Service

Check valve

Type Z1SRA

RE 21515/02.06 Replaces: 07.93

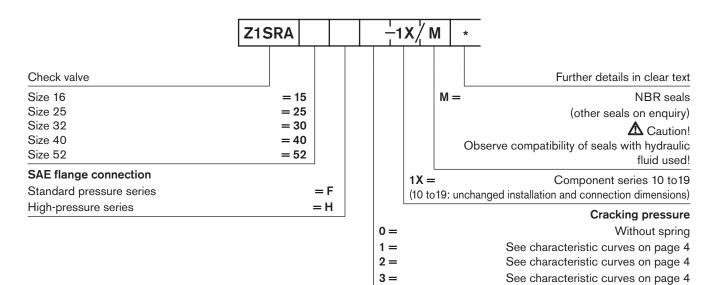
1/6



Sizes16 to 52 Component series 1X Maximum operating pressure 315 bar Maximum flow 2000 l/min

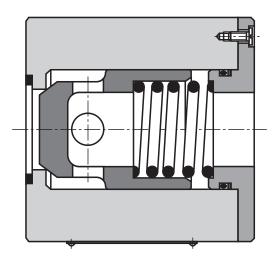
Table of contents		Features
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Ordering code



5 =

Section, symbols



With spring

See characteristic curves on page 4 (not for sizes 40 and 52)

Without spring

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

General					
Sizes	Size 16	Size 25	Size 32	Size 40	Size 52
Weight kg	2.0	2.6	4.0	7.4	12.6
Installation orientation	Optional				
Ambient temperature range °C	-30 to +80				

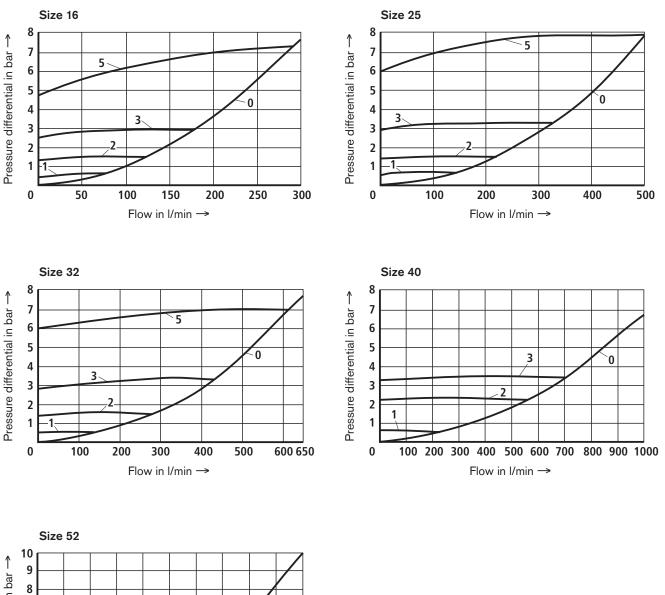
Hydraulic		
Maximum operating pressure	bar	315 ¹⁾
Cracking pressure	bar	See characteristic curve on page 4
Maximum flow	l/min	See characteristic curve on page 4
Hydraulic fluid		Mineral oil (HL, HLP) to DIN 51524; fast bio-degradable hydraulic fluids to VDMA 24568 (see also RE 90221); HETG (rape seed oil); other hydraulic fluids on enquiry
Hydraulic fluid temperature range	°C	-30 to +80
Viscosity range	mm²/s	2.8 to 500
Max. permissible degree of contamination of the hy- draulic fluid; cleanliness class to ISO 4406 (c)		Class 20/18/15 ²⁾

¹⁾ Observe permissible pressures for flange connections (see page 5)!

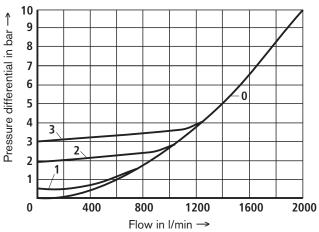
²⁾ The cleanliness classes specified for components must be adhered to in hydraulic systems. Effective filtration prevents malfunction and, at the same time, prolongs the service life of components.

For the selection of filters, see data sheets RE 50070, RE 50076, RE 50081, RE 50086 and RE 50088.

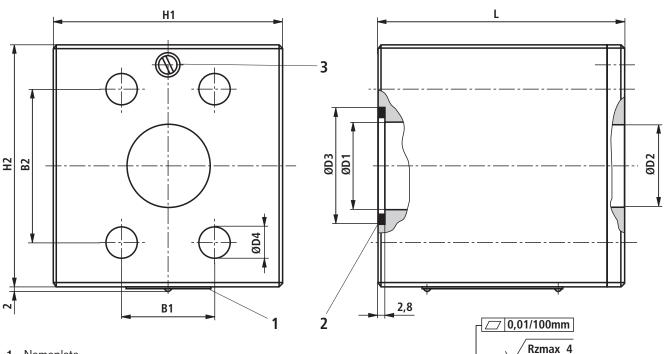
Characteristic curves (measured with HLP46, $\vartheta_{oil} = 40$ °C ± 5 °C)



 Δp - q_V characteristic curves at cracking pressure



Unit dimensions (nominal dimensions in mm)



- 1 Nameplate
- 2 O-ring
- 3 Countersunk screw ISO 1580 M4 x 10 4.8-A2C

Required surface quality of the valve mounting face

Туре	Size	B1	B2	H1	H2	L	ØD1	ØD2	ØD3	ØD4	SAE connection	
Турс								-		_		
	16	22.2	47.6	60	70	67.5	20	18.5	31.8	11	SAE 3/4"	
Z1SRA F	25	26.2	52.4	70	80	75	25	21.5	39.7	11	SAE 1"	
	32	30.2	58.7	80	95	85	30	26	44.6	11	SAE 1 1/4"	
	40	35.8	69.9	95	110	114.5	40	37	54	13	SAE 1 1/2"	
	52	42.9	77.8	114	135	129	50	45	63.5	13	SAE 2"	
	16	23.8	50.8	60	70	66.5	20	18.5	31.8	11	SAE 3/4"	
Z1SRA H	25	27.8	57.2	70	80	75	25	21.5	39.7	13	SAE 1"	
	32	31.8	66.7	80	95	85	30	26	44.6	15	SAE 1 1/4"	
	40	36.6	79.4	95	110	114.5	40	37	54	17	SAE 1 1/2"	
	52	44.4	96.8	114	135	129	50	45	63.5	21	SAE 2"	
Туре	Size	Valve fixing screws (separate order) ¹⁾			Tightening torque M _T in Nm ²⁾			Permissible pressures for flange connec- tions according to				
							ISO 6162/1			ISO 6162/2		
	16		M10		70		5000 p	si 350) bar			
	25		M10		70			4500 p	si 315	5 bar		
Z1SRA F	32	M10			70			3600 p	psi 250 bar		_	

	16	M10	70	5000 psi	350 bar			
Z1SRA F	25	M10	70	4500 psi	315 bar			
	32	M10	70	3600 psi	250 bar	-		
	40	M12	130	2900 psi	200 bar			
	52	M12	130	2900 psi	200 bar			
Z1SRA H	16	M10	70					
	25	M12	130			6000 psi	400 bar	
	32	M14	180	-	-			
	40	M16	295					
	52	M20	550					

¹⁾ 4 hexagon socket head cap screws ISO 4762 - 10.9

 $^{2)}$ Data in accordance with ISO 6162, with friction coefficient $\mu_{total}{=}$ 0.14 (please adjust in the case of changed surfaces)

Notes

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