

#### Extracted from RA 25 402/06.98

Page 1 of 1

Issue: 01.01

See Section 16 for applicable

Preferred/Spotlight part numbers
and unit price.

## Pressure relief valve, direct operated Model DBD

Sizes 6 to 30, Series 1X Maximum operating pressure 630 bar (9150 PSI) Maximum flow 330 L/min (87 GPM)

- Direct operated, fast response pressure relief valve
- Optional mounting styles
  - · Screw-in cartridge valve
  - · Cartridge in threaded housing
- Multiple pressure adjustment options



#### Model DBD A..K 1X/..

 Multiple pressure adjustment ranges available for maximum resolution

## Ordering code

						DE	D			12	x /		7	
Pressure relief valve, direct ope	erated										<del>'</del>		<u>'ı</u>	Г
Type of adjustment	Size					Ī	l							
	6	10	15	20	25	30								
Screw adjustment with locknut	•	•	•	•	•	•	= S							l
and protective cap														l
Handknob	•	•	•	•	-	-	=H							
Size	= 6	= 10	= 15	= 20	= 25	= 30		e.g.						l
SAE	-4;	-8;	-12;	-16;	-20;	-24;								
	7/16-20	3/4-16	1 1/16-12	1 5/16-12	1 5/8-12	1 7/8-12		=10						
Type of connection	6	10	15	20	25	30								
for block mounting (cartridge)	•	•	-	•	-	•			= K					
for threaded connections	•	•	•	•	•	•			= G					l
Series 10 to 19, (10 to 19, externa	ılly interchan	geable)								= 1X				l
Ordering code for														
pressure range PSI					1	1								
25 bar (365 PSI)	•	•	_	_	-	•				=				
50 bar (725 PSI)	•	•	•	•	-	•				=				
100 bar (1450 PSI)	•	•	_	•	•	•					100			l
200 bar (2900 PSI)	•	•	•	•	•	•					200			
315 bar (4600 PSI)	•	•	-	•	•	•					315			
400 bar (5800 PSI)	•	•	-	•	-	-					400			
630 bar (9150 PSI)				_		_					630			
Thread options – Model "G" only SAE threaded housing											=	= 12		
NBR seals, suitable for petroleum of	oils (HM, HL,	HLP)									=	= no c	ode	l

#### **Technical data**

Operating pressure range		Size 6	Size 10	Size 15 and 20	Size 25 and 30
Inlet "P"	bar (PSI)	400 (5800)	630 (9140)	400 (5800)	315 (4600)
Outlet "T"	bar (PSI)	315 (4600)	315 (4600)	315 (4600)	315 (4600)

## Extracted from RE 25408/01.05

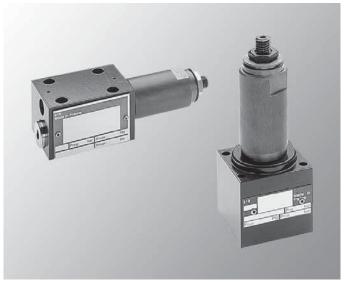
Page 1 of 2 Issue: 06.06

# Pressure relief valve, directly operated Model DB 6 D

Nominal size 6 Series 1X

Max. working pressure up to 315 bar (4500 PSI) Max. flow 60 l/min (15.85 GPM)

- For subplate mounting
- 3 pressure setting elements, choice of:
  - Sleeve with hexagon socket
  - Rotary knob, lockable, with scale
  - Rotary knob with scale



Model DB 6 D

### Ordering code

	DB	6	D		١	N	 1X /		٧		*
Pressure relief valve =	DB										= Further information in plain text
Nominal size 6	=	6									No code = horizontal adjustment
Directly operated		_	D								W65 = vertical adjustment
Pressure relief in P-duct Pressure relief in P and B-ducts			 = F						V	=	FPM seals (other seals available on request) <b>Note</b>
Mounting hole configuration to ISC	6264			=	W						Take compatibility of seals and
Setting elements						•					pressure fluid into account!
Sleeve with hexagon socket Rotary knob, lockable, with scale 1) Rotary knob with scale						= 2 = 3 = 7		180 160 318	) =		max. setting pressure = 80 bar (1160 PSI) max. setting pressure = 160 bar (2320 PSI) max. setting pressure = 315 bar (4500 PSI)
1) 2H key included in scope of deliv	very						1X	=			Unit series 10 to 19 (10 to 19: installation and connection dimensions unchanged)



#### Extracted from RE 25408/01.05

Page 2 of 2 Issue: 06.06

#### **Technical data**

General			
Valve function			Pressure relief valve, directly operated
Type of mounting			Subplate, mounting hole configuration NG6, ISO 6264
Mounting position			Optional
Ambient temperature	range	°C (°F)	-25 to +50 (-13 to +122)
Weight Horizontal kg (lbs		kg (lbs.)	1.4 (3.09)
	Vertical	kg (lbs.)	1.1 (2.42)
Hydraulic			
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), other pressure fluids available on request
Maximum permissible of contamination of property class to ISO 44	ressure fluid		Class 20/18/15 <sup>1)</sup>
Pressure fluid temper	ature range	°C (°F)	-25 to +80 (-13 to +176)
Seals			FPM (Viton® Dupont)
Viscosity range		mm²/s (SUS)	10 to 500 (45 to 2320)
Max. setting pressure		bar (PSI)	80, 160 or 315 (1160, 2320 or 4500)
Max. working pressure	e	bar (PSI)	315 (4500)
Max. flow rate		I/min (GPM)	60 (15.85)

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 catalog sections RE 50070, RE 50076 and RE 50081.

#### Extracted from RE 25722/01.05

Page 1 of 2 Issue: 06.06

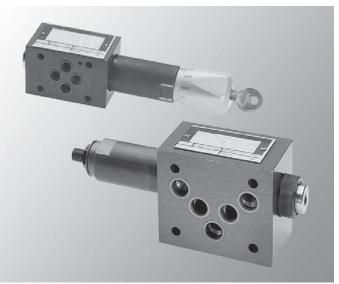
## Pressure relief valve, directly operated Model ZDBY D / Z2DBY D

Nominal size 6 and 10

Series 1X

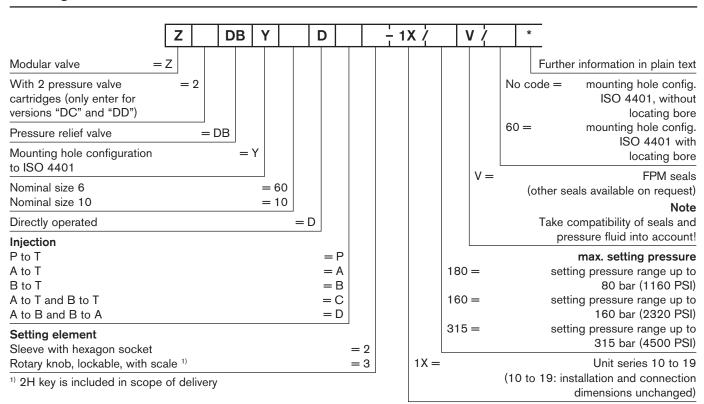
Max. working pressure up to 315 bar (4500 PSI)
Max. flow 60 and 120 l/min (15.85 and 31.70 GPM)

- Modular valve
- Mounting hole configuration to ISO 4401
- 3 pressure stages
- 5 effective directions
- With 1 or 2 pressure valve cartridges
- 2 setting elements:
  - · Sleeve with hexagon socket
  - Rotary knob, lockable, with scale
- Subplates as per catalog sections RE 45053 (NG6) and RE 45055 (NG10) (order separately)



Model ZDBY D / Z2DBY D

## Ordering code





#### Extracted from RE 25722/01.05

Page 2 of 2 Issue: 06.06

#### **Technical data**

Valve function			Pressure reducing valve, directly operated
Type of mounting			Intermediate plate NG6, ISO 4401-03-04-0-94
Installation position			Optional
Weight	Version 2	kg (lbs.)	1.4 (3.09)
	Version 3	kg (lbs.)	1.8 (3.97)
Hydraulic			
Pressure fluid			Mineral oil (HL, HLP) to DIN 51524. Rapidly biodegradable pressure fluids to VDMA 24568 (see also RE 90221), HETG (rapeseed oil), HEPG (polyglycols), HEES (synthetic ester), other pressure fluids available on request
	le degree of contamination rity class to ISO 4406 (c)		Class 20/18/15 1)
Pressure fluid tempo	erature range	°C (°F)	-20 to +80 (-4 to +176)
Seals			FPM (Viton® Dupont)
Viscosity range		mm²/s (SUS)	10 to 500 (45 to 2320)
Max. setting pressur	e	bar (PSI)	80, 160 or 315 (1160, 2320 or 4500)
Max. working pressu	ıre	bar (PSI)	315 (4500)
Max. flow rate		I/min (GPM)	60 (15.85)

<sup>&</sup>lt;sup>1)</sup> 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 catalog sections RE 50070, RE 50076 and RE 50081.

## Size 10 - General

		Pressure reducing valve, directly operated								
		Intermediate plate NG10, ISO 4401-05-04-0-94								
		Optional								
Version 2	kg (lbs.)	2.9 (6.39)								
Version 3	kg (lbs.)	3.5 (7.71)								
		Mineral oil (HL, HLP) to DIN 51524. Rapidly biodegradable pressure fluids to VDMA 24568 (see also RE 90221), HETG (rapeseed oil), HEPG (polyglycols), HEES (synthetic ester), other pressure fluids available on request								
degree of contamination y class to ISO 4406 (c)		Class 20/18/15 <sup>1)</sup>								
ature range	°C (°F)	-20 to +80 (-4 to +176)								
		FPM (Viton® Dupont)								
	mm²/s (SUS)	10 to 500 (45 to 2320)								
	bar (PSI)	80 (1160) 160 or 315 (2320 or 4500)								
Э	bar (PSI)	315 (4500) 315 (4500)								
	I/min (GPM)	90 (23.78) 120 (31.70)								
	Version 3  degree of contamination y class to ISO 4406 (c) ature range	Version 3 kg (lbs.)  degree of contamination y class to ISO 4406 (c) ature range °C (°F)  mm²/s (SUS) bar (PSI) bar (PSI)	Intermediate plate NG10, ISO 440							

<sup>&</sup>lt;sup>1)</sup> 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 catalog sections RE 50070, RE 50076 and RE 50081.

## Extracted from RE 25724/01.05

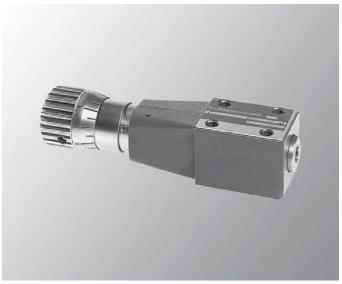
Page 1 of 2 Issue: 06.06

# Pressure relief valve Model (Z)DBT/DZT

Nominal size 6 Series 1X

Max. working pressure up to 315 bar (4500 PSI) Max. flow 3 l/min (0.79 GPM)

- Directly operated valves for limiting the system pressure
- Used as a pilot valve
- For subplate mounting:
   Mounting hole configuration to ISO 4401-03-02-0-94
- Subplates as per catalog sections RE 45052 (order separately)



Model (Z)DBT / DZT

### Ordering code

		-	Ι	Ι	<u>+</u> 1	x /	Д			
Subplate mounting Pressure relief function Pressure sequence function Intermediate plate Pressure relief function	= DBT = DZT = ZDBT							1	No code =	NBR seals (other seals available on request) Note Take compatibility of seals and pressure fluid into account!
For installation in instrument panel Mounting hole configuration to ISO 4401-03-02-0-94		= G = X					180			setting pressure range 3 to 80 bar (43 to 1160 PSI) setting pressure range
Function in A-duct Function in B-duct Function in P-duct			= A = B = P				315	5 =	:	3 to 160 bar (43 to 2320 PSI) setting pressure range 3 to 315 bar (43 to 4500 PSI)
Setting elements Handwheel and lock nut External square with lock nut and pro-	tective cap			= 1 = 2		1X =	:		(1	Unit series 10 to 19 0 to 19: installation and connection dimensions unchanged)
Rotary knob, lockable, with scale <sup>1)</sup> Rotary knob with scale External square and lock nut				= 3 = 7 = 8						

<sup>1) 2</sup>H key is included in scope of delivery