

CONTROL VALVE, PRESSURE REDUCING, PN10/16

DN65-300

Diaphragm operated control valves for pressure reducing applications (PRV) automatically reduce a higher inlet pressure to a lower outlet pressure. The outlet pressure is kept constant, regardless of changes in flow rate or inlet pressure. The main control valve is pilot operated, capable of precise setting and easy adjustment of outlet pressure.

Product description:

Pressure reducing control valve (PRV), reduced bore, for water and neutral liquids to max. 70° C

Standards:

- Designed according to EN 1074 - 5
- Face to face according to EN 558 Table 2 Basic Series 1
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN 10/16

Test/Approvals:

- Hydraulic test according to EN 1074-1 and 5 / EN 12266
- Seat: 1.1 x PN. Body: 1.5 x PN.
- WRAS approved materials

Features:

Main control valve

- Lifted seat to avoid damage due to cavitation
- Geometry of regulating plug provides high ratio of travel Kv, resulting in optimal control performance
- Non-symmetric axial position of rubber diaphragm results in less stretch/stress near closed position
- All non-coated internals made of stainless steel AISI 316
- Body and bonnet of ductile iron with fusion bonded epoxy, 300micron, GSK approved, RAL 5017, according to DIN 30677-2 and WRAS-DVGW/W270/UBA.
- All rubber components with multiple approvals (EN 681-1, KTW, W270, ACS, WRAS)

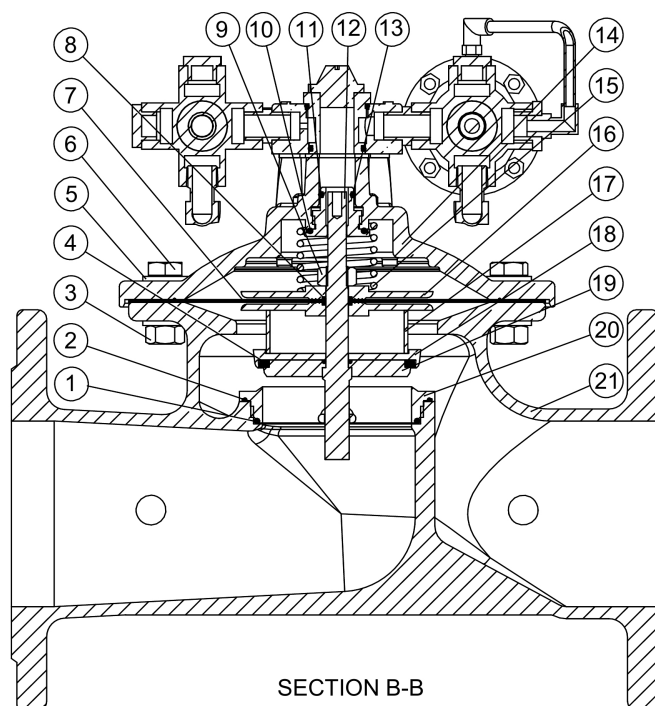
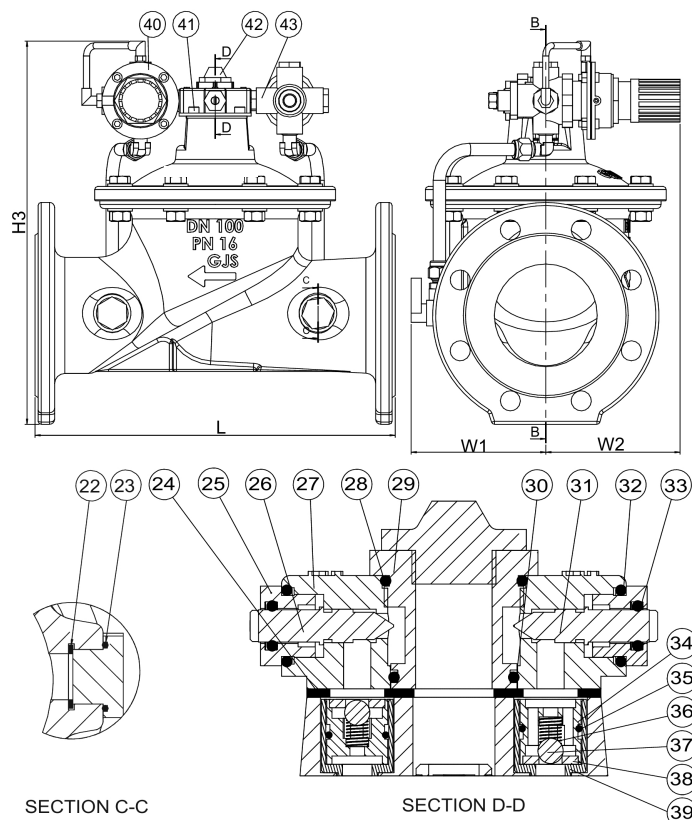
Pilot system

- Modular and compact design for easy application change
- Main components made of stainless steel AISI 316:
 - Distribution block:
 - Connecting main control valve to pilot system
 - Independent adjustment of opening and closing speed of main valve
 - Control orifice
 - Filter:
 - High capacity, easy to flush with possibility of back flushing
 - Mesh 100, high performance wire screen type
 - Hydraulic control block:
 - Includes balanced pilot valve providing more stable pressure set
 - Can be set up for different applications, using single-function modules (SFM) or multi-function modules (MFM)



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Component list:

1. O-ring	EPDM rubber	23. O-ring	NBR rubber
2. O-ring	EPDM rubber	24. Gasket	EPDM rubber
3. Hex nut	Stainless steel A4 anti friction	25. Bushing	Stainless steel 316
4. Plug sealing	EPDM rubber	26. Needle for closing control	Stainless steel 316
5. Washer	Stainless steel A4	27. Body	Stainless steel 316
6. Bolt	Stainless steel A4	28. O-ring	EPDM rubber
7. Diaphragm	EPDM rubber	29. Insert	Stainless steel 316
8. O-ring	EPDM rubber	30. O-ring	EPDM rubber
9. Hex nut	Stainless steel A4 anti friction	31. Needle for opening control	Stainless steel 316
10. Flat seal	EPDM rubber	32. O-ring	EPDM rubber
11. Flat seal	EPDM rubber	33. O-ring	EPDM rubber
12. Stem	Stainless steel 316	34. Body	Stainless steel 316
13. Stem guide	Stainless steel 316	35. O-ring	EPDM rubber
14. Bonnet	Ductile iron GJS-500-7 (GGG-50)	36. Spring	Stainless steel 316
15. Spring	Stainless steel 316	37. Ball	Stainless steel 316
16. Diaphragm support	Stainless steel 316	38. Seat	Stainless steel 316
17. Distance pipe	Stainless steel 316	39. Bushing	Stainless steel 316
18. Plug retainer	Stainless steel 316	40. Pilot valve	Stainless steel 316
19. Regulating plug	Stainless steel 316	41. Bolt	Stainless steel A4
20. Seat	Stainless steel 316	42. Mechanical air-vent	Stainless steel 316
21. Body	Ductile iron GJS-500-7 (GGG-50)	43. Filter	Stainless steel 316
22. Flat seal	EPDM rubber		

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dimensions:

	DN mm	Flange drilling	Pilot range bar	L mm	W1 mm	W2 mm	H3 mm	Theoretical weight / kg
	65	PN10/16	0.6 - 6	290	104	131	335	17
	65	PN10/16	5 - 11	290	104	131	335	17
	65	PN10/16	10 - 16	290	104	131	335	17
	65	PN10/16	0.1 - 1	290	104	131	335	17
	80	PN10/16	0.6 - 6	310	117	131	354	21
	80	PN10/16	5 - 11	310	117	131	354	21
	80	PN10/16	10 - 16	310	117	131	354	21
	80	PN10/16	0.1 - 1	310	117	131	354	21
	100	PN10/16	0.6 - 6	350	127	131	373	26
	100	PN10/16	5 - 11	350	127	131	373	26
	100	PN10/16	10 - 16	350	127	131	373	26
	100	PN10/16	0.1 - 1	350	127	131	373	26
	125	PN10/16	0.6 - 6	400	127	131	392	31
	125	PN10/16	5 - 11	400	127	131	392	31
	125	PN10/16	10 - 16	400	127	131	392	31
	125	PN10/16	0.1 - 1	400	127	131	392	31
	150	PN10/16	0.6 - 6	480	157	139	430	73
	150	PN10/16	5 - 11	480	157	139	430	73
	150	PN10/16	10 - 16	480	157	139	430	73
	150	PN10/16	0.1 - 1	480	157	139	430	73
	200	PN10	0.6 - 6	600	202	202	521	87
	200	PN10	5 - 10	600	202	202	521	87
	200	PN10	0.1 - 1	600	202	202	521	87
	200	PN16	0.6 - 6	600	202	202	521	87
	200	PN16	5 - 11	600	202	202	521	87
	200	PN16	10 - 16	600	202	202	521	87
	200	PN16	0.1 - 1	600	202	202	521	87
	250	PN10	0.6 - 6	730	252	252	638	144
	250	PN10	5 - 10	730	252	252	638	144
	250	PN10	0.1 - 1	730	252	252	638	144
	250	PN16	0.6 - 6	730	252	252	638	144
	250	PN16	5 - 11	730	252	252	638	144
	250	PN16	10 - 16	730	252	252	638	144
	250	PN16	0.1 - 1	730	252	252	638	144
	300	PN10	0.6 - 6	850	275	275	715	203
	300	PN10	5 - 10	850	275	275	715	203
	300	PN10	0.1 - 1	850	275	275	715	203
	300	PN16	0.6 - 6	850	275	275	715	203
	300	PN16	5 - 11	850	275	275	715	203
	300	PN16	10 - 16	850	275	275	715	203
	300	PN16	0.1 - 1	850	275	275	715	203