

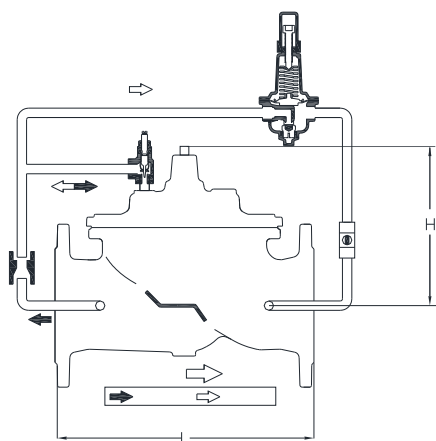
PN16

Pressure Reducing Valve

Fig. 1320

Description

Fig.1320 Pressure Reducing Valve automatically reduces a higher inlet pressure to a steady lower downstream pressure, regardless of changing flow rate and/or varying inlet pressure.



Valve Standard

Design Standard: BS EN 1074-5

Face to Face Standard: EN558-1

Flange Connection Standard: BS EN1092-2 PN16

Pressure Ratings

Working pressure	16bar
Testing Pressure	Shell: 25bar Seal: 17.6bar

Materials List

Part Name	Material	Specification
Body	Ductile Iron	GJS500-7
Seat	Stainless Steel	ANSI 304
O-Ring	NBR/EPDM	-
Bonnet	Ductile Iron	GJS500-7
Guide Bush	Bronze	-
Spring	Stainless Steel	ANSI 304
Stem Nut	Steel	A2
Diaphragm Washer	Ductile Iron	GJS500-7
Diaphragm	EPDM/NBR+Nylon Fabric	
Disc Retainer	Ductile Iron	GJS500-7
Seal Ring	EPDM	-
Disc Guide	Stainless steel	ANSI 304
Stem	Stainless steel	ANSI 304
Restriction	Stainless steel	ANSI 304
Needle Valve	Bronze/Stainless Steel	-
Pressure Relief Pilot	Stainless steel	ANSI 304
Ball Valve	Bronze/Stainless Steel	-
Strainer	Stainless steel	ANSI 304
Tube	Bronze/Stainless Steel	-

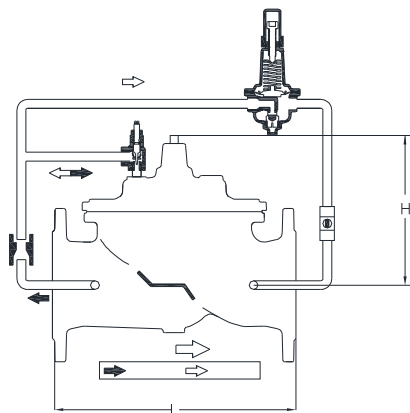
Dimensions(mm)

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	230	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
H	139	159	179	214	275	333	407	476	526	580	624	624	720	835

Note: Dimensions above are just for reference, please confirm with us when order.

PN16

Pressure Reducing Valve (Low Flow By-Pass)

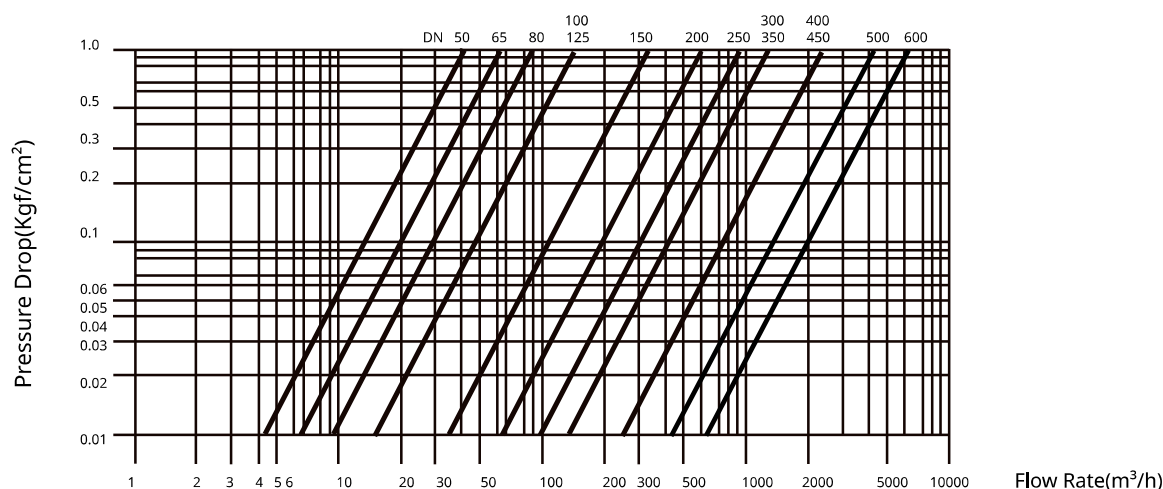


Dimensions (mm)

DN	50	65	80	100	125	150	200
L	230	290	310	350	400	480	600
H	139	159	179	214	275	333	407
DN	250	300	350	400	450	500	600
L	730	850	980	1100	1200	1250	1450
H	476	526	580	624	624	720	835

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.

Flow Chart of Fully opened Main Valve



Cavitation Chart

When the inlet and outlet pressure ratio is very large, the opening of the main valve is relatively small, the speed of water flow through the seat will be very large, high-speed water impact on the seat and the body cavity, at this time will produce serious cavitation damage. It also produces jitter and noise. The green area below is where the valve can work safely. Therefore, customers are advised to select the import and export pressure range according to the table below.

