



s.7641 3-way 2 seats L-port (diverting)

Female/Female/Female
1/2" - 2"
ISO 5211

The **RuB** s.7641 is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.



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 ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L- port design for flow diversion

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

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

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

- Shell rating: 450 PSI (30 bar) up to 1", 300 PSI (20 bar) over 1", non-shock cold working pressure
- Seat rating: Delta P max permissible 100 PSI (8 bar)
- -4°F to +302°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

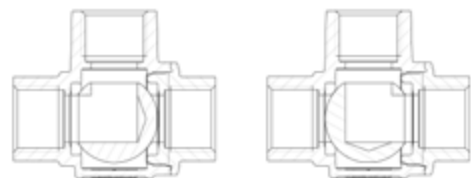
- Custom design
- Stainless steel stem
- Configuration with 4 seats, T-port (s.7341)

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

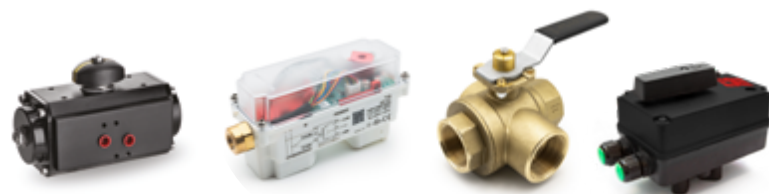
NOTE: approvals apply to specific configurations/sizes only.

S.76 3-way "L" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- Lockable handle as accessory or already mounted (s.7641L)
- Various actuator linkage kit



s.7641 NPT XCES7641 - 5942

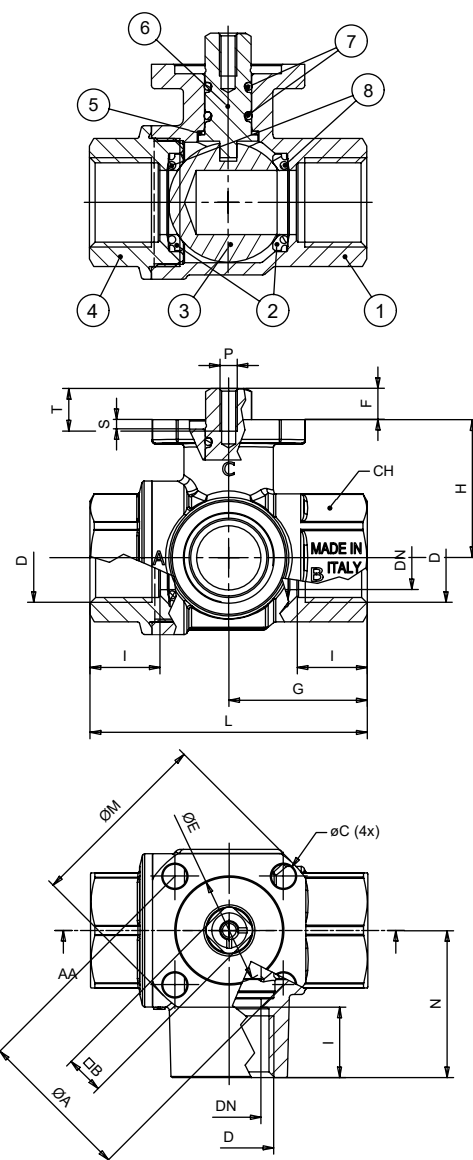
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES SRL makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES SRL products with your specific field of use.



ACTUATION

Part description		Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE graphite filled 15%, PTFE over 1"
3	Chrome plated ball	1	CW617N
4	Sand blasted unplated end cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM

Code	S76D41	S76E41	S76F41	S76G41	S76H41	S76I41
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (inch)	0.591	0.787	0.984	1.197	1.496	1.890
I (inch)	0.610	0.709	0.827	0.906	0.965	1.043
L (inch)	2.559	3.110	3.642	4.311	4.961	5.906
G (inch)	1.280	1.555	1.831	2.165	2.480	2.953
H (inch)	1.820	1.555	1.673	2.205	2.500	2.854
N (inch)	1.358	1.654	1.949	2.362	2.717	3.228
ØA (inch)	1.417	1.417	1.417	1.969	1.969	1.969
ØC (inch)	Ø 0.22	Ø 0.22	Ø 0.22	Ø 0.26	Ø 0.26	Ø 0.26
ØE (inch)	0.984	0.984	0.984	1.378	1.378	1.378
Square B (inch)	0.354	0.354	0.354	0.551	0.551	0.551
ØM (inch)	1.709	1.709	1.709	2.394	2.394	2.394
S (inch)	0.087	0.087	0.087	0.126	0.126	0.126
T (inch)	0.394	0.394	0.394	0.551	0.551	0.551
F (inch)	0.287	0.327	0.327	0.571	0.571	0.571
CH (inch)	1.063	1.260	1.614	1.969	2.165	2.756
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
CV (GPM)	6.6	12.9	19.3	32.5	51.4	82.2



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷230 PSI	
	to open	to close
Valve size		
1/2"	31	31
3/4"	36	36
1"	40	40
1 1/4"	104	104
1 1/2"	190	190
2"	248	248

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

PRESSURE DROP CHART

