



682

Bronze Pressure Reducing Valve Suitable for Water, Air & Neutral Gases PN16 or PN40 Flanged



The 682 is a good quality pressure reducing valve which is particularly suitable for controlling air, neutral gasses & low flow water applications up to 95°C in a broad range of applications and industries.

The valve has a 1/4 BSP pressure gauge ports on both sides so that the pressure can be accurately monitored and adjusted. Gauges can be supplied separately if required.

Approvals, Features & Benefits

- WRAS & DVGW approved
- Lloyds, DNV, BV, ABS & GL type approved
- IMPA coded
- Direct acting
- Ports for optional pressure gauges
- Built in filter for protection

Pressure & Temperature

Maximum inlet pressure:-

PN16 - 16 bar
PN40 - 40 bar*

*25 bar for low pressure version

Temperature range:-

-10°C to 95°C

SIZE	DN15 PN16/40	DN20 PN16/40	DN25 PN16/40	DN32 PN16/40	DN40 PN16/40	DN50 PN16/40	DN65 PN16	DN65 PN40	DN80 PN16/40	DN100 PN16
L	130	150	160	180	200	230	290	290	310	350
h	46	50	55	68	73	80	89	89	96	112
H	102	130	130	130	165	165	235	235	235	320
H1	128	150	150	150	185	185	235	235	235	320
D	95	105	115	140	150	165	185	185	200	220
K (PCD)	65	75	85	100	110	125	145	145	160	180
nxd (Flange Bolts)	4 x M12	4 x M12	4 x M12	4 x M16	4 x M16	4 x M16	4 x M16	8 x M16	8 x M16	8 x M16
Weight Kg	3	4.5	5	6	9	11	20	20	22	40
Standard Version 1 - 8 bar Low Pressure Version 0.5 - 2 bar (DN15 - DN50 only) High Pressure Version 5 - 15 bar (DN15 - DN50 only)										
Outlet Pressure Range										
Coefficient of Flow K_{vs} †	3	5.8	6.7	7.6	12.5	15	40	40	50	90

† The K_{vs} value was determined according to DIN EN 60534-2-3

Water Flow Capacities (Assumed pressure drop of 1 Bar). Please contact sales for air capacities

Inlet Pressure Bar	Outlet Pressure Bar	DN15 (m³/h)	DN20 (m³/h)	DN25 (m³/h)	DN32 (m³/h)	DN40 (m³/h)	DN50 (m³/h)	DN65 (m³/h)	DN80 (m³/h)	DN100 (m³/h)
2	1.8		1.5	1.7	2.2	4.6	5.5	18.6	22.3	
	1.5	-	1.5	1.8	2.3	5.5	6.6	21.0	25.2	-
	1.1		1.2	1.4	1.9	5.5	6.6	22.0	26.4	
5	4.0		4.7	5.5	7.1	10.5	13.7	16.8	20.2	
	2.0	-	4.0	4.7	6.1	11.8	15.3	24.6	29.5	-
	1.0		3.7	4.3	5.6	10.1	13.1	24.0	28.8	
10	8.0		6.0	7.0	8.4	10.9	14.2	13.2	15.8	
	4.0	-	6.6	7.8	9.4	14.0	18.3	22.8	27.4	-
	2.0		5.0	5.9	7.0	13.3	17.2	37.2	44.6	
15	8.0		6.5	7.6	9.9	10.9	14.1	18.0	21.6	
	4.0	-	5.4	6.3	8.2	12.2	15.8	27.0	32.4	-
	1.0		3.0	3.5	4.6	11.3	14.7	34.8	41.8	
20	8.0		5.3	6.2	8.1	10.1	13.1	19.8	23.8	
	4.0	-	4.4	5.2	6.7	9.7	12.6	28.8	34.6	-
	1.0		2.2	2.6	3.4	10.5	13.7	39.0	46.8	
25	8.0		4.4	5.2	6.7	9.7	12.6	19.0	22.8	
	4.0	-	3.9	4.6	6.0	9.2	12.0	28.0	33.6	-

MATERIALS

Body	Bronze	Strainer	Stainless Steel (316)
Inner Wetted Parts	Bronze & Stainless Steel (316)	Seals	EPDM
Spring	Stainless Steel (A228)		

OPTIONS

FKM Seals
All Stainless Steel Valve Inserts
Service Pack (Seals & Diaphragm) 65 - 80mm Only
Pressure Gauges