

## Features

- 3-way L-port design for fluid diversion. It is designed with robust maintenance-free components ensuring ease of operation and safety
- Integrated ISO 5211 /DIN 3337 mounting flange for universal connection to actuator
- EN 10226-1, ISO 228 parallel female threads
- Geomet® carbon steel handle with thick PVC dip coating for both thermal and electrical protection
- 100% full port for maximum flow
- 20 bar (300 PSI) non-shock cold working pressure
- Temperature: -20°C to +150°C
- Electronic 100% seal test guaranteed.

## RS PRO Brass Full port 3-way ball valve with black lever, L-port, threaded EN 10226-1, female by female threads, 20 bar

RS Stock No.: **0854413**



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

RS PRO range of 3-WAY brass manual ball valves, 4 SEATS – L-PORT.

The s.7600L 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.

Thanks to Silicone-free lubricant on all seals, s76L may be used in automotive plants and installations.

Available configurations:

|         |                                           |
|---------|-------------------------------------------|
| 0854407 | 3-WAY VALVE S.76 1/4" BSPP L-PORT LEVER   |
| 0854408 | 3-WAY VALVE S.76 3/8" BSPP L-PORT LEVER   |
| 0854409 | 3-WAY VALVE S.76 1/2" BSPP L-PORT LEVER   |
| 0854410 | 3-WAY VALVE S.76 3/4" BSPP L-PORT LEVER   |
| 0854411 | 3-WAY VALVE S.76 1" BSPP L-PORT LEVER     |
| 0854412 | 3-WAY VALVE S.76 1 1/4" BSPP L-PORT LEVER |
| 0854413 | 3-WAY VALVE S.76 1 1/2" BSPP L-PORT LEVER |
| 0854414 | 3-WAY VALVE S.76 2" BSPP L-PORT LEVER     |

## General Specifications

|                     |                                                                      |
|---------------------|----------------------------------------------------------------------|
| Threaded Connection | EN 10226-1, ISO 228 parallel female threads                          |
| Attachment Type     | Threaded                                                             |
| Body Material       | Nickel plated brass body<br>Chrome plated brass ball for longer life |
| Thread Size         | 1 1/2" – DN 38                                                       |

|             |                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------|
| Flow        | 100% full port for maximum flow                                                                               |
| Stem        | Blowout-proof nickel-plated brass stem<br>Maintenance-free, double FPM O-rings at the stem for maximum safety |
| Application | L-port design for fluid diversion                                                                             |

## Operation Specifications

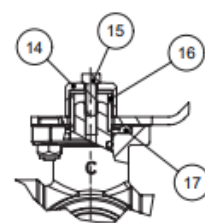
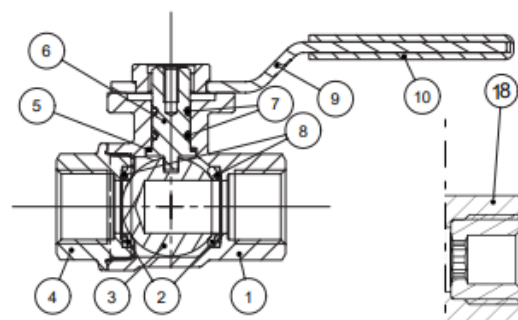
|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Maximum working pressure | 20 bar (300 PSI) non-shock cold working pressure                                                                      |
| Working temperature      | - 20°C to +150°C (-4°F to +302°F)<br>WARNING: freezing of the fluid in the installation may severely damage the valve |

## Approvals

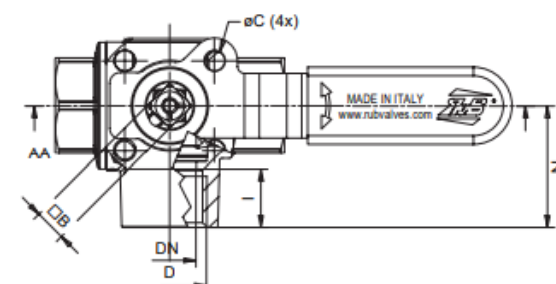
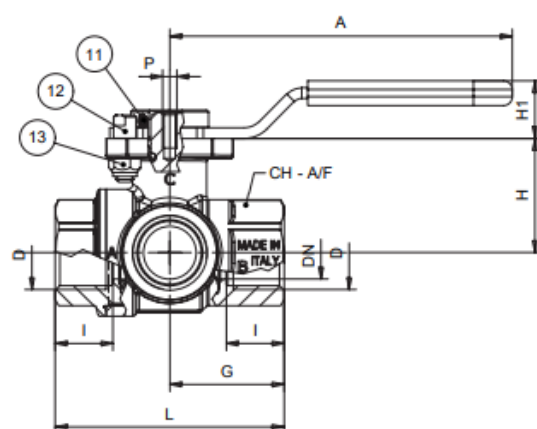
|                           |                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Compliance/Certifications | RoHS Compliant (EU)<br>EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)                                        |
| 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 |

## Mechanical Specifications

|    | Part description                                                                | Q.ty | Material                 |
|----|---------------------------------------------------------------------------------|------|--------------------------|
| 1  | Nickel plated body<br>(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<br>(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 (UNI7474)        |
| 14 | Unplated cap                                                                    | 1    | CW614N                   |
| 15 | Stainless steel Exagonal screw                                                  | 1    | 1.4301 / AISI304         |
| 16 | Square adaptor 11-14 (only for 1 1/4 size)                                      | 1    | Steel                    |
| 17 | Washer                                                                          | 1    | PTFE                     |
| 18 | Unplated reduction (only 1/4" and 3/8" sizes)                                   | 3    | CW617N                   |



1.1/4"-1.1/2"-2" handle configuration



| Code                                         | S76B00L | S76C00L | S76D00L | S76E00L | S76F00L | S76G00L | S76H00L | S76I00L |
|----------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Size (inch)                                  | 1/4"    | 3/8"    | 1/2"    | 3/4"    | 1"      | 1 1/4"  | 1 1/2"  | 2"      |
| DN (mm)                                      | 8       | 10      | 15      | 20      | 25      | 30.4    | 38      | 48      |
| I (mm)                                       | 12      | 12      | 16.5    | 19      | 22.5    | 25      | 26      | 29      |
| L (mm)                                       | 65      | 65      | 65      | 79      | 92.5    | 109.5   | 126     | 150     |
| G (mm)                                       | 32.5    | 32.5    | 32.5    | 39.5    | 46.5    | 55      | 63      | 75      |
| H (mm)                                       | 32.5    | 32.5    | 32.5    | 39.5    | 42.5    | 56      | 63.2    | 72      |
| N (mm)                                       | 34.5    | 34.5    | 34.5    | 42      | 49.5    | 60      | 69      | 82      |
| A (mm)                                       | 97      | 97      | 97      | 97      | 97      | 145     | 145     | 145     |
| ØC (mm)                                      | Ø5.6    | Ø5.6    | Ø5.6    | Ø5.6    | Ø5.6    | Ø6.6    | Ø6.6    | Ø6.6    |
| H1 (mm)                                      | 16.5    | 16.5    | 16.5    | 16.5    | 16.5    | 23      | 23      | 23      |
| Square B (mm)                                | 9       | 9       | 9       | 9       | 9       | 11      | 11      | 14      |
| CH A/F (mm)                                  | 27      | 27      | 27      | 32      | 41      | 50      | 55      | 70      |
| Flange connection<br>DIN ISO 522<br>DIN 3337 | F03     | F03     | F03     | F03     | F03     | F05     | F05     | F05     |
| P (ISO 262 Thread)                           | M4      | M4      | M4      | M4      | M4      | M5      | M5      | M5      |
| Kv (m³/h)                                    | TBD     | TBD     | 5.7     | 11.1    | 16.7    | 28.1    | 44.5    | 71.1    |

## TORQUE FOR ACTUATOR SIZING N.M

| Delta P -->       | 0÷16 bar |          |
|-------------------|----------|----------|
| Valve size        | to open  | to close |
| 14" - 3/8" - 1/2" | 3,5      | 3,5      |
| 3/4"              | 4,0      | 4,0      |
| 1"                | 4,5      | 4,5      |
| 1 1/4"            | 11,7     | 11,7     |
| 1 1/2"            | 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 |

## PRESSURE DROP CHART

