



Reducing valve

for liquids and gases

2/210

PN 16 - 100

Connection:

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

Installation position:

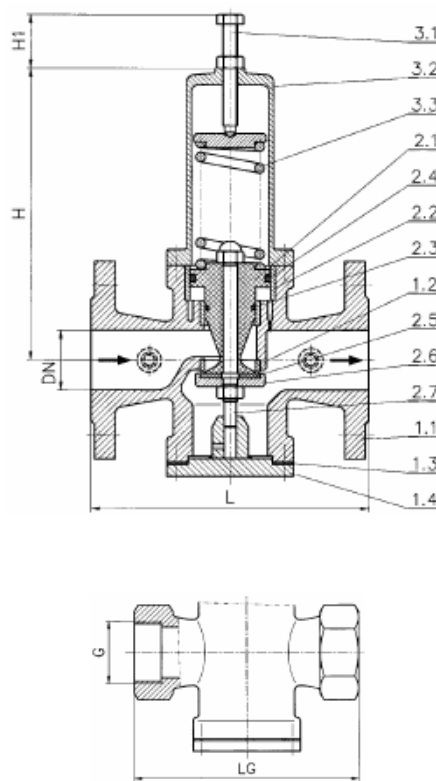
stem vertical and spring on top, other installation position at request

Leakage rate:

soft seat 0,005% , metallic seat 0,03Q_{MAX}

Working temperature:

max. 60°C, higher temperatur at request



Dimensions, service parameters

DN	L					LG	G	H	H1 ¹⁾	Q _{MAX} [m ³ /h]	P _{2,MAX} [bar]
	PN 16	PN 25	PN 40	PN 63	PN 100						
15	160	160	160	165	165	160	1/2"	190	60	1,5	63
20	160	160	160	165	165	160	3/4"	190	60	2,5	63
25	160	160	160	165	165	160	1"	190	60	3,5	63
32	230	230	230	235	235	200	5/4"	220	50	6,0	40
40	230	230	230	235	235	200	1 1/2"	250	50	9,0	40
50	230	230	230	235	235	200	2"	360	50	14	40
65	310	310	310	320	320	-	-	420	60	24	40
80	310	310	310	320	320	-	-	450	60	36	40
100	350	350	350	350	350	-	-	520	80	56	25
125	400	400	400	405	420	-	-	560	100	88	16
150	400	400	400	405	430	-	-	670	120	125	16
200	500	500	510	510	535	-	-	850	120	225	10
250	600	610	610	-	-	-	-	900	150	350	10
300	700	710	710	-	-	-	-	1160	160	500	8

¹⁾ may vary corresponding to set pressure

²⁾ for enlarged service parameters see type 2 / 310



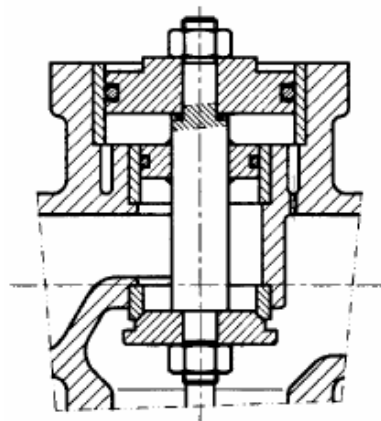
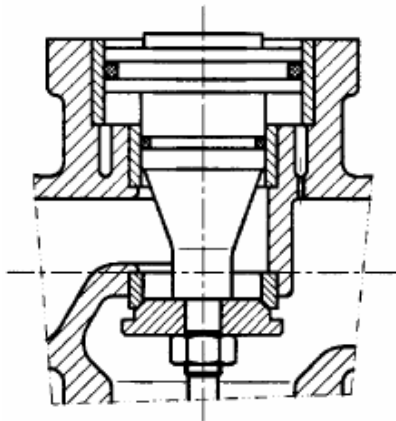
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Alternative designs



$p_1 \geq 10$ bar

DN ≥ 100 mm

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	asbestfrei	asbestrei	asbestfrei
1.4	cover	BA - Code 20 RSt 37 - 2 ¹⁾	BA - Code 11 GS - C25 ¹⁾	BA - Code 37 1.4571
2.1	control piston	PP ²⁾	PP ²⁾	BA - Code 37 1.4571
2.2	bush	RG 7	RG 7	DN 15 -50: none DN 65 - 300 : RG7
2.3	O - ring	NBR	NBR	NBR / FKM
2.4	O - ring	NBR	NBR	NBR / FKM
2.5	disk layer	NBr	NBR	-
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	set screw	A 2	A 2	A2 / A4
3.2	spring housing	BA - Code 1 GG - 25	BA - Code 1 GG - 25	BA - Code 37 1.4571
3.3	spring	spring steel	spring steel	spring steel
-	bolts, nuts	steel, galvanized	steel, galvanized	A2 / A4

¹⁾ occasionally RSt 37 - 2

²⁾ for DN 125 and larger upper part made of 1.4301; for $p_1 \geq 10$ bar fully made of 1.4301

Further designs and materials at request



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Installation, service, maintenance

Installation

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

Service

- The valves are delivered with present spring. At putting into operation the set pressure must be checked in any case and if necessary must be adjusted newly
- 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
- 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 valve

- Drain pipeline on both sides of the valve resp. unload pipeline ($p_1 = p_2 = 0$)
- Fully unload spring
- Dismount spring housing and cover on the bottom of the valve
- Dismount stem screwing
- Dismount inner parts to top resp. to bottom

Assembling the valve

- Assembling can be carried out by sequence vice versa
- Before mounting the spring housing check tightness of control piston
- After assembling is finished check body tightness of the whole valve
- Apply a slight loading on the spring and reinstall the valve into the pipeline
- For exact setting of secondary pressure p_2 see chapter "service"