



PRESSURE REDUCING VALVE

DUCTILE IRON PILOT OPERATED, PN16

Model Number: **MV80-211**



FEATURES / CHARACTERISTICS

Working Pressure	PN16
Connection	Flanged to BS EN1092-2, PN16 (ex BS4504)
Working Medium	Water
Design Standard	BS EN 1074-5
Face to Face	EN558-1
Test Standard	ISO 5208/EN12266-1
Max. Inlet Pressure	16bar
Outlet Pressure Regulating Range	2-15bar

Highly sensitive and reinforced nylon fabric diaphragm, Stable performance and long service life, Precise pressure reducing, Simple operation and maintenance, Convenient adjusting

ON REQUEST

ANSI standards (subject to minimum order quantities).

HYDROSTATIC TEST PRESSURE

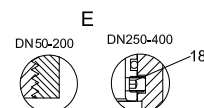
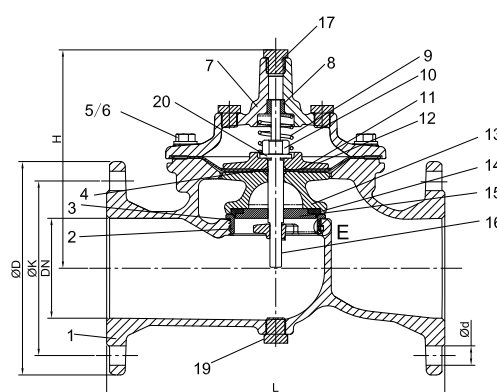
Shell- 24 bar
Seat- 17.6 bar

WORKING TEMPERATURE

16 Bar 0° C to 80° C water

MATERIAL SPECIFICATIONS-MAIN VALVE DN50-DN400

	PARTS	MATERIAL
1	Body	Ductile Iron
2	Seat	Stainless Steel AISI304/316
3	O-ring	NBR
4	O-ring	NBR
5	Bolt	Stainless Steel A2/A4
6	Washer	Stainless Steel A2/A4
7	Bonnet	Ductile Iron
8	Bush	Bronze
9	Spring	Stainless Steel AISI304/316
10	Caulking Nut	Stainless Steel A4
11	Diaphragm	EPDM+Nylon Reinforced Fabric
12	Fixing holder	Ductile Iron
13	Disc Holder	Ductile Iron
14	Seal	EPDM
15	Seat Retainer	Stainless Steel AISI304/316
16	Stem	Stainless Steel AISI304/316
17	Plug	Stainless Steel AISI304/316
18	Screw	Stainless Steel A2/A4
19	Plug	Stainless Steel A2/A4
20	Washer	Stainless Steel A2/A4



MAIN VALVE DN50-DN400

PRESSURE REDUCING VALVE

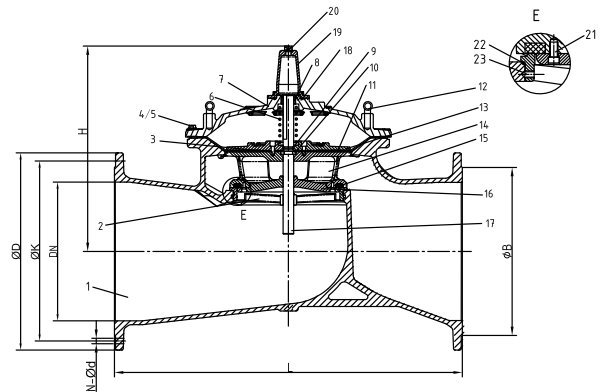
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MATERIAL SPECIFICATIONS-MAIN VALVE DN450-600

	PARTS	MATERIAL
1	Body	Ductile Iron
2	Seat	Stainless Steel AISI304/316
3	Screw	Stainless Steel A2/A4
4	Screw	Stainless Steel A2/A4
5	Screw	Stainless Steel A2/A4
6	Spring	Stainless Steel AISI304/316
7	Bonnet	Ductile Iron
8	Bush	Bronze
9	O-Ring	NBR
10	Fix Washer	Bronze
11	Diaphragm	EPDM+Nylon Reinforced Fabric
12	Eye Bolts	Carbon Steel
13	Fixing Holder	Ductile Iron
14	Disc Holder	Ductile Iron
15	Seal	EPDM
16	Seat Retainer	Ductile Iron
17	Stem	Stainless Steel AISI304/316
18	O-Ring	NBR
19	Cap	Ductile Iron
20	Plug	Stainless Steel AISI304/316
21	Screw	Stainless Steel A2/A4
22	O-Ring	NBR
23	Screw	Stainless Steel A2/A4



MAIN VALVE DN450-DN600

DIMENSIONS (mm)

Sizes		L	H	ØD	ØK	N-Ød	ØB
DN	inch						
50*	2"	230	177	165	125	4-Ø19	Ø99
65*	2 ½"	290	202	185	145	4-Ø19	Ø118
80	3"	310	182	200	160	8-Ø19	Ø118
100	4"	350	225	220	180	8-Ø19	Ø132
125	5"	400	243	250	210	8-Ø19	Ø156
150	6"	480	243	285	240	8-Ø23	Ø211
200	8"	600	345	340	295	12-Ø23	Ø266
250	10"	730	440	405	355	12-Ø28	Ø319
300	12"	850	490	460	410	12-Ø28	Ø370
350	14"	980	550	520	470	16-Ø28	Ø429
400	16"	1100	550	580	525	16-Ø31	Ø480
450	18"	1200	720	640	585	20-Ø31	Ø548
500	20"	1250	725	715	650	20-Ø34	Ø609
600	24"	1450	842	840	770	20-Ø37	Ø720

Note: Dimensions above are just for reference and subject to the final products. Changes are made without prior notice, please confirm with us if needed.

* Full Bore Main Valve



PRESSURE REDUCING VALVE

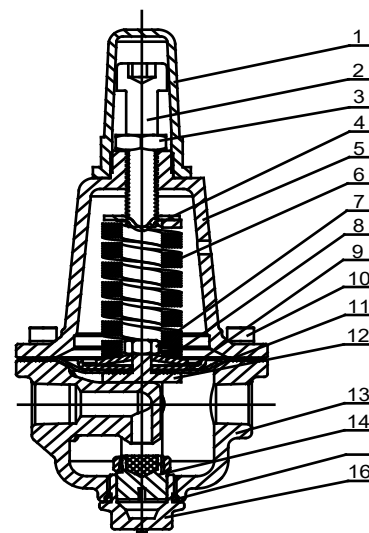
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MATERIAL SPECIFICATIONS-PILOT VALVE

	PARTS	MATERIAL
1	Cap	Plastic
2	Adjusting Screw	Stainless Steel AISI 304
3	Jam Nut	Stainless Steel A2
4	Spring table	Stainless Steel AISI 304
5	Bonnet	Stainless Steel AISI 304
6	Spring	Spring Steel (SiCrV)
7	Nut	Stainless Steel A2
8	Spring table	Spring Steel Mn-steel+Ni Plated
9	Fixing Holder	Stainless Steel AISI 304
10	Screw	Stainless Steel A2
11	Diaphragm	EPDM+Nylon Reinforced Fabric
12	Yoke	Stainless Steel AISI 304
13	Body	Stainless Steel AISI 304
14	Disc	Stainless Steel AISI 304+EPDM
15	O-Ring	NBR
16	Plug	Stainless Steel AISI 304



PILOT VALVE

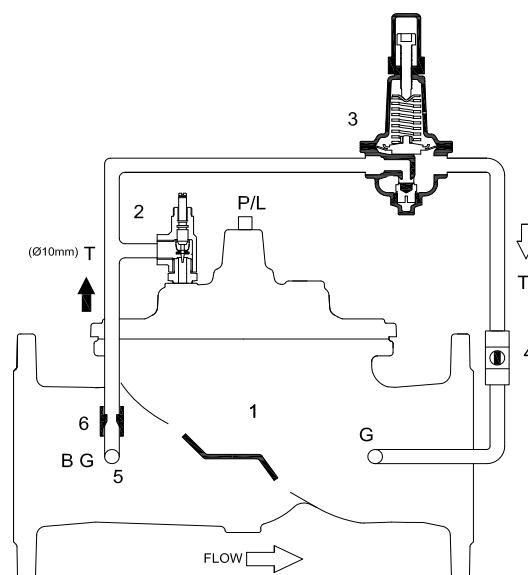
MATERIAL SPECIFICATIONS-ASSEMBLY

	PARTS	MATERIAL
1	Main Valve	Ductile Iron
2	Needle Valve*	Stainless Steel AISI 304/316
3	Pressure Reducing Valve*	Stainless Steel AISI 304/316
4	Ball Valve*	Stainless Steel AISI 304/316
5	Strainer*	Stainless Steel AISI 304/316
6	Restriction*	Stainless Steel AISI 304/316
T	Tube*	Stainless Steel AISI 304/316

* Standard material Stainless Steel AISI 304

OPTION & ACCESSORIES

- B Ball valve
- G Pressure gauge
- P Position indicator
- L Limit Switch



VALVE ASSEMBLY



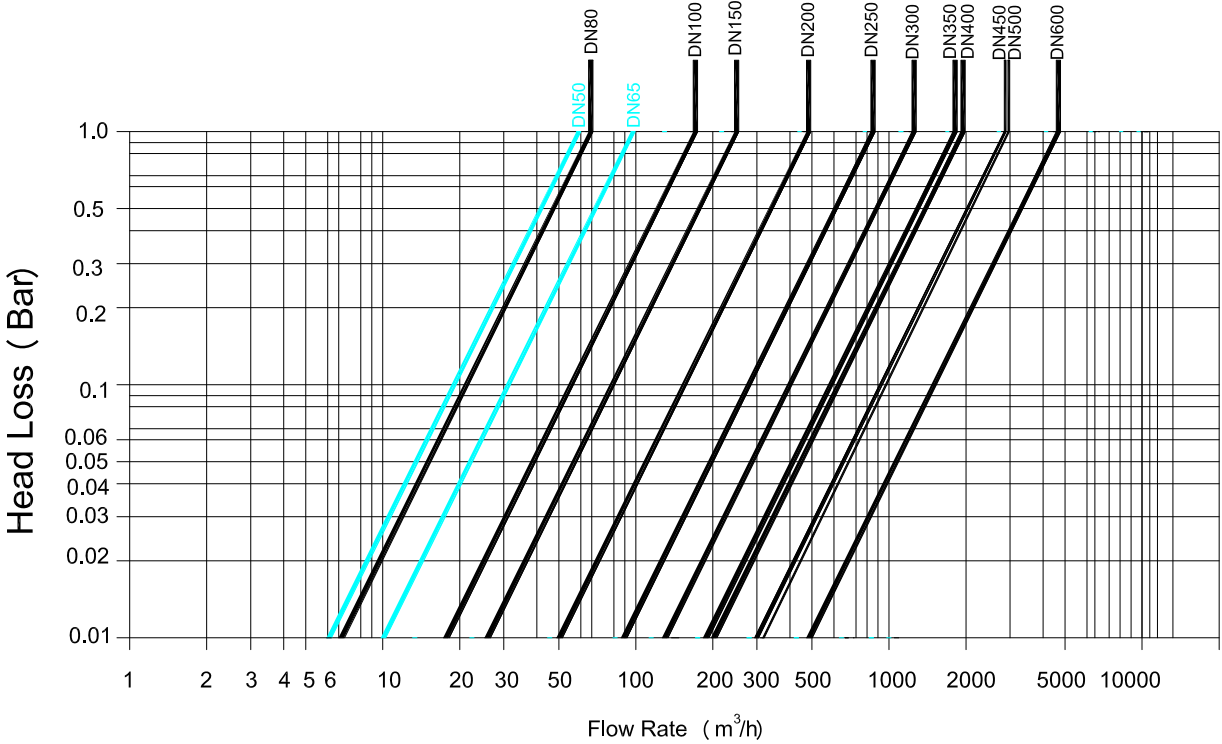
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FLOW RATE VS HEADLOSS CHART



SIZE	DN	50*	65*	80	100	125	150	200	250	300	350	400	450	500	600
	inch	2"	2 ½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Flow Rate	(m ³ /h)	60	99	72	162	258	258	487	830	1286	1838	1927	2808	2916	4816

* Full Bore Main Valve

CAVITATION CHART

