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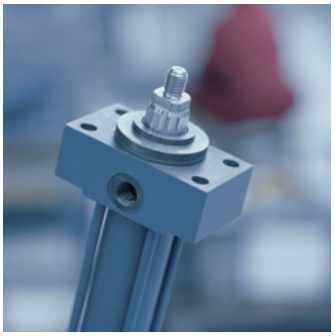
Rexroth
Bosch Group

GoTo USA
Focused Delivery Program
Hydraulics

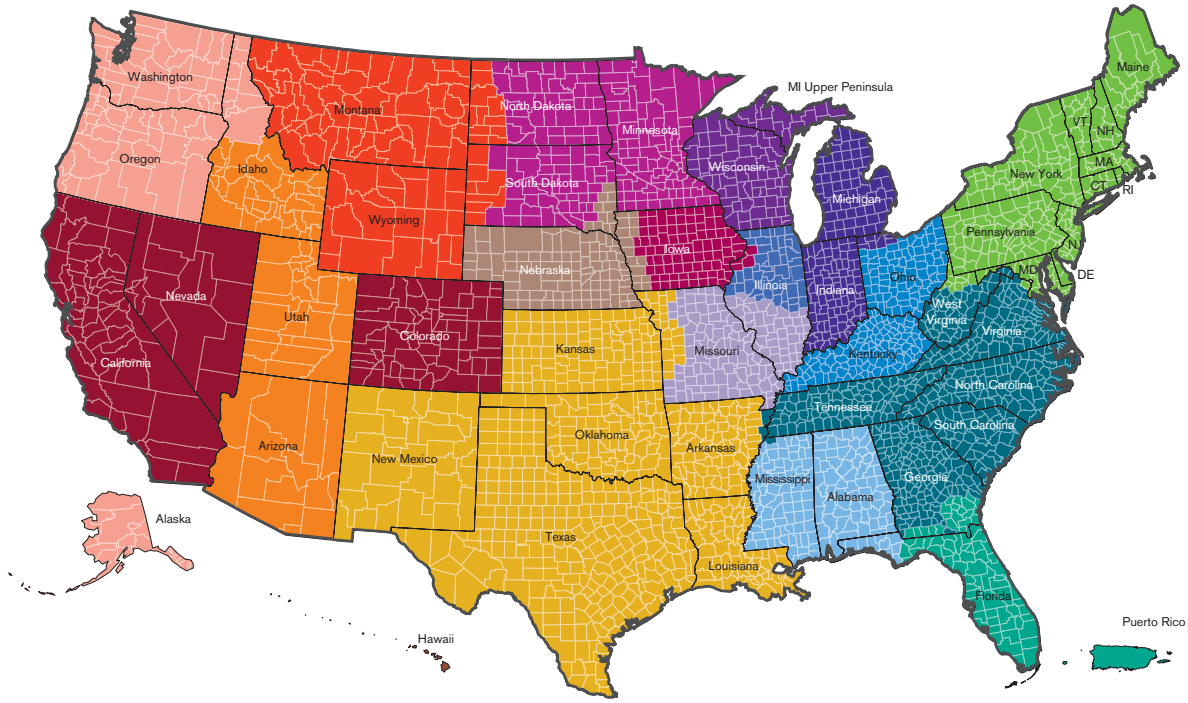


Hydraulics GoTo Catalog

Bosch Rexroth is pleased to present hydraulics as part of our GoTo Focused Delivery Program. The GoTo Program provides you with fast delivery of the industry's most widely used hydraulics products, and lets you "go to" quick reference internet pages for more information, technical specifications, and ordering details.

For additional information on the GoTo Program and a complete list of other quality Rexroth products available in the focused delivery program go to:
www.boschrexroth-us.com/GoTo

Bosch Rexroth Corporation, Hydraulics Distributor List



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www.airlinehyd.com

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GoTo Focused Delivery Program

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GoTo **Program Delivery Conditions**

- Current GoTo program content and guidelines are specified at: **www.boschrexroth-us.com/GoTo**
- How to Order: Please state clearly for each line item on the purchase order that GoTo lead times are required.
- Orders for products exceeding the current program quantity limits may be acknowledged with extended delivery.
- Items listed in this catalog will be shipped from your local distributor or Bosch Rexroth location within the time frame stated in this catalog. For urgent delivery requirements, please check with your local sales office.
- Order via the Rexroth Distributors listed on the inside front cover.

All items subject to prior sale. It is advisable to confirm critical delivery requirements at time of order. All sales subject to Bosch Rexroth Corporation Terms & Conditions of sales, which you can read at:

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Bosch Rexroth reserves the right to make program changes at any time without notice.

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Liability:

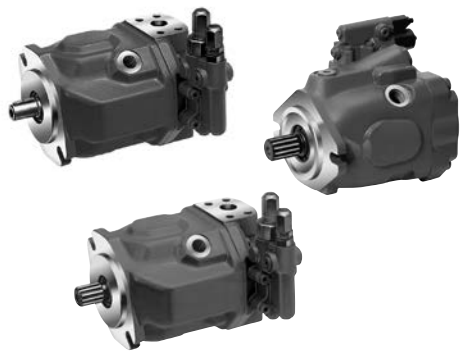
In no event can the manufacturer accept warranty or liability claims for damages resulting from improper use or misuse of the equipment or as a result of changes made to the equipment other than those authorized by the manufacturer. The manufacturer will accept no claim in which non-original spare parts have been used.

GoTo Focused Delivery Program: Pumps and Motors

Variable displacement pumps

(A)A10VSO (Series 31), A10VO (Series 31), & A10V(S)O (Series 52)

Many new sizes available!



Variable displacement axial piston pump (A)A10V(S)O in swashplate design is available for open circuit applications. It can be used in both mobile and industrial applications. Flow is proportional to the drive speed and the displacement. By adjusting the position of the swashplate, it is possible to steplessly vary the flow. Multiple forms of pressure, flow or electrohydraulic controls are available.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 10 to 140
- Axial piston swashplate design
- Open circuit
- Series 31 (sizes 18, 28, 45, 71, 100, 140), Series 52 (sizes 10, 28, 45, 60, 85)
- Combination of pumps of up to the same size can be mounted to the through-drive (not with size 10)

Detailed information:

- Series 31:
  RA92711
  RA92701
- Series 52:
  RA92703

Technical Data

Size – Series 31				**18**	**28**	**45**	**71**	**100**	**140**
Nominal pressure		p_N	bar (PSI)	280 (4000)	280 (4000)	280 (4000)	280 (4000)	280 (4000)	280 (4000)
Peak pressure		p_{max}	bar (PSI)	350 (5100)	350 (5100)	350 (5100)	350 (5100)	350 (5100)	350 (5100)
Displacement		$V_{g\ max}$	cm^3 (in^3)	18 (1.10)	28 (1.71)	45 (2.75)	71 (4.33)	100 (6.10)	140 (8.54)
Speed [1]		n_{max}	rpm	3300	3000	3000	2200	2000	1800
Flow	at n_{max}	$q_{V\ max}$	l/min (GPM)	59 (15.59)	84 (22.19)	117 (31)	156 (41)	200 (53)	252 (67)
Power	Δp = 280 bar (4000 PSI)	P_{max}	kW	28	39	55	73	93	118
Torque	Δp = 280 bar (4000 PSI)	T_{max}	Nm (lb-ft)	80 (59)	125 (92)	200 (148)	316 (233)	445 (328)	623 (460)
Weight (approx.)		m	kg (lbs.)	12 (26)	15 (33)	21 (46)	33 (73)	45 (99)	60 (132)

Size – Series 52				**10**	**28**	**45**	**60**	**85**
Nominal pressure		p_N	bar (PSI)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	250 (3600)
Peak pressure		p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)	315 (4600)	315 (4600)
Displacement		$V_{g\ max}$	cm^3 (in^3)	10.5 (0.64)	28 (1.71)	45 (2.75)	60 (3.66)	85 (5.18)
Speed [1]		n_{max}	rpm	3600	3000	2600	2700	2500
Flow	at n_{max}	$q_{V\ max}$	l/min (GPM)	38 (10.04)	84 (22)	117 (31)	163 (43)	212 (55)
Power	Δp = 250 bar (3600 PSI)	P_{max}	kW	16	35	49	68	89
Torque	Δp = 250 bar (3600 PSI)	T_{max}	Nm (lb-ft)	42 (31)	111 (82)	179 (132)	238 (176)	338 (247)
Weight (approx.)		m	kg (lbs.)	8 (18)	14 (31)	18 (40)	22 (49)	34 (75)

1) The values are valid at an absolute pressure of 1 bar (14.50 PSI) in suction port S.

See index Pages 171–175 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps and Motors

External gear pump
AZPF and AZPN

Bosch Rexroth has been involved with the design, development and manufacture of gear pumps for many decades. Well-proven designs, the use of specially developed materials, constant testing and sophisticated mass production techniques ensure products of the very highest quality.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTo***pumps***

Features

- AZPF – sizes 4 to 28 cc; AZPN – sizes 20 to 36 cc
- Plain bearings for high loads
- Drive shafts according to ISO or SAE and customer-specific standards
- Combination of several pumps possible
- Line connections: connecting flanges or female threads

Detailed information:
- RA10097

Technical Data

AZPF – Size				4	5	8	11	14	16	19	22	25	28
Displacement		$V_{g\ max}$	cm^3 (in^3)	4.1 (0.26)	5.6 (0.35)	8.2 (0.51)	11.3 (0.71)	14.3 (0.89)	16.5 (1.03)	19.5 (1.22)	22.9 (1.43)	25.4 (1.59)	28.5 (1.78)
Operating pressure, continuous		$p_{1\ max}$	bar (PSI)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	210 (3045	180 (2610)	200 (2900)	170 (2500)
Operating pressure, intermittent		p_3	bar (PSI)	280 (4100)	280 (4100)	280 (4100)	280 (4100)	280 (4100)	280 (4100)	230 (3335)	210 (3045)	220 (3200)	190 (2800)
Max. speed	at p_1	n	rpm	3500	3500	3500	3000	2500	2500	2500	2000	2000	2000
Min. speed	at p_1	n	rpm	600	500	500	500	500	500	500	500	500	500

Note:
– Applicable to an oil viscosity of 25 mm^2/s (116 SUS)and an oil temperature of 55 °C (131 °F) with HLP 46.
– The pressure in the suction port is 0.7 bar (10.2 PSI) min and 3 bar (43.5 PSI) max absolute.

AZPN – Size			20	22	25	28	32	36
Displacement	cm^3/rev (in^3/rev)		20.4 (1.24)	23.1 (1.41)	25.8 (1.57)	28.4 (1.73)	32.4 (1.98)	36.4 (2.22)
Inlet pressure		bar (PSI)	min. 0.7; max. 3 (min. 10.2; max 43.5) [absolute]					
Max. continuous pressure	p_1	bar (PSI)	230 (3335)	230 (3335)	230 (3335)	210 (3045)	180 (2610)	160 (2610)
Max. intermittent pressure	p_2	bar (PSI)	250 (3625)	250 (3625)	250 (3625)	230 (3335)	200 (2900)	180 (2610)
Max. peak pressure	p_3	bar (PSI)	270 (3915)	270 (3915)	270 (3915)	250 (3625)	220 (3190)	200 (2900)
Min. rotational speed ≤ 100		rpm	500	500	500	500	500	500
Max. rotational speed	p_1	rpm	2500	2500	2500	2300	2300	2100
	p_2	rpm	3000	3000	3000	2800	2800	2600

See index Pages 175–176 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps and Motors

Variable vane pumps, pilot operated
PV7

The PV7 is a variable displacement vane pump used quite extensively for low to mid-pressure applications for numerous market segments such as machine tool and packaging industries. The PV7 pump utilizes a journal bearing design and pivoting control pistons to provide a low noise and durable product for the industrial hydraulic market.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- 8 displacement sizes ranging from 14-150cc.
- All pumps are supplied with through drive capable shaft that is capped off with an aluminum rear cover
- PV7 pumps can be incorporated into combinations with many other Rexroth products including internal and external gear pumps, radial piston pumps, fixed and variable vane pumps and axial piston pumps.
- Multiple control options are available such as pressure control, flow control, solenoid unloading control, lockable controls, etc.
- PV7 design is European based, 4-bolt DIN mounting pilot and metric shaft

Detailed information:
- RE10515

Technical Data

Size		**10**		**16**		**25**		**40**		**63**		**100**	
Size	cm^3 (in^3)	14 (0.85)	20 (1.22)	20 (1.22)	30 (1.83)	30 (1.83)	45 (2.75)	45 (2.75)	71 (4.27)	71 (4.27)	94 (5.74)	118 (7.20)	150 (9.15)
Flow	L/min (GPM)	21 (5.5)	29 (7.7)	29 (7.7)	43.5 (11.5)	43.5 (11.5)	66 (17.4)	66 (17.4)	104 (27.5)	108 (28.5)	136 (35.9)	171 (45.2)	218 (57.6)
Max. Pressure (absolute)													
Inlet	bar (PSI)	0.8 to 2.5 (11.6 to 36.26)											
Outlet	bar (PSI)	160 (2320)	100 (1450)	160 2320)	80 (1160)	160 (2320)	80 (1160)	160 (2320)	80 (1160)	160 (2320)	80 (1160)	160 (2320)	80 (1160)
Speed range		900 to 1800 rpm											
Direction of rotation		Clockwise (viewed to shaft end)											

See index Page 176 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps and Motors

Vane pumps
VPV

Rexroth continues to offer advanced variable vane pump technology. Market conditions favor hydraulic components that operate at low noise levels without sacrificing efficiency or durability. VPV pumps feature an outstanding response to the needs of the market today and for the future.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 16 to 164
- Flows from 30 to 287 L/min (7.6 to 75.8 GPM) in single pumps
- Available in combination with other VPV pumps and Rexroth gear pumps
- Through-drive horsepower transfer is 100% to the second pump
- VPV pumps are available with through-shaft versions for quick combinations
- Pressures to 210 bar (3050 PSI)
- Continuous speeds from 1000 to 1800 rpm
- A variety of fluids can be used: mineral oil, phosphate ester, and environmentally friendly fluids
- Controls include standard pressure compensation, remote pressure compensation, load sense, solenoid 2-pressure, and solenoid vented

Detailed information:
- 9535233724
- 9535233782
- * 9535233785

Technical Data

Size	**in³/rev (cc/rev)**	**1.0 (16)**	**1.5 (25)**	**2.0 (32)**	**2.75 (45)**	**3.84 (63)**	**4.88 (80)**	**6.0 (100)**	**7.93 (130)**	**10.0 (164)**
Flow [1]	L/min GPM	30 (7.6)	43 (11.4)	57 (15.1)	79 (20.8)	110 (29.1)	140 (37.0)	172 (45.4)	227 (60.0)	287 (75.8)
Max. Pressure	bar (PSI)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)
Speed range		1000 to 1800 rpm								
Mounting		Flange to ISO 3019/1								
Mount Position		Any								
Rotation		RH								
Sound Pressure Level [2]		67	69	69	68	69	71	74	76	77

1) 1750 rpm in GPM.

2) dB(A) at 3000 PSI, 1750 rpm, full fl ow in a hemi-anechoic chamber with microphone placed 1 meter away at 7 discrete locations. Sound pressure levels are spacially and time weighted averaged.

See index Page 176 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps and Motors

Fixed displacement vane pumps
PVV

Rexroth PVV product is a fixed displacement vane pump based on the cartridge principle. PVV pumps can be used in a wide spectrum of applications, from low pressure filter / cooler loops to higher pressure systems such as presses and injection molding machines. PVV fixed vane pumps are just one of the many pump options available from the extensive Rexroth portfolio of products.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- 20 different displacement sizes ranging from 18cc/rev (1.1 cu-in/rev) to 193cc/rev (11.8 cu-in/rev)
- Hydraulically balanced design provides long bearing life
- Cartridge replacement simplifies service and repair
- Cartridges are interchangeable with competitive designs
- Displacement changes can be easily performed by swapping cartridges
- Rotational flexibility of port locations optimizes customer interface
- PVV pumps can be coupled to other Rexroth vane, piston and gear products

Detailed information:
- RE10335

Technical Data

Mounting style		Flange mounting to SAE J744									
Pipe connections		SAE flange version (fixing threads: UNC)									
Direction of rotation		Clockwise and counter-clockwise									
Drive		Direct, co-axial drive; radial and axial forces cannot be taken up									
Build sizes 1 and 2 (pump cartridge)		**BS1**					**BS2**				
Nominal size (≈ V in cm³)	NS	18	27	36	40	46	40	45	55	60	68
Max. flow at n = 1500 min⁻¹, p = 0.7 bar (10 PSI) and ν = 25 mm²/s	l/min (GPM)	25 (6.6)	39 (10.3)	53 (14.0)	59 (15.6)	70 (18.5)	59 (15.6)	66 (17.4)	80 (21.1)	89 (23.5)	100 (26.4)
Outlet continuous p_{max} for PVV	bar (PSI)	210 (3000)			160 (2300)	140 (2000)	175 (2500)				
Weight	kg (lb)	12 (26.4)					14.8 (32.6)				
Speed at 1 bar (14.5 PSI)	RPM	600–1800									
Build sizes 4 and 5 (pump cartridge)		**BS4**					**BS5**				
Nominal size (≈ V in cm³)	NS	69	82	98	113	122	139	154	162	183	193
Max. flow at n = 1500 min⁻¹, p = 0.7 bar (10 PSI) and ν = 25 mm²/s	l/min (GPM)	101 (26.7)	120 (31.7)	141 (37.2)	167 (44.1)	177 (46.8)	203 (53.6)	223 (58.9)	234 (61.8)	267 (70.5)	285 (75.3)
Outlet continuous p_{max} for PVV	bar (PSI)	175 (2500)					175 (2500)				
Weight	kg (lb)	23 (50.7)					34 (74.9)				
Speed at 1 bar (14.5 PSI)	RPM	600–1800									

See index Page 177 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps and Motors

Radial piston pump, fixed displacement
R4

Hydraulic pumps of type R4 are integral check valve-controlled, self-priming radial piston pumps with fixed displacement. R4 pumps are designed for high pressure operation and long life.

For complete engineering and design information:
GoTo ***www.boschrexroth-us.com/***GoTo***pumps***

Features

- Sizes 1.6 to 20
- Radial piston pump with 3, 5 or 10 pistons
- Self-priming, valve-controlled
- Long bearing life due to hydro-dynamically lubricated plain bearings
- Optional combination with variable displacement vane and axial piston pumps

Detailed information:
- RA11263

Technical Data

Size			1.6	2.0	2.5	3.15	4.0	6.3	8.0
Displacement	$V_{g\ max}$	cm^3 (in^3)	1.51 (0.09)	2.14 (0.13)	2.59 (0.16)	3.57 (0.22)	4.32 (0.26)	7.14 (0.44)	8.63 (0.53)
Operating pressure	p_{max}	bar (PSI)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)
Power [1]	***P***	kW (HP)	2.9 (3.89)	4.1 (5.50)	4.9 (6.57)	6.8 (9.12)	8.1 (10.86)	13.6 (18.24)	16.1 (21.59)
Speed	***n***	rpm	1000 to 2000						
Weight (approx.)	***m***	kg (lbs)	9.2 (20.3)	9.2 (20.3)	9.2 (20.3)	12.4 (27.3)	12.4 (27.3)	16.4 (36.1)	16.4 (36.1)

Size			3.15	5.0	6.3	8.0	10.0	16.0	20.0
Displacement	$V_{g\ max}$	cm^3 (in^3)	3.39 (0.21)	4.82 (0.29)	5.83 (0.36)	8.03 (0.49)	9.71 (0.59)	16.07 (0.98)	19.43 (1.19)
Operating pressure	p_{max}	bar (PSI)	500 (7250)	500 (7250)	500 (7250)	500 (7250)	500 (7250)	500 (7250)	500 (7250)
Power [1]	***P***	kW (HP)	4.7 (6.30)	6.7 (8.98)	7.9 (10.59)	10.9 (14.62)	12.9 (17.30)	21.2 (28.43)	25.3 (33.93)
Speed	***n***	rpm	1000 to 2000						
Weight (approx.)	***m***	kg (lbs)	9.2 (20.3)	9.2 (20.3)	9.2 (20.3)	12.4 (27.3)	12.4 (27.3)	16.4 (36.1)	16.4 (36.1)

1) At maximum continuous operating pressure and n = 1450 rpm.

See index Page 177 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps and Motors

Radial piston pump, fixed displacement

R4-Mini

Hydraulic pumps of type R4 “mini” are integral check valve-controlled, self-priming radial piston pumps with fixed displacement. R4 mini pumps are designed for low flow, high pressure operation and long life.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 0.4 to 2.0
- Radial piston pump with 3 pistons
- Very compact build
- Self-priming, valve-controlled
- Long service life due to hydro-dynamically lubricated plain bearings
- Optional combination with variable displacement vane pumps

Detailed information:
- RA11260

Technical Data

Size			**0.4**	**0.63**	**1**	**1.6**	**2**
Displacement	$V_{g\ max}$	cm^3 (in^3)	0.4 (0.024)	0.63 (0.038)	1 (0.061)	1.6 (0.098)	2 (0.122)
Operating pressure	p_{max}	bar (PSI)	700 (10,150)	700 (10,150)	450 (6500)	250 (3600)	175 (2500)
Power [1]	***P***	kW (HP)	0.66 (0.89)	1.15 (1.54)	1.14 (1.53)	1.06 (1.42)	0.86 (1.15)
Speed	***n***	rpm	3400	3000	2000	2000	2000
Weight (approx.)	***m***	kg (lbs)	2.6 (5.73)	2.6 (5.73)	2.6 (5.73)	2.6 (5.73)	2.6 (5.73)

1) At maximum continuous operating pressure and n = 1450 rpm.

See index Page 177 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pump and Motors

Variable Displacement Motors
(A)A6VM

Variable displacement motor (A)A6VM in axial tapered piston rotary group of bent-axis design is available for open and closed circuit applications. It can be used in both mobile and industrial applications. The output speed is dependent on the flow of the pump and the displacement of the motor. The output torque increases with the pressure differential between the high-pressure and low-pressure side and with increasing displacement.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 80, 107, 160
- Series 6
- Axial tapered piston, bent-axis design
- For use in mobile and stationary applications
- Wide control range, high speeds and torque
- Compact, robust motor with long service life
- Cost savings through elimination of gear shifts and possibility of using smaller pumps
- Wide selection of control devices; good starting characteristics

Detailed information:
- Series 6: RE91604

Technical Data

Size			80	107	160
Nominal pressure		bar (PSI)	400 (5800)	400 (5800)	400 (5800)
Peak pressure		bar (PSI)	450 (6500)	450 (6500)	450 (6500)
Displacement [1]	$V_{g\ max}$	cm^3 (in^3)	80 (4.88)	107 (6.53)	160 (9.76)
	$V_{g\ 0}$	cm^3 (in^3)	0 (0)	0 (0)	0 (0)
Max. speed [2] (while adhering to the maximum permissible flow)	n_{max} at $V_{g\ max}$	rpm	3900	3550	3100
	n_{max} at $V_g < V_{g\ x}$	rpm	6150	5600	4900
	$V_{g\ x} = 0.63 \times V_{g\ max}$	cm^3 (in^3)	51 (3.11)	68 (4.15)	101 (6.16)
	n_{max} at $V_{g\ 0}$	rpm	7350	6300	5500
Max. flow	$q_{V\ max}$	L/min (GPM)	312 (82)	380 (100)	496 (131)
Max. torque	T_{max} at $V_{g\ max}$ [3]	Nm (lb-ft)	509 (375)	681 (502)	1019 (752)
Rotary stiffness					
$V_{g\ max}$ to $V_{g/2}$	c_{min}	Nm/rad (lb-ft/rad)	15500 (11432)	21000 (15489)	35300 (26036)
$V_{g/2}$ to $0_{(interpolated)}$	c_{max}	Nm/rad (lb-ft/rad)	47900 (35329)	65200 (48089)	105000 (77444)
Moment of inertia for rotary group	JTW	kgm^2 ($lb\text{-}ft^2$)	0.0080 (0.190)	0.0127 (0.301)	0.0253 (0.600)
Maximum angular acceleration	a	rad/s^2	24000	19000	11000
Filling capacity	V	L (Gal)	1.2 (0.32)	1.5 (0.40)	2.4 (0.63)
Mass (approx.)	m	kg (lbs.)	34 (75)	47 (104)	64 (141)

1) The minimum and maximum displacement are infinitely adjustable, see ordering code, page 3. (default settings for sizes 250 to 1000 unless specified in the order: $V_{g\ min} = 0.2 \bullet V_{g\ max}$, $V_{g\ max} = V_{g\ max}$).

2) Vg x = 0.75 x Vg max (appr.)

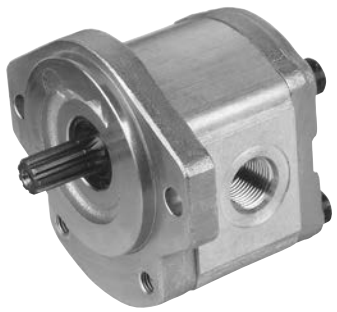
3) Sizes 28 to 200: $\Delta p = 400$ bar (5800 PSI); sizes 250 to 1000: $\Delta p = 350$ bar (5100 PSI)

Caution: Exceeding the permissible limit values may result in a loss of function, a reduction in service life or in the destruction of the axial piston unit. Other permissible limit values with respect to speed variation, reduced angular acceleration as a function of the frequency and the permissible startup angular acceleration (lower than the maximum angular acceleration) can be found in data sheet RE90261.

See index Page 178 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pump and Motors

External gear motors
AZMF



Bosch Rexroth has been involved with the design, development and manufacture of gear motors for many decades. Well-proven designs, the use of specially developed materials, constant testing and sophisticated mass production techniques ensure products of the very highest quality.

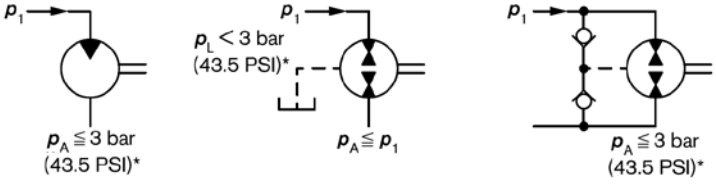
For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 8 to 22 cc
- High pressures with small installation space and low weight
- Wide speed ranges
- Wide viscosity and temperature ranges
- Reversible motors for 2- and 4-quadrant operation
- Plain bearings for high loads
- Consistently high quality owing to large-scale production
- Many design variants available

Detailed information:
- RA14025

Technical Data

Size			008	011	014	016	019	022
Displacement		cm^3/rev (in^3/rev)	8.2 (0.50)	11.3 (0.69)	14.3 (0.87)	16.5 (1.01)	19.5 (1.19)	22.9 (1.40)
Max. continuous pressure	p_1	bar (PSI)	210 (3045)	210 (3045)	210 (3045)	210 (3045)	180 (2610)	180 (2610)
Max. starting pressure	p_2	bar (PSI)	280 (4060)	280 (4060)	280 (4060)	280 (4060)	210 (3045)	210 (3045)
Min. rotational speed Max. rotational speed	p_1	min^{-1}	500 4000	500 3500	500 3000	500 3000	500 3000	500 3000
Motor outlet pressure Leakage-oil line pressure	p_A p_L	bar (PSIA)						

*) Short-term when starting 10 bar (145 PSI)

See index Page 177 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pump and Motors

Radial Piston Motors
MCR

The MCR radial piston motors are low-speed high-torque hydraulic motors which operate according to the multiple-stroke principle. The relationship between roll diameter and cam profile is optimized inside the central power unit. This results in the best possible balance of forces between piston and cam path and simultaneously extends the service life. The step-piston power unit or high-displacement power unit yields a very compact drive unit with high power density. MCR motors can be used both in open as well as in closed circuits.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 365, 400, 820
- Compact, robust design
- Uniform concentric running, even at very low speeds
- Reversible
- High Radial forces permissible on the output shaft
- Sealed tapered roller bearing

Detailed information:
- MCR 03: RE15205
- MCR 05: RE15206

Technical Data

Frame Size 3	Size		365	400
Swept Volume	$V_{g\ max}$	cm^3	365	400
Torque	T_{max}	Nm	2105	2307
Speed, intermittent	n_{max}	rpm	280	260
Pressure Difference	Δp_{max}	bar	400	400
Weight	m	kg	20	20

Frame Size 5	Size		820
Swept Volume	$V_{g\ max}$	cm^3	820
Torque	T_{max}	Nm	4860
Speed, intermittent	n_{max}	rpm	220
Pressure Difference	Δp_{max}	bar	400
Weight	m	kg	39

See index Page 177 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pump and Motors

Fixed displacement motors
(A)A2FM

Fixed displacement motor (A)A2FM in axial tapered piston rotary group of bent-axis design is applicable for closed and open circuit applications. It can be used in both mobile and stationary applications. The output speed is dependent on the flow of the pump and the displacement of the motor. The output torque increases with the pressure differential between the high-pressure and the low-pressure side. The (A)A2FM motor has excellent starting torque efficiency.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 28, 32, 45, 63, 80, 107, 125, 180
- Series 6
- Axial tapered piston, bent-axis design
- Finely graduated sizes permit far-reaching adaptation to the drive case
- High power density within small dimensions
- High total efficiency
- Optional integrated counterbalance valve, pressure relief valve, or built-on flushing and boost valve
- Nominal Pressure

Detailed information:
- Series 6: RE91001

Technical Data

Size				28	32	45	63	80	107	125	180
Nominal pressure			bar (PSI)	400 (5800)							
Peak pressure			bar (PSI)	450 (6500)							
Diplacement		V_g	cm^3 (in^3)	28.1 (1.71)	32 (1.95)	45.6 (2.78)	63 (3.84)	80.4 (4.91)	106.7 (6.51)	125 (7.63)	180 (10.98)
Max. speed		n_{max}	rpm	6300	6300	5600	5000	4500	4000	4000	3600
		$n_{max\ intermit.}$ [1]	rpm	6900	6900	6200	5500	5000	4400	4400	4000
Max. flow		$q_{V\ max}$	l/min (GPM)	176 (46.6)	201 (52.2)	255 (67.4)	315 (83.1)	360 (95.6)	427 (112.7)	500 (132.1)	648 (171.1)
Torque at	$\Delta p = 350$ bar ($\Delta p = 5100$ PSI)	T	Nm (lb-ft)	156 (115)	178 (132)	254 (188)	350 (259)	445 (332)	595 (440)	697 (516)	1001 (742)
	$\Delta p = 400$ bar ($\Delta p = 5800$ PSI)	T	Nm (lb-ft)	178 (131)	204 (150)	290 (213)	400 (295)	508 (377)	680 (500)	796 (587)	1144 (844)
Rotary stiffness			Nm/° (lb-ft/°)	230 (170)	230 (170)	330 (243)	440 (325)	670 (494)	880 (649)	880 (649)	1350 (996)
Moment of inertia for rotary group		J_{TW}	kgm^2 ($lbs\text{-}ft^2$)	0.0012 (0.0285)	0.0012 (0.0285)	0.0024 (0.0569)	0.0042 (0.0997)	0.0072 (0.1708)	0.0116 (0.2753)	0.0116 (0.2753)	0.0220 (0.5221)
Filling capacity		V	L (gal)	0.20 (0.053)	0.20 (0.053)	0.33 (0.087)	0.45 (0.119)	0.55 (0.145)	0.8 (0.211)	0.8 (0.211)	1.1 (0.291)
Mass (approx.)		m	kg (lbs)	9.5 (21)	9.5 (21)	13.5 (30)	18 (40)	23 (51)	32 (71)	32 (71)	45 (99)

[1]) intermittent maximum speed: overspeed at discharge and over-running travel operations, $t < 5$ sec. and $\Delta p < 150$ bar (2200 PSI)
[2]) $\Delta p = 315$ bar (4600 PSI)

Caution: Exceeding the permissible limit values may result in a loss of function, a reduction in service life or in the destruction of the axial piston unit. Other permissible limit values with respect to speed variation, reduced angular acceleration as a function of the frequency and the permissible startup angular acceleration (lower than the maximum angular acceleration) can be found in data sheet RE90261.

See index Page 178 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pump and Motors

High Torque Vane Motors

Rineer MVS15 Series

Bosch Rexroth Rineer MVS15 Series Hydraulic Vane Motors provide high torque at start & stall, medium speed, and reliability in demanding applications. The patented Vane-Crossing-Vane design allows for high power-to-weight ratio, improved mechanical & volumetric efficiency. The rotating group is hydraulically balanced internally, resulting in no significant loads induced on the motor bearings which contribute to long service life. A variety of displacements & configurations are available on the GoTo Program.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Patented Vane-Crossing-Vane design
- High torque at start & stall
- Speed to 2000 rpm continuous & 2600 rpm intermittent
- Operating pressure to 207 bar continuous
- Can conform to SAE C mounting specification
- High power-to-weight ratio
- Reliability in heavy duty & demanding applications
- Variety of displacements

Detailed information:
- RE10540

Technical Data

Code 61 Series	Displacement	Pressure		Speed		Torque @ 207 bar
	cm^3/rev (in^3/rev)	Continuous bar (psi)	Intermittent bar (psi)	Continuous (rpm)	Intermittent (rpm)	Continuous Nm (lb-ft)
R986V00875	213 (13)	207 (3000)	241 (3500)	1500	2000	580 (428)
R986V00894	246 (15)	207 (3000)	241 (3500)	1500	2000	690 (509)
R986V00905	246 (15)	207 (3000)	241 (3500)	1500	2000	690 (509)
R986V00909	246 (15)	207 (3000)	241 (3500)	1500	2000	690 (509)
R986V00941	98 (6)	207 (3000)	241 (3500)	2000	2600	248 (183)
R986V00974	131 (8)	207 (3000)	241 (3500)	1800	2600	372 (274)
R986V00983	156 (9.5)	207 (3000)	241 (3500)	1700	2300	418 (308)

See index Page 178 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pump and Motors

High Torque Vane Motors

Rineer MVS37 Series

Bosch Rexroth Rineer MVS37 Series Hydraulic Vane Motors provide high torque at start & stall, medium speed, and reliability in demanding applications. The patented Vane-Crossing-Vane design allows for high power-to-weight ratio, improved mechanical & volumetric efficiency. The rotating group is hydraulically balanced internally, resulting in no significant loads induced on the motor bearings which contribute to long service life. A variety of displacements & configurations are available on the GoTo Program.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Patented Vane-Crossing-Vane design
- High torque at start & stall
- Speed to 1000 rpm continuous & 1200 rpm intermittent
- Operating pressure to 310 bar continuous
- Can conform to SAE D mounting specification
- High power-to-weight ratio
- Reliability in heavy duty & demanding applications
- Variety of displacements

Detailed information:
- RE10550

Technical Data

	Displacement	Pressure		Speed		Torque @ 207 bar
		Continuous	Intermittent	Continuous	Intermittent	Continuous
Code 61 Series	cm^3/rev (in^3/rev)	bar (PSI)	bar (PSI)	(rpm)	(rpm)	Nm (lb-ft)
R986V00435	328 (20)	207 (3000)	241 (3500)	1000	1200	979 (722)
R986V00441	328 (20)	207 (3000)	241 (3500)	1000	1200	979 (722)
R986V00451	426 (26)	207 (3000)	241 (3500)	800	1000	1247 (920)
R986V00452	426 (26)	207 (3000)	241 (3500)	800	1000	1247 (920)
R986V00454	426 (26)	207 (3000)	241 (3500)	800	1000	1247 (920)
R986V00469	524 (32)	207 (3000)	241 (3500)	700	950	1550 (1143)
Code 62 Series						
R986V00693	328 (20)	310 (4500)	345 (5000)	1000	1200	1497 (1104)
R986V00696	328 (20)	310 (4500)	345 (5000)	1000	1200	1497 (1104)
R986V00697	328 (20)	310 (4500)	345 (5000)	1000	1200	1497 (1104)

See index Page 178 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Check Valves

Check valves
S

S model check valves are direct operated, line contact seat, guided poppet check valves. Guided poppets vs a “ball” provide more stable operation, more assurance for a line contact seat, and reductions in flow noise. The line contact seat is an interference fit where the seat areas are at slight differential angles to permit a true line contact seat vs a matched mating surface.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10 to 30
- For threaded connection
- Leak-free isolation in one direction
- Port connection: SAE 8 – SAE 24

Detailed information:
- RE20375

Technical Data

General					
Size		**10**	**15**	**25**	**30**
Weight	kg (lbs)	0.3 (0.66)	0.5 (1.1)	2.0 (4.4)	2.5 (5.5)
Hydraulic					
Maximum operating pressure	bar (PSI)	315 (4600)			
Opening pressure		See characteristic curves in data sheet RE20375			
Maximum flow		See characteristic curves in data sheet RE20375			
Hydraulic fluid		Mineral oil (HL, HLP) according to DIN 51524; Fast bio-degradable hydraulic fluids according to VDMA 24568 (see also RE90221); HETG (rape seed oil); HEPG (polyglycols); HEES (synthetic esters); other hydraulic fluids on inquiry			
Hydraulic fluid temperature range	°C (°F)	–30 to +80 (–22 to +176)			
Viscosity range	mm^2/s (SUS)	2.8 to 500 (12.99 to 2317)			
Max. permissible degree of contamination of the hydraulic fluid, cleanliness class to ISO 4406 (c)		Class 20/18/15 [1)]			

See index Page 178 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Check Valves

Check valves, cartridge type
M-SR

M-SR check valves are cartridge assemblies for use in manifold applications. Flow capacities of 8 GPM – 106 GPM over six cartridge sizes permit a broad application potential. Both the right angle version “KE” or straight through version “KD” feature guided poppets with varying biasing spring options. M-SR check valves can be secured in a manifold utilizing a BSP or SAE plug (pressure limits applicable). The cavity is a relatively straight bore, therefore complicated tooling is not required.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10 to 30
- For block installations:
  – Right-angled valve (“KE”)
  – Straight valve (“KD”)
- Leak-free isolation in one direction
- Plug screw with pipe thread or metric ISO thread
- Various cracking pressures

Detailed information:
- RE20380

Technical Data

Size				**8**	**10**	**15**	**25**	**30**
Operating pressure		p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)	315 (4600)	315 (4600)
Cracking pressure			bar (PSI)	Without spring: 0.2 (2.90); 0.5 (7.25); 1.5 (21.76); 3.0 (43.51); 5.0 (72.52)				
Flow	“KE”	$q_{V\ max}$	l/min (GPM)	35 (9.20)	50 (13.21)	120 (31.70)	300 (79.25)	400 (105.67)
	“KD”	$q_{V\ max}$	l/min (GPM)	35 (9.20)	50 (13.21)	120 (31.70)	300 (79.25)	400 (105.67)

See index Pages 178–179 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Check Valves

Filling valve – sandwich plate
ZSF

The valve type ZSF is a pilot operated check valve in sandwich plate design. It is used for the leakage-free isolation of pressurized working circuits (e.g. pressing cylinders). Due to its favorable flow characteristics and the low cracking pressure of the main poppet, it is particularly suitable on presses.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 32 to 200
- Pilot operated check valve in sandwich plate design
- With or without pre-opening, optional
- Control by built-on directional spool valve or directional seat valve, optional
- Integrated high-pressure connection (size 32 to 160
- Integrated throttle check valve (size 200)

Detailed information:
- RE20478

Technical Data

Size			30
Maximum operating pressure	– Port B, P	bar (PSI)	350 (5100)
	– Port X	bar (PSI)	150 (2175)
	– Port A	bar (PSI)	16 (232)
Control pressure		bar (PSI)	~0.12 (~1.74)

See index Page 179 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Check Valves

Check valve, hydraulically pilot operated
SV & SL

The SV and SL valves are hydraulic pilot operated check valves of poppet type design which may be opened to permit flow in the reverse direction. These valves are used for the isolation of operating circuits which are under pressure, i.e. as a safe guard against the lowering of a load when a line break occurs or against creeping movement of hydraulically locked actuators. The valve basically comprises of the housing, the poppet, a compression spring, the control spool as well as optional decompression feature as a ball poppet valve.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10 to 30
- For subplate mounting
- Connection location to ISO 5781
- With internal SV or external SL pilot oil drain
- With or without decompression feature, optional
- Version with decompression feature for dampened decompression (minimizing possible pressure shocks)

Detailed information:
- RE21468

Technical Data

Size			10	20	30
Maximum operating pressure	p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)
Control pressure		bar (PSI)	5 to 315 (72.5 to 4600)	5 to 315 (72.5 to 4600)	5 to 315 (72.5 to 4600)

See index Page 179 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Check Valves

Check valves – sandwich module design
Z1S

Valve type Z1S is a direct operated check valve of sandwich plate design. They provide line contact closure in one direction and allows free flow in the opposite direction. The check function can be in one of several ports, or dual ports. The check function orientation can also be defined by model coding.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Size 6 and 10
- For mounting:
  - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
  - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Various isolating functions
- Various cracking pressures
- Check valve made of carbon fiber-reinforced plastic
- Excellent compatibility with various hydraulic fluids

Detailed information:
- Size 6: RE21534
- Size 10: RE21537

Technical Data

Size			6	10
Operating pressure	p_{max}	bar (PSI)	350 (5100)	315 (4600)
Cracking pressure		bar (PSI)	0.5 (7.25), 1.5 (21.75), 3.0 (43.5), 5.0 (72.5)	0.5 (7.25), 3.0 (43.5), 5.0 (72.5)
Flow	$q_{V\ max}$	l/min (GPM)	40 (10.6)	100 (26.4)

See index Page 179 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Check Valves

Piloted-to-open check valves – sandwich module
Z2S

Models Z2S are pilot operated check valves in a sandwich plate design. They provide line contact closure in one or two actuator ports, even during idle periods. Piloted to open, utilizing a pressure signal from the opposite actuator port provides a self-contained function.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 6 to 22
- Porting pattern according to ISO 4401-3, 5, 7, 8; NFPA T3.5.1M R1, and ANSI B93.7 D 03, D 05, D 07, D 08
- For the leak-free isolation of one or two actuator ports
- Various cracking pressures

Detailed information:
- Size 6: RE21548
- Size 10: RE21553
- Size 16: RE21558
- Size 22: RE21564

Technical Data

Size			6	10	16	22
Component series			6X	3X	5X	5X
Operating pressure	p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)	315 (4600)
Cracking pressure		bar (PSI)	1.5, 3, 7 (22, 42, 102)	1.5, 3, 6, 10 (22, 42, 87, 145)	3, 5, 7.5, 10 (42, 92.5, 109, 145)	3, 5, 7.5, 10 (42, 92.5, 109, 145)
Flow	$q_{V\ max}$	l/min (GPM)	60 (15.9)	120 (31.7)	300 (79.3)	450 (118.9)

See index Page 179 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Check Valves

Pilot operated check valves – sandwich module
Z2SRK

Models Z2SRK are pilot operated check valves in a sandwich plate design. They provide line contact closure in one or two actuator ports, even during idle periods. Piloted to open, utilizing a pressure signal from the opposite actuator port provides a self-contained function. The Z2SRK has a maximum operating pressure of 3000 PSI.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sandwich plate valve
- Porting pattern according to ISO 4401-**3**, NFPA T3.5.1M R1 and ANSI B93.7 **D 03**
- For the leak-free closure of two actuator ports

Detailed information:
- Size 6: RE21543
- Size 10: RE21549

Technical Data

Size			6	10
Operating pressure	p_{max}	bar (PSI)	210 (3100)	210 (3100)
Flow	$q_{V\ max}$	l/min (GPM)	40 (10.6)	80 (21.1)

See index Page 180 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Directional Valves

Directional poppet valves, direct operated, solenoid actuation
SED & SEW

Directional control valves, model SED and SEW, are direct (SED) or lever (SEW) actuated directional poppet valves with solenoid actuation. They control the start, stop, and direction of fluid flow. Poppet valves, or seat valves, provide a line contact closure for applications where spool valve leakage or silting is not desirable.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Size 6 and 10
- For mounting:
  - –Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
  - –Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Blocked port is leak-free when completely shifted
- Solenoids with detachable coil
- Pressure-tight chamber does not have to be opened for changing the coil (type SED)
- Reliable switching when under pressure over longer periods of standstill

Detailed information:
Size 6:
- SED: RE22049
- SEW: RE22058

Size 10:
- SED: RE22045
- SEW: RE22075

Technical Data

Type SED				
Size			**6**	**10**
Operating pressure	p_{max}	bar (PSI)	350 (5100)	350 (5100)
Flow	$q_{V\ max}$	l/min (GPM)	25 (6.6)	40 (10.6)

Type SEW				
Size			**6**	**10**
Operating pressure	p_{max}	bar (PSI)	420/630 (6100/9100)	420/630 (6100/9100)
Flow	$q_{V\ max}$	l/min (GPM)	25 (6.6)	40 (10.6)

See index Page 180 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Directional Valves

Directional spool valves, direct operated with manual actuation
4WMM & 4WMR

Directional valves type WMM are lever operated directional spool valves. They control the start, stop, and direction of a flow. These directional valves basically consist of housing; lever; control spool; return springs. A full array of spools are possible with variations for detented operation on both 2-position or 3-position functions. Flow and pressure rates from 4000 PSI to 5000 PSI and 16 GPM to 32 GPM cover a wide range of applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Size 6 and 10
- For mounting:
  - –Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
  - –Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Operation by means of manual lever or roller/plunger

Detailed information:
- Size 6: RE22280
- Size 10: RE22331

Technical Data

Size			6	10
Operating pressure	p_{max}	bar (PSI)	350 (5100)	315 (4600)
Flow	$q_{V\ max}$	l/min (GPM)	60 (16)	120 (32)

See index Page 180 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Directional Valves

Directional valves with fluid actuation
WP & WH

Valves of type WP and WH are directional spool valves with fluid actuation. They control the start, stop, and direction of flow. A full array of spools are available for both the WH and WP operator.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Size 6
- Direct operated directional spool valve
- Types of actuation:
  – Pneumatic (WP)
  – Hydraulic (WH)
- Porting pattern according to DIN 24340 form A (**without** locating hole)
- Porting pattern according to ISO 4401-03-02-0-05 and NFPA T3.5.1 R2-2002 D03 (**with** locating hole)

Detailed information:
- RE22282

Technical Data

Size			**6X (WP)**	**5X (WH)**
Maximum operating pressure	p_{max}	bar (PSI)	315 (4600)	315 (4600)
Flow	$q_{v\ nom}$	l/min (GPM)	60 (15.8)	60 (15.8)

See index Page 180 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Directional Valves

Directional spool valves, direct operated with solenoid actuation
WE

Directional valves type WE are solenoid operated directional spool valves. They control the start, stop, and direction of a flow. These directional valves basically consist of housing; one or two solenoids; control spool; and no, one, or two return springs. A full array of spools are possible with variations in voltage and electrical connection, all within the program. Flow and pressure rates from 4000 PSI to 5000 PSI and 21 GPM to 32 GPM cover a wide range of applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 6 to 10
- For subplate mounting:
  – Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B93.7 D 03
  – Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Wet-pin AC or DC solenoids
- Solenoids with detachable coil
- Electrical connection as individual or central connection
- Optional spool position monitoring (RE24830)
- Smooth switching characteristics [3)]

Detailed information:

- Size 6:
  RE23178 [2)]
- Size 10:
  RA23183 [3)]
  RE23327 [5)]
  RE23351 [6)]

Technical Data

Size			6			
Version			1)	2)	3)	4)
Operating pressure	p_{max}	bar (PSI)	315 (4600)	350 (5100)	350 (5100)	315 (4600)
Flow	$q_{V\ nom}$	l/min (GPM)	60 (15.8)	80 (21)	60 (15.8)	60 (15.8)

Size			10		
Version			3)	5)	6)
Operating pressure	p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)
Flow	$q_{V\ nom}$	l/min (GPM)	100 (26.4)	120 (32)	120 (32)

1) Standard valve, size 6 (DC solenoid only)
2) Heavy duty valve
3) Soft switch valves
4) Reduced electrical power consumption
5) Standard valve, size 10
6) 5-chamber version (DC solenoid only)

See index Pages 181–191 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Directional Valves

Directional spool valves, pilot operated with solenoid actuation
4WEH

Directional valves type WEH are solenoid operated directional spool valves. They control the start, stop, and direction of a flow. These pilot operated directional valves consist of a pilot control valve and main stage with spring or hydraulic centering options. Additionally, the pilot and drain configuration may be selected. A full array of spools are possible with variations in voltage and electrical connection, all within the program. Flow and pressure rates from 4000 PSI to 5000 PSI and 42 GPM to 120 GPM cover a wide range of applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 10 to 22
- Porting pattern according to DIN 24340 form A and ISO 4401-5, 7, 8; NFPA T3.5.1M R1, and ANSI B93.7 D 05, D 07, D 08
- Wet-pin AC or DC solenoids
- Spring and/or pressure return of the main spool to its initial position
- Spring centering (size 10, 16 & 25)
- Spring or pressure centering (sizes 16 & 25)
- Electrical connection as individual connection or central connection
- Optional switching time adjustment
- Stroke limitation of the main spool, optional

Detailed information:
- RE24751

Technical Data

Size			10	16	22
Operating pressure	p_{max}	bar (PSI)	350/280 (5100/4060)	350/280 (5100/4060)	350/280 (5100/4060)
Flow	$q_{V\ max}$	l/min (GPM)	160 (42.3)	300 (79.3)	450 (118.9)

See index Page 191 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Directional Valves

Directional shut-off valves, internally pilot operated, externally pilot operated

Z4WEH

Valve type Z4WEH are directional spool valves with electrohydraulic actuation. They control the start and stop of a flow, and function as an emergency on–off isolating valve or on–off isolating/bypass valve, primarly used for servo/proportional systems.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 10
- Directional spool valve, pilot operated
- 2 types of actuation:
  – Electrohydraulic (type WEH)
  – Hydraulic (type WH) – available
- Function as shut-off through-valve or shut-off/through valve/short-circuit valve
- Free flow in P and T in every spool position
- Porting pattern to ISO 4401-05-04-0-05
- Wet-pin DC or AC voltage solenoids, optional
- Manual override, optional
- Electrical connection as individual or central connection
- Switching time adjustment, optional
- Stroke adjustment of main spool, optional
- Inductive position switch and proximity sensors

Detailed information:
- RE24753

Technical Data

Size			10
Maximum operating pressure	p_{max}	bar (PSI)	315 (4600)
Flow	$q_{V\ max}$	l/min (GPM)	160 (42)

See index Page 191 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valves, direct operated
DBD

The DBD pressure relief valves are direct operated type relief valves. They are used to limit the pressure in a hydraulic system. DBD type relief valves offer line contact sealing for minimal leakage at closure and a full array of pressure capacities are available.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 6 to 20
- For threaded connection (“G”)
- As cartridge valve (“K”)
- Optional adjustment types:
  - –Screw with hexagon socket and protective cap
  - –Rotary knob / hand wheel

Detailed information:
- RE25402

Technical Data

Size			6	10	20
Version			“G, K”	“G, K”	“G, K”
Operating pressure	p_{max}	bar (PSI)	100 (1450) 400 (5800)	100 (1450) 630 (9150)	400 (5800)
Flow	$q_{V\ max}$	l/min (GPM)	50 (13)	120 (32)	250 (66)
Version “G” port size	SAE		–4; 7/16-20	–8; 3/4-16	–16; 1-5/6-12

See index Page 192 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valves
DZT

Type DZT pressure relief valves are seat design remote control valves and allow for the limitation of the system pressure. These valves are basically used as pilot control valves for the indirect control of major flow

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 6
- Directly operated valve for the limitation of the system pressure
- Application as pilot control valve
- For plate and control panel mounting

Detailed information:
- RE25724

Technical Data

Size			6
Maximum operating pressure	p_{max}	bar (PSI)	350 (5100)
Maximum flow	$q_{V\ max}$	l/min (GPM)	3 (0.79)

See index Page 192 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valves – sandwich module, pilot operated
ZDB(K) & Z2DB

Pressure relief valve types ZDB(K) und Z2DB are pilot sandwich type pressure controls. ZDB versions offer single port pressure control, while Z2DB models offer dual port pressure control. Z2DB models can be configured as either port relief or cross port relief. The ZDB program offers multiple spring options.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 6
- For mounting:
  - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B93.7 D 03
  - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D05
- Four pressure ratings: 50 bar (725 PSI), 100 bar (1450 PSI), 200 bar (2900 PSI), and 315 bar (4600 PSI)
- Five pressure relief functions:
  - A → T; P → T; B → T; A → T as well as A+B → T; A → B and B → A
- Adjustment type:
  - Hex screw with protective cap

Detailed information:

- Size 6
  ZDB & Z2DB:
  RE25751
  Size 10
  ZDB & Z2DB:
  RE25761
- Size 6
  ZDBK:
  RE25754

Technical Data

ZDB & Z2DB		Size	6	10
Operating pressure	p_{max}	bar (PSI)	315 (4600)	350 (4600)
Flow	$q_{V\ max}$	l/min (GPM)	60 (15.9)	100 (26.4)

ZDBK		Size	6	10
Operating pressure	p_{max}	bar (PSI)	210 (3000)	210 (3000)
Flow	$q_{V\ max}$	l/min (GPM)	40 (10.5)	80 (21)

See index Page 192 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valve, pilot operated
DB & DBW

Pressure control valves of type DB are pilot operated pressure relief valves. They are used for the limitation of the operating pressure. Pressure relief valves basically consist of a main valve with main spool insert and pilot valve with pressure adjustment element.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 10, 20, & 30
- For mounting:
- – Porting pattern according to ISO 6264-AT-10-2-A

Detailed information:
- RE25802

Technical Data

Size			10	20	30
Operating pressure	p_{max}	bar (PSI)	350 (5100)	350 (5100)	350 (5100)
Flow	$q_{V\ max}$	l/min (GPM)	250 (66)	500 (132)	650 (172)

See index Pages 192–193 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure reducing valve, direct operated
DR

The valve type DR 6 DP is a direct operated pressure reducing valve in 3-way design, i.e. with pressure limitation of the secondary circuit.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- For subplate mounting
- Porting pattern according to DIN 24340 form A
- Porting pattern according to ISO 4401-03-02-0-05 and NFPA T3.5.1 R2-2002 D03 (with locating hole)
- 4 adjustment types for pressure adjustment, optionally:
  - Rotary knob
  - Hex screw with protective cap
  - Lockable rotary knob with scale
  - Rotary knob with scale
- 5 pressure ratings
- Check valve, optional

Detailed information:
- RE26564

Technical Data

DR			
Weight		kg (lbs)	1.2 (2.64
Ambient temperature range		°C (°F)	–30 to +80 (–22 to +176) [NBR seals] –20 to +80 (–4 to +176) [FKM seals]
Maximum operating pressure	– Port P	bar (PSI)	315 (4600)
Maximum secondary pressure	– Port A	bar (PSI)	150 (2175)
Maximum backpressure	– Port T (Y)	bar (PSI)	160 (2300)
Maximum flow		l/min (GPM)	60 (15.9)

See index Page 193 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure-reducing valves – sandwich module, direct operated
ZDR

Models ZDR are 3-way direct operated pressure reducing-relieving valves. They maintain a “reduced” pressure in a branch circuit and permit “relieving” pressure spike occurrences in the reduced branch circuit. Options for pressure ranges and operator adjustment options are within the scope of the modular reducing valve portfolio.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 6 and 10
- For mounting:
  – Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M Ra, and ANSI B93.7 D 03
  – Size 10: Porting pattern according to ISO 4401-05, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Pressure reduction in channel A, B or P
- Four pressure ratings:
  – 25 bar (360 PSI), 75 bar (1100 PSI), 150 bar (2175 PSI), 210 bar (3050 PSI)
- Adjustment type:
  – Hex screw with protective cap
- Check valve, optional

Detailed information:
ZDR
- Size 6:
  RE26570
- Size 10:
  RE26585
  RA26861

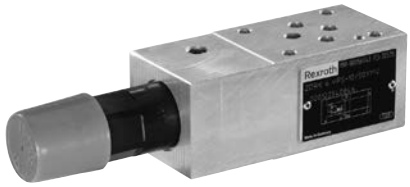
Technical Data

ZDR		Size	6	10
Component series			4X	5X
Operating pressure	p_{max}	bar (PSI)	210 (3050)	210 (3050)
Flow	$q_{V\ max}$	l/min (GPM)	50 (13.2)	80 (21.1)

See index Page 193 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure-reducing valves – sandwich module, direct operated
ZDRK



Models ZDRK are 3-way direct operated pressure reducing-relieving valves. They maintain a “reduced” pressure in a branch circuit and permit “relieving” pressure spike occurrences in the reduced branch circuit. Options for pressure ranges and operator adjustment options are within the scope of the modular reducing valve portfolio.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 6
- Sandwich plate valve
- For mounting:
  – Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M Ra, and ANSI B93.7 D 03
  – Size 10: Porting pattern according to ISO 4401-05, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Pressure reduction in P1
- Pressure gauge connection port
- Adjustment type:
  – Hex screw with protective cap

Detailed information:
ZDRK
- RA26572

Technical Data

ZDRK		Size	6
Component series			1X
Maximum operating pressure	p_{max}	bar (PSI)	210 (3050)
Maximum secondary pressure		bar (PSI)	100 (1450)
Maximum back pressure		bar (PSI)	160 (2300)
Flow	$q_{V\,max}$	l/min (GPM)	40 (10.5)

See index Page 193 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Flow Control Valves

Throttle valves and throttle check valves
MG

Valve model MG is a pressure and viscosity dependent throttle valve. Model MG (throttle valve) throttles in both flow directions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10
- For in-line installation
- Related to pressure and viscosity
- Throttling in both directions of flow

Detailed information:
- RA27219

Technical Data

Size			10
Operating pressure	p_{max}	bar (PSI)	315 (4600)
Flow	$q_{V\ max}$	l/min (GPM)	50 (13.21)

See index Page 193 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Flow Control Valves

Double throttle check valves – sandwich module
Z2FS(K)

Flow control valves, Model Z2FS(K), are double throttle/check sandwich type valves. They restrict flow to or from actuator ports (A & B) of a directional valve. Two throttle/check valves, symmetrically arranged in the housing, restrict flow with adjustable throttles in one direction while providing free flow in the opposite direction.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToflow

Features

- Sizes 6 to 22
- For mounting:
  - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B93.7 D 03
  - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
  - Size 16: Porting pattern according to ISO 4401-7, NFPA T3.5.1M R1, and ANSI B93.7 D 07
  - Size 22: Porting pattern according to ISO 4401-8, NFPA T3.5.1M R1, and ANSI B93.7 D 08
- For limiting the main or pilot flow of one or two actuators
- Meter-in or meter-out throttling
- Adjustment type:
  - Softscrew with locknut

Detailed information:
- Z2FS Size 6: RA27506
- Z2FSK Size 6: RE27510
- Z2FS Size 10: RE27518
- Z2FSK Size 10: RA27524
- Z2FS Size 16: RE27526
- Z2FS Size 22: RE27536

Technical Data

Z2FS		Size	6	10	16	22
Operating pressure	p_{max}	bar (PSI)	315 (4600)	315 (4600)	350 (5100)	350 (5100)
Flow	$q_{v\ nom}$	l/min (GPM)	80 (21)	160 (42)	250 (66)	360 (95)

Z2FSK		Size	6	10
Operating pressure	p_{max}	bar (PSI)	210 (3000)	210 (3000)
Flow	$q_{v\ nom}$	l/min (GPM)	40 (10.5)	80 (21)

See index Pages 193–194 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Flow Control Valves

2-way flow control valves, pressure compensated
2FRM

Pressure compensated flow controls Model 2FRM are two-way restrictive-style flow regulators. They accurately control flow, independent of changes in fluid viscosity or pressure drop across the valve. This valve maintains a constant actuator speed independent of changes in load induced pressure. Sharp edged throttle openings reduce the influence of flow variations from temperature change.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToflow

Features

- Sizes 6, 10, and 16
- For subplate mounting:
  – Size 6: Porting pattern according to ISO 6263-03 and NFPA T3.5.1M R1 2 FO 3
  – Size 10: Porting pattern according to ISO 6263-06-2 and NFPA T3.5.1M R1 2 FO 6
  – Size 16: Porting pattern according to ISO 6263-07-2 and NFPA T3.5.1M R1 2 FO 7
- Manual dial adjustment
- With external closure of the pressure compensator, optional (size 6)
- Check valve, optional (size 6)
- Pressure compensator stroke limitation for reducing start-up jumps, optional (size 10)

Detailed information:
- Size 6: RE28163
- Size 10 & 16: RA28389

Technical Data

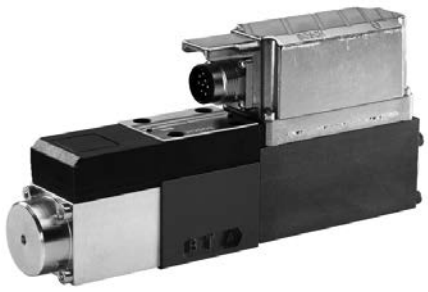
Size			6	10	16
Operating pressure [1]	P_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)
Pilot pressure	p_{St}	bar (PSI)	–	315 (4600)	315 (4600)
Flow	$q_{V\,max}$	l/min (GPM)	32 (8.45)	50 (13.21)	160 (42.27)

See index Page 194 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional directional valves, direct operated with electrical position feedback

4WRP & 4WRPE



The 4/2 and 4/3 proportional valves are directly controlled components of subplate mounting design. They are actuated by proportional solenoids with an integrated linear feedback to assure accurate positioning related to a command signal. The valves are available with either external control electronics (model WRP) or by integrated valve electronics (model WRPE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6 and 10
- For subplate mounting:
  - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
  - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Actuation through control solenoid
- Position sensing of the control spool via an inductive position transducer
- Series with/without integrated electronics
- Characteristic curves with and without inflection

Detailed information:
- RE29020
- RE29025

Technical Data

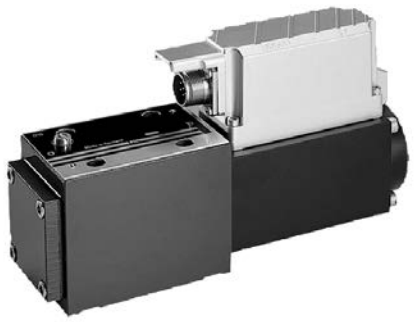
Size				**6**	**10**
Operating pressure	Ports P, A, B	p_{max}	bar (PSI)	315 (4600)	315 (4600)
Flow		$q_{V\,max}$	l/min (GPM)	40 (10.57)	100 (26.42)
Maximum hysteresis			%	≤0.2	≤0.2
Actuating time	0 to 100 %		ms	12	25
Operating voltage	OBE	***U***	V	24	24
Comm. value signal	OBE	***U***	V	0 to 10/±10	0 to 10/±10
		I	mA	4 to 20	4 to 20
Control electronics	Type 4WRP...EA	Card, analog		VT-VRPA1-527...QV	VT-VRPA1-537...QV
	Type 4WRP...E...W	Card, analog		VT-VRPA2-527	VT-VRPA2-537

See index Page 194 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

High-response directional valves, direct operated with electrical position feedback

4WRPH & 4WRPEH



4WRPH and 4WRPEH type proportional directional valves offer fast response, minimal hysteresis, and are excellent performers in closed loop applications. Available with or without on-board electronics, these valves may be used in a variety of applications and environments. The robust design is also applicable to circuits where vibration may be a concern.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6 and 10
- For subplate mounting:
  - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
  - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Use for position, velocity and pressure control
- Actuation through control solenoid
- Position sensing of the control spool via an inductive position transducer
- Characteristic curves with and without inflection
- Spool and sleeve in servo-type quality
- Integral electronics (OBE) for type 4WRPEH

Detailed information:

Size 6
- Model 4WRPH: RE29028
- Model 4WRPEH: RE29035

Size 10
- Model 4WRPH: RE29032
- Model 4WRPEH: RE29037

Technical Data

Size				6	10
Operating pressure		p_{max}	bar (PSI)	315 (4500)	315 (4500)
Nominal flow	Δp = 70 bar (1000 PSI)	$q_{V\ nom}$	l/min (GPM)	2 to 40 (0.5 to 11)	50 to 100 (13 to 26)
Maximum hysteresis			%	<0.2	<0.2
Frequency	Phase response: –90 °	f	Hz	120	60
Operating voltage	OBE	***U***	V	24	24
Comm. value signal	OBE	***U***	V	0 to 10 / ±10	0 to 10 / ±10
		I	mA	4 to 20	4 to 20
Control electronics	Type 4WRPH		Card, analog	VT-VRRA1-527	VT-VRRA1-537

See index Page 194 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional directional valve, direct operated without electrical feedback

4WRA & 4WRAE

The WRA(E) direct operated proportional valve without integral feedback is available with or without on-board electronics (OBE). Individual valve amplifiers are available for the non-OBE version. Postive overlap spools reduce leakage at center and OBE models can be configured to either a voltage or current command.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6 and 10
- For subplate mounting:
  - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
  - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Proportional solenoid operation
- Spring-centered control spool
- Different spool overlaps possible
- Integral electronics (OBE) for type 4WRAE

Detailed information:
- RE29055

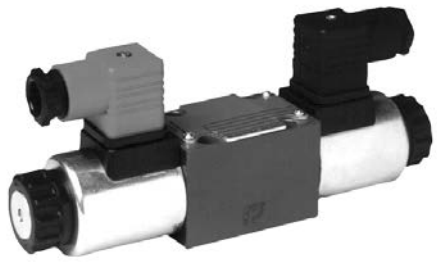
Technical Data

Size				**6**	**10**
Operating pressure	Ports A, B, P	p_{max}	bar (PSI)	315 (4600)	315 (4600)
Nominal flow	Δp = 10 bar (145 PSI)	$q_{V\ nom}$	l/min (GPM)	7, 15, 30 (1.8, 4, 8)	30, 60 (8, 16)
Maximum hysteresis			%	5	5
Step response	0 to 90 %	T_u+T_g	ms	< 40	< 140
Operating voltage	OBE	U	V	24	24
Comm. value signal	OBE	U	V	0 to 10 / ±10	0 to 10 / ±10
		I	mA	4 to 20	4 to 20
Control electronics	Type 4WRA	Card, analog		VT-VSPA2-1	
		Card, digital		VT-VSPD-1	
		Module, analog		VT-MSPA2-1	

See index Page 195 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional directional control valves, direct operated
4WRA(E)B



4WRAB6 type direct operated proportional valves are available with or without on-board electronics (OBE). Suitable for open loop applications, the WRAB6 does not have integral feedback; however, provides proportional flow output dependant on a commanded value. The WRAB6 may also be used with a DC switching signal, if the application requires throttled shifting without full proportional control.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Direct operated proportional directional control valves, which control both the direction and volume of a fluid flow
- Mounts on standard ISO 4401-3, NFPA T3.5.1MR1 D 03 and ANSI B 93.7 D 03 interface
- Two piece solenoid design with removable coils
- Integrated electronics available
- For subplates, see RE45052

Detailed information:
- RA29057

Technical Data

Size				**6**
Operating pressure	Ports A, B, P	p_{max}	bar (PSI)	350 (5100)
	Port T	p_{max}	bar (PSI)	210 (3100)
Maximum flow			l/min (GPM)	30 (8)
Maximum hysteresis			%	3.5
Step response	0 to 100%	$T_u + T_g$	ms	40
Supply voltage		U	vdc	12V (±10%)
Associated electronic amplifier cards (some restrictions apply)				MDSD*

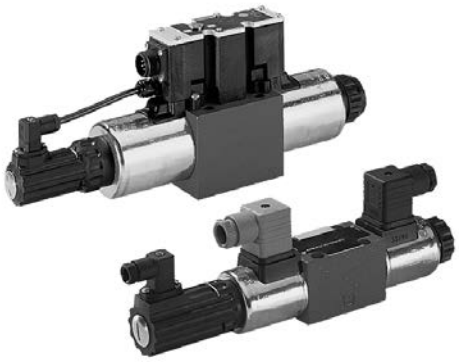
* The MDSD1 or MDSD will operate the 4 WRA B../G12 with 14 to 28 vdc from the power supply. The MDSD can be used with 10 to 14 vdc power, but valve performance may be affected. At higher temperatures, increased solenoid resistance may reduce the available flow. An amplifier is not required when using the 4 WRA B../G12 as a non-proportional (switching) valve at 12 vdc ±10%.

See index Page 195 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional directional valve, direct operated with electrical position feedback

4WREE



WRE(E) direct operated proportional directional control with integral feedback are available with on-board electronics (OBE). Positive overlap spools reduce leakage at center, while underlap spools can be utilized for closed-loop functions. Individual amplifiers are available, while OBE models are possible with either a voltage or current command.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6 to 10
- For mounting:
  - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
  - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Proportional solenoid operation
- Spring-centered control spool
- Different spool overlaps possible
- Integrated control electronics (OBE) for type 4WREE

Detailed information:
- RE29061

Technical Data

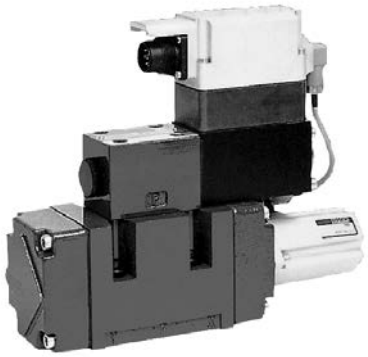
Size				**6**	**10**
Operating pressure	Ports A, B, P	p_{max}	bar (PSI)	315 (4600)	315 (4600)
Nominal flow	Δp = 10 bar(145 PSI)	$q_{v\ nom}$	l/min (GPM)	8, 16, 32 (2.1, 4.2, 8.5)	25, 50, 75 (6.6, 13.2, 19.8)
Maximum hysteresis			%	0.1	0.1
Step response	0 to 90%	$T_u + T_g$	ms	20	40
Operating voltage		U	V	24	24
Comm. value signal (alternative)	Type 4WREE	U	V	±10	±10
		I	mA	4 to 20	4 to 20

See index Page 195 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

High-response directional valves, pilot operated with electrical position feedback

4WRVE



Pilot operated proportional directional valve type 4WRVE offers integral position feedback on both pilot and mainstage for dynamic response plus greater accuracy. On-board electronics (OBE) and 12-pin connectors permit power and command all to be accomplished on the valve. Underlapped main spools and high performance pilot permit the WRVE to be an excellent candidate into applications requiring closed loop control of pressure, force, and velocity.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 16
- Porting pattern according to ISO 4401-7, NFPA T3.5.1M R1, and ANSI B93.7 D 07
- Control of the direction and magnitude of a flow
- Proportional solenoid operation
- Integrated control electronics (OBE)

Detailed information:
- RE29077

Technical Data

Size				16
Operating pressure		p_{max}	bar (PSI)	350 (5100)
Nominal flow	$\Delta p = 10$ bar	$q_{V\ nom}$	l/min (GPM)	120, 200 (32, 53)
Maximum hysteresis			%	0.1
Frequency	Phase response –90 °	f	Hz	100
Operating voltage	OBE	U	V	24
Comm. value signal	OBE	U	V	±10

See index Page 195 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

High-response directional valves, pilot operated with electrical position feedback

4WRLE

Pilot operated proportional directional valve type 4WRLE offers integral position greater feedback on both pilot and mainstage for dynamic response plus greater accuracy. On-board electronics (OBE) and 7-pin connectors permit power and command all to be accomplished on the valve. Overlapped main spools and high-performance pilot permit application into various circuits including those requiring closed-loop control of pressure, force, or velocity.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 10, 16, and 25
- Porting pattern according to ISO 4401-5, 7, 8; NFPA T3.5.1M R1; and ANSI B93.7 D 05, D 07, D 08
- Control of the direction and magnitude of a flow
- Use for force control, position control, velocity control and pressure control purposes
- Pilot control valve and main stage are position-controlled
- Characteristic curves with and without inflection
- Integral electronics (OBE) for type 4WRLE

Detailed information:
- RE29088
- RE29089

Technical Data

Size				**10**	**16**	**25**
Operating pressure		p_{max}	bar (PSI)	350 (5100)	350 (5100)	350 (5100)
Nominal flow	Δp = 10 bar (145 PSI)	$q_{V\ nom}$	l/min (GPM)	55, 80 (14.5, 21)	120, 200 (32, 53)	370 (98)
Maximum hysteresis			%	0.1	0.1	0.1
Frequency	Phase response −90 °	*f*	Hz	45	45	50
Operating voltage	OBE	*U*	V	24	24	24
Comm. value signal	OBE	*U*	V	±10	±10	±10
		I	mA	4 to 20	4 to 20	4 to 20

See index Pages 195–196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

4/3 directional high-response control valves, direct operated, with integrated control electronics (OBE)

4WRSE

These 4/3 directional high-response valves are direct operated components. They are actuated by control solenoids. The solenoids are controlled by integrated control electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 10
- Direct operated directional high-response control valve with integrated control electronics (OBE) for controlling the direction and magnitude of flow
- Suitable for position and velocity control
- Porting pattern to DIN 24340 form A and ISO 4401

Detailed information:
- RE29067

Technical Data

Size			10
Operating pressure	Ports P, A, B	bar (PSI)	up to 315 (4600)
	Port T	bar (PSI)	up to 315 (4600)
Max. permissible flow	$q_{V\ nom}$ ±10 % at $\Delta p = 10$ bar	l/min (GPM)	75 (19.8)
Hysteresis		%	≤ 0.05

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

4/2, 4/3 proportional directional valves, pilot operated, without electrical position feedback
4WRZE

Valves of type 4WRZE are pilot operated 4-way directional valves with operation by proportional solenoids. They control the direction and magnitude of flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 16
- Pilot operated 2-stage proportional directional valves with integrated electronics (OBE)
- Control the direction and magnitude of flow
- Manual override
- Spring-centered control spool

Detailed information:
- RE29115

Technical Data

Size			16
Operating pressure		bar (PSI)	up to 350 (5100)
Return flow pressure	– Port T (Port R) (external pilot oil drain)	bar (PSI)	up to 250 (3600)
	– Port T (internal pilot oil drain)	bar (PSI)	up to 30 (1300)
	– Port Y	bar (PSI)	up to 30 (1300)
Flow of the main valve		l/min (GPM)	up to 460 (121.5)

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional cartridge throttle valve, with inductive position transducer
FESX

Model FESX proportional throttle valves are pilot operated and in "cartridge" design. This results in their compact form despite high flow rates. The electronics, which take the form of an external valve amplifier in Europe card format, trigger the solenoid of the pilot valve and thus control the position of the main stage. Hysteresis is <0/2% and a position accuracy of >0.5% is achieved.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 25 & 32
- Pilot operated throttle valves with inductive position transducer
- Design: cartridge type DIN 24342, ISO/DIS 7368, control oil external X and Y
- Adjustable via the position-controlled main stage by means of the position transducer and the external valve electronics
- Hysteresis < 0.2%, positioning accuracy < 0.5%

Detailed information:
- RE29215

Technical Data

Size			25	32
Pressure fluid			Hydraulic oil to DIN 51524…535	
Pressure fluid temperature range		°C (°F)	–20 to +80 (–4 to +176)	
Maximum permitted degree of contamination of pressure fluid – Purity class to ISO 4406 (c)			Class 18/16/13	
Max. operating pressure	Ports A, B, X	bar (PSI)	315 (4600)	315 (4600)
	Port Y	bar (PSI)	100 (1450)	100 (1450)
Nominal flow rate at Δ_p = 5 bar (72.5 PSI) per edge		l/min (GPM)	210 (55.5)	320 (84.5)
Weight		kg (lbs.)	3.9 (8.6)	5.1 (11.2)
Q_{max}		l/min (GPM)	600 (158.5)	1000 (264.2)

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional cartridge throttle valve, with on-board electronics (OBE) and inductive position transducer
FESXE

Model FESXE proportional throttle valves are pilot operated and in "cartridge" design. This results in their compact form despite high flow rates. The position of the main spool is closed-loop controlled by the on-board electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 40
- Pilot operated throttle valves with on-board electronics (OBE) and inductive position transducer
- Design: cartridge type DIN 24342, ISO/DIS 7368, control oil external X and Y
- Hysteresis < 0.2%

Detailed information:
- RE29216

Technical Data

Size			40
Max. operating pressure	Ports A, B, X	bar (PSI)	315 (4600)
	Port Y	bar (PSI)	100 (1450)
Nominal flow rate		l/min (GPM)	500 (132)
Weight		kg (lbs.)	7.9 (17.4)
Q_{max}		l/min (GPM)	1,500 (396)
Hysteresis		%	≤ 0.2

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valves with position feedback (Lvdt AC/AC)

DBETBX

DBETBEX proportional pressure relief valves limit pressure for piloting applications requiring high performance. Pressure is directly controlled by changing the proportional solenoid position.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Directly operated valves with position feedback for limiting system pressure
- Adjustable through the position of the armature against the compression spring
- Position-controlled at a high magnetic force, minimal hysteresis <0.3%
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94

Detailed information:
- RE29150

Technical Data

Size			6
Maximum set pressure (at Q = 1 l/min [0.26 GPM])		bar (PSI)	180 (2600)
Minimum pressure (at Q = 1 l/min [0.26 GPM])		bar (PSI)	4 (58)
			Note: At Q_{max} = 3 l/min (GPM) the pressure levels stated here increase
Maximum working pressure (at Q = 1 l/min [0.26 GPM])	Port P	bar (PSI)	315 (4600)
Maximum pressure	Port T	bar (PSI)	≤ 2 (29)
Maximum solenoid current		I_{max}	3.7
Coil resistance R_{20}		Ω	2.5
Hysteresis		%	≤ 0.3

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valves, direct operated with position feedback
DBETBEX

DBETBEX proportional pressure relief valves limit pressure for piloting applications requiring high performance. Pressure is directly controlled by changing the proportional solenoid position with on-board electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Proportional solenoid operation
- Adjustable by specifying the position of the solenoid armature
- Integral electronics (OBE)

Detailed information:
- RE29151

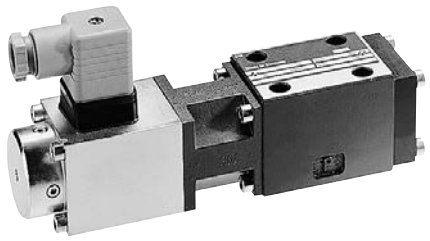
Technical Data

Size				**6**
Type				DBETBEX
Operating pressure	Port P	p_{max}	bar (PSI)	315 (4600)
	Port T	p_{max}	bar (PSI)	250 (3600)
Flow		$q_{V\ max}$	l/min (GPM)	2 (0.53)
Maximum hysteresis			%	≤ 0.2
Operating voltage	OBE	***U***	V	24
Command value signal	OBE	***U***	V	0 to 10
		I	mA	4 to 20

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve, pilot operated
DBE6X



Type DBE6X proportional pressure relief valves are pilot operated pressure relief valves. The valves are actuated by means of a proportional solenoid. With these valves, the system pressure that needs to be limited can be infinitely adjusted in relation to the solenoid current.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Pilot operated valves (pilot valves) for limiting system pressure (pilot oil internal only)
- Adjustable by means of the solenoid current
- Solenoid versions $I_{max} = 0.8$ A
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94

Detailed information:
- RE29156

Technical Data

Size			6
Maximum set pressure (at $Q = 1$ l/min [0.26 GPM])		bar (PSI)	315 (4600)
Minimum pressure (at $Q = 1$ l/min [0.26 GPM])		bar (PSI)	10 (145)
Maximum working pressure	Port P	bar (PSI)	315 (4600)
Maximum pressure	Port T	bar (PSI)	250 (3600)
Maximum flow		l/min (GPM)	40 (10.6)
Valve with solenoid type			0.8 A
Maximum solenoid current		I_{max}	0.8 A
Coil resistance R_{20}		Ω	22
Hysteresis		%	≤ 4

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve, pilot operated
DBEE6

The pilot operated proportional pressure relief valves of the type DBEE are operated by means of a proportional solenoid. These valves are used to limit a system pressure. With these valves it is possible to steplessly adjust the system pressure to be limited depending on the electrical command value.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Pilot operated valve for limiting a system pressure
- Operation by means of proportional solenoids
- Proportional solenoid with rotatable and detachable coil
- For subplate mounting
- Porting pattern according to ISO 4401-03-02-0-05 and DIN 24340

Detailed information:
- RE29258

Technical Data

Size			**6**
Maximum operating pressure	Port P; P1 – P2; A1 – A2; B1 – B2	bar (PSI)	350 (5100)
	Port T	bar (PSI)	50 (725)
Maximum setting pressure	Pressure rating 315 bar	bar (PSI)	315 (4600)
Maximum flow		l/min (GPM)	30 (7.9)
Hysteresis		%	±3 of the maximum setting pressure
Repeatability		%	< ±2 of the maximum setting pressure
Supply voltage	Nominal voltage	VDC	24
Inputs	Voltage	V	0 to 10

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve
DBETX

DBETX proportional pressure relief valves limit pressure for piloting applications. Pressure is limited by changing current to the proportional solenoid from an external amplifier.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Directly operated valves (pilot valves) for limiting system pressure
- Adjustable by means of the solenoid current
- Solenoid versions $I_{max} = 0.8$ A or $I_{max} = 2.5$ A
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)

Detailed information:
- RE29161

Technical Data

Size				6
Type				DBETX
Operating pressure	Port P	p_{max}	bar (PSI)	315 (4600)
	Port T	p_{max}	bar (PSI)	250 (3600)
Flow		$q_{V\ max}$	l/min (GPM)	1 (0.26)
Maximum hysteresis			%	≤ 4
Control electronics		Plug		VT-SSPA1-525 VT-SSPA1-508
		Module		VT-MSPA1-525 VT-MSPA1-508
		Card		VT-VSPA1-525 VT-VSPA1-508

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valves, direct operated
DBET & DBETE

DBET proportional pressure relief valves for piloting applications. Pressure is limited by changing current to the proportional solenoid from an external amplifier or internal electronics (DBETE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Valve for limiting a system pressure
- Proportional solenoid operation
- For subplate mounting
- Linearized pressure/command value characteristic curve
- Integral electronics (OBE) for type DBETE

Detailed information:
- RE29162

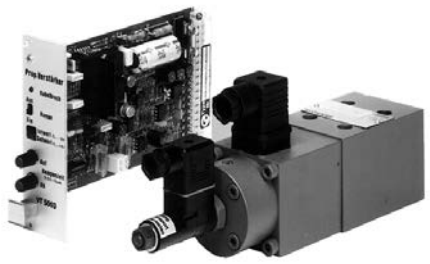
Technical Data

Size				**6**
Operating pressure		p_{max}	bar (PSI)	420 (6100)
Flow		$q_{V\ max}$	l/min (GPM)	2 (0.5)
Maximum hysteresis			%	<4
Step response	0 to 100 %	T_u+T_g	ms	70
	100 to 0 %	T_u+T_g	ms	70
Operating voltage	OBE	U	V	24
Comm. value signal	OBE	U	V	0 to 10
		I	mA	4 to 20
Control electronics	Type DBET	Card, analog		VT-VSPA1-2-1X
		Card, digital		VT-VSPD-1-2X
		Module, analog		VT-MSPA1-1-1X
		Plug, analog		VT-SSPA1-1-1X

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve
DBETR



DBETR proportional pressure relief valves for piloting applications requiring high accuracy. Pressure is limited changing the proportional solenoid position with an external amplifier.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Valve for remote electrical control
- Direct operated proportional pressure relief valve, of poppet design
- Proportional solenoid actuation with inductive position transducer (pressure balanced)
- Mounts on standard ISO 6264-03, NFPA/ANSI R 03 interface (uses Port P and T only)
- Electrical closed loop position control of the spring pre-tension, hence low hysteresis
- Good repeatability
- Control electronics:
  - Analog amplifier VT-VRPA1-100-1X/ in Euro card format (separate order)
  - Analog amplifier of modular design VT-MRPA1-100-1X/V0/0 (separate order)

Detailed information:
- RE29166

Technical Data

Size				6
Operating pressure		p_{max}	bar (PSI)	350 (5100)
Flow		$q_{V\ max}$	l/min (GPM)	3 (0.8)
Maximum hysteresis			%	≤ 1 of max. pressure setting
Operating voltage	OBE	U	V	24
Control electronics		Card, analog		VT-VRPA1-100-1X
		Card, modular		VT-MRPA1-100-1X/V0/0

See index Page 196 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve, pilot operated
DBEME

DBE(M)E proportional pressure relief valves limit pressure in hydraulic systems, where higher flow may be required.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 10
- Pilot operated valve for limiting a system pressure
- Operation by proportional solenoid
- For subplate mounting: Position ports according to DIN 24340, form E subplates according to data sheet RE45064 (separate order)
- Optional maximum pressure relief function by means of spring-loaded pilot valve
- Integrated electronics (OBE) with type DBEME:
  - Low tolerances of the command value/pressure characteristic curve
  - Up and down ramps can be adjusted independently of each other

Detailed information:
- RA29160

Technical Data

Hydraulic		**Size**	**10**	
Weight		kg (lbs.)	3.5 (7.7)	
Installation orientation			Optional	
Ambient temperature range		°C (°F)	– 20 to +50 (–4 to +122)	
Operating pressure	– Ports A, B and X	bar (PSI)	350 (5100)	
	– Port Y		Separate and at zero pressure to tank	
Max. set pressure	– Pressure stage 315 bar (4500 PSI)	bar (PSI)	315 (4500)	
	– Pressure stage 200 bar (2900 PSI)	bar (PSI)	200 (2900)	
Maximum pressure relief function (infinitely adjustable)			Pressure adjustment range	Factory setting:
	– Pressure stage 315 bar (4500 PSI)	bar (PSI)	150 to 350 (2175 to 5100)	to 350 (5100)
	– Pressure stage 200 bar (2900 PSI)	bar (PSI)	90 to 230 (1305 to 3335)	to 230 (3335)
Max. flow		l/min (GPM)	200 (52.8)	
Hydraulic fluid temperature range		°C (°F)	–20 to +80 (–4 to +176)	
Hysteresis (see command value/pressure characteristic curve)		%	±1.5 of max. set pressure	
Repeatability		%	< ±2 of max. set pressure	
Linearity		%	±3.5 of max. set pressure	
Electrical				
Supply voltage		V	24 DC	

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valve
DRE6

The valve type DRE is an electrically pilot operted 3-way pressure reducing valve with pressure limitation of the actuator. They are used for reducing sytem pressure.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Pilot operated pressure reducing valve in ports A and P1 with pressure limitation
- Operation by means of proportional solenoid
- For subplate mounting or sandwich plate design:
  – Porting pattern according to DIN 24340 form A6 and ISO 4401-03-02-0-05

Detailed information:
- RE29175

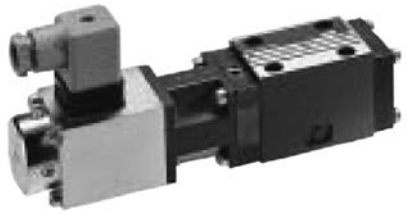
Technical Data

Size			6
Maximum operating pressure	Port P or PA	bar (PSI)	315 (4600)
	Port P1, A, and B	bar (PSI)	210 (3045)
	Port T	bar (PSI)	Separately and to the tank at zero pressure
Maximum setting pressure in channel P1 and A	Pressure rating 100 bar (1450 PSI)	bar (PSI)	100 (1450)
Maximum flow		l/min (GPM)	3 (0.8)
Hysteresis		%	±2.5 of the maximum setting pressure
Repeatability		%	< ±2 of the maximum setting pressure
Minimum control current		mA	100
Maximum control current		mA	1600

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, pilot operated
DRE6X



Model DRE6X proportional pressure reducing valves are pilot operated with a 3-way main stage. The pilot valve (pressure relief valve pilot stage) is supplied internally with a controlled flow of pilot oil. The valves are actuated by a proportional solenoid acting against a spring. The solenoid armature is cushioned to aid stability.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Pilot operated valves for reducing system pressure at the consumer (pilot oil internal only)
- 3-way version (P–A/A–T), $p_{min} = p$ in T
- Adjustable by means of the solenoid current
- Solenoid type $I_{max} = 0.8$ A
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94
- Plug-in connector to DIN 43650-AM2 included in scope of delivery
- External trigger electronics with ramps and valve calibration (order separately)

Detailed information:
- RE29177

Technical Data

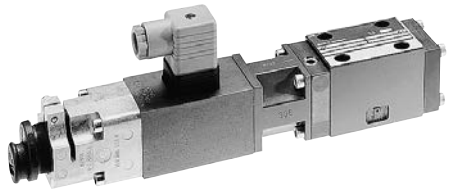
Size		6
Ambient temperature range	°C (°F)	–20 to +50 (–4 to +122)
Weight	kg (lbs.)	2.3 (5.1)
Pressure fluid temperature range	°C (°F)	–20 to +80 (–4 to +176)
Max. set pressur in A (at Qmin = 1 L/min (0.26 GPM)	bar (PSI)	175 (2540)
Minimum pressure in A	bar (PSI)	0 (relative) or pressure in T
Minimum inlet pressure in P	bar (PSI)	$p_P = p_A + \geq 5$
Maximum working pressure	bar (PSI)	Port P: 315 (4600)
Maximum pressure	bar (PSI)	Port T: 250 (3626) [B sealed]
Maximum flow	L/min (GPM)	40 (10.6)
Maximum solenoid current	I_{max}	0.8 A
Coil resistance R_{20}	Ω	22
Hysteresis	%	≤ 4
Manufacturing tolerance for p_{max}	%	≤ 10

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valve, pilot operated with inductive position transducer

DREB6X



Type DREB6X proportional pressure reducing valves are pilot operated with a 3-way main stage. The valves are actuated by a proportional solenoid, which is position-controlled against a spring. This ensures rapid response times and minimal hysteresis.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Pilot operated valves for reducing system pressure at the consumer (pilot oil internal only)
- 3-way version (P–A /A–T), $p_{min} = p_T$
- Adjustable through the position of the armature against the compression spring
- Position-controlled, minimal hysteresis < 1 %, rapid response times, see Technical data
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94

Detailed information:
- RE29182

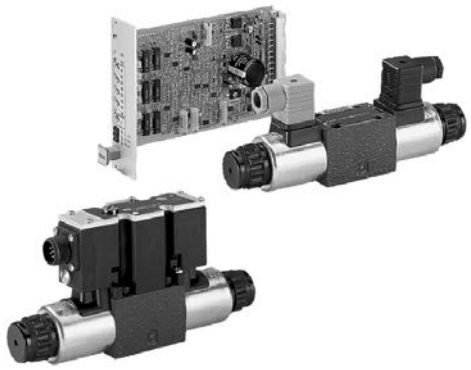
Technical Data

Size			6
Maximum set pressure (at Q_{min} = 1 l/min [0.26 GPM])		bar (PSI)	175 (2500)
Minimum pressure in A		bar (PSI)	0 (relative) or pressure in T
Minimum inlet pressure in P		bar (PSI)	$p_P = p_A + \geq 5$
Maximum working pressure	Port P	bar (PSI)	315 (4600)
Maximum pressure	Port T	bar (PSI)	250 (3600) [B sealed]
Maximum flow		l/min (GPM)	40 (10.6)
Maximum solenoid current		I_{max}	2.5 A
Coil resistance R_{20}		Ω	3
Hysteresis		%	≤ 1

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, direct operated
3DREP & 3DREPE



3DREP6 is a pressure reducing/relieving valve for very low pressures in special applications. The dual solenoid model-C regulates port A or port B. The most common applicaton is 25 bar (360 PSI) on the 4WRZ(E) 10..32 proportional directional valve. Pressure is directly controlled by changing current to a proportional solenoid by external amplifier or by integrated electronics (3DREPE6).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Valve for reducing a system pressure
- Proportional solenoid operation
- For subplate mounting
- Integrated electronics (OBE) for type 3DREPE

Detailed information:
- RE29184

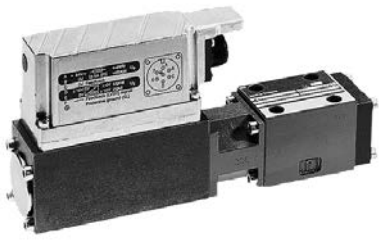
Technical Data

Size				**6**
Operating pressure		p_{max}	bar (PSI)	100 (1450)
Flow		$q_{V\,max}$	l/min (GPM)	15 (4.0)
Maximum hysteresis			%	5
Operating voltage	OBE	***U***	V	24
Command value signal	OBE	***U***	V	±10
		I	mA	4 to 20
Control electronics	Type 3DREP	Card, digital		VT-VSPD-1
		Module, analog		VT 11118

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, pilot operated
DREBE6



DREBE6 is a pilot operated pressure reducing/relieving valve for high performance applications. Pressure in port A is controlled by a proportional solenoid using position feedback with on-board electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Valve for reducing a system pressure
- Proportional solenoid operation
- Adjustable by specifying the position of the solenoid armature
- Integral electronics (OBE)

Detailed information:
- RE29195

Technical Data

Size				6
Type				DREBE6X
Operating pressure	Port P	p_{max}	bar (PSI)	315 (4600)
	Port T	p_{max}	bar (PSI)	250 (3600)
Flow		$q_{V\ max}$	l/min (GPM)	40 (10.6)
Maximum hysteresis			%	≤ 1
Operating voltage	OBE	***U***	V	24
Command value signal	OBE	***U***	V	0 to 10
		I	mA	4 to 20

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valve, pilot operated
ZDREE

Valve of type ZDREE are pilot operated pressure reducing valves of sandwich plate design in 3-way variant, i.e. with pressure limitation of the actuator pressure. They are used for reducing a system pressure.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 10
- Pilot operated valve for reducing a system pressure
- Actuation by proportional solenoid, which can be rotated
- Sandwich plate design
- Porting pattern to DIN 24340-A and ISO 4401
- Linear command value/pressure characteristic curve
- Integrated electronics (OBE) with type ZDREE, with low manufacturing tolerance of the command value/pressure characteristic curve

Detailed information:
- RE29279

Technical Data

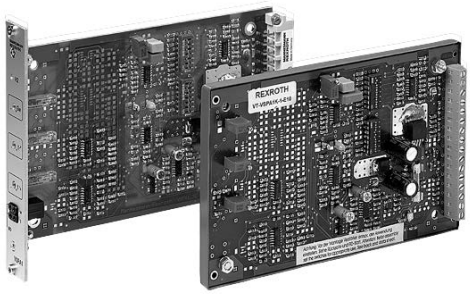
Size			**6**
Maximum operating pressure	Port P1	bar (PSI)	315 (4600)
	Ports P2; A; B; X	bar (PSI)	350 (5100)
	Port T	bar (PSI)	250 (3600)
	Port Y or L	bar (PSI)	Line separately and at zero pressure to tank
Maximum set pressure in Port P1	Pressure rating to 200 bar (2900 PSI)	bar (PSI)	200 (2900)
Permissible maximum flow		l/min (GPM)	80 (21.1)
Hysteresis		%	±3 of maximum set pressure
Supply voltage	Nominal voltage	VDC	24
Required fuses		A	2, slow-blowing
Inputs	Voltage	V	0 to 10

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves without electrical position feedback

VT-VSPA1-1-1X



The VT-VSPA proportional amplifier controls solenoid current to Rexroth proportional valves without LVDT position feedback. Single solenoid driver cards have additional features for more flexibility. The user may configure the analog input, extend ramp time, and change setup for pre-defined valve types.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Voltage stabilization, partially with raised measuring zero point
- Command value inputs for voltage and current
- Internal command value adjustment by means of 4 trimming potentiometers, call-up via relays, with LED indicator lamp (on some versions)
- Ramp generator, ramp times adjustable
- Jump function for quickly passing through overlaps of directional valves
- Enable input (on some versions)

Detailed information:
- RE30111

Technical Data

Operating voltage	***U***	VDC	24
Command value, depending on type	***U***	V	0 to 10, ±10
	I	mA	4 to 20; 0 to 20
Output amplifier			Current-regulated, clocked
Type of connection			32-pin form D (VT-VSPA1-1)
Card dimensions		mm (in.)	Eurocard 100 x 160 (3.93 x 6.29), DIN 41494
Ambient temperature range	ϑ	°C (°F)	0 to +50 [+70] (0 to +122 [158])

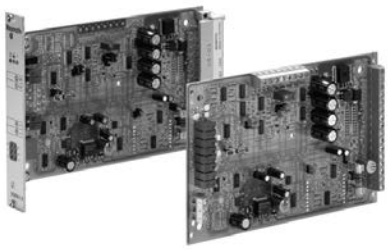
Type	Suitable for valve type
VT-VSPA1-1-1X	DBE(M), (Z)DBE, (Z)DRE10, 3DRE(M)

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves without electrical position feedback

VT-VSPA1-2-1X



This amplifier is suitable for controlling DBET-6X pressure valves or use as a universal amplifier. It has differential inputs for both voltage and current signals along with command call-ups.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential input (0 to +10 V)
- Current input (4 to 20 mA)
- 4 command value call-ups (only in conjunction with option A4)
- Ramp generator with separately adjustable ramp time for “up/down”

Detailed information:
- RE30115

Technical Data

Operating voltage	U	VDC	24
Power consumption	P_S	VA	< 24 VA
Current consumption	I	V	< 2
Fuse	I_F	A	2 (medium time lag, replaceable)
Inputs:			
Analog			
Command values 1 to 4 (potentiometer inputs)	U_e	V	0 to +10, R_e > 100 kΩ
Differential output	U_e	V	0 to +10, R_e > 50 kΩ
Current input	I_e	mA	4 to 20, load R_L = 100 Ω
Type of connection			48-pin form F
Permissible temperature range	ϑ	°C (°F)	0 to +50 (0 to +122)

Type	Suitable for valve type
VT-VSPA1-2-1X	DBET-6X

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional amplifier
VT 2000-5X/

The VT-2000 is a proportional amplifier suitable for controlling single solenoid proportional pressure control valves without electrical position feedback.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential input
- Additional command value input, 0 to +9 V
- Separately adjustable ramp generator for up and down ramps
- Card holder:
  Model VT 3002-2X/32, see RE29928

Detailed information:
- RA29904

Technical Data

Operating voltage		VDC	24 + 40% – 5%
Inputs	U_i	V	0 to 9 (reference potential is M0)
	U_i	V	0 to +10; R_i = 100 kΩ
Ramp time (adjustment range)		t	30 ms to approx. 1 s or 5 s (depending on setting of S1)
Outputs: Output stage – Solenoid current / resistance			800 mA + 10% – 5%; $R_{(20)}$ = 19.5 Ω
Permissible operating temperature range		°C (°F)	0 to +50 (0 to +122)

Type	Suitable for valve types
VT 2000-5X	DBEP, DBE…-5X

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Plug-in proportional amplifier
VT-SSPA1-50

The plug-in amplifier is suitable for mounting onto a valve connection base according to EN 175301-803. By turning the plug insert and the electronics in the housing, the plug-in amplifier can be mounted on the solenoid in 90° increments. user can adjust ramp time, maximum current, and bias current.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Used for controlling solenoid operated pressure control and directional valves without closed-loop position control
- Differential input, optional current input
- Ramp generator, separate for up/down
- Zero potentiometer / biasing current
- Command value attenuator / maximum current
- Operating voltage 24 V

Detailed information:
- RE30116

Technical Data

Operating voltage 24 V	U_B	VDC	24
	$u(t)_{max}$	V	35
	$u(t)_{min}$	V	18
Current / power consumption	I	A	< 2.6
(depending on solenoid data)	P_{max}	A	< 60
Recommended back-up fuse	I	A	3, 15; slow-blow
Maximum current (adjustment range)	I_{max}	A	I_g…2.6
Clock frequency at I_{max}	f	Hz	305
Command value input (voltage)			
Proportional range	U	V	0…10
Switching range	U	V	12 …U_B
Resistance	R	kΩ	20
Type of connection (M12 component connector)			Component connector, 4-pin, M12x1

Type	Suitable for valve type
VT-SSPA1-50-1X/V0/0-24	Universal; 2.5 A max output

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Plug-in proportional amplifiers for proportional valves without electrical position feedback

VT-SSPA1-5…

The plug amplifier is employed for actuating proportional valves without position control. It is plugged directly onto square solenoid valves. User can adjust ramp time, dither, and minimum and maximum output current.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifier in plug-in design for controlling proportional valves
- Differential input with optional current input
- Integrated ramp generator
- Proportional command value / current characteristic curve

Detailed information:
- RE30264

Technical Data

Operating voltage	***U***	VDC	10.2 to 31
Comm. value signal	***U***	V	0 to 10
	I	mA	4 to 20
Output amplifier			Current-regulated, clocked
Type of connection			Screw terminals
Ambient temperature range	ϑ	°C (°F)	–20 to +70 (–4 to +158)

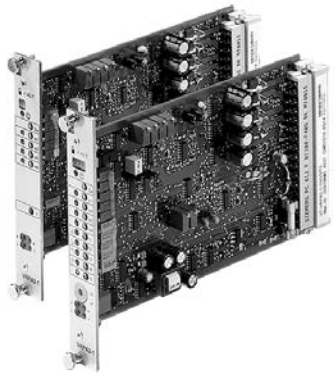
Type	Suitable for valve type
VT-SSPA1-525…	DBETX–…–25, DBE6X–…–25, DRE6X–…–25, DBE10Z-…-25, DRE10Z-…-25, 2FREX6, 2FREX10, 3FREX6, 3FREX10, 4WRBA..EA
VT-SSPA1-508…	DBETX–…–8, DBE6X–…–8, DRE6X–…–8, DBE10Z–…–8, DRE10Z–…–8

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves without electrical position feedback

VT-VSPA2-1-2X



The VT-VSPA proportional amplifier controls solenoid current to Rexroth proportional valves without LVDT position feedback. Double solenoid driver cards have additional features for more flexibility. The user may configure the analog input, extend ramp time, and change setup for pre-defined valve types.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Voltage stabilization, partially with raised measuring zero point
- Command value inputs for voltage and current
- Internal command value adjustment by means of 4 trimming potentiometers, call-up via relays, with LED indicator lamp (on some versions)
- Ramp generator, ramp times adjustable
- Jump function for quickly passing through overlaps of directional valves
- Enable input (on some versions)

Detailed information:
- RE30110

Technical Data

Operating voltage	***U***	VDC	24
Command value, depending on type	***U***	V	0 to 10, ±10
	I	mA	4 to 20; 0 to 20
Output amplifier			Current-regulated, clocked
Type of connection			48-pin male connector form F (VT-VSPA2-1)
Card dimensions		mm (in.)	Eurocard 100 x 160 (3.93 x 6.29), DIN 41494
Ambient temperature range	ϑ	°C (°F)	0 to +50 [+70] (0 to +122 [158])

Type	Suitable for valve type
VT-VSPA2-1-2X	4WRA...2X; 4WRZ...7X

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifier module
VT 11118-1X/

The VT 11118 is suitable for controlling direct operated directional valves (model 4WRA, component series 1X only), pilot operated proportional directional valves (model .WRZ, from component series 5X) and proportional pressure reducing valves (model 3DREP 6) without electrical position feedback.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Selection of the valve type by means of change-over switch at the front
- Differential input for command value voltage ±10 V
- Enable inputs
- Adjustable ramp generator
- 2 command value attenuators
- 2 output stages with fixed-frequency clocking
- LEDs: "power" – internal supply voltage (green)
  "H1" – enable 1 (yellow)
  "H2" – enable 2 (yellow)

Detailed information:
- RE30218

Technical Data

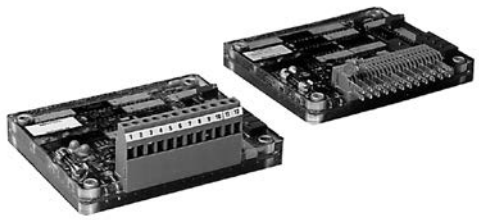
Operating voltage	U_o	24 V DC +40% (–10%)
Inputs		
Command value (differential input)	U_{Soll}	0 to ±10 V; $R_e > 50$ kΩ
Outputs		
Solenoid current/resistance		
for 4WRA 6 (component series 1X)	I_{max}	1.75 A; $R_{(20)} = 5.4$ Ω
for 4WRA 10 (component series 1X) Imax	I_{max}	1.75 A; $R_{(20)} = 10$ Ω
for .WRZ (component series 5X & 6X) and 3DREP 6 (component ceries 1X)	I_{max}	1 A; $R_{(20)} = 19.5$ Ω
for .WRZ (component series 7X) and 3DREP 6 (component series 2X)	I_{max}	1.75 A; $R_{(20)} = 4.8$ Ω
Clock-pulse frequency of the output stage		
for 4WRA 6 (component series 1X), .WRZ (component series 5X to 7X), 3DREP 6 (component series 2X)	f	175 Hz ± 10 %
for 4WRA 10 (component series 1X) and 3DREP 6 (component series 1X)	f	100 Hz ± 10 %
Type of connection		12 screw terminals
Type of mounting		Top hat rail TH 35-7.5 to EN 60715
Dimensions (W x H x D)	mm (in.)	40 x 79 x 85.5 (1.6 x 3.1 x 3.4)

Type	Suitable for valve types
VT 11118	4WRZ….-7X, 3DREP….-2X

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Mobile dual solenoid driver
MDSD



The MDSD is a high current amplifier that controls proportional valves with one or two force solenoids. Applications include the EL and EP controls on A2, A4, A7, A11 pumps and A6 motors. Also included are pressure and directional valves FT-DRE2K, DRE4K, DBE, DBET, MP, SM, SP, 4WRA, 4WRZ. All 12 Volt solenoids can be controlled over the entire 10 to 28 VDC power supply range to simplify design. Of course, 24 Volt solenoids can be used in 24 Volt power systems.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Wide supply voltage range: 10–28 VDC
- On board, replaceable fuse
- Reverse voltage protection
- Pulse Width Modulated (PWM) outputs
- PWM frequency adjustable from 75–275 Hz
- Max. and min. current separately adjustable for both solenoids
- High current driver, regulated to within 1.0%, continuous operation
- Infinite duration short circuit protection on both outputs
- Reference voltage provided for control via an external potentiometer (>1K Ohm)
- Differential inputs for external voltage sources (+/– 2.5 or +/– 5.0 VDC)
- Neutral position deadband for joysticks
- Ramp time 0.2 to 10.0 sec., separately adjustable for both solenoids (A = up/down; B = up/down)
- All adjustments are made via multi-turn potentiometers
- Temperature range: –13 to 176 °F (–25 to 80 °C)
- EMI/RFI resistant
- Rugged, environmental packaging

Detailed information:
- RA29864

Technical Data

Power supply voltage		VDC	V_{DC} = 10 to 28
Power requirement		W	$P = I^2_{max} \cdot R_{SOL} \cdot 1.2$ (Refer to valve or pump data sheet for max. solenoid current and hot solenoid resistance)
Power supply current		Amp	$I = P / V_{DC}$
Ramp time		sec.	0.2 to 10 (standard); 1.2 to 60 (R60); 2.4 to 120 (R120)
Control potentiometer		KΩ	1 to 10
Pulse frequency	P7	Hz	75 to 275
Fuse – 5x20 mm fast acting		Amp	4
Ambient temperature		°F (°C)	–13 to +176 (–25 to +80)
Weight		lbs. (kg)	0.36 (0.16)

See index Page 197 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

External control electronics for the SYDFE1 control of A10VSO axial piston pumps, analog amplifier, configurable

VT 5041-3X/

VT5041-3X analog amplifiers are designed as plug-in cards in Euro-format. They are external control electronics for the SYDFE1 control of A10VSO axial piston pumps analog amplifier.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential amplifier input
- Controller for valve spool position
- Minimum generator for pressure and swivel angle controller
- Self-clocking output stage
- Pressure-related leakage compensation (can be switched off)
- Polarity reversal protection for power supply
- Switchable actual pressure value input (current, voltage, range)

Detailed information:
- RE30242

Technical Data

Operating voltage	U_O	VDC	24 + 40% – 10%
Power consumption	P_S	VA	35
Current consumption	I	A	0.6 (I_{max} = 1.25 A)
Type of connection			32-pin male connector, DIN 41612, form D
Card dimensions			Euro-card 100 x 160 mm, DIN 41494
Permissible operating temperature range		°C (°F)	0 to +50 (0 to +122)
Storage temperature range		°C (°F)	–20 to +70 (–4 to +158)

Type	Suitable for pump types
VT-5041-3X/1-0	SYDFE1 control of A10VSO
VT-5041-3X/3-0	SYDFE1 control of A10VSO with power limitation

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves with electrical position feedback

VT-VRPA1-1…

The VT-VRPA1-100 proportional amplifier controls the DBETR proportional relief valves with position feedback. The VT-VRPA1-151 proportional amplifier controls 2FRE10 and 2FRE16 proportional flow control valves. The user may configure the analog input and extend ramp times.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Voltage stabilization, partially with raised measuring zero point
- Differential input – 0–10 V/0–20 mA/4–20 mA
- Ramp generator that can be switched off
- Oscillator/demodulator for electrical position feedback
- PID-controller for controlling the control spool position
- Cable break detection with LED indicator lamp for position transducer; in the event of a cable break, the output amplifier is de-energized
- Enable input

Detailed information:
- RE30118

Technical Data

Operating voltage	***U***	VDC	24
Comm. value signal	***U***	V	0 to 6(9); 0 to 10; , ±10
	I	mA	0 to 20; 4 to 20
Output amplifier			Current regulated, clocked
Oscillator frequency	***f***	kHz	approx. 2.5
Type of connection			32-pin form D
Card dimensions (W x L x H)		mm (in.)	Eurocard 100 x 160 (3.93 x 6.29), DIN 41494
Ambient temperature range	ϑ	°C (°F)	0 to +50 (0 to +122)

Type	Suitable for valve type
VT-VRPA1-100	DBETR
VT-VRPA1-151	2FRE10, 2FRE16

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional amplifier
VT-VRPA1…RTS-2STV

The VT-VRPA1 is suitable for controlling servo solenoid pilot operated two-stage valves. It has options for valve zero and gain. The ramps can be controlled by external voltage signals.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format for installation in 19” rack
- Output stage with closed-loop control
- Closed-loop position control with PID action
- Ramp functions:
  External voltage-controlled ramp adjustment via differential inputs.
  Ramp function can be deactivated

Detailed information:
- RE30044

Technical Data

Operating voltage	VDC	24
Plug connector		DIN 41612 – F32
Valve solenoid max.	A/VA	2.7/40 (Size 6)
Input signal	V	0 to ±10
Card dimensions (W x L x H)	mm (in.)	Eurocard 100 x 160 x ~35 (3.93 x 6.29 x ~1.38)
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)

Type	Suitable for valve type
VT-VRPA1-527	4WRL, series 3X

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Electric amplifier for proportional cartridge throttle valves
VT-VRPA1-527…RTS-2/2V

The VT-VRPA1-527 controls throttle cartridge valves FESX with ramps.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifier in Europe card format for installation in 19 rack
- Closed-loop controlled output stage
- Outputs short-circuit-proof
- Open-circuit detection for feedback signal cable
- Closed-loop position control with PID action
- Ramp function:
  – External voltage-controlled ramp adjustment via differential inputs
  – Ramp function can be shut down

Detailed information:
- RE30053

Technical Data

Card dimensions (W x L x H)	mm (in.)	100 x 160 x ~35 (3.93 x 6.29 x ~1.38) Eurocard format with fron panel (7 modular spacing)
Plug connector		DIN 41612 – F32
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)
Power supply (U_B at $z_2 – b_2$)		Nominal 24 VDC; Battery voltage 21…40 V, rectified AC voltage U_{eff} = 21…28 V (single-phase, full-wave rectification)
Maximum vavle solenoid	A/VA	2.7/40
Current rating	A	1.5
Power consumption (typical)	W	37

Type	Suitable for valve type
VT-VRPA1-527-2X/V0/RTS-2/2V	FESX

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional control amplifier
VT-VRPA1…PV-RTP

The VT-VRPA1-537-1X/V0/PV-RTP is used to control direct operated pressure control valves DBETBX. It has both zero and maximum adjustments to optimize the pressure range for the hydraulic circuit. Ramp times are controlled by potentiometer adjustment.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Output stage with closed-loop control
- Rapid energizing and de-energizing for fast response times
- Ramp can be adjusted and deactivated

Detailed information:
- RE30054

Technical Data

Operating voltage	VDC	24
Plug connector		DIN 41612 – F32
Valve solenoid max.	A/VA	3.7/50 (Size 6)
Input signal	V	0 to ±10
Card dimensions	mm (in.)	Eurocard 100 x 160 x ~35 (3.93 x 6.29 x ~1.38)
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)

Type	Suitable for valve type
VT-VRPA1-537	DBETBX-1X

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifier card for 4/3 proportional directional valves of type 4WRE

VT-VRPA2-…/T1

The VT-VRPA2-1 controls direct operated proportional directional valves, type 4WRE6 series 2X. The VT-VRPA2-2 controls direct operated proportional directional valves, type 4WRE10 series 2X.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Designed as printed circuit board in Euro-format 100 x 160 mm and suitable for installation in a rack
- Command value inputs:
  – Differential input ±10 V
  – Four callable command value inputs ±10 V
  – Current input 4 to 20 mA
- Inversion of the internal command value signal via 24V input or by means of jumpers
- Selection of ramp time through quadrant recognition (24V input) or ramp time call-ups (24V inputs) (option T5)

Detailed information:
- RE30119

Technical Data

Operating voltage	VDC	24 + 40% – 20%
Power consumption	P_S	< 24 VA
Current consumption	I	< 2 A
Type of connection		48-pin male connector, DIN 41612, form F
Card dimensions (W x L x H)	mm (in.)	Eurocard 100 x 160 (3.93 x 6.29), DIN 41494

Type	Suitable for valve type
VT-VRPA2-1-1X/…T1	4WRE6 series 2X
VT-VRPA2-2-1X/…T1	4WRE10 series 2X

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional amplifier
VT-VRPA2-5…RTP

The VT-VRPA2-5…/RTP/ is suitable for controlling direct operated 4WRP valves. It offers both zero and maximum adjustments for both solenoids. Ramp times are set by potentiometer adjustments for both acceleration and deceleration.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Ramp generator can be deactivated
- Deadband compensation

Detailed information:
- RE30048

Technical Data

Operating voltage	VDC	24	
Plug connector		DIN 41612 – F32	
Valve solenoid max.	A/VA	2.7/25 (Size 6)	3.7/50 (Size 10)
Current rating	A	1.5	2.5
Power consumption (typical)	W	35	60
Input signal (setpoint)	V	0 to ±10	
Card dimensions	mm (in.)	Eurocard 100 x 160 x ~35 (3.93 x 6.29 x ~1.38)	
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)	

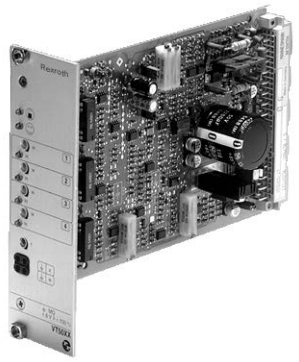
Type	Suitable for valve type
VT-VRPA2-527	4WRP 6, series 1X
VT-VRPA2-537	4WRP 10, series 1X

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Electrical amplifier for displacement control with proportional pumps

VT 5035-1X/



VT 5035 amplifiers are used for adjusting the flow of variable displacement pumps of types A4VSO and A4VSG with EO control (see RE92050, RE92076 and RE92100).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential input
- Enable input with LED indicator lamp
- “Ready for operation” signalled by LED
- Ramp generator
- Four command values that can be adjusted by means of a potentiometer; call-up is signalled by LEDs
- Controller for swivel angle
- Two clocked current output stages
- Oscillator and demodulator for inductive position measurement with cable break detection
- Reverse polarity protection for power supply

Detailed information:
- RE29955

Technical Data

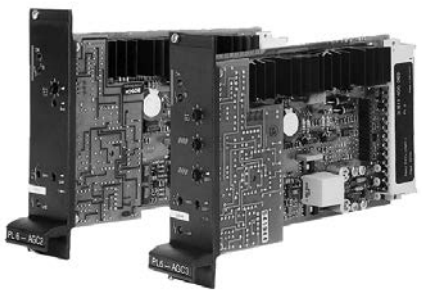
Operating voltage	U_O	VDC	24 + 40% – 5%
Power consumption	P_S	VA	< 50
Current consumption	*I*	A	< 2
Oscillator frequency	*f*	kHz	2.5 ± 10 %
Type of connection			32-pin male connector, DIN 41 612, form D
Card dimensions			Euro-card 100 x 160 mm, DIN 41 494
Permissible operating temperature range		°C (°F)	0 to +50 (0 to +122)
Storage temperature range		°C (°F)	–25 to +85 (–13 to +185)

Type	Suitable for pump types
VT-5035-1X	A4VSO and A4VSG

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for high-response valves
VT-VRRA



The amplifier VT-VRRA1 controls standard servo solenoid valves with DC-LVDT feedback for direct operated 4WRPH..L-2X and 2-stage 4WRL..-3X. These are basic amplifiers. Since these components are normally used in closed loop applications, other features like ramp, time, and spool compenstion (jump) are not needed.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Controlled output stage
- Enable input
- Short-circuit-proof outputs
- Adjustment options: Valve zero point
- Cable break detection for actual value cable
- Closed-loop position control with PID characteristics

Detailed information:
- RE30041
- RE30045

Technical Data

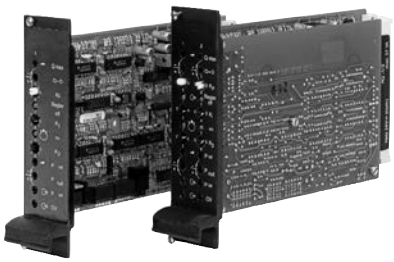
Operating voltage	***U***	VDC	24
Command value, depending on type	***U***	V	0 to 10, ±10
Type of connection			32-pin male connector, Form F
Card dimensions		mm (in.)	Eurocard 100 x 160 (3.4 x 6.3), DIN 41494
Ambient temperature range	ϑ	°C (°F)	0 to +70 (0 to +158)

Type	Suitable for valve type	Detailed information:
VT-VRRA1-527-2X/V0	4WRPH 6 … L-2X	RE30041
VT-VRRA1-527-2X/V0/2STV	4WRL … M-3X; 3WRCB, NG25 to 50	RE30045
VT-VRRA1-537-2X/V0	5WRPH10…L-2X	RE30041

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

p/Q amplifier
VT-VARAP1



The p/Q amplifier is comprised of a base card with front panel containing the valve amplifier for 4WRPH6 with closed loop pressure controller. When used with the appropriate servo solenoid valves and pressure sensors, this unit can be employed for controlling flow and pressure in a closed-loop control circuit. The input parameters are the setpoints for pressure p and flow Q.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Suitable for actuating directly operated and pilot operated servo solenoid valves
- Analog amplifiers in Eurocard format for installation in 19" rack
- Output stage with closed-loop control
- Rapid energizing and de-energizing for fast response times
- Enabling input
- Short-circuit-proof outputs
- External control shutoff
- Open-circuit detectin for feedback signal cable and pressure sensor
- Suitable for pressure sensors (1...6 V, 0...10 V, 4...20 mA)
- Closed-loop position control with PID action

Detailed information:
- RE30058

Technical Data

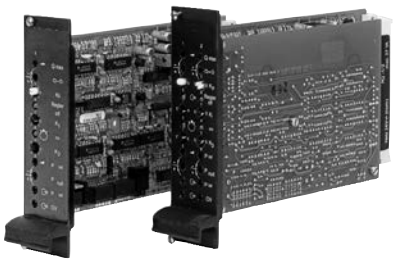
P.C.B. format (W x L x H) mm (in.)	100 x 160 x ~35 (3.93 x 6.29 x ~1.38) Europe format with front panel (7 modular spacings)
Plug connector	Connector DIN 41612 – F 32
Power supply – U_B to Z2 – b2	24 V DC
Power consumption (typical)	37 W
Input signal (setpoint Q)	b 20: 0…+10 V; z 20: 0…+10 V – Difference amplifier (R_i = 100 kΩ)
Input signal (setpoint p)	z 12: 0…10 V; z 10: 0 V – Difference amplifier
Feedback signal from pressure sensor	z 14: 4…20 mA current input; b 16: 0…+10 V / 1…+6 V voltage input; b 18: 0 V reference

Type	Suitable for valve type
VT-VARAP1-527	4WRPH6

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

p/Q controller
VT-VACAP



The input parameters for the card comprise the setpoint value for valve position, the setpoint value for pressure, the actual (feedback) pressure and any control mode signals. The pressure sensors with voltage interface receive their voltage supply from the card (z6/z8). Cards are for the connection of pressure sensors with both voltage and current signals.

The setpoint value for pressure is selected via potentiometer. The potentiometers can be supplied from the card (z32/b12). Test connections in the front plate and on the card are available for monitoring and compensation tuning of the most important parameters.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Europe card format for installation in 19 rack
- Suitable for servo solenoid valves with on-board electronics
- Closed-loop position control with PID action
- Short-circuit-proof outputs
- External deactivation for pressure controller
- Suitable for pressure sensors (1...6 V, 0...10 V, 4...20 mA)
- Supply for pressure sensors
- Detection of open circuit to pressure sensors
- For valves with on board electronics (OBE)

Detailed information:
- RE30134

Technical Data

P.C.B. format (W x L x H)	mm (in.)	100 x 160 x ~35 (3.93 x 6.29 x ~1.38) Europe format with front panel (7 modular spacings)
Plug connector		Connector DIN 41612 – F 32
Ambient temperature	°C (°F)	operating temperature: 0 to +70 (32 to +158), storage temperature: –20 to +70° (–4 to +158)
Current rating		0811405157 max. 160 mA

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Digital closed-loop control electronics
VT-HACD-3

The VT-HACD-3-2X closed-loop control electronics is a module that is installed on a top hat rail. A microcontroller controls the entire process, makes adjustments, establishes links and realizes the closed control loops. Data for configuration, command values and parameters are stored in a FLASH in a non-volatile form.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Use as command value card for generating, linking and normalizing signals
- Use as controller card for closed loop control with PIDT1 controller and optional state feedback
- Alternating control possible (e.g. position control with superimposed pressure control)
- Configurable analog and discrete I/O
- Digital SSI or incremental position measuring system
- Possibility of sequence control through block call-ups with command values, ramp times and controller parameters
- PC software BODAC for configuration, parameterization and diagnostics
- Field bus systems: PROFIBUS DP or EtherNet IP

Detailed information:
- RE30543

Technical Data

Operating voltage	VDC	24
Command value signal	V	0 to 10; +/–10
	mA	0 to 20; 4 to 20
Output signal	V	0 to 10; +/–10
	mA	0 to 20; 4 to 20
Scanning time	m/sec	2
Serial interface		RS 232
Installation		DIN Rail mount
Dimensions	mm (in.)	120 x 55 x 118 (4.72 x 2.17 x 4.65) compact module
Ambient temperature range	°C (°F)	0 to +50 (0 to +122)

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Card holder
VT 3002

The VT-3002 card holder is available in either a 32-pin or 48-pin connection format (Form D or Form F). Individual screw terminals aid in robust field connections while the VT-3002 provides a stable platform to anchor field connections. Push buttons on each side permit releasing an amplifier board without incurring undue stress on an amplifier's faceplate.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Card holders allow the simple installation and wiring of individual electronic cards in Euro format, e.g. in switching cabinets
- Can be screwed on or snapped onto DIN rails
- Vertical mounting onto a DIN rail, possible with an additional adaptor (included within the scope of supply)
- Stable base
- Card locking and releasing by lever operation
- Connection via screw terminals

Detailed information:
- RE29928

Technical Data

Terminal voltage to VDE 0110 C		***U***	VAC	Max. 48 VAC/DC
Current loading capacity	– VT 3002-1-2X/32D	***I***	A	4 A
	– VT 3002-1-2X/32F	***I***	A	4 A
	– VT 3002-1-2X/48F	***I***	A	4 A
Cross-section connection		***A***		Plug-in screw terminals max. 4 mm^2
Connection type: (socket connection)	– VT 3002-1-2X/32D			32-pin socket connector, form D, DIN 41612
	– VT 3002-1-2X/32F			32-pin socket connector, form F, DIN 41612
	– VT 3002-1-2X/48F			48-pin socket connector, form F, DIN 41612
Pin allocation:	– VT 3002-1-2X/32D			Even numbered, rows a/c
	– VT 3002-1-2X/32F			Even numbered, rows b/z
	– VT 3002-1-2X/48F			Even numbered, rows d/b/z
Permissible ambient temperature range		ϑ	°C (°F)	–20 to +70 (–4 to +158)
Weight		***m***	kg (lbs.)	0.5/0.8 (1.1/1.8)

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Plug-in switching amplifier
VT-SSBA1

The VT-SSBA1 switching amplifier is directly mounted on the valve's K4 connector. It is supplied with 24 V direct voltage. As a fast switching amplifier, the VT-SSBA1 considerably reduces the switching time of standard directional valves in connection with 12 V solenoid coils. As a power reducer, the switching amplifier considerably reduces the holding current when using 24 V standard directional valves.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Control of hydraulic on/off valves with 12 V solenoids which are to be switched fast (fast switching amplifier)
- Energy saving due to power reduction when controlling hydraulic on/off valves with 24 V solenoids (power reducer)
- Suitable for controlling on/off valves of type WE6 and WE10 with 12 V or 24 V DC solenoids
- Potted-in cable with open end
- 3-conductor connection, power supply and release separated
- Short-circuit proof output
- Status display of the switching status by LED
- CE mark

Detailed information:
- RE30362

Technical Data

Max. operating temperature		°C (°F)	–20 to +60 (–4 to +140)
Operating voltage (nominal voltage)		U_B	24 V ± 10%
Holding current		I_{max}	2 A
Control Voltage (release "IN")	– ON	U_{IN}	10 to 30 V
	– OFF	U_{IN}	< 3.5 V
Switch-on repetition rate		f	≤ 1 Hz
Protection class according to EN 60529			IP 65, IP 67
Switch-on duration	– V001	t	100 to 115 *ms*
	– V002	t	300 to 315 *ms*
Pulse width modulation	– V001	%	40 ± 5% on
	– V002	%	60 ± 5% on

Type	Suitable for valve type
VT-SSBA1-PWM-1X/V001/5	
VT-SSBA1-PWM-1X/V002/5	WE6

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

3/3 proportional directional valves direct operated, with electrical position feedback as pilot valves for control systems SY(H)DFE
VT-DFP

The VT-DFP-A-2X/G24K0/0/V is the pilot control valve for the SYDFE1 system. In conjunction with amplifier VT5041, it controls the swashplate angle of the pump in either closed loop pressure or flow control. This valve is to be considered a part and not a complete control.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Pilot valve for the pressure and flow control system SY(H)DFE
- Actuation by means of a proportional solenoid with electrical feedback
- Control electronics:
  – VT-DFP (for SY(H)DFE1) → external analog amplifier VT 5041-3X/

Detailed information:
- RE29016

Technical Data

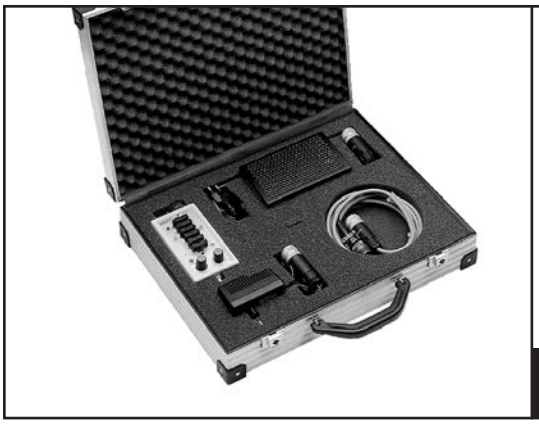
Type			VT-DFP
Operating pressure	Port A, P	bar (PSI)	350 (5100)
	Port T	bar (PSI)	100 (1450)
Control			External amplifier VT-5041-3X

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Service case with test unit for servo & proportional valves with integral electronics (OBE)

VT-VETSY-1



For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- The service case comprises a test unit, power supply unit 24 V, connecting cables and adapter cables (see ordering code)
- The test unit can be used to control and carry out functional tests on servo and proportional valves with integral electronics and operating voltages of ±15 V or +24 V
- Simplifies commissioning and troubleshooting in hydraulic systems with servo and proportional valves

Detailed information:
- RE29685

Technical Data

Service case			
Dimensions		(W x H x D)	450 x 100 x 350 mm (17.72 x 3.94 x 13.78 in.)
Weight	empty	kg (lb-ft)	2 (4.41)
	complete	kg (lb-ft)	4.3 (9.48)
Power supply			
Output			24 VDC; 3.75 A
Input			90–265 VAC; 47–63 Hz

See index Page 198 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Pressure transducer for hydraulic applications
HM20

The HM20 measures pressure and outputs voltage or current. It is suitable for closed loop (feedback) and most industrial applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Measuring pressures in hydraulic systems
- Conversion of the measured pressure into a standardized electric analog signal
- Sensor with thick-film measuring cell
- Components that are in contact with the media are of stainless steel
- Operational reliability due to high bursting pressure, reverse polarity, overvoltage and short-circuit protection
- Compact design
- Very good temperature behavior
- Accuracy class 0.5
- 4-pin M12 connector at the housing
- Hydraulic port G1/4A
- Protection class IP65/IP67
- UL approval; CE approval

Detailed information:
- RE30270

Technical Data

Operating voltage Residual ripple	U_S U_{PP}	16 to 36 VDC 2.5 V (40 to 400 Hz)		
Current consumption	I_{max}	6 mA (with voltage output)		
Measurement range	p_N – bar (PSI)	100 (1450)	250 (3600)	400 (5800)
Output signal and admissible load R_A	I_{Sig} U_{Sig}	4 to 20 mA, two-wire, $R_A = (U_S - 8.5\ V) / 0.02\ A$ with R_A in Ω and U_S in V 0.1 to 10 V, three-wire, $R_A > 20$ kΩ		
Accuracy		<0.5% Related to the complete measurement range, including non-linearity, hysteresis, zero point and end value deviation (corresponds to the measuring deviation according to IEC 61298-2)		
Temperature coefficient (TK) in the nominal temperature range for zero point and range		< 0.1% / 10 K		
Hysteresis		< 0.15%		
Non-repeatability		< 0.10%		
Setting time (10 to 90%)	t	< 1 ms		
Service life		40 million load cycles or 40000 h		
Shock resistance, mechanical		15 g according to IEC 60068-2-27		
Vibration resistance in case of resonance		10 g according to IEC 60068-2-6		
Electromagnetic compatibility (EMC)		DIN EN 61326-2-3		

See index Pages 198–199 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Mobile Electronics

BODAS Tools

The BODAS-service PC software tool provides a convenient and user-friendly method of executing service functions for BODAS controllers from Rexroth. Parameters can be displayed and edited, process variables displayed, and their values graphically plotted and recorded. In addition, error messages and configurable diagnostics are provided.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- User-friendly Windows user interface, freely configurable work flow and online help
- Simultaneous display of multiple parameters for modification settings
- Simultaneous display of multiple process variables in graphical or numeric form
- Printout of all settings and process variables for documentation purposes
- Clear and easy-to-understand display of error messages
- Easy-to-use data logger: Save measured values (process variables and parameters) to the hard disk
- Selectable and expandable program language
- Adjustable device language (relevant to controller data, up to 4 languages available)
- Diagnosis configurations for simplified troubleshooting”

Detailed information:
- RE95086

Technical Data

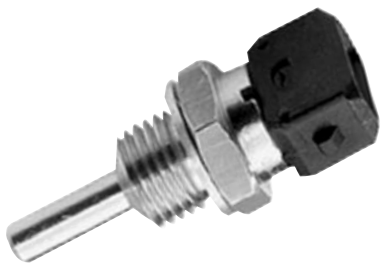
- Operating System:
  – Windows Vista
  – Windows 7 (only for BODAS-service. Not available for FT2 and BO-DEM)
- One free serial or CAN interface (depending on selected communications interface)
- One free USB interface (for license key - USB dongle)
- Available hard disk capacity > 200 MB
- Java runtime environment (installation occurs automatically)

See index Page 199 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Mobile Electronics

Fluid Temperature Sensor



The sensor element consists of a PTC nickel-thin-film resistor, vacuum-metalized onto a ceramic base. It enables the measurement of pressurized fluid temperatures of coolants, hydraulic oil or motor oil in vehicles. Its resistance increases virtually linearly with increases in temperature.

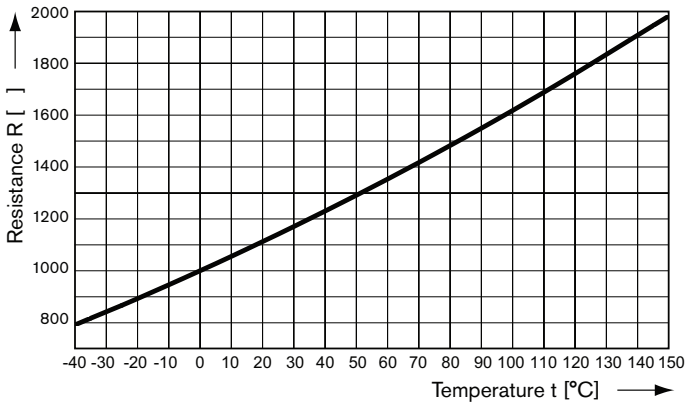
For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Technical Data

Detailed information:
- RE95180

Type	TSF
Measurement range	–40 °C to 150 °C
Pressure range	to 150 bar
Resistance at 0 °C	1000 Ω
Tolerance at 20 °C	± 0.5 K corresp. to ± 0.3 % of R_{20}
Tolerance at 100 °C	± 1.1 K corresp. to ± 0.5 % of R_{100}
Max. current allowed	5 mA
Time constant (in standing water)	11 s
Lag time	1 s
Vibration strength	40 g
Type of protection	IP 64 A with plug connector
Plug connection	Jet connector, 2-pin
Threaded socket	M14 x 1.5

Characteristic



See index Page 199 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Mobile Electronics

Analog Amplifier RA

The analog amplifier activates up to two proportional solenoids. The specified control voltage is processed in the amplifier as an input command signal. The analog amplifier provides a regulated electric current as an output signal for actuation of proportional solenoids.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- The electronic analog amplifier operates up to two proportional solenoids and a switching function:
- Optional interlock of actuation for proportional solenoids
- Supply voltage for external setpoint potentiometer
- Monitoring of setpoint potentiometer for cable breakage and short circuit
- Externally actuated switching output
- Error output
- Separately adjustable ramp times
- Overload protection, overvoltage protection, conditional short-circuit protection
- Separately adjustable Imin and Imax for every solenoid
- Externally adjustable PWM frequency

Detailed information:
- RE95230

Technical Data

		RA2-1
Nominal Voltage	12 and 24 V	
Residual ripple (DIN 40839, Section 1)	max. ± 2 V	X
Supply voltage, perm, range	10 … 32 V	
Current Consumption		
without load	mA	150
with load, max.	A	6
Fuse		
external: for switching and proportional solenoid outputs and for electronics	A T	7.5
Potentiometer Supply Voltage	0 V, 4.0 V	X
(for setpoint potentiometer 2 … 5 kΩ)	7.2 V … 8.4 V (depending on load)	
Voltage Input (differential amplifier)	4.0 V	2
(Setpoint voltage)		
Switch Input	> 5.0 V	1
Proportional Solenoid Outputs (PWM)		
Current range	0…2.3 A	2
Pulse frequency	100, 200 or 350 Hz	

See index Page 199 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Mobile Electronics

BODAS Components

The BODAS controllers RC are used for the programmable control of proportional solenoids and additional switching functions. They can therefore be used for both simple and complex open- or closed-loop controls, e.g. for hydrostatic travel drives, working hydraulics or transmission control in mobile working machines. BODAS controllers RC were specially developed for use in mobile working machines, and satisfy the relevant safety requirements with regard to ambient temperature, moisture, resistance to shock and vibration, as well as electromagnetic compatibility (EMC).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Component of BODAS system for mobile applications
- Robust design meeting specifications for mobile applications
- High electromagnetic compatibility (EMC)
- Inputs and outputs with fault detection
- Safety features such as redundant inputs and central safety cut-off for all outputs
- Pulse-width-modulated (PWM) solenoid currents for minimum hysteresis
- Closed-loop control of solenoid currents, i.e. not dependent on voltage and temperature
- Sturdy, sealed aluminum housing

Detailed information:
- RE95200
  RE95201

Technical Data

Nominal voltage		12 and 24 V	✓
Residual ripple (DIN 40839, Part 1)		max. ± 2 V	✓
Supply voltage, permitted range		9 – 32 V	✓
Current consumption			
Without load, maximum		mA	150
With load, maximum		A	8
Fuse	Internal:	–	
	External: for switch and proportional solenoid outputs	AT	8
	For electronics	AT	3
	For sensors	AT	1
Constant voltage source (e.g. for setpoint potentiometer 1 – 5 kΩ)		5 V ± 0.1 V, 30 mA	**2**
Analog voltage inputs (may also be used as switch input)		0 – 5	**2**
Analog current inputs (may also be used as switch input as well as analog voltage input)		0 – 20 mA and 0 – 8 V	**2**
Switch inputs			
May be switched between high/low active (may also be used as an analog voltage input as well as a frequency input)		low < 1.5 V; high > 4.5 V	4
Frequency inputs for inductive and active sensors (may also be used as switch input)		0 – 10 kHz; > 1 VRMS	**2**
Frequency inputs for DSM+HDD1 sensors (may also be used as switch input)		0 – 13.5 kHz	**2**
Resistor inputs for temperature sensors (may also be used as switch input)		800 Ω – 1800 Ω	**4**
Proportional solenoid outputs (PWM)			
Current range		0 – 2.3 A	2
Adjustable dither frequency		100 – 250 Hz	✓
Control frequency		1 kHz	✓
Switched outputs (MOSFET) (may also be used as PWM outputs)		max. 2 A	**2**
Interfaces	RS232	C	1
	CAN 2.0 B	ISO 11898	1

See index Page 199 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Tie Rod Cylinders

Hydraulic cylinder, NFPA industrial type
CDT

Rexroth offers you a well structured and systematically engineeredrange of hydraulic cylinders geared to your application requirements. Our CDT1/4 cylinders conform to NFPA standards regarding bore, rod, mounting, and length. Manufactured and assembled in the U.S.A., CDT1 cylinders are rated ro 1500 PSI and the CDT4 for 3000 PSI. A full array of bores and rod diameters cover the spectrum from 1" to 8".

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocylinders

Features

- Mounting of head and cap according to the tie rod principle
- Service-friendly modular system
- Small installation dimensions
- Interchangeability due to standardization
- Industry-specific and project-related cylinders on inquiry

Detailed information:
- RA17038
- RA17041

Technical Data

Series		CDT1	CDT4
Nominal pressure	PSI	1500	3000
Piston Ø	inch	1.00 to 8.00	1.50 to 8.00
Piston rod Ø	inch	1.00 to 8.00	0.63 to 5.50
Mounting types		18	19
Max. stroke length	inch	120	120
Max. stroke speed	in/sec	20	20

See index Pages 199–206 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Mobile Controls

Stackable single axis hydraulic pilot controllers
2TH6

Hydraulic pilot control units of the type 2TH6 operate on the basis of direct operated pressure reducing valves. Pressure in the relevent control port is proportional to the stroke of the control lever. This pressure control as a function of the control lever position and the characteristics of the control spring enables the proportional hydraulic control of directional valves and high response control valves for hydraulic pumps and motors.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomacontrols

Features

- Precise and play-free control characteristics
- Low actuation force at the lever
- Rust-free plunger
- Stackable single axis controllers, up to 6 controllers in one assembly
- Lever operator available “L” spring center, “P” friction detent, or “M” 3-position detent available
- Standard die-cast aluminum base or cast iron base for marine or underground applications

Detailed information:
- RE64552

Technical Data

2TH6		
Inlet pressure (max.)	bar (PSI)	50 (725)
Control flow (max.)	l/min (GPM)	16 (4.2)

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Check, poppet type
VUCN-08A

When pressure at 1 rises above the spring bias pressure, the poppet is lifted and flow allowed from 1 to 2. The valve is closed (checked) from 2 to 1. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 08

Detailed information:
- RE18318-89

Technical Data

Max. operating pressure	bar (PSI)	420 (6000)
Max. flow	l/min. (GPM)	50 (13)
Max. internal leakage	drops/min.	5
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	34–41 (25–30)
Weight	kg (lbs)	0.12 (0.27)
Cavity		CA-08A-2N see data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG08A2010520100 R901101437
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Check, poppet type
VUCN-10A

When pressure at 1 rises above the spring bias pressure, the poppet is lifted and flow allowed from 1 to 2. The valve is closed (checked) from 2 to 1. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18318-90

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min. (GPM)	80 (21)
Max. internal leakage	drops/min.	5
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight	kg (lbs)	0.15 (0.33)
Cavity		CA-10A-2N see data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A2010520100 R901111363
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 800 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Shuttle, ball type
SELB-08A

The single ball shuttle allows flow from the higher pressure of two work ports 1 and 3 to the 2 port.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18319-80

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	See performance graph in data sheet
Nominal size		DN 3
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	34–41 (25–30)
Weight	kg (lbs)	0.06 (0.13)
Cavity		CA-08A-3N See data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG08A3010520100 R930000861
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Relief, direct acting guided poppet type
VSBN-08A

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 08

Detailed information:
- RE18318-04

Technical Data

Max. operating pressure port 1 (P)	bar (PSI)	350 (5000)
Max. pressure permitted port 2 (T)	bar (PSI)	140 (2000)
Max. flow	l/min (GPM)	20 (5.3)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	34–41 (25–30)
Weight (**)	kg (lbs)	0.09 (0.2)
Cavity		CA-08A-2N see data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG08A2010520100 R901101437
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Max. to 80% of nominal setting
(**) Standard version X=03 type

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Relief, direct acting guided poppet type
VSBN-10A

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18318-05

Technical Data

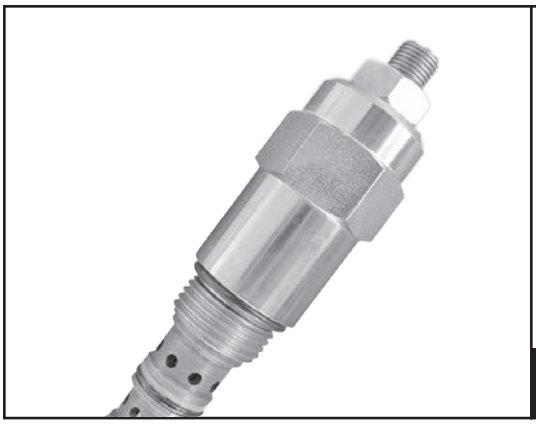
Max. operating pressure port 1 (P)	bar (PSI)	350 (5000)
Max. pressure permitted port 2 (T)	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	50 (13)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight	kg (lbs)	0.2 (0.44)
Cavity		CA-10A-2N see data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A2010530100 R901111366
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) At 80% of nominal setting

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Relief, direct acting poppet type differential area
VSDN-10A



Flow is blocked from 2 to 1 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 1 to tank. Pressure at port 1 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18318-03

Technical Data

Max. operating pressure port 2 (P)	bar (PSI)	350 (5000)
Max. pressure permitted port 1 (T)	bar (PSI)	140 (2000)
Max. flow	l/min (GPM)	120 (32)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight	kg (lbs)	0.2 (0.44)
Common cavity		CA-10A-2N see data sheet RE18325-70
Seal kit (**)	code material no.	RG10A2010520100 R901111363
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) at 80% of cracking pressure
(**) Only external seals for 10 valves

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Relief, pilot operated spool type
VSPN-10A

When pressure at 2 rises above the spring bias pressure, the poppet is pushed from its seat and flow is allowed from 2 to 1. The valve is normally closed (checked) from 1 to 2. When sufficient pilot pressure is present at port 3, the pilot piston acts to push the poppet from its seat and flow is allowed from 1 to 2. Precision machining and hardening processes allow virtually leak-free performance in the checked condition. Available with "manual override" option.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18318-08

Technical Data

Max. operating pressure port 1 (P)	bar (PSI)	420 (6000)
Max. pressure permitted port 2 (T)	bar (PSI)	350 (5000) for version 03 210 (3000) for version 04
Flow range	l/min (GPM)	3–120 (1–32)
Max. internal leakage (*)	cm^3/min. (cu.in./min.)	200 (12)
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight (**)	kg (lbs)	0.21 (0.46)
Cavity		CA-10A-2N see data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A2010530100 R901111366
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Measured at 200 bar (2900 PSI)
(**) Standard version X=03 type

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Relief, pilot operated spool type
VSPN-16A

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the main-stage piston (spool type), allowing it to shift and provide relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve. Pilot operation is protected from contamination by a filter screen at the bottom of the main piston.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 16

Detailed information:
- RE18318-10

Technical Data

Max. operating pressure port 1 (P)	bar (PSI)	420 (6000)
Max. pressure permitted port 2 (T)	bar (PSI)	140 (2000)
Flow range	l/min (GPM)	8–300 (2–79)
Max. internal leakage (*)	cu^3/min (cu.in./min.)	350 (21)
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	108–122 (80–90)
Weight (**)	kg (lbs)	0.45 (0.99)
Cavity		CA-16A-2N see data sheet RE18325-70
Seal kit (***)	code material no.	RG16A2010520100 R901111386
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Measured at 200 bar (2900 psi)
(**) Standard version X=03 type
(***) Only external seals for 10 valves

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Pressure reducing and relieving, direct acting spool type
VRPR-10A

Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the valve acts to restrict input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool. Additionally, if pressure at 1 rises above the pressure setting, flow is relieved to 3 until the setting is re-attained.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18318-53

Technical Data

Max. operating pressure port 2 (P)	bar (PSI)	350 (5000), 210 (3000) for version Z=01
Max. pressure permitted port 1 (T)	bar (PSI)	105 (1500)
Flow range	l/min (GPM)	30 (8)
Max. internal leakage (*)	cm^3/min. (cu.in./min.)	50 (3)
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight (**)	kg (lbs)	0.26 (0.57)
Cavity		CA-10A-3N, see data sheet RE18325-70
Seal kit (***)	code material no.	RG10A3010520100 R901111369
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) 1–3 to 80% of pressure setting
(**) Standard version X=03 type
(***) Only external seals for 10 valves

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Pressure reducing and relieving, pilot operated spool type
VRPX-10A

Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the conical poppet in the upper, pilot stage is lifted from its seat. This allows the main-stage piston to shift, restricting input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool. Additionally, if pressure at 1 rises above the pressure setting, flow is relieved to 3 until the setting is re-attained.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18318-56

Technical Data

Max. operating pressure port 2 (P)	bar (PSI)	350 (5000)
Max. pressure permitted port 1 (T)	bar (PSI)	280 (4000)
Max. flow	l/min (GPM)	60 (16)
Standard internal pilot orifice diameter	mm	0.6
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight (*)	kg (lbs)	0.2 (0.44)
Cavity		CA-10A-3N see data sheet RE18325-70
Seal kit (**)	code material no.	RG10A3010520100 R901111369
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Standard version X=03 type
(**) Only external seals for 10 valves

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Pilot operated check, pilot to open
VSON-08U

When pressure at 2 rises above the spring bias pressure, the poppet is pushed from its seat and flow is allowed from 2 to 1. The valve is normally closed (checked) from 1 to 2. When sufficient pilot pressure is present at port 3, the pilot piston acts to push the poppet from its seat and flow is allowed from 1 to 2. Precision machining and hardening processes allow virtually leak-free performance in the checked condition. Available with "manual override" option.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange, T11A

Detailed information:
- RE18319-39

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	60 (16)
Pilot ratio		3:2:1
Max. internal leakage	drops/min.	5
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	40–50 (30–37)
Weight	kg (lbs)	0.12 (0.27)
Cavity		SUN T-11A
Seal kit	code material no.	RG08U9020110100 R901193388
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

See index Page 207 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, standard poppet type, differential area, counterclockwise adjustment

VBSN-08U-RS

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting—turn clockwise to decrease setting), the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. Any back-pressure at 2 is additive to the pressure setting in all functions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange, T-11A

Detailed information:
- RE18320-17

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	60 (16)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	40–50 (30–37)
Weight	kg (lbs)	0.19 (0.42)
Cavity		SUN T-11A
Seal kit	code material no.	RG08U9020110100 R901193388
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

Pressure setting: at least 1.3 times the load induced pressure.
(*) At 70% of pressure setting

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, standard guided poppet type, counterclockwise adjustment

VBSN-08UU-RS

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting—turn clockwise to decrease setting), the direct-acting, relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The spring chamber is drained to 2, and any back-pressure at 2 is additive to the pressure setting in all functions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange, T-11A

Detailed information:
- RE18320-16

Technical Data

Max. operating pressure	bar (PSI)	280 (4000)
Max. flow	l/min (GPM)	30 (8)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	40–50 (30–37)
Weight	kg (lbs)	0.18 (0.4)
Cavity		SUN T-11A
Seal kit	code material no.	RG08U9020110100 R901193388
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

Pressure setting: at least 1.3 times the load induced pressure.
(*) At 70% of pressure setting

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, standard guided poppet type, differential area, counterclockwise adjustment

VBSN-12U-RS

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting—turn clockwise to decrease setting), the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. Any back-pressure at 2 is additive to the pressure setting in all functions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange, T-2A

Detailed information:
- RE18320-18

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	120 (32)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	60–70 (44–52)
Weight	kg (lbs)	0.37 (0.82)
Cavity		SUN T-2A
Seal kit	code material no.	RG12U9020110100 R930005599
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

Pressure setting: at least 1.3 times the load induced pressure.
(*) At 70% of pressure setting

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, relief compensated poppet type differential area, counterclockwise adjustment

VBSP-08U-RS

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting – turn clockwise to decrease setting), the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The valve applies a balanced piston design allowing relief operation at the valve setting independent of back-pressure at 2. However, the piloted opening of the valve remains subject to additive pressure at port 2.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange, T-11A

Detailed information:
- RE18320-20

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	60 (16)
Max. internal leakage (*)	drops/min	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	40–50 (30–37)
Weight	kg (lbs)	0.19 (0.42)
Cavity		SUN T-11A
Seal kit (**)	code material no.	RG08U9020110100 R901193388
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

Pressure setting: at least 1.3 times the load induced pressure.

(*) At 70% of pressure setting
(**) Only external seals for 10 valves

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, relief compensated poppet type differential area, counterclockwise adjustment

VBSP-12U-RS

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting – turn clockwise to decrease setting), the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The valve applies a balanced piston design allowing relief operation at the valve setting independent of back-pressure at 2. However, the piloted opening of the valve remains subject to additive pressure at port 2.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange, T-2A

Detailed information:
- RE18320-21

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	120 (32)
Max. internal leakage (*)	drops/min	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	60–70 (44–52)
Weight	kg (lbs)	0.37 (0.82)
Cavity		SUN T-2A
Seal kit (**)	code material no.	RG12U9020110100 R930005599
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

Pressure setting: at least 1.3 times the load induced pressure.

(*) At 70% of pressure setting
(**) Only external seals for 10 valves

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Flow control valve, cartridge restrictor
ST-C-06

Increasing the orifice value from fully closed to fully open, flow is permitted and regulated bi-directional from 1 to 2 and from 2 to 1.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 08

Detailed information:
- RE18321-26

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Rated flow	l/min. (GPM)	40 (11)
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	39–51 (29–38)
Weight	kg (lbs)	0.09 (0.2)
Cavity		CA-08A-2N see data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG08A2010530100 R901101544
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Flow control valve, cartridge restrictor
ST-C-10

Increasing the orifice value from fully closed to fully open, flow is permitted and regulated bi-directional from 1 to 2 and from 2 to 1.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18321-27

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Rated flow	l/min. (GPM)	70 (19)
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	44–56 (33–41)
Weight	kg (lbs)	0.18 (0.4)
Cavity		CA-10A-2N see data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A2010530100 R901111366
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Needle restrictor, free reverse flow
STVU-10A

With flow from 2 to 1, the valve provides a fully adjustable orifice restriction. Free flow is permitted from 1 to 2, regardless of valve adjustment, by when pressure overcomes the spring bias of the valve's check function.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18321-11

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	80 (22)
Max. internal leakage (*)	drops/min.	15 closed
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight	kg (lbs)	0.2 (0.44)
Cavity		CA-10A-2N See data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A2010520100 R901111363
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Measured at 200 bar (2900 PSI)

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Needle restrictor, free reverse flow, fine adjustment
STFU-08A

With flow from 2 to 1, the valve provides a fully adjustable orifice restriction. Free flow is permitted from 1 to 2, regardless of valve adjustment, by when pressure overcomes the spring bias of the valve's check function. STFU, compared to STVU, is suitable for applications requiring fine adjustments.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 08

Detailed information:
- RE18321-09

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	40 (11)
Max. internal leakage (*)	drops/min.	15 closed
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	34–41 (25–30)
Weight	kg (lbs)	0.16 (0.35)
Cavity		CA-08A-2N See data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG08A2010520100 R901101437
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm^2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Measured at 200 bar (2900 PSI)

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, spool 3-way / 2-position

VED-8I-32-06-SE & VED-7I-32-09-SE

Solenoid-operated, 3-way / 2-position, direct-acting, spool-type, cartridge valve. When de-energized, the valve permits bi-directional flow betwen ports 2 and 3, while blocking flow at port 1. When the coil is energized, the valve permits bi-directional flow betwen ports 2 and 1, while blocking flow at port 3.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 08 and Size 10

Detailed information:
- RE00162-02 (1.31.050.U & 1.31.070.U)

Technical Data

		Size 08, VED-8I	Size 10, VED-7I
Max. operating pressure	bar (PSI)	210 (3000)	210 (3000)
Rated flow	l/min. (GPM)	10 (3)	20 (6)
Max. internal leakage	cm^3/min (in^3/min)	40 (2.5) @ 3000 PSI	80 (4.9) @ 3000 PSI
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	39–51 (29–37)	44–56 (33–41)
Weight	kg (lbs)	0.13 (0.286)	0.22 (0.485)
Cavity		CA-08A-3N	CA-10A-3N
Line bodies		See Accessories, page 140	
Seal kit	code material no.	RG08A301053010 R901101723	RG10A3010530100 R930000990
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)	
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Mounting position		Unrestricted	
Other Technical Data		See data sheet RE18350-50	

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, spool 4-way / 3-position

VED-7I-43-09-CC

Solenoid-operated, 4-way / 3-position, direct-acting, spool-type, blocked center, cartridge valve. Port 3 is to be connected to the pressure supply to the cartridge, and port 1 must be connected to the tank, or return, line. When de-energized, the valve blocks flow at all ports. When coil S1 is energized, the valve permits flow from port 3 to port 4 and from port 2 to port 1. When coil S2 is energized, the valve permits flow from port 3 to port 2 and from port 4 to port 1.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE00162-02 (1.43.070.U)

Technical Data

Max. operating pressure	bar (PSI)	210 (3000)
Rated flow	l/min. (GPM)	20 (6)
Max. internal leakage	cm^3/min (in^3/min)	120 (7.3) @ 3000 PSI
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	44–56 (33–41)
Weight	kg (lbs)	0.27 (0.595)
Cavity		CA-10A-3N
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A4010530100 R901111373
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Mounting position		Inrestricted
Other Technical Data		See data sheet RE18350-50

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, spool 4-way / 3-position

VED-7I-43-09-ABT

Solenoid-operated, 4-way / 3-position, direct-acting, spool-type, motor-spool center, cartridge valve. Port 3 is to be connected to the pressure supply to the cartridge, and port 1 must be connected to the tank, or return, line. When de-energized, the valve blocks flow at port 3 and connects ports 1, 2 and 4. When coil S1 is energized, the valve permits flow from port 3 to port 4 and from port 2 to port 1. When coil S2 is energized, the valve permits flow from port 3 to port 2 and from port 4 to port 1.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE00162-02 (1.43.170.U)

Technical Data

Max. operating pressure	bar (PSI)	210 (3000)
Rated flow	l/min. (GPM)	20 (6)
Max. internal leakage	cm^3/min (in^3/min)	120 (7.3) @ 3000 PSI
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	44–56 (33–41)
Weight	kg (lbs)	0.27 (0.595)
Cavity		CA-10A-3N
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A4010530100 R901111373
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm2/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Mounting position		Inrestricted
Other Technical Data		See data sheet RE18350-50

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally closed

VEI-8A-06-NC

Solenoid-operated, 2-way / 2-position, normally closed, pilot operated, poppet-type, cartridge valve. When de-energized, flow is permitted across the check valve function from port 1 to 2, and blocks flow leak-free from port 2 to 1. When the coil is energized, the valve allows bi-directional flow between both ports.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 08

Detailed information:
- RE18323-02

Technical Data

General		
Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	–30 to 60 (–22 to 140)

Hydraulic		
Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5–40 (0.1–11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	–20 to 80 (–4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)
Installation torque	Nm (ft-lbs)	39–51 (29–38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N (version 4: 019-E)

Line bodies		See Accessories, page 140
Seal kit version 1	code material no.	RG08A2010520100 R901101437
Seal kit version 2-3	code material no.	RG08A2010530100 R901101544
Seal kit version 4	code material no.	RG19E201053010 R934003561
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE18350-50

Electrical		
Type of voltage		DC voltage
Coil type		S8-356 see RE18325-90
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE18325-90

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally open

VEI-8A-06-NA

Solenoid-operated, 2-way / 2-position, normally open, pilot operated, poppet-type, cartridge valve. When de-energized, the valve allows bi-directional flow between both ports. When the coil is energized, flow is permitted across the check valve function from port 1 to 2, and blocks flow leak-free from port 2 to 1.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 08

Detailed information:
- RE18323-06

Technical Data

General		
Weight	kg (lbs)	0.12 (0.26)
Installation orientation		Optional
Ambient temperature range	°C (°F)	–30 to 60 (–22 to 140)

Hydraulic		
Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	1.5–40 (0.4–11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	–20 to 80 (–4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)
Installation torque	Nm (ft-lbs)	39–51 (29–38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N / 019-E see RE18325-75

Line bodies		See Accessories, page 140
Seal kit version 1	code material no.	RG08A2010520100 R901101437
Seal kit version 2-3	code material no.	RG04A2010530100 R901101544
Seal kit version 4	code material no.	RG19E201053010 R934003561
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE18350-50

Electrical		
Type of voltage		DC voltage
Coil type		S8-356 see RE18325-90
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE18325-90

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally closed

VEI-8A-10-NC

Solenoid-operated, 2-way / 2-position, normally closed, pilot operated, poppet-type, cartridge valve. When de-energized, flow is permitted across the check valve function from port 1 to 2, and blocks flow leak-free from port 2 to 1. When the coil is energized, the valve allows bi-directional flow between both ports.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18323-11

Technical Data

General		
Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	–30 to 60 (–22 to 140)

Hydraulic		
Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2–70 (0.5–18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	–20 to 80 (–4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)
Installation torque	Nm (ft-lbs)	44–56 (33–42)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity		CA-10A-2N see RE18325-75
Line bodies		See Accessories, page 140
Seal kit version 1	code material no.	RG10A2010520100 R901111363
Seal kit version 2-3	code material no.	RG10A2010530100 R901111366
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE18350-50

Electrical		
Type of voltage		DC voltage
Coil type		S8-356 see RE18325-90
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE18325-90

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally open

VEI-8A-10-NA

Solenoid-operated, 2-way / 2-position, normally open, pilot operated, poppet-type, cartridge valve. When de-energized, the valve allows bi-directional flow between both ports. When the coil is energized, flow is permitted across the check valve function from port 1 to 2, and blocks flow leak-free from port 2 to 1.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 10

Detailed information:
- RE18323-12

Technical Data

General		
Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	–30 to 60 (–22 to 140)

Hydraulic		
Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2–70 (0.5–18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	–20 to 80 (–4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)
Installation torque	Nm (ft-lbs)	44–56 (33–42)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity		CA-10A-2N see RE18325-75
Line bodies		See Accessories, page 140
Seal kit version 1	code material no.	RG10A2010520100 R901111363
Seal kit version 2-3	code material no.	RG10A2010530100 R901111366
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE18350-50

Electrical		
Type of voltage		DC voltage
Coil type		S8-356 see RE18325-90
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE18325-90

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally closed

VEI-8A-16A-NC

Solenoid-operated, 2-way / 2-position, normally closed, pilot operated, poppet-type, cartridge valve. When de-energized, flow is permitted across the check valve function from port 1 to 2, and blocks flow leak-free from port 2 to 1. When the coil is energized, the valve allows bi-directional flow between both ports.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 16

Detailed information:
- RE18323-17

Technical Data

General		
Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	–30 to 60 (–22 to 140)

Hydraulic		
Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min. (gpm)	5–150 (1–40)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	–20 to 80 (–4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)
Installation torque	Nm (ft-lbs)	80–100 (59–74)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-2N see RE18325-75

Line bodies		See Accessories, page 140
Seal kit version 1	code material no.	RG16A2010520100 R901111386
Seal kit version 2-3	code material no.	RG16A2010530100 R930003262
Seal kit coil	code material no.	RG12A1PNBR7000 R934003591
Other technical data		See data sheet RE18350-50

Electrical		
Type of voltage		DC voltage
Coil type		S8-356 see RE18325-90
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE18325-90

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally open

VEI-8A-16A-NA

Solenoid-operated, 2-way / 2-position, normally open, pilot operated, poppet-type, cartridge valve. When de-energized, the valve allows bi-directional flow between both ports. When the coil is energized, flow is permitted across the check valve function from port 1 to 2, and blocks flow leak-free from port 2 to 1.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity, Size 16

Detailed information:
- RE18323-18

Technical Data

General		
Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	–30 to 60 (–22 to 140)

Hydraulic		
Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5–150 (1–40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	–20 to 80 (–4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)
Installation torque	Nm (ft-lbs)	80–100 (59–74)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity		CA-16A-2N see RE18325-75
Line bodies		See Accessories, page 140
Seal kit version 1	code material no.	RG16A2010520100 R901111386
Seal kit version 2-3	code material no.	RG16A2010530100 R930003262
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE18350-50

Electrical		
Type of voltage		DC voltage
Coil type		S8-356 see RE18325-90
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE18325-90

Note: Coils must be ordered separately.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Inlet plate – basic

TA-00

The inlet elements TA-00-__ are employed to connect the external P, T lines to the P, T channels inside the ED elements of the Directional Valve Assembly and to connect to the LS ports of the elements equipped with LS channels.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Port sizes: P and T – SAE 8; LS and G – SAE 4.
- Includes a test point port “G” for pressure gauge connection.
- Special plating and coating availabe, C.F.

Detailed information:
- RA18300-01

Technical Data

Maximum pressure	bar (PSI)	210 (3000)*
Maximum inlet flow	l/min (GPM)	60 (15)
Material		Aluminum
Seals		NBR
Fluide temperature	°C (°F)	–20 to +80 (–4 to +176)

*For higher pressure, C.F.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Inlet plate – relief and dump
TA-05

The inlet elements TA-05-__ are employed to connect the external P and T lines to the P and T channels inside the ED elements of the Directional Valve Assembly. They incorporate a pressure relief cartridge which limits the primary pressure in the P line. The relief setting can be checked through the Test Point port G.

When fitted, the Normally Open Solenoid Unloading VEI Cartridge unloads to Tank all the P line flow; unloading stops when the cartridge coil is energized.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Port sizes: P and T – SAE 8; LS and G – SAE 4.
- Ports LS and G are provided with plugs.
- Special plating and coating available, C.F.

Detailed information:
- RA18300-05

Technical Data

Maximum pressure	bar (PSI)	210 (3000)*
Maximum inlet flow	l/min (GPM)	60 (15)
Material		Aluminum
Seals		Buna N (NBR)
Fluide temperature	°C (°F)	–20 to +80 (–4 to +176)

*For higher pressure, C.F.

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

4/3 4/2 Directional valve elements with or without secondary relief valves, with or without LS connections

L8_10… (ED1-Z)

The sandwich plate design directional valve elements L8_10… are compact direct operated solenoid valves which control the start, the stop and the direction of the oil flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Valve elements with solenoid operated directional spool
- Control spools operated by screwed-in solenoids with extractable coils
- In the de-energized condition, the control spool is held in the central position by return springs
- Wet pin tubes for DC coils, with push rod for mechanical override; nickel plated surface
- Coils can be rotated 360° around the tube; they can be energized by AC current through special connectors with rectifier (RAC).
- Manual override (push-button or screw type) available upon request.
- Plug-in connectors available: EN 175301-803 (Was DIN 43650); AMP Junior; DT04-2P (Deutsch), free leads.

Detailed information:
- RA18301-01

Technical Data

General		
Valve element with 2 solenoids	kg (lbs)	1.55 (3.42)
Valve element with 1 solenoid	kg (lbs)	1.25 (2.76)
Valve element with 2 solenoid with lever override	kg (lbs)	1.9 (4.2)
Valve element with 1 solenoid with lever override	kg (lbs)	1.6 (3.5)
Ambient Temperature	°C (°F)	–20....+50 (–4....+122) [NBR seals]

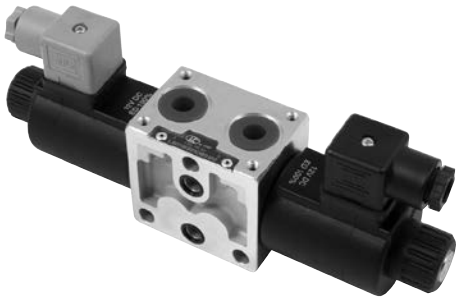
Hydraulic		
Maximum pressure at P, A, and B ports	bar (PSI)	310 (4500)
Maximum dynamic pressure at T	bar (PSI)	180 (2610)
Maximum dynamic pressure, with lever type emergency at T	bar (PSI)	100 (1450)
Maximum static pressure at T	bar (PSI)	210 (3045)
Maximum inlet flow	l/min (GPM)	30 (7.9)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	–20....+80 (–4....+176) [NBR seals]
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: class 20/18/15 NAS 1638: class 9
Viscosity range	mm^2/s	5....420

See index Pages 208 & 209 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

4/3 4/2 Directional valve elements with or without secondary relief valves, with or without LS connections

L8_11… (ED2-DZ)



The sandwich plate design directional valve elements L8_11… are compact direct operated solenoid valves which control the start, the stop and the direction of the oil flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Valve elements with solenoid operated directional spool
- Control spools operated by screwed-in solenoids with extractable coils
- In the de-energized condition, the control spool is held in the central position by return springs.
- Wet pin tubes for DC coils, with push rod for mechanical override; nickel plated surface
- Coils can be rotated 360° around the tube; they can be energized by AC current through special connectors with rectifier (RAC)
- Manual override (push-button or screw type) available upon request
- Plug-in connectors available: EN 175301-803 (Was DIN 43650); AMP Junior; DT04-2P (Deutsch), free leads.

Detailed information:

- RA18301-02

Technical Data

General		
Valve element with 2 solenoids	kg (lbs)	1.95 (4.3)
Valve element with 1 solenoid	kg (lbs)	1.45 (3.2)
Valve element with 2 solenoid with lever override	kg (lbs)	2.2 (4.85)
Valve element with 1 solenoid with lever override	kg (lbs)	1.7 (3.75)
Ambient Temperature	°C (°F)	–20....+50 (–4....+122) [NBR seals]

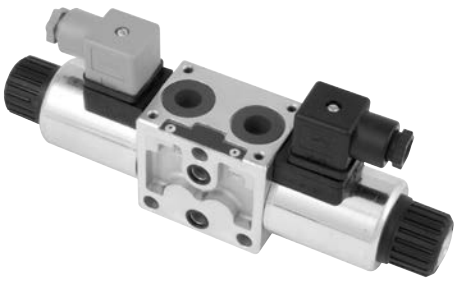
Hydraulic		
Maximum pressure at P, A, and B ports	bar (PSI)	310 (4500)
Maximum dynamic pressure at T	bar (PSI)	250 (3625)
Maximum dynamic pressure, with lever override at T	bar (PSI)	100 (1450)
Maximum static pressure at T	bar (PSI)	310 (4500)
Maximum statuc pressure, with lever override at T	bar (PSI)	290 (4200)
Maximum inlet flow	l/min (GPM)	50 (13.2)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	–20....+80 (–4....+176) [NBR seals]
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: class 20/18/15 NAS 1638: class 9
Viscosity range	mm^2/s	5....420

See index Pages 208 & 209 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

4/3 – 4/2 Directional valve elements proportional controls and with or without LS connections

L8_80… (ED4-P)



The sandwich plate design directional valve elements L8080… are compact direct operated proportional solenoid valves which control the start, the stop, the direction and the quantity of the oil flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Valve element with direct proportional control of spool
- Control spool operated by screwed-in solenoid with extractable coil
- In the de-energized condition, the control spool is held in the central position by return springs.
- Wet pin proportional tubes for DC coils, with push rod for mechanical override; nickel plated surface
- Manual override (push-button or screw type) available upon request
- Plug-in connectors available: EN 175301-803 (Was DIN 43650) and DT04-2P (Deutsch)

Detailed information:
- RA18301-06

Technical Data

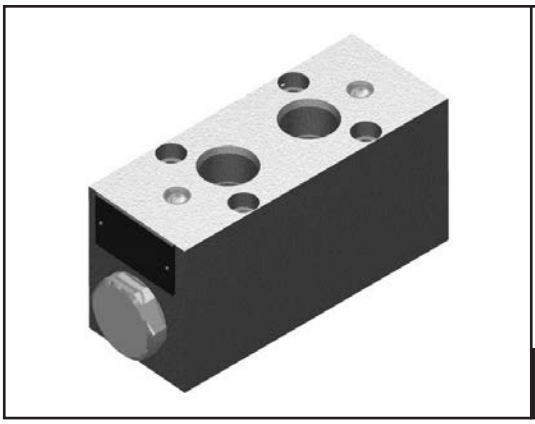
General		
Valve element with 2 solenoids	kg (lbs)	2.20 (4.85)
Valve element with 1 solenoid	kg (lbs)	1.70 (3.75)
Ambient Temperature	°C (°F)	–20....+50 (–4....+122) [NBR seals]

Hydraulic		
Maximum pressure at P	bar (PSI)	310 (4500)
Maximum dynamic pressure at T	bar (PSI)	210 (3050)
Maximum static pressure at T	bar (PSI)	250 (3625)
Maximum inlet flow	l/min (GPM)	45 (11.9)
Nominal flow with $\Delta P = 10$ bar	l/min (GPM)	10, 20, 30 (2.64, 5.28, 7.9)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	–20....+80 (–4....+176) [NBR seals]
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: class 20/18/15 NAS 1638: class 9
Viscosity range	mm^2/s	20....380 (optimal 30....46)

See index Pages 208 & 209 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Stacking modules, pilot operated check
EDM-PO



The secondary flangeable elements EDM-PO-__ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly.

They incorporate two Cross Piloted Check Valves which allow free flow toward the A and B outlet ports, and lock in a leak free mode the flow returning from the actuator, until sufficient pilot pressure is built up in the opposite line and the check valve is opened.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Hydraulic port sizes: A and B – SAE 8.
- Special coating and plating available, C.F.

Detailed information:
- RA18301-40

Technical Data

General		
Ambient Temperature	°C (°F)	–20....+50 (–4....+120)
Material		Aluminum

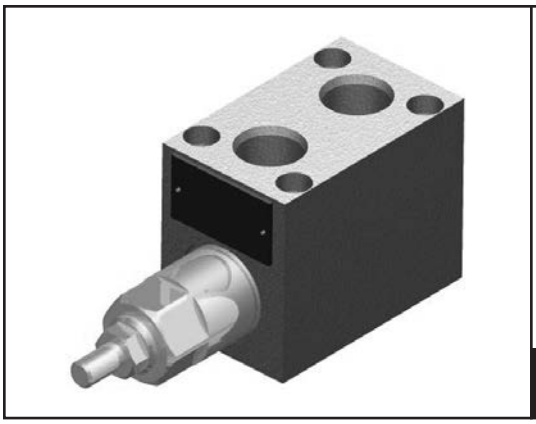
Hydraulic		
Maximum pressure	bar (PSI)	210 (3000)
Maximum flow	l/min (GPM)	60 (15)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	–20....+80 (–4....+176) [NBR]
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: classe 20/18/15 NAS 1638: classe 9
Viscosity range	mm^2/s	5....420

*310 bar (4500 PSI) available. Consult factory.

See index Page 209 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Stacking modules, cross-over relief
EDM-CR



The secondary flangeable elements EDM-CR-__ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly.

The body consists of one direct acting pressure relief valve. The relief valve for line A releases the oil into line B and vice versa.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Port sizes: A and B – SAE 8
- Special coating and plating available, C.F.

Detailed information:
- RA18301-41

Technical Data

General		
Ambient Temperature	°C (°F)	–20....+50 (–4....+120)
Material		Aluminum

Hydraulic				
		AB	**0A**	**0B**
Maximum pressure	bar (PSI)	210 (3000)	210 (3000)	210 (3000)
Maximum flow	l/min (GPM)	60 (15)	50 (13)	60 (15)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.		
Fluid Temperature	°C (°F)	–20....+80 (–4....+176) [NBR]		
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: classe 20/18/15 NAS 1638: classe 9		
Viscosity range	mm^2/s	5....420		

*310 bar (4500 PSI) available. Consult factory.

See index Page 209 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Exit plate, basic
TC-...

The exit plate TC… is employed as end plates to plug the P and T channels of the ED element of the Directional Valve Assembly, or to provide an extra port for P, T, or P and T.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Port sizes are available in SAE 6 and SAE 8

Detailed information:
- RA18301-60

Technical Data

General		
Weight (w/o ports & SAE 6)	kg (lbs)	0.3 (0.66)
Weight (SAE 8)	kg (lbs)	0.5 (1.10)
Ambient Temperature	°C (°F)	–20....+50 (–4....+120) [NBR seals]

Hydraulic		
Maximum pressure (TC0000)	bar (PSI)	250 (3600)*
Maximum pressure	bar (PSI)	210 (3000)*
Maximum flow	l/min (GPM)	60 (15)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	–20....+80 (–4....+176) [NBR seals]
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: classe 20/18/15 NAS 1638: classe 9
Viscosity range	mm^2/s	5....420

*310 bar (4500 PSI) available. Consult factory.

See index Page 209 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Power packs, fixed displacement
PP

PP Standard Power Packs utilize external gear pumps with standard industrial keyed shaft. Motors can be run at 60Hz/1750RPM/208-230/460V or 50Hz/1425RPM/190-208/380-416V. Motors are NEMA frame with female shaft.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopowerpacks

Features

- Powder coated steel reservoir
- System relief valve & Gauge
- One station D03 aluminum bar manifold
- PP5 = 10μ absolute. PP10, 20 = 16μ absolute – in-tank return filter/filler/breather
- Check valve in pressure line
- Spare in-tank return down-line

Detailed information:
- RA09788

Technical Data

Model Code	Reservoir Size G (l)	Pump Flow GPM (lpm)*	Max. Pressure PSI (bar)**	Motor HP (kw)
PP5/G2004/2/3BM1/H0/L0	5 (18.9)	1.9 (7.2)	1534 (106)	2.0 (1.5)
PP5/G2004/3/3BM1/H0/L0	5 (18.9)	1.9 (7.2)	2300 (159)	3.0 (2.2)
PP5/G2004/5/3BM1/H0/L0	5 (18.9)	1.9 (7.2)	3625 (250)†	5.0 (3.7)
PP5/G2005/2/3BM1/H0/L0	5 (18.9)	2.6 (9.8)	1121 (77)	2.0 (1.5)
PP5/G2005/3/3BM1/H0/L0	5 (18.9)	2.6 (9.8)	1681 (116)	3.0 (2.2)
PP5/G2005/5/3BM1/H0/L0	5 (18.9)	2.6 (9.8)	2802 (193)	5.0 (3.7)
PP10/G2005/2/3BM1/H0/L0	10 (37.9)	2.6 (9.8)	1121 (77)	2.0 (1.5)
PP10/G2005/3/3BM1/H0/L0	10 (37.9)	2.6 (9.8)	1681 (116)	3.0 (2.2)
PP10/G2005/5/3BM1/H0/L0	10 (37.9)	2.6 (9.8)	2802 (193)	5.0 (3.7)
PP10/G2008/2/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	767 (53)	2.0 (1.5)
PP10/G2008/3/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	1150 (79)	3.0 (2.2)
PP10/G2008/5/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	1917 (132)	5.0 (3.7)
PP10/G2008/7.5/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	2875 (198)	7.5 (5.6)
PP20/G2011/3/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	841 (58)	3.0 (2.2)
PP20/G2011/5/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	1401 (97)	5.0 (3.7)
PP20/G2011/7.5/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	2101 (145)	7.5 (5.6)
PP20/G2011/10/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	2802 (193)	10.0 (7.5)
PP20/G2016/5/3BM1/H0/L0	20 (75.7)	7.6 (28.8)	958 (66)	5.0 (3.7)
PP20/G2016/7.5/3BM1/H0/L0	20 (75.7)	7.6 (28.8)	1438 (99)	7.5 (5.6)
PP20/G2016/10/3BM1/H0/L0	20 (75.7)	7.6 (28.8)	1917 (132)	10.0 (7.5)

* Based on 1750 RPM, and 100% volumetric efficiency; actual flow will be lower.

** All max pressures reflect an 85% overall efficiency (1.15 SF not included in calculation).

† Limited by maximum continuous pressure of pump.

See index Page 209 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Close-coupled motor pump groups, fixed displacement
MPGB-AZP

Close-Coupled Motor Pump Groups type MPGB-AZP come fully assembled from our factory. Pumps are external gear type, standard industrial keyed shaft. Motors are NEMA frame, femal shaft, and can be run at 60 Hz/1750 RPM/208–230/460 V or 50 Hz/1425 RPM/ 190–208/380–416 V.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopowerpacks

Features

- Eliminate the need for multiple vendors by giving you one source of supply
- Closed-coupled feature dramatically reduces the overall length of the motor pump group
- Motor pump groups can be mounted horizontally or vertically

Detailed information:
- RA12750

Technical Data

Model Code	Pump Size in^3/rev (cc/rev)	Pump Flow GPM (l/min)*	Max. Pressure PSI (bar)**	Motor		Connection sizes
				HP (kW)	Frame	
MPGB002HTYZ4DEOFS1HAZPF12004K1NN	0.24 (4.0)	1.9 (7.2)	1534 (106)	2.0 (1.5)	145TYZ	Suction = SAE-10 Pressure = SAE-8
MPGB003HTYZ4DEOFS1HAZPF12004K1NN	0.24 (4.0)	1.9 (7.2)	2300 (159)	3.0 (2.2)	145TYZ	
MPGB005HTYZ4DEOFS1HAZPF12004K1NN	0.24 (4.0)	1.9 (7.2)	3625 (250)†	5.0 (3.7)	184TYZ	
MPGB002HTYZ4DEOFS1HAZPF12005K1NN	0.34 (5.5)	2.6 (9.8)	1121 (77)	2.0 (1.5)	145TYZ	Suction = SAE-10 Pressure = SAE-8
MPGB003HTYZ4DEOFS1HAZPF12005K1NN	0.34 (5.5)	2.6 (9.8)	1681 (116)	3.0 (2.2)	145TYZ	
MPGB005HTYZ4DEOFS1HAZPF12005K1NN	0.34 (5.5)	2.6 (9.8)	2802 (193)	5.0 (3.7)	184TYZ	
MPGB002HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	767 (53)	2.0 (1.5)	145TYZ	Suction = SAE-12 Pressure = SAE-10
MPGB003HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	1150 (79)	3.0 (2.2)	145TYZ	
MPGB005HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	1917 (132)	5.0 (3.7)	184TYZ	
MPGB7.5HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	2875 (198)	7.5 (5.6)	213TYZ	
MPGB003HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	841 (58)	3.0 (2.2)	145TYZ	Suction = SAE-12 Pressure = SAE-10
MPGB005HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	1401 (97)	5.0 (3.7)	184TYZ	
MPGB7.5HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	2101 (145)	7.5 (5.6)	213TYZ	
MPGB010HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	2802 (193)	10.0 (7.5)	215TYZ	
MPGB005HTYZ4DEOFS1HAZPF12016K1NN	0.98 (16.0)	7.6 (28.8)	958 (66)	5.0 (3.7)	184TYZ	Suction = SAE-16 Pressure = SAE-10
MPGB7.5HTYZ4DEOFS1HAZPF12016K1NN	0.98 (16.0)	7.6 (28.8)	1438 (99)	7.5 (5.6)	213TYZ	
MPGB010HTYZ4DEOFS1HAZPF12016K1NN	0.98 (16.0)	7.6 (28.8)	1917 (132)	10.0 (7.5)	215TYZ	

* Based on 1750 RPM, and 100% volumetric efficiency; actual flow will be lower.
** All max pressures reflect an 85% overall efficiency (1.15 SF not included in calculation).
† Limited by maximum continuous pressure of pump.

See index Pages 209–210 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Close-coupled motors
MTRB

Close-Coupled Motors are NEMA frame, female shaft to accomodate SAE A (2-bolt flange 82-2 A SAE J744) pumps. Can be run at 60 HZ/1750 RPM/208-230/460 V or 50 Hz/1425 RPM/190-208/380-416 V.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopowerpacks

Features

- Close-coupled feature dramatically reduces the overall length of the motor pump group
- Eliminates the expense of a bellhousing
- Can be mounted horizontally or vertically

Detailed information:
- RA12750

Technical Data

Model Code	HP (KW)	Frame
MTRB2H1450/1800R145TYZ50/60HZ F1 SAE A	2.0 (1.5)	145TYZ
MTRB3H1450/1800R145TYZ50/60HZ F1 SAE A	3.0 (2.2)	145TYZ
MTRB5H1450/1800R184TYZ50/60HZ F1 SAE A	5.0 (3.7)	184TYZ
MTRB7.5H1450/1800R213TYZ50/60HZ F1 SAE A	7.5 (5.6)	213TYZ
MTRB10H1450/1800R215TYZ50/60HZ F1 SAE A	10.0 (7.5)	215TYZ

See index Page 210 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Pre-assembled Filter/Cooler Module
MFC3

The MFC3 is a compact off-line filtration/ cooling package, which provides numerous mounting and configuration options. The design allows for multiple selections of AC motors, pumps, filter elements, and auxiliary components. The modular design concept permits field upgrades concerning oil flow, filtration, or configuration with minimal labor and cost.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopowerpacks

Features

- Off line does not interrupt production
- Versatile / Simple Modular design concept
- Space saving vertical designs
- Durable common base construction
- Multiple mounting and configurations
- Multiple pump, and filter element selections
- Dual frequency motor windings standard
- Stainless Steel, plate style heat exchangers
- Single supply source
- Extensive international distribution and service

Detailed information:
- RA50127

Technical Data

See data sheet RA50127 for detailed Technical Data. All part numbers listed in RA50127 are included in ***GoTo***.

See index Pages 210–211 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accumulators

Bladder-type accumulators
HAB

The HAB design is a hydro-pneumatic type accumulator with compressed nitrogen separated from hydraulic fluid by means of an elastomeric bladder. The current generation of bladder accumulators from Bosch Rexroth carries the HAB-5X designation. The HAB product line is available in many different configurations needed to meet the stringent demands of today's market.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccumulators

Features

- Hydraulic accumulator according to ASME Section VIII pressure vessel code
- Bladder materials for different applications
- Two piece gas valve design on 2.5 gallon and larger units improves serviceability

Use:
- Energy storing in systems with intermittent operation
- Energy reserve for emergencies
- Compensation for leakage losses
- Impact and vibration damping
- Compensation of flow in the case of changes in pressure and temperature

Detailed information:
- RA51350

Function & Performance Data

Bottom Repairable, 3K	Nominal volume (GAL)	1 QT	1 G	2.5 G	5 G	10 G	15 G
	Effective gas volume (L)	1.2	3.8	9.8	19.7	37.0	56.4
	Max operating pressure (PSI)	3000	3000	3000	3000	3000	3000
Operating Temperature	Nitrile, Buna-n (NBR)	5 °F to 212 °F					
Flow Output (Standard SAE fluid port, max. flow rate dependant on fluid viscosity and accumulator orientation.)	Nominal volume (GAL)	1 QT	1 G	2.5 G	5 G	10 G	15 G
	Max flow rate (GPM)	30	80	160	160	160	160
Pre-Charge Ratio Limitation	Maximum ratio of system pressure to pre-charge pressure, 4:1						
Installation Position	Recommended vertical with gas side up, other positions may reduce accumulator performance and bladder life						
Fluid	Mineral oils to DIN 51524, HFC to ISO 12922, other fluids compatible with bladder compounds listed.						
Gas	Nitrogen gas with typical purity 99.99%						

Accumulator Charge Kit & Clamps

For detailed information, see RA51350.

R978046091	ACCUM CHARGE KIT HAB-5X	Supplied with two pressure gauges, 2000 PSI and 5000 PSI.
R978044766	ACCUM CLAMP HAB-5X 10-50L 3K PSI	
1531316021	CLAMPING BANDTIGHT 110-120 MM	
1531316022	CLAMPING BANDTIGHT 160-170 MM	

See index Page 211 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accumulators

Diaphragm-type accumulators
HAD

The HAD design is a hydro-pneumatic type accumulator that utilizes compressed nitrogen to supply fluid to the hydraulic system. The nitrogen and hydraulic fluid are separated by means of an elastomeric membrane. HAD units are the diaphragm welded non-repairable type that can be supplied in both non-rechargeable and chargeable versions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccumulators

Features

- Hydraulic accumulator according to Pressure Equipment Directive 97/23/EC
- HAD sizes range from 0.075L to 3.5L
- HAD pressure rating 250 bar on most sizes, with special options available up to 350 bar.
- HAD units are economical solutions for pulsation dampening and energy storage applications where only a small volume of usable fluid is required.
- Very compact design allows for the use of the HAD product in the smallest of locations, industrial or mobile hydraulic in nature.
- Multiple elastomer options for many different fluid and temperature driven applications.
- Multiple fluid port options are available such as UNF, NPT, BSPP, and metric M threaded designs.
- Two gas valve options are available for pre-charging, the standard Schrader valve type common for the US market (7/8”-14UNF connection) and the European standard M28 threaded connection.

Detailed information:
- RE50150

Function & Performance Data

Capacity Liters (cu-in)	0.075 (5)	0.16 (10)	0.35 (21)	0.5 (30)		0.7 (43)		1.0 (61)	1.4 (85)		2.0 (122)		2.8 (171)		3.5 (214)
Maximum pressure bar (PSI)	250 (3626)	250 (3626)	210 (3045)	160 (2320)	250 (3626)	180 (2610	250 (3626)	200 (2900)	140 (2030)	250 (3626)	100 (1450)	250 (3626)	70 (1015)	250 (3626)	250 (3626)
Weight kg (lbs.)	0.65 (1.4)	1.0 (2.2)	1.3 (2.9)	1.6 (3.5)	2.0 (4.4)	2.6 (5.7)	3.2 (7.1)	3.5 (7.7)	4.9 (10.8)	6.2 (13.7)	4.0 (8.8)	9.5 (20.9)	5.5 (12.1)	10.0 (22.0)	14.0 (30.9)
Mounting type	With clamps or threaded connection														
Installation position	Optional, preferably fluid connection piece pointing downward														
Hydraulic temp. range* °C (°F)	–10 to +80 (+14 to +176) – NBR diaphragm –35 to +80 (–31 to +176) – ECO diaphragm														
Charge gas	Use only nitrogen with typical purity 99.99%														

* Specific to elastomer type

Accumulator Charge Kit

0538103013	ACCUM CHARGE KIT FOR HAD UNITS WITH GAS VALVE TYPE 2

See index Page 212 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Tank mounted return line filters and replacement filter elements
10 TEN 0040 to 0100

The tank mounted return line filters are designed for installation on fluid tanks. They serve the separation of solid materials from the whole fluid flowing back to the tanks.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings: 3…100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function

Detailed information:
- RE51424

Technical Data

General					
Installation position			Vertical		
Ambient temperature range		°C [°F]	–30 to +100 (–22 to +212)		
Weight		Size	**0040**	**0063**	**0100**
		kg (lbs)	1.4 (3.1)	1.6 (3.5)	1.8 (4.0)
Material	Filter cover		Carbon fiber reinforced plastic		
	Filter head		Aluminum		
	Filter bowl		Carbon fiber reinforced plastic		
	Optical maintenance indicator (V2,2)		Aluminum		
	Electronic switching element		Plastic PA6		
	Pressure gauge		Plastic		
Hydraulic					
Maximum operating pressure		bar (PSI)	10 (145)		
Cracking pressure of the bypass valve		bar (PSI)	3.5 ± 0.35 (50.7 ± 5)		
Response pressure of the maintenance indicator		bar (PSI)	2.2 ± 0.25 [31.9 ± 3.6]		
Type of pressure measurement of the maintenance indicator			Backpressure		
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212)		
Fatigue strength according to ISO 10771		Load cycles	$> 10^5$ with max. operating pressure		

See index Page 212 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Tank mounted return line filters and replacement filter elements
10 FREN 0160 to 1000

The tank mounted return line filters are designed for installation on fluid tanks. They serve the separation of solid materials from the whole fluid flowing back to the tanks.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings: 3…100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function

Detailed information:
- RA51425

Technical Data

General							
Installation position			Vertical				
Ambient temperature range		°C (°F)	–30 to +70 (–22 to +158)				
Weight		Size	**0160**	**0250**	**0400**	**0630**	**1000**
		kg (lbs)	4.5 (9.9)	6.5 (14.3)	5.6 (12.3)	7.9 (17.4)	15 (33.1)
Material	Filter cover		Aluminum				
	Filter head		Aluminum				
	Filter bowl		Aluminum Steel				
	Optical maintenance indicator		Aluminum				
	Electronic switching element		Plastic PA 6				
Hydraulic							
Maximum operating pressure		bar (PSI)	10 (145)				
Cracking pressure of the bypass valve		bar (PSI)	3.5 ± 0.35 (50.7 ± 5)				
Response pressure of the maintenance indicator		bar (PSI)	2.2 ± 0.25 (31.9 ± 3.6)				
Hydraulic fluid temperature range		°C (°F)	–10 to 100 (14 to 212)				

See index Pages 212–213 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Inline filter with filter element

50 LE 0130, 0150

product design award 2011

Inline filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for attachment in pipelines.

The 50LE(N) inline filters are suitable for direct installation into pressure lines. They are mostly installed upstream open-loop or closed-loop control units to be protected.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Adsorption of very fine particles across a broad pressure differential range
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- By default equipped with mechanical optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design.

Detailed information:
- RE51447

Technical Data

General				
Installation position			Vertical	
Ambient temperature range		°C [°F]	–30 to +100 (–22 to +212)	
Weight		Size	**0130**	**0150**
		kg (lbs)	1.91 (4.2)	2.06 (4.5)
Volume		l (US gal)	0.89 (0.23)	1.10 (0.29)
Material	Filter head		Aluminum	
	Filter bowl		Aluminum	
	Optical maintenance indicator	V1.5; V2.2	Aluminum	
		V5.0	Brass	
	Electronic switching element		Plastic PA6	
Hydraulic				
Maximum operating pressure		bar (PSI)	50 (725)	
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212)	
Minimum conductivity of the medium		pS/m	300	
Fatigue strength according to ISO 10771		Load cycles	> 10^6 with max. operating pressure	
Assignment: Response pressure of the maintenance indicator / cracking pressure of the bypass valve		Load cycles	Response pressure of the maintenance indicator	Cracking pressure of the bypass valve
		bar (PSI)	1.5 ± 0.2 (21.8 ± 2.9)	2.5 ± 0.25 (36.3 ± 3.6)
		bar (PSI)	2.2 ± 0.3 (31.9 ± 4.4)	3.5 ± 0.35 (50.8 ± 5.1)
		bar (PSI)	5.0 ± 0.5 (72.5 ± 7.3)	7.0 ± 0.5 (101.5 ± 7.3)

See index Page 213 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Inline filter with filter element

110 LEN 0040 to 0400; 110 LE 0150

product design award 2011

Inline filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for attachment in pipelines.

The 110LE(N) inline filters are suitable for direct installation into pressure lines. They are mostly installed upstream openloop or closed-loop control units to be protected.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Filtration of very fine particles across a broad pressure differential range
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- By default equipped with mechanical optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:
- RA51448

Technical Data

General									
Installation position			Vertical						
Ambient temperature range		°C (°F)	–30 to +100 (–22 to +212)						
Weight		**Size**	**0040**	**0063**	**0100**	**0150**	**0160**	**0250**	**0400**
		kg (lbs)	1.1 (2.4)	1.2 (2.9)	1.5 (3.3)	2.6 (5.7)	3.5 (7.7)	4.0 (8.8)	4.9 (10.8)
Volume		l (US gal)	0.3 (0.08)	0.4 (0.11)	0.6 (0.16)	1.1 (0.29)	1.3 (0.34)	1.9 (0.50)	2.9 (0.77)
Material	Filter head		Aluminum						
	Filter bowl		Aluminum						
	Optical maintenance indicator	V1.5; V2.2	Aluminum						
		V5.0	Brass						
	Electronic switching element		Plastic PA6						
Hydraulic									
Maximum operating pressure		bar (PSI)	110 (1595)						
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212)						
Minimum conductivity of the medium		pS/m	300						
Fatigue strength according to ISO 10771		Load cycles	> 10^6 with max. operating pressure						
Assignment: Response pressure of the maintenance indicator / cracking pressure of the bypass valve		Load cycles	Response pressure of the maintenance indicator			Cracking pressure of the bypass valve			
		bar (PSI)	1.5 ± 0.2 (21.8 ± 2.9)			2.5 ± 0.25 (36.3 ± 3.6)			
		bar (PSI)	2.2 ± 0.3 (31.9 ± 4.4)			3.5 ± 0.35 (50.8 ± 5.1)			
		bar (PSI)	5.0 ± 0.5 (72.5 ± 7.3)			7.0 ± 0.5 (101.5 ± 7.3)			

See index Page 213 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Line mounted filters and replacement filter elements

245 LE(N) 0040 to 400

Line filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for installation into pipelines.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:
- RE51421

Technical Data

General						
Installation position			vertical			
Ambient temperature range		°C (°F)	–30 to +100 (–22 to +212)			
Weight		Size	**0040**	**0063**	**0100**	**0130**
		kg (lbs)	3.2 (7.1)	3.8 (8.4)	4.2 (9.3)	6.95 (15.3)
Weight		Size	**0150**	**0160**	**0250**	**0400**
		kg (lbs)	7.25 (16.0)	11.5 (25.4)	12.2 (26.9)	13.8 (30.4)
Material	Filter head		GGG			
	Filter bowl		Steel			
	Optical maintenance indicator		Brass			
	Electronic switching element		Plastic PA6			
Hydraulic						
Maximum operating pressure		bar (PSI)	250 (3628)			
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212)			
Fatigue strength according to ISO 10771		Load cycles	> 10^6 with max. operating pressure			
Cracking pressure of the bypass valve		bar (PSI)	7 ± 0.5 (100 ± 7)			
Type of pressure measurement of the maintenance indicator			Pressure differential			
Response pressure of the maintenance indicator		bar (PSI)	5 ± 0.5 (72 ± 7)			

See index Page 213 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Line mounted filters and replacement filter elements
350 LE(N) 0040 to 1000

Line filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for installation into pipelines.

The 350LE(N) line filters are suitable for direct installation into pressure lines. They are mostly installed upstream open-loop or closed-loop control units to be protected.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High diret holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized version due to 3D computer-supported design

Detailed information:
- RE51422

Technical Data

General							
Installation position			Vertical				
Ambient temperature range		°C (°F)	–30 to +100 (–22 to +212)				
Weight		Size	**0040**	**0063**	**0100**	**0130**	**0150**
		kg (lbs)	4.4 (9.7)	5.0 (11.0)	5.9 (13.0)	10.5 (23.1)	11.2 (24.7)
Weight		Size	**0160**	**0250**	**0400**	**0630**	**1000**
		kg (lbs)	17.2 (30.0)	19.5 (43.1)	23.0 (50.8)	45.0 (99.5)	93.0 (205.6)
Material	Filter head		GGG				
	Filter bowl		Steel				
	Optical maintenance indicator		Brass				
	Electronic switching element		Plastic PA6				
Hydraulic							
Maximum operating pressure		bar (PSI)	350 (5100)				
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212) [shortly –30 (–22)]				
Fatigue strength according to ISO 10771		Load cycles	> 10^6 with max. operating pressure				
Cracking pressure of the bypass valve		bar (PSI)	7 ± 0.5 (100 ± 7)				
Type of pressure measurement of the maintenance indicator			Pressure differential				
Response pressure of the maintenance indicator		bar (PSI)	5 ± 0.5 (72 ± 7)				

See index Pages 213–214 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Manifold mount pressure filter and replacement filter elements
245 PSF(N) 0040 to 0400

Manifold mounted filters are designed to be mounted directly on the pump outlet or control manifolds. They are installed upstream to protect open-loop and closed-loop control systems.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:
- RE51418

Technical Data

General						
Installation position			Lateral			
Ambient temperature range		°C (°F)	–30 to +100 (–22 to +212)			
Weight		Size	**0040**	**0063**	**0100**	**0130**
		kg (lbs)	4.6 (10.1)	5.0 (11.0)	5.8 (12.8)	8.8 (19.4)
Weight		Size	**0150**	**0160**	**0250**	**0400**
		kg (lbs)	9.2 (20.3)	13.5 (29.8)	14.3 (31.5)	16.0 (35.3)
Material	Filter head		GGG			
	Filter bowl		Steel			
	Optical maintenance indicator		Brass			
	Electronic switching element		Plastic PA6			
Hydraulic						
Maximum operating pressure		bar (PSI)	250 (3626)			
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212)			
Fatigue strength according to ISO 10771		Load cycles	> 10^6 with max. operating pressure			
Cracking pressure of the bypass valve		bar (PSI)	7 ± 0.5 (100 ± 7)			
Type of pressure measurement of the maintenance indicator			Pressure differential			
Response pressure of the maintenance indicator		bar (PSI)	5 ± 0.5 (72 ± 7)			

See index Page 214 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Manifold mount pressure filter and replacement filter elements
350 PSF(N) 0040 to 1000

Manifold mounted filters are designed to be mounted directly on the pump outlet or control manifolds. They are installed upstream to protect open-loop and closed-loop control systems.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:
- RE51419

Technical Data

General							
Installation position			Lateral				
Ambient temperature range		°C (°F)	–30 to +100 (–22 to +212)				
Weight		Size	**0040**	**0063**	**0100**	**0130**	**0150**
		kg (lbs)	5.5 (12.1)	6.2 (13.6)	7.0 (15.4)	13.0 (28.6)	13.9 (30.6)
Weight		Size	**0160**	**0250**	**0400**	**0630**	**1000**
		kg (lbs)	18.5 (40.7)	20.5 (45.1)	24.5 (53.9)	41.2 (90.6)	87.0 (191.4)
Material	Filter head		GGG				
	Filter bowl		Steel				
	Optical maintenance indicator		Brass				
	Electronic switching element		Plastic PA6				
Hydraulic							
Maximum operating pressure		bar (PSI)	350 (5100)				
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212) [shortly –30 (–22)]				
Fatigue strength according to ISO 10771		Load cycles	> 10^6 with max. operating pressure				
Cracking pressure of the bypass valve		bar (PSI)	7 ± 0.5 (100 ± 7)				
Type of pressure measurement of the maintenance indicator			Pressure differential				
Response pressure of the maintenance indicator		bar (PSI)	5 ± 0.5 (72 ± 7)				

See index Pages 214–215 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Manifold mount pressure filter and replacement filter elements

450 PBFN 0040 to 1000

Manifold mounted filters are designed to be mounted directly on the pump outlet or control manifolds. They are installed upstream to protect open-loop and closed-loop control systems.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:
- RE51417

Technical Data

General							
Installation position			Vertical				
Ambient temperature range		°C (°F)	–30 to +100 (–22 to +212)				
Weight		Size	**0040**	**0063**	**0100**	**0130**	**0150**
		kg (lbs)	5 (11.0)	5.5 (12.1)	6.4 (14.1)	11.9 (26.2)	12.9 (28.4)
Weight		Size	**0160**	**0250**	**0400**	**0630**	**1000**
		kg (lbs)	15.9 (35.1)	16.5 (36.3)	19.9 (43.8)	37.5 (82.5)	48 (105.8)
Material	Filter head		GGG				
	Filter bowl		Steel				
	Optical maintenance indicator		Brass				
	Electronic switching element		Plastic PA6				
Hydraulic							
Maximum operating pressure		bar (PSI)	450 (6530)				
Hydraulic fluid temperature range		°C (°F)	–10 to +100 (+14 to +212)				
Fatigue strength according to ISO 10771		Load cycles	> 10^6 with max. operating pressure				
Cracking pressure of the bypass valve		bar (PSI)	7 ± 0.5 (100 ± 7)				
Type of pressure measurement of the maintenance indicator			Pressure differential				
Response pressure of the maintenance indicator		bar (PSI)	5 ± 0.5 (72 ± 7)				

See index Page 215 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Desiccant Air Breathers
BFSK

The BFSK is used for filtration and dehumidification of the intake air of industrial systems. This desiccant air breather extends the life of your application by preventing damage to pumps and bearings, and system components.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Description

Water collection in reservoir

Most liquid reservoirs must allow for the exchange of air and must be able to breath. Depending on the machine cycles, air is drawn into the reservoir and exhausted again. This air contains small miniature particles and also water vapor. Due to different temperatures in the tank, the water vapor condenses. The resulting water promotes the oxidation process of the oil and is also responsible for possibly occurring damage of the components. Due to the catalytic influence of solid metallic parts, this process is further accelerated.

Filtration and drying in one single process

Through the BRFS silica gel air filter, fluid reservoirs are able to breath clean and dry air. The drawn in air is firstly dried by means of Z-R granulate. Afterwards, the air flows through the pleated filter element where the solid dirt particles are collected. In this way, only dried and filtered air enters the reservoirs. The exhaust air from the system can enter the atmosphere in the opposite direction.

Monitoring

The Z-R granulate's absorption capacity regarding humidity becomes visible by a change in color from dark red to orange. An optional clogging indicator shows how much filter capacity has already been used and how much is still available.

Detailed information:

- RE51412

Technical Data

Type	BFSK 45/21	BFSK 60/21	BFSK 90	BFSK 130
***q*max**	42 m^3/h	42 m^3/h	90 m^3/h	90m^3/h
Air filter	10 µm	10 µm	10 µm	10 µm
Weight	1.2 kg	1.5 kg	2.7 kg	4 kg
Silica gel	300 cm^3	600 cm^3	1,000 cm^3	2,000 cm^3
Water absorption	86 ml	172 ml	277 ml	576 ml

See index Page 215 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Breather filters:
BFS 7, BFS 20; BF 7 SL; FEF 0, FEF 1; TLF I, TLF III

Filtration and dehumidification of the intake air of industrial systems.

Avoidance of initial damage in pumps and bearings, and system components.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Design

Model BF 7 SL

Breather filter with threaded filter cartridge and 10 micron pleated filter element.

Flange connection (BF 7 SL...).

Detailed information:
- RE51413
- RE51514
- RE51415

BFS 7, BFS 20

Compact design male thread breather with 10 micron pleated paper filter element.

Materials as per spare parts list.

Models FEF 0, FEF 1

Combination filler breather with mounting flange and filling filter (screen basket 500 µm) and removable cap with bayonet lock. The internal breather filter element is 40 µm. The filter element is replaced by exchanging the whole metal cap. The breather cap is secured to the reservoir with a chain.

Materials as per spare parts list.

Models TLF I, TLF III

Removable filter breather housing with internal replaceable filter element. Filter element H10XL, H3XL up to a filtration rating of 10 µm and 3 µm with glass fiber material.

Materials as per spare parts list

Designs:

TLF I…: with female thread,
TLF III…: with male screw-in thread and filling filter (screen basket 130 µm).

See index Pages 215–216 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Popular Cross-Over Filter Elements

Rexroth cross-over filter elements are designed to replace your existing products, even those manufactured by other companies. Rexroth filter elements present the highest quality option for separation of solid materials from the whole fluid flowing back into the tanks. All cross-over elements listed in this section have a maximum order quantity of five and will ship in one day.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Description

- Designed for optimum flow characteristics to achieve reduced pressure drop
- Finest materials and manufacturing processes used yield highest available beta efficiencies
- Compatible with different oil types, including rapidly biodegradable hydraulic oils
- Element lifetime increased due to materials and design - get more from your investment

Technical Data

Part Number	Description
R928017121	9.60LA H3XL-F00-0-M SO3000
R928045173	1.1401 G40-A00-0-M
R928017483	10.110LA H10XL-A00-6-M SO3000
R928017667	10.1300LA H10XL-A00-6-M SO3000
R928017668	10.1300LA H6XL-A00-6-M SO3000
R928017506	10.160LA H10XL-A00-6-M SO3000
R928017529	10.240LA H10XL-A00-6-M SO3000
R928017552	10.330LA H10XL-A00-6-M SO3000
R928017575	10.500LA H10XL-A00-6-M SO3000
R928017598	10.660LA H10XL-A00-6-M SO3000
R928019959	16.7500/R P10-S00-0-M
R928016804	16.8700/R H10XL-S00-0-M
R928045584	2.0005 G40-A00-0-V
R928006376	2.0020 H6XL-A00-0-M
R928006699	2.0063 H3XL-A00-0-M
R928006862	2.0250 H6XL-A00-0-M
R928019029	2.56 P10-A00-0-M
R928046179	20.750 P25-S00-6-M
R928022781	4.06 P10-A00-0-M
R928028012	4.10 G200-A00-0-M
R902603750	62.0056K H10XL-J00-0-V

Part Number	Description
R928037484	80.130 H1XL-S00-0-M
R928019201	80.130 H6XL-S00-0-M
R928028010	80.30/20 P10-S00-0-V
R928028019	80.45/21 VS60-S00-0-M
R928016614	80.90 H10XL-S00-0-M
R928016612	80.90 P10-S00-0-M
R928022425	9.110LA H10XL-A00-0-V SO3000
R928017317	9.330LA H10XL-F00-0-M SO3000
R928017319	9.330LA H3XL-F00-0-M SO3000
R928017318	9.330LA H6XL-F00-0-M SO3000
R928017374	9.500LA H20XL-A00-0-M SO3000
R928048442	9.60 G25-A00-0-V-0024
R928017408	9.660LA H10XL-A00-0-M SO3000
R928017416	9.660LA H10XL-F00-0-M SO3000
R928017407	9.660LA H20XL-A00-0-M SO3000
R928017417	9.660LA H6XL-F00-0-M SO3000
R928022726	99.183677 MB15-C00-0-M
R928005636	1.0045 G25-A00-0-M
R928005639	1.0045 H10XL-A00-0-M
R928005640	1.0045 H20XL-A00-0-M
R928005672	1.0060 G25-A00-0-M

continued on next page

See index Pages 216–217 for GoTo product and accessory part numbers.

Technical Data (continued)

Part Number	Description
R928037731	10.2600LA H10XL-A00-0-M SO3000
R928035218	10.330LA H10XL-A00-B6-M SO3000
R928016662	16.7400/R H20XL-S00-0-M
R928016677	16.7500/S H10XL-S00-0-M
R928016673	16.7500/S H3XL-S00-0-M
R928016729	16.8304/X H6XL-S00-0-V
R928016950	16.9600/T H6XL-E00-0-M
R928006374	2.0020 G25-A00-0-M
R928006755	2.0100 H10XL-A00-0-M
R928006764	2.0100 H10XL-B00-0-M
R928006861	2.0250 H3XL-A00-0-M
R928006871	2.0250 H6XL-B00-0-M
R928025500	2.90 H10XL-C00-0-M
R902603298	62.0056K H20XL-J00-0-V
R902603243	62.0125K H20XL-J00-0-V
R902603004	62.0180K H20XL-J00-0-V
R928028556	84.60 H10XL-S00-4-M

Part Number	Description
R928017144	9.110LA H10XL-A00-0-M SO3000
R928017154	9.110LA H3XL-F00-0-M SO3000
R928017145	9.110LA H6XL-A00-0-M SO3000
R928017210	9.160LA H10XL-A00-0-M SO3000
R928017220	9.160LA H3XL-F00-0-M SO3000
R928017243	9.240LA H10XL-A00-0-M SO3000
R928017251	9.240LA H10XL-F00-0-M SO3000
R928017253	9.240LA H3XL-F00-0-M SO3000
R928017276	9.280LA H10XL-A00-0-M SO3000
R928017275	9.280LA H20XL-A00-0-M SO3000
R928017277	9.280LA H6XL-A00-0-M SO3000
R928017085	9.30LA H20XL-F00-0-M SO3000
R928017088	9.30LA H3XL-F00-0-M SO3000
R928017309	9.330LA H10XL-A00-0-M SO3000
R928017111	9.60LA H10XL-A00-0-M SO3000
R928017119	9.60LA H10XL-F00-0-M SO3000

See index Pages 216–217 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Hydro-electric pressure switch
HED 8

Hydro-electric pressure switches of model HED 8 are piston-type pressure switches used to monitor a pressure value in a circuit. As a pressure value is achieved (rising or falling), the HED micro-switch changes state, which can be used as an indicator for the next sequential operation or shutdown. The HED microswitch is not a current carrying device; it is an actuator/sensor.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Features

- For subplate mounting
- For in-pipe installation
- As vertical stacking element, position of ports to DIN 24340 form A
- In horizontal stacking assemblies
- Five pressure stages, optional
- Adjustment option:
  – Rotary knob with scale
- Cable socket with circuitry (indicator lamp) – separate order

Detailed information:
- RE50061

Technical Data

Operating pressure	p_{max}	bar (PSI)	630 (9100)
Switching frequency		cycles/hour	7200

See index Pages 217–218 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Rotary angle sensor
VT-SWA-1

Rotary angle sensor for SYDFE. systems with integrated electronics (complete kit with sensor and evaluation electronics, magnet carrier and parts to be installed)

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Features

- Suitable for use in SYDFEE and SYDFEC systems (systems with integrated electronics) for sensing the swivel angle of the A10V(S)O…DFE… pump and conversion of the measured value into an electrical signal
- Contact-free acquisition of a rotary angle using a Hall-effect sensor
- Consisting of magnet carrier and sensor with integral electronics in the housing

Detailed information:
- RE30268

Technical Data

Operating voltage	U_o	V	–10.0 (reference voltage)
Current consumption	I	mA	~25
Measuring range	α	°C	±18
Output signal	U	V	–2 to –8

See index Page 218 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Subplates, Bolt kits, and Electrical connectors – applicable to GoTo directional valves

GoTo www.boschrexroth-us.com/GoToaccess

Electrical connectors

Material No.	Description	Notes	Explanation
R901017011	3P Z4 M SW	Metric, PG thd	right angle connector, color black*
R901017022	3P Z5L M12 240V	Metric, PG thd	right angle connector w/ light, color black*
R901017026	3P Z5L1 M24V SPEZ	M16 X 1.5	right angle connector w/ light and zener diode protection, color black*
R901017025	3P RZ5 M24 240V	Metric, PG thd	right angle connector w/ rectifier, color black*
R900011039	3P Z45 B GDM201	NPT, 1/2” thd	right angle connector, color black*
R900057453	3P Z55L 12-240V	NPT, 1/2" thd	right angle connector w/ light, color black*
R900842566	3P RZ55 24	NPT, 1/2" thd	right angle connector w/ rectifier, color black*
R900057455	3P RZ55L 24-2 SPEZ&	NPT, 1/2” thd	right angle connector w/ rectifier and light, color black*
R900064381	4P Z24 M12X1	M12 X 1	straight plug cable (3m) for HM20, QM proximity switch*
R900021267	7P Z31 BF6-3PG11DSPEZ	Metric, PG thd	7-pin plastic, solder
R900223890	7P Z31 BF63PG11M SPEZ	PG11	Straight metal connector, solder contacts

R978713598	MS CONNECTOR FOR OBE VALVES

* See RE08006

Bolt kits

Material No.	Description	Notes	Explanation
R978833365	BK-(4) 10X24X2	WE6, WRAB(E)6, WRA(E)6, WRE(E)6	Bolt Kit; 4pcs of 10-24 x 2” long bolts
R978833366	BK-(4) 1/4X20X1-1/2	WE10, WRA(E)10, WRE(E)10	Bolt Kit; 4pcs of 1/4-20 x 1-1/2” long bolts
R978833367	BK-(4) 1/4X20X1-3/4	WEH10, WRZ(H)10, WRL(E)10	Bolt Kit; 4pcs of 1/4-20 x 1-3/4” long bolts
R978833395	BK-(4) 3/8X16X2-1/4-(2)1/4X20X2-1/4 SHCS	WEH16, WRZ(H)16, WRL(E)16	Bolt Kit; 4pcs of 3/8-16 x 2-1/4” + 2pcs of 1/4-20x 2-1/4” long bolts
R978833387	BK-(6) 1/2X13X2-1/2	WEH22, 25, WRZ(H)25, WRL(E)25	Bolt Kit; 6pcs of 1/2-13 x 2-1/2” long bolts

Subplates

Material No.	Description	Notes	Port sizes	Reference
R900341065	G 341/12	subplates to ISO 4401-3 – Size 6	NFPA D03 pattern; SAE-6 ports	RA45052
R900455128	G 342/12	subplates to ISO 4401-3 – Size 6	NFPA D03 pattern; SAE-8 ports	RA45052
R900503115	G 646/12	subplates to ISO 4401-5 – Size 10	NFPA D05 pattern; SAE-10 ports	RA45054

See index Page 218 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Coils & handnuts – applicable to ***GoTo*** directional valves

GoTo www.boschrexroth-us.com/GoToaccess

Coils & handnuts

Material No.	SAP/Portal Description	Notes	Explanation
R978839349	Coil Assembly WZ45-4-L110V50HZ+ 120V60HZ	110/120 vac	For use with DIN connection WE6-6X/EW…..K4* valves
R900545268	Valve Solenoid WZ45-4-MVN110V50/60+&	110/120 vac	For use with WE6/EW110K4
R900020175	Solenoid Coil WZ45-4-L110V-50/60HZ&	110/120 vac	For use with WE6/EW110K4
R900021464	Solenoid Coil WZ45-3 110V &	110/120 vac	For use with central box WE6-6X/EW…..D* valves
R900020169	Nut WZ45-.-.M.N. SPEZ	all AC “WZ45”	Handnut for use with standard “N9” option AC valves, WE6-6X/EW
R901333224	Solenoid Coil 45-K4K-30G12 01	12 vdc	For use with DIN connection WE6-6X/EG…..K4* valves
R900021462	Solenoid Coil GZ45-3 12V	12 vdc	For use with central box WE6-6X/EG…..D* valves
R900021389	Solenoid Coil GZ45-4 24V	24 vdc	For use with DIN connection WE6-6X/EG…..K4* valves
R900021463	Solenoid Coil GZ45-3 24V	24 vdc	For use with central box WE6-6X/EG…..D* valves
R900029571	Nut GZ45-01M.N. SPEZ	all DC “GZ45”	Handnut for use with standard “N9” option DC valves, WE6-6X/EG
R900219602	Solenoid Coil WZ65-3 110V-50/ &	110/120 vac	For use with central box WE10-4X/CW…..D* valves
R900019816	Solenoid Coil WZ65-4-L110V-50/60HZ&	110/120 vac	For use with DIN connection WE10-3X/CW…..K4* valves
R900019801	Solenoid Coil WZ65-0-L110V-50/60HZ&	110/120 vac	For use with WE10-3X/CW110 D box
R900019840	Nut WZ65-.-LM.VN. SPEZ	all AC “WZ65”	Handnut for use with standard “N9” option AC valves, WE10-*X/CW
R900207929	Solenoid Coil GZ63-3 12V	12 vdc	For use with central box WE10-4X/CG…..D* valves
R900019792	Solenoid Coil GZ63-4 12V K4K	12 vdc	For use with DIN connection WE10-3X/CG…..K4* valves
R900217812	Solenoid Coil GZ63-3 24V	24 vdc	For use with central box WE10-4X/CG…..D* valves
R900019793	Solenoid Coil GZ63-4 24V	24 vdc	For use with DIN connection WE10-3X/CG…..K4* valves
R900019841	Nut GZ63 M.VN.3K	all DC “GZ63”	Handnut for use with standard “N9” option DC valves, WE10-*X/CW
R901333224	Solenoid Coil 45-K4K-30G12 01	12 vdc	For use with DIN connection SED6+10 & SEW6+10….. K4* valves
R900021389	Solenoid Coil GZ45-4 24V	24 vdc	For use with DIN connection SED6+10 & SEW6+10….. K4* valves
R900021392	Solenoid Coil GZ45-4 96V	96 vdc	For use with DIN connection SED6+10 & SEW6+10….. K4* valves
R900029574	Nut GZ45C-01 SPEZ	all DC “GZ45”	Handnut for use with standard “N9” option DC valves, SEW6+10/SED6+10

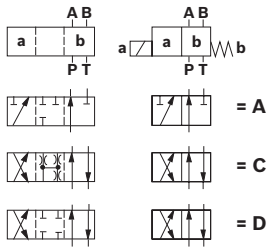
See index Pages 218–219 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

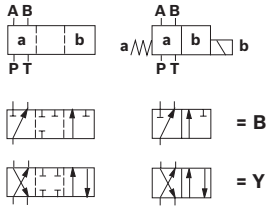
Symbols for directional control valves

2 Position – 3 and 4 Way Valves

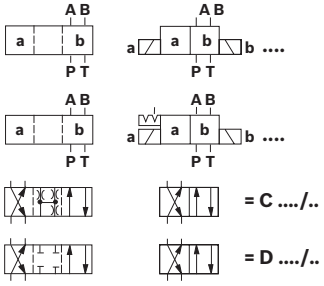
Operator “A” **Spring Return**



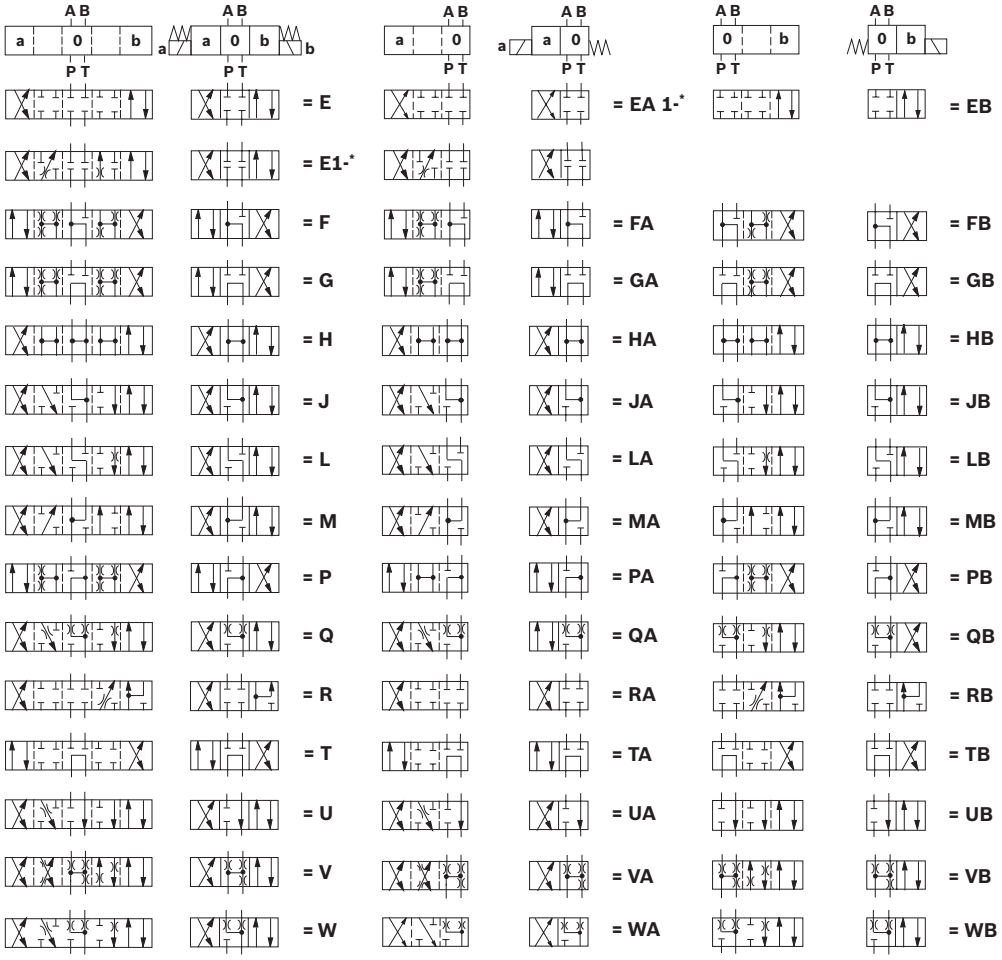
Operator “B” **Spring Return**



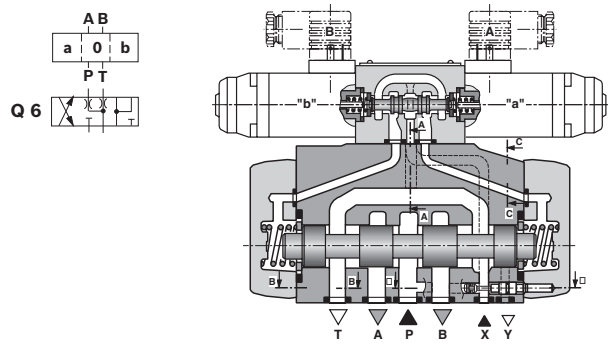
Double Operators



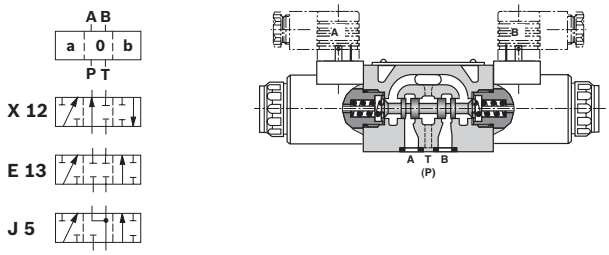
Position – 4 Way Valves and 2 Position – 4 Way Valves



WEH 22

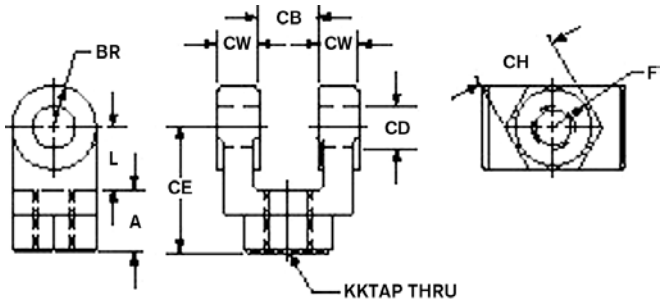


WE 6



GoTo Focused Delivery Program: Accessories

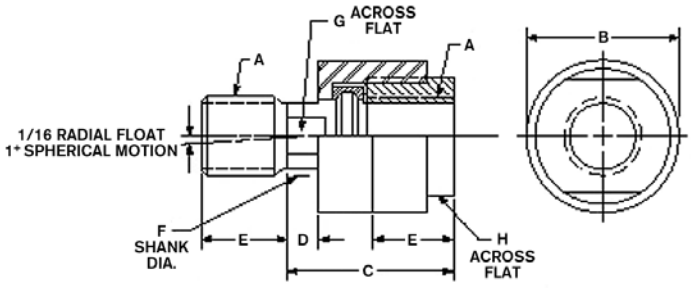
Rod clevises for cylinders (top)
Alignment couplers for cylinders (bottom)



For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Rod clevises for CDT										
Part No.	**CB**	**CD**	**CE**	**CH**	**CW**	**F**	**L**	**A**	**KK**	**ER**
R978935057	0.765	1/2	1-1/2	1	1/2	1	3/4	3/4	7/16 – 20	1/2
R978935058	1.265	3/4	2-3/8	1-1/4	5/8	1-1/4	1-1/4	1-1/8	3/4 – 16	3/4
R978935059	1.265	3/4	2-1/8	1-3/8	5/8	1-1/4	1	1-1/8	3/4 – 16	3/4
R978935060	1.515	1	3-1/8	1-1/2	3/4	1-1/2	1-1/2	1-5/6	1 – 14	1
R978935061	2.032	1-3/8	4-1/8	2	1	2	2-1/8	2	1-1/4 – 12	1-3/8
R978935062	2.531	1-3/4	4-1/2	2-3/8	1-1/4	2-3/8	2-1/4	2-1/4	1-1/2 – 12	1-3/4

Note: Pins must be ordered separately, see Page 151 for dimensions and part numbers.



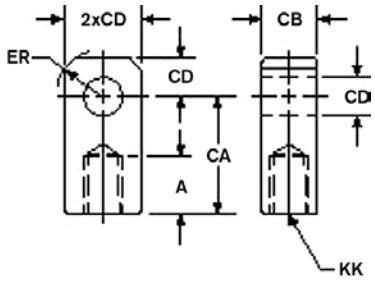
For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Alignment couplers for CDT									
Part No.	**A**	**B**	**C**	**D**	**E**	**F**	**0**	**H**	**Max. Pull at Yield**
R978935082	7/16-20	1-1/4	2	1/2	3/4	5/8	9/16	1-1/8	10,000
R978935080	1/2 - 20	1-1/4	2	1/2	3/4	5/8	9/16	1-1/8	14,000
R978935083	3/4- 16	1-3/4	2-5/16	5/16	1-1/8	3-1/32	7/8	1-1/2	34,000
R978935085	1 - 14	2-1/2	2-15/16	1/2	1-5/8	1-3/8	1-1/4	2-1/4	64,000
R978935086	1-1/4- 12	2-1/2	2-15/16	1/2	1-5/8	1-3/8	1-1/4	2-1/4	64,000
R978935087	1-1/2- 12	3-1/4	4-3/8	13/16	2-1/4	1-3/4	1-1/2	3	120,000

See index Page 219 for GoTo product and accessory part numbers.

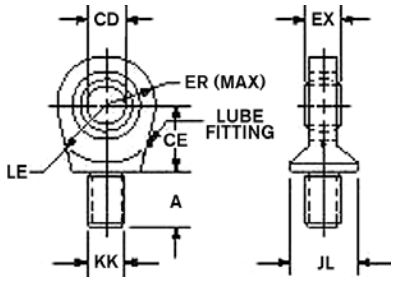
GoTo Focused Delivery Program: Accessories

Rod eyes for cylinders (bottom)
Spherical rod eyes for cylinders (top)



For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Rod eyes for CDT						
Part No.	**A**	**CA**	**CB**	**CD**	**ER**	**KK**
R978935066	3/4	1-1/2	3/4	1/2	5/8	7/16 – 20
R978935067	1-1/8	2-1/16	1-1/4	3/4	7/8	3/4 – 16
R978935068	1-5/8	2-13/16	1-1/2	1	1-3/16	1 – 14
R978935070	2	3-7/16	2	1-3/8	1-9/16	1-1/4 – 12
R978935071	2-1/4	4	2-1/2	1-3/4	2	1-1/2 – 12



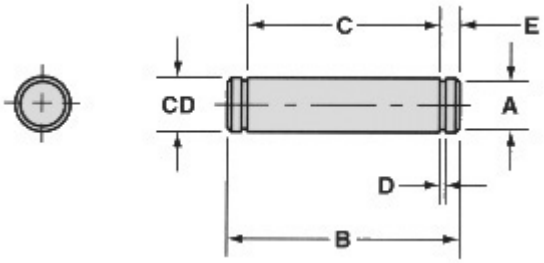
For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Spherical rod eyes for CDT								
Part No.	**CD −0.0005**	**A**	**CE**	**EX**	**ER**	**LE**	**KK**	**JL**
R978935075	0.500	1-1/16	7/8	7/16	7/8	3/4	7/16 – 20	7/8
R978935076	0.750	1	1-1/4	21/32	1-1/4	1-1/16	3/4 – 16	1-5/16
R978935077	1.000	1-1/2	1-7/8	7/8	1-3/8	1-7/16	1 – 14	1-1/2
R978935078	1.375	2	2-1/8	1-3/16	1-13/16	1-7/8	1-1/4 – 12	2
R978935079	1.750	2-1/8	2-1/2	1-17/32	2-3/16	2-1/8	1-1/2 – 12	2-1/4

See index Page 219 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Pivot pins for cylinders & C-rings for pivot pins



For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Pivot Pins							C-Rings	
Part No.	**CD**	**A**	**B**	**C**	**D**	**E**	**Part No.**	**CD**
R978935026	0.500	0.468	2.094	1.875	0.041	0.109	R978000049	0.500
R978935027	0.750	0.704	2.875	2.625	0.048	0.125		
R978935028	1.000	0.940	3.375	3.125	0.048	0.125	R978000190	1.000
R978935029	1.375	1.291	4.485	4.187	0.056	0.149	R978000191	1.375
R978935030	1.750	1.650	5.547	5.188	0.068	0.180		

Note: When ordering pivot pins, two C-rings must also be ordered for each pin. Pivot pins do not automatically ship with C-rings. Additional C-rings are available in any quantity.

See index Page 219 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Bodies & Mounting hardware – applicable to ***GoTo*** compact hydraulics

GoTo www.boschrexroth-us.com/GoToaccess

Bodies

Material No.	SAP / Portal Description	Notes	Explanation
R978032340	CB08-2N-A/S06	08-2 body, SAE-6, 3000 psi	For all Sz8, 2-ported cartridges
R978032344	CB08-2N-D/S06	08-2 body, SAE-6, 5000 psi	For all Sz8, 2-ported cartridges
R978032341	CB08-3N-A/S06	08-3 body, SAE-6, 3000 psi	For all Sz8, 3-ported cartridges, except short form (port 3 pilot)
R978032345	CB08-3N-D/S06	08-3 body, SAE-6, 5000 psi	For all Sz8, 3-ported cartridges, except short form (port 3 pilot)
R978032348	CB10-2N-A/S08	10-2 body, SAE-8, 3000 psi	For all Sz10, 2-ported cartridges
R978032352	CB10-2N-D/S08	T-11A body, SAE-8, 5000 psi	For all T11A counterbalance & PO check carts
R978032349	CB10-3N-A/S08	10-3 body, SAE-8, 3000 psi	For all Sz10, 3-ported cartridges, except short form (port 3 pilot)
R978032353	CB10-3N-D/S08	10-3 body, SAE-8, 5000 psi	For all Sz10, 3-ported cartridges, except short form (port 3 pilot)
R978032351	CB10-4N-A/S08	10-4 body, SAE-8, 3000 psi	For all Sz10, 4-ported cartridges
R978032355	CB10-4N-D/S08	10-2 body, SAE-8, 5000 psi	For all Sz10, 2-ported cartridges
R978032360	CB16-2N-A/S12	16-2 body, SAE-12, 3000 psi	For all Sz16, 2-ported cartridges
R978032362	CB16-2N-D/S12	10-4 body, SAE-8, 5000 psi	For all Sz10, 4-ported cartridges
R978041747	CBDT-11A-A/S08	T-11A dual body, SAE-8, 3000 psi	For all T11A counterbalance & PO check carts
R978041748	CBDT-11A-D/S08	T-11A dual body, SAE-8, 5000 psi	For all T11A counterbalance & PO check carts
R978041749	CBDT-2A-A/S10	T-2A dual body, SAE-10, 3000 psi	For all T2A counterbalance & PO check carts
R978041750	CBDT-2A-D/S10	T-2A dual body, SAE-10, 5000 psi	For all T2A counterbalance & PO check carts
R978012829	CBT-11A-A/S08	T-11A body, SAE-8, 3000 psi	For all T11A counterbalance & PO check carts
R978012838	CBT-11A-D/S08	16-2 body, SAE-12, 5000 psi	For all Sz16, 2-ported cartridges
R978041744	CBT-2A-A/S10	T-2A body, SAE-10, 3000 psi	For all T2A counterbalance & PO check carts
R978041745	CBT-2A-D/S10	T-2A body, SAE-10, 5000 psi	For all T2A counterbalance & PO check carts

Mounting Hardware

R987281101	BOLT KIT K-2221A MODULE	Single module bolt kit, M6	RA00159/10.11, RA18301-90/03.11, pg. 3
R933003730	KR-FF-M6-ED-06----------K-2215	Mounting bracket kit, M6	RA00159/10.11, RA18301-90/03.11, pg. 3
R933003722	KR-SC-M8-ED-06-02E----------K-2202	2 section tie rod kit, M8	RA00159/10.11, RA18301-90/03.11, pg. 2
R933003723	KR-SC-M8-ED-06-03E----------K-2203	3 section tie rod kit, M8	RA00159/10.11, RA18301-90/03.11, pg. 2
R933003724	KR-SC-M8-ED-06-04E----------K-2204	4 section tie rod kit, M8	RA00159/10.11, RA18301-90/03.11, pg. 2

See index Page 220 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Coils – applicable to ***GoTo*** compact hydraulics

GoTo www.boschrexroth-us.com/GoToaccess

Coils

Material No.	SAP / Portal Description	Notes	Explanation
R933002776	C31-01-OB-12DC-20W-H-D12.7------271-0450	12 VDC, DIN plug	Use on EDB-Y bankable directional valves
R933002777	C31-01-OC-24DC-20W-H-D12.7------271-0451	24 VDC, DIN plug	Use on EDB-Y bankable directional valves
R933002778	C31-07-OB-12DC-20W-H-D12.7------271-0452	12 VDC, Deutsch DT04-2P	Use on EDB-Y bankable directional valves
R933002779	C31-07-OC-24DC-20W-H-D12.7------271-0453	24 VDC, Deutsch DT04-2P	Use on EDB-Y bankable directional valves
R933000044	C36-01-OB-12DC-26W-H-D14--------271-0510	12 VDC, DIN plug	Use on ED1 / EDB-Z bankable directional valves
R933000053	C36-01-OC-24DC-26W-H-D14--------271-0511	24 VDC, DIN plug	Use on ED1 / EDB-Z bankable directional valves
R933000048	C36-07-OB-12DC-26W-H-D14-----271-0510207	12 VDC, Deutsch DT04-2P	Use on ED1 / EDB-Z bankable directional valves
R933000058	C36-07-OC-24DC-26W-H-D14-----271-0511207	24 VDC, Deutsch DT04-2P	Use on ED1 / EDB-Z bankable directional valves
R933000026	C45-01-OB-12DC-33W-H-D19--------271-0417	12 VDC, DIN plug	Use on ED2 bankable directional valves
R933000034	C45-01-OC-24DC-33W-H-D19--------271-0418	24 VDC, DIN plug	Use on ED2 bankable directional valves
R933000030	C45-07-OB-12DC-33W-H-D19------271-041717	12 VDC, Deutsch DT04-2P	Use on ED2 bankable directional valves
R933000032	C45-07-OC-24DC-33W-H-D19------271-041719	24 VDC, Deutsch DT04-2P	Use on ED2 bankable directional valves
R933000092	D15-01-OB-12DC-36W-H-D23-----271-8020210	12 VDC, DIN plug	Use on ED4-P and EDC bankable directional valves
R933000093	D15-01-OC-24DC-36W-H-D23-----271-8020220	24 VDC, DIN plug	Use on ED4-P and EDC bankable directional valves
R933000094	D15-07-OB-12DC-36W-H-D23-----271-8020230	12 VDC, Deutsch DT04-2P	Use on ED4-P and EDC bankable directional valves
R933002798	D15-07-OC-24DC-36W-H-D23-----271-8020240	24 VDC, Deutsch DT04-2P	Use on ED4-P and EDC bankable directional valves

Continued on next page

See index Page 220 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Coils – applicable to ***GoTo*** compact hydraulics (continued)

GoTo www.boschrexroth-us.com/GoToaccess

Coils

Material No.	SAP / Portal Description	Notes	Explanation
R901094597	S7L36DTL 24VDC 30W DIOD OD02072230OC02	24 VDC, Deutsch DT04-2P	Use on Sz10 spool cartridges
R901094595	S7L36DTL12VDC30WDIOD CL.H OD02072230OB02	12 VDC, Deutsch DT04-2P	Use on Sz10 spool cartridges
R934003806	S7L36HRL 110VRAC 30W CL.H OD02070130OW02	110 VRAC, DIN plug (Req. rectifying connector)	Use on Sz10 spool cartridges
R901090824	S7L36HRL 12VDC 30W CLAS H OD02070130OB02	12 VDC, DIN plug	Use on Sz10 spool cartridges
R901090825	S7L36HRL 24VDC 30W CLAS H OD02070130OC02	24 VDC, DIN plug	Use on Sz10 spool cartridges
R901090821	S8.356HRL.12DC 20W CL.H OD02170130OB00	12 VDC, DIN plug	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901083065	S8.356HRL.24DC 20W CL.H OD02170130OC00	24 VDC, DIN plug	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901087981	S8.356HRL110RAC 20W CL.H OD02170130OW00	110 VRAC, DIN plug (Req. rectifying connector)	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901120671	S8356DTV12DC20W DIOD CL.H OD0217223POB00	24 VDC, Deutsch DT04-2P	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901114602	S8356DTV24DC20W DIOD CL.H OD0217223POC00	12 VDC, Deutsch DT04-2P	Use on all sizes of poppet cartridges & Sz8 spool cartridges

See index Pages 220–221 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Aftermarket Parts

Seal kits

GoTo www.boschrexroth-us.com/GoToaccess

AZMF Seals

1510283065	ROTARY SHAFT LIP
1517010195	SEAL KIT

AZPF Seals

1517010152	SEAL KIT (BUNA)
1510283008	SHAFT SEAL (BUNA)

AZPN Seals

1510283023	ROTARY SHAFT LIP
1517010194	SEAL KIT

VPV Seal Kits

9511230597	SEAL KIT	VPV/25/32-210BAR	FKM SEALS
9511230605	SEAL KIT	VPV/16-210BAR	FKM SEALS
9511230658	SEAL KIT	VPV/45-80 210 BAR	FKM SEALS
9511230659	SEAL KIT	VPV/100-164 210 BAR	FKM SEALS

See index Page 221 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Aftermarket Parts

A10 service parts kits for AA10VSO series 30 and 31

GoTo www.boschrexroth-us.com/GoToaftermarket

Size 28

Part Number	Description
R910915845	SEAL KIT (BUNA-N)
R910932983	SEAL KIT (VITON)
R910942158	BEARING KIT
R910947781	ROTARY GROUP RH – RIGHT HAND ROTATION
R910947782	ROTARAY GROUP LH – LEFT HAND ROTATION

Size 45

Part Number	Description
R910915885	SEAL KIT (BUNA-N)
R910932984	SEAL KIT (VITON)
R910942248	BEARING KIT
R910947730	ROTARY GROUP RH – RIGHT HAND ROTATION
R910947789	ROTARAY GROUP LH – LEFT HAND ROTATION

Size 71

Part Number	Description
R910915846	SEAL KIT (BUNA-N)
R910932985	SEAL KIT (VITON)
R910942250	BEARING KIT
R910947801	ROTARY GROUP RH – RIGHT HAND ROTATION
R910947802	ROTARAY GROUP LH – LEFT HAND ROTATION

See index Page 221 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Aftermarket Parts

Popular cross-over filter elements

GoTo www.boschrexroth-us.com/GoToaftermarket

Part Number	Description
R928017121	9.60LA H3XL-F00-0-M SO3000
R928045173	1.1401 G40-A00-0-M
R928017483	10.110LA H10XL-A00-6-M SO3000
R928017667	10.1300LA H10XL-A00-6-M SO3000
R928017668	10.1300LA H6XL-A00-6-M SO3000
R928017506	10.160LA H10XL-A00-6-M SO3000
R928017529	10.240LA H10XL-A00-6-M SO3000
R928017552	10.330LA H10XL-A00-6-M SO3000
R928017575	10.500LA H10XL-A00-6-M SO3000
R928017598	10.660LA H10XL-A00-6-M SO3000
R928019959	16.7500/R P10-S00-0-M
R928016804	16.8700/R H10XL-S00-0-M
R928045584	2.0005 G40-A00-0-V
R928006376	2.0020 H6XL-A00-0-M
R928006699	2.0063 H3XL-A00-0-M
R928006862	2.0250 H6XL-A00-0-M
R928019029	2.56 P10-A00-0-M
R928046179	20.750 P25-S00-6-M
R928022781	4.06 P10-A00-0-M
R928028012	4.10 G200-A00-0-M
R902603750	62.0056K H10XL-J00-0-V
R928037484	80.130 H1XL-S00-0-M
R928019201	80.130 H6XL-S00-0-M
R928028010	80.30/20 P10-S00-0-V
R928028019	80.45/21 VS60-S00-0-M
R928016614	80.90 H10XL-S00-0-M
R928016612	80.90 P10-S00-0-M
R928022425	9.110LA H10XL-A00-0-V SO3000
R928017317	9.330LA H10XL-F00-0-M SO3000
R928017319	9.330LA H3XL-F00-0-M SO3000
R928017318	9.330LA H6XL-F00-0-M SO3000
R928017374	9.500LA H20XL-A00-0-M SO3000
R928048442	9.60 G25-A00-0-V-0024
R928017408	9.660LA H10XL-A00-0-M SO3000
R928017416	9.660LA H10XL-F00-0-M SO3000
R928017407	9.660LA H20XL-A00-0-M SO3000
R928017417	9.660LA H6XL-F00-0-M SO3000
R928022726	99.183677 MB15-C00-0-M
R928005636	1.0045 G25-A00-0-M

Part Number	Description
R928005639	1.0045 H10XL-A00-0-M
R928005640	1.0045 H20XL-A00-0-M
R928005672	1.0060 G25-A00-0-M
R928037731	10.2600LA H10XL-A00-0-M SO3000
R928035218	10.330LA H10XL-A00-B6-M SO3000
R928016662	16.7400/R H20XL-S00-0-M
R928016677	16.7500/S H10XL-S00-0-M
R928016673	16.7500/S H3XL-S00-0-M
R928016729	16.8304/X H6XL-S00-0-V
R928016950	16.9600/T H6XL-E00-0-M
R928006374	2.0020 G25-A00-0-M
R928006755	2.0100 H10XL-A00-0-M
R928006764	2.0100 H10XL-B00-0-M
R928006861	2.0250 H3XL-A00-0-M
R928006871	2.0250 H6XL-B00-0-M
R928025500	2.90 H10XL-C00-0-M
R902603298	62.0056K H20XL-J00-0-V
R902603243	62.0125K H20XL-J00-0-V
R902603004	62.0180K H20XL-J00-0-V
R928028556	84.60 H10XL-S00-4-M
R928017144	9.110LA H10XL-A00-0-M SO3000
R928017154	9.110LA H3XL-F00-0-M SO3000
R928017145	9.110LA H6XL-A00-0-M SO3000
R928017210	9.160LA H10XL-A00-0-M SO3000
R928017220	9.160LA H3XL-F00-0-M SO3000
R928017243	9.240LA H10XL-A00-0-M SO3000
R928017251	9.240LA H10XL-F00-0-M SO3000
R928017253	9.240LA H3XL-F00-0-M SO3000
R928017276	9.280LA H10XL-A00-0-M SO3000
R928017275	9.280LA H20XL-A00-0-M SO3000
R928017277	9.280LA H6XL-A00-0-M SO3000
R928017085	9.30LA H20XL-F00-0-M SO3000
R928017088	9.30LA H3XL-F00-0-M SO3000
R928017309	9.330LA H10XL-A00-0-M SO3000
R928017111	9.60LA H10XL-A00-0-M SO3000
R928017119	9.60LA H10XL-F00-0-M SO3000

See index Pages 221–223 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Aftermarket Parts

Rineer service part kits

GoTo www.boschrexroth-us.com/GoToaftermarket

BR Material #	Type of Kit	Description	
R986V02033	Spring Pack	M015 KT-SP-0150931	1 complete spring kit
R986V02035	Spring Pack	M037 KT-SP-0370936	1 complete spring kit
R986V02036	Spring Pack	M125 KT-SP-1250930	1 complete spring kit
R986V02037	Spring Pack	M125 KT-SP-1250993	1 complete spring kit
R986V04286	Service Kit	5/16 BALL CHECKS	12 pieces
R986V04287	Service Kit	M015 STD TIMING PLTS	2 pieces
R986V04288	Service Kit	M037 C62 TIMING PLTS	2 pieces
R986V04289	Service Kit	M125 PC TIMING PLTS	2 pieces
R986V02047	Service Kit	VANES 1250961PC	1 complete vane & spring kit
R986V02038	Service Kit	VANES V0150930	1 complete vane & spring kit
R986V02041	Service Kit	VANES V0371914PC	1 complete vane & spring kit
R986V02050	Service Kit	VANES V1251962-2S	1 complete vane & spring kit
R986V01643	Seal Kit	M015 KT-SE-0150004	1 complete seal kit
R986V01651	Seal Kit	M015 KT-SE-0150940	1 complete seal kit
R986V01687	Seal Kit	M037 KT-SE-0370973	1 complete seal kit
R986V01689	Seal Kit	M037 KT-SE-0370979	1 complete seal kit
R986V01690	Seal Kit	M037 KT-SE-0370982	1 complete seal kit
R986V01696	Seal Kit	M037 KT-SE-0371917	1 complete seal kit
R986V01747	Seal Kit	M125 KT-SE1250997	1 complete seal
R986V04301	Seal Kit	O-RINGS 2-160 NBR	12 pieces

See index Page 223 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
	Pumps and Motors			
	Variable Displacement Pumps			
7	***new*** A A10V O 28 DFR /52L-VRC64N00	R902504637	3	10
7	***new*** A A10V O 28 DFR /52R-VRC64N00	R902504639	3	10
7	***new*** A A10V O 28 DFR1 /52R-VSC64N00	R902504642	3	10
7	***new*** A A10V O 28 DFR1 /52L-VRC64N00	R902504647	3	10
7	***new*** A A10V O 28 DFR1 /52L-VSC64N00	R902504644	3	10
7	***new*** A A10V O 28 DFR1 /52R-VRC64N00	R902504651	3	10
7	***new*** A A10V O 28 DR /52L-VRC64N00	R902504634	3	10
7	***new*** A A10V O 28 DR /52R-VRC64N00	R902504645	3	10
7	***new*** A A10V O 45 DFR /52L-VSC64N00 *GO2*	R902504308	3	10
7	***new*** A A10V O 45 DFR /52R-VSC62N00	R902504660	3	10
7	***new*** A A10V O 45 DFR /52R-VUC62N00	R902504662	3	10
7	***new*** A A10V O 45 DFR1 /52L-VSC64N00	R902504652	3	10
7	***new*** A A10V O 45 DFR1 /52L-VUC64N00	R902504653	3	10
7	***new*** A A10V O 45 DFR1 /52R-VSC62N00	R902504663	3	10
7	***new*** A A10V O 45 DFR1/52R-VUC62N00	R902504664	3	10
7	***new*** A A10V O 45 DR /52R-VSC62N00	R902504666	3	10
7	***new*** A A10V O 45 DR /52R-VSC64N00	R902504658	3	10
7	***new*** A A10V O 45 DR /52R-VUC62N00	R902504668	3	10
7	***new*** A A10V O 45 DR /52L-VUC64N00	R902504656	3	10
7	***new*** A A10V O 45 DR/52L-VSC64N00	R902504654	3	10
7	***new*** A A10V O 60 DFR /52L-VSC62K68	R902504821	3	10
7	***new*** A A10V O 60 DFR /52L-VSC61N00	R902504690	3	10
7	***new*** A A10V O 60 DFR /52L-VSC62K04	R902504803	3	10
7	***new*** A A10V O 60 DFR /52L-VSC62N00	R902504746	3	10
7	***new*** A A10V O 60 DFR /52L-VUC61N00	R902504698	3	10
7	***new*** A A10V O 60 DFR /52L-VUC62N00	R902504755	3	10
7	***new*** A A10V O 60 DFR /52L-VUD62N00	R902504736	3	10
7	***new*** A A10V O 60 DFR /52L-VWC61N00	R902504721	3	10
7	***new*** A A10V O 60 DFR /52L-VWC62N00	R902504776	3	10
7	***new*** A A10V O 60 DFR /52L-VWD61N00	R902504709	3	10
7	***new*** A A10V O 60 DFR /52L-VWD62N00	R902504765	3	10
7	***new*** A A10V O 60 DFR /52R-VSC62K04	R902504800	3	10
7	***new*** A A10V O 60 DFR /52R-VSC62K68	R902504820	3	10
7	***new*** A A10V O 60 DFR /52R-VSC62N00	R902504743	3	10
7	***new*** A A10V O 60 DFR /52R-VSD62K68	R902504810	3	10
7	***new*** A A10V O 60 DFR /52R-VSD62N00	R902504727	3	10
7	***new*** A A10V O 60 DFR /52R-VUC61N00	R902504697	3	10
7	***new*** A A10V O 60 DFR /52R-VUD62N00	R902504733	3	10
7	***new*** A A10V O 60 DFR /52R-VWC61N00	R902504717	3	10
7	***new*** A A10V O 60 DFR /52R-VWC62N00	R902504773	3	10
7	***new*** A A10V O 60 DFR /52R-VWD61N00	R902504705	3	10
7	***new*** A A10V O 60 DFR /52R-VWD62N00	R902504761	3	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
7	***new*** A A10V O 60 DFR/52L-VSD62K04	R902504790	3	10
7	***new*** A A10V O 60 DFR/52L-VSD62K68	R902504813	3	10
7	***new*** A A10V O 60 DFR/52L-VUD61N00	R902504679	3	10
7	***new*** A A10V O 60 DFR/52R-VSC61N00	R902504687	3	10
7	***new*** A A10V O 60 DFR/52R-VSD62K04	R902504787	3	10
7	***new*** A A10V O 60 DFR/52R-VUD61N00	R902504675	3	10
7	***new*** A A10V O 60 DFR1 /52L-VSC62K68	R902504818	3	10
7	***new*** A A10V O 60 DFR1 /52L-VSC62K04	R902504797	3	10
7	***new*** A A10V O 60 DFR1 /52L-VSD61N00	R902504669	3	10
7	***new*** A A10V O 60 DFR1 /52R-VSC62K04	R902504802	3	10
7	***new*** A A10V O 60 DFR1 /52R-VSD62K68	R902504812	3	10
7	***new*** A A10V O 60 DFR1/52L-VSC61N00	R902504692	3	10
7	***new*** A A10V O 60 DFR1/52L-VSC62N00	R902504748	3	10
7	***new*** A A10V O 60 DFR1/52L-VSD62K68	R902504808	3	10
7	***new*** A A10V O 60 DFR1/52L-VSD62N00	R902504728	3	10
7	***new*** A A10V O 60 DFR1/52L-VUC61N00	R902504700	3	10
7	***new*** A A10V O 60 DFR1/52L-VUD61N00	R902504682	3	10
7	***new*** A A10V O 60 DFR1/52L-VUD62N00	R902504738	3	10
7	***new*** A A10V O 60 DFR1/52L-VWC61N00	R902504723	3	10
7	***new*** A A10V O 60 DFR1/52L-VWC62N00	R902504778	3	10
7	***new*** A A10V O 60 DFR1/52L-VWD61N00	R902504712	3	10
7	***new*** A A10V O 60 DFR1/52L-VWD62N00	R902504768	3	10
7	***new*** A A10V O 60 DFR1/52R-VSC61N00	R902504689	3	10
7	***new*** A A10V O 60 DFR1/52R-VSC62N00	R902504745	3	10
7	***new*** A A10V O 60 DFR1/52R-VSD62K04	R902504789	3	10
7	***new*** A A10V O 60 DFR1/52R-VUC62N00	R902504753	3	10
7	***new*** A A10V O 60 DFR1/52R-VUD61N00	R902504678	3	10
7	***new*** A A10V O 60 DFR1/52R-VUD62N00	R902504735	3	10
7	***new*** A A10V O 60 DFR1/52R-VWC61N00	R902504720	3	10
7	***new*** A A10V O 60 DFR1/52R-VWC62N00	R902504775	3	10
7	***new*** A A10V O 60 DFR1/52R-VWD61N00	R902504708	3	10
7	***new*** A A10V O 60 DFR1/52R-VWD62N00	R902504764	3	10
7	***new*** A A10V O 60 DR /52L-VSC61N00	R902504695	3	10
7	***new*** A A10V O 60 DR /52L-VSC62K68	R902504824	3	10
7	***new*** A A10V O 60 DR /52L-VSC62N00	R902504751	3	10
7	***new*** A A10V O 60 DR /52L-VSD62N00	R902504732	3	10
7	***new*** A A10V O 60 DR /52L-VUC61N00	R902504703	3	10
7	***new*** A A10V O 60 DR /52L-VUC62N00	R902504759	3	10
7	***new*** A A10V O 60 DR /52L-VUD62N00	R902504741	3	10
7	***new*** A A10V O 60 DR /52L-VWC61N00	R902504726	3	10
7	***new*** A A10V O 60 DR /52L-VWC62N00	R902504781	3	10
7	***new*** A A10V O 60 DR /52L-VWD61N00	R902504715	3	10
7	***new*** A A10V O 60 DR /52L-VWD62N00	R902504771	3	10
7	***new*** A A10V O 60 DR /52R-VSC62N00	R902504749	3	10
7	***new*** A A10V O 60 DR /52R-VSD62N00	R902504730	3	10
7	***new*** A A10V O 60 DR /52R-VUC61N00	R902504701	3	10
7	***new*** A A10V O 60 DR /52R-VUC62N00	R902504757	3	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
7	***new*** A A10V O 60 DR /52R-VUD62N00	R902504739	3	10
7	***new*** A A10V O 60 DR /52R-VWC61N00	R902504724	3	10
7	***new*** A A10V O 60 DR /52R-VWC62N00	R902504779	3	10
7	***new*** A A10V O 60 DR /52R-VWD61N00	R902504713	3	10
7	***new*** A A10V O 60 DR /52R-VWD62N00	R902504769	3	10
7	***new*** A A10V O 60 DR /52L-VSC62K04	R902504806	3	10
7	***new*** A A10V O 60 DR /52R-VSC61N00	R902504693	3	10
7	***new*** A A10V O 60 DR /52R-VSC62K04	R902504804	3	10
7	***new*** A A10V O 60 DR /52R-VSC62K68	R902504822	3	10
7	***new*** A A10V O 60 DR /52R-VSD61N00	R902504671	3	10
7	***new*** A A10V O 60 DR /52R-VSD62K68	R902504814	3	10
7	***new*** A A10V O 60 DR/52L-VSD61N00	R902504673	3	10
7	***new*** A A10V O 60 DR/52L-VSD62K04	R902504793	3	10
7	***new*** A A10V O 60 DR/52L-VSD62K68	R902504816	3	10
7	***new*** A A10V O 60 DR/52L-VUD61N00	R902504685	3	10
7	***new*** A A10V O 60 DR/52R-VSD62K04	R902504791	3	10
7	***new*** A A10V O 85 DFR /52L-VUC61N00	R902504835	3	10
7	***new*** A A10V O 85 DFR /52R-VUC61N00	R902504834	3	10
7	***new*** A A10V O 85 DFR1/52L-VUC61N00	R902504832	3	10
7	***new*** A A10V O 85 DFR1/52L-VUC62N00	R902504826	3	10
7	***new*** A A10V O 85 DR /52R-VUC61N00	R902504838	3	10
7	***new*** A A10V O 85 DR /52L-VUC61N00	R902504836	3	10
7	***new*** A A10V O 85 DR /52R-VUC62N00	R902504830	3	10
7	***new*** A A10V O 85 DR/52L-VUC62N00	R902504828	3	10
7	***new*** A A10VSO 18 DFR /31R-VKC62N00	R902502736	3	10
7	A A10VSO 71 DR /31R-VPA42N00	R902502988	3	10
7	A A10VSO 71 DRG /31R-PPA12K01	R902502989	3	10
7	A A10VSO100 DFR1/31R-VPA12N00	R902502996	3	10
7	A A10VSO140 DFR1/31R-VPB12N00	R902503000	3	10
7	A A10V O 28 DFR /31L-VSC62N00	R902504304	3	10
7	A A10V O 28 DFR /31R-VSC62N00	R902502726	3	10
7	A A10V O 28 DFR /52L-VSC64N00	R902504312	3	10
7	A A10V O 28 DFR /52R-VSC64N00	R902502740	3	10
7	A A10V O 28 DFR1/31R-VSC62N00	R902502735	3	10
7	A A10V O 28 DR /52L-VSC64N00	R902504317	3	10
7	A A10V O 28 DR /52R-VSC64N00	R902504314	3	10
7	A A10V O 45 DFR /31L-VUC62N00	R902504295	3	10
7	A A10V O 45 DFR /31R-VSC62K01	R902502728	3	10
7	A A10V O 45 DFR /31R-VSC62N00	R902502703	3	10
7	A A10V O 45 DFR /52L-VSC64N00	R902502739	3	10
7	A A10V O 45 DFR /52L-VUC64N00	R902504305	3	10
7	A A10V O 45 DFR /52R-VSC64N00	R902401405	3	10
7	A A10V O 45 DFR /52R-VUC64N00	R902504309	3	10
7	A A10V O 45 DFR1/31L-VSC62N00	R910910727	3	10
7	A A10V O 45 DFR1/52R-VSC64N00	R902502738	3	10
7	A A10V O 45 DFR1/52R-VUC64N00	R902504306	3	10
7	A A10V O 45 DR /52R-VUC64N00	R902504310	3	10

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7	A A10V O 45 DRG /31L-VSC62N00	R902504296	3	10
7	A A10V O 60 DFR /52R-VSD61N00	R902504320	3	10
7	A A10V O 60 DFR1/52L-VSD62K04	R902504292	3	10
7	A A10V O 60 DFR1/52R-VSD61N00	R902502753	3	10
7	A A10V O 60 DFR1/52R-VSD62N00	R902504316	3	10
7	A A10V O 60 DFR1/52R-VUC61N00	R902504319	3	10
7	A A10V O 71 DFR /31L-VSC91N00	R902502700	3	10
7	A A10V O 71 DFR /31L-VSC92N00	R902502710	3	10
7	A A10V O 71 DFR /31R-VSC92K68	R902502697	3	10
7	A A10V O 71 DFR /31R-VSC92N00	R902502698	3	10
7	A A10V O 71 DFR1/31R-VSC94N00	R902504299	3	10
7	A A10V O 71 DR /31R-VSC92N00	R902502711	3	10
7	A A10V O 71 DRG /31R-VSC92K68	R902502723	3	10
7	A A10V O 85 DFR /52L-VUC62N00	R902504326	3	10
7	A A10V O 85 DFR /52R-VUC62N00	R902504322	3	10
7	A A10V O 85 DFR1/52R-VUC61N00	R902501434	3	10
7	A A10V O 85 DFR1/52R-VUC62N00	R902504330	3	10
7	A A10V O100 DFR /31L-VUC62N00	R902504293	3	10
7	A A10V O100 DFR /31R-VUC62K07	R902504300	3	10
7	A A10V O100 DFR /31R-VUC62N00	R902504294	3	10
7	A A10V O100 DFR1/31L-VUC61N00	R902503597	3	10
7	A A10V O100 DFR1/31R-VUC62K07	R902504303	3	10
7	A A10VO140 DFR /31L-VSD62N00	R902504324	3	10
7	A A10VO140 DFR /31R-VSD62N00	R902504328	3	10
7	A A10VO140 DR /31L-VSD62N00	R902504333	3	10
7	A A10VO140 DR /31R-VSD62N00	R902504331	3	10
7	A A10VSO 10 DFR /52R-VKC64N00 E	R902476345	3	10
7	A A10VSO 18 DFR /31R-VKC62N00	R910930740	3	10
7	A A10VSO 18 DFR /31R-VSC62N00	R902503236	3	10
7	A A10VSO 18 DFR /31R-VUC62N00	R902504298	3	10
7	A A10VSO 18 DR /31R-VKC62N00	R902502702	3	10
7	A A10VSO 18 DRG /31R-VKC62N00	R902502752	3	10
7	A AA10VSO 28 DFR /31R-VKC62K01	R902502185	3	10
7	***new*** A AA10VSO 28 DFR /31R-VKC62N00	R902502732	3	10
7	A AA10VSO 28 DR /31R-VKC62N00	R902401464	3	10
7	A AA10VSO 28 DRG /31L-VSC62N00	R902502364	3	10
7	A AA10VSO 28 DRG /31R-VKC62N00	R902502734	3	10
7	A AA10VSO 45 DFR /31R-VKC62K01	R902502188	3	10
7	***new*** A AA10VSO 45 DFR /31R-VKC62N00	R902502733	3	10
7	A AA10VSO 45 DR /31R-VKC62N00	R902502741	3	10
7	A AA10VSO 45 DRG /31R-VKC62N00	R902502737	3	10
7	A AA10VSO 71 DFR /31R-VKC92K01	R902502186	3	10
7	A AA10VSO 71 DFR /31R-VKC92N00	R902400497	3	10
7	A AA10VSO 71 DR /31L-VKC92N00	R902502981	3	10
7	A AA10VSO 71 DR /31R-VKC92K01	R902502980	3	10
7	A AA10VSO 71 DR /31R-VKC92K05	R902502984	3	10
7	A AA10VSO 71 DR /31R-VKC92K08	R902503042	3	10

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7		A AA10VSO 71 DR /31R-VKC92N00	R902502701	3	10
7		A AA10VSO 71 DRG /31R-VKC92K03	R902502715	3	10
7		A AA10VSO 71 DRG /31R-VKC92K40	R902502982	3	10
7		A AA10VSO 71 DRG /31R-VKC92N00	R902502985	3	10
7		A AA10VSO100 DFR /31R-VKC62K03	R902502994	3	10
7		A AA10VSO100 DFR /31R-VKC62K08	R902502995	3	10
7	***new***	A AA10VSO100 DFR /31R-VKC62N00	R902502730	3	10
7		A AA10VSO100 DR /31R-VKC62K01	R902502992	3	10
7		A AA10VSO100 DR /31R-VKC62K38	R902502991	3	10
7		A AA10VSO100 DR /31R-VKC62N00	R902502997	3	10
7		A AA10VSO100 DRG /31R-VKC62N00	R902502990	3	10
7		A AA10VSO140 DFR /31R-VKD62K01	R902503002	3	10
7		A AA10VSO140 DFR /31R-VKD62N00	R910940042	3	10
7		A AA10VSO140 DFR1/31R-VKD62K01	R902502998	3	10
7		A AA10VSO140 DR /31R-VKD62N00	R902503003	3	10
7		A AA10VSO140 DR /31R-VKD62N00	R902502731	3	10
7		A AA10VSO140 DRG /31R-VKD62K08	R902502999	3	10
7		A AA10VSO140 DRG /31R-VKD62N00	R902503004	3	10
7		A10V O 60 DFR1/52R-PSD62N00 -SO 97	R902401219	3	10
7		A10V O 60 DRG /52R-VUC62N00 -SO 97	R902501461	3	10
7		AA10VSO 71 DFR1/31R-VKC92N00	R902502127	3	10
7		AEAA10VSO 71 DR /31R-VKC92N00	R902502986	3	10
7		AH A10V O 45 DFR /52R-PSC62N00	R902406182	3	10
7		AL A10V O100 DR /31R-VUC62N00	R902500164	3	10
7		**External Gear Pumps**			
8		AZPF-12-004RQR12MB	9510290021	3	10
8		AZPF-12-004RRR12MB	9510290015	3	10
8		AZPF-12-005RQR12MB	9510290022	3	10
8		AZPF-12-005RRR12MB	9510290005	3	10
8		AZPF-12-008RQR12MB	9510290023	3	10
8		AZPF-12-008RRR12MB	9510290017	3	10
8		AZPF-12-011-RQR12MB	9510290024	3	10
8		AZPF-12-011-RRR12MB	9510290414	3	10
8		AZPF-12-014-RQR12MB	9510290025	3	10
8		AZPF-12-014-RRR12MB	9510290004	3	10
8		AZPF-12-016RQR12MB	9510290122	3	10
8		AZPF-12-016RQR12MB-S0040 - OK	9510290026	3	10
8		AZPF-12-016RRR12MB	9510290056	3	10
8		AZPF-12-019RQR12MB	9510290123	3	10
8		AZPF-12-019RRR12MB	9510290125	3	10
8		AZPF-12-022RQR12MB	9510290124	3	10
8		AZPF-12-022RQR12MB-S0040	9510290028	3	10
8		AZPF-12-022RRR12MB	9510290126	3	10
8		AZPF-22-025RQR12MB-S0040	9510290112	3	10
8		AZPF-22-025RRR12MB	9510290111	3	10
8		AZPF-22-028RQR12MB-S0040	9510290115	3	10
8		AZPF-22-028RRR12MB	9510290114	3	10

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8	AZPN-12-020-RDC12MB	9510390001	3	10
8	AZPN-12-022-RDC12MB	9510390002	3	10
8	AZPN-12-025RDC12MB-S0040	9510390003	3	10
8	AZPN-12-028RDC12MB-S0040	9510390004	3	10
8	AZPN-12-032RDC12MB-S0040	9510390005	3	10
8	AZPN-12-036RDC12MB-S0040	9510390006	3	10
	Variable Vane Pumps			
9	PV7-1X/100-118RE07MC0-16	R900506809	3	10
9	PV7-1X/10-14RE01MC0-16	R900580381	3	10
9	PV7-1X/16-20RE01MC0-16	R900580382	3	10
9	PV7-1X/25-30RE01MC0-16	R900580383	3	10
9	PV7-1X/40-45RE37MC0-16	R900580384	3	10
9	PV7-1X/63-71RE07MC0-16	R900506808	3	10
9	REGULATOR V7-1A/…C0-16 BG	R901169899	3	10
	Vane Pumps			
10	0513R18C3VPV100SM21HYB04	0513850216	3	10
10	0513R18C3VPV100SM21HYB04 P1	0513850214	3	10
10	0513R18C3VPV130SM21HYB04	0513860250	3	10
10	0513R18C3VPV130SM21HYB04P1	0513860258	3	10
10	0513R18C3VPV130SM21HZB04	0513860252	3	10
10	0513R18C3VPV130SM21HZB04 P1	0513860238	3	10
10	0513R18C3VPV164SM21HY B04	0513870226	3	10
10	0513R18C3VPV164SM21HYB04 P1	0513870216	3	10
10	0513R18C3VPV16SM21FYB03	0513300208	3	10
10	0513R18C3VPV16SM21FZB03	0513300202	3	10
10	0513R18C3VPV16SM21HYB03	0513300212	3	10
10	0513R18C3VPV16SM21HYB03 P1	0513300246	3	10
10	0513R18C3VPV25SM21FYB03	0513400208	3	10
10	0513R18C3VPV25SM21HYB03	0513400212	3	10
10	0513R18C3VPV32SM21FYB03	0513500216	3	10
10	0513R18C3VPV32SM21FZB03	0513500206	3	10
10	0513R18C3VPV32SM21HYB03	0513500220	3	10
10	0513R18C3VPV32SM21HYB03 P1	0513500254	3	10
10	0513R18C3VPV32SM21HZB03	0513500218	3	10
10	0513R18C3VPV45SM21HYB05	0513600214	3	10
10	0513R18C3VPV45SM21HYB05P1	0513600234	3	10
10	0513R18C3VPV45SM21HZB05	0513600240	3	10
10	0513R18C3VPV63SM21HYB05	0513700218	3	10
10	0513R18C3VPV63SM21HYB05P1	0513700242	3	10
10	0513R18C3VPV63SM21HZB05	0513700214	3	10
10	0513R18C3VPV80SM21HYB05	0513800248	3	10
10	0513R18C3VPV80SM21HYB05P1	0513800238	3	10
10	0513R18C3VPV80SM21HZB05	0513800236	3	10
10	PRESS REG VPV16-32 210 BAR F CONTROL SAE	9511230595	3	10
10	PRESS REG VPV16-32 210 BAR H CONTROL SAE	9511230601	3	10
10	PRESS REG VPV45-164 210 BAR H CONTROL SAE	9511230610	3	10

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Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
		Fixed Displacement Vane Pumps			
11		PVV1-1X/027RJ15DMB	R900939075	3	10
11		PVV1-1X/036RJ15DMB	R900965314	3	10
11		PVV1-1X/046RJ15DMB	R900704430	3	10
11		PVV2-1X/040RA15UMB	R900931138	3	10
11		PVV2-1X/055RA15UMB	R900928955	3	10
11		PVV2-1X/068RA15DMB	R900935466	3	10
11		PVV4-1X/069RA15DMC	R900936293	3	10
11		PVV4-1X/082RA15DMC	R900931548	5	10
11		PVV4-1X/098RA15DMC	R900936294	3	10
11		PVV4-1X/122RA15DMC	R900929542	3	10
11		PVV5-1X/154RA15DMC	R900936296	3	10
11		PVV5-1X/183RA15DMC	R900936297	3	10
11		PVV5-1X/193RA15DMC	R900929349	3	10
		Radial Piston Pumps			
12		PR4-3X/1,60-700RA12M01	R901093640	3	10
12		PR4-3X/10,00-500RA01M01	R901089173	3	10
12		PR4-3X/10,00-500RA12M01	R901093641	3	10
12		PR4-3X/2,00-700RA12M01	R901089758	3	10
12		PR4-3X/2,50-700RA12M01	R901093639	3	10
12		PR4-3X/3,15-500RA12M01	R901093871	3	10
12		PR4-3X/5,00-500RA12M01	R901093643	3	10
12		PR4-3X/8,00-700RA12M01	R901093864	3	10
		Mini-Radial Piston Pumps			
13		PR4-1X/0,40-700WA01M01	R900485830	3	10
13		PR4-1X/0,63-700WA01M01	R900345609	3	10
13		PR4-1X/1,00-450WA01M01	R900490630	3	10
		Variable Displacement Motors			
14	***new***	AA6VM107HD1/63W-VSD52000-B	R902092169	3	10
14	***new***	AA6VM160HD1/63W-VSD520B-E	R902092085	3	10
14	***new***	AA6VM80EZ3/63W-VSC520B-E *AL*	R902092121	3	10
14	***new***	AA6VM80HD1/63W-VSC520B-E	R902092070	3	10
		External Gear Motors			
15		AZMF-12-008-UQR12ML-S0022	9511290013	3	10
15		AZMF-12-011-UQR12ML-S0022	9511290014	3	10
15		AZMF-12-014-UQR12ML-S0018	9511290027	3	10
15		AZMF-12-016-UQR12ML	9511290010	3	10
15		AZMF-12-019-UQR12ML-S0018	9511290029	3	10
15		AZMF-12-019-UQR12ML-S0022	9511290017	3	10
15		AZMF-12-022-UQR12ML-S0022	9511290018	3	10
		Radial Piston Motors			
16	***new***	MCR3 400 CC wheel Motors with Wheel Studs, unbraked, single speed	R921807175	2	10
16	***new***	MCR3, 365cc, spline shaft, unbraked, single speed	R921811056	2	10
16	***new***	MCR3. 400cc wheel Motors w/brake, single speed	R921807578	2	10
16	***new***	MCR5, 820cc, keyed shaft, unbraked, single speed	R921805100	2	10

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	Fixed Displacement Motors			
17	***new*** AA2FM107/61W-VSD510	R902137843	3	10
17	***new*** AA2FM125/61W-VSD510	R902138182	3	10
17	***new*** AA2FM125/61W-VSD520	R902137733	3	10
17	***new*** AA2FM180/61W-VSD510	R902193869	3	10
17	***new*** AA2FM180/61W-VSD520	R902193712	3	10
17	***new*** AA2FM28/61W-VSD520	R902198240	3	10
17	***new*** AA2FM28/61W-VSD540	R902197566	3	10
17	***new*** AA2FM32/61W-VSD520	R902202055	3	10
17	***new*** AA2FM32/61W-VSD540	R902198042	3	10
17	***new*** AA2FM45/61W-VSD510	R902193514	3	10
17	***new*** AA2FM45/61W-VSD520	R902196957	3	10
17	***new*** AA2FM63/61W-VSD510	R902161224	3	10
17	***new*** AA2FM63/61W-VSD520	R902160055	3	10
17	***new*** AA2FM80/61W-VUDN520	R902137579	3	10
	High Torque Vane Motors			
18	***new*** MVS15-M015-61-1S-006-31-B1-QB-000	R986V00941	3	10
18	***new*** MVS15-M015-61-1S-008-31-B1-QB-000	R986V00974	3	10
18	***new*** MVS15-M015-61-1S-009-30-B1-QB-000	R986V00983	3	10
18	***new*** MVS15-M015-61-1S-013-30-B1-QB-000	R986V00875	3	10
18	***new*** MVS15-M015-61-1S-015-30-B1-QB-000	R986V00894	3	10
18	***new*** MVS15-M015-61-1S-015-31-B1-QB-000	R986V00909	3	10
18	***new*** MVS15-M015-61-1S-015-31-B1-TB-000	R986V00905	3	10
19	***new*** MVS37-M037-A2-1S-020-30-B1-TBB-000	R986V00435	3	10
19	***new*** MVS37-M037-A2-1S-020-31-B1-TBB-000	R986V00441	3	10
19	***new*** MVS37-M037-A2-1S-026-30-B1-QBB-000	R986V00452	3	10
19	***new*** MVS37-M037-A2-1S-026-30-B1-TBB-000	R986V00451	3	10
19	***new*** MVS37-M037-A2-1S-026-31-B1-TBB-000	R986V00454	3	10
19	***new*** MVS37-M037-A2-1S-032-31-B1-TBB-000	R986V00469	3	10
19	***new*** MVS37-M037-D2-2S-020-30-T1-TVD-127	R986V00697	3	10
19	***new*** MVS37-M037-D2-2S-020-30-T1-TVD-141	R986V00696	3	10
19	***new*** MVS37-M037-D2-2S-020-31-B1-TVD-112	R986V00693	3	10
	 **Check Valves**			
	S-Check Valves			
20	S 10 A1.0//12	R900497659	5	10
20	S 15 A1.0/	R900420537	6	10
20	S 25 A1.0//12	R900455138	7	10
20	S 30 A1.0//12	R900492887	8	10
	Cartridge Type Check Valves			
21	M-SR 10 KE02-1X/	R900345745	5	10
21	M-SR 10 KE05-1X/	R900344549	5	10
21	M-SR 10 KE05-1X/V	R900348632	5	10
21	M-SR 15 KE02-1X/	R900348943	5	10
21	M-SR 15 KE05-1X/	R900345372	5	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
21	M-SR 20 KE02-1X/	R900345744	5	10
21	M-SR 20 KE05-1X/V	R900350795	5	10
21	M-SR 25 KE05-1X/	R900344778	5	10
21	M-SR 30 KE02-1X/	R900345743	5	10
21	M-SR 30 KE05-1X/	R900344919	5	10
21	M-SR 30 KE05-1X/V	R900350797	5	10
21	M-SR 30 KE50-1X/	R900349973	5	10
21	M-SR 8 KE05-1X/V	R900357718	5	10
21	M-SR 8 KE30-1X/	R900348329	5	10
	Filling Valves			
22	ZSF 125 F1-1-2X/M/01	R901089756	5	10
22	ZSF 50 F1-1-1X/M/12	R900539731	5	10
22	ZSF 80 F1-1-1X/M/12	R900539733	5	10
	SV & SL-Check Valves			
23	SL 10 PA1-4X/	R900483371	5	10
23	SL 20 PA1-4X/	R900587559	5	10
23	SL 30 PA1-4X/	R900587560	5	10
23	SL 30 PA1-4X/V	R900500095	5	10
23	SV 10 PA1-4X/	R900483369	5	10
23	SV 10 PA1-4X/V	R900463364	5	10
23	SV 20 PA1-4X/	R900587557	5	10
23	SV 30 PA1-4X/	R900587558	5	10
	Z1S-Check Valves			
24	Z1S 10 B05-2-4X/F	R901274766	5	10
24	Z1S 10 P05-1-4X/F	R901274759	5	10
24	Z1S 10 P1-3X/V	R900417590	5	10
24	Z1S 10 TA05-2TB9-4X/F	R901274760	5	10
24	Z1S 6 P05-4X/V	R901086051	5	10
24	Z1S 6 T05-4X/V	R901086058	5	10
	Piloted-to-Open Check Valves			
25	Z2S 10-1-3X/	R900407394	5	10
25	Z2S 10-1-3X/V	R900407439	5	10
25	Z2S 10A1-3X/	R900407424	5	10
25	Z2S 10A1-3X/V	R900407440	5	10
25	Z2S 10B1-3X/V	R900407465	5	10
25	Z2S 16-1-5X/	R900328797	5	10
25	Z2S 16-1-5X/V	R900412459	5	10
25	Z2S 22-1-5X/	R900432915	5	10
25	Z2S 22-1-5X/V	R900436495	5	10
25	Z2S 6-1-6X/	R900347495	5	10
25	Z2S 6-1-6X/V	R900347504	5	10
25	Z2S 6-2-6X/	R900347496	5	10
25	Z2S 6-2-6X/V	R900347505	5	10
25	Z2S 6A1-6X/V	R900347507	5	10
25	Z2S 6B1-6X/	R900347501	5	10
25	Z2S 6B1-6X/V	R900347510	5	10

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Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
		Pilot Operated Check Valves			
26		Z2SRK 10-1-1X/V	R900564520	5	10
26		Z2SRK 6-1-1X/V	R900564519	5	10
		Directional Valves 			
		SED & SEW-Directional Poppet Valves			
27		M-3SED 10 CK1X/350CG24N9K4	R900086685	5	10
27		M-3SED 10 UK1X/350CG24N9K4	R900051053	5	10
27		M-3SED 6 CK1X/350CG24N9K4	R900052392	5	10
27		M-3SED 6 CK1X/350CG96N9K4	R900218734	5	10
27		M-3SED 6 UK1X/350CG24N9K4	R900052621	5	10
27		M-3SED 6 UK1X/350CG96N9K4	R900207848	5	10
27		M-3SEW 10 C1X/420MG24N9K4	R900075565	5	10
27		M-3SEW 10 U1X/420MG24N9K4	R900075563	5	10
27		M-3SEW 10 U1X/420MG96N9K4/V	R900051907	5	10
27		M-3SEW 6 C3X/420MG24N9K4	R900566273	5	10
27		M-3SEW 6 C3X/420MG24N9K4/V	R900049834	5	10
27		M-3SEW 6 C3X/420MG96N9K4	R900570252	5	10
27		M-3SEW 6 C3X/630MG24N9K4/V	R900204628	5	10
27		M-3SEW 6 U3X/420MG24N9K4	R900566283	5	10
27		M-3SEW 6 U3X/420MG24N9K4/V	R900570174	5	10
27		M-3SEW 6 U3X/420MG96N9K4	R900570744	5	10
27		M-3SEW 6 U3X/420MG96N9K4/V	R900056442	5	10
27		M-3SEW 6 U3X/630MG96N9K4	R900205344	5	10
		4WMM & 4WMR-Directional Spool Valves			
28		4WMM 10 E3X/	R900589983	5	10
28		4WMM 10 E3X/F	R900589975	5	10
28		4WMM 10 J3X/	R900586919	5	10
28		4WMM 6 D5X/	R900468328	5	10
28		4WMM 6 D5X/F	R900469301	5	10
28		4WMM 6 E5X/	R900467936	5	10
28		4WMM 6 E5X/F	R900405611	5	10
28		4WMM 6 G5X/	R900471209	5	10
28		4WMM 6 G5X/F	R900469533	5	10
28		4WMM 6 J5X/	R900469302	5	10
28		4WMM 6 J5X/F	R900466583	5	10
28		4WMR 6 D5X/	R900465984	3	10
		WP & WH-Directional Valves w/ Fluid Actuation			
29	***new***	4WH16D7X/	R900923871	5	10
29	***new***	4WH22Y7X/	R900491846	5	10
29		4WH6D5X//5	R900955873	5	10
29		4WP6D6X/5	R978917418	5	10
29		4WP6D6X/N/5	R978918927	5	10
29		4WP6E6X/5	R978917419	5	10
29		4WP6E6X/N/5	R978919013	5	10
29		4WP6J6X/N/5	R978919116	5	10

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		WE-Directional Spool Valves			
30		3WE 6 A6X/EG24N9K4	R900561180	5	10
30		3WE10A3X/CG24N9K4	R900592014	5	10
30		3WE6A6X/EG24N9K4/62	R978017740	5	10
30	***new***	3WE6A6X/EG24N9K4/62=CSA	R978017865	5	10
30	***new***	3WE6A6X/EG24N9K4/V/62=CSA	R978021044	5	10
30	***new***	3WE6A6X/EW110N9K4/62=CSA	R978017859	5	10
30	***new***	3WE6A9-6X/EG24N9K4/62 CSA	R978917519	5	10
30	***new***	3WE6B6X/EG24N9K4/V/62 CSA	R978916768	5	10
30	***new***	3WE6B9-6X/EG24N9K4/62 CSA	R978906497	5	10
30	***new***	3WE6B9-6X/EW110N9K4/62=CSA	R978022500	5	10
30		4WE10C3X/CG12N9K4	R900938674	5	10
30		4WE10C3X/CG24N9K4	R900593277	5	10
30		4WE10C3X/CW110N9K4	R900906473	5	10
30		4WE10C3X/OFCG24N9K4	R900500925	5	10
30	***new***	4WE10C4X/CG12N9DA	R978910297	5	10
30		4WE10C4X/CG24N9DA	R978908877	5	10
30	***new***	4WE10C4X/CW110N9DA	R978908696	5	10
30	***new***	4WE10C4X/OFCG12N9DA	R978911140	5	10
30		4WE10D3X/CG24N9K4	R900589933	5	10
30		4WE10D3X/CG24N9K4/V	R900593676	5	10
30		4WE10D3X/CW110N9K4	R900598925	5	10
30	***new***	4WE10D3X/OFCG12N9K4	R978911960	5	10
30		4WE10D3X/OFCG24N9K4	R900591664	5	10
30		4WE10D3X/OFCW110N9K4	R900594948	5	10
30	***new***	4WE10D4X/CG12N9DA	R978908826	5	10
30		4WE10D4X/CG24N9DA	R978908490	5	10
30	***new***	4WE10D4X/CG24N9DAL	R978908419	5	10
30		4WE10D4X/CW110N9DA	R978908566	5	10
30		4WE10D4X/CW110N9DAL	R900713654	5	10
30	***new***	4WE10D4X/OFCW110N9DA	R978910127	5	10
30		4WE10D4X/OFCW110N9DAL	R978908591	5	10
30		4WE10E3X/CG12N9K4	R900945576	5	10
30		4WE10E3X/CG24N9K4	R900588201	5	10
30		4WE10E3X/CG24N9K4=CSA	R900934305	5	10
30		4WE10E3X/CW110N9K4	R900597186	5	10
30		4WE10E4X/CG12N9DA	R978907461	5	10
30		4WE10E4X/CG24N9DA	R978908742	5	10
30	***new***	4WE10E4X/CG24N9DAL	R978909385	5	10
30		4WE10E4X/CW110N9DA	R978908567	5	10
30		4WE10E4X/CW110N9DA/V	R978909419	5	10
30		4WE10E4X/CW110N9DAL	R900979378	5	10
30	***new***	4WE10EA4X/CW110N9DA	R978910021	5	10
30	***new***	4WE10EA4X/CW110N9DAL	R978908810	5	10
30		4WE10EB3X/CG24N9K4	R900595533	5	10
30	***new***	4WE10EB4X/CW110N9DA	R978910173	5	10

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30	4WE10G3X/CG12N9K4	R900503405	5	10
30	4WE10G3X/CG12N9K4 CSA	R978906366	5	10
30	4WE10G3X/CG24N9K4	R900594277	5	10
30	4WE10G3X/CW110N9K4	R900536428	5	10
30	4WE10G4X/CG12N9DA	R978908592	5	10
30	***new*** 4WE10G4X/CG24N9DAL	R978909405	5	10
30	4WE10G4X/CW110N9DA	R978908695	5	10
30	4WE10G4X/CW110N9DAL	R978908815	5	10
30	***new*** 4WE10GA4X/CW110N9DA	R978910549	5	10
30	***new*** 4WE10GA4X/CW110N9DAL	R978912744	5	10
30	4WE10H3X/CG24N9K4	R900597986	5	10
30	4WE10H3X/CW110N9K4	R900517315	5	10
30	4WE10H4X/CW110N9DA	R978908593	5	10
30	***new*** 4WE10H4X/CW110N9DAL	R978909071	5	10
30	4WE10HA3X/CG24N9K4	R900598662	5	10
30	***new*** 4WE10HA4X/CG12N9DAL	R978007214	5	10
30	4WE10J3X/CG12N9K4	R900930080	5	10
30	4WE10J3X/CG24N9K4	R900589988	5	10
30	4WE10J3X/CG24N9K4/V	R900593677	5	10
30	4WE10J3X/CG24N9K4=CSA	R900957006	5	10
30	4WE10J3X/CW110N9K4	R900592338	5	10
30	4WE10J3X/CW110N9K4=CSA	R900940565	5	10
30	***new*** 4WE10J4X/CG12N9DA	R978910621	5	10
30	***new*** 4WE10J4X/CG24N9DA	R978909072	5	10
30	4WE10J4X/CG24N9DAL	R900732331	5	10
30	4WE10J4X/CG24N9DK25L	R900977484	5	10
30	4WE10J4X/CW110N9DA	R978908568	5	10
30	4WE10J4X/CW110N9DA/V	R978908908	5	10
30	4WE10J4X/CW110N9DAL	R900708880	5	10
30	4WE10J4X/CW110N9DK25L	R900963610	5	10
30	***new*** 4WE10JA4X/CW110N9DAL	R978913850	5	10
30	***new*** 4WE10JB4X/CW110N9DA	R978914148	5	10
30	***new*** 4WE10JB4X/CW110N9DAL	R978909781	5	10
30	***new*** 4WE10M4X/CW110N9DA	R978908808	5	10
30	***new*** 4WE10M4X/CW110N9DAL	R900961858	5	10
30	***new*** 4WE10Y4X/CW110N9DA	R978908880	5	10
30	***new*** 4WE10Y4X/CW110N9DAL	R978909074	5	10
30	***new*** 4WE6C6X/EG12N9DA/62	R978878225	5	10
30	***new*** 4WE6C6X/EG12N9K4	R900903685	5	10
30	***new*** 4WE6C6X/EG12N9K4/62 CSA	R978913831	5	10
30	***new*** 4WE6C6X/EG24N9DA/62	R978878229	5	10
30	***new*** 4WE6C6X/EG24N9DAL/62	R978017853	5	10
30	4WE6C6X/EG24N9K4	R900561272	5	10
30	4WE6C6X/EG24N9K4/62	R978017744	5	10
30	***new*** 4WE6C6X/EG24N9K4/62=CSA	R978017849	5	10
30	***new*** 4WE6C6X/EG24N9K4/A12	R900567535	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	***new*** 4WE6C6X/EG24N9K4/V	R900905548	5	10
30	***new*** 4WE6C6X/EG96N9K4/62	R978017829	5	10
30	4WE6C6X/EW110N9DA/62	R978874587	5	10
30	***new*** 4WE6C6X/EW110N9DA/V/62	R978890314	5	10
30	***new*** 4WE6C6X/EW110N9DAL/62	R978874588	5	10
30	***new*** 4WE6C6X/EW110N9DAL/V	R900900065	5	10
30	4WE6C6X/EW110N9K4	R900901748	5	10
30	***new*** 4WE6C6X/EW110N9K4/62	R978017780	5	10
30	***new*** 4WE6C6X/EW110N9K4/62=CSA	R978017774	5	10
30	***new*** 4WE6C6X/EW110N9K4/V	R900919729	5	10
30	***new*** 4WE6C6X/OFEG12N9DA/62	R978890367	5	10
30	***new*** 4WE6C6X/OFEG12N9K4/62	R978915962	5	10
30	***new*** 4WE6C6X/OFEG24N9DAL/62	R978017773	5	10
30	***new*** 4WE6C6X/OFEG24N9K4	R900564107	5	10
30	***new*** 4WE6C6X/OFEG24N9K4/62	R978017758	5	10
30	***new*** 4WE6C6X/OFEW110N9DA/62	R978875037	5	10
30	***new*** 4WE6C6X/OFEW110N9DAL/62	R978875038	5	10
30	***new*** 4WE6C6X/OFEW110N9K4	R900909140	5	10
30	***new*** 4WE6C6X/OFEW110N9K4/62	R978017798	5	10
30	***new*** 4WE6C6X/OFEW110N9K4/62 CSA	R978898363	5	10
30	***new*** 4WE6D6X/EG12N9DA/62	R978878237	5	10
30	***new*** 4WE6D6X/EG12N9DA/V/62	R978895300	5	10
30	***new*** 4WE6D6X/EG12N9K4	R900913281	5	10
30	4WE6D6X/EG12N9K4/62	R978017812	5	10
30	***new*** 4WE6D6X/EG12N9K4/62 CSA	R978905132	5	10
30	***new*** 4WE6D6X/EG12N9K4/V	R900783170	5	10
30	***new*** 4WE6D6X/EG12N9K4/V/62 CSA	R978917435	5	10
30	4WE6D6X/EG24N9DA/62	R978878241	5	10
30	4WE6D6X/EG24N9DAL	R900550589	5	10
30	***new*** 4WE6D6X/EG24N9DAL/62	R978017732	5	10
30	4WE6D6X/EG24N9DK24L2/62	R978896201	5	10
30	4WE6D6X/EG24N9K4	R900561274	5	10
30	4WE6D6X/EG24N9K4/62	R978017922	5	10
30	***new*** 4WE6D6X/EG24N9K4/62=CSA	R901105197	5	10
30	***new*** 4WE6D6X/EG24N9K4/A12	R900929558	5	10
30	***new*** 4WE6D6X/EG24N9K4/B10	R900915069	5	10
30	***new*** 4WE6D6X/EG24N9K4/B10/62	R901262824	5	10
30	4WE6D6X/EG24N9K4/V	R900564105	5	10
30	***new*** 4WE6D6X/EG24N9K4/V/62 CSA	R978908705	5	10
30	***new*** 4WE6D6X/EG24N9K4=CSA	R900931341	5	10
30	***new*** 4WE6D6X/EG96N9K4	R900904957	5	10
30	***new*** 4WE6D6X/EG96N9K4/62	R978017787	5	10
30	***new*** 4WE6D6X/EG96N9K4/V/62=CSA	R978025630	5	10
30	***new*** 4WE6D6X/EW110N9DA	R978020087	5	10
30	4WE6D6X/EW110N9DA/62	R978874053	5	10
30	***new*** 4WE6D6X/EW110N9DA/V	R978032133	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	4WE6D6X/EW110N9DA/V/62	R978875901	5	10
30	4WE6D6X/EW110N9DAL	R900559677	5	10
30	4WE6D6X/EW110N9DAL/62	R978017739	5	10
30	***new*** 4WE6D6X/EW110N9DAL/B10	R900710108	5	10
30	***new*** 4WE6D6X/EW110N9DAL/B10/62	R978030511	5	10
30	***new*** 4WE6D6X/EW110N9DAL/V	R900578560	5	10
30	***new*** 4WE6D6X/EW110N9DAL/V/62	R978021153	5	10
30	4WE6D6X/EW110N9K4	R900551704	5	10
30	4WE6D6X/EW110N9K4/62	R978017734	5	10
30	4WE6D6X/EW110N9K4/62=CSA	R978017841	5	10
30	***new*** 4WE6D6X/EW110N9K4/B10	R900906820	5	10
30	***new*** 4WE6D6X/EW110N9K4/B10V	R900964575	5	10
30	***new*** 4WE6D6X/EW110N9K4/B12	R900925868	5	10
30	***new*** 4WE6D6X/EW110N9K4/V	R900911653	5	10
30	***new*** 4WE6D6X/EW110N9K4/V/62	R978023806	5	10
30	***new*** 4WE6D6X/EW110N9K4/V/62=CSA	R978019688	5	10
30	***new*** 4WE6D6X/EW110N9K4/V=CSA	R900962492	5	10
30	***new*** 4WE6D6X/OEG24N9K4/62	R978017766	5	10
30	***new*** 4WE6D6X/OEW110N9DA/62	R978874049	5	10
30	***new*** 4WE6D6X/OEW110N9K4/62	R978017838	5	10
30	***new*** 4WE6D6X/OFEG12N9DA/62	R978890292	5	10
30	***new*** 4WE6D6X/OFEG12N9K4	R900924018	5	10
30	***new*** 4WE6D6X/OFEG12N9K4/62	R978017819	5	10
30	***new*** 4WE6D6X/OFEG12N9K4/62 CSA	R978908958	5	10
30	***new*** 4WE6D6X/OFEG12N9K4/B10	R978032032	5	10
30	***new*** 4WE6D6X/OFEG12N9K4/B10/62	R978911678	5	10
30	***new*** 4WE6D6X/OFEG12N9K4/V/62	R978916765	5	10
30	***new*** 4WE6D6X/OFEG24N9DA/62	R978892546	5	10
30	***new*** 4WE6D6X/OFEG24N9DA/V/62	R978892867	5	10
30	***new*** 4WE6D6X/OFEG24N9DAL/62	R978017871	5	10
30	4WE6D6X/OFEG24N9DK24L2/62	R978896205	5	10
30	4WE6D6X/OFEG24N9K4	R900567512	5	10
30	4WE6D6X/OFEG24N9K4/62	R978017763	5	10
30	***new*** 4WE6D6X/OFEG24N9K4/62=CSA	R978017826	5	10
30	***new*** 4WE6D6X/OFEG24N9K4/B08V	R901147438	5	10
30	***new*** 4WE6D6X/OFEG24N9K4/B10	R900568899	5	10
30	4WE6D6X/OFEG24N9K4/V	R900903465	5	10
30	***new*** 4WE6D6X/OFEG96N9K4	R900904958	5	10
30	4WE6D6X/OFEW110N9DA/62	R978873230	5	10
30	***new*** 4WE6D6X/OFEW110N9DA/V/62	R978875810	5	10
30	***new*** 4WE6D6X/OFEW110N9DAL	R900912994	5	10
30	4WE6D6X/OFEW110N9DAL/62	R978017810	5	10
30	***new*** 4WE6D6X/OFEW110N9DAL/B10V	R901183229	5	10
30	***new*** 4WE6D6X/OFEW110N9DAL/V	R900959714	5	10
30	4WE6D6X/OFEW110N9K4	R900552321	5	10
30	4WE6D6X/OFEW110N9K4/62	R978017735	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	***new*** 4WE6D6X/OFEW110N9K4/62=CSA	R978017845	5	10
30	***new*** 4WE6D6X/OFEW110N9K4/B08	R900925207	5	10
30	***new*** 4WE6D6X/OFEW110N9K4/B10	R900949737	5	10
30	***new*** 4WE6D6X/OFEW110N9K4/V	R900921614	5	10
30	***new*** 4WE6D6X/OFEW110N9K4/V/62 CSA	R978907764	5	10
30	***new*** 4WE6E6X/EG110N9K4/V	R900758399	5	10
30	4WE6E6X/EG12N9DA/62	R978878249	5	10
30	4WE6E6X/EG12N9DAL/62	R978878250	5	10
30	***new*** 4WE6E6X/EG12N9K4	R900903906	5	10
30	4WE6E6X/EG12N9K4/62	R978017783	5	10
30	***new*** 4WE6E6X/EG12N9K4/62 CSA	R978905130	5	10
30	***new*** 4WE6E6X/EG12N9K4/A12/62	R978001259	5	10
30	***new*** 4WE6E6X/EG12N9K4/V	R900774335	5	10
30	***new*** 4WE6E6X/EG12N9K4/V/62 CSA	R978911234	5	10
30	4WE6E6X/EG24N9DA/62	R978878253	5	10
30	***new*** 4WE6E6X/EG24N9DA/V/62	R978890211	5	10
30	4WE6E6X/EG24N9DAL	R900979840	5	10
30	4WE6E6X/EG24N9DAL/62	R978017870	5	10
30	***new*** 4WE6E6X/EG24N9DAL/V	R900933968	5	10
30	4WE6E6X/EG24N9K4	R900561278	5	10
30	4WE6E6X/EG24N9K4/62	R978017750	5	10
30	4WE6E6X/EG24N9K4/62=CSA	R901105198	5	10
30	***new*** 4WE6E6X/EG24N9K4/B10V	R900957917	5	10
30	***new*** 4WE6E6X/EG24N9K4/B12	R900931613	5	10
30	4WE6E6X/EG24N9K4/V	R900903464	5	10
30	***new*** 4WE6E6X/EG24N9K4/V/62	R978021268	5	10
30	***new*** 4WE6E6X/EG24N9K4/V/62 CSA	R978916601	5	10
30	***new*** 4WE6E6X/EG96N9K4	R900904959	5	10
30	***new*** 4WE6E6X/EG96N9K4/62	R978017789	5	10
30	4WE6E6X/EW110N9DA/62	R978875049	5	10
30	4WE6E6X/EW110N9DA/V/62	R978877942	5	10
30	***new*** 4WE6E6X/EW110N9DAL	R901001943	5	10
30	4WE6E6X/EW110N9DAL/62	R978873115	5	10
30	***new*** 4WE6E6X/EW110N9DAL/V	R901067547	5	10
30	***new*** 4WE6E6X/EW110N9DAL/V/62	R978875745	5	10
30	4WE6E6X/EW110N9K4	R900558641	5	10
30	4WE6E6X/EW110N9K4/62	R978017737	5	10
30	***new*** 4WE6E6X/EW110N9K4/62=CSA	R978017842	5	10
30	***new*** 4WE6E6X/EW110N9K4/B12/62	R978912723	5	10
30	***new*** 4WE6E6X/EW110N9K4/V	R900931049	5	10
30	***new*** 4WE6E6X/EW110N9K4/V/62	R978025719	5	10
30	***new*** 4WE6E6X/EW110N9K4/V/62=CSA	R978019230	5	10
30	***new*** 4WE6E6X/EW110N9K4=CSA	R900940567	5	10
30	***new*** 4WE6E6X/EW110NK4/V/62 CSA	R978010949	5	10
30	***new*** 4WE6EA6X/EG12N9K4	R900928531	5	10
30	***new*** 4WE6EA6X/EG12N9K4/62	R978024420	5	10

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GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	***new*** 4WE6EA6X/EG24N9DAL	R900964681	5	10
30	***new*** 4WE6EA6X/EG24N9K4	R900561280	5	10
30	4WE6EA6X/EG24N9K4/62	R978017752	5	10
30	***new*** 4WE6EA6X/EG96N9K4/62=CSA	R978034580	5	10
30	***new*** 4WE6EA6X/EW110N9DA/V/62	R978891959	5	10
30	***new*** 4WE6EA6X/EW110N9DAL/62	R978875042	5	10
30	***new*** 4WE6EA6X/EW110N9DAL/V/62	R978879878	5	10
30	***new*** 4WE6EA6X/EW110N9K4	R900906670	5	10
30	***new*** 4WE6EA6X/EW110N9K4/62	R978017796	5	10
30	***new*** 4WE6EA6X/EW110N9K4/62=CSA	R978019231	5	10
30	***new*** 4WE6EA6X/OFEW110N9DA	R978032138	5	10
30	***new*** 4WE6EB6X/EG12N9K4	R900921992	5	10
30	***new*** 4WE6EB6X/EG12N9K4/62 CSA	R978914474	5	10
30	***new*** 4WE6EB6X/EG24N9K4	R900561281	5	10
30	4WE6EB6X/EG24N9K4/62	R978024421	5	10
30	***new*** 4WE6EB6X/EW110N9DA/62	R978875045	5	10
30	***new*** 4WE6EB6X/EW110N9K4	R900906671	5	10
30	4WE6EB6X/EW110N9K4/62	R978024422	5	10
30	***new*** 4WE6EB6X/EW110N9K4/V/62	R978912396	5	10
30	***new*** 4WE6EB6X/OFEW110N9K4	R901242185	5	10
30	***new*** 4WE6F6X/EG24N9K4	R900933648	5	10
30	***new*** 4WE6F6X/EG24N9K4/62	R978030173	5	10
30	***new*** 4WE6F6X/EG24N9K4/V/62=CSA	R901318705	5	10
30	***new*** 4WE6F6X/EW110N9DA/62	R978891103	5	10
30	***new*** 4WE6F6X/EW110N9K4	R900908714	5	10
30	***new*** 4WE6F6X/EW110N9K4/62=CSA	R901327984	5	10
30	4WE6G6X/EG12N9DA/62	R978878257	5	10
30	4WE6G6X/EG12N9DAL/62	R978017779	5	10
30	***new*** 4WE6G6X/EG12N9K4	R900567497	5	10
30	4WE6G6X/EG12N9K4/62	R978017762	5	10
30	***new*** 4WE6G6X/EG12N9K4/62 CSA	R978908129	5	10
30	***new*** 4WE6G6X/EG12N9K4/A12/62	R978916692	5	10
30	4WE6G6X/EG24N9DA/62	R978878261	5	10
30	4WE6G6X/EG24N9K4	R900561282	5	10
30	4WE6G6X/EG24N9K4/62	R901224429	5	10
30	***new*** 4WE6G6X/EG24N9K4/62 CSA	R978906689	5	10
30	4WE6G6X/EG24N9K4/V	R900552009	5	10
30	4WE6G6X/EW110N9DA/62	R978872815	5	10
30	4WE6G6X/EW110N9DA/V/62	R978877999	5	10
30	***new*** 4WE6G6X/EW110N9DAL/62	R978875060	5	10
30	***new*** 4WE6G6X/EW110N9DAL/V/62	R978894256	5	10
30	4WE6G6X/EW110N9K4	R900558642	5	10
30	4WE6G6X/EW110N9K4/62	R978017738	5	10
30	***new*** 4WE6G6X/EW110N9K4/62=CSA	R978017852	5	10
30	***new*** 4WE6G6X/EW110N9K4/V/62	R978912932	5	10
30	***new*** 4WE6GA6X/EG125N9K4/62 CSA	R978908959	5	10

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GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	***new*** 4WE6GA6X/EG12N9DA/62	R978894725	5	10
30	***new*** 4WE6GA6X/EG12N9DA/V/62	R978900420	5	10
30	***new*** 4WE6GA6X/EG12N9K4	R900923844	5	10
30	***new*** 4WE6GA6X/EG24N9DA/62	R978909420	5	10
30	***new*** 4WE6GA6X/EG24N9DAL/62	R978903747	5	10
30	4WE6GA6X/EG24N9K4	R900561284	5	10
30	4WE6GA6X/EG24N9K4/62	R978024424	5	10
30	***new*** 4WE6GA6X/EG24N9K4/V	R900939610	5	10
30	***new*** 4WE6GA6X/EG24N9K4/V/62	R901298103	5	10
30	***new*** 4WE6GA6X/EG24N9K4/V/62 CSA	R978009134	5	10
30	***new*** 4WE6GA6X/EW110N9DA/62	R978875052	5	10
30	***new*** 4WE6GA6X/EW110N9DAL/62	R978875053	5	10
30	***new*** 4WE6GA6X/EW110N9K4	R900909139	5	10
30	***new*** 4WE6GA6X/EW110N9K4/62	R978018469	5	10
30	***new*** 4WE6GA6X/EW110N9K4/62 CSA	R978908357	5	10
30	***new*** 4WE6GB6X/EG24N9K4/62 CSA	R978914690	5	10
30	***new*** 4WE6GB6X/EG24N9K4/V	R900929635	5	10
30	***new*** 4WE6GB6X/EW110N9K4	R900906930	5	10
30	***new*** 4WE6GB6X/EW110N9K4/62 CSA	R978911236	5	10
30	4WE6H6X/EG12N9DA/62	R978878265	5	10
30	***new*** 4WE6H6X/EG12N9DA/V/62	R978890853	5	10
30	***new*** 4WE6H6X/EG12N9DAL/62	R978878266	5	10
30	***new*** 4WE6H6X/EG12N9K4	R900903900	5	10
30	***new*** 4WE6H6X/EG12N9K4/62	R978017782	5	10
30	***new*** 4WE6H6X/EG12N9K4/62 CSA	R978907962	5	10
30	***new*** 4WE6H6X/EG24N9DA/V/62	R978899193	5	10
30	***new*** 4WE6H6X/EG24N9DAL	R900910276	5	10
30	4WE6H6X/EG24N9K4	R900561286	5	10
30	4WE6H6X/EG24N9K4/62	R978017754	5	10
30	***new*** 4WE6H6X/EG24N9K4/62=CSA	R978017828	5	10
30	***new*** 4WE6H6X/EG24N9K4/V	R900929366	5	10
30	4WE6H6X/EW110N9DA/62	R978875071	5	10
30	***new*** 4WE6H6X/EW110N9DA/V/62	R978890842	5	10
30	4WE6H6X/EW110N9DAL/62	R978875072	5	10
30	***new*** 4WE6H6X/EW110N9K4	R900906672	5	10
30	4WE6H6X/EW110N9K4/62	R978017797	5	10
30	***new*** 4WE6H6X/EW110N9K4/62 CSA	R978905734	5	10
30	***new*** 4WE6H6X/EW110N9K4/V	R900704185	5	10
30	***new*** 4WE6HA6X/EG12N9K4	R900903992	5	10
30	***new*** 4WE6HA6X/EG12N9K4/62 CSA	R978912645	5	10
30	4WE6HA6X/EG24N9K4	R900549534	5	10
30	***new*** 4WE6HA6X/EG24N9K4/62	R978022019	5	10
30	***new*** 4WE6HA6X/EG24N9K4/62=CSA	R978024230	5	10
30	***new*** 4WE6HA6X/EG24N9K4/B10/62	R978918850	5	10
30	***new*** 4WE6HA6X/EG24N9K4/V	R900554556	5	10
30	***new*** 4WE6HA6X/EW110N9DA/62	R978875063	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	***new*** 4WE6HA6X/EW110N9DAL/V/62	R978893575	5	10
30	***new*** 4WE6HA6X/EW110N9K4	R900906460	5	10
30	***new*** 4WE6HA6X/EW110N9K4/B10	R978031520	5	10
30	***new*** 4WE6HA6X/EW110N9K4=CSA	R900916446	5	10
30	***new*** 4WE6HB6X/EG24N9DA/62	R978893179	5	10
30	4WE6HB6X/EG24N9K4	R900553670	5	10
30	***new*** 4WE6HB6X/EG24N9K4/A12/62	R978911060	5	10
30	***new*** 4WE6HB6X/EG24N9K4/V	R900729410	5	10
30	***new*** 4WE6HB6X/EW110N9K4	R900909144	5	10
30	***new*** 4WE6J6X/EG110N9DA/62	R978892973	5	10
30	***new*** 4WE6J6X/EG12N9DA	R978020086	5	10
30	4WE6J6X/EG12N9DA/62	R978878274	5	10
30	4WE6J6X/EG12N9DAL/62	R978878275	5	10
30	4WE6J6X/EG12N9K4	R900567496	5	10
30	4WE6J6X/EG12N9K4/62	R978017761	5	10
30	***new*** 4WE6J6X/EG12N9K4/62 CSA	R978905419	5	10
30	***new*** 4WE6J6X/EG12N9K4/B10	R900935677	5	10
30	***new*** 4WE6J6X/EG12N9K4/B12/62/V	R978031709	5	10
30	***new*** 4WE6J6X/EG12N9K4K/62	R901246196	5	10
30	***new*** 4WE6J6X/EG24N9DA	R978020085	5	10
30	4WE6J6X/EG24N9DA/62	R978878278	5	10
30	4WE6J6X/EG24N9DAL	R900920381	5	10
30	***new*** 4WE6J6X/EG24N9DAL/62	R978017815	5	10
30	***new*** 4WE6J6X/EG24N9DAL/B10	R900979944	5	10
30	***new*** 4WE6J6X/EG24N9DAL/N12/62	R978896729	5	10
30	4WE6J6X/EG24N9DK24L2/62	R978896206	5	10
30	4WE6J6X/EG24N9DK25L/62	R978017767	5	10
30	4WE6J6X/EG24N9K4	R900561288	5	10
30	4WE6J6X/EG24N9K4/62	R978017756	5	10
30	4WE6J6X/EG24N9K4/62=CSA	R901105200	5	10
30	***new*** 4WE6J6X/EG24N9K4/A12	R900567271	5	10
30	***new*** 4WE6J6X/EG24N9K4/B10	R900548271	5	10
30	***new*** 4WE6J6X/EG24N9K4/B10=CSA	R900957815	5	10
30	4WE6J6X/EG24N9K4/V	R900548772	5	10
30	***new*** 4WE6J6X/EG24N9K4/V/62	R978024425	5	10
30	***new*** 4WE6J6X/EG96N4K4=CSA	R901028055	5	10
30	***new*** 4WE6J6X/EG96N9K4	R900909593	5	10
30	***new*** 4WE6J6X/EG96N9K4/62	R978017802	5	10
30	***new*** 4WE6J6X/EG96N9K4/V	R900949273	5	10
30	***new*** 4WE6J6X/EW110N9DA	R978019413	5	10
30	4WE6J6X/EW110N9DA/62	R978874065	5	10
30	***new*** 4WE6J6X/EW110N9DA/V	R978018772	5	10
30	***new*** 4WE6J6X/EW110N9DA/V/62	R978875805	5	10
30	4WE6J6X/EW110N9DAL	R900553481	5	10
30	4WE6J6X/EW110N9DAL/62	R978017736	5	10
30	***new*** 4WE6J6X/EW110N9DAL/B10	R900902946	5	10

1) *"Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).*

GoTo Focused Delivery Program: Part Numbers

Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	*new*	4WE6J6X/EW110N9DAL/N12V/62	R978878845	5	10
30	*new*	4WE6J6X/EW110N9DAL/V	R900578218	5	10
30	*new*	4WE6J6X/EW110N9DAL/V/62	R978021922	5	10
30		4WE6J6X/EW110N9DK25L/62	R978017785	5	10
30		4WE6J6X/EW110N9K4	R900551703	5	10
30		4WE6J6X/EW110N9K4/62	R978017733	5	10
30	*new*	4WE6J6X/EW110N9K4/62=CSA	R978017813	5	10
30	*new*	4WE6J6X/EW110N9K4/B08	R900908786	5	10
30	*new*	4WE6J6X/EW110N9K4/B10	R900912188	5	10
30	*new*	4WE6J6X/EW110N9K4/B10/62	R978021624	5	10
30	*new*	4WE6J6X/EW110N9K4/B10=CSA	R900956829	5	10
30	*new*	4WE6J6X/EW110N9K4/B10N10/62	R978908790	5	10
30	*new*	4WE6J6X/EW110N9K4/B10V	R900946083	5	10
30	*new*	4WE6J6X/EW110N9K4/N12/62	R978910843	5	10
30	*new*	4WE6J6X/EW110N9K4/V	R900910785	5	10
30	*new*	4WE6J6X/EW110N9K4/V/62	R978024426	5	10
30	*new*	4WE6J6X/EW110N9K4/V=CSA	R900962493	5	10
30	*new*	4WE6J6X/EW110N9K4=CSA	R900916703	5	10
30	*new*	4WE6JA6X/EG12N9K4	R900923495	5	10
30	*new*	4WE6JA6X/EG12N9K4/A12/62	R978910767	5	10
30	*new*	4WE6JA6X/EG24N9K4	R900561290	5	10
30		4WE6JA6X/EG24N9K4/62	R978017757	5	10
30	*new*	4WE6JA6X/EG24N9K4/V	R900554557	5	10
30	*new*	4WE6JA6X/EG24N9K4=CSA	R900957299	5	10
30	*new*	4WE6JA6X/EW110N9DA/62	R978874057	5	10
30	*new*	4WE6JA6X/EW110N9DAL/62	R978874058	5	10
30	*new*	4WE6JA6X/EW110N9DAL/V	R900964300	5	10
30	*new*	4WE6JA6X/EW110N9K4	R900905452	5	10
30	*new*	4WE6JA6X/EW110N9K4/62	R978024428	5	10
30	*new*	4WE6JA6X/EW110N9K4/B10V	R901111218	5	10
30	*new*	4WE6JA6X/EW110N9K4/V	R900918061	5	10
30	*new*	4WE6JB6X/EG24N9DA/62	R978892258	5	10
30	*new*	4WE6JB6X/EG24N9K4	R900561291	5	10
30	*new*	4WE6JB6X/EG24N9K4/62	R978024429	5	10
30	*new*	4WE6JB6X/EG24N9K4/V	R900932917	5	10
30		4WE6JB6X/EW110N9DA/62	R978874061	5	10
30	*new*	4WE6JB6X/EW110N9DAL	R978018512	5	10
30	*new*	4WE6JB6X/EW110N9K4	R900906202	5	10
30	*new*	4WE6JB6X/EW110N9K4/62	R978024431	5	10
30	*new*	4WE6L6X/EG24N9DAL/62	R978898130	5	10
30	*new*	4WE6L6X/EG24N9K4	R900901751	5	10
30	*new*	4WE6L6X/EG24N9K4/62	R978024432	5	10
30	*new*	4WE6L6X/EW110N9DAL/62	R978891157	5	10
30	*new*	4WE6L6X/EW110N9K4	R900906462	5	10
30	*new*	4WE6LA6X/EG12N9K4/A12/62	R978933518	5	10
30	*new*	4WE6LA6X/EW110N9K4	R900919093	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30	***new*** 4WE6LB6X/EG24N9K4=AN	R900763384	5	10
30	***new*** 4WE6M6X/EG24N9DAL	R900765945	5	10
30	***new*** 4WE6M6X/EG24N9K4	R900577475	5	10
30	***new*** 4WE6M6X/EG24N9K4/62	R978017771	5	10
30	***new*** 4WE6M6X/EG24N9K4/62 CSA	R978909824	5	10
30	***new*** 4WE6M6X/EW110N9DA/62	R978878850	5	10
30	***new*** 4WE6M6X/EW110N9DAL/62	R978879585	5	10
30	***new*** 4WE6M6X/EW110N9K4	R900904559	5	10
30	***new*** 4WE6M6X/EW110N9K4/62=CSA	R978017843	5	10
30	***new*** 4WE6M6X/EW110N9K4/V	R900923360	5	10
30	***new*** 4WE6M6X/EW110N9K4/V/62=CSA	R901328365	5	10
30	***new*** 4WE6M6X/EW110N9K4=CSA	R900940568	5	10
30	***new*** 4WE6MA6X/EG24N9K4	R900546939	5	10
30	***new*** 4WE6MA6X/EG24N9K4/62	R978025541	5	10
30	***new*** 4WE6MA6X/EW110N9DAL/V/62	R978909633	5	10
30	***new*** 4WE6MA6X/EW110N9K4	R900959972	5	10
30	***new*** 4WE6MB6X/EG24N9K4	R900577367	5	10
30	***new*** 4WE6U6X/EG24N9K4/V/62=CSA	R978035381	5	10
30	4WE6W6X/EG12N9K4/62	R978898240	5	10
30	4WE6W6X/EG24N9K4	R900568233	5	10
30	4WE6W6X/EG24N9K4/62	R978017764	5	10
30	***new*** 4WE6W6X/EG24N9K4/62=CSA	R978017868	5	10
30	***new*** 4WE6W6X/EW110N9DAL/62	R978892081	5	10
30	***new*** 4WE6Y6X/EG12N9DA/62	R978878282	5	10
30	***new*** 4WE6Y6X/EG12N9K4	R900942273	5	10
30	***new*** 4WE6Y6X/EG12N9K4/62 CSA	R978905637	5	10
30	***new*** 4WE6Y6X/EG12N9K4/V	R901008606	5	10
30	***new*** 4WE6Y6X/EG12N9K4/V/62=CSA	R978020055	5	10
30	***new*** 4WE6Y6X/EG24N9DA/62	R978878286	5	10
30	***new*** 4WE6Y6X/EG24N9DAL	R900935501	5	10
30	4WE6Y6X/EG24N9K4	R900561276	5	10
30	4WE6Y6X/EG24N9K4/62	R978017748	5	10
30	***new*** 4WE6Y6X/EG24N9K4/62=CSA	R978017823	5	10
30	***new*** 4WE6Y6X/EG24N9K4/B12	R900908877	5	10
30	***new*** 4WE6Y6X/EG24N9K4/V	R900909636	5	10
30	***new*** 4WE6Y6X/EG24N9K4/V/62	R901274620	5	10
30	***new*** 4WE6Y6X/EG24N9K4/V/62 CSA	R978902121	5	10
30	***new*** 4WE6Y6X/EG24N9K4=CSA	R900929714	5	10
30	***new*** 4WE6Y6X/EG96N9K4	R900909273	5	10
30	***new*** 4WE6Y6X/EG96N9K4/62	R978017800	5	10
30	***new*** 4WE6Y6X/EW110N9DA	R978032040	5	10
30	***new*** 4WE6Y6X/EW110N9DA/62	R978874546	5	10
30	***new*** 4WE6Y6X/EW110N9DA/V/62	R978891254	5	10
30	***new*** 4WE6Y6X/EW110N9DAL	R900962944	5	10
30	***new*** 4WE6Y6X/EW110N9DAL/62	R978017864	5	10
30	***new*** 4WE6Y6X/EW110N9DAL/V/62	R978878937	5	10
30	***new*** 4WE6Y6X/EW110N9K4	R900905896	5	10

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Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
30		4WE6Y6X/EW110N9K4/62	R978017791	5	10
30	*new*	4WE6Y6X/EW110N9K4/62=CSA	R978017846	5	10
30	*new*	4WE6Y6X/EW110N9K4/V	R900910847	5	10
30	*new*	4WE6Y6X/EW110N9K4/V/62 CSA	R978901065	5	10
30	*new*	4WE6Y6X/EW110N9K4=CSA	R900942177	5	10
		4WEH – Directional Spool Valve			
31		4WEH10J4X/6EG24N9ETK4/B10	R900948924	5	10
31		4WEH10J4X/6EW110N9ETK4/B10	R900717396	5	10
31	*new*	4WEH16D7X/6EW110N9ETK4/B10	R900965804	5	10
31	*new*	4WEH16E7X/6EG24N9EK4/B10	R900978983	5	10
31	*new*	4WEH16E7X/6EG24N9ETDAL/B10	R901236007	5	10
31		4WEH16E7X/6EG24N9ETK4/B10	R900923971	5	10
31	*new*	4WEH16E7X/6EG24N9TK4/B10	R900933564	5	10
31	*new*	4WEH16E7X/6EW110N9EDAL/B10	R901225031	5	10
31		4WEH16E7X/6EW110N9ETDAL/B10	R901225039	5	10
31	*new*	4WEH16EA7X/6EW110N9ETK4/B10	R900705278	5	10
31	*new*	4WEH16EB7X/6EG24N9TK4	R900931973	5	10
31		4WEH16J7X/6EG24N9ETK4/B10	R900930431	5	10
31		4WEH16J7X/6EG24N9K4	R900925580	5	10
31	*new*	4WEH16J7X/6EG24N9TK4	R900927255	5	10
31	*new*	4WEH16J7X/6EW110N9EK4/B10	R900959609	5	10
31		4WEH16J7X/6EW110N9ETK4/B10	R900939187	5	10
31	*new*	4WEH16JB7X/6EW110N9EK4/B10	R901025600	5	10
31	*new*	4WEH22D7X/6EW110N9DA	R978899831	5	10
31		4WEH22D7X/6EW110N9EDAL/B10	R978913434	5	10
31		4WEH22D7X/6EW110N9ETDAL/B10	R978891600	5	10
31	*new*	4WEH22D7X/6EW110N9K4	R900935725	5	10
31	*new*	4WEH22D7X/OF6EW110N9K4/B10	R978010140	5	10
31		4WEH22E7X/6EG24N9EK4/B10	R900932659	5	10
31	*new*	4WEH22E7X/6EW110N9DA	R978892640	5	10
31		4WEH22E7X/6EW110N9EDAL/B10	R901225767	5	10
31		4WEH22E7X/6EW110N9ETDA/B10	R901225778	5	10
31		4WEH22E7X/6EW110N9ETDAL/B10	R901205276	5	10
31		4WEH22E7X/6EW110N9ETK4/B10	R901211089	5	10
31	*new*	4WEH22E7X/6EW110N9K4	R900911063	5	10
31	*new*	4WEH22E7X/6EW110N9TDA	R978907992	5	10
31	*new*	4WEH22G7X/6EG24N9K4	R978002840	5	10
31	*new*	4WEH22G7X/6EW110N9DA	R978892609	5	10
31	*new*	4WEH22G7X/6EW110N9K4	R900939327	5	10
31		4WEH22H7X/6EG12N9TK4	R978910815	5	10
31		4WEH22J7X/6EG24N9EK4/B10	R900977313	5	10
31		4WEH22J7X/6EG24N9ETK4/B10	R900932049	5	10
31	*new*	4WEH22J7X/6EW110N9DA	R978896846	5	10
31	*new*	4WEH22J7X/6EW110N9EK4/B10	R900939179	5	10
31	*new*	4WEH22J7X/6EW110N9K4	R900912919	5	10
		Z4WEH-Directional Shut-Off Valves			
32		Z4WEH10E63-4X/6EG24NETK4/B10	R900977314	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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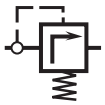
Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
	 **Pressure Control Valves**			
	DBD-Pressure Relief Valves			
33	DBDH 10 K1X/100	R900423891	5	10
33	DBDH 10 K1X/200	R900424190	5	10
33	DBDH 6 G1X/200/12	R900345310	5	10
33	DBDH 6 G1X/315/12	R900458278	5	10
33	DBDH 6 G1X/400/12	R900385305	5	10
33	DBDH 6 K1X/100	R900424199	5	10
33	DBDH 6 K1X/200	R900424200	5	10
33	DBDS 10 G1X/200/12	R900341591	5	10
33	DBDS 10 G1X/315/12	R900377746	5	10
33	DBDS 10 K1X/200	R900424149	5	10
33	DBDS 10 K1X/25	R900420276	5	10
33	DBDS 10 K1X/315	R900424150	5	10
33	DBDS 10 K1X/315V	R900424151	5	10
33	DBDS 20 K1X/200	R900424269	5	10
33	DBDS 20 K1X/315	R900424271	5	10
33	DBDS 20 K1X/400	R900424203	5	10
33	DBDS 30 K1X/200	R900424286	5	10
33	DBDS 30 K1X/315	R900424288	5	10
33	DBDS 6 G1X/200/12	R900341066	5	10
33	DBDS 6 G1X/315/12	R900352672	5	10
33	DBDS 6 K1X/100	R900423723	5	10
33	DBDS 6 K1X/200	R900423724	5	10
33	DBDS 6 K1X/315	R900423725	5	10
33	DBDS 6 K1X/315V	R900428388	5	10
33	DBDS 6 K1X/400	R900423726	5	10
	DZT-Pressure Relief Valves			
34	DZT-XA2-1X/160	0811104126	3	10
	ZDB(K) & Z2DB-Pressure Relief Valves			
35	Z2DB 10 VD2-4X/200V	R900411358	5	10
35	Z2DB 6 VC2-4X/200V	R900411312	5	10
35	Z2DB 6 VC2-4X/315V	R900411318	5	10
35	Z2DB 6 VD2-4X/200V	R900411314	5	10
35	ZDB 10 VA2-4X/200V	R900422189	5	10
35	ZDB 6 VA2-4X/200V	R900409886	5	10
35	ZDB 6 VB2-4X/100V	R900409936	5	10
35	ZDB 6 VB2-4X/200V	R900409854	5	10
35	ZDB 6 VB2-4X/315V	R900409896	5	10
35	ZDB 6 VP2-4X/315V	R900409898	5	10
35	ZDBK 6 VP2-1X/210V	R900564564	5	10
	DB & DBW-Pressure Relief Valves			
36	DB 10-2-5X/200/12	R900535928	3	10
36	DB 20-2-5X/315/12	R900511690	3	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
36	DB 30-2-5X/315/12	R900558107	3	10
36	DBW 10 A2-5X/200Y6EW110N9K4/12	R978030501	3	10
36	DBW10A2-5X/200-6EG24N9K4/12	R978912159	3	10
36	DBW20A2-5X/200-6EG24N9K4/12	R978010494	3	10
36	DBW20A2-5X/200-6EW110N9K4/12	R978910390	3	10
	DR-Pressure Reducing Valve			
37	DR 6 DP2-5X/150YM/12	R900479792	5	10
	ZDR-Pressure Reducing Valve			
38	ZDR 10 DP2-5X/150YM	R900410880	5	10
38	ZDR 10 DP2-5X/150YM/12	R900582108	5	10
38	ZDR 10 DP2-5X/210YM/12	R900582564	5	10
38	ZDR 10 DP2-5X/75YM/12	R900513528	5	10
38	ZDR 10 VP5-3X/200YM/12	R900512452	5	10
38	ZDR 6 DA2-4X/150Y	R900410849	5	10
38	ZDR 6 DA2-4X/150Y/12	R900427723	5	10
38	ZDR 6 DA2-4X/75Y	R900410813	5	10
38	ZDR 6 DA2-4X/75Y/12	R900430193	5	10
38	ZDR 6 DP2-4X/150YM	R900483787	5	10
38	ZDR 6 DP2-4X/150YM/12	R900404754	5	10
38	ZDR 6 DP2-4X/210YM	R900483788	5	10
38	ZDR 6 DP2-4X/210YM/12	R900433350	5	10
38	ZDR 6 DP2-4X/25YM/12	R900404346	5	10
38	ZDR 6 DP2-4X/75YM	R900483786	5	10
38	ZDR 6 DP2-4X/75YM/12	R900401216	5	10
	ZDRK-Pressure Reducing Valve			
39	ZDRK 6 VP5-1X/100YMV/12	R900700999	5	10
39	ZDRK 6 VP5-1X/210YMV/12	R900566912	5	10
39	ZDRK 6 VP5-1X/50YMV/12	R900700998	5	10
	Flow Control Valves			
	Throttle Valves			
40	MG 10 G1X/V	R900422145	5	10
	Double Throttle Check Valves			
41	Z2FS 10-3-3X/V	R900523737	5	10
41	Z2FS 10-5-3X/V	R900517812	5	10
41	Z2FS 16-8-3X/S	R900459203	5	10
41	Z2FS 16-8-3X/S2	R900457256	5	10
41	Z2FS 16-8-3X/S2V	R900473688	5	10
41	Z2FS 16-8-3X/SV	R900470529	5	10
41	Z2FS 22-3X/SV	R900474580	5	10
41	Z2FS 22-8-3X/S2	R900443176	5	10
41	Z2FS 22-8-3X/S2V	R900468786	5	10
41	Z2FS 6-2-4X/1Q	R900481621	5	10
41	Z2FS 6-2-4X/1QV	R900481623	5	10
41	Z2FS 6-2-4X/2QV	R900481624	5	10
41	Z2FS 6-2-4X/2QV/60	R900727967	5	10

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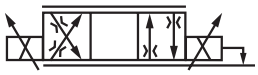
41	Z2FSK 10-2-1X/2QV	R900564522	5	10
41	Z2FSK 6-2-1X/2QV	R900564521	5	10
	2-Way Flow Control Valves			
42	2FRM 10-3X/10L	R900424887	5	10
42	2FRM 10-3X/25L	R900423255	5	10
42	2FRM 10-3X/50L	R900420286	5	10
42	2FRM 10-3X/50LB	R900423261	5	10
42	2FRM 16-3X/100L	R900424905	5	10
42	2FRM 6 B36-3X/1.5QRV	R900205507	5	10
42	2FRM 6 B36-3X/16QMV	R900205510	5	10
42	2FRM 6 B36-3X/16QRV	R900205511	5	10
42	2FRM 6 B36-3X/25QRV	R900205513	5	10
42	2FRM 6 B36-3X/3QRV	R900205517	5	10
42	2FRM 6 B36-3X/6QRV	R900205519	5	10
	 **Proportional Valves**			
	4WRP & 4WRPE-Proportional Directional Valves			
43	4WRP 10 EA63S-1X/G24Z4/M	0811403001	5	10
43	4WRPE 10 E50SJ-2X/G24K0/A1M	0811404770	5	10
43	4WRPE 10 E80SJ-2X/G24K0/A1M	0811404771	5	10
43	4WRPE 10 EA80SJ-2X/G24K0/A1M	0811404750	5	10
43	4WRPE 10 V80M-2X/G24K0/A1M-837	0811404552	5	10
43	4WRPE 10 W80SJ-2X/G24K0/A1M	0811404773	5	10
43	4WRPE 6 E18SJ-2X/G24K0/A1M	0811404140	5	10
43	4WRPE 6 E32SJ-2X/G24K0/A1M	0811404141	5	10
	4WRPH & 4WRPEH-High Response Directional Valve			
44	4WRPEH 10 C3 B100L-2X/G24K0/A1M	0811404801	5	10
44	4WRPEH 10 C3 B50L-2X/G24K0/A1M	0811404800	5	10
44	4WRPEH 10 C4 B100L-2X/G24K0/A1M	0811404803	5	10
44	4WRPEH 6 C B40L-2X/G24K0/F1M	0811404640	5	10
44	4WRPEH 6 C3 B04L-2X/G24K0/A1M	0811404600	5	10
44	4WRPEH 6 C3 B04P-2X/G24K0/A1M	0811404605	5	10
44	4WRPEH 6 C3 B12L-2X/G24K0/A1M	0811404601	5	10
44	4WRPEH 6 C3 B15P-2X/G24K0/A1M	0811404642	5	10
44	4WRPEH 6 C3 B24L-2X/G24K0/A1M	0811404602	5	10
44	4WRPEH 6 C3 B40L-2X/G24K0/A1M	0811404603	5	10
44	4WRPEH 6 C3 B40L-2X/G24K0/F1M	0811404634	5	10
44	4WRPEH 6 C4 B12L-2X/G24K0/A1M	0811404611	5	10
44	4WRPEH 6 C4 B24L-2X/G24K0/A1M	0811404612	5	10
44	4WRPEH 6 C4 B40L-2X/G24K0/A1M	0811404613	5	10
44	4WRPH 10 C4 B100L-2X/G24Z4/M	0811404061	5	10
44	4WRPH 6 C3 B12L-2X/G24Z4/M	0811404034	5	10
44	4WRPH 6 C3 B15P-2X/G24Z4/M	0811404047	5	10
44	4WRPH 6 C3 B24L-2X/G24Z4/M	0811404035	5	10
44	4WRPH 6 C3 B40L-2X/G24Z4/M	0811404036	5	10
44	4WRPH 6 C4 B40L-2X/G24Z4/M	0811404039	5	10

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Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
		4WRA & 4WRAE-Proportional Directional Valves			
45		4WRA 10 E60-2X/G24N9K4/V	R900902097	5	10
45		4WRA 10 W60-2X/G24N9K4/V	R900907650	5	10
45		4WRAE 10 E60-2X/G24N9K31/A1V	R900558356	5	10
45		4WRAE 10 W60-2X/G24N9K31/A1V	R900900988	5	10
45		4WRAE 6 W30-2X/G24N9K31/A1V	R900900987	5	10
		4WRA(E)B-Proportional Directional Control Valves			
46	***new***	4WRAB6E03-1X/G12N9K4/MR	R978916804	5	10
46		4WRAB6E06-1X/G12N9K4/MR	R978910358	5	10
46	***new***	4WRAB6E12-1X/G12N9K4/MR	R978879705	5	10
46		4WRAB6E25-1X/G12N9K4/MR	R978898190	5	10
46		4WRAB6E25-1X/G24N9K4/MR	R978879339	5	10
46	***new***	4WRAB6EA12-1X/G12N9K4/MR	R978911432	5	10
46	***new***	4WRAB6W03-1X/G12N9K4/MR	R978911679	5	10
46	***new***	4WRAB6W12-1X/G12N9DA/MR	R978908145	5	10
46		4WRAB6W25-1X/G12N9K4/MR	R978877472	5	10
46		4WRAEB6E12-1X/G24N9DK26/MR	R978879310	5	10
46		4WRAEB6E25-1X/G24N9DK26/MR	R978878558	5	10
46	***new***	4WRAEB6EA25-1X/G24N9DK26/MR	R978890224	5	10
46		4WRAEB6W25-1X/G24N9DK26/MR	R978878559	5	10
46	***new***	4WRAEB6WA25-1X/G24N9DK26/MR	R978879793	5	10
		4WREE-Proportional Directional Valves			
47		4WREE 10 E1-75-2X/G24K31/A1V	R900927232	5	10
47		4WREE 10 E50-2X/G24K31/A1V	R900927231	5	10
47		4WREE 10 E75-2X/G24K31/A1V	R900927230	5	10
47		4WREE 10 V50-2X/G24K31/A1V	R900927235	5	10
47		4WREE 10 V75-2X/G24K31/A1V	R900924607	5	10
47		4WREE 10 W50-2X/G24K31/A1V	R900931371	5	10
47		4WREE 10 W75-2X/G24K31/A1V	R900927233	5	10
47		4WREE 6 E08-2X/G24K31/A1V	R900912156	5	10
47		4WREE 6 E16-2X/G24K31/A1V	R900920567	5	10
47		4WREE 6 E32-2X/G24K31/A1V	R900907114	5	10
47		4WREE 6 E32-2X/G24K31/F1V	R900925733	5	10
47		4WREE 6 EA16-2X/G24K31/A1V	R900913433	5	10
47		4WREE 6 V08-2X/G24K31/A1V	R900909367	5	10
47		4WREE 6 V1-16-2X/G24K31/A1V	R900931195	5	10
47		4WREE 6 V16-2X/G24K31/A1V	R900907440	5	10
47		4WREE 6 V32-2X/G24K31/A1V	R900911681	5	10
47		4WREE 6 W16-2X/G24K31/A1V	R900925657	5	10
47		4WREE 6 W32-2X/G24K31/A1V	R900911004	5	10
		4WRVE-High Response Directional Valves			
48		4WRVE 16 V200M-2X/G24K0/B5M	0811404291	3	10
		4WRLE-High Response Directional Valves			
49		4WRLE 10 E80SJ-3X/G24ETK0/A1M	0811404713	3	10
49		4WRLE 10 V55L-3X/G24ETK0/A1M	R901125218	5	10
49		4WRLE 10 V55M-3X/G24ETK0/A1M	0811404661	3	10

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49	4WRLE 10 V85L-3X/G24ETK0/A1M	R901125217	5	10
49	4WRLE 10 V85M-3X/G24ETK0/A1M	0811404662	3	10
49	4WRLE 10 W80SJ-3X/G24ETK0/A1M	0811404707	3	10
49	4WRLE 16 EZ180SJ-3X/G24ETK0/A1M	0811404319	3	10
49	4WRLE 16 EZ180SJ-3X/G24K0/A1M	0811404305	3	10
49	4WRLE 16 V120L-3X/G24ETK0/A1M	R901128116	5	10
49	4WRLE 16 V120M-3X/G24K0/A1M	0811404250	3	10
49	4WRLE 16 V200L-3X/G24ETK0/A1M	R901128117	5	10
49	4WRLE 16 V200M-3X/G24K0/A1M	0811404251	3	10
49	4WRLE 16 WZ180SJ-3X/G24K0/A1M	0811404307	3	10
49	4WRLE 25 EZ350SJ-3X/G24ETK0/A1M	0811404481	3	10
49	4WRLE 25 EZ350SJ-3X/G24K0/A1M	0811404454	3	10
49	4WRLE 25 V370M-3X/G24K0/A1M	0811404430	5	10
49	4WRLE 25 WZ350SJ-3X/G24K0/A1M	0811404456	3	10
	4WRSE-High Response Directional Valves			
50	4WRSE 10 V80-3X/G24K0/A1V	R900579286	5	10
	4WRZE-4/2, 4/3 Proportional Directional Valves			
51	4WRZE 16 E150-7X/6EG24N9ETK31/A1V	R900945995	3	10
	FESX-Proportional Cartridge Throttle Valves			
52	FESX 25CA-1X/210LZ4M	0811402515	5	10
52	FESX 32CA-1X/320LZ4M	0811402614	5	10
	FESXE-Proportional Cartridge Throttle Valves			
53	FESXE 40CA-1X/500LK0B1M	0811402622	5	10
	DBETBX-Pressure Relief Valves			
54	DBETBX-1X/180G24-37Z4M	0811402003	5	10
	DBETBEX-Proportional Pressure Relief Valves			
55	DBETBEX-1X/180G24K31A1M	0811402071	5	10
55	DBETBEX-1X/250G24K31A1M	0811402073	5	10
	DBE6X-Proportional Pressure Relief Valves			
56	DBE 6X-1X/315G24-8NZ4M	0811402043	5	10
	DBEE6-Proportional Pressure Relief Valves			
57	DBEE 6-2X/315G24K31A1M	R901323940	5	10
	DBETX-Proportional Pressure Relief Valves			
58	DBETX-1X/180G24-25NZ4M	0811402031	5	10
58	DBETX-1X/180G24-8NZ4M	0811402017	5	10
58	DBETX-1X/250G24-8NZ4M	0811402019	5	10
	DBETX-1X/315G24-25NZ4M	0811402032	5	10
59	**DBET & DBETE-Proportional Pressure Relief Valves**			
59	DBET-6X/200G24K4V	R901000846	5	10
59	DBET-6X/350G24K4V	R901000848	5	10
59	DBETE-6X/200G24K31A1V	R901029968	5	10
59	DBETE-6X/315G24K31A1V	R901029969	5	10
59	DBETE-6X/350G24K31A1V	R901029970	5	10
	DBETR-Proportional Pressure Relief Valves			
60	DBETR-1X/230G24K4M	R900370146	5	10
60	DBETR-1X/315G24K4M	R900485944	5	10

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	DBEME-Proportional Pressure Relief Valves			
61	DBEME 10-5X/200YG24K31M	R900954708	3	10
61	DBEME 10-5X/315YG24K31M	R900536812	3	10
	DRE6-Proportional Pressure Reducing Valves			
62	DRE 6-1X/100MG24K4M	R900932943	5	10
	DRE6X-Proportional Pressure Reducing Valves			
63	DRE 6X-1X/175MG24-8NZ4M	0811402055	5	10
	DREB6X-Proportional Pressure Reducing Valves			
64	DREB 6X-1X/175MG24-25Z4M	0811402051	5	10
	3DREP & 3DREPE-Proportional Pressure Reducing Valves			
65	3DREP 6 C-2X/25EG24N9K4/M	R900955887	5	10
65	3DREP 6 C-2X/25EG24N9K4/M-674	R901205987	5	10
65	3DREP 6 C-2X/25EG24N9K4/V	R900929529	5	10
65	3DREPE 6 A-2X/25EG24N9K31/A1V	R900925526	5	10
65	3DREPE 6 C-2X/25EG24N9K31/A1V	R900925484	5	10
65	3DREPE 6 C-2X/25EG24N9K31/F1V	R900926984	5	10
	DREBE6-Proportional Pressure Reducing Valves			
66	DREBE 6X-1X/175MG24K31A1M	0811402080	5	10
66	DREBE 6X-1X/175MG24K31F1M	0811402083	5	10
	ZDREE-Proportional Pressure Reducing Valves			
67	ZDREE 10 VP2-2X/200XLMG24K31A1M	R901198302	3	10
	 **Proportional Electronics**			
	VT-VSPA1-1-1X - Analog Amplifier			
68	VT-VSPA1-1-1X/	R900033823	5	10
	VT-VSPA1-2-1X - Analog Amplifier			
69	VT-VSPA1-2-1X/V0/0	R900782310	5	10
	VT-2000-5X - Electrical Amplifier			
70	VT 2000-5X/	R900033828	5	10
	VT-SSPA1-50 - Plug-in Amplifier			
71	VT-SSPA1-50-1X/V0/0-24	R901005414	5	10
	VT-SSPA1-5 - Plug-in Amplifier			
72	VT-SSPA1-508-20/V0	0811405144	5	10
72	VT-SSPA1-525-20/V0	0811405143	5	10
72	VT-SSPA1-525-2X/V0/I	0811405145	5	10
	VT-VSPA2-1-2X - Analog Amplifier			
73	VT-VSPA2-1-2X/V0/T1	R901002090	5	10
73	VT-VSPA2-1-2X/V0/T5	R901002095	5	10
	VT 11118-1X - Analog Amplifier Module			
74	VT 11118-1X/	R900211788	5	10
	MDSD - Mobile Dual Solenoid Driver			
75	MDSD1K-2X/0	R978886412	5	10
75	MDSD1K-2X/3	R978886415	3	10
75	MDSD-2X/0	R978886065	5	10
75	MDSD-2X/2	R978886067	3	10

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	VT-5041-3X - Analog Amplifier			
76	VT 5041-3X/1-0	R901236404	5	10
76	VT 5041-3X/3-0	R901196678	5	10
	VT-VRPA1-1 - Analog Amplifier			
77	VT-VRPA1-100-1X/V0/0	R901009038	5	10
77	VT-VRPA1-151-1X/V0/0	R901057060	5	10
	VT-VRPA1…RTS - Electrical Amplifier			
78	VT-VRPA1-527-20/V0/RTS-2STV	0811405073	5	10
	VT-VRPA1-527…RTS-2/2V - Electrical Amplifier			
79	VT-VRPA1-527-20/V0/RTS-2/2V	0811405074	5	10
	VT-VRPA1…PV-RTP - Electrical Amplifier			
80	VT-VRPA1-537-10/V0/PV-RTP	0811405102	5	10
	VT-VRPA2-…/T1 - Analog Amplifier			
81	VT-VRPA2-1-1X/V0/T1	R900979887	5	10
81	VT-VRPA2-2-1X/V0/T1	R900979889	5	10
	VT-VRPA2-5…RTP - Electrical Amplifier			
82	VT-VRPA2-527-10/V0/RTP	0811405119	5	10
82	VT-VRPA2-537-10/V0/RTP	0811405120	5	10
	VT-5035-1X - Electrical Amplifier			
83	VT 5035-1X/	R900579497	5	10
	VT-VRRA - Analog Amplifier			
84	VT-VRRA 1-527-20/V0	0811405060	5	10
84	VT-VRRA 1-527-20/V0/2STV	0811405063	5	10
84	VT-VRRA 1-537-20/V0	0811405061	5	10
	VT-VARAP1 - p/Q Amplifier			
85	VT-VARAP1-527-20/V0	0811405152	5	10
	VT-VACAP1 - p/Q Controller			
86	VT-VACAP-500-20/V0	0811405157	5	10
	VT-HACD-3 - Control Electronics			
87	VT-HACD-3-2X/0-I-00/000	R901239533	5	10
87	VT-HACD-3-2X/E-I-00/000	R901239535	5	10
87	VT-HACD-3-2X/P-I-00/000	R901227616	5	10
	VT3002 - Card Holder			
88	VT 3002-1-2X/32D (card holder)	R900020153	5	10
88	VT 3002-1-2X/32F	1834486001	5	10
88	VT 3002-1-2X/48F (card holder)	R900020154	5	10
	VT-SSBA1 - Plug-in Switching Amplifier			
89	VT-SSBA1-PWM-1X/V002/5	R901290194	3	10
	VT-DFP - Pilot Control Valves			
90	VT-DFP-A-2X/G24K0/0/V	R900703811	5	10
90	VT-DFPE-A-2X/G24K0/0A1V/V	R900712200	5	10
	VT-VETSY-1 - Service Case			
91	VT-VETSY-1-1X/1-2-1-1-0/USA	R978050422	3	10
	HM20 - Pressure Transducer			
92	HM 20-1X/100-C-K35	R901295668	5	10
921	HM 20-1X/100-H-K35	R901295667	5	10

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92		HM 20-1X/250-C-K35	R901296640	5	10
92		HM 20-1X/250-H-K35	R901296641	5	10
92		HM 20-1X/400-C-K35	R901295669	5	10
92		HM 20-1X/400-H-K35	R901295670	5	10
		Mobile Electronics			
93	***new***	BODAS Cable	R902109422	2	10
93	***new***	BODAS Service Diagnostic Connector	R909831291	2	10
93	***new***	BODAS Service Tool Full	R902109416	2	10
94	***new***	Fluid Temperature Sensor	0538009252	4	10
95	***new***	RA Amplifier 25 Pin Mating Connector	R902603063	4	10
95	***new***	RA2-1/10 Dual Solenoid Amplifier	R902091800	4	10
96	***new***	RC 52 Pin Mating Connector	R902602414	4	10
96	***new***	RC2-2/21 Microcontroller	R902098200	4	10
		Tie Rod Cylinders 			
		Hydraulic Cylinder			
97		CDT1MF1/1.50/0.63/....Z1X/S11HHDMWW	R978016333	5	5
97		CDT1MF1/1.50/0.63/….Z1X/S11HHUMWW	R978010269	5	5
97		CDT1MF1/1.50/1.00/….Z1X/S11HHUMWW	R978010270	5	5
97		CDT1MF1/2.00/0.63/….Z1X/S11HHUMWW	R978023890	5	5
97		CDT1MF1/2.00/1.00/.....Z1X/S11HHDMWW	R978010272	5	5
97		CDT1MF1/2.00/1.00/….Z1X/S11HHUMWW	R978013140	5	5
97		CDT1MF1/2.50/0.63/….Z1X/S11HHUMWW	R978027518	5	5
97		CDT1MF1/2.50/1.00/….Z1X/S11HHUMWW	R978013171	5	5
97		CDT1MF1/3.25/1.00/….Z1X/S11HHUMWW	R978025419	5	5
97		CDT1MF1/3.25/1.38/….Z1X/S11HHUMWW	R978011891	5	5
97		CDT1MF1/4.00/1.00/….Z1X/S11HHUMWW	R978027519	5	5
97		CDT1MF1/4.00/1.38/….Z1X/S11HHUMWW	R978021984	5	5
97		CDT1MF2/1.50/0.63/….Z1X/S11HHUMWW	R978010313	5	5
97		CDT1MF2/1.50/1.00/….Z1X/S11HHUMWW	R978010314	5	5
97		CDT1MF2/2.00/0.63/….Z1X/S11HHUMWW	R978027521	5	5
97		CDT1MF2/2.00/1.00/.....Z1X/S11HHDMWW	R978010316	5	5
97		CDT1MF2/2.00/1.00/….Z1X/S11HHUMWW	R978018073	5	5
97		CDT1MF2/2.50/0.63/….Z1X/S11HHUMWW	R978027522	5	5
97		CDT1MF2/2.50/1.00/….Z1X/S11HHUMWW	R978024890	5	5
97		CDT1MF2/3.25/1.00/….Z1X/S11HHUMWW	R978027523	5	5
97		CDT1MF2/3.25/1.38/….Z1X/S11HHUMWW	R978027524	5	5
97		CDT1MF2/4.00/1.00/….Z1X/S11HHUMWW	R978027525	5	5
97		CDT1MF2/4.00/1.38/….Z1X/S11HHUMWW	R978027526	5	5
97		CDT1MP1/1.50/0.63/….Z1X/S11HHUMWW	R978010355	5	5
97		CDT1MP1/1.50/1.00/.....Z1X/S11HHDMWW	R978027528	5	5
97		CDT1MP1/1.50/1.00/….Z1X/S11HHUMWW	R978010356	5	5
97		CDT1MP1/2.00/0.63/….Z1X/S11HHUMWW	R978023862	5	5
97		CDT1MP1/2.00/1.00/….Z1X/S11HHUMWW	R978018105	5	5
97		CDT1MP1/2.00/1.38/....Z1X/S11HHDMWW	R978033430	5	5
97		CDT1MP1/2.50/0.63/….Z1X/S11HHUMWW	R978027530	5	5
97		CDT1MP1/2.50/1.00/….Z1X/S11HHUMWW	R978017878	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
97	CDT1MP1/3.25/1.00/….Z1X/S11HHUMWW	R978012966	5	5
97	CDT1MP1/3.25/1.38/….Z1X/S11HHUMWW	R978027531	5	5
97	CDT1MP1/4.00/1.00/….Z1X/S11HHUMWW	R978027532	5	5
97	CDT1MP1/4.00/1.38/….Z1X/S11HHUMWW	R978027533	5	5
97	CDT1MS2/1.50/0.63/….Z1X/S11HHUMWW	R978010399	5	5
97	CDT1MS2/1.50/1.00/….Z1X/S11HHUMWW	R978010400	5	5
97	CDT1MS2/2.00/0.63/….Z1X/S11HHUMWW	R978027536	5	5
97	CDT1MS2/2.00/1.00/….Z1X/S11HHUMWW	R978027537	5	5
97	CDT1MS2/2.00/1.38/.....Z1X/S11HHUMWW	R978010403	5	5
97	CDT1MS2/2.50/0.63/….Z1X/S11HHUMWW	R978027538	5	5
97	CDT1MS2/2.50/1.00/….Z1X/S11HHUMWW	R978018526	5	5
97	CDT1MS2/3.25/1.00/….Z1X/S11HHUMWW	R978027539	5	5
97	CDT1MS2/3.25/1.38/….Z1X/S11HHUMWW	R978027540	5	5
97	CDT1MS2/4.00/1.00/….Z1X/S11HHUMWW	R978024912	5	5
97	CDT1MS2/4.00/1.38/….Z1X/S11HHUMWW	R978026121	5	5
97	CDT1MS4/1.50/0.63/….Z1X/S11HHUMWW	R978025011	5	5
97	CDT1MS4/1.50/1.00/….Z1X/S11HHUMWW	R978027543	5	5
97	CDT1MS4/2.00/0.63/….Z1X/S11HHUMWW	R978027545	5	5
97	CDT1MS4/2.00/1.00/….Z1X/S11HHUMWW	R978027547	5	5
97	CDT1MS4/2.50/0.63/….Z1X/S11HHUMWW	R978027549	5	5
97	CDT1MS4/2.50/1.00/….Z1X/S11HHUMWW	R978027551	5	5
97	CDT1MS4/3.25/1.00/….Z1X/S11HHUMWW	R978027553	5	5
97	CDT1MS4/3.25/1.38/….Z1X/S11HHUMWW	R978027555	5	5
97	CDT1MS4/4.00/1.00/….Z1X/S11HHUMWW	R978027557	5	5
97	CDT1MS4/4.00/1.38/….Z1X/S11HHUMWW	R978027559	5	5
97	CDT1MT1/2.00/1.38/....Z1X/S11HHUMWW	R978033429	5	5
97	CDT1MX0/1.50/0.63/….Z1X/S11HHUMWW	R978024680	5	5
97	CDT1MX0/1.50/1.00/….Z1X/S11HHUMWW	R978027562	5	5
97	CDT1MX0/2.00/0.63/….Z1X/S11HHUMWW	R978027564	5	5
97	CDT1MX0/2.00/1.00/….Z1X/S11HHUMWW	R978027566	5	5
97	CDT1MX0/2.50/0.63/….Z1X/S11HHUMWW	R978027568	5	5
97	CDT1MX0/2.50/1.00/….Z1X/S11HHUMWW	R978027570	5	5
97	CDT1MX0/3.25/1.00/….Z1X/S11HHUMWW	R978027572	5	5
97	CDT1MX0/3.25/1.38/….Z1X/S11HHUMWW	R978027574	5	5
97	CDT1MX0/4.00/1.00/….Z1X/S11HHUMWW	R978027576	5	5
97	CDT1MX0/4.00/1.38/….Z1X/S11HHUMWW	R978027578	5	5
97	CDT1MX1/1.50/0.63/….Z1X/S11HHUMWW	R978027580	5	5
97	CDT1MX1/1.50/1.00/….Z1X/S11HHUMWW	R978027582	5	5
97	CDT1MX1/2.00/0.63/….Z1X/S11HHUMWW	R978027584	5	5
97	CDT1MX1/2.00/1.00/….Z1X/S11HHUMWW	R978027586	5	5
97	CDT1MX1/2.50/0.63/….Z1X/S11HHUMWW	R978027588	5	5
97	CDT1MX1/2.50/1.00/….Z1X/S11HHUMWW	R978027590	5	5
97	CDT1MX1/3.25/1.00/….Z1X/S11HHUMWW	R978027592	5	5
97	CDT1MX1/3.25/1.38/….Z1X/S11HHUMWW	R978027594	5	5
97	CDT1MX1/4.00/1.00/….Z1X/S11HHUMWW	R978027596	5	5
97	CDT1MX1/4.00/1.38/….Z1X/S11HHUMWW	R978027598	5	5
97	CDT1MX2/1.50/0.63/….Z1X/S11HHUMWW	R978027600	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
97	CDT1MX2/1.50/1.00/….Z1X/S11HHUMWW	R978027602	5	5
97	CDT1MX2/2.00/0.63/….Z1X/S11HHUMWW	R978027604	5	5
97	CDT1MX2/2.00/1.00/….Z1X/S11HHUMWW	R978027606	5	5
97	CDT1MX2/2.50/0.63/….Z1X/S11HHUMWW	R978027608	5	5
97	CDT1MX2/2.50/1.00/….Z1X/S11HHUMWW	R978027610	5	5
97	CDT1MX2/3.25/1.00/….Z1X/S11HHUMWW	R978027612	5	5
97	CDT1MX2/3.25/1.38/….Z1X/S11HHUMWW	R978027614	5	5
97	CDT1MX2/4.00/1.00/….Z1X/S11HHUMWW	R978027616	5	5
97	CDT1MX2/4.00/1.38/….Z1X/S11HHUMWW	R978027618	5	5
97	CDT1MX3/1.50/0.63/….Z1X/S11HHUMWW	R978027620	5	5
97	CDT1MX3/1.50/1.00/….Z1X/S11HHUMWW	R978027622	5	5
97	CDT1MX3/2.00/0.63/….Z1X/S11HHUMWW	R978027624	5	5
97	CDT1MX3/2.00/1.00/….Z1X/S11HHUMWW	R978027626	5	5
97	CDT1MX3/2.50/0.63/….Z1X/S11HHUMWW	R978027628	5	5
97	CDT1MX3/2.50/1.00/….Z1X/S11HHUMWW	R978027630	5	5
97	CDT1MX3/3.25/1.00/….Z1X/S11HHUMWW	R978027632	5	5
97	CDT1MX3/3.25/1.38/….Z1X/S11HHUMWW	R978027634	5	5
97	CDT1MX3/4.00/1.00/….Z1X/S11HHUMWW	R978027636	5	5
97	CDT1MX3/4.00/1.38/….Z1X/S11HHUMWW	R978027638	5	5
97	CDT4ME5/1.50/0.63/….Z1X/S11HHUMWW	R978003328	5	5
97	CDT4ME5/1.50/1.00/….Z1X/S11HHDMWW	R978003331	5	5
97	CDT4ME5/1.50/1.00/….Z1X/S11HHUMWW	R978003330	5	5
97	CDT4ME5/2.00/1.00/….Z1X/S11HHDMWW	R978003377	5	5
97	CDT4ME5/2.00/1.00/….Z1X/S11HHUMWW	R978003376	5	5
97	CDT4ME5/2.00/1.38/….Z1X/S11HHDMWW	R978003379	5	5
97	CDT4ME5/2.00/1.38/….Z1X/S11HHUMWW	R978003378	5	5
97	CDT4ME5/2.50/1.00/….Z1X/S11HHDMWW	R978003425	5	5
97	CDT4ME5/2.50/1.00/….Z1X/S11HHUMWW	R978003424	5	5
97	CDT4ME5/2.50/1.38/….Z1X/S11HHDMWW	R978003427	5	5
97	CDT4ME5/2.50/1.38/….Z1X/S11HHUMWW	R978003426	5	5
97	CDT4ME5/3.25/1.38/….Z1X/S11HHDMWW	R978003473	5	5
97	CDT4ME5/3.25/1.38/….Z1X/S11HHUMWW	R978003472	5	5
97	CDT4ME5/3.25/1.75/….Z1X/S11HHDMWW	R978003475	5	5
97	CDT4ME5/3.25/1.75/….Z1X/S11HHUMWW	R978003474	5	5
97	CDT4ME5/4.00/1.75/….Z1X/S11HHDMWW	R978003521	5	5
97	CDT4ME5/4.00/1.75/….Z1X/S11HHUMWW	R978003520	5	5
97	CDT4ME5/4.00/2.00/….Z1X/S11HHDMWW	R978003523	5	5
97	CDT4ME5/4.00/2.00/….Z1X/S11HHUMWW	R978003522	5	5
97	CDT4ME6/1.50/0.63/….Z1X/S11HHDMWW	R978930513	5	5
97	CDT4ME6/1.50/0.63/….Z1X/S11HHUMWW	R978043265	5	5
97	CDT4ME6/1.50/1.00/….Z1X/S11HHDMWW	R978930514	5	5
97	CDT4ME6/1.50/1.00/….Z1X/S11HHUMWW	R978011196	5	5
97	CDT4ME6/2.00/1.00/….Z1X/S11HHDMWW	R978930515	5	5
97	CDT4ME6/2.00/1.00/….Z1X/S11HHUMWW	R978043266	5	5
97	CDT4ME6/2.00/1.38/….Z1X/S11HHDMWW	R978930516	5	5
97	CDT4ME6/2.00/1.38/….Z1X/S11HHUMWW	R978043267	5	5
97	CDT4ME6/2.50/1.00/….Z1X/S11HHDMWW	R978930517	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
97	CDT4ME6/2.50/1.00/….Z1X/S11HHUMWW	R978043268	5	5
97	CDT4ME6/2.50/1.38/….Z1X/S11HHDMWW	R978930518	5	5
97	CDT4ME6/2.50/1.38/….Z1X/S11HHUMWW	R978034810	5	5
97	CDT4ME6/3.25/1.38/….Z1X/S11HHDMWW	R978930520	5	5
97	CDT4ME6/3.25/1.38/….Z1X/S11HHUMWW	R978043269	5	5
97	CDT4ME6/3.25/1.75/….Z1X/S11HHDMWW	R978930521	5	5
97	CDT4ME6/3.25/1.75/….Z1X/S11HHUMWW	R978018874	5	5
97	CDT4ME6/4.00/1.75/….Z1X/S11HHDMWW	R978930523	5	5
97	CDT4ME6/4.00/1.75/….Z1X/S11HHUMWW	R978043270	5	5
97	CDT4ME6/4.00/2.00/….Z1X/S11HHDMWW	R978930524	5	5
97	CDT4ME6/4.00/2.00/….Z1X/S11HHUMWW	R978043271	5	5
97	CDT4MF1/1.50/0.63/….Z1X/S11HHDMWW	R978003333	5	5
97	CDT4MF1/1.50/0.63/….Z1X/S11HHUMWW	R978003332	5	5
97	CDT4MF1/1.50/1.00/….Z1X/S11HHDMWW	R978003335	5	5
97	CDT4MF1/1.50/1.00/….Z1X/S11HHUMWW	R978003334	5	5
97	CDT4MF1/2.00/1.00/....Z1X/S11HHUMWW	R978003380	5	5
97	CDT4MF1/2.00/1.00/….Z1X/S11HHDMWW	R978003381	5	5
97	CDT4MF1/2.00/1.38/….Z1X/S11HHDMWW	R978003383	5	5
97	CDT4MF1/2.00/1.38/….Z1X/S11HHUMWW	R978003382	5	5
97	CDT4MF1/2.50/1.00/….Z1X/S11HHDMWW	R978003429	5	5
97	CDT4MF1/2.50/1.00/….Z1X/S11HHUMWW	R978003428	5	5
97	CDT4MF1/2.50/1.38/….Z1X/S11HHDMWW	R978003431	5	5
97	CDT4MF1/2.50/1.38/….Z1X/S11HHUMWW	R978003430	5	5
97	CDT4MF1/3.25/1.38/….Z1X/S11HHDMWW	R978003477	5	5
97	CDT4MF1/3.25/1.38/….Z1X/S11HHUMWW	R978003476	5	5
97	CDT4MF1/3.25/1.75/….Z1X/S11HHDMWW	R978003479	5	5
97	CDT4MF1/3.25/1.75/….Z1X/S11HHUMWW	R978003478	5	5
97	CDT4MF1/4.00/1.75/….Z1X/S11HHDMWW	R978003525	5	5
97	CDT4MF1/4.00/1.75/….Z1X/S11HHUMWW	R978003524	5	5
97	CDT4MF1/4.00/2.00/….Z1X/S11HHDMWW	R978003527	5	5
97	CDT4MF1/4.00/2.00/….Z1X/S11HHUMWW	R978003526	5	5
97	CDT4MF2/1.50/0.63/….Z1X/S11HHDMWW	R978003337	5	5
97	CDT4MF2/1.50/0.63/….Z1X/S11HHUMWW	R978003336	5	5
97	CDT4MF2/1.50/1.00/….Z1X/S11HHDMWW	R978003339	5	5
97	CDT4MF2/1.50/1.00/….Z1X/S11HHUMWW	R978003338	5	5
97	CDT4MF2/2.00/1.00/….Z1X/S11HHDMWW	R978003385	5	5
97	CDT4MF2/2.00/1.00/….Z1X/S11HHUMWW	R978003384	5	5
97	CDT4MF2/2.00/1.38/….Z1X/S11HHDMWW	R978003387	5	5
97	CDT4MF2/2.00/1.38/….Z1X/S11HHUMWW	R978003386	5	5
97	CDT4MF2/2.50/1.00/….Z1X/S11HHDMWW	R978003433	5	5
97	CDT4MF2/2.50/1.00/….Z1X/S11HHUMWW	R978003432	5	5
97	CDT4MF2/2.50/1.38/….Z1X/S11HHDMWW	R978003435	5	5
97	CDT4MF2/2.50/1.38/….Z1X/S11HHUMWW	R978003434	5	5
97	CDT4MF2/3.25/1.38/….Z1X/S11HHDMWW	R978003481	5	5
97	CDT4MF2/3.25/1.38/….Z1X/S11HHUMWW	R978003480	5	5
97	CDT4MF2/3.25/1.75/….Z1X/S11HHDMWW	R978003483	5	5
97	CDT4MF2/3.25/1.75/….Z1X/S11HHUMWW	R978003482	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
97	CDT4MF2/4.00/1.75/….Z1X/S11HHDMWW	R978003529	5	5
97	CDT4MF2/4.00/1.75/….Z1X/S11HHUMWW	R978003528	5	5
97	CDT4MF2/4.00/2.00/….Z1X/S11HHDMWW	R978003531	5	5
97	CDT4MF2/4.00/2.00/….Z1X/S11HHUMWW	R978003530	5	5
97	CDT4MF5/4.00/1.75/....Z1X/S11HEUMWW	R978034028	5	5
97	CDT4MP1/1.50/0.63/….Z1X/S11HHDMWW	R978003341	5	5
97	CDT4MP1/1.50/0.63/….Z1X/S11HHUMWW	R978003340	5	5
97	CDT4MP1/1.50/1.00/….Z1X/S11HHDMWW	R978003343	5	5
97	CDT4MP1/1.50/1.00/….Z1X/S11HHUMWW	R978003342	5	5
97	CDT4MP1/2.00/1.00/….Z1X/S11HHDMWW	R978003389	5	5
97	CDT4MP1/2.00/1.00/….Z1X/S11HHUMWW	R978003388	5	5
97	CDT4MP1/2.00/1.38/….Z1X/S11HHDMWW	R978003391	5	5
97	CDT4MP1/2.00/1.38/….Z1X/S11HHUMWW	R978003390	5	5
97	CDT4MP1/2.50/1.00/….Z1X/S11HHDMWW	R978003437	5	5
97	CDT4MP1/2.50/1.00/….Z1X/S11HHUMWW	R978003436	5	5
97	CDT4MP1/2.50/1.38/….Z1X/S11HHDMWW	R978003439	5	5
97	CDT4MP1/2.50/1.38/….Z1X/S11HHUMWW	R978003438	5	5
97	CDT4MP1/3.25/1.38/….Z1X/S11HHDMWW	R978003485	5	5
97	CDT4MP1/3.25/1.38/….Z1X/S11HHUMWW	R978003484	5	5
97	CDT4MP1/3.25/1.75/….Z1X/S11HHDMWW	R978003487	5	5
97	CDT4MP1/3.25/1.75/….Z1X/S11HHUMWW	R978003486	5	5
97	CDT4MP1/4.00/1.75/….Z1X/S11HHDMWW	R978003533	5	5
97	CDT4MP1/4.00/1.75/….Z1X/S11HHUMWW	R978003532	5	5
97	CDT4MP1/4.00/2.00/….Z1X/S11HHDMWW	R978003535	5	5
97	CDT4MP1/4.00/2.00/….Z1X/S11HHUMWW	R978003534	5	5
97	CDT4MS2/1.50/0.63/….Z1X/S11HHDMWW	R978003345	5	5
97	CDT4MS2/1.50/0.63/….Z1X/S11HHUMWW	R978003344	5	5
97	CDT4MS2/1.50/1.00/….Z1X/S11HHDMWW	R978003347	5	5
97	CDT4MS2/1.50/1.00/….Z1X/S11HHUMWW	R978003346	5	5
97	CDT4MS2/2.00/1.00/….Z1X/S11HHDMWW	R978003393	5	5
97	CDT4MS2/2.00/1.00/….Z1X/S11HHUMWW	R978003392	5	5
97	CDT4MS2/2.00/1.38/….Z1X/S11HHDMWW	R978003395	5	5
97	CDT4MS2/2.00/1.38/….Z1X/S11HHUMWW	R978003394	5	5
97	CDT4MS2/2.50/1.00/….Z1X/S11HHDMWW	R978003441	5	5
97	CDT4MS2/2.50/1.00/….Z1X/S11HHUMWW	R978003440	5	5
97	CDT4MS2/2.50/1.38/….Z1X/S11HHDMWW	R978003443	5	5
97	CDT4MS2/2.50/1.38/….Z1X/S11HHUMWW	R978003442	5	5
97	CDT4MS2/3.25/1.38/….Z1X/S11HHDMWW	R978003489	5	5
97	CDT4MS2/3.25/1.38/….Z1X/S11HHUMWW	R978003488	5	5
97	CDT4MS2/3.25/1.75/….Z1X/S11HHDMWW	R978003491	5	5
97	CDT4MS2/3.25/1.75/….Z1X/S11HHUMWW	R978003490	5	5
97	CDT4MS2/4.00/1.75/….Z1X/S11HHDMWW	R978003537	5	5
97	CDT4MS2/4.00/1.75/….Z1X/S11HHUMWW	R978003536	5	5
97	CDT4MS2/4.00/2.00/….Z1X/S11HHDMWW	R978003539	5	5
97	CDT4MS2/4.00/2.00/….Z1X/S11HHUMWW	R978003538	5	5
97	CDT4MS4/1.50/0.63/….Z1X/S11HHDMWW	R978003349	5	5
97	CDT4MS4/1.50/0.63/….Z1X/S11HHUMWW	R978003348	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
97	CDT4MS4/1.50/1.00/….Z1X/S11HHDMWW	R978003351	5	5
97	CDT4MS4/1.50/1.00/….Z1X/S11HHUMWW	R978003350	5	5
97	CDT4MS4/2.00/1.00/….Z1X/S11HHDMWW	R978003397	5	5
97	CDT4MS4/2.00/1.00/….Z1X/S11HHUMWW	R978003396	5	5
97	CDT4MS4/2.00/1.38/….Z1X/S11HHDMWW	R978003399	5	5
97	CDT4MS4/2.00/1.38/….Z1X/S11HHUMWW	R978003398	5	5
97	CDT4MS4/2.50/1.00/….Z1X/S11HHDMWW	R978003445	5	5
97	CDT4MS4/2.50/1.00/….Z1X/S11HHUMWW	R978003444	5	5
97	CDT4MS4/2.50/1.38/….Z1X/S11HHDMWW	R978003447	5	5
97	CDT4MS4/2.50/1.38/….Z1X/S11HHUMWW	R978003446	5	5
97	CDT4MS4/3.25/1.38/….Z1X/S11HHDMWW	R978003493	5	5
97	CDT4MS4/3.25/1.38/….Z1X/S11HHUMWW	R978003492	5	5
97	CDT4MS4/3.25/1.75/….Z1X/S11HHDMWW	R978003495	5	5
97	CDT4MS4/3.25/1.75/….Z1X/S11HHUMWW	R978003494	5	5
97	CDT4MS4/4.00/1.75/….Z1X/S11HHDMWW	R978003541	5	5
97	CDT4MS4/4.00/1.75/….Z1X/S11HHUMWW	R978003540	5	5
97	CDT4MS4/4.00/2.00/….Z1X/S11HHDMWW	R978003543	5	5
97	CDT4MS4/4.00/2.00/….Z1X/S11HHUMWW	R978003542	5	5
97	CDT4MT1/1.50/0.63/….Z1X/S11HHDMWW	R978003321	5	5
97	CDT4MT1/1.50/0.63/….Z1X/S11HHUMWW	R978003320	5	5
97	CDT4MT1/1.50/1.00/….Z1X/S11HHDMWW	R978003323	5	5
97	CDT4MT1/1.50/1.00/….Z1X/S11HHUMWW	R978003322	5	5
97	CDT4MT1/2.00/1.00/….Z1X/S11HHDMWW	R978003369	5	5
97	CDT4MT1/2.00/1.00/….Z1X/S11HHUMWW	R978003368	5	5
97	CDT4MT1/2.00/1.38/….Z1X/S11HHDMWW	R978003371	5	5
97	CDT4MT1/2.00/1.38/….Z1X/S11HHUMWW	R978003370	5	5
97	CDT4MT1/2.50/1.00/….Z1X/S11HHDMWW	R978003417	5	5
97	CDT4MT1/2.50/1.00/….Z1X/S11HHUMWW	R978003416	5	5
97	CDT4MT1/2.50/1.38/….Z1X/S11HHDMWW	R978003419	5	5
97	CDT4MT1/2.50/1.38/….Z1X/S11HHUMWW	R978003418	5	5
97	CDT4MT1/3.25/1.38/….Z1X/S11HHDMWW	R978003465	5	5
97	CDT4MT1/3.25/1.38/….Z1X/S11HHUMWW	R978003464	5	5
97	CDT4MT1/3.25/1.75/….Z1X/S11HHDMWW	R978003467	5	5
97	CDT4MT1/3.25/1.75/….Z1X/S11HHUMWW	R978003466	5	5
97	CDT4MT1/4.00/1.75/….Z1X/S11HHDMWW	R978003513	5	5
97	CDT4MT1/4.00/1.75/….Z1X/S11HHUMWW	R978003512	5	5
97	CDT4MT1/4.00/2.00/….Z1X/S11HHDMWW	R978003515	5	5
97	CDT4MT1/4.00/2.00/….Z1X/S11HHUMWW	R978003514	5	5
97	CDT4MT2/1.50/0.63/….Z1X/S11HHDMWW	R978003325	5	5
97	CDT4MT2/1.50/0.63/….Z1X/S11HHUMWW	R978003324	5	5
97	CDT4MT2/1.50/1.00/….Z1X/S11HHDMWW	R978003327	5	5
97	CDT4MT2/1.50/1.00/….Z1X/S11HHUMWW	R978003326	5	5
97	CDT4MT2/2.00/1.00/….Z1X/S11HHDMWW	R978003373	5	5
97	CDT4MT2/2.00/1.00/….Z1X/S11HHUMWW	R978003372	5	5
97	CDT4MT2/2.00/1.38/….Z1X/S11HHDMWW	R978003375	5	5
97	CDT4MT2/2.00/1.38/….Z1X/S11HHUMWW	R978003374	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
97	CDT4MT2/2.50/1.00/….Z1X/S11HHDMWW	R978003421	5	5
97	CDT4MT2/2.50/1.00/….Z1X/S11HHUMWW	R978003420	5	5
97	CDT4MT2/2.50/1.38/….Z1X/S11HHDMWW	R978003423	5	5
97	CDT4MT2/2.50/1.38/….Z1X/S11HHUMWW	R978003422	5	5
97	CDT4MT2/3.25/1.38/….Z1X/S11HHDMWW	R978003469	5	5
97	CDT4MT2/3.25/1.38/….Z1X/S11HHUMWW	R978003468	5	5
97	CDT4MT2/3.25/1.75/….Z1X/S11HHDMWW	R978003471	5	5
97	CDT4MT2/3.25/1.75/….Z1X/S11HHUMWW	R978003470	5	5
97	CDT4MT2/4.00/1.75/….Z1X/S11HHDMWW	R978003517	5	5
97	CDT4MT2/4.00/1.75/….Z1X/S11HHUMWW	R978003516	5	5
97	CDT4MT2/4.00/2.00/….Z1X/S11HHDMWW	R978003519	5	5
97	CDT4MT2/4.00/2.00/….Z1X/S11HHUMWW	R978003518	5	5
97	CDT4MX0/1.50/0.63/….Z1X/S11HHDMWW	R978003305	5	5
97	CDT4MX0/1.50/0.63/….Z1X/S11HHUMWW	R978003304	5	5
97	CDT4MX0/1.50/1.00/….Z1X/S11HHDMWW	R978003307	5	5
97	CDT4MX0/1.50/1.00/….Z1X/S11HHUMWW	R978003306	5	5
97	CDT4MX0/2.00/1.00/….Z1X/S11HHDMWW	R978003353	5	5
97	CDT4MX0/2.00/1.00/….Z1X/S11HHUMWW	R978003352	5	5
97	CDT4MX0/2.00/1.38/….Z1X/S11HHDMWW	R978003355	5	5
97	CDT4MX0/2.00/1.38/….Z1X/S11HHUMWW	R978003354	5	5
97	CDT4MX0/2.50/1.00/….Z1X/S11HHDMWW	R978003401	5	5
97	CDT4MX0/2.50/1.00/….Z1X/S11HHUMWW	R978003400	5	5
97	CDT4MX0/2.50/1.38/….Z1X/S11HHDMWW	R978003403	5	5
97	CDT4MX0/2.50/1.38/….Z1X/S11HHUMWW	R978003402	5	5
97	CDT4MX0/3.25/1.38/….Z1X/S11HHDMWW	R978003449	5	5
97	CDT4MX0/3.25/1.38/….Z1X/S11HHUMWW	R978003448	5	5
97	CDT4MX0/3.25/1.75/….Z1X/S11HHDMWW	R978003451	5	5
97	CDT4MX0/3.25/1.75/….Z1X/S11HHUMWW	R978003450	5	5
97	CDT4MX0/4.00/1.75/….Z1X/S11HHDMWW	R978003497	5	5
97	CDT4MX0/4.00/1.75/….Z1X/S11HHUMWW	R978003496	5	5
97	CDT4MX0/4.00/2.00/….Z1X/S11HHDMWW	R978003499	5	5
97	CDT4MX0/4.00/2.00/….Z1X/S11HHUMWW	R978003498	5	5
97	CDT4MX1/1.50/0.63/….Z1X/S11HHDMWW	R978003309	5	5
97	CDT4MX1/1.50/0.63/….Z1X/S11HHUMWW	R978003308	5	5
97	CDT4MX1/1.50/1.00/….Z1X/S11HHDMWW	R978003311	5	5
97	CDT4MX1/1.50/1.00/….Z1X/S11HHUMWW	R978003310	5	5
97	CDT4MX1/2.00/1.00/….Z1X/S11HHDMWW	R978003357	5	5
97	CDT4MX1/2.00/1.00/….Z1X/S11HHUMWW	R978003356	5	5
97	CDT4MX1/2.00/1.38/….Z1X/S11HHDMWW	R978003359	5	5
97	CDT4MX1/2.00/1.38/….Z1X/S11HHUMWW	R978003358	5	5
97	CDT4MX1/2.50/1.00/….Z1X/S11HHDMWW	R978003405	5	5
97	CDT4MX1/2.50/1.00/….Z1X/S11HHUMWW	R978003404	5	5
97	CDT4MX1/2.50/1.38/….Z1X/S11HHDMWW	R978003407	5	5
97	CDT4MX1/2.50/1.38/….Z1X/S11HHUMWW	R978003406	5	5
97	CDT4MX1/3.25/1.38/….Z1X/S11HHDMWW	R978003453	5	5
97	CDT4MX1/3.25/1.38/….Z1X/S11HHUMWW	R978003452	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
97	CDT4MX1/3.25/1.75/….Z1X/S11HHDMWW	R978003455	5	5
97	CDT4MX1/3.25/1.75/….Z1X/S11HHUMWW	R978003454	5	5
97	CDT4MX1/4.00/1.75/….Z1X/S11HHDMWW	R978003501	5	5
97	CDT4MX1/4.00/1.75/….Z1X/S11HHUMWW	R978003500	5	5
97	CDT4MX1/4.00/2.00/….Z1X/S11HHDMWW	R978003503	5	5
97	CDT4MX1/4.00/2.00/….Z1X/S11HHUMWW	R978003502	5	5
97	CDT4MX2/1.50/0.63/….Z1X/S11HHDMWW	R978003313	5	5
97	CDT4MX2/1.50/0.63/….Z1X/S11HHUMWW	R978003312	5	5
97	CDT4MX2/1.50/1.00/….Z1X/S11HHDMWW	R978003315	5	5
97	CDT4MX2/1.50/1.00/….Z1X/S11HHUMWW	R978003314	5	5
97	CDT4MX2/2.00/1.00/….Z1X/S11HHDMWW	R978003361	5	5
97	CDT4MX2/2.00/1.00/….Z1X/S11HHUMWW	R978003360	5	5
97	CDT4MX2/2.00/1.38/….Z1X/S11HHDMWW	R978003363	5	5
97	CDT4MX2/2.00/1.38/….Z1X/S11HHUMWW	R978003362	5	5
97	CDT4MX2/2.50/1.00/….Z1X/S11HHDMWW	R978003409	5	5
97	CDT4MX2/2.50/1.00/….Z1X/S11HHUMWW	R978003408	5	5
97	CDT4MX2/2.50/1.38/….Z1X/S11HHDMWW	R978003411	5	5
97	CDT4MX2/2.50/1.38/….Z1X/S11HHUMWW	R978003410	5	5
97	CDT4MX2/3.25/1.38/….Z1X/S11HHDMWW	R978003457	5	5
97	CDT4MX2/3.25/1.38/….Z1X/S11HHUMWW	R978003456	5	5
97	CDT4MX2/3.25/1.75/….Z1X/S11HHDMWW	R978003459	5	5
97	CDT4MX2/3.25/1.75/….Z1X/S11HHUMWW	R978003458	5	5
97	CDT4MX2/4.00/1.75/….Z1X/S11HHDMWW	R978003505	5	5
97	CDT4MX2/4.00/1.75/….Z1X/S11HHUMWW	R978003504	5	5
97	CDT4MX2/4.00/2.00/….Z1X/S11HHDMWW	R978003507	5	5
97	CDT4MX2/4.00/2.00/….Z1X/S11HHUMWW	R978003506	5	5
97	CDT4MX3/1.50/0.63/….Z1X/S11HHDMWW	R978003317	5	5
97	CDT4MX3/1.50/0.63/….Z1X/S11HHUMWW	R978003316	5	5
97	CDT4MX3/1.50/1.00/….Z1X/S11HHDMWW	R978003319	5	5
97	CDT4MX3/1.50/1.00/….Z1X/S11HHUMWW	R978003318	5	5
97	CDT4MX3/2.00/1.00/….Z1X/S11HHDMWW	R978003365	5	5
97	CDT4MX3/2.00/1.00/….Z1X/S11HHUMWW	R978003364	5	5
97	CDT4MX3/2.00/1.38/….Z1X/S11HHDMWW	R978003367	5	5
97	CDT4MX3/2.00/1.38/….Z1X/S11HHUMWW	R978003366	5	5
97	CDT4MX3/2.50/1.00/….Z1X/S11HHDMWW	R978003413	5	5
97	CDT4MX3/2.50/1.00/….Z1X/S11HHUMWW	R978003412	5	5
97	CDT4MX3/2.50/1.38/….Z1X/S11HHDMWW	R978003415	5	5
97	CDT4MX3/2.50/1.38/….Z1X/S11HHUMWW	R978003414	5	5
97	CDT4MX3/3.25/1.38/….Z1X/S11HHDMWW	R978003461	5	5
97	CDT4MX3/3.25/1.38/….Z1X/S11HHUMWW	R978003460	5	5
97	CDT4MX3/3.25/1.75/….Z1X/S11HHDMWW	R978003463	5	5
97	CDT4MX3/3.25/1.75/….Z1X/S11HHUMWW	R978003462	5	5
97	CDT4MX3/4.00/1.75/….Z1X/S11HHDMWW	R978003509	5	5
97	CDT4MX3/4.00/1.75/….Z1X/S11HHUMWW	R978003508	5	5
97	CDT4MX3/4.00/2.00/….Z1X/S11HHDMWW	R978003511	5	5
97	CDT4MX3/4.00/2.00/….Z1X/S11HHUMWW	R978003510	5	5

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
	Mobile Controls			
	Hydraulic Pilot Control			
98	1-2 TH6 L 06-10/M 05	R907225176	3	10
98	1-2 TH6 L 97-10/M 05	R908352025	3	10
98	1-2 TH6 M 06-10/M 05	R907225383	3	10
98	1-2 TH6 M 97-10/M 05	R908352026	3	10
98	1-2 TH6 P 06-10/M 05	R907223668	3	10
98	1-2 TH6 P 97-10/M 05	R908352027	3	10
98	1-2 TH6 T 97-10/M 05	R908353005	3	10
98	1-2TH6L06-1X/M05 SO418	R978728584	3	10
98	1-2TH6M06-1X/M05 SO418	R978728585	3	10
98	2 TH6 L 06-10/M 05	R907223719	3	10
98	2 TH6 L 06-10/M 05 S418	R908351214	3	10
98	2 TH6 M 06-10/M 05	R907223721	3	10
98	2 TH6 P 06-10/M 05	R907223723	3	10
98	2 TH6 P 06-10/M 05 S418	R908351216	3	10
	Compact Hydraulics			
	Check, Poppet Type			
99	VUCN-08A-00 043120005600000	R901007308	3	10
99	VUCN-08A-A0 0431200056A0000	R930006992	3	10
100	VUCN-10A-00 043123008500000	R901106596	3	10
	Shuttle, Ball Type			
101	049405005600000 SELB-08A	R901161981	3	10
	Relief			
102	VSBN-08A-S-35 041149735635000	R901113601	3	10
103	VSBN-10A-20 041155038520000	R901113610	3	10
103	VSBN-10A-35 041155038535000	R901115702	3	10
	Relief, Poppet Type			
104	VSDN-10A-10 041523038510000	R930005643	3	10
104	VSDN-10A-35 041523038535000	R930005644	3	10
	Relief			
105	VSPN-10A-20 041208038520000	R901097722	3	10
105	VSPN-10A-35 041208038535000	R901104103	3	10
	Relief, Spool Type			
106	VSPN-16A-20 041207032720000	R901104106	3	10
106	VSPN-16A-35 041207032735000	R901104107	3	10
	Pressure Reducing			
107	VRPR-10A-04-A 04950403850400A	R901102333	3	10
107	VRPR-10A-08-A 04950403850800A	R901109742	3	10
108	VRPX-10A-10 049307038510000	R901104118	3	10
108	VRPX-10A-20 049307038520000	R901106468	3	10
	Pilot Operated Check			
109	VSON-08U-G-00 043306102000000	R901104068	3	10

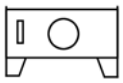
1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
	Counterbalance			
110	VBSN-08U-RS-1.5:1-P-20-A 045243312020000	R930006114	3	10
110	VBSN-08U-RS-1.5:1-P-35-A 045243312035000	R930006115	3	10
110	VBSN-08U-RS-3:1-10-A 045243032010000	R930006109	3	10
110	VBSN-08U-RS-3:1-20-A 045243032020000	R930006110	3	10
110	VBSN-08U-RS-3:1-35-A 045243032035000	R930006111	3	10
110	VBSN-08U-RS-8:1-20-A 045243102020000	R930006112	3	10
110	VBSN-08U-RS-8:1-35-A 045243102035000	R930006113	3	10
111	VBSN-08UU-RS-4:1-20 045242102020000	R930006107	3	10
111	VBSN-08UU-RS-9:1-20-A 045242372020000	R930006108	3	10
112	VBSN-12U-RS-2:1-P-20 045244428620000	R930006120	3	10
112	VBSN-12U-RS-2:1-P-35 045244428635000	R930006121	3	10
112	VBSN-12U-RS-4:1-20 045244038620000	R930006116	3	10
112	VBSN-12U-RS-4:1-35 045244038635000	R930006117	3	10
112	VBSN-12U-RS-8:1-20 045244108620000	R930006118	3	10
112	VBSN-12U-RS-8:1-35 045244108635000	R930006119	3	10
113	VBSP-08U-RS-3:1-20-A 045415032020000	R930006122	3	10
113	VBSP-08U-RS-3:1-35-A 045415032035000	R930006123	3	10
114	VBSP-12U-RS-4:1-20 045416038620000	R930006124	3	10
114	VBSP-12U-RS-4:1-35 045416038635000	R930006125	3	10
	Flow Control Valve			
115	VSTXX06CA.18X03 OD21010356	R901109366	3	10
116	VSTXX09CA.36X03 OD210103360000	R901109830	3	10
	Needle Restrictor			
117	040105038500000, STVU-10A	R930005606	3	10
118	040106035600000, STFU	R930001067	3	10
	Solenoid Operated Valve			
119	OD1310513000000 (Alt code OD1310511A0000)	R901126871	3	10
119	OD1310777000000 (Alt code OD1310771A0000)	R901113686	3	10
120	OD1431788000000 (Alt code OD1410782A0000)	R901113701	3	10
121	OD1432788000000 (Alt code OD1420782A0000)	R901113706	3	10
122	VEI8A2A06.18K05.3ANCC218S OD1505183AS000	R901083058	3	10
123	VEI8A2A06.18K06.1ANAC218S OD1506181AS000	R901091130	3	10
124	VEI8A2A09.36K05.3ANCC222S OD1505363AS000	R901090947	3	10
125	VEI8A2A09.36K06.1ANAC220S OD1506361AS000	R901080489	3	10
126	VEI8A2A12.75K05.3ANCC225S OD1505753AS000	R901094745	3	10
127	VEI8A2A12.75K06.1ANAC225S OD1506751AS000	R901095953	3	10
	Inlet Plate-Basic			
128	TA0056	R987271816	3	10
	Inlet Plate-Relief & Dump			
129	TA05562P0000A	R987271843	3	10
	4/3, 4/2 Directional Valve			
130	L8010B201000030	R933002825	3	10
130	L8010E201000030	R933003504	3	10
131	L8011B201000030	R933002824	3	10
131	L8011E201000030	R933003457	3	10
132	L8080B2S6000030	R933003627	3	10

1) *"Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).*

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
132	L8080E2I6000030	R933009115	3	10
130	L8410B201000030	R933003509	3	10
130	L8410E201000030	R933003600	3	10
131	L8411B201000030	R933003616	3	10
131	L8411E201000030	R933003617	3	10
132	L8480B2S6000030	R933003633	3	10
132	L8480E2I6000030	R933009116	3	10
133	L884A00AB010030	R987271883	3	10
134	L886A020AS20030	R987273979	3	10
	Exit Plate-Basic			
135	TC0000	R987271812	3	10
	Power Packs and Motor Pump Groups 			
	Power Packs, Fixed Displacement			
136	PP10/G2005/2BM1	R978931253	3	10
136	PP10/G2005/3BM1	R978931277	3	10
136	PP10/G2005/5BM1	R978931297	3	10
136	PP10/G2008/2BM1	R978931426	3	10
136	PP10/G2008/3BM1	R978931450	3	10
136	PP10/G2008/5BM1	R978931470	3	10
136	PP10/G2008/7.5BM1	R978931490	3	10
136	PP20/G2011/10BM1	R978932366	3	10
136	PP20/G2011/3BM1	R978932408	3	10
136	PP20/G2011/5BM1	R978932429	3	10
136	PP20/G2011/7.5BM1	R978932451	3	10
136	PP20/G2016/10BM1	R978932508	3	10
136	PP20/G2016/5BM1	R978932614	3	10
136	PP20/G2016/7.5BM1	R978932635	3	10
136	PP5/G2004/2BM1	R978932910	3	10
136	PP5/G2004/3BM1	R978932932	3	10
136	PP5/G2004/5BM1	R978932952	3	10
136	PP5/G2005/2BM1	R978933040	3	10
136	PP5/G2005/3BM1	R978933062	3	10
136	PP5/G2005/5BM1	R978933083	3	10
	Close-Coupled Motor Pump Groups			
137	MPGB002HTYZ4DEOFS1HAZPF12004K1NN	R978020520	3	10
137	MPGB002HTYZ4DEOFS1HAZPF12005K1NN	R978020524	3	10
137	MPGB002HTYZ4DEOFS1HAZPF12008K1NN	R978020530	3	10
137	MPGB003HTYZ4DEOFS1HAZPF12004K1NN	R978020521	3	10
137	MPGB003HTYZ4DEOFS1HAZPF12005K1NN	R978020525	3	10
137	MPGB003HTYZ4DEOFS1HAZPF12008K1NN	R978020531	3	10
137	MPGB003HTYZ4DEOFS1HAZPF12011K1NN	R978020537	3	10
137	MPGB005HTYZ4DEOFS1HAZPF12004K1NN	R978020522	3	10
137	MPGB005HTYZ4DEOFS1HAZPF12005K1NN	R978020526	3	10
137	MPGB005HTYZ4DEOFS1HAZPF12008K1NN	R978020532	3	10
137	MPGB005HTYZ4DEOFS1HAZPF12011K1NN	R978020538	3	10

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137	MPGB005HTYZ4DEOFS1HAZPF12016K1NN	R978020542	3	10
137	MPGB010HTYZ4DEOFS1HAZPF12011K1NN	R978020732	3	10
137	MPGB010HTYZ4DEOFS1HAZPF12016K1NN	R978020544	3	10
137	MPGB7.5HTYZ4DEOFS1HAZPF12008K1NN	R978020533	3	10
137	MPGB7.5HTYZ4DEOFS1HAZPF12011K1NN	R978020731	3	10
137	MPGB7.5HTYZ4DEOFS1HAZPF12016K1NN	R978020543	3	10
	Close-Coupled Motors			
138	MTRB10H1450/1800R215TYZ50/60HZ F1 SAE A	R978020358	3	5
138	MTRB2H1450/1800R145TYZ50/60HZ F1 SAE A	R978020354	3	5
138	MTRB3H1450/1800R145TYZ50/60HZ F1 SAE A	R978020355	3	5
138	MTRB5H1450/1800R184TYZ50/60HZ F1 SAE A	R978020356	3	5
138	MTRB7.5H1450/1800R213TYZ50/60HZ F1 SAE A	R978020357	3	5
	Pre-assembled Filter/Cooler			
139	MFC3HLB1.0H4/DEOFAF/011030S/09003AJ	R978026410	3	5
139	MFC3HLB1.0H4/DEOFAF/011030S/09003JJ	R978026411	3	5
139	MFC3HLB1.0H4/DEOFAF/011030S/09010AJ	R978052055	3	10
139	MFC3HLB1.0H4/DEOFAF/011030S/09010JJ	R978052056	3	10
139	MFC3HLB1.0H4/DEOFAF/016030S/09003AJ	R978026412	3	5
139	MFC3HLB1.0H4/DEOFAF/016030S/09003JJ	R978026413	3	5
139	MFC3HLB1.0H4/DEOFAF/016030S/09010AJ	R978052057	3	10
139	MFC3HLB1.0H4/DEOFAF/016030S/09010JJ	R978052058	3	10
139	MFC3HLB2.0H4/DEOFAF/022030S/09003AJ	R978026418	3	5
139	MFC3HLB2.0H4/DEOFAF/022030S/09003JJ	R978026419	3	5
139	MFC3HLB2.0H4/DEOFAF/022030S/09010AJ	R978052061	3	10
139	MFC3HLB2.0H4/DEOFAF/022030S/09010JJ	R978052062	3	10
139	MFC3HLB2.0H4/DEOFAF/028030S/09003AJ	R978026420	3	10
139	MFC3HLB2.0H4/DEOFAF/028030S/09003JJ	R978026421	3	10
139	MFC3HLB2.0H4/DEOFAF/028030S/09010AJ	R978052063	3	10
139	MFC3HLB2.0H4/DEOFAF/028030S/09010JJ	R978052064	3	10
139	MFC3HRB1.0H4/DEOFAF/011030S/09003AJ	R978026374	3	10
139	MFC3HRB1.0H4/DEOFAF/011030S/09003JJ	R978026375	3	10
139	MFC3HRB1.0H4/DEOFAF/011030S/09010AJ	R978052031	3	10
139	MFC3HRB1.0H4/DEOFAF/011030S/09010JJ	R978052032	3	10
139	MFC3HRB1.0H4/DEOFAF/016030S/09003AJ	R978026376	3	10
139	MFC3HRB1.0H4/DEOFAF/016030S/09003JJ	R978026377	3	10
139	MFC3HRB1.0H4/DEOFAF/016030S/09010AJ	R978052033	3	10
139	MFC3HRB1.0H4/DEOFAF/016030S/09010JJ	R978052034	3	10
139	MFC3HRB2.0H4/DEOFAF/022030S/09003AJ	R978026382	3	10
139	MFC3HRB2.0H4/DEOFAF/022030S/09003JJ	R978026383	3	5
139	MFC3HRB2.0H4/DEOFAF/022030S/09010AJ	R978052037	3	10
139	MFC3HRB2.0H4/DEOFAF/022030S/09010JJ	R978052038	3	10
139	MFC3HRB2.0H4/DEOFAF/028030S/09003AJ	R978026384	3	5
139	MFC3HRB2.0H4/DEOFAF/028030S/09003JJ	R978026385	3	5
139	MFC3HRB2.0H4/DEOFAF/028030S/09010AJ	R978052039	3	10
139	MFC3HRB2.0H4/DEOFAF/028030S/09010JJ	R978052040	3	10
139	MFC3VLB1.0H4/DEOFAF/011030S/09003AJ	R978026338	3	10
139	MFC3VLB1.0H4/DEOFAF/011030S/09003JJ	R978026339	3	10

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139	MFC3VLB1.0H4/DEOFAF/011030S/09010AJ	R978052007	3	10
139	MFC3VLB1.0H4/DEOFAF/011030S/09010JJ	R978052008	3	10
139	MFC3VLB1.0H4/DEOFAF/016030S/09003AJ	R978026340	3	10
139	MFC3VLB1.0H4/DEOFAF/016030S/09003JJ	R978026341	3	10
139	MFC3VLB1.0H4/DEOFAF/016030S/09010AJ	R978052009	3	10
139	MFC3VLB1.0H4/DEOFAF/016030S/09010JJ	R978052010	3	10
139	MFC3VLB2.0H4/DEOFAF/022030S/09003AJ	R978026346	3	10
139	MFC3VLB2.0H4/DEOFAF/022030S/09003JJ	R978026347	3	10
139	MFC3VLB2.0H4/DEOFAF/022030S/09010AJ	R978052013	3	10
139	MFC3VLB2.0H4/DEOFAF/022030S/09010JJ	R978052014	3	10
139	MFC3VLB2.0H4/DEOFAF/028030S/09003AJ	R978026348	3	10
139	MFC3VLB2.0H4/DEOFAF/028030S/09003JJ	R978026349	3	10
139	MFC3VLB2.0H4/DEOFAF/028030S/09010AJ	R978052015	3	10
139	MFC3VLB2.0H4/DEOFAF/028030S/09010JJ	R978052016	3	10
139	MFC3VRB1.0H4/DEOFAF/011030S/09003AJ	R978026302	3	10
139	MFC3VRB1.0H4/DEOFAF/011030S/09003JJ	R978026303	3	10
139	MFC3VRB1.0H4/DEOFAF/011030S/09010AJ	R978051983	3	10
139	MFC3VRB1.0H4/DEOFAF/011030S/09010JJ	R978051984	3	10
139	MFC3VRB1.0H4/DEOFAF/016030S/09003AJ	R978026304	3	10
139	MFC3VRB1.0H4/DEOFAF/016030S/09003JJ	R978026305	3	10
139	MFC3VRB1.0H4/DEOFAF/016030S/09010AJ	R978051985	3	10
139	MFC3VRB1.0H4/DEOFAF/016030S/09010JJ	R978051986	3	10
139	MFC3VRB2.0H4/DEOFAF/022030S/09003AJ	R978026310	3	10
139	MFC3VRB2.0H4/DEOFAF/022030S/09003JJ	R978026311	3	10
139	MFC3VRB2.0H4/DEOFAF/022030S/09010AJ	R978051989	3	10
139	MFC3VRB2.0H4/DEOFAF/022030S/09010JJ	R978051990	3	10
139	MFC3VRB2.0H4/DEOFAF/028030S/09003AJ	R978026312	3	10
139	MFC3VRB2.0H4/DEOFAF/028030S/09003JJ	R978026313	3	10
139	MFC3VRB2.0H4/DEOFAF/028030S/09010AJ	R978051991	3	10
139	MFC3VRB2.0H4/DEOFAF/028030S/09010JJ	R978051992	3	10
	 **Accumulators**			
	Bladder-Type Accumulators			
140	ACCUM CHARGE KIT HAB-5X 3K AND 5K	R978046091	3	10
140	ACCUM CLAMP HAB-5X 10-50L 3K PSI	R978044766	3	10
140	ACCUM GAUGE BLK HAB-5X 10-50L ASME 3KPSI	R978048584	3	10
140	ACCUM GAUGE BLK HAB-5X 10-50L ASME 5KPSI	R978048583	3	10
140	CLAMPING BANDTIGHT 110-120 MM	1531316021	3	10
140	CLAMPING BANDTIGHT 160-170 MM	1531316022	3	10
140	HAB10-207-5X/1U09G-6N111-ASME	R978045724	3	10
140	HAB1-207-5X/1U14G-6N111-ASME	R978045719	3	10
140	HAB20-207-5X/1U09G-6N111-ASME	R978045736	3	10
140	HAB35-207-5X/1U09G-6N111-ASME	R978045748	3	10
140	HAB4-207-5X/1U08G-6N111-ASME	R978045721	3	10
140	HAB50-207-5X/1U09G-6N111-ASME	R978045766	3	10

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Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
		Diaphragm-Type Accumulators			
141		ACCUM CHARGE KIT FOR HAD UNITS WITH GAS VALVE TYPE 2	0538103013	3	10
141		HAD0,075-250-1X/0U12C-2N111-USA	0531610632	3	10
141		HAD0,16-250-1X/0F02A-2N111-USA	0531600600	3	10
141		HAD0,16-250-1X/0U12C1-2N111-USA	0531600611	3	10
141		HAD0,35-160-1X/0F08A-2N111-USA	0531601533	3	10
141		HAD0,35-160-1X/0U04A-2N111-USA	0531601549	3	10
141		HAD0,7-207-1X/0F08A-2N111-USA	0531602581	3	10
141		HAD1,4-207-1X/0U04C-2N111-USA	0531603501	3	10
141		HAD2,8-207-1X/0F08C-2N111-USA	0531613500	3	10
		Filtration Systems			
		Return Line Filters & Filter Elements – 10 TEN			
142		1.0040 H10XL-A00-0-M	R928005837	5	1
142		1.0063 H10XL-A00-0-M	R928005855	5	1
142		1.0063 H16XL-A00-0-M	R928028571	5	1
142		1.0100 H10XL-A00-0-M	R928005873	5	1
142		1.0100 H16XL-A00-0-M	R928028572	5	1
142		10TEN0040-H10XLA00-V2.2-M-U4	R928040132	3	10
142		10TEN0040-H10XLA00-V2.2-M-U4-F	R928036298	3	10
142		10TEN0063-H10XLA00-V2.2-M-U9	R928040133	3	10
142		10TEN0063-H10XLA00-V2.2-M-U9-F	R928036321	3	10
142		10TEN0100-H10XLA00-V2.2-M-U9	R928040134	3	10
142		10TEN0100-H10XLA00-V2.2-M-U9-F	R928036322	3	10
142		ACC-R-10TEN0040-0100-R110	R928038744	3	10
142		ACC-R-10TEN0040-0100-R150	R928038745	3	10
142		ACC-R-10TEN0040-0100-R250	R928038746	3	10
142	***new***	M010 0-6 BAR	R928019224	5	5
142		Plug-in connector for WE type indicator	R900031155	3	5
142		WE-1SP-M12X1	R928028409	3	5
142		WE-2SP-M12X1	R928028410	3	5
142		WE-2SPSU-M12X1	R928028411	3	5
		Return Line Filters & Filter Elements – 10 FRE(N)			
143		1.0160 H10XL-A00-0-M	R928005891	5	1
143		1.0250 H10XL-A00-0-M	R928005927	5	1
143		1.0400 H10XL-A00-0-M	R928005963	5	1
143		1.0630 H10XL-A00-0-M	R928005999	5	1
143		1.1000 H10XL-A00-0-M	R928006035	5	1
143		10 FRE 0015-H10XL-A00-07V2.2-U6M00	R928038396	3	10
143		10 FRE 0018-H10XL-A00-07V2.2-U6M00	R928038395	3	10
143		10 FREN 0160-H10XL-A00-07V2.2-U6M00	R928022766	3	10
143		10 FREN 0250-H10XL-A00-07V2.2-U6M00	R928022767	3	10
143		10 FREN 0400-H10XL-A00-07V2.2-00M00	R928019463	3	10
143		10 FREN 0630-H10XL-A00-07V2.2-00M00	R928019478	3	10
143		10 FREN 1000-H10XL-A00-07V2.2-00M00	R928019465	3	10

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143	Plug-in connector for WE type indicator	R900031155	3	5
143	WE-1SP-M12Z1	R928028409	3	5
143	WE-2SP-M12X1	R928028410	3	5
143	WE-2SPSU-M12X1	R928028411	3	5
	Inline Filter with Filter Element – 50LEO			
144	50LE0130-H10XLA00-V5,0-M-U9	R928050745	3	10
144	50LE0130-H3XLA00-V5,0-M-U9	R928050772	3	10
144	50LE0150-H10XLA00-V5,0-M-U9	R928050824	3	10
144	50LE0150-H3XLA00-V5,0-M-U9	R928050852	3	10
	Inline Filter with Filter Element – 110LEN, 110LEO			
145	110LE0150-H10XLA00-V5,0-M-U9	R928046927	3	10
145	110LEN0040-H10XLA00-V5,0-M-U4	R928046923	3	10
145	110LEN0063-H10XLA00-V5,0-M-U4	R928046924	3	10
145	110LEN0100-H10XLA00-V5,0-M-U4	R928046925	3	10
145	110LEN0160-H10XLA00-V5,0-M-U6	R928050465	3	10
145	110LEN0250-H10XLA00-V5,0-M-U6	R928046929	3	10
145	110LEN0400-H10XLA00-V5,0-M-U6	R928046930	3	10
	Pressure Line Filters & Filter Elements – 245 LE(N)			
146	2.0040 H10XL-B00-0-M	R928006656	5	1
146	2.0063 H10XL-B00-0-M	R928006710	5	1
146	2.0100 H10XL-B00-0-M	R928006764	5	1
146	2.0130 H10XL-B00-0-M	R928022312	5	1
146	2.0150 H10XL-B00-0-M	R928022321	5	1
146	2.0160 H10XL-B00-0-M	R928006818	5	1
146	2.0250 H10XL-B00-0-M	R928006872	5	1
146	2.0400 H10XL-B00-0-M	R928006926	5	1
146	245 LE 0130-H10XLA00-V5.0-M-U5	R928030731	3	10
146	245 LE 0150-H10XLA00-V5.0-M-U5	R928030732	3	10
146	245 LEN 0040-H10XLA00-V5.0-M-U3	R928030728	3	10
146	245 LEN 0063-H10XLA00-V5.0-M-U4	R928030729	3	10
146	245 LEN 0100-H10XLA00-V5.0-M-U4	R928030730	3	10
146	245 LEN 0160-H10XLA00-V5.0-M-U6	R928030733	3	10
146	245 LEN 0250-H10XLA00-V5.0-M-U6	R928030734	3	10
146	245 LEN 0400-H10XLA00-V5.0-M-U6	R928030735	3	10
146	Plug-in connector for WE type indicator	R900031155	3	5
146	WE-1SP-M12X1	R928028409	3	5
146	WE-2SP-M12X1	R928028410	3	5
146	WE-2SPSU-M12X1	R928028411	3	5
	Line Filter – 350 LEN			
147	2.0040H10XL-A00-0-M	R928006647	5	1
147	2.0063H10XL-A00-0-M	R928006701	5	1
147	2.0100H10XL-A00-0-M	R928006755	5	1
147	2.0130H10XL-A00-0-M	R928022276	5	1
147	2.0150H10XL-A00-0-M	R928022285	5	1
147	2.0160H10XL-A00-0-M	R928006809	5	1
147	2.0250H10XL-A00-0-M	R928006863	5	1

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Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
147	2.0400H10XL-A00-0-M	R928006917	5	1
147	2.0630H10XL-A00-0-M	R928006971	5	1
147	2.1000H10XL-A00-0-M	R928007025	5	1
147	350LE0130-H10XLA00-V5,0-M-U5	R928033731	3	10
147	350LE0150-H10XLA00-V5,0-M-U5	R928033732	3	10
147	350LEN0040-H10XLA00-V5,0-M-U3	R928033728	3	10
147	350LEN0063-H10XLA00-V5,0-M-U4	R928033729	3	10
147	350LEN0100-H10XLA00-V5,0-M-U4	R928033730	3	10
147	350LEN0160-H10XLA00-V5,0-M-U6	R928033733	3	10
147	350LEN0250-H10XLA00-V5,0-M-U6	R928033734	3	10
147	350LEN0400-H10XLA00-V5,0-M-U6	R928033735	3	10
147	350LEN0630-H10XLA00-V5,0-M-S8	R928034512	3	10
147	350LEN1000-H10XLA00-V5,0-M-S8	R928034513	3	10
	Manifold Mount Pressure Filters & Filter Elements – 245 PSF(N)			
148	2.0040 H10XL-B00-0-M	R928006656	5	1
148	2.0063 H10XL-B00-0-M	R928006710	5	1
148	2.0100 H10XL-B00-0-M	R928006764	5	1
148	2.0130 H10XL-B00-0-M	R928022312	5	1
148	2.0150 H10XL-B00-0-M	R928022321	5	1
148	2.0160 H10XL-B00-0-M	R928006818	5	1
148	2.0250 H10XL-B00-0-M	R928006872	5	1
148	2.0400 H10XL-B00-0-M	R928006926	5	1
148	245 PSF 0130-H10XLB00-V5.0-M	R928024395	3	10
148	245 PSF 0150-H10XLB00-V5.0-M	R928024396	3	10
148	245 PSFN 0040-H10XLB00-V5.0-M	R928024392	3	10
148	245 PSFN 0063-H10XLB00-V5.0-M	R928024393	3	10
148	245 PSFN 0100-H10XLB00-V5.0-M	R928024394	3	10
148	245 PSFN 0160-H10XLB00-V5.0-M	R928024397	3	10
148	245 PSFN 0250-H10XLB00-V5.0-M	R928024398	3	10
148	245 PSFN 0400-H10XLB00-V5.0-M	R928024399	3	10
148	Plug-in connector for WE type indicator	R900031155	3	5
148	WE-1SP-M12X1	R928028409	3	5
148	WE-2SP-M12X1	R928028410	3	5
148	WE-2SPSU-M12X1	R928028411	3	5
	Manifold Mount Pressure Filters & Filter Elements – 350 PSF(N)			
149	2.0130 H10XL-B00-0-M	R928022312	5	1
149	2.0150 H10XL-B00-0-M	R928022321	5	1
149	2.0160 H10XL-B00-0-M	R928006818	5	1
149	2.0250 H10XL-B00-0-M	R928006872	5	1
149	2.0400 H10XL-B00-0-M	R928006926	5	1
149	2.0630 H10XL-B00-0-M	R928006980	5	1
149	2.1000 H10XL-B00-0-M	R928007034	5	1
149	350 PSF 0130-H10XLB00-V5.0-M	R928026493	3	10
149	350 PSF 0150-H10XLB00-V5.0-M	R928026494	3	10
149	350 PSFN 0160-H10XLB00-V5.0-M	R928026495	3	10
149	350 PSFN 0250-H10XLB00-V5.0-M	R928026496	3	10

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149	350 PSFN 0400-H10XLB00-V5.0-M	R928026497	3	10
149	350 PSFN 0630-H10XLB00-V5.0-M	R928026498	3	10
149	350 PSFN 1000-H10XLB00-V5.0-M	R928026499	3	10
149	Plug-in connector for WE type indicator	R900031155	3	5
149	WE-1SP-M12X1	R928028409	3	5
149	WE-2SP-M12X1	R928028410	3	5
149	WE-2SPSU-M12X1	R928028411	3	5
	Manifold Mount Pressure Filters & Filter Elements – 450 PBFN			
150	2.0040 H3XL-B00-0-M	R928006654	5	1
150	2.0063 H3XL-B00-0-M	R928006708	5	1
150	2.0100 H3XL-B00-0-M	R928006762	5	1
150	2.0130 H3XL-B00-0-M	R928022310	5	1
150	2.0150 H3XL-B00-0-M	R928022319	5	1
150	2.0160 H3XL-B00-0-M	R928006816	5	1
150	2.0250 H3XL-B00-0-M	R928006870	5	1
150	2.0400 H3XL-B00-0-M	R928006924	5	1
150	2.0630 H3XL-B00-0-M	R928006978	5	1
150	2.1000 H3XL-B00-0-M	R928007032	5	1
150	450 PBFN 0040-H3XLB00-V5.0-M	R928023331	3	10
150	450 PBFN 0063-H3XLB00-V5.0-M	R928023332	3	10
150	450 PBFN 0100-H3XLB00-V5.0-M	R928023333	3	10
150	450 PBFN 0130-H3XLB00-V5.0-M	R928023334	3	10
150	450 PBFN 0150-H3XLB00-V5.0-M	R928023335	3	10
150	450 PBFN 0160-H3XLB00-V5.0-M	R928023336	3	10
150	450 PBFN 0250-H3XLB00-V5.0-M	R928023337	3	10
150	450 PBFN 0400-H3XLB00-V5.0-M	R928023338	3	10
150	450 PBFN 0630-H3XLB00-V5.0-M	R928023339	3	10
150	450 PBFN 1000-H3XLB00-V5.0-M	R928023340	3	10
150	Plug-in connector for WE type indicator	R900031155	3	5
150	WE-1SP-M12X1	R928028409	3	5
150	WE-2SP-M12X1	R928028410	3	5
150	WE-2SPSU-M12X1	R928028411	3	5
	Desiccant Air Breather			
151	Adapter G 1-1/4 female to male G 1	R978918035	3	10
151	BFSK 130 H10XL-S00-000-00M0	R928018782	3	10
151	BFSK 45/21 H10XL-S00-0-0000M0	R928018776	3	10
151	BFSK 45/21 H3XL-S00-0-0000M0	R928035220	3	10
151	BFSK 60/21 H10XL-S00-000-00M0	R928018778	3	10
151	BFSK 90 H10XL-S00-000-00M0	R928018780	3	10
	Breather Filters			
152	BF 7 SL 130 P10-S00-000-00M00	R928018790	3	10
152	BF 7 SL 45/21 P10-S00-000-00M00	R928018784	3	10
152	BF 7 SL 90 P10-S00000-00M00	R928018787	3	10
152	BFS20 P10-F00	R928022920	3	10
152	FEF 1 P10 M00 -0056 (directly interchangeable w/ ELF P 3 F 10 W 1.X)	R928039092	3	10
152	FEF0 S10-F00	R928018808	3	10

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152		FEF1 P10-F00	R928018811	3	10
152		FEF1 P5-F00	R928019973	3	10
152		TLFI 5-65H10XL-S00-000-00M00	R928018828	3	10
152		TLFI 5-65H3XL-S00-000-00M00	R928041318	3	10
152		TLFI 6-80H10XL-S00-000-00M00	R928018831	3	10
152		TLFIII 5-65H10XL-S00-000-00M00	R928018870	3	10
152		TLFIII 5-65H3XL-S00-000-00M00	R928036735	3	10
152		TLFIII 6-80H10XL-S00-000-00M00	R928018873	3	10
		Popular Cross-over Filter Elements			
153		1.0045 G25-A00-0-M	R928005636	5	1
153		1.0045 H10XL-A00-0-M	R928005639	5	1
153		1.0045 H20XL-A00-0-M	R928005640	5	1
153		1.0060 G25-A00-0-M	R928005672	5	1
153	***new***	1.1401 G40-A00-0-M	R928045173	5	1
153		10.110LA H10XL-A00-6-M SO3000	R928017483	5	1
153		10.1300LA H10XL-A00-6-M SO3000	R928017667	5	1
153		10.1300LA H6XL-A00-6-M SO3000	R928017668	5	1
153		10.160LA H10XL-A00-6-M SO3000	R928017506	5	1
153		10.240LA H10XL-A00-6-M SO3000	R928017529	5	1
153		10.2600LA H10XL-A00-0-M SO3000	R928037731	5	1
153		10.330LA H10XL-A00-6-M SO3000	R928017552	5	1
153		10.330LA H10XL-A00-B6-M SO3000	R928035218	5	1
153		10.500LA H10XL-A00-6-M SO3000	R928017575	5	1
153		10.660LA H10XL-A00-6-M SO3000	R928017598	5	1
153		16.7400/R H20XL-S00-0-M	R928016662	5	1
153		16.7500/R P10-S00-0-M	R928019959	5	1
153		16.7500/S H10XL-S00-0-M	R928016677	5	1
153		16.7500/S H3XL-S00-0-M	R928016673	5	1
153		16.8304/X H6XL-S00-0-V	R928016729	5	1
153	***new***	16.8700/R H10XL-S00-0-M	R928016804	5	1
153		16.9600/T H6XL-E00-0-M	R928016950	5	1
153	***new***	2.0005 G40-A00-0-V	R928045584	5	1
153		2.0020 G25-A00-0-M	R928006374	5	1
153	***new***	2.0020 H6XL-A00-0-M	R928006376	5	1
153	***new***	2.0063 H3XL-A00-0-M	R928006699	5	1
153		2.0100 H10XL-A00-0-M	R928006755	5	1
153		2.0100 H10XL-B00-0-M	R928006764	5	1
153		2.0250 H3XL-A00-0-M	R928006861	5	1
153	***new***	2.0250 H6XL-A00-0-M	R928006862	5	1
153		2.0250 H6XL-B00-0-M	R928006871	5	1
153	***new***	2.56 P10-A00-0-M	R928019029	5	1
153		2.90 H10XL-C00-0-M	R928025500	5	1
153	***new***	20.750 P25-S00-6-M	R928046179	5	1
153	***new***	4.06 P10-A00-0-M	R928022781	5	1
153	***new***	4.10 G200-A00-0-M	R928028012	5	1
153	***new***	62.0056K H10XL-J00-0-V	R902603750	5	1

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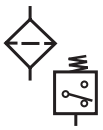
153		62.0056K H20XL-J00-0-V	R902603298	5	1
153		62.0125K H20XL-J00-0-V	R902603243	5	1
153		62.0180K H20XL-J00-0-V	R902603004	5	1
153	***new***	80.130 H1XL-S00-0-M	R928037484	5	1
153		80.130 H6XL-S00-0-M	R928019201	5	1
153	***new***	80.30/20 P10-S00-0-V	R928028010	5	1
153	***new***	80.45/21 VS60-S00-0-M	R928028019	5	1
153	***new***	80.90 H10XL-S00-0-M	R928016614	5	1
153	***new***	80.90 P10-S00-0-M	R928016612	5	1
153		84.60 H10XL-S00-4-M	R928028556	5	1
153		9.110LA H10XL-A00-0-M SO3000	R928017144	5	1
153		9.110LA H10XL-A00-0-V SO3000	R928022425	5	1
153		9.110LA H3XL-F00-0-M SO3000	R928017154	5	1
153		9.110LA H6XL-A00-0-M SO3000	R928017145	5	1
153		9.160LA H10XL-A00-0-M SO3000	R928017210	5	1
153		9.160LA H3XL-F00-0-M SO3000	R928017220	5	1
153		9.240LA H10XL-A00-0-M SO3000	R928017243	5	1
153		9.240LA H10XL-F00-0-M SO3000	R928017251	5	1
153		9.240LA H3XL-F00-0-M SO3000	R928017253	5	1
153		9.280LA H10XL-A00-0-M SO3000	R928017276	5	1
153		9.280LA H20XL-A00-0-M SO3000	R928017275	5	1
153		9.280LA H6XL-A00-0-M SO3000	R928017277	5	1
153		9.30LA H20XL-F00-0-M SO3000	R928017085	5	1
153		9.30LA H3XL-F00-0-M SO3000	R928017088	5	1
153		9.330LA H10XL-A00-0-M SO3000	R928017309	5	1
153		9.330LA H10XL-F00-0-M SO3000	R928017317	5	1
153		9.330LA H3XL-F00-0-M SO3000	R928017319	5	1
153		9.330LA H6XL-F00-0-M SO3000	R928017318	5	1
153		9.500LA H20XL-A00-0-M SO3000	R928017374	5	1
153	***new***	9.60 G25-A00-0-V-0024	R928048442	5	1
153		9.60LA H10XL-A00-0-M SO3000	R928017111	5	1
153		9.60LA H10XL-F00-0-M SO3000	R928017119	5	1
153		9.60LA H3XL-F00-0-M SO3000	R928017121	5	1
153		9.660LA H10XL-A00-0-M SO3000	R928017408	5	1
153		9.660LA H10XL-F00-0-M SO3000	R928017416	5	1
153		9.660LA H20XL-A00-0-M SO3000	R928017407	5	1
153		9.660LA H6XL-F00-0-M SO3000	R928017417	5	1
153		99.183677 MB15-C00-0-M	R928022726	5	1
		Accessories 			
		Hydroelectric Pressure Switch			
155		HED 8 OA-2X/100K14	R901102706	3	10
155		HED 8 OA-2X/100K14/12	R901106257	3	10
155		HED 8 OA-2X/200K14/12	R901106512	3	10

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155	HED 8 OA-2X/350K14/12	R901107091	3	10
155	HED 8 OA-2X/50K14	R901101698	3	10
155	HED 8 OA-2X/50K14/12	R901107793	3	10
155	HED 8 OH-2X/100K14	R901102360	3	10
155	HED 8 OH-2X/200K14	R901099808	3	10
155	HED 8 OH-2X/200K14S	R901102362	3	10
155	HED 8 OH-2X/350K14	R901101640	3	10
155	HED 8 OH-2X/350K14S	R901102713	3	10
155	HED 8 OH-2X/50K14	R901102349	3	10
155	HED 8 OP-2X/100K14	R901102747	3	10
155	HED 8 OP-2X/100K14S	R901106509	3	10
155	HED 8 OP-2X/350K14	R901106453	3	10
155	HED 8 OP-2X/350K14AS	R901091138	3	10
	Rotary Angle Sensor			
156	ASSEMBLY KIT VT-SWA-1-1X/SYDFEE &	R900868651	5	5
	Subplates, Bolt Kits, & Electric Connectors			
157	3P RZ5 M24 240V	R901017025	10	10
157	3P RZ55 24	R900842566	10	10
157	3P RZ55L 24-2 SPEZ&	R900057455	10	10
157	3P Z4 M SW	R901017011	10	10
157	3P Z45 B GDM201	R900011039	10	10
157	3P Z55L 12-240V	R900057453	10	10
157	3P Z5L M12 240V	R901017022	10	10
157	3P Z5L1 M 24V SPEZ	R901017026	10	10
157	4P Z24M12X1 +3MSPEZ	R900064381	10	10
157	7P Z31 BF6-3PG11KSPEZ	R900021267	10	10
157	7P Z31 BF63PG11M SPEZ	R900223890	10	10
157	BK-(4) 1/4X20X1-1/2	R978833366	3	10
157	BK-(4) 1/4X20X1-3/4	R978833367	3	10
157	BK-(4) 10X24X2	R978833365	3	10
157	BK-(4) 3/8X16X2-1/4-(2)1/4X20X2-1/4 SHCS	R978833395	3	10
157	BK-(6) 1/2X13X2-1/2	R978833387	3	10
157	G 341/12	R900341065	3	10
157	G 342/12	R900455128	5	10
157	G 646/12	R900503115	5	10
157	MS CONNECTOR FOR OBE VALVES	R978713598	3	10
	Coils & Handnuts-Directional Valves			
158	45-K4K-30G12 01	R901333224	3	10
158	GZ45-01M.N. SPEZ	R900029571	3	10
158	GZ45-3 12V	R900021462	3	10
158	GZ45-3 24V	R900021463	3	10
158	GZ45-4 24V	R900021389	3	10
158	GZ45-4 96V	R900021392	3	10
158	GZ45C-01 SPEZ	R900029574	3	10
158	GZ63 M.VN.3K	R900019841	3	10
158	GZ63-3 12V	R900207929	3	10

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158	GZ63-3 24V	R900217812	3	10
158	GZ63-4 12V K4K	R900019792	3	10
158	GZ63-4 24V	R900019793	3	10
158	WZ45-.-.M.N. SPEZ	R900020169	3	10
158	WZ45-3 110V &	R900021464	3	10
158	WZ45-4-L110V-50/60HZ&	R900020175	3	10
158	WZ45-4-L110V50HZ+120V60HZ	R978839349	3	10
158	WZ45-4-MVN110V50/60+&	R900545268	3	10
158	WZ65-.-LM.VN. SPEZ	R900019840	3	10
158	WZ65-0-L110V-50/60HZ&	R900019801	3	10
158	WZ65-3 110V-50/ &	R900219602	3	10
158	WZ65-4-L110V-50/60HZ&	R900019816	3	10
158	**Rod Clevises for Cylinders**			
158	ROD CLEVIS BDC-05 CD=1/2 KK=7/16-20	R978935057	3	10
158	ROD CLEVIS BDC-07 CD=3/4 KK=3/4-16	R978935058	3	5
158	ROD CLEVIS BDC-07M CD=3/4 KK=3/4-16	R978935059	3	5
158	ROD CLEVIS BDC-10 CD=1 KK=1-14	R978935060	3	5
158	ROD CLEVIS BDC-13 CD=1 3/8 KK=1 1/4-12	R978935061	3	5
158	ROD CLEVIS BDC-17 CD=1 3/4 KK=1 1/2-12	R978935062	3	5
	Alignment Couplers for Cylinders			
160	CPL ALIGNMENT 1000F A=1-14	R978935085	3	5
160	CPL ALIGNMENT 1250F A=1 1/4-12	R978935086	3	5
160	CPL ALIGNMENT 1500F A=1 1/2-12	R978935087	3	5
160	CPL ALIGNMENT 437F A= 7/16-20	R978935082	3	5
160	CPL ALIGNMENT 500F A=1/2-20	R978935080	3	5
160	CPL ALIGNMENT 750F A=3/4-16	R978935083	3	5
	Rod Eyes for Cylinders			
161	ROD EYE BDE-05 CD=1/2 KK=7/16-20	R978935066	3	5
161	ROD EYE BDE-07 CD=3/4 KK=3/4-16	R978935067	3	5
161	ROD EYE BDE-10 CD=1 KK=1-14	R978935068	3	5
161	ROD EYE BDE-13 CD=1 3/8 KK=1 1/4-12	R978935070	3	5
161	ROD EYE BDE-17 CD=1 3/4 KK=1 1/2-12	R978935071	3	5
161	ROD EYE SPH RES-05 CD=.500 KK=7/16-20	R978935075	3	5
161	ROD EYE SPH RES-07 CD=.750 KK=3/4-16	R978935076	3	5
161	ROD EYE SPH RES-10 CD=1.000 KK=1-14	R978935077	3	5
161	ROD EYE SPH RES-13 CD=1.375 KK=1 1/4-12	R978935078	3	5
161	ROD EYE SPH RES-17 CD=1.750 KK=1 1/2-12	R978935079	3	5
	Pivot Pins for Cylinders			
162	PIVOT PINS GROOVED BDP-05G CB=0.500	R978935026	3	5
162	PIVOT PINS GROOVED BDP-07G CB=0.750	R978935027	3	5
162	PIVOT PINS GROOVED BDP-10G CB=1.000	R978935028	3	5
162	PIVOT PINS GROOVED BDP-13G CB=1.375	R978935029	3	5
162	PIVOT PINS GROOVED BDP-17G CB=1.750	R978935030	3	5
162	RET RG 0.500X0.468X0.041	R978000049	3	5
162	RET RG 1.000X0.940X0.048	R978000190	3	5
162	RET RG 1.375X1.290X0.056	R978000191	3	5

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	Bodies & Mounting Hardware			
163	CB08-2N-A/S06	R978032340	3	10
163	CB08-2N-D/S06	R978032344	3	10
163	CB08-3N-A/S06	R978032341	3	10
163	CB08-3N-D/S06	R978032345	3	10
163	CB10-2N-A/S08	R978032348	3	10
163	CB10-2N-D/S08	R978032352	3	10
163	CB10-3N-A/S08	R978032349	3	10
163	CB10-3N-D/S08	R978032353	3	10
163	CB10-4N-A/S08	R978032351	3	10
163	CB10-4N-D/S08	R978032355	3	10
163	CB16-2N-A/S12	R978032360	3	10
163	CB16-2N-D/S12	R978032362	3	10
163	CBDT-11A-A/S08	R978041747	3	10
163	CBDT-11A-D/S08	R978041748	3	10
163	CBDT-2A-A/S10	R978041749	3	10
163	CBDT-2A-D/S10	R978041750	3	10
163	CBT-11A-A/S08	R978012829	3	10
163	CBT-11A-D/S08	R978012838	3	10
163	CBT-2A-A/S10	R978041744	3	10
163	CBT-2A-D/S10	R978041745	3	10
163	BOLT KIT K-2221A MODULE	R987281101	3	10
163	KR-FF-M6-ED-06----------K-2215	R933003730	3	10
163	KR-SC-M8-ED-06-02E----------K-2202	R933003722	3	10
163	KR-SC-M8-ED-06-03E----------K-2203	R933003723	3	10
163	KR-SC-M8-ED-06-04E----------K-2204	R933003724	3	10
	Coils – Compact Hydraulics			
164	C31-01-OB-12DC-20W-H-D12.7------271-0450	R933002776	3	10
164	C31-01-OC-24DC-20W-H-D12.7------271-0451	R933002777	3	10
164	C31-07-OB-12DC-20W-H-D12.7------271-0452	R933002778	3	10
164	C31-07-OC-24DC-20W-H-D12.7------271-0453	R933002779	3	10
164	C36-01-OB-12DC-26W-H-D14--------271-0510	R933000044	3	10
164	C36-01-OC-24DC-26W-H-D14--------271-0511	R933000053	3	10
164	C36-07-OB-12DC-26W-H-D14-----271-0510207	R933000048	3	10
164	C36-07-OC-24DC-26W-H-D14-----271-0511207	R933000058	3	10
164	C45-01-OB-12DC-33W-H-D19--------271-0417	R933000026	3	10
164	C45-01-OC-24DC-33W-H-D19--------271-0418	R933000034	3	10
164	C45-07-OB-12DC-33W-H-D19------271-041717	R933000030	3	10
164	C45-07-OC-24DC-33W-H-D19------271-041719	R933000032	3	10
164	D15-01-OB-12DC-36W-H-D23-----271-8020210	R933000092	3	10
164	D15-01-OC-24DC-36W-H-D23-----271-8020220	R933000093	3	10
164	D15-07-OB-12DC-36W-H-D23-----271-8020230	R933000094	3	10
164	D15-07-OC-24DC-36W-H-D23-----271-8020240	R933002798	3	10
165	S7L36DTL 24VDC 30W DIOD OD02072230OC02	R901094597	3	10
165	S7L36DTL12VDC30WDIOD CL.H OD02072230OB02	R901094595	3	10
165	S7L36HRL 110VRAC 30W CL.H OD02070130OW02	R934003806	3	10

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Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
165		S7L36HRL 12VDC 30W CLAS H OD02070130OB02	R901090824	3	10
165		S7L36HRL 24VDC 30W CLAS H OD02070130OC02	R901090825	3	10
165		S8.356HRL.12DC 20W CL.H OD02170130OB00	R901090821	3	10
165		S8.356HRL.24DC 20W CL.H OD02170130OC00	R901083065	3	10
165		S8.356HRL110RAC 20W CL.H OD02170130OW00	R901087981	3	10
165		S8356DTV12DC20W DIOD CL.H OD0217223POB00	R901120671	3	10
165		S8356DTV24DC20W DIOD CL.H OD0217223POC00	R901114602	3	10
		Aftermarket Parts			
		Seal Kits			
166		AZMF Rotary Shaft Lip	1510283065	3	10
166		AZMF Seal Kit	1517010195	3	10
166		AZPF Seal Kit	1517010152	3	10
166		AZPF Shaft Seal	1510283008	3	10
166		AZPN Rotary Shaft Lip	1510283023	3	10
166		AZPN Seal Kit	1517010194	3	10
166		VPV/100-164 210 BAR FKM Seals	9511230659	3	10
166		VPV/16-210BAR FKM Seals	9511230605	3	10
166		VPV/25/32-210BAR FKM Seals	9511230597	3	10
166		VPV/45-80 210 BAR FKM Seals	9511230658	3	10
		A10 Service Parts Kit			
167		A1045DFLR/3XNBR+VERP	R910915885	3	10
167		A10V 28 DFR-V KIT	R910932983	3	10
167		A10V 45 DFLR/31V+VERP	R910932984	3	10
167		A10V 71 DFLR/31V+VERP	R910932985	3	10
167		A10V28/31L+VERPACKUNG	R910947782	3	10
167		A10V28/31R+VERPACKUNG	R910947781	3	10
167		A10V28DFLR/3XNBR+VERP	R910915845	3	10
167		A10V45/31L+VERPACKUNG	R910947789	3	10
167		A10V45/31R+VERPACKUNG	R910947730	3	10
167		A10V71/31L+VERPACKUNG	R910947802	3	10
167		A10V71/31R+VERPACKUNG	R910947801	3	10
167		A10V71DFLR/3XNBR+VERP	R910915846	3	10
167		KLEINTEILA10V28+VERP	R910942158	3	10
167		KLEINTEILA10V45+VERP	R910942248	3	10
167		KLEINTEILA10V71+VERP	R910942250	3	10
		Popular Cross-over Filter Elements			
168		1.0045 G25-A00-0-M	R928005636	5	1
168		1.0045 H10XL-A00-0-M	R928005639	5	1
168		1.0045 H20XL-A00-0-M	R928005640	5	1
168		1.0060 G25-A00-0-M	R928005672	5	1
168	***new***	1.1401 G40-A00-0-M	R928045173	5	1
168		10.110LA H10XL-A00-6-M SO3000	R928017483	5	1
168		10.1300LA H10XL-A00-6-M SO3000	R928017667	5	1
168		10.1300LA H6XL-A00-6-M SO3000	R928017668	5	1
168		10.160LA H10XL-A00-6-M SO3000	R928017506	5	1

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Page Number	Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
168	10.240LA H10XL-A00-6-M SO3000	R928017529	5	1
168	10.2600LA H10XL-A00-0-M SO3000	R928037731	5	1
168	10.330LA H10XL-A00-6-M SO3000	R928017552	5	1
168	10.330LA H10XL-A00-B6-M SO3000	R928035218	5	1
168	10.500LA H10XL-A00-6-M SO3000	R928017575	5	1
168	10.660LA H10XL-A00-6-M SO3000	R928017598	5	1
168	16.7400/R H20XL-S00-0-M	R928016662	5	1
168	16.7500/R P10-S00-0-M	R928019959	5	1
168	16.7500/S H10XL-S00-0-M	R928016677	5	1
168	16.7500/S H3XL-S00-0-M	R928016673	5	1
168	16.8304/X H6XL-S00-0-V	R928016729	5	1
168	***new*** 16.8700/R H10XL-S00-0-M	R928016804	5	1
168	16.9600/T H6XL-E00-0-M	R928016950	5	1
168	***new*** 2.0005 G40-A00-0-V	R928045584	5	1
168	2.0020 G25-A00-0-M	R928006374	5	1
168	***new*** 2.0020 H6XL-A00-0-M	R928006376	5	1
168	***new*** 2.0063 H3XL-A00-0-M	R928006699	5	1
168	2.0100 H10XL-A00-0-M	R928006755	5	1
168	2.0100 H10XL-B00-0-M	R928006764	5	1
168	2.0250 H3XL-A00-0-M	R928006861	5	1
168	***new*** 2.0250 H6XL-A00-0-M	R928006862	5	1
168	2.0250 H6XL-B00-0-M	R928006871	5	1
168	***new*** 2.56 P10-A00-0-M	R928019029	5	1
168	2.90 H10XL-C00-0-M	R928025500	5	1
168	***new*** 20.750 P25-S00-6-M	R928046179	5	1
168	***new*** 4.06 P10-A00-0-M	R928022781	5	1
168	***new*** 4.10 G200-A00-0-M	R928028012	5	1
168	***new*** 62.0056K H10XL-J00-0-V	R902603750	5	1
168	62.0056K H20XL-J00-0-V	R902603298	5	1
168	62.0125K H20XL-J00-0-V	R902603243	5	1
168	62.0180K H20XL-J00-0-V	R902603004	5	1
168	***new*** 80.130 H1XL-S00-0-M	R928037484	5	1
168	80.130 H6XL-S00-0-M	R928019201	5	1
168	***new*** 80.30/20 P10-S00-0-V	R928028010	5	1
168	***new*** 80.45/21 VS60-S00-0-M	R928028019	5	1
168	***new*** 80.90 H10XL-S00-0-M	R928016614	5	1
168	***new*** 80.90 P10-S00-0-M	R928016612	5	1
168	84.60 H10XL-S00-4-M	R928028556	5	1
168	9.110LA H10XL-A00-0-M SO3000	R928017144	5	1
168	9.110LA H10XL-A00-0-V SO3000	R928022425	5	1
168	9.110LA H3XL-F00-0-M SO3000	R928017154	5	1
168	9.110LA H6XL-A00-0-M SO3000	R928017145	5	1
168	9.160LA H10XL-A00-0-M SO3000	R928017210	5	1
168	9.160LA H3XL-F00-0-M SO3000	R928017220	5	1
168	9.240LA H10XL-A00-0-M SO3000	R928017243	5	1
168	9.240LA H10XL-F00-0-M SO3000	R928017251	5	1

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GoTo Focused Delivery Program: Part Numbers

Page Number		Description	Part Number	Maximum Quantity	Shipment[1] (Business Days)
168		9.240LA H3XL-F00-0-M SO3000	R928017253	5	1
168		9.280LA H10XL-A00-0-M SO3000	R928017276	5	1
168		9.280LA H20XL-A00-0-M SO3000	R928017275	5	1
168		9.280LA H6XL-A00-0-M SO3000	R928017277	5	1
168		9.30LA H20XL-F00-0-M SO3000	R928017085	5	1
168		9.30LA H3XL-F00-0-M SO3000	R928017088	5	1
168		9.330LA H10XL-A00-0-M SO3000	R928017309	5	1
168		9.330LA H10XL-F00-0-M SO3000	R928017317	5	1
168		9.330LA H3XL-F00-0-M SO3000	R928017319	5	1
168		9.330LA H6XL-F00-0-M SO3000	R928017318	5	1
168		9.500LA H20XL-A00-0-M SO3000	R928017374	5	1
168	***new***	9.60 G25-A00-0-V-0024	R928048442	5	1
168		9.60LA H10XL-A00-0-M SO3000	R928017111	5	1
168		9.60LA H10XL-F00-0-M SO3000	R928017119	5	1
168		9.60LA H3XL-F00-0-M SO3000	R928017121	5	1
168		9.660LA H10XL-A00-0-M SO3000	R928017408	5	1
168		9.660LA H10XL-F00-0-M SO3000	R928017416	5	1
168		9.660LA H20XL-A00-0-M SO3000	R928017407	5	1
168		9.660LA H6XL-F00-0-M SO3000	R928017417	5	1
168		99.183677 MB15-C00-0-M	R928022726	5	1
		Rineer Service Kits			
169		5/16 BALL CHECKS	R986V04286	3	10
169		M015 KT-SE-0150004	R986V01643	3	10
169		M015 KT-SE-0150940	R986V01651	3	10
169		M015 KT-SP-0150931	R986V02033	3	10
169		M015 STD TIMING PLTS	R986V04287	3	10
169		M037 C62 TIMING PLTS	R986V04288	3	10
169		M037 KT-SE-0370973	R986V01687	3	10
169		M037 KT-SE-0370979	R986V01689	3	10
169		M037 KT-SE-0370982	R986V01690	3	10
169		M037 KT-SE-0371917	R986V01696	3	10
169		M037 KT-SP-0370936	R986V02035	3	10
169		M125 KT-SE1250997	R986V01747	3	10
169		M125 KT-SP-1250930	R986V02036	3	10
169		M125 KT-SP-1250993	R986V02037	3	10
169		M125 PC TIMING PLTS	R986V04289	3	10
169		O-RINGS 2-160 NBR	R986V04301	3	10
169		VANES 1250961PC	R986V02047	3	10
169		VANES V0150930	R986V02038	3	10
169		VANES V0371914PC	R986V02041	3	10
169		VANES V1251962-2S	R986V02050	3	10

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