

Extracted from RA 26 570/06.98

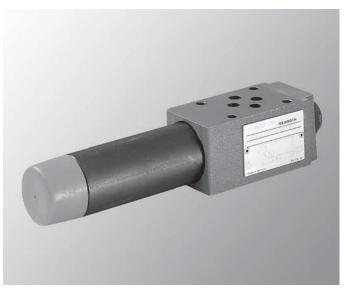
Page 1 of 1 See Section 16 for applicable Issue: 01.01 Preferred/Spotlight part numbers and unit price.

Pressure reducing valve, direct operated Model ZDR 6 D sandwich mounted

Size 6 Series 4X

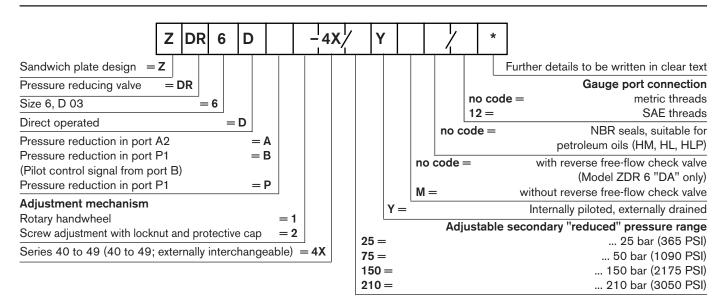
Maximum operating pressure 210 bar (3050 PSI) Maximum flow 50 L/minn (13 GPM)

- Direct operated pressure reducing valve, of sandwich plate design, for use in vertical stacking assemblies
- Porting pattern to ISO 4401-03, NFPA T 3.5.1 M R1 and ANSI B 93.7 D 03
- Pressure adjustment options
- Four pressure adjustment ranges available to 3000 PSI
- Optional built-in reverse free flow check valve



Model ZDR 6 DP 2-4X/...YM...

Ordering code



Technical data

Nominal Size	Size	6
Hydraulic fluid		Petroleum oils (HM, HL, HLP); Phosphate ester fluids (HFD-R)
Operating pressure (Inlet)	bar (PSI)	315 (4600)
Reduced pressure (Outlet)	bar (PSI)	25 (365), 50 (1090), 150 (2175), 210 (3050)
Back pressure Port T(Y)	bar (PSI)	160 (2320)
Maximum permissible flow	L/min (GPM)	50 (13.2)
Weight (approx.)	kg (lbs.)	1.2 (2.6)



Extracted from RA 26 585/06.98

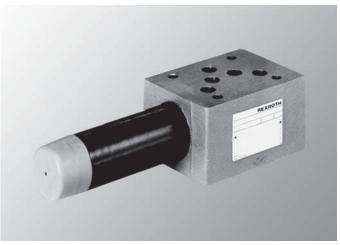
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Pressure reducing valve, direct operated Model ZDR 10 D sandwich mounted

Size 10 Series 5X

Maximum operating pressure 210 bar (3050 PSI) Maximum flow 80 L/min (21 GPM)

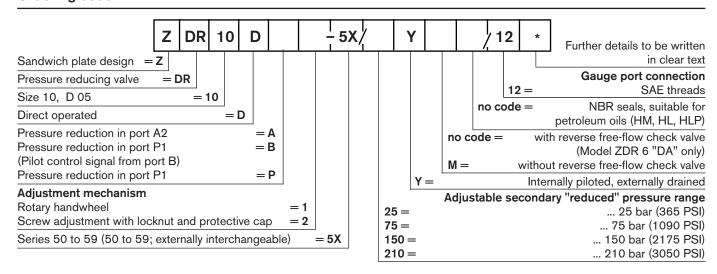
- Direct operated pressure reducing valve, of sandwich plate design, for use in vertical stacking assemblies
- Porting pattern to ISO 4401-05, NFPA T 3.5.1 M R1 and ANSI B 93.7 D 05
- Option of pressure reduction in pressure supply line or in one of the service lines
- Four pressure adjustment options
 - · Rotary handwheel
 - · Screw adjustment with locknut and protective cap



Model ZDR 10 DP 2-5X/. .Y. .

- Key lock rotary handknob with adjustment scale
- · Rotary handknob with adjustment scale
- Four pressure adjustment ranges available to 3000 PSI
- Optional built-in reverse free flow check valve
- Maximum spring setting, valve is permitted to 4600 PSI

Ordering code



Technical data (For applications outside these parameters, please consult us!)

Hydraulic fluid			Petroleum oil (HL; HLP); phosphate ester (HFD-R)
Temperature range of fluid		°C (°F)	NBR seals: -30 to +80 (-22 to +176) FPM seals: -20 to +80 (-4 to +176)
Viscosity range		mm²/s (SUS)	10 to 800 (60 to 3710)
Fluid cleanliness			Maximum permissible degree of contamination to ISO 4406, class 18/15. For this, we recommend a filter with a minmum retention rate of $\beta_{10} \ge 75$.
Operating pressure (inlet)		bar (PSI)	315 (4600)
Reduced pressure (outlet)		bar (PSI)	25 (365); 75 (1090); 150 (2175); 210 (3050)
Back presure	Port T (Y)	bar (PSI)	160 (2320)
Maximum permissible flow		L/min (GPM)	80 (21)
Weight (approx.)		kg (lbs.)	2.8 (6.1)



Extracted from RA 26 564/06.98

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Issue: 01.01 Preferred/Spotlight part numbers
and unit price.

Pressure reducing valve, direct operated Model DR 6 DP

Size 6

Series 5X

Maximum operating pressure 315 bar (4600 PSI) Maximum flow 60 L/min (16 GPM)

- Direct operated pressure reducing valve
- Mounts on standard ISO 5781-03, NFPA/ANSI P 03
- For subplates, see datasheet RA 45 052
- Pressure adjustment options
- Four pressure adjustment ranges available to 315 bar (4600 PSI)
- Optional built-in reverse free flow check valve



Model DR 6 DP 2-5X/...YM...

Ordering code

	DR	6	D	Р	,	-5	x/	Y			7	,	*
Pressure reducing valve = D	R										Ė		Further details to be
Size 6, P 03		6											written in clear text
Direct operated			D										Gauge port connection
Subplate mounted				= P │								12 =	SAE threads
Adjustment mechanism											no d	code =	NBR seals, suitable for
Rotary handwheel				=	= 1								petroleum oils (HM, HL, HLP)
Screw adjustment with locknut	and p	rotect	ive c	ap =	= 2					no c	ode =	=	With reverse free-flow check valve
Series 50 to 59					-	= 5X				M =		V	Vithout reverse free-flow check valve
(50 to 59; externally interchang	eable))							Y =				Internally piloted, externally drained
Adjustable secondary "reduce	ed" pr	essu	re rar	nge			ı						
25 bar (365 PSI)						=	25						
75 bar (1090 PSI)						=	75						
150 bar (2175 PSI)						=	150						
210 bar (3050 PSI)						=	210						

Technical data

Hydraulic fluid			Petroleum oils (HM, HL, HLP); Phosphate ester fluids (HFD-R)
Operating pressure	Port P	bar (PSI)	315 (4600)
Reduced pressure	Port A	bar (PSI)	25 (365), 75 (1090), 150 (2175), 210 (3050)
Back pressure	Port T (Y)	bar (PSI)	160 (2320)
Maximum permissible flo	w	L/min (GPM)	60 (16)
Weight (approx.)		kg (lbs.)	1.2 (2.6)



Extracted from RA 26 580/06.98

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Pressure reducing valve, direct operated Model DR 10 DP

Sizes 10, Series 5X

Maximum operating pressure 210 bar (3050 PSI) 1)

Maximum flow 80 L/min (21 GPM)

- Direct operated pressure reducing valve
- Mounts on standard ISO 5781-06, NFPA/ANSI P 06 interfaces
- For subplates, see datasheet RA 45 062
- Pressure adjustment options
- Four pressure adjustment ranges available to 210 bar (3050 PSI)
- Optional built-in reverse free flow check valve
- Pressure gauge port



Model DR 10 DP 2-4X/...YM...

1) Maximum spring setting, however valve is permitted to 4600 PSI

Ordering code

	DR	10	D	Р		4X/	/	Υ	,				*	
Pressure reducing valve = D	R													Further details to be
Size 10, P 06	 = 1	0												written in clear text
Direct operated			D									1	12=	SAE threaded
Subplate mounted				₽ P										gauge port
Rotary handknob Screw adjustment with locknut and prote	ective	сар			= 1 = 2						no	desi	g. =	NBR seals suitable for
Series 4X					= 4	X							petro	leum oils (HM, HL, HLP)
(40 to 49, installation and connection dime	ension	s rema	ain un	chang	ed)					no c	lesig.	=		With reverse free-flow
Adjustable secondary "reduced" pressur	re ran	ge												check valve
25 bar (365 PSI)						= 2	5			M =			١	Without reverse free-flow
75 bar (1090 PSI)						= 7	5							check valve
150 bar (2175 PSI) 210 bar (3050 PSI)						= 15 = 21			Y =		ı	nter	nally p	piloted, externally drained

Technical data

Hydraulic fluid			Petroleum oils (HM, HL, HLP), Phosphate ester fluids (HFD-R)
Fluid temperature range		°C (°F)	NBR seals: -30 to +80 (-22 to 176)
			FPM seals: -20 to +80 (-4 176)
Viscosity range		mm²/s (SUS)	10 800 (60 3710) (dependent on fluid)
Maximum degree of fluid contamination			Class 18/15 according to ISO 4406.
-			Therefore, we recommend a filter with a retention rate of $\beta_{10} \ge 75$.
Operating pressure	Port B	bar (PSI)	up to 315 (4600)
Adjustable secondary pressure (output)	Port A	bar (PSI)	25 (365), 75 (1090), 150 (2175), 210 (3050)
Back pressure	Port Y	bar (PSI)	up to 160 (2300)
Maximum flow		L/min (GPM)	up to 80 (21)
Installation position			optional
Weight		kg (lbs.)	approx. 3 (6.6)