

Spring Loaded Pressure Maintaining Valve

L50 is a 1/4" unbalanced, spring loaded, pressure maintaining valve, used for quick and accurate control of inlet pressures. Ideal for low, and medium pressure applications, It is manually adjustable for maintaining a set pressure of upstream media, it's heavy duty construction allows it to be installed in the most arduous of environments.



Standard Features

Valve Size:

- 1/4" UNBALANCED

Materials of construction:

- BODY - STAINLESS STEEL - BS EN 10088 1.4541
- SPRING HOUSING - STAINLESS STEEL - BS 3146 ANC.4 BFC. 316
- SEAT - DELRIN
- ELASTOMERS - HIGH NITRILE

Connections:

- LINE 3/8" BSPP (INLET & OUTLET)

Maximum Inlet Pressure:

- 242 BAR (3511 PSI)

Set Pressure Range:

- 0 - 242 BAR (0 - 3511 PSI)

Media:

- GASES

Weight:

- 3.4 Kg (7.5 lb)

Additional Features

- BASE MOUNTING
- ADJUSTABLE

Options

Materials of construction:

- ELASTOMERS - FLUOROCARBON OR EPDM
- BODY - ALUMINIUM - L168 T6511

Body connections:

- NPT LINE CONNECTIONS

Applications

- Compressors
- Dryer systems
- Filter systems
- Brewery plants
- Gas & liquid sampling
- Pump pressure control
- Research laboratories
- Aerospace ground support

Ordering Information

TYPE	VALVE SEAT SIZE	MATERIAL OPTION	CONNECTIONS	OUTLET PRESSURE	ELASTOMER
L50	C (1/4")	B9 (St. Stl.) T0 (ALUM.)	E2 (3/8" BSPP) A2 (3/8" NPT)	P (0 - 10 BAR) W (0 - 52 BAR) Y (0 - 103 BAR)	N (NITRILE) V (FLUOROCARBON) E (EPDM)

ORDERING INFORMATION

EXAMPLE:

L50CB9E2PV

Notes

Technical Specifications

Pressure

	PRESSURE
TEST (PROOF) PRESSURE	375 BAR
MAXIMUM INLET PRESSURE	250 BAR

Set Pressure Ranges

PRESSURE
0 - 10 BAR (0 - 145 PSI)
0 - 52 BAR (0 - 755 PSI)
0 - 103 BAR (0 - 1495 PSI)

Leakage

STANDARD ON REQUEST	BUBBLE TIGHT (TYPICALLY 10 ⁻⁶ AT CM ³ SEC ⁻¹) HELIUM LEAK TESTED TO 10 ⁻⁸ AT CM ³ SEC ⁻¹
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Temperature Range

	TEMPERATURE	BODY MATERIAL
STANDARD	-10°C TO +100°C	ALL
OPTION	-40°C TO +150°C	CONSULT IVP

Valve Size and Flow Area

NOMINAL SIZE	6.35mm (1/4")
ORIFICE AREA A1	32mm ² (0.049 in ²)
PORT AREA A2	71mm ² (0.11in ²)
FLOW COEFFICIENT	Kv = 0.95 (Cv = 1.1)

Spares Code

SPARES	OUTLET PRESSURE	ELASTOMER
L50S	P (0 - 10 BAR) W (0 - 52 BAR) Y (0 - 103 BAR)	N (NITRILE) V (FLUOROCARBON) E (EPDM)

Spares BOM

ITEM	DESCRIPTION	MATERIAL	QTY
1	'O' RING	Rubber	1
2	WASHER	Steel	1
3	NEEDLE BEARING	Steel	1
4	'O' RING	Rubber	1
5	'O' RING	Rubber	1
6	VALVE	BS 3S 145	1
7	SEAT	Derlin	1

Technical Specifications

