



# s.7650L BSPT

## 3-way, lever, 2 seats, L-port (diverting)

### 1/2" - 2"

The **RuB** s.7650L 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 mount



#### Quality

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

#### Body

- Hot forged sand blasted, external nickel plated 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 O-rings at the stem for maximum safety

#### Sealing

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

#### Threads

- ISO 7/1, BS 21 BSPT taper female threads

#### Flow

- 100% full port for maximum flow

#### Handle

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load



#### Working pressure & temperature

- 30 Bar up to 1", 20 bar over 1", non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°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)
- Compact Power electric actuator
- Female by female NPT threads
- EN10226-1, ISO228 parallel female by female threads
- S.7650 without handle actuator ready
- Various actuator linkage kit

#### Upon request

- Custom design
- Stainless steel stem (1.4401 / AISI 316)
- Configurations with 4 seats, L-port (s.7250L) or T-port (s.7350L)

#### PED directive

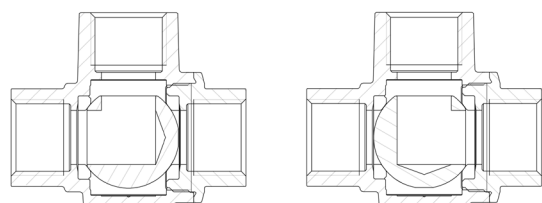
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

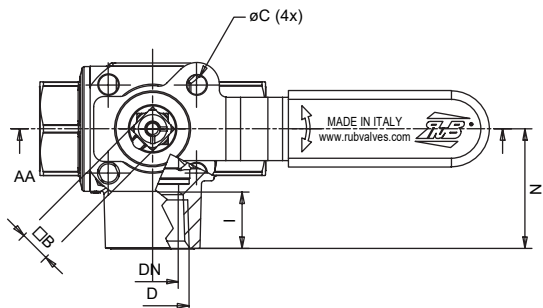
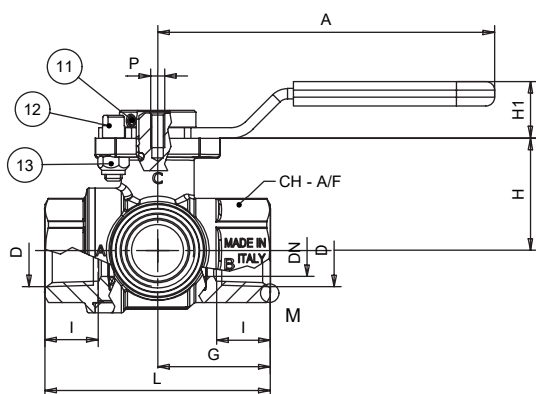
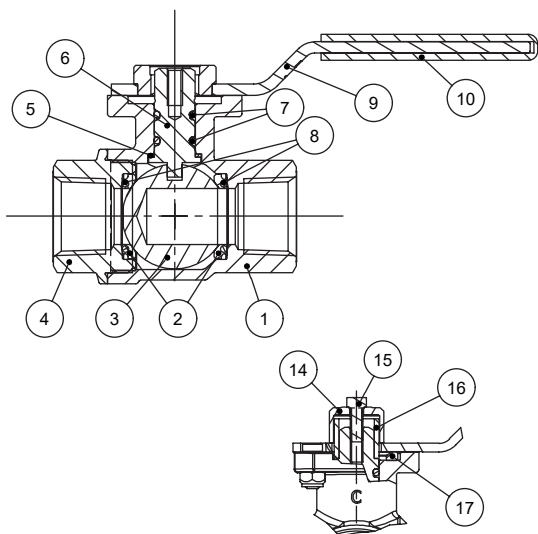
#### Approved by or in compliance with

- RoHS Compliant (EU)

**NOTE:** approvals apply to specific configurations/sizes only.

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





Part description		Q.ty	Material
1	Sand blasted nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (External nickel plated, unplated inside)	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
9	Geomet® plated steel handle	1	DD11 (EN10111)
10	Black dipped coating	1	PVC
11	Stainless steel screw	1	1.4301 / AISI304
12	Unplated stop	1	CW617N
13	Zinc plated steel nut	1	Class 8 6S (UNI7474)
14	Unplated cap	1	CW617N
15	Stainless steel Exagonal screw	1	1.4301 / AISI304
16	Square adaptor 11-14 (only for 1 ¼ size)	1	Steel
17	Washer	1	PTFE

Code	S76D50L	S76E50L	S76F50L	S76G50L	S76H50L	S76I50L
D (inch)	1/2"	3/4"	1"	1 ¼"	1 ½"	2"
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	63.2	72
N (mm)	34.5	42	49.5	60	69	82
A (mm)	97	97	97	145	145	145
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
H1 (mm)	16.5	16.5	16.5	23	23	23
Square B (mm)	9	9	9	11	11	14
CH A/F (mm)	27	32	41	50	55	70
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05

### Torque for actuator sizing N.m

Delta P -->	0÷16 bar	
	to open	to close
Valve size		
1/2"	3,5	3,5
3/4"	4,0	4,0
1"	4,5	4,5
1 ¼"	11,7	11,7
1 ½"	21,5	21,5
2"	28,0	28,0

### 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