



684
Bronze
Pressure Reducing Valve
For Air, Gases & Liquids
High Performance & Capacity
Direct Acting
BSPP Threaded



The 684 is suitable for liquids, air and gases, supplied with a diaphragm as standard or an optional piston version. Pressure adjustment is carried out without tools via the ergonomically formed hand-wheel.

The extremely small pressure loss in the pressure adjusting area leads to these high performance and capacity.

Approvals, Features & Benefits

- 684-SM with diaphragm
- 684-SK & 684-HK with piston
- High pressure & capacity
- Direct acting
- Quiet operation
- Economical & efficient
- Pressure gauge port
- Ducted exhaust connection

Pressure & Temperature

Max upstream pressure:-
60 bar

Downstream pressure range:-
684-SM : 0.5 to 15 bar
684-SK : 5 to 30 bar
684-HK : 10 to 50 bar

Temperature range:-

EPDM (Standard) : -40°C to 120°C
FKM : -10°C to 120°C

DN	6	10	15	20	25	40	50
G (BSP)	¼	⅜	½	¾	1	1½	2
L	68	68	60	78	102	136	136
H	120	120	120	180	215	260	270
h	33	33	33	40	56	63	70
SW	26	26	26	32	44	58	70
D (Ducted Exhaust Connection)	¼ BSP	¼ BSP	¼ BSP	¼ BSP	¼ BSP	¼ BSP	¼ BSP
Flow K_{Vs} (m³/h)¹	1.6	1.6	1.6	3.4	5.5	12.7	12.7
Weight Kg	1.2	1.2	1.2	2.8	5.3	9.4	10.2

¹ The K_{Vs} value was determined according to DIN EN 60534-2-3.

MATERIALS

Inlet Body	Bronze (CC499K)
Outlet Body	Bronze (CC499K)
Internal Parts	Brass (CW617N)
Spring	Steel (Anti-rust protection)
Seals	EPDM (Standard) • FKM

OPTIONS

Degreased	For oxygen applications
Nickel Plated Finish	
Pressure Gauges	63mm dial ¼" BSP connection - various pressure ranges