

J98

Slam Shut Valve Nominal Diameter DN150 & DN200



This product is discontinued!

Applications

- Industrial
- Commercial

Brief information

Operation: The J98 Slam Shut Valve protects gas installations against dangerous overpressure conditions and is normally fitted on the inlet side of the regulator. An impulse pipe connects the diaphragm chamber to the outlet side of the regulator. When the pressure increases above a predetermined value the trigger mechanism actuates and the valve slams shut.

The J98 incorporates a visual valve position indicator. Resetting can only be achieved manually and a push button valve is provided for pressure equalisation. The J98 can be mounted in any orientation

Approvals: The J98 has been approved to module B + D of the PED 97/23/EC by BSI (Notified body No. 0086). It is classified as Category IV equipment and a safety accessory.

Technical Data:

Maximum inlet pressure:	10 bar (145 psig)
Maximum trip pressure:	3.5 bar (50 psig)

Capacity:

The J98 has been designed with a high flow coefficient and the flow rate can be calculated using:

$$Q = K \cdot P_o \sqrt{(P_i - P_o)} \quad \text{when } P_i / P_o < 1.894$$
$$Q = K P_i / 2 \quad \text{when } P_i / P_o > 1.894$$

where Q = Flow Rate m³ / hr (SG = 0.6)

P_i = Inlet Pressure Absolute (Bar)

P_o = Outlet Pressure Absolute (Bar)

K = Flow Constant

150mm = 49270 200mm = 78012

Assuming absolute pressure = 1.014 Bar

To convert to ft³ / hr multiply by 35.315

To convert to specific gravities other than 0.6 multiply by

$$\sqrt{\frac{0.6}{\text{specific gravity of gas}}}$$

Servicing: The J98 has been designed for ease of access, inspection and servicing of all internal components. A standard soft spares kit is available for all sizes.

Size:	Low Pressure	Medium Pressure	High Pressure
DN150	SK9814-01	SK9814-02	SK9814-05
DN200	SK9816-01	SK9816-02	SK9816-05

Main features

- Sizes DN 150 & DN200 (for DN50, DN80 & DN100 see S100)
- Temperature range -20°C to +70°C
- Flanged connections to BS EN 1092-2 NPS16 and impulse tapping connection to Rc½ unless otherwise requested.
- External impulse
- Spring loaded
- Full Bore Design
- Very low pressure drop
- Visual Indicator
- Integrated Equalising Valve

Options

- Micro switch for remote indication



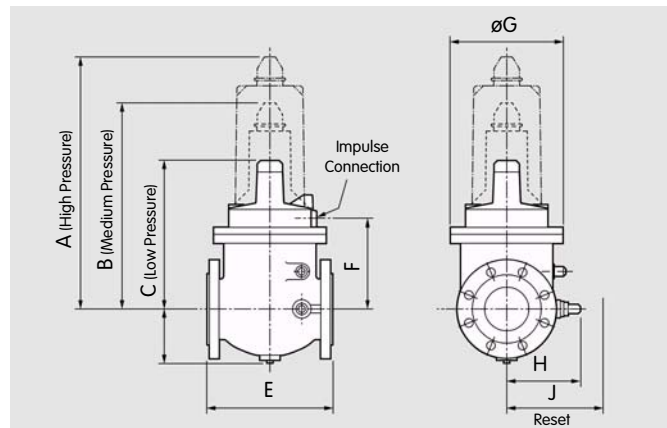
J98: Over Pressure Slam Shut Valve

Dimensions

Size	A	B	C	D	E	F	G	H	J
150	694	485	358	148	348	233	310	188	215
200	735	525	400	183	420	275	390	216	235

Weights (Kg)

Size	L.P.	M.P.	H.P.
150	59	63	73
200	93	98	108



Trip Off Pressures

Low Pressure			Medium Pressure			High Pressure		
Part Number	mbar	"wg	Part Number	bar	Psig	Part Number	bar	Psig
J4809-007 Dark Blue / Yellow	10 - 20	4 - 8	J9812-033 Grey / Brown	0.07 - 0.21	1 - 3	J9812-061 Gold / Dark Green	0.69 - 1.38	10 - 20
J4809-004 Dark Blue / Black	20 - 37	8 - 15	J9812-040 White / Dark Green	0.21 - 0.35	3 - 5	J9812-062 Gold / Light Blue	1.38 - 2.07	20 - 30
J4809-005 Dark Blue / Orange	35 - 50	14 - 20	J9812-044 White / Light Blue	0.35 - 0.48	5 - 7	J9812-063 Gold / Brown	2.07 - 2.76	30 - 40
J4809-006 Dark Blue / Brown	47 - 60	19 - 27	J9812-045 White / Light Green	0.48 - 0.76	7 - 11	J9812-064 Gold / Black	2.76 - 3.50	40 - 50
J4809-024 Dark Blue / Gold	62 - 90	25 - 36						
J4809-025 Dark Blue / Grey	87 - 125	35 - 50						
J9812-028 Green / Light Blue	112 - 150	45 - 60						

Material Specifications

A summary of the material specification for the J98 is given for reference. All material has been selected to provide maximum durability and reliability in service.

Components	Specification
Body, Guide Plate, H.P. Spring Cover & H.P. Spring Holder	Nodular Iron
Valve Seat	Mild Steel
Valve Disc Holder	Aluminium Alloy
Lever	Cast Aluminium
Lever Arm Spindle & Diaphragm Stem	Stainless Steel
Bushes	Brass
Sensing Diaphragm, Valve Disc and 'O' rings	Nitrile (Buna)
Loading Springs	Carbon Steel, Zinc Plated and Passivated
Mechanism Springs	Stainless Steel Wire

Quality:

Elster Jeavons is committed to a programme of continuous quality enhancement. All equipment designed and manufactured by the Elster-Instromet group benefits from the group's quality assurance standards which are approved to EN ISO9001:2008

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A22.12.2009