



Reducing valve - Self - Controlled

for liquids

2/310

PN 16 - 100

Connection

- flanges DIN 2501, facing DIN 2526 - C resp. E

Installation position

- stem vertical, control housing on top

Leakage rate

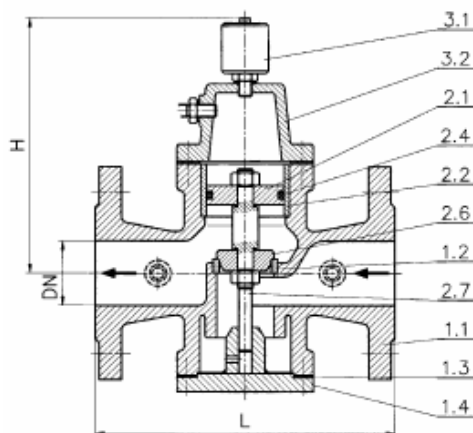
- 0,03% K_{vs}

Characteristic

- linear

Working temp.

- max. 60°C, higher temperatur at request



Dimensions, service limits

DN	L					H	k_{vs}			k_{vR}	$p_{2,MAX}$ [bar]	Weight [kg]
	PN 16	PN 25	PN 40	PN 63	PN 100		standard	red. 1	red. 2			
65	310	310	310	320	320	295	40	25	16	5% K_{vs}	40	
80	310	310	310	320	320	295	63	40	25		40	
100	350	350	350	350	350	340	100	63	40		40	
125	400	400	400	405	420	450	160	100	63		40	
150	400	400	400	405	430	450	250	160	100		40	
200	500	500	510	510	535	585	-	250	160		40	
250	600	610	610	-	-	600	-	400	250		16	
300	700	710	710	-	-	675	-	630	400		16	

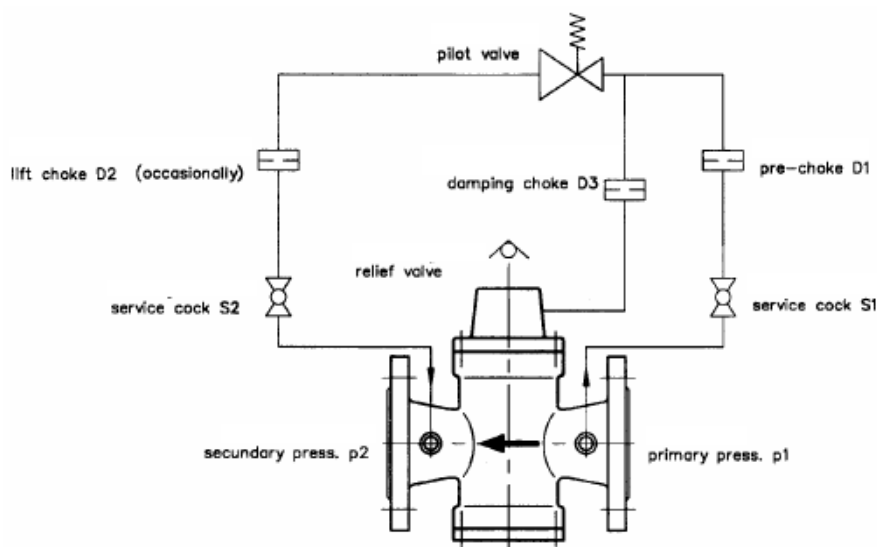


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Material sets				
Pos.	designation	Set 1 cast iron	Set 2 cast steel	Set 3 stainless steel
1.1	body	BA - Code 1 GG - 25	BA Code 11 GS - C25	BA - Code 53 1.4581
1.2	body seat	BA - Code 30 1.4021	BA - Code 30 1.4021	BA - Code 37 1.4571
1.3	gasket	asbestos free	asbestos free	asbestos free
1.4	cover	BA - Code 1 GG - 25 ¹⁾	BA - Code 1 GS - C25 ¹⁾	BA - Code 37 1.4571
2.1	control piston	BA - Code 30 1.4021	BA - Code 30 1.4021	BA - Code 37 1.4571
2.2	bush	RG7	RG7	RG7
2.4	O - ring	NBR	NBR	NBR/FKM
2.6	disk	BA - Code 30 1.4021	BA - Code 30 1.4021	BA - Code 31 1.4301
2.7	stem	BA - Code 30 1.4021	BA - Code 30 1.4021	BA - Code 37 1.4571
3.1	relief valve	acc. to service parameters		
3.2	control housing	BA - Code 1 GG - 25 ¹⁾	BA - Code 1 GS - C25 ¹⁾	BA - Code 37 1.4571
-	bolts, nuts	steel, galvanized	steel, galvanized	A2/A\$
-	control system	all parts are designed acc. to service parameters		

¹⁾ occasionally St 37

Further designs and materials at request



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Installation

To be installed with setm vertically and control housing on top. Other installation position only at special arrangement. Flow direction must be considered.

Service

- Before putting into operation open both service cocks
- The valves are delivered with preset pilot valve. At putting into operation the setting must be checked in any case and if necessary must be adjusted newly.
- Setting of secondary pressure must be carried out on the pilot valve. Tightening up the set screw increases secondary pressure p_2 , loosening the set screw effects decrease of p_2 .
- After adjustment is finished, the set screw must be fixed by tightening up the lock nut.
- During continuous service the mentioned minimum discharge must be secure.
- We recommend to install stop valve, strainer reducing valve, safety valve (to avoid overload at secondary pressure) and final stop valve using the sequence as mentioned.

Maintenance

- The valve is basically maintenance free. We recommend to check setting of secondary pressure once a year.

Disassembling the main valve

- Disassembling of the main valve should be carried out only by the manufacturer

Disassembling the pilot system

- Although it is not forcible necessary we recommend to unload the main line
- Shut both service cocks. From now on there is no reduction function resp. stop function on the main valve.
- Slowly unscrew one threaded piece behind the pilot valve and wait until pilot system is fully unloaded
- For further disassembling see separate instructions for the individual assembly parts
- After re - assembling open first service cock S2 and after this slowly open S1. During opening check tightness of pilot system.