

## 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.

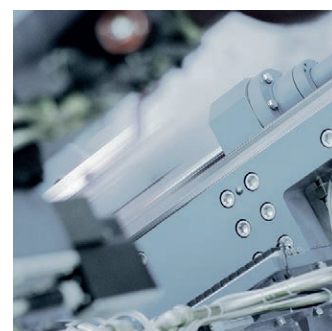
From its hydraulics range, which is the widest in the world, Rexroth offers standard products, application-related systems and customer-specific special solutions of high quality.

Using highly advanced microelectronics, Rexroth has rendered hydraulics even more capable. The products can be easily integrated in state-of-the-art machine designs 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 competence and drive and control technology of Rexroth, you will become more competitive than ever.



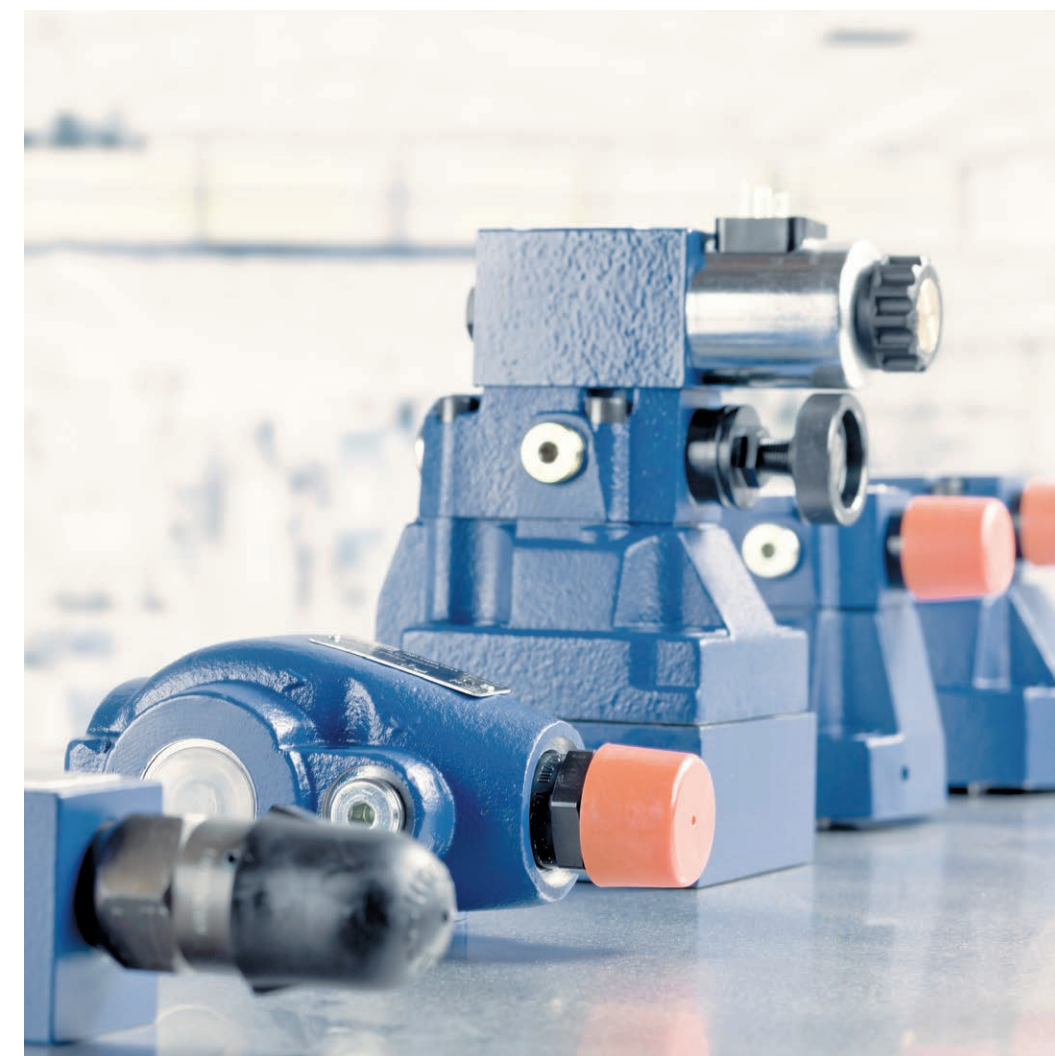
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## High-pressure components for hydraulic applications

Product overview

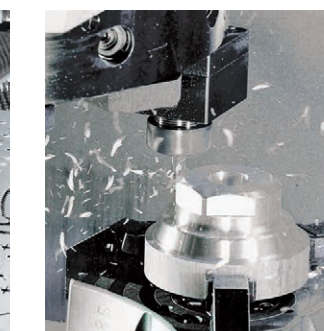


The data and properties specified in this brochure only serve to provide a general overview of the "high-pressure components for hydraulic applications" product range of Bosch Rexroth AG.




The overview does not include all technical data and variants and does not replace a technical data sheet. Detailed information on the individual components can be found in the corresponding data sheets or contact one of our sales centers.

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.







On/off valves

	Isolator valves			Directional valves			Pressure valves				
	Check valve	Shuttle valve	Prefill valve	Directional seat valves, direct operated			Pressure relief valve, direct operated	Pressure relief valve, pilot-operated			
Type	S	LG	SF	SEW	SH, SP, SMM, SMR			DBD	DB, DBW		
											
Size	6/8/10/15/20/25/30	6/10	250/300	6	10	6	10	10	10	25	32
Component series		2X	4X	3X	1X	3X	10	1X	5X		
Data sheet	20378	Dimension sheet upon request		22058	22075	22340			Dimension sheet upon request		
Features	<ul style="list-style-type: none"> <li>▶ For threaded connection</li> <li>▶ Leak-free blocking in one direction</li> <li>▶ Different opening pressures</li> <li>▶ Different connection threads</li> <li>▶ Improved corrosion protection</li> <li>▶ Maximum operating pressure 1000 bar upon request</li> </ul>	<ul style="list-style-type: none"> <li>▶ Subplate mounting</li> <li>▶ Sandwich plate</li> <li>▶ Cartridge valve</li> </ul>	<ul style="list-style-type: none"> <li>▶ Pilot operated check valve, with or without pre-decompression</li> <li>▶ Flange connection</li> <li>▶ Tank installation</li> <li>▶ Cartridge valve without control open spool (check valve)</li> <li>▶ Reduced switching noises due to damping measures</li> <li>▶ Rotatable low-pressure connection (housing)</li> <li>▶ Inductive position switch, optional</li> </ul>	<ul style="list-style-type: none"> <li>▶ Porting pattern according to ISO 4401</li> <li>▶ Solenoids with detachable coil</li> <li>▶ Blocked connection tight in a leakage-free form</li> <li>▶ The coil can be changed without having to open the pressure-tight chamber</li> <li>▶ Safe switching with longer actuating times under pressure</li> </ul>	<ul style="list-style-type: none"> <li>▶ Porting pattern according to ISO 4401 (NG6, however, without locating hole)</li> <li>▶ Safe switching also with longer standstill periods under pressure</li> <li>▶ Types of actuation:                             <ul style="list-style-type: none"> <li>- Mechanical (roller plunger)</li> <li>- Manual (hand lever)</li> <li>- Hydraulic</li> <li>- Pneumatic</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ For subplate mounting</li> <li>▶ For threaded connection</li> <li>▶ As screw-in cartridge valve</li> <li>▶ 3 adjustment types, optional</li> <li>▶ Type-examination tested safety valve according to Pressure Equipment Directive 2014/68/EU, optional</li> </ul>	<ul style="list-style-type: none"> <li>▶ For subplate mounting</li> <li>▶ For threaded connection</li> <li>▶ 4 adjustment types, optional</li> <li>▶ Type-examination tested safety valves according to Pressure Equipment Directive 2014/68/EU, optional</li> <li>▶ With built-on directional valve (type DBW), optional</li> </ul>				
Maximum flow in l/min	450	18	15000	25	40	25	40	30	250	500	650
Maximum operating pressure in bar	420/450	630	500	450/630		630			700	500	
Maximum relief pressure in bar	450/490	690	500	450/690		690			700	500	
Basic data sheet			20482	22058	22075	22340			25402	25802	




On/off valves

	Cartridge valves		
	LFA, LC	LCT, LFT	LC2A
			
Size	16/25/32/40/50/63/80/100	16/25/32/40/50/63/80	16/25/32/40/50/63/80/100
Component series	6X, 7X	2X	1X
Data sheet	21030	Dimension sheet upon request	
Features	<ul style="list-style-type: none"> <li>▶ Cartridge valves for pressure function</li> <li>▶ Cartridge valves for directional function</li> <li>▶ Control cover for pressure function</li> <li>▶ Control cover for directional function</li> <li>▶ Standard porting pattern</li> </ul>	<ul style="list-style-type: none"> <li>▶ 2-way cartridge valve</li> <li>▶ Directional or pressure functions</li> <li>▶ Special porting pattern</li> <li>▶ Limited cover variants</li> </ul>	<ul style="list-style-type: none"> <li>▶ Actively controllable 2/2 directional cartridge valve ("two-level active logics")</li> <li>▶ Installation bore according to ISO 7368</li> <li>▶ Functional diversity due to the installation of standard logic covers type LFA</li> <li>▶ Check valve function</li> <li>▶ Higher operating pressures upon request</li> </ul>
Maximum flow in l/min	12500	5000	12500
Maximum operating pressure in bar	450	630/1000	450
Maximum relief pressure in bar	490	490	490
Basic data sheet	21030	21040	

Proportional servo valves

	Proportional pressure relief valves			High-response throttle valves					
	DBEME	DBETA	DBGT	2WRCE					
									
Size	10	6	6	32	40	50	63	80	125
Component series	3X	6X	2X	2X			1X		
Data sheet	Dimension sheet upon request		29143	Dimension sheet upon request					
Features	<ul style="list-style-type: none"> <li>▶ For subplate mounting</li> <li>▶ Porting pattern according to ISO 6264</li> <li>▶ Operation by means of proportional solenoid</li> <li>▶ Valve and control electronics from a single source</li> <li>▶ Integrated electronics (OBE)</li> <li>▶ External control electronics VT-11131 (data sheet 29865)</li> <li>▶ Step response (0 ... 100%) 150 ms</li> </ul>	<ul style="list-style-type: none"> <li>▶ Pressure-controlled, direct actuated proportional valve</li> <li>▶ For subplate mounting</li> <li>▶ Porting pattern according to ISO 4401</li> <li>▶ Suitable as pilot control valve for logic valves</li> </ul>	<ul style="list-style-type: none"> <li>▶ For subplate mounting</li> <li>▶ Porting pattern according to ISO 6264</li> <li>▶ Operation via DC motor with speed reduction transmission</li> <li>▶ Self-locking in the event of power failure</li> <li>▶ Suitable as pilot control valve for high-pressure cartridge valves type LCT and LFT</li> </ul>	<ul style="list-style-type: none"> <li>▶ 2-way cartridge valve</li> <li>▶ Installation bore according to ISO 7368</li> <li>▶ Integrated electronics (OBE)</li> </ul>					
Maximum flow in l/min	200	400	12	1500	2200	3500	5500	9000	22000
Maximum operating pressure in bar	500	500	700	450					
Maximum relief pressure in bar	500	500	700	490					
Basic data sheet	29361	29262	29143	29136			29135		

Electronics

	Pressure switch, mechanical	Pressure switch, electronic	Pressure sensor
	HED8	HEDE10	HM20
			
Size			
Component series	2X	3X	2X
Data sheet	50061	30277	30272
Features	<ul style="list-style-type: none"> <li>▶ Piston type pressure switch</li> <li>▶ Micro switch with NC/NO contact function</li> <li>▶ For subplate mounting</li> <li>▶ For pipeline installation</li> <li>▶ For vertical stacking</li> <li>▶ Adjustment types                             <ul style="list-style-type: none"> <li>- Spindle with or without scale</li> <li>- Rotary knob with scale, optionally lockable</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Sensor with stainless steel thin film measuring cell</li> <li>▶ Two switching outputs or one switching and one analog output</li> <li>▶ Indicator for pressure control and device parameterization</li> <li>▶ IO link V1.1</li> <li>▶ Components that are in contact with the media are made of stainless steel or FKM</li> <li>▶ Hydraulic connection with internal and male thread</li> <li>▶ Hydraulic connection rotatable by 330°</li> </ul>	<ul style="list-style-type: none"> <li>▶ Sensor with thin film measuring cell</li> <li>▶ Threaded connection G1/4a</li> <li>▶ Components that are in contact with the media are made of stainless steel</li> <li>▶ Output signal 4 ... 20 mA or 0.1 ... 10 V</li> </ul>
Maximum flow in l/min			
Maximum operating pressure in bar	630	600	630
Maximum relief pressure in bar			
Basic data sheet	50061	30277	30272