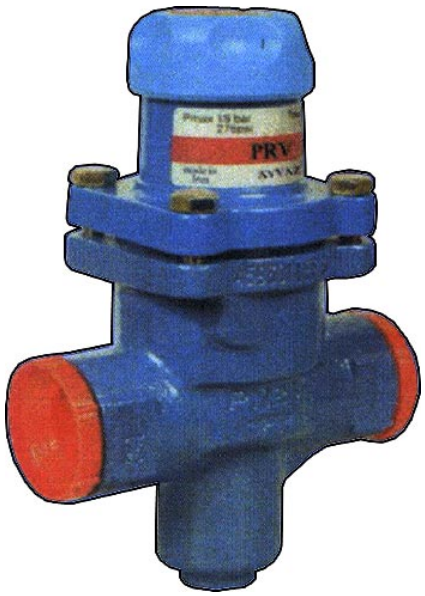
AYVAZ

Pressure Reducing Valve PN25 (Direct Acting) BDV 25



BDV 25 Pressure Reducing Valve

Main Features

AYVAZ BDV 25 Direct Acting Pressure Reducing Valve is suitable for steam and gases i.e. compressed air

OPERATING CONDITIONS	
Max.Body Design	PN 25
Max.Design Temperature (°C)	210
Max.Upstream Pressure (barg)	19
Max.Downstream Pressure (barg)	8.6
Max.Recommended turndown ratio at max. Flow	10:1
Max.Cold Hydraulic Test Pressure (barg)	38

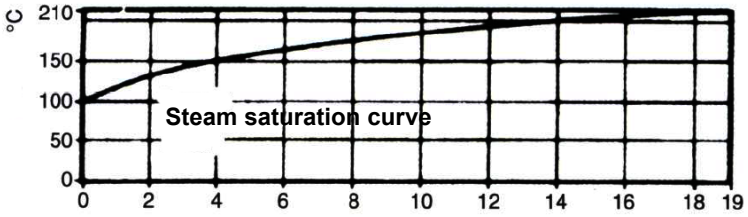
WEIGHTS			
Connections		Screwed	
Sizes	1/2”	3/4”	1”
Weights (kg)	1.60	1.70	2.00

CONNECTIONS	
Screwed	BSP acc. to BS 21 or NPT

Applications
Steam / Gases / Compressed Air

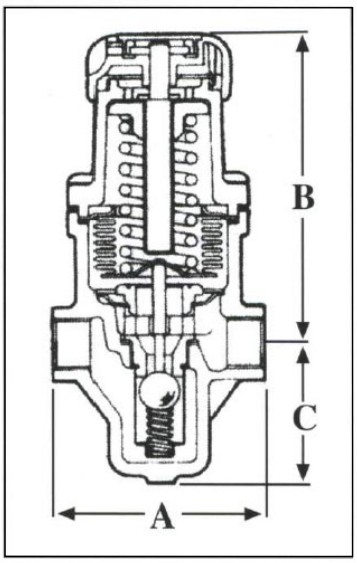
Installation
BDV 25 shall be installed on a horizontal pipeline with the flow direction as indicated on the body by arrow.

Operating Ranges



BDV 25 has a coloured identity discs indicating the adjustment range.

Grey	:	0.14 - 1.70 barg
Green	:	1.40 - 4.00 barg
Orange	:	3.50 - 8.60 barg

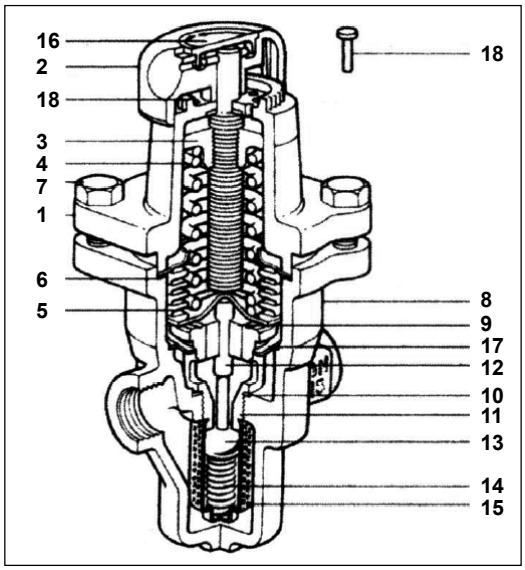


Capacities Kvs (m3/h)
For steam and compressed air sizing. Full lift capacity for safety valve sizing purposes are shown below.

Dimensions

inch	A	B	C
1/2”	85	126	65
3/4”	98	126	65
1”	110	126	65

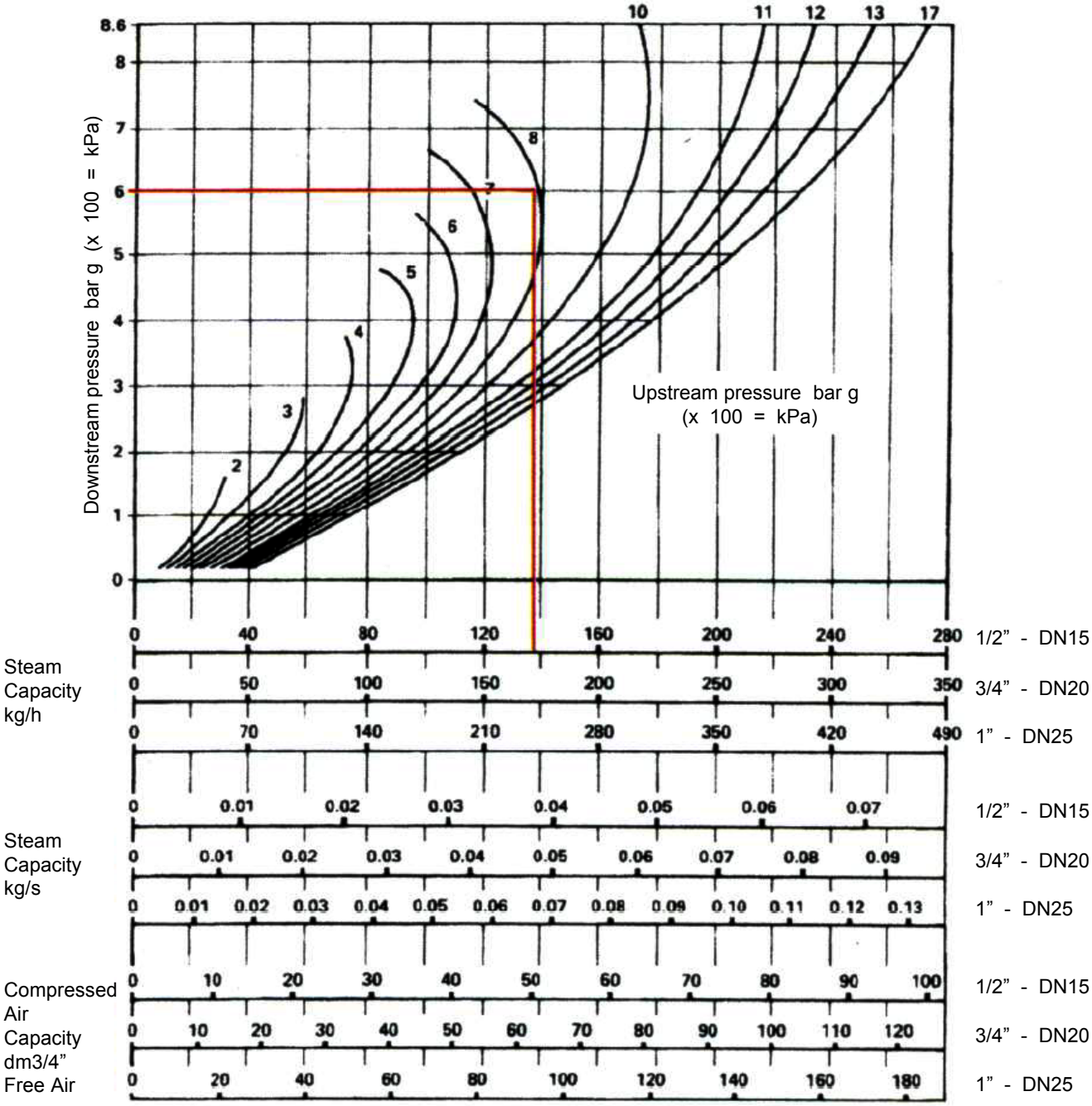
	1/2”	3/4”	1”
Kvs	1.5	2.5	3.0



No	Part	Material
1	Spring Housing	Al-Epoxy coated LM24
2	Adjustment Hand Wheel	Plastic-Polypropylene
3	Top Spring Nut	Cast Iron
4	Pressure Adjustment Spring	Silicon Chrome Spring Steel / BS 2803685 A55
5	Bellows	Stainless Steel AISI 316L / 316Ti
6	Bellows Gasket	Stainless Steel
7	Cover Bolt	M8 x 25 mm Steel Gr8.8
8	Body	SG Iron - GGG40.3
9	Guide Bush	Graphite filled PTFE
10	Pushrod	Stainless Steel
11	Seat	Stainless Steel
12	Valve Seat Gasket	Stainless Steel
13	Valve	Stainless Steel AISI 316
14	Valve Spring	Stainless Steel AISI 316
15	Strainer Screen	Stainless Steel AISI 316
16	Spring Range	Polypropylene
17	Bulkhead plate	Stainless Steel AISI 316
18	Tamperproof Pin	Mild Steel - Copper Plated

Note : Items 9, 10, 11, 13, 14 and 15 are an assembly.

STEAM AND COMPRESSED AIR CAPACITIES DIAGRAM



How to Use the Chart :

The curved lines labeled 2, 3, 4, 5, etc. Represent upstream pressures. Downstream pressures are read along the vertical line on the left hand side of the chart.

Example :

Required reducing valve to pass 120 kg/h reducing from 8 to 6 bar. From the downstream pressure of 6 bar on the left hand side of the chart extand out horizontally until the line meets the curved 8 bar upstream line. At this point read vertically and find valve 1/2"