Pressure Reducing Valve
F8020 Series

WALTER F8020 model Pressure Reducing Valves automatically reduces a higher inlet pressure to a steady lower downstream pressure,regardless of changing flow rate and/or varying inlet pressure. This valve is an accurate, pilot-operated regulator capable of holding downstream pressure to a re-determined limit. When downstream pressure exceeds the pressure setting of the control pilot, the main valve and pilot valve close drip-tight.



Technical Data	
Size range	DN50-DN1200
Pressure range	PN10-16-25-40/Class 150-300
Temperature	-10°℃ to +80℃
Design	EN 1074-5
Face to face	EN 558-1 Series 1
Flange drilling	EN 1092-2 / ISO 7005-2 / ANSI / AS2129 or AS4087
Coating	Thermoplastic Powder Epoxy
Testing	EN 12266-1 / ISO 5208
Marking	EN 19
Coating Blue Color	RAL 5005
	RAL 5010
	RAL 5015
	Custom made

Application Range

- Storage Tanks / Reservoir
- Pump Stations
- Water Supply Systems
- Water treatment and distribution systems
- Power Station Cooling Lines

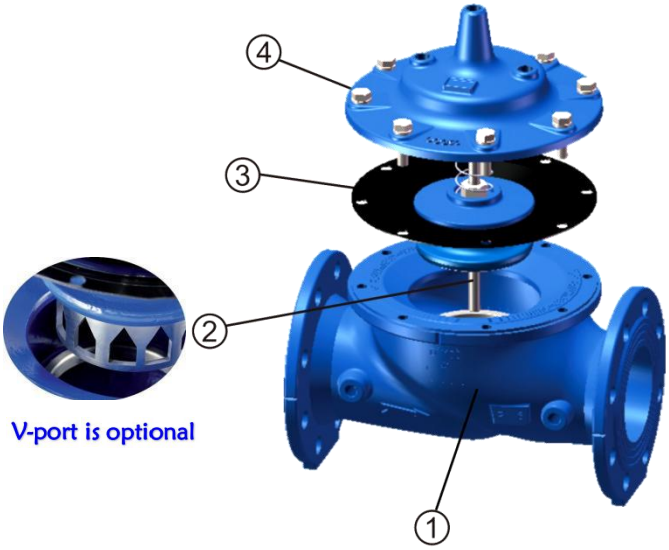
Testing and Remarks

- Body Strength Test: BS EN 12266-1: 1.5 x PN
- Seal Tightness Test: BS EN 12266-1: 1.1 x PN

* Valve Body can be Choose Stainless Steel and Bronze ,which suitable for Oil and Seawater

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Technical Datasheet



V-port is optional

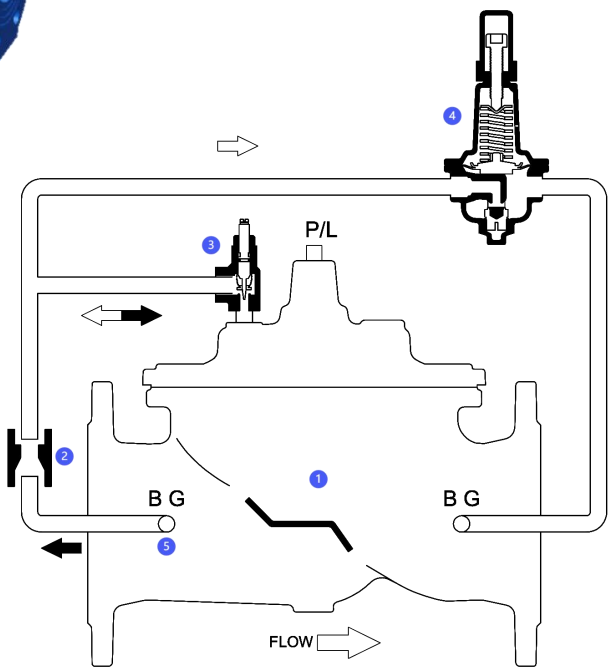
① Body in Ductile Cast Iron GJS-500-7

② Shaft, Obturator and Seat are in Stainless Steel

③ Diaphragm in Rubber + Nylon Fiber
(tested for 1,000,000 cycles)

④ Internal/External bolts are in Stainless Steel (A2-A4)

① Main Valve	B. Ball Valve
② Restriction	G. Pressure Gauge
③ Needle Valve	P. Position Indicator
④ Pilot Valve	L. Limit Switch
⑤ Strainer	

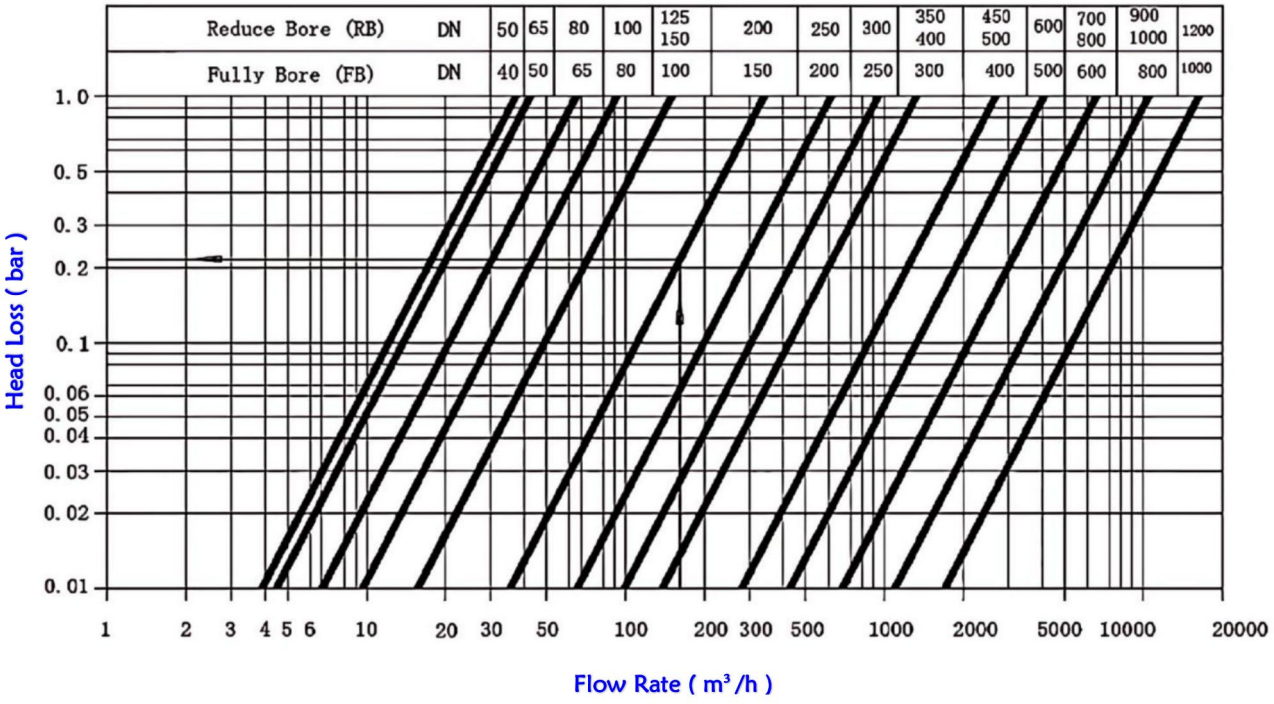


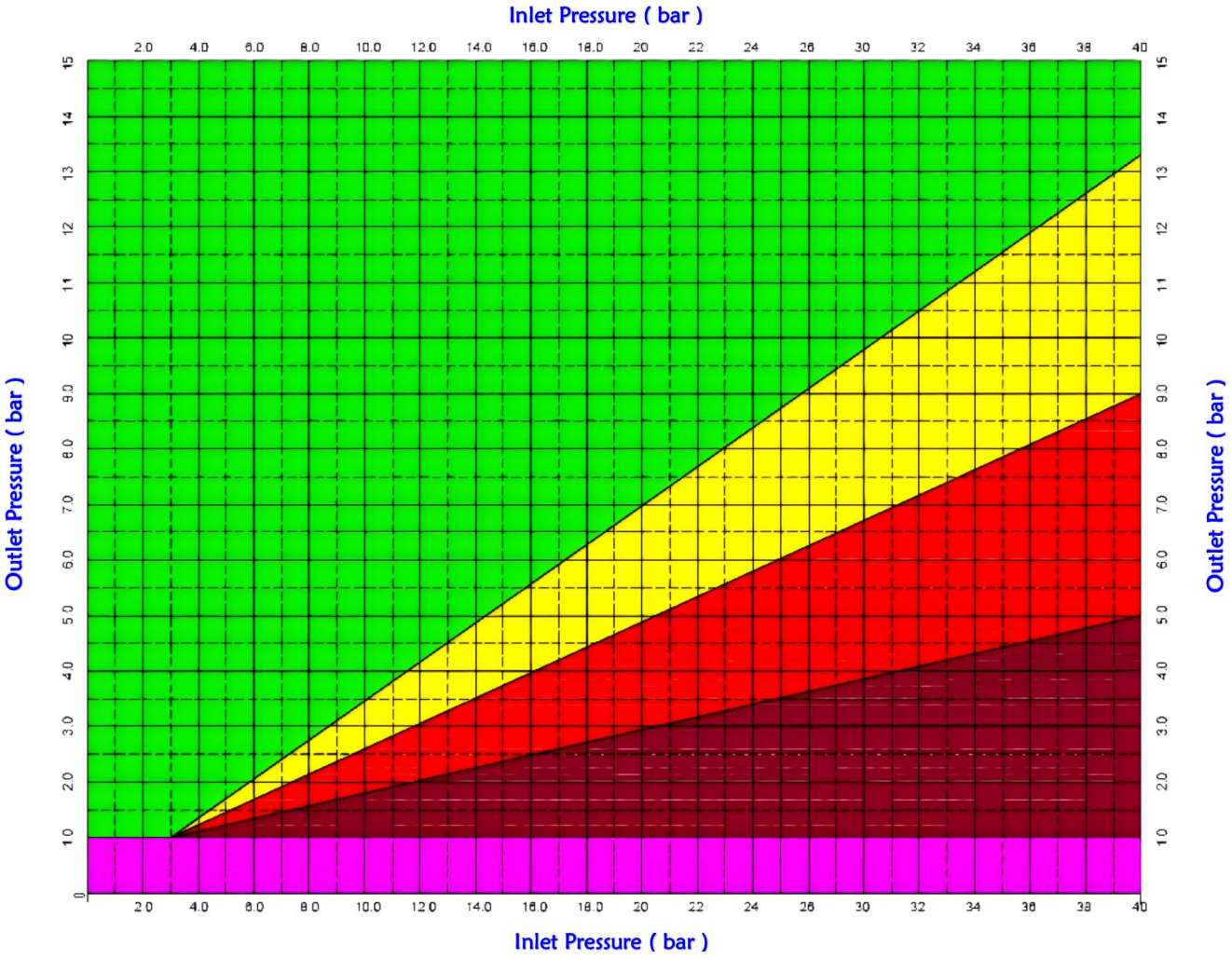
Features

- Top and seat ring guided stem and diaphragm assembly for long life and reliability.
- All iron components are fusion epoxy bonded for corrosion resistance.
  Full coating on the body and disc internally & externally with an average of 250 microns. Higher coating thicknesses are available when required.
- Easy maintenance without removal from the main line.
- Nylon reinforced diaphragm for long term service. & Drip tight shut off.
- Globe design for superior control characteristics.
- Ductile iron bodies for higher strength and durability. Stainless Steel or Bronze bodies can be optional
- Corrosion resistant stainless steel seat and disc retainer ring.
- Various pilots and accessories available for configuration into many different applications.
- Special V-Port and double chamber are options, please consult factory.
- Hydro-static test pressure for seat: PN x 1.1 , for shell: PN x 1.5 according to EN 12266-1

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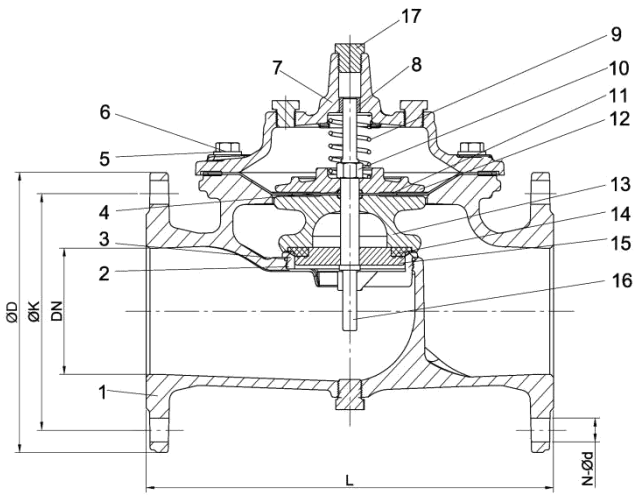
Head Loss Curve





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Material Specification
DN50 - 350



Body material can be choose Stainless Steel, Bronze

NO.	Part Name	Material	Standard
1	Body	Ductile Iron	GJS 500-7
2	Seat	Stainless Steel	AISI 304
3	O-Ring	Rubber	NBR
4	O-Ring	Rubber	NBR
5	Bolt	Stainless Steel	A2-70
6	Washer	Stainless Steel	A2
7	Bonnet	Ductile Iron	GJS 500-7
8	Bush	Brass	C37710
9	Spring	Stainless Steel	AISI 304
10	Nut	Stainless Steel	A2
11	Diaphragm	Rubber+Nylon	EPDM+Nylon Fabric
12	Fixing holder	Ductile Iron	GJS 500-7
13	Disc Holder	Ductile Iron	GJS 500-7
14	Seal	Rubber	EPDM
15	Seat Retainer	Stainless Steel	AISI 304
16	Stem	Stainless Steel	AISI 304
17	Plug	Stainless Steel	AISI 304

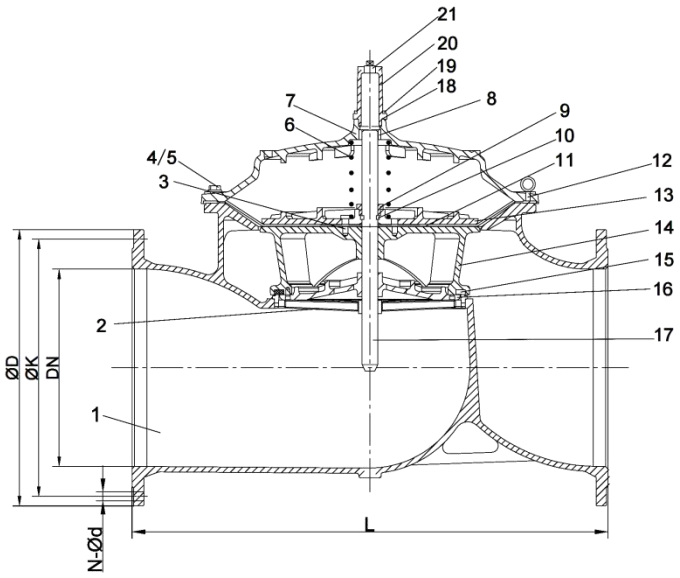
Dimension PN10/16/25/40 (mm)

DN	L	ΦD				ΦK				N-Φd			
		PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
50	230	165				125				4-Φ19			
65	290	185				145				4-Φ19	4-Φ19	8-Φ19	
80	310	200				160				8-19			
100	350	220		235		180		190		8-Φ19	8-Φ19	8-Φ23	
125	350	250		270		210		220		8-Φ19	8-Φ19	8-Φ28	
150	480	285		300		240		250		8-Φ23	8-Φ23	8-Φ28	
200	600	340		360	375	295		310	320	8-Φ23	12-Φ23	12-Φ28	12-Φ31
250	730	405		425		350	355	370		12-Φ23	12-Φ28	12-Φ31	
300	850	460		485	/	400	410	430		12-Φ23	12-Φ28	16-Φ31	/
350	850	520		555		460	470	490		16-Φ23	16-Φ28	16-Φ34	

*** Please consult factory for other size / standard.**

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Material Specification
DN400 - 1200



NO.	Part Name	Material	Standard
1	Body	Ductile Iron	GJS 500-7
2	Seat	Stainless Steel	CF8
3	Screw	Stainless Steel	A2
4	Screw	Stainless Steel	A2
5	Washer	Stainless Steel	A2
6	Spring	Stainless Steel	AISI 304
7	Bonnet	Ductile Iron	GJS 500-7
8	Bush	Copper Alloy	Bronze /C61900
9	Stem Nut	Copper Alloy	Bronze /C61900
10	Fix Washer	Stainless Steel	AISI431
11	Diaphragm	Rubber+Nylon	EPDM+Nylon Fabric
12	Eye bolts	Carbon Steel	1040
13	Fixing holder	Ductile Iron	GJS 500-7
14	Disc Holder	Ductile Iron	GJS 500-7
15	Seal	Rubber	EPDM
16	Seal Retainer	Ductile Iron	GJS 500-7
17	Stem	Stainless Steel	AISI304
18	O-Ring	Rubber	NBR
10	Screw	Stainless Steel	A2
20	Cap	Stainless Steel	AISI304
21	Plug	Stainless Steel	AISI304

Dimension PN10/16/25 (mm)

DN	L	ΦD			ΦK			N-Φd		
		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
400	1100	580	580	620	515	525	550	16 -Φ28	16 - Φ31	16 - Φ37
450	1200	640	640	670	565	585	600	20 -Φ28	20 - Φ31	20 - Φ37
500	1250	715	715	730	620	650	66	20 -Φ28	20 - Φ34	20 - Φ37
600	1450	840	840	845	725	770	770	20 -Φ31	20 - Φ37	20 - Φ40
700	1650	910	910	960	840	840	875	24 -Φ31	24 - Φ37	24 - Φ43
800	1850	1025	1025	1085	950	950	990	24 -Φ34	24 - Φ40	24 - Φ49
900	2050	1115	1125	/	1050	1050	/	28 - Φ34	28 - Φ41	/
1000	2250	1230	1255	/	1160	1170	/	28 - Φ37	28 - Φ44	/
1200	2650	1455	1485	/	1380	1390	/	28 - Φ40	28 - Φ49	/