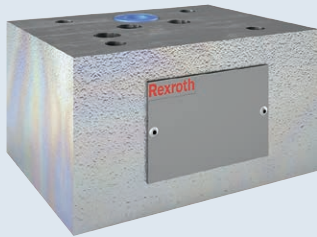
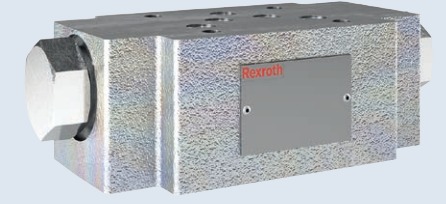



Check valves		Check valves, pilot-operated				
Z1S		Z2S				
						
6	10	6	10	16	25	32
4X	4X	6X	3X	5X	5X	1X
21534	21537	21548	21553	21558	21564	21566
<ul style="list-style-type: none"> Without/with pre-opening Various one and two-channel blocking functions Perfect leak-tightness due to poppet made of high-performance plastic 		<ul style="list-style-type: none"> Without/with pre-opening Different cracking pressures Check valve installation sets available individually 			<ul style="list-style-type: none"> With pre-opening Different cracking pressures Check valve installation sets available individually 	
40	100	60	120	300	450	900
	350		315		315	

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Valves in sandwich plate design

Product overview

Intelligent hydraulics combined with multi-technology competence

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.

Pressure compensators					Locking pressure compensators			Rectifier sandwich plate		
ZDC					SCA			Z4S		
										
6	10	16	25	32	16	25	32	6	10	16
1X		2X			2X		1X	1X	3X	2X
		29224			29247		29249	28163		28389
<ul style="list-style-type: none"> For load compensation Flow control in connection with proportional directional valve 2 or 3-way version 					<ul style="list-style-type: none"> For load compensation Braking valve function (type SCB) Leakage-free blocking, optionally of one or two actuator ports 			<ul style="list-style-type: none"> Graetz circuit for combination with flow control valve For rectified flow through an installed flow control valve Suitable for flow in both directions 		
35	85	150	325	520	130	325	700	32	50	160
250		350			315		350	210		315

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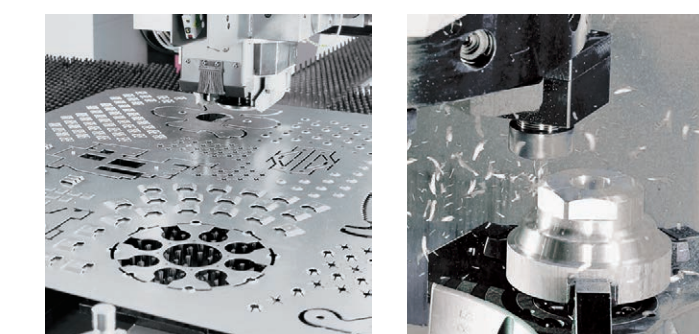
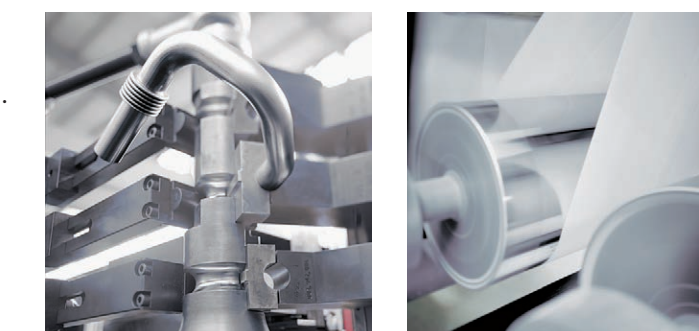



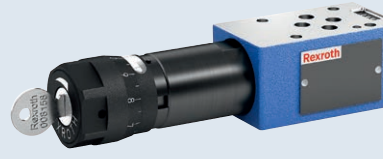

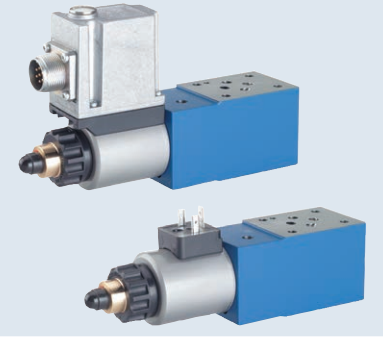

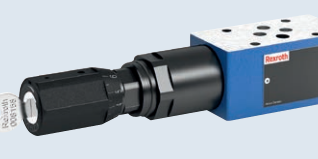

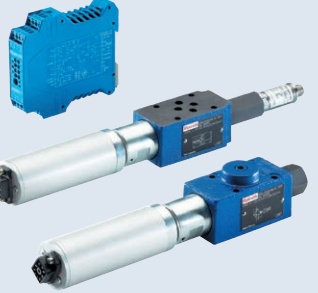

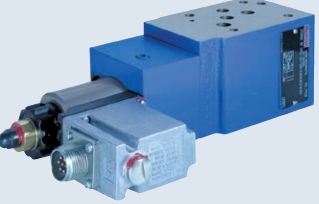

The data and properties specified in this brochure only serve to provide a general overview of the "Valves in sandwich plate design" product range of Bosch Rexroth AG.

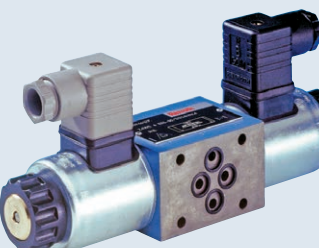


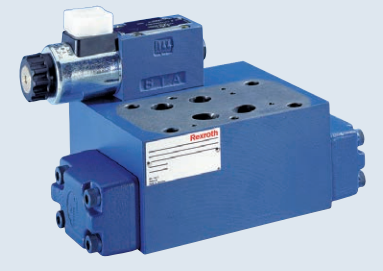
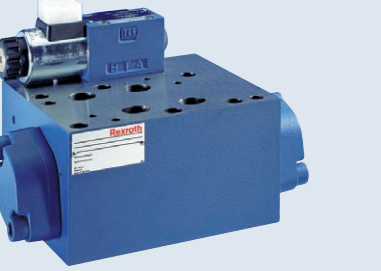







The overview does not include all technical data and variants and does not replace a technical data sheet. Detailed information on the individual valves can be found in the corresponding data sheets.

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.



	Pressure relief valves, direct-operated		Pressure relief valves, pilot-operated		Pressure reducing valves, pilot-operated						Sandwich plates			
Type	ZDBT	ZDBD, Z2DBD	ZDB, Z2DB	ZDBE, ZDBEE	ZDR	Z3DR	ZDR	ZDRS	ZDRE, ZDREE		HSZ			
														
Size	6	6 10	6 10	6	6 10	6 10	6 10	6	6 10	6 10	6 10 16			
Component series	1X	2X	4X	2X	6X 5X	1X	3X	1X	1X 2X	1X 3X 4X	1X 3X 4X 3X			
Data sheet no.	25724	25771 25774	25751 25761	29258	26570 26585	26871 26874	26861	29173	29175 29279	48050 48052 48054				
Features	<ul style="list-style-type: none"> Pilot control valve For subplate mounting and control panel design 	<ul style="list-style-type: none"> With 1 or 2 pressure valve cartridges 4 pressure ratings, optional 5 directions of action, optional 3 adjustment types, optional 	<ul style="list-style-type: none"> With 1 or 2 pressure valve cartridges 4 pressure ratings, optional 5 directions of action, optional 4 adjustment types, optional 	<ul style="list-style-type: none"> Without/with Integrated electronics (OBE) Proportional solenoid with rotatable and detachable coil Linear command value pressure characteristic curve 	<ul style="list-style-type: none"> 3-way version 4 pressure ratings, optional 4 adjustment types, optional 	<ul style="list-style-type: none"> 2.5-way version 4 pressure ratings, optional 4 adjustment types, optional 	<ul style="list-style-type: none"> 3-way version 4 pressure ratings, optional 2 adjustment types, optional 	<ul style="list-style-type: none"> 2-way version 4 pressure ratings, optional 4 adjustment types, optional 	<ul style="list-style-type: none"> 3-way version Self-locking DC motor (if the supply voltage fails or an error message is sent by the control electronics, the set pressure is maintained) 	<ul style="list-style-type: none"> 3-way version Operation by means of proportional solenoids Type ZDREE with integrated electronics (OBE) 	<ul style="list-style-type: none"> 3-way version Operation by rotatable proportional solenoid Type ZDREE with integrated electronics (OBE) 4 pressure ratings, optional 	<ul style="list-style-type: none"> Individual sandwich plates for special requirements Set-up as individual module or horizontal stacking on manifolds Large variability by various combinations as well as subsequent functional changes and extensions 		
Flow in l/min	3	60 120	60 100	30	50 80	60 80	100	30	30 80	30 80	315 (350 bar upon request)			
Maximum operating pressure in bar	315	350	315	350	210	350	315	210	210 315	210 315				
Special features									External control electronics: VT-SSPA1-50-1X (data sheet 30116)					

	Directional spool valves, direct-operated	Directional spool valves, pilot-operated			Throttle valves		Throttle check valves, direct-operated				Flow control valves	
Type	Z4WE	Z4WEH, Z4WH	Z4WEH	Z4WEH, Z4WH	Z4WEH, Z4WH	Z1FG	Z1FG, Z2FG	Z2FS				Z2FRM
												
Size	6	10	10	16	25	6	10	6	10	16	25	6
Component series	3X	4X	5X	5X	5X	4X	3X	4X	3X	3X	3X	2X
Data sheet no.	23193	24753	24755	24761	24768	27482	27488	27506	27518	27526	27536	28164
Features	<ul style="list-style-type: none"> 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 short-circuit valve Spool position monitoring, optional 	<ul style="list-style-type: none"> 4/2 or 4/3 directional shut-off valve Types of actuation: <ul style="list-style-type: none"> electro-hydraulic (type Z4WEH) hydraulic (type Z4WH) Wet-pin DC or AC solenoids Electrical connection as individual connection As straight-through valve or short-circuit valve Spool position monitoring, optional 	<ul style="list-style-type: none"> 4/2 directional shut-off valve Type of actuation: <ul style="list-style-type: none"> electro-hydraulic (type Z4WEH) hydraulic (type Z4WH) Pilot control via cartridge valve Electrical connection as individual connection As straight-through valve or short-circuit valve Spool position monitoring, optional 	<ul style="list-style-type: none"> 4/2 or 4/3 directional shut-off valve Types of actuation: <ul style="list-style-type: none"> electro-hydraulic (type Z4WEH) hydraulic (type Z4WH) Wet-pin DC or AC solenoids Electrical connection as individual connection As straight-through valve or short-circuit valve Spool position monitoring, optional 	<ul style="list-style-type: none"> 4/2 or 4/3 directional shut-off valve Types of actuation: <ul style="list-style-type: none"> electro-hydraulic (type Z4WEH) hydraulic (type Z4WH) Wet-pin DC or AC solenoids Electrical connection as individual connection As straight-through valve or short-circuit valve Spool position monitoring, optional 	<ul style="list-style-type: none"> For flow limitation Adjustment type: Spindle with internal hexagon 	<ul style="list-style-type: none"> For flow limitation of one or two actuator ports Adjustment type: Spindle with internal hexagon and scale 	<ul style="list-style-type: none"> For flow limitation of two actuator ports Atex variant (data sheet 27506-XC-B2) 4 adjustment types, optional 	<ul style="list-style-type: none"> For flow limitation of two actuator ports 3 adjustment types, optional 	<ul style="list-style-type: none"> For flow limitation of two actuator ports Adjustment type: Spindle with internal hexagon 	<ul style="list-style-type: none"> For flow limitation of two actuator ports Adjustment type: Spindle with internal hexagon 	<ul style="list-style-type: none"> With one or two flow control cartridges Adjustment type with hexagon socket head cap screw
Flow in l/min	50	160	160	300	650	70	160	80	160	250	360	32
Maximum operating pressure in bar	315	315	315	315	315	315	315	315	315	350	350	315