s.7341 NPT

3-way 4 seats T-port

1/2" - 1"
ISO 5211



The s.7341 series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports.

By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications.

Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.

Quality
- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

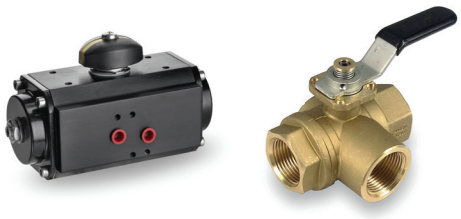
Body
- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T- port design for flow mixing

Stem
- Blowout-proof nickel plated brass stem
- Maintenance- free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

Sealing
- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

Threads
- NPT taper ANSI B.1.20.1 female threads

Flow
- 100% full port for maximum flow



Handle
- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See ***RuB*** line of electric and pneumatic actuators.

Working pressure & temperature
- 300 PSI non-shock cold working pressure
- -4°F to +302°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

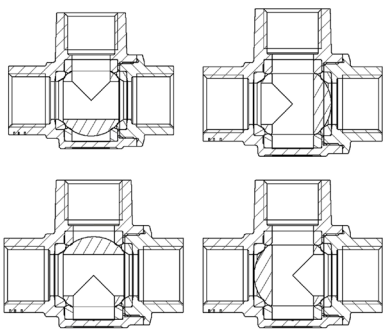
Options
- Rack and pinion pneumatic actuator (spring return or double acting)
- EN10226-1/ISO228 parallel female threads
- Lockable handle as accessory or already mouned (s.7341L)
- Various actuator linkage kit

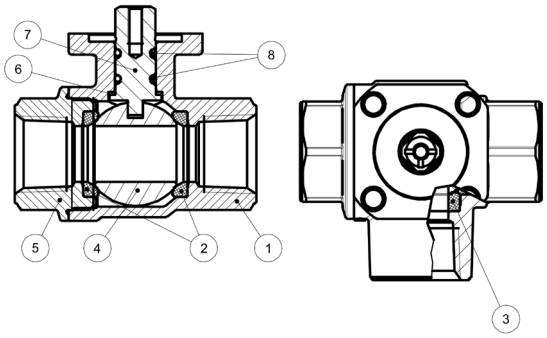
Upon request
- Custom design
- Stainless steel stem
- Configurations with 4 seats & L-port (s.7241) or 2 seats & L-port (s.7641)

Approved by or in compliance with
- RoHS Compliant (EU)

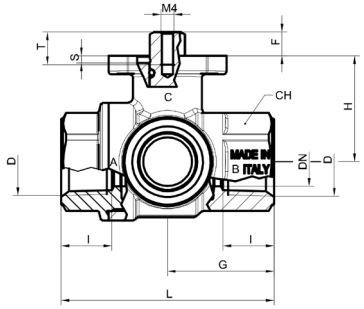
NOTE: approvals apply to specific configurations/sizes only.

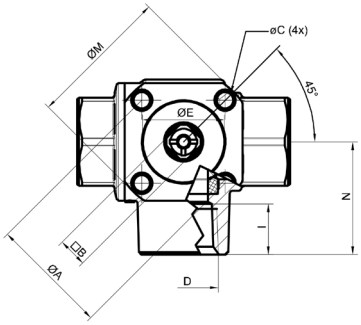
s73 3-way "T" port operating positions





	Part description	Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Sand blasted unplated end-cap	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM





Code	S73D41	S73E41	S73F41
Size (inch)	1/2	3/4	1
DN (inch)	0.591	0.787	0.984
I (inch)	0.610	0.709	0.827
L (inch)	2.559	3.110	3.642
G (inch)	1.280	1.555	1.831
H (inch)	1.280	1.555	1.673
N (inch)	1.358	1.654	1.949
øA (inch)	1.417	1.417	1.417
øC (inch)	ø0.205 (M6)	ø0.205 (M6)	ø0.205 (M6)
øE (inch)	0.984	0.984	0.984
Square B (inch)	0.354	0.354	0.354
øM (inch)	1.709	1.709	1.709
S (inch)	0.087	0.087	0.087
T (inch)	0.394	0.394	0.394
F (inch)	0.287	0.327	0.327
CH (inch)	1.063	1.260	1.614
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03

Torque for actuator sizing in-lb

Delta P -->	0 ÷230 PSI	
Valve size	to open	to close
1/2"	93	93
3/4"	115	115
1"	261	261

Torque correction factors

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions. An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2). The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.

