



Applications:

- Pumps of re-circulation for cold or hot water.
- Heating with low or high pressure steam.
- Laundry equipments.
- Spraying. Irrigation. Dishwashers.
- Air dryers. water treatment. Vacuum systems

Main characteristics

Normally closed.
Pilot operated.
Bronze, stainless steel body.
BSP or NPT threaded connection.
Brass, stainless steel piston, among others.
Coil: Encapsulated up to 150 °C (302 °F) and coated with glass fibre and insulating impregnation up to 180 °C

(356 °F), (for steam).
Interconnection cables. Internal general use housing.
3/4 " NF electric connection.

Core: 430 F s.s.
• **The valve has a built in expansion relief.**

Options:

- Explosion and / or weather proof housing.
- Manual operator on the main orifice.
- Flanged connections.

Operating pressure differential

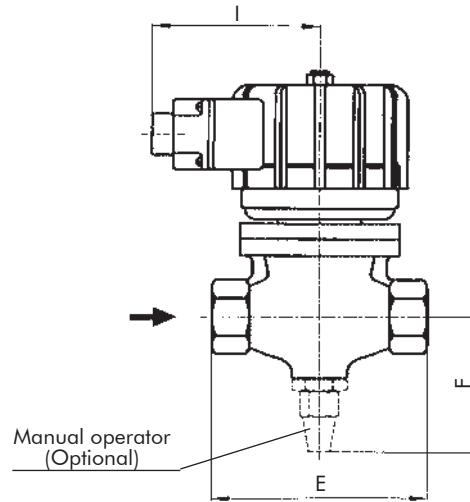
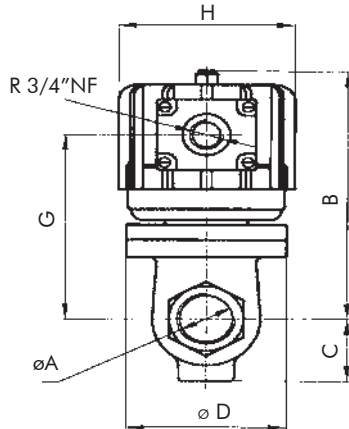
Type	Minimum		Maximum steam				Maximum other fluids			
			PTFE seat		EPDM seat		CA		CC	
	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi
Hung piston	0	0	7	105	3	45	7	105	7	105
Floating piston	0.1	1.5	10	150	3	45	15	225	10	150

Technical specifications - Bronze body

Ø Pipe ins	Ø Orifice		Flow factor		Weight		Maximum temp. and catalog N° according to seat material				
							Buna "N"	Neoprene	EPDM	FKM	PTFE
	mm	ins.	Kv	Cv	kg	Lb	80 °C / 176 °F	80 °C / 176 °F	145 °C / 293 °F	150 °C / 302 °F	180 °C / 356 °F
Hung piston											
3/4"	19	0.75	6	7	4	8,9	1314BA06A	1314BN06A	1314BE06A	1314BV06A	1314BST06A
1"	26	1.02	10	12	4,9	10,9	1314BA08A	1314BN08A	1314BE08A	1314BV08A	1314BST08A
1,1/2"	32	1.26	15	18	6,5	14,4	1314BA12A	1314BN12A	1314BE12A	1314BV12A	1314BST12A
2"	38	1.50	23	27	7,3	16,2	1314BA16A	1314BN16A	1314BE16A	1314BV16A	1314BST16A
Floating piston											
3/4"	19	0.75	6	7	4	8,9	1314BA06	1314BN06	1314BE06	1314BV06	1314BST06
1"	26	1.02	10	12	4,9	10,9	1314BA08	1314BN08	1314BE08	1314BV08	1314BST08
1,1/2"	32	1.26	15	18	6,5	14,4	1314BA12	1314BN12	1314BE12	1314BV12	1314BST12
2"	38	1.50	23	27	7,3	16,2	1314BA16	1314BN16	1314BE16	1314BV16	1314BST16

Note: In PTFE seat constructions, the piston is made of stainless steel AISI316.

General dimensions 1314



øA	B	C	øD	E	F	G	øH	I
R 3/4"	150	32	76	100	80	113	99	95
R 1"	157	41	90	120	89	120		
R 1.1/2"	180	49	100	149	97	143		
R 2"	180	51	100	149	100	147		

Measurements: mm

øA	B	C	øD	E	F	G	øH	I
R 3/4"	5.91	1.26	2.99	3.94	3.15	4.45	3.90	3.74
R 1"	6.18	1.61	3.54	4.72	3.50	4.72		
R 1.1/2"	7.09	1.93	3.94	5.87	3.82	5.63		
R 2"	7.09	2.01	3.94	5.87	3.94	5.79		

Measurements: ins.

Special constructions

Stainless steel body:

- AISI304: change letter **B** or **BS** for **S** in the catalog N^o.
Example: 1314SA08, 1314ST08.
- AISI316: change letter **B** or **BS** for **I** in the catalog N^o.
Example: 1314IA08, 1314IT08.

Options	Prefix	Suffix	Examples
Weather proof housing	Y		Y1314BST08A
Explosion and weather proof housing	Z		Z1314BST08A
Manual operator: on the main orifice		-M	1314BST08A-M
NPT connections		T	1314BST08AT
Flanged connections		B	1314BST08AB

Coil characteristics

Electric power supply	Coil type	Power W	VA (volt-ampere)		Maximum temperature		Available tensions
			Inrush	Holding	°C	°F	
CA 50 Hz	SH28C	28	241	69	155	311	1
	S28H (*)	28	252	73	180	356	1
CA 60 Hz	SH30C	30	267	80	155	311	2
	S30H (*)	30	237	78	180	356	2
CC	SH48	48	48	48	155	311	3
	S48H (*)	48	48	48	180	356	3

(*) For steam
1-(12,24,110,220,240)V 2-(12,24,110,120,220,240)V 3-(12,24,110,220)V

Recommendations for installation

Place a strainer with a porosity ≤ 100µ upstream the valve.

Mount the valve **only** over horizontal pipeline with the coil upright.

The valve input pressure must always be equal or greater than the output pressure.

Application according to seat material

Seat material	Buna "N"	Neoprene	EPDM	FKM	PTFE
Maximum temperature	+80 °C / 176 °F	+80 °C / 176 °F	+145 °C / 293 °F	+150 °C / 302 °F	+180 °C / 356 °F
Uses	Water, air, light oils. Neutral gases. Kerosene, low and medium vacuum	Oxygen, alcohol, argon, other non-corrosive light gases and liquids, Freon 12.	Water steam, hot water, acetone.	Benzene, naphta, aromatics, etc. hot gases, high vacuum, diesel oil.	Steam, hot oils, corrosive fluids.