

Taper seat valves

Model 50870 Pneumatic taper seat valve, **BSP female** threading - **NC** version, above seat arrival



Specifications

Dimensions: DN10 to DN65 (3/8" to 2" 1/2)

Connection: BSP female thread in accordance with ISO 228-1

Max. allowed pressure: 16 bar

Actuator pressure: 4 to 10 bar

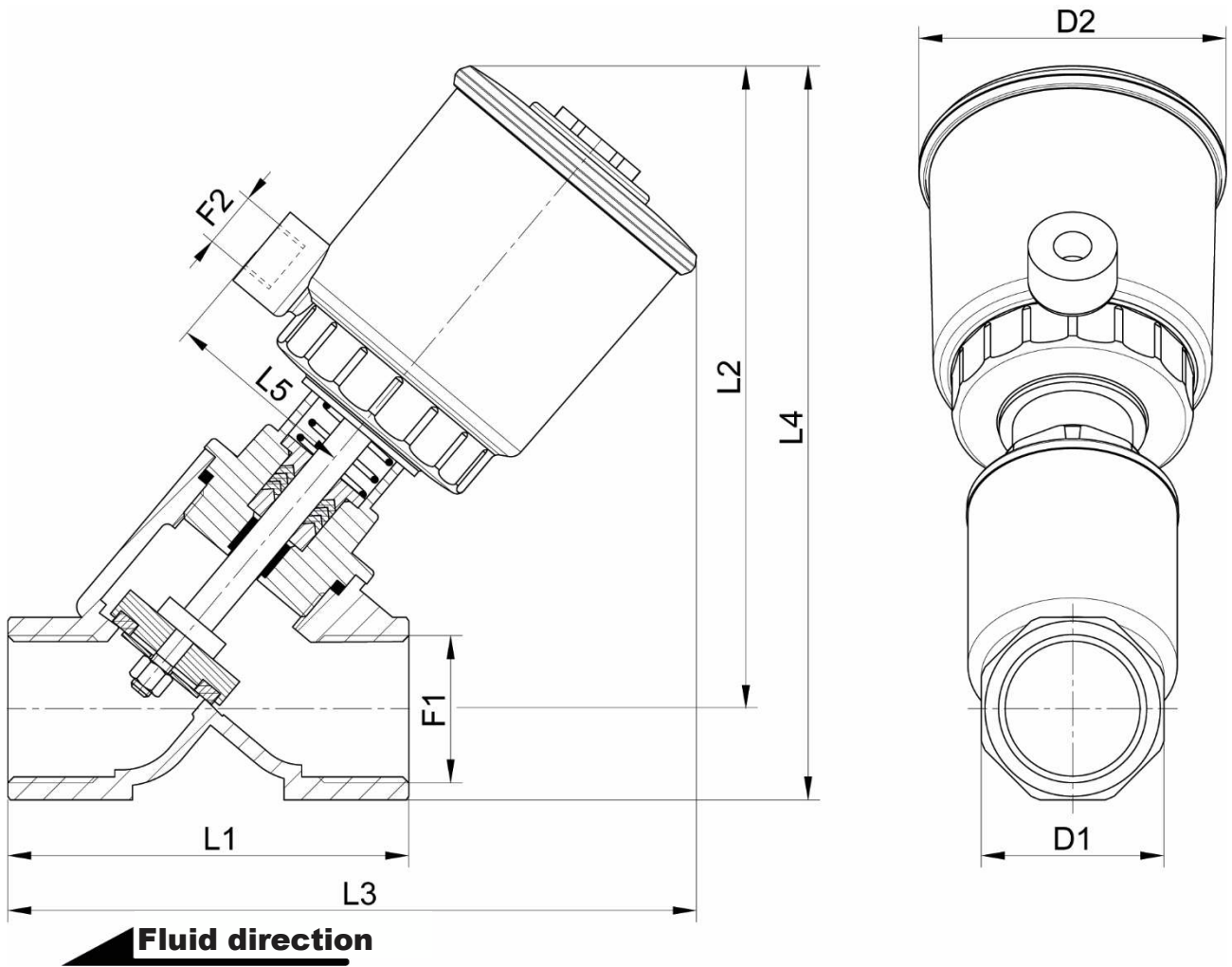
Temperature: from -10°C to +180°C

Ambient temperature: from -10°C to +60°C

Material: 1.4409 or CF3M stainless steel (for the stainless steel parts that can come into contact with the transported fluid)

PTFE/FPM sealing parts

On request: control box, clamp connections (ISO 2852), DIN threaded connections (DIN 11850) etc.



DN (mm)	NB (inches)	Control head (mm)	D1 (mm)	D2 (mm)	F1 (mm)	F2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	ΔP max. (bar)	Weight without control head (kg)	Part number
10	3/8"	32	24	44	3/8"	1/8"	55	82	93	93	27	10	0.35	450870-1032
15	1/2"	50	27	69	1/2"	1/8"	65	141	146	155	43	10	0.90	450870-1550
20	3/4"	50	32	69	3/4"	1/8"	75	144	151	159	43	10	1.00	450870-2050
25	1"	50	41	69	1"	1/8"	90	143	155	165	43	10	1.40	450870-2550
32	1"1/4	63	50	85	1"1/4	1/8"	110	204	217	229	51	10	2.10	450870-3263
40	1"1/2	63	60	85	1"1/2	1/8"	120	215	225	245	51	10	2.90	450870-4063
50	2"	90	70	118	2"	1/4"	150	241	267	276	67	10	4.30	450870-5090
65	2"1/2	90	86	118	2"1/2	1/4"	190	255	298	300	67	10	6.30	450870-6590

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Use

NC - Normally Closed: the valve is closed when the NC solenoid valve is not connected to an electric power supply.

The valve is open when the NC solenoid valve is connected to an electric power supply.

Valve pressure inlet through port I (do not use with liquid fluids).



You cannot use water to drive the valve if the temperature of the fluid in the valve's body is over 100°C.

Assembly and maintenance instructions

Installation

You can install the valve in any position. However, check that there is enough space to move the valve's actuator where you are planning to install the valve.

Check that the installation is clean and free from foreign bodies that could damage the valve.

Check that all piping is perfectly aligned and that the piping support structure is dimensioned so that the valve is not subject to any external stresses. The piping support structure must only support the pipes, not the valve.

How to install a valve with female threaded ends:

You must not use the valve's body or its actuator when you are tightening the assembly (this could damage the valve). You must use a flat gasket (ISO 228-1 standard) to make sure the threaded connections are correctly sealed.

Connection

Remove the plastic protective cover from the actuator's connection port and follow the connection procedure.

- for the 1/8 port (heads Ø32, Ø50, Ø63 mm); make sure that the tightening torque is between 4 and 5 Nm.
- for the 1/4 port (head Ø90); make sure that the tightening torque is between 6 and 7 Nm.

Check the valve is operating correctly.

Pressure test the installation according to the relevant standards (e.g. EN 12266-1), but do not exceed the valve's specifications.

Maintenance

Cleaning:

Valve maintenance will depend on the conditions the valve is used in.

You should clean the valve periodically. The frequency of when you will need to clean the valve will depend on the type of fluid that is transported through it, the valve's operating conditions and the ambient environment. You must examine all of the valve's components to check for any excess wear and tear.

You must clean the valve if its movements have slowed down, even under the correct driving pressure, or if you hear any strange noises or you find a leak.

Otherwise this could lead to an operating problem and the valve could stop opening and closing correctly.

Operating noise:

You can only measure the emitted noise level accurately when you have assembled the component on the installation.

The operating noise level will depend on the valve's use, the fluid and the type of equipment used.

Preventative maintenance:

Open and close the valve at least once a month to check it is opening and closing correctly.

You may need to change the valve due to unusual wear and tear, or if a fluid has damaged the valve and caused a leak or malfunction.

Specifications

Piping (ISO 6708)		Flow coefficient Kv		Allowed differential pressure (bar)			Head Ø (mm)	Part number
DN (mm)	NB (inches)	(m³/h)	(l/min)	Max.				
				air, inert gaz, aggressive fluids	Water, oil, liquids, aggressive liquides	Water vapour (<184°C)		
10	3/8"	2.8	47	10	-	10	32	458651-1032
15	1/2"	4.9	82	10	-	10	50	458651-1550
20	3/4"	9.4	157	10	-	10	50	458651-2050
25	1"	12.8	213	10	-	10	50	458651-2550
32	1"1/4	27	450	10	-	10	63	458651-3263
40	1"1/2	45	750	10	-	10	63	458651-4063
50	2"	59	983	10	-	10	90	458651-5090
65	2"1/2	94	1567	10	-	10	90	458651-6590

