







Intelligent hydraulics combined with multi-technology expertise

As a leading provider in the field of industrial hydraulics, Rexroth takes a top position with its components, systems and extensive know-how and expertise regarding applications and engineering.

From its hydraulics range, which is the widest in the world, Rexroth offers standard products, application-related systems and customer-specific special solutions of high quality.

Using highly advanced microelectronics, Rexroth has rendered hydraulics even more capable. The products can be easily integrated in state-of-the-art machinery concepts and are extremely powerful and energy efficient. As a supplier of all technologies, Rexroth always provides the perfect application-specific drive solution.

Rexroth is the ideal development partner for highly efficient machinery and production equipment – from the initial contact to commissioning and throughout the entire life cycle.

Worldwide operational teams assume all project planning tasks for your machines and systems until they are ready for start of production or turnkey delivery if desired.

Using the multi-technology expertise and drive and control technology of Rexroth, you will become more competitive than ever.





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Directional on/off valves Product range

Product overview









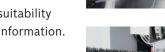
The data and properties specified in this brochure only serve to provide a general overview of the "directional on/off valve" product range of Bosch Rexroth AG.

The overview does not include all technical data and variants and does not replace a technical data sheet. Detailed information on the individual valves can be found in the corresponding data sheets.

No statements concerning a certain condition or suitability for a certain application can be derived from our information.

The information given does not release the user from the obligation of own judgment and verification.











	Directional spool valves, direct operated									Directional spool valves, pilot operated		
	Solenoid actuation							Fluidic, mechanical, manual actuation	Solenoid actuation	Fluidic, mechanical, manual actuation		
	Subplate mounting						Sandwich plate design	Subplate mounting			Subplate mounting	
Туре	WE	WE	WE7	73A12	WEE	5WE	Z4WE	WMR, WMRZ, WMU, WMM, WMD(A)	WP, WH	WMM, WN, WP	4WEH, 4WH	W.H; WM.H
Size	6	6	6	10	10	10	6	6	6	10	10 16 22 25 32	10 16 22 25 32
Component series	7X	6X	6X	5X	5X	5X	3X	5X; 6X	5X; 6X	5X	4X 7X 7X 6X 6X	4X 7X 7X 6X 6X
Data sheet no.	23164	23178, 23178-00 ¹⁾	23183	23340	23340	23352	23193	22280	22282	22334	24751	24851
	 ▶ 4/3, 4/2 or 3/2 directional valve ▶ Standard solenoid ▶ Wet-pin DC solenoids ▶ Electrical connection as individual connection 	 4/3, 4/2 or 3/2 directional valve High-power solenoid Wet-pin DC or AC solenoids Electrical connection as individual or central connection Reduced electrical power consumption (8 W) 1) 	 ▶ 4/3, 4/2 or 3/2 directio ▶ Smooth switching beha ▶ Wet-pin DC solenoids ▶ Electrical connection a connection 	avior	 ▶ 4/3, 4/2 or 3/2 directional valve ▶ 3-chamber version ▶ Wet-pin DC solenoids ▶ Electrical connection as individual or central connection 	 4/3, 4/2 or 3/2 directional valve 5-chamber version With influencing of the switching time, optional Wet-pin DC solenoids Electrical connection as individual connection 		 ► 4/3, 4/2 or 3/2 directional valve ► Type of actuation: Roller plunger (WMR(Z), WMU) Hand lever (WMM) Rotary knob (WMD(A)) 	 4/3, 4/2 and 4/3 directional valve Type of actuation: Pneumatic (WP) Hydraulic (WH) 	 4/3, 4/2 or 3/2 directional valve Type of actuation: Hand lever (WMM) Pneumatic, hydraulic (WN, WP) 	 4/3, 4/2 or 3/2 directional valve Type of actuation: Electro-hydraulic (type WEH) Hydraulic (type WH) Electrical connection as individual or central connection Switching time adjustment, optional Spring or pressure centering 	 ▶ 4/3, 4/2 or 3/2 directional valve ▶ Type of actuation: Pneumatic-hydraulic (WPH) Hydraulic-hydraulic (WHH) Hand lever (WMMH) Rotary knob (WMDH, WMDAH) Roller plunger (WMRH, WMUH)
Maximum flow in I/min	60	80	60	150	150	150	50	60	60	160	160 300 450 650 1080	160 300 450 650 1080
Maximum operating pressure in bar	315	350	350	350	350	420	315	315	315	350	350/280	350/280
Besonderheiten	Standard version for large series	Improved corrosion protection	For the avoidance of switch	ching shocks in the system	Improved corrosion protection	Improved corrosion protection			Axial or radial type of actuation available		Preload valve in channel P of the main valve, optional	

		Directional spool v	valves, pilot operated		Directional seat valves, direct operated						
		Solenoi	d actuation		Solenoid actuation						
		Sandwich	n plate design		Subplate mounting						
Туре	Z4WEH, Z4WH	Z4WEH	Z4WEH, Z4WH	Z4WEH, Z4WH	SE	SED	SEW	SEC	SED	SEW	SH, SP, SMM, SMR
						D. 12 CONTROL OF THE PARTY OF T					CONTROL IN CAPT IN CAP
Size	10	10	16	25	6	6	6	6	10	10	6 10
Component series	4X	5X	5X	5X	7X	1X	3X	1X	1X	1X	3X
Data sheet no.	24753	24755	24761	24768	22042	22049	22058	22035	22045	22075	22340
Features	 4/2 or 4/3 directional shut-off valve Wet-pin DC or AC solenoids Electrical connection as individual connection As straight-through valve or straight-through short-circuit valve 	 ▶ 4/2 directional shut-off valve ▶ Pilot control by cartridge valve ▶ Electrical connection as individual connection ▶ As straight-through valve or straight-through short-circuit valve 	 4/2 or 4/3 directional shut-off valve Wet-pin DC or AC solenoids Electrical connection as individual connection As straight-through valve or straight-through short-circuit valve 	 4/2 or 4/3 directional shut-off valve Wet-pin DC or AC solenoids Electrical connection as individual connection As straight-through valve or straight-through short-circuit valve 	 3/2 or 4/2 directional seat valve For water emulsion and water Blocked connection tight Air-gap DC solenoids Electrical connection as individual connection 		 ▶ 2/2, 3/2 or or 4/2 directional seat valve ▶ Air-gap DC solenoids ▶ Electrical connection as individual connection ▶ Actuation of the control spool by angled lever 	 3/3, 4/2 or 4/3 directional seat valve Blocked connection tight Air-gap DC solenoids Electrical connection as individual connection 	 3/2 or 4/2 directional seat valve Wet-pin DC solenoids Electrical connection as individual connection 	 3/2 or 4/2 directional seat valve Air-gap DC solenoids Electrical connection as individual connection Actuation of the control spool by angled lever 	 ▶ 2/2, 3/2 or or 4/2 directional seat valve ▶ Type of actuation: Hydraulic (SH) Pneumatic (SP) Hand lever (SMM) Roller plunger (SMR)
Maximum flow in I/min	160	160	300	650	25	25	25	25	40	40	25 40
Maximum operating pressure in bar	315	315	315	315	630	350	420/630	420	350	420/630	420/630
Special features							Safe s	switching also with longer standstill periods under press	sure		
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