Service



RE 25802-XC-B2/01.07

1/12

Pressure relief valve, pilot operated

Type DB...5X/...XC

Nominal sizes (NG) 10, 20, 30 Unit series 5X Maximum operating pressure 350 bar

> ATEX units For potentially explosive atmospheres

Part II Technical Data Sheet





Information on explosion protection:

Range of application in accordance with the Explosion Protection Directive and type of protection

- Range of application as per Directive RL 94/9/EG IM2, II2G, II2D
- Type of protection of valve: c (EN 13463-5:2001-01)

What you need to know about these Operating Instructions

These Operating Instructions apply to the explosion-proof version of Rexroth valves, and consist of the following three parts:

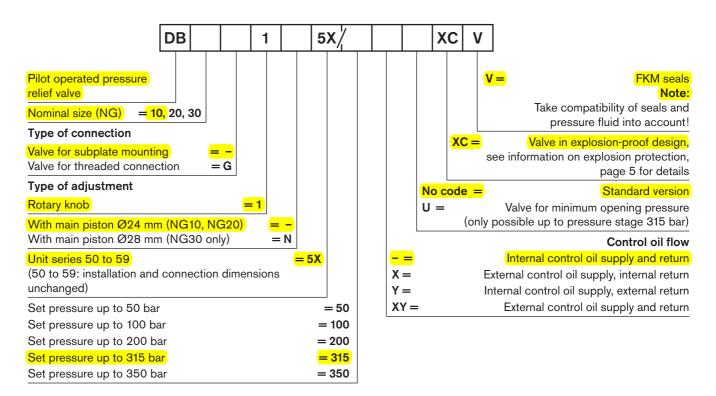
- Part I General Information RE 07010-X-B1
- Part II Technical Data Sheet RE 25802-XC-B2
- Part III Product-specific Instructions RE 25802-XC-B3

Mat. No. R901155669

You can find further information on the correct handling of Rexroth hydraulic products in our publication "General Product Information for Hydraulic Products", RE 07008.



Ordering data and scope of delivery



Included in scope of delivery:

Valve operating instructions

Technical data

Nominal :	size		NG10	NG20	NG30					
Installatio	n position		Optional							
Ambient	temperature ran	ige	-20+80							
Storage t	emperature rang	ge	°C	-20+80						
Weight	Subplate mou	Subplate mounting – DB		2.6 3.5 4.4						
	Threaded conn	nection – DBG	kg	5.3	5.1	4.8				
Surface p	protection		Paint, layer thickness max. 100 µm							
Hydraulic Maximum working		– Ports P, X	bar	350						
pressure		– Port T	bar	315						
Maximum counter pressure		– Port Y (DB)	bar	315						
		 Ports Y, T (with spool-typ directional control valve) 	be bar	See Technical Data Sheets listed in table on page 11						
Maximum set pressure ¹⁾ bar				50; 100; 200; 315; 350						
Minimum	set pressure 1)			Dependent on flow rate (see characteristic curves on page						
Maximum flow rate		 Subplate mounting 	l/min	250	500	650				
		- Threaded connection	l/min	250	650					
Pressure fluid				Mineral oil (HL, HLP) to DIN 51524, rapidly biodegradable pressure fluids to VDMA 24568 (also see RE 90221), HETG (rapeseed oil); HEPG (polyglycols); HEES (synthetic ester) Ignition temperature > 180 °C						
Pressure fluid temperature range °C				-20+80						
Viscosity range mm ² /s				10800						
Maximum permissible degree of contamination of pressure fluid Purity class to ISO 4406 (c)				Class 20/18/15 ²⁾						

Information on explosion protection

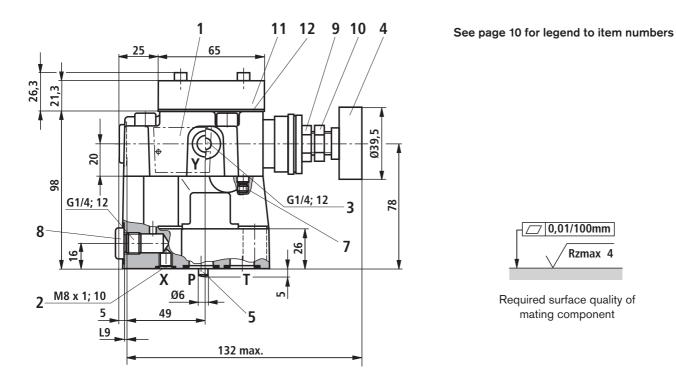
Range of application as per Directive RL 94/9/EG	IM2, II2G	ll2D		
Type of protection of valve	c (EN 13463-5:2001-01)	c (EN 13463-5:2001-01)		
Maximum surface temperature ³⁾ °C	-	115		
Temperature class	T4	-		
Degree of protection	-	IP 65		

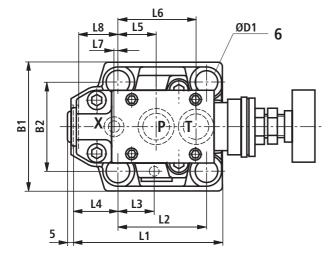
¹⁾ In order to prevent the maximum permitted response pressure from being exceeded in the system, it must be checked with a suitable measuring instrument during the setting process.

- ²⁾ The purity classes stated for the components must be complied with in hydraulic systems. Effective filtration prevents problems and also extends the service life of components. For a selection of filters, see Technical Data Sheets RE 50070, RE 50076 and RE 5008.
- ³⁾ As high surface temperatures may occur, European standards EN 563 and EN 982 on the prevention of accidental contact must be observed.

Unit dimensions: Subplate mounting (nominal dimensions in mm)

Type DB.-...XC...





Тур	L1	L2	L3	L4	L5	L6	L7	L8	L9	B1	B2	ØD1
DB 10	<mark>91</mark>	<mark>53.8</mark>	<mark>22.1</mark>	<mark>27.5</mark>	<mark>22.1</mark>	<mark>47.5</mark>	0	<mark>25.5</mark>	2	<mark>78</mark>	<mark>53.8</mark>	<mark>14</mark>
DB 20	116	66.7	33.4	33.3	11.1	55.6	23.8	22.8	10.5	100	70	18
DB 30	147.5	88.9	44.5	41	12.7	76.2	31.8	20	21	115	82.6	20