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Catalog No. H-270RF
Mar. 2011

RS Fittings

for Rolling Stock & General Service



HY-LOK CORPORATION

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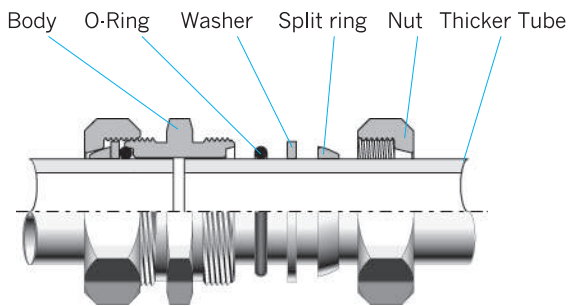


Features

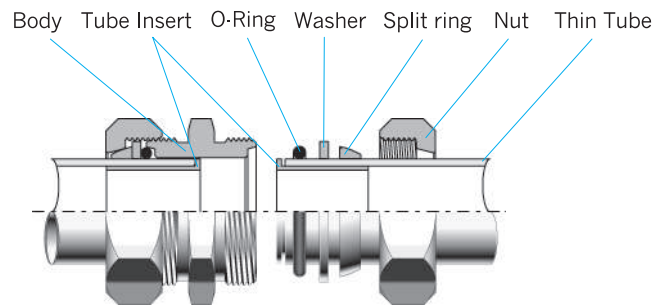
Design

RS fittings are designed :

- To assemble plain end metal or flexible tubes from 1/8"(10.2mm O.D.) to 2"(60.3mm O.D.) or 6mm O.D. to 57mm O.D. only with two open end wrenches.
- To avoid any operation on the tubes which are to be assembled : no thread, no solder, no open out tubes, no sealed ring.
- To stand, according to outside diameters, service pressures to 200 bars(for 6mm O.D. tube) or to 40 bars(for a 60.3mm O.D. tube)
- **RS Fittings are manufactured under ISO 9001 procedures and are totally complying with UIC 803-35 OR.**



Thicker wall thickness Tube.



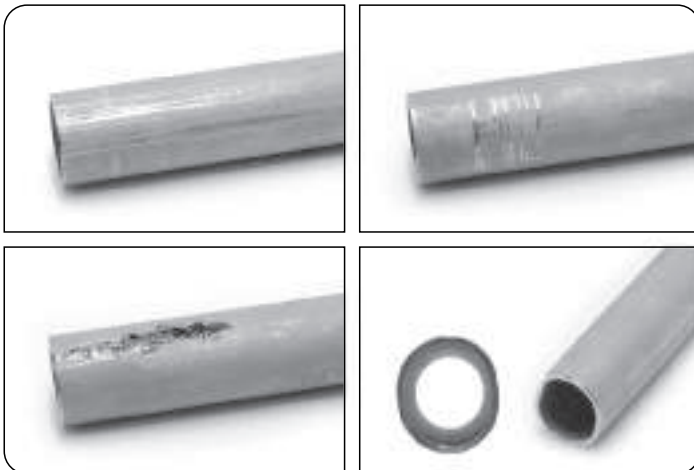
Thin wall thickness Tube.

Advantage

- Axial disalignment for each tube $\geq 3^\circ$
- Large tolerances on tube diameters and tube lengths
- Excellent resistance to vibrations, pressures and temperatures
- Easy to assemble so as to save on tools and work
- Fully dismountable and recoverable fittings.

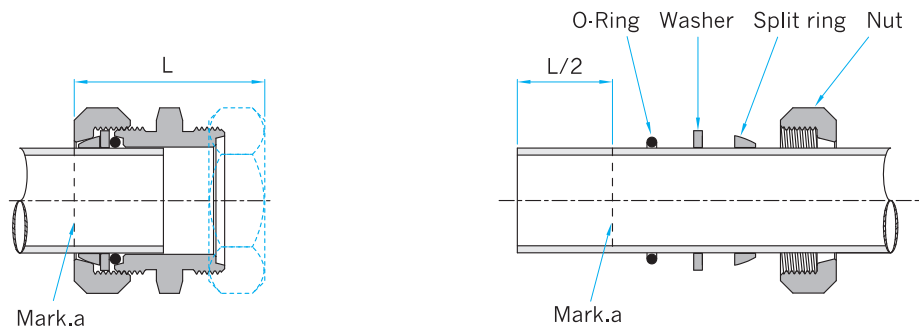
Check points of Tube handling

- Prevent defects and scratches when shipping tube
- Pollutants in side and out side of Tube
- Roundness and Concentricity



How To Assemble

- Step 1** ■ Check the tolerances on outside diameter of the tube and deburr end of this tube.
- Step 2** ■ Assemble in order the following elements on the tube :
- Step 3** ■ Mark (a) the tube of about distance L/2
- Step 4** ■ Bring the tube inside the sleeve, of half length of this last.
- Step 5** ■ Start screwing the nut on the sleeve (the "a" mark on the tube must be visible at the level of the back of nut).
The O-Ring is thus compressed in the housing formed by the groove of the sleeve and the washer : airtightproof is reached.
Go on screwing the nut, respecting the sealing torques indicated the split ring is contracted and holds mechanically the tube.
- Step 6** ■ Assembly is correctly achieved when the mark (a) is visible after the final screwing.



Pressure Rating

The fitting is warranted for any pneumatic application with working pressures up to 20 bars. There should be used a Grooves Split Tapered Ring, when the pressure condition is over 10 bar.

| Tube O.D. (mm) | Service Pressure With Gas (bar) | Service Pressure With Liquids (bar) | Test Pressure With Liquids (bar) |
|----------------|---------------------------------|-------------------------------------|----------------------------------|
| 6.0 | 20 | 200 | 400 |
| 8.0 | | | |
| 10.0 | | | |
| 10.2 | | | |
| 12.0 | | 100 | 200 |
| 13.5 | | | |
| 15.0 | | | |
| 16.0 | | | |
| 17.2 | | | |
| 18.0 | | | |
| 20.0 | | | |
| 21.3 | | | |
| 22.0 | | 80 | 160 |
| 25.0 | | | |
| 26.9 | | | |
| 28.0 | | | |
| 30.0 | | | |
| 33.7 | | | |
| 35.0 | | | |
| 38.0 | | | |
| 42.4 | 40 | 80 | |
| 44.5 | | | |
| 48.3 | | | |
| 57.0 | | | |
| 60.3 | | | |
| 60.3 | | | |

Sealing Torques

Torque values for standard tube thicknesses (≥ 2 mm) and for operating pressure of 20 bars.

| Tube O.D (mm) | Copper Tube (N.m) | Aluminium Tube (N.m) | Steel and Stainless Steel Tube (N.m) |
|---------------|-------------------|----------------------|--------------------------------------|
| 6.0 | 16 | 25 | 35 |
| 8.0 | 20 | 30 | 40 |
| 10.0 | 25 | 35 | 50 |
| 10.2 | 25 | 35 | 50 |
| 12.0 | 28 | 38 | 50 |
| 13.5 | 32 | 45 | 65 |
| 15.0 | 36 | 60 | 85 |
| 16.0 | 36 | 60 | 85 |
| 17.2 | 40 | 60 | 85 |
| 18.0 | 48 | 65 | 95 |
| 20.0 | 48 | 70 | 100 |
| 21.3 | 50 | 75 | 100 |
| 22.0 | 50 | 78 | 105 |
| 25.0 | 63 | 90 | 145 |
| 26.9 | 70 | 110 | 150 |
| 28.0 | 70 | 110 | 155 |
| 30.0 | 80 | 110 | 160 |
| 33.7 | 90 | 125 | 180 |
| 35.0 | 90 | 130 | 185 |
| 38.0 | 110 | 150 | 230 |
| 42.4 | 125 | 180 | 265 |
| 44.5 | 130 | 210 | 295 |
| 48.3 | 150 | 230 | 315 |
| 57.0 | 180 | 290 | 390 |
| 60.3 | 210 | 310 | 420 |

* This pressure information is given for standard temperature limits and working conditions without any pressure shocks, after respecting the assembly instructions.

Ordering Information

Example 1. Straight Union

$\frac{A}{\textcircled{1}} \frac{RSU}{\textcircled{2}} \cdot \frac{30M}{\textcircled{3}} \cdot \frac{N}{\textcircled{5}} \cdot \frac{E}{\textcircled{6}} \cdot \frac{S316}{\textcircled{7}}$

Example 2. Male Connector

$\frac{A}{\textcircled{1}} \frac{RSOM}{\textcircled{2}} \frac{08}{\textcircled{3}} \cdot \frac{8G}{\textcircled{4}} \cdot \frac{V}{\textcircled{5}} \cdot \frac{A}{\textcircled{6}} \cdot \frac{STEL}{\textcircled{7}}$

Example 3. Reducing Union Adaptor

$\frac{A}{\textcircled{1}} \frac{RKR}{\textcircled{2}} \frac{30M}{\textcircled{3}} \cdot \frac{08}{\textcircled{3}} \cdot \frac{HN}{\textcircled{5}} \cdot \frac{D}{\textcircled{6}} \cdot \frac{STEL}{\textcircled{7}}$

Example 4. Stub Female Adaptor

$\frac{A}{\textcircled{1}} \frac{RSAF}{\textcircled{2}} \frac{30M}{\textcircled{3}} \cdot \frac{08G}{\textcircled{4}} \cdot \frac{E}{\textcircled{5}} \cdot \frac{G}{\textcircled{6}} \cdot \frac{S316}{\textcircled{7}}$

Example 5. Banjo Fitting

$\frac{A}{\textcircled{1}} \frac{RKBJ}{\textcircled{2}} \frac{08}{\textcircled{3}} \cdot \frac{M39}{\textcircled{4}} \cdot \frac{N}{\textcircled{5}} \cdot \frac{C}{\textcircled{6}} \cdot \frac{STEL}{\textcircled{7}}$

Example 6. Stub Male Elbow

$\frac{A}{\textcircled{1}} \frac{RSLM}{\textcircled{2}} \frac{08}{\textcircled{3}} \cdot \frac{M39}{\textcircled{4}} \cdot \frac{HN}{\textcircled{5}} \cdot \frac{B}{\textcircled{6}} \cdot \frac{STEL}{\textcircled{7}}$

- ① Assembly with Nut, Split Ring and O-Ring.
- ② Name of Fitting : "Refer to Index"
- ③ Tube O.D. : See Tube O.D. Designator
- ④ Thread Connection : See Thread Designator
- ⑤ O-Ring Seal : O-Ring (Refer to seal materials)
- ⑥ Split Ring : See Split Ring Designator
- ⑦ Material : See Material Designator

■ Tube O.D. Designator

| | | | | | | |
|------------|-----|-----|------|-------|--------|------|
| Tube O.D. | 6mm | 8mm | 12mm | | 44,5mm | 57mm |
| Identifier | 6M | 8M | 12M | | 44,5M | 57M |

| | | | | | | | | | |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|----------------|--------------------|--------------------|----------------|
| Nominal Pipe Size ISO 4200 | 1/8" (10.2mm) | 1/4" (13.5mm) | 3/8" (17.2mm) | 1/2" (21.3mm) | 3/4" (26.9mm) | 1" (33.7mm) | 1 1/4" (42.4mm) | 1 1/2" (48.3mm) | 2" (60.3mm) |
| Identifier | 01 | 02 | 03 | 04 | 06 | 08 | 10 | 12 | 16 |

■ Thread Designator(BSP/Parallel)

| | | | | | | | | | |
|--------------|------|------|------|------|------|-----|--------|--------|-----|
| Nominal Size | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |
| Identifier | 01G | 02G | 03G | 04G | 06G | 08G | 10G | 12G | 16G |

■ Thread Designator(ISO Metric)

| | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|
| Size | M10x1.0P | M12x1.0P | M14x1.5P | M16x1.5P | M18x1.5P | M20x1.5P | M22x1.5P |
| Identifier | M10 | M12 | M14 | M16 | M18 | M20 | M22 |

| | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|
| Size | M24x1.5P | M27x1.5P | M30x1.5P | M33x2.0P | M39x2.0P | M42x2.0P | M48x2.0P |
| Identifier | M24 | M27 | M30 | M33 | M39 | M42 | M48 |

■ O-Ring Designator

| Materials | Temp Range | Identifier | Application |
|---------------------|----------------|------------|------------------------------------|
| SILICON | -50°C / +200°C | Standard | |
| NBR standard | -20°C / +120°C | N | Air compressed, butane, propane... |
| NBR low temperature | -45°C / +110°C | HN | Air compressed, butane, propane... |
| EPDM | -50°C / +150°C | E | Water and steam, ozon... |
| VITON | -20°C / +250°C | V | Liquid or gaseous Hydrocarbons... |

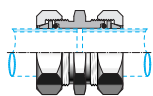
■ Split Ring Designator

| Materials of Tube | Identifier | Split Ring |
|------------------------------------|------------|-------------------------------------------|
| Carbon steel tube, standard range | A | Steel spring ring |
| Thin carbon steel tube | B | Steel split tapered ring |
| Steel tubes with high pressure | C | Steel split tapered ring with grooves |
| Brass tube | D | Brass split tapered ring |
| Stainless steel | E | Stainless steel split tapered ring |
| Stainless tubes with high pressure | F | Stainless split tapered ring with grooves |
| Aluminium tube | G | Aluminium split tapered ring |

■ Material Designator

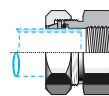
| | | |
|------------|--------------|-----------------|
| Material | Carbon Steel | Stainless Steel |
| Identifier | STEL | S316 |

Straight Union
RSU



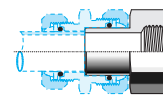
6

Female Connector (ISO Metric)
RSFC-M



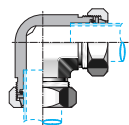
14

Stub Female Adaptor (BSP Paralleled)
RSAF-G



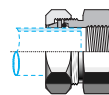
22

Union Elbow
RSL



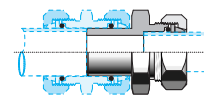
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Female Connector (BSP Paralleled)
RSFC-G



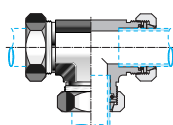
15

Reducing Union Adaptor
RSR



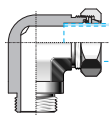
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Union Tee
RST



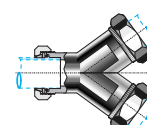
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Stud Male Elbow (ISO Metric)
RSLM-M



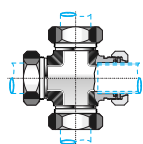
16

Y-Branch
RSYB



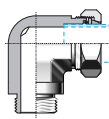
24

Union Cross
RSC



9

Stud Male Elbow (BSP Paralleled)
RSLM-G



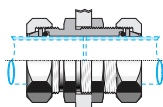
17

Tube Insert
RSI



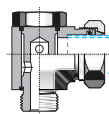
24

Bulkhead Union
RSBU



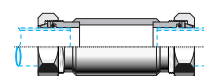
10

Banjo Elbow Fitting
RSBJ



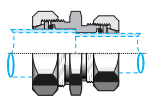
18

Bridge Coupling
RSBC



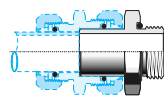
25

Reducing Union
RSUR



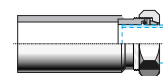
11

Stub Male Adaptor (ISO Metric)
RSA-M



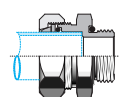
19

Bridge Half Coupling
RSBHC



26

Male Connector (ISO Metric)
RSOM-M



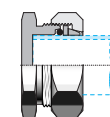
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Stub Male Adaptor (BSP Paralleled)
RSA-G



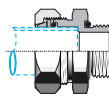
20

Plug
RSP



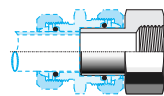
27

Male Connector (BSP Paralleled)
RSOM-G



13

Stub Female Adaptor (ISO Metric)
RSAF-M



21

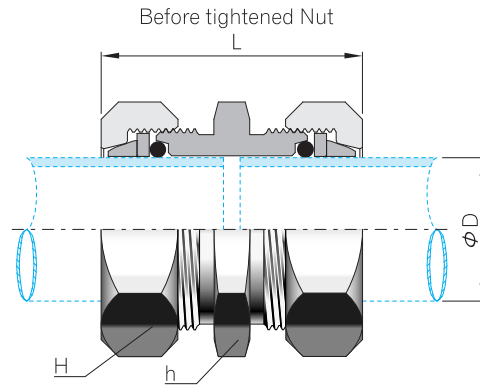
Cap
RSCA



27

RS Fittings

Straight Union RSU

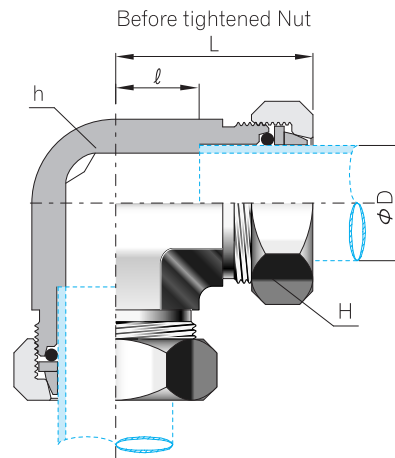


| Part No. | Tube O.D. D | h | H | L |
|-------------|----------------|----|----|------|
| RSU - 6M | 6.0 | 14 | 17 | 32.5 |
| RSU - 8M | 8.0 | 17 | 19 | 32.5 |
| RSU - 10M | 10.0 | 19 | 22 | 35.0 |
| RSU - 12M | 12.0 | 22 | 24 | 37.0 |
| RSU - 14M | 14.0 | 24 | 27 | 37.0 |
| RSU - 15M | 15.0 | 24 | 27 | 41.0 |
| RSU - 16M | 16.0 | 27 | 30 | 41.0 |
| RSU - 18M | 18.0 | 27 | 30 | 43.0 |
| RSU - 20M | 20.0 | 30 | 32 | 46.0 |
| RSU - 22M | 22.0 | 36 | 36 | 46.5 |
| RSU - 25M | 25.0 | 36 | 41 | 47.5 |
| RSU - 28M | 28.0 | 41 | 46 | 47.5 |
| RSU - 30M | 30.0 | 46 | 46 | 54.5 |
| RSU - 35M | 35.0 | 46 | 50 | 58.0 |
| RSU - 38M | 38.0 | 50 | 55 | 57.0 |
| RSU - 44.5M | 44.5 | 65 | 65 | 64.0 |
| RSU - 57M | 57.0 | 75 | 80 | 72.0 |

| Part No. | N.P.S. (O.D.) D | h | H | L |
|----------|--------------------|----|----|------|
| RSU - 01 | 1/8" (10.2) | 19 | 22 | 35.0 |
| RSU - 02 | 1/4" (13.5) | 24 | 27 | 37.0 |
| RSU - 03 | 3/8" (17.2) | 27 | 30 | 42.0 |
| RSU - 04 | 1/2" (21.3) | 32 | 36 | 45.5 |
| RSU - 06 | 3/4" (26.9) | 41 | 46 | 47.5 |
| RSU - 08 | 1" (33.7) | 46 | 50 | 54.5 |
| RSU - 10 | 1 1/4" (42.4) | 60 | 65 | 62.0 |
| RSU - 12 | 1 1/2" (48.3) | 65 | 70 | 66.0 |
| RSU - 16 | 2" (60.3) | 80 | 85 | 78.0 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Union Elbow
RSL



| Part No. | Tube O.D. D | h | H | L | ℓ |
|-------------|----------------|----|----|------|------|
| RSL - 6M | 6.0 | 14 | 17 | 23.5 | 7.0 |
| RSL - 8M | 8.0 | 17 | 19 | 27.5 | 8.0 |
| RSL - 10M | 10.0 | 17 | 22 | 28.0 | 9.5 |
| RSL - 12M | 12.0 | 22 | 24 | 33.0 | 10.5 |
| RSL - 14M | 14.0 | 24 | 27 | 33.0 | 11.0 |
| RSL - 15M | 15.0 | 24 | 27 | 36.5 | 13.0 |
| RSL - 16M | 16.0 | 24 | 30 | 36.5 | 13.0 |
| RSL - 18M | 18.0 | 27 | 30 | 37.5 | 13.5 |
| RSL - 20M | 20.0 | 30 | 32 | 43.0 | 15.5 |
| RSL - 22M | 22.0 | 32 | 36 | 44.0 | 18.0 |
| RSL - 25M | 25.0 | 36 | 41 | 46.5 | 19.5 |
| RSL - 28M | 28.0 | 41 | 46 | 46.5 | 21.0 |
| RSL - 30M | 30.0 | 41 | 46 | 51.5 | 22.0 |
| RSL - 35M | 35.0 | 46 | 50 | 57.0 | 26.0 |
| RSL - 38M | 38.0 | 50 | 55 | 60.0 | 25.0 |
| RSL - 44.5M | 44.5 | 60 | 65 | 68.5 | 33.0 |
| RSL - 57M | 57.0 | 70 | 80 | 79.0 | 33.0 |

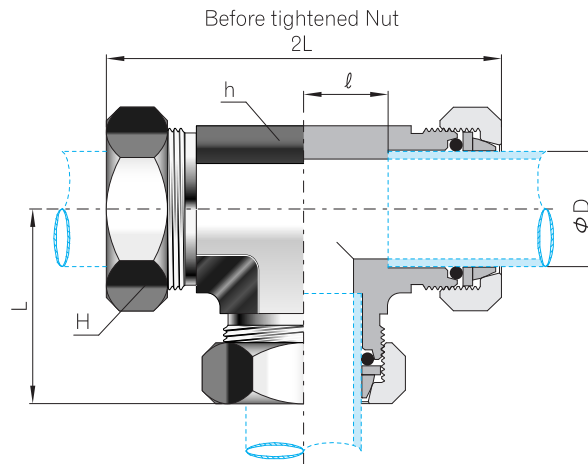
| Part No. | N.P.S. (O.D.) D | h | H | L | ℓ |
|----------|--------------------|----|----|------|------|
| RSL - 01 | 1/8" (10.2) | 17 | 22 | 28.0 | 9.5 |
| RSL - 02 | 1/4" (13.5) | 24 | 27 | 33.0 | 11.0 |
| RSL - 03 | 3/8" (17.2) | 27 | 30 | 37.0 | 14.0 |
| RSL - 04 | 1/2" (21.3) | 32 | 36 | 43.0 | 18.0 |
| RSL - 06 | 3/4" (26.9) | 41 | 46 | 46.5 | 21.0 |
| RSL - 08 | 1" (33.7) | 46 | 50 | 55.5 | 21.0 |
| RSL - 10 | 1 1/4" (42.4) | 60 | 65 | 61.0 | 31.0 |
| RSL - 12 | 1 1/2" (48.3) | 65 | 70 | 68.0 | 33.0 |
| RSL - 16 | 2" (60.3) | 70 | 85 | 80.0 | 33.0 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Union Tee

RST

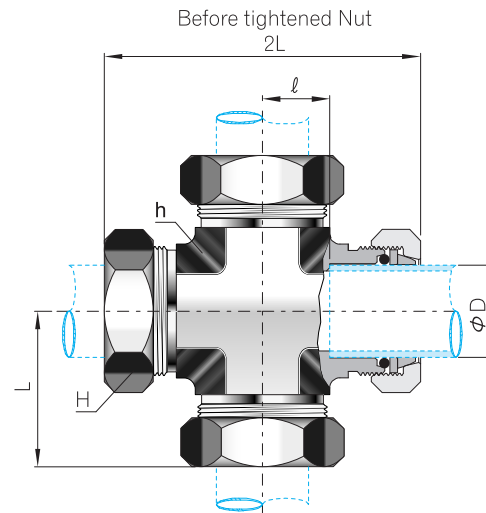


| Part No. | Tube O.D. D | h | H | L | l |
|-------------|----------------|----|----|------|------|
| RST - 6M | 6.0 | 14 | 17 | 23.5 | 7.0 |
| RST - 8M | 8.0 | 17 | 19 | 27.5 | 8.0 |
| RST - 10M | 10.0 | 17 | 22 | 28.0 | 9.5 |
| RST - 12M | 12.0 | 22 | 24 | 33.0 | 10.5 |
| RST - 14M | 14.0 | 24 | 27 | 33.0 | 11.0 |
| RST - 15M | 15.0 | 24 | 27 | 36.5 | 13.0 |
| RST - 16M | 16.0 | 24 | 30 | 36.5 | 13.0 |
| RST - 18M | 18.0 | 27 | 30 | 37.5 | 13.5 |
| RST - 20M | 20.0 | 30 | 32 | 43.0 | 15.5 |
| RST - 22M | 22.0 | 32 | 36 | 44.0 | 18.0 |
| RST - 25M | 25.0 | 36 | 41 | 46.5 | 19.5 |
| RST - 28M | 28.0 | 41 | 46 | 46.5 | 21.0 |
| RST - 30M | 30.0 | 41 | 46 | 51.5 | 22.0 |
| RST - 35M | 35.0 | 46 | 50 | 57.0 | 26.0 |
| RST - 38M | 38.0 | 50 | 55 | 60.0 | 25.0 |
| RST - 44.5M | 44.5 | 60 | 65 | 68.5 | 33.0 |
| RST - 57M | 57.0 | 70 | 80 | 79.0 | 33.0 |

| Part No. | N.P.S. (O.D.) D | h | H | L | l |
|----------|--------------------|----|----|------|------|
| RST - 01 | 1/8" (10.2) | 17 | 22 | 28.0 | 9.5 |
| RST - 02 | 1/4" (13.5) | 24 | 27 | 33.0 | 11.0 |
| RST - 03 | 3/8" (17.2) | 27 | 30 | 37.0 | 14.0 |
| RST - 04 | 1/2" (21.3) | 30 | 36 | 43.0 | 18.0 |
| RST - 06 | 3/4" (26.9) | 41 | 46 | 46.5 | 21.0 |
| RST - 08 | 1" (33.7) | 46 | 50 | 55.5 | 21.0 |
| RST - 10 | 1 1/4" (42.4) | 60 | 65 | 61.0 | 31.0 |
| RST - 12 | 1 1/2" (48.3) | 65 | 70 | 68.0 | 33.0 |
| RST - 16 | 2" (60.3) | 70 | 85 | 80.0 | 33.0 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Union Cross
RSC



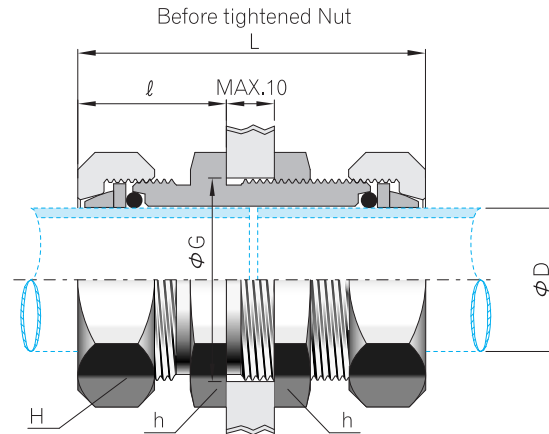
| Part No. | Tube O.D. D | h | H | L | l |
|-------------|----------------|----|----|------|------|
| RSC - 6M | 6.0 | 14 | 17 | 23.5 | 7.0 |
| RSC - 8M | 8.0 | 17 | 19 | 27.5 | 8.0 |
| RSC - 10M | 10.0 | 17 | 22 | 28.0 | 9.5 |
| RSC - 12M | 12.0 | 22 | 24 | 33.0 | 10.5 |
| RSC - 14M | 14.0 | 24 | 27 | 33.0 | 11.0 |
| RSC - 15M | 15.0 | 24 | 27 | 36.5 | 13.0 |
| RSC - 16M | 16.0 | 24 | 30 | 36.5 | 13.0 |
| RSC - 18M | 18.0 | 27 | 30 | 37.5 | 13.5 |
| RSC - 20M | 20.0 | 30 | 32 | 43.0 | 15.5 |
| RSC - 22M | 22.0 | 32 | 36 | 44.0 | 18.0 |
| RSC - 25M | 25.0 | 36 | 41 | 46.5 | 19.5 |
| RSC - 28M | 28.0 | 41 | 46 | 46.5 | 21.0 |
| RSC - 30M | 30.0 | 41 | 46 | 51.5 | 22.0 |
| RSC - 35M | 35.0 | 46 | 50 | 57.0 | 26.0 |
| RSC - 38M | 38.0 | 50 | 55 | 60.0 | 25.0 |
| RSC - 44.5M | 44.5 | 60 | 65 | 68.5 | 33.0 |
| RSC - 57M | 57.0 | 70 | 80 | 79.0 | 33.0 |

| Part No. | N.P.S. (O.D.) D | h | H | L | l |
|----------|--------------------|----|----|------|------|
| RSC - 01 | 1/8" (10.2) | 17 | 22 | 28.0 | 9.5 |
| RSC - 02 | 1/4" (13.5) | 24 | 27 | 33.0 | 11.0 |
| RSC - 03 | 3/8" (17.2) | 27 | 30 | 37.0 | 14.0 |
| RSC - 04 | 1/2" (21.3) | 30 | 36 | 43.0 | 18.0 |
| RSC - 06 | 3/4" (26.9) | 41 | 46 | 46.5 | 21.0 |
| RSC - 08 | 1" (33.7) | 46 | 50 | 55.5 | 21.0 |
| RSC - 10 | 1 1/4" (42.4) | 60 | 65 | 61.0 | 31.0 |
| RSC - 12 | 1 1/2" (48.3) | 65 | 70 | 68.0 | 33.0 |
| RSC - 16 | 2" (60.3) | 70 | 85 | 80.0 | 33.0 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Bulkhead Union RSBU

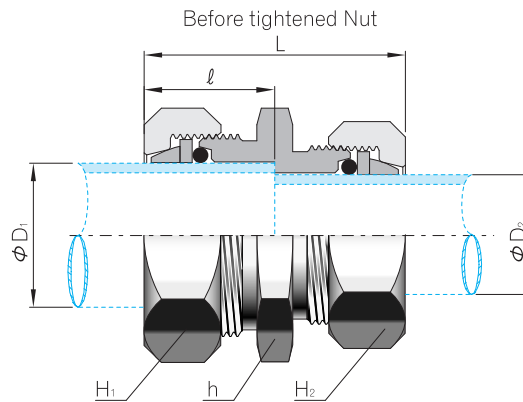


| Part No. | Tube O.D. D | h | H | L | l | G |
|--------------|----------------|----|----|------|------|------|
| RSBU - 6M | 6.0 | 19 | 17 | 46.5 | 19.0 | 14.2 |
| RSBU - 8M | 8.0 | 22 | 19 | 48.0 | 20.5 | 16.2 |
| RSBU - 10M | 10.0 | 24 | 22 | 52.0 | 22.0 | 18.2 |
| RSBU - 12M | 12.0 | 27 | 24 | 53.0 | 22.0 | 21.2 |
| RSBU - 14M | 14.0 | 30 | 27 | 55.0 | 24.0 | 23.3 |
| RSBU - 15M | 15.0 | 30 | 27 | 58.0 | 26.0 | 24.3 |
| RSBU - 16M | 16.0 | 32 | 30 | 59.0 | 26.0 | 25.3 |
| RSBU - 18M | 18.0 | 32 | 30 | 61.0 | 27.0 | 27.3 |
| RSBU - 20M | 20.0 | 36 | 32 | 62.0 | 27.5 | 29.3 |
| RSBU - 22M | 22.0 | 41 | 36 | 64.0 | 29.0 | 33.5 |
| RSBU - 25M | 25.0 | 41 | 41 | 65.0 | 29.0 | 36.5 |
| RSBU - 28M | 28.0 | 46 | 46 | 65.0 | 30.0 | 38.5 |
| RSBU - 30M | 30.0 | 50 | 46 | 72.5 | 34.0 | 42.5 |
| RSBU - 35M | 35.0 | 55 | 50 | 76.0 | 35.5 | 46.5 |
| RSBU - 38M | 38.0 | 60 | 55 | 78.0 | 38.5 | 49.5 |
| RSBU - 44.5M | 44.5 | 70 | 65 | 82.0 | 40.0 | 60.5 |
| RSBU - 57M | 57.0 | 80 | 80 | 97.0 | 48.0 | 72.5 |

| Part No. | N.P.S. (O.D.) D | h | H | L | l | G |
|-----------|--------------------|----|----|-------|------|------|
| RSBU - 01 | 1/8" (10.2) | 24 | 22 | 52.0 | 22.0 | 18.2 |
| RSBU - 02 | 1/4" (13.5) | 30 | 27 | 55.0 | 24.0 | 23.3 |
| RSBU - 03 | 3/8" (17.2) | 32 | 30 | 60.0 | 26.5 | 26.3 |
| RSBU - 04 | 1/2" (21.3) | 41 | 36 | 63.0 | 28.0 | 32.5 |
| RSBU - 06 | 3/4" (26.9) | 46 | 46 | 65.0 | 30.0 | 38.5 |
| RSBU - 08 | 1" (33.7) | 55 | 50 | 72.5 | 34.0 | 46.5 |
| RSBU - 10 | 1 1/4" (42.4) | 65 | 65 | 80.0 | 39.0 | 58.5 |
| RSBU - 12 | 1 1/2" (48.3) | 75 | 70 | 85.0 | 41.0 | 64.5 |
| RSBU - 16 | 2" (60.3) | 85 | 85 | 100.0 | 49.0 | 76.5 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Reducing Union
RSUR



| Part No. | Tube O.D. | | h | L | l | H ₁ | H ₂ |
|------------------|----------------|----------------|----|------|----|----------------|----------------|
| | D ₁ | D ₂ | | | | | |
| RSUR 8M - 6M | 8.0 | 6.0 | 17 | 32.5 | 16 | 19 | 17 |
| RSUR 10M - 8M | 10.0 | 8.0 | 19 | 34.0 | 17 | 22 | 19 |
| RSUR 12M - 10M | 12.0 | 10.0 | 22 | 37.0 | 18 | 24 | 22 |
| RSUR 14M - 12M | 14.0 | 12.0 | 24 | 37.0 | 18 | 27 | 24 |
| RSUR 16M - 14M | 16.0 | 14.0 | 27 | 39.0 | 20 | 30 | 27 |
| RSUR 18M - 16M | 18.0 | 16.0 | 27 | 42.0 | 23 | 30 | 30 |
| RSUR 20M - 18M | 20.0 | 18.0 | 30 | 46.0 | 23 | 32 | 30 |
| RSUR 22M - 20M | 22.0 | 20.0 | 36 | 47.0 | 23 | 36 | 32 |
| RSUR 25M - 22M | 25.0 | 22.0 | 36 | 47.0 | 23 | 41 | 36 |
| RSUR 28M - 25M | 28.0 | 25.0 | 41 | 47.5 | 23 | 46 | 41 |
| RSUR 30M - 28M | 30.0 | 28.0 | 46 | 51.5 | 27 | 46 | 46 |
| RSUR 35M - 30M | 35.0 | 30.0 | 46 | 56.5 | 29 | 50 | 46 |
| RSUR 38M - 35M | 38.0 | 35.0 | 50 | 58.0 | 28 | 55 | 50 |
| RSUR 44.5M - 38M | 44.5 | 38.0 | 65 | 63.0 | 32 | 65 | 55 |
| RSUR 57M - 44.5M | 57.0 | 44.5 | 75 | 68.0 | 35 | 80 | 65 |

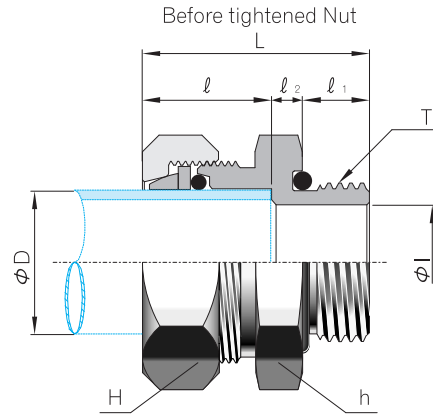
| Part No. | N.P.S. (O.D.) | | h | L | l | H ₁ | H ₂ |
|--------------|----------------|----------------|----|------|----|----------------|----------------|
| | D ₁ | D ₂ | | | | | |
| RSUR 02 - 01 | 1/4" (13.5) | 1/8" | 24 | 37.0 | 18 | 27 | 22 |
| RSUR 03 - 02 | 3/8" (17.2) | 1/4" | 27 | 40.0 | 21 | 30 | 27 |
| RSUR 04 - 03 | 1/2" (21.3) | 3/8" | 32 | 45.0 | 22 | 36 | 30 |
| RSUR 06 - 04 | 3/4" (26.9) | 1/2" | 41 | 47.0 | 23 | 46 | 36 |
| RSUR 08 - 06 | 1" (33.7) | 3/4" | 46 | 51.5 | 27 | 50 | 46 |
| RSUR 10 - 08 | 1 1/4" (42.4) | 1" | 60 | 61.0 | 31 | 65 | 50 |
| RSUR 12 - 10 | 1 1/2" (48.3) | 1" 1/4" | 65 | 64.5 | 33 | 70 | 65 |
| RSUR 16 - 12 | 2" (60.3) | 1" 1/2" | 80 | 74.0 | 38 | 85 | 70 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Male Connector (ISO Metric)

RSOM-M



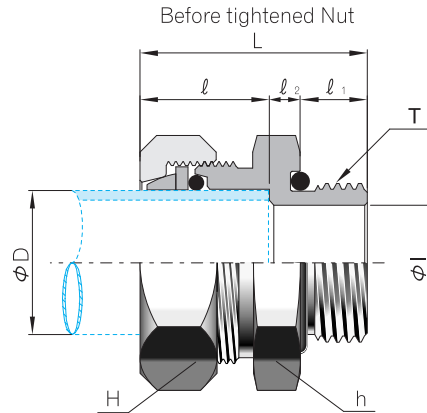
| Part No. | Tube O.D. D | T | h | H | L | l | l ₁ | l ₂ | I |
|------------------|----------------|----------|----|----|------|----|----------------|----------------|----|
| RSOM 6M - M10 | 6.0 | M10X1.0P | 17 | 17 | 27.5 | 16 | 7 | 4.5 | 4 |
| RSOM 8M - M12 | 8.0 | M12X1.0P | 19 | 19 | 28.5 | 16 | 7 | 5.5 | 5 |
| RSOM 10M - M14 | 10.0 | M14X1.5P | 22 | 22 | 32.0 | 17 | 9 | 6.0 | 6 |
| RSOM 12M - M16 | 12.0 | M16X1.5P | 24 | 24 | 33.0 | 18 | 9 | 6.0 | 8 |
| RSOM 14M - M18 | 14.0 | M18X1.5P | 25 | 27 | 35.0 | 18 | 11 | 6.0 | 10 |
| RSOM 15M - M18 | 15.0 | M18X1.5P | 25 | 27 | 35.0 | 18 | 11 | 6.0 | 11 |
| RSOM 16M - M20 | 16.0 | M20X1.5P | 27 | 30 | 37.0 | 20 | 11 | 6.0 | 12 |
| RSOM 18M - M22 | 18.0 | M22X1.5P | 30 | 30 | 41.5 | 23 | 12 | 6.5 | 14 |
| RSOM 20M - M24 | 20.0 | M24X1.5P | 36 | 32 | 41.5 | 23 | 12 | 6.5 | 16 |
| RSOM 22M - M27 | 22.0 | M27X1.5P | 36 | 36 | 43.5 | 23 | 14 | 6.5 | 18 |
| RSOM 25M - M30 | 25.0 | M30X1.5P | 41 | 41 | 43.5 | 23 | 14 | 6.5 | 20 |
| RSOM 28M - M33 | 28.0 | M33X2.0P | 46 | 46 | 44.5 | 23 | 15 | 6.5 | 24 |
| RSOM 30M - M33 | 30.0 | M33X2.0P | 46 | 46 | 48.5 | 27 | 15 | 6.5 | 24 |
| RSOM 35M - M39 | 35.0 | M39X2.0P | 50 | 50 | 52.0 | 29 | 16 | 7.0 | 29 |
| RSOM 38M - M42 | 38.0 | M42X2.0P | 55 | 55 | 52.0 | 28 | 16 | 8.0 | 32 |
| RSOM 44.5M - M48 | 44.5 | M48X2.0P | 65 | 65 | 56.0 | 32 | 16 | 8.0 | 36 |
| RSOM 57M - M60 | 57.0 | M60X4.0P | 75 | 80 | 62.0 | 35 | 18 | 9.0 | 46 |

| Part No. | N.P.S. (O.D.) D | T | h | H | L | l | l ₁ | l ₂ | I |
|---------------|--------------------|----------|----|----|------|----|----------------|----------------|----|
| RSOM 01 - M14 | 1/8" (10.2) | M14X1.5P | 22 | 22 | 31.5 | 17 | 9 | 5.5 | 6 |
| RSOM 02 - M18 | 1/4" (13.5) | M18X1.5P | 25 | 27 | 35.0 | 18 | 11 | 6.0 | 9 |
| RSOM 03 - M20 | 3/8" (17.2) | M20X1.5P | 27 | 30 | 38.0 | 21 | 11 | 6.0 | 12 |
| RSOM 04 - M24 | 1/2" (21.3) | M24X1.5P | 36 | 36 | 40.5 | 22 | 12 | 6.5 | 16 |
| RSOM 06 - M30 | 3/4" (26.9) | M30X1.5P | 41 | 46 | 43.5 | 23 | 14 | 6.5 | 20 |
| RSOM 08 - M39 | 1" (33.7) | M39X2.0P | 50 | 50 | 50.0 | 27 | 16 | 7.0 | 29 |
| RSOM 10 - M45 | 1 1/4" (42.4) | M45X2.0P | 60 | 65 | 55.0 | 31 | 16 | 8.0 | 34 |
| RSOM 12 - M48 | 1 1/2" (48.3) | M48X2.0P | 65 | 70 | 57.0 | 33 | 16 | 8.0 | 36 |
| RSOM 16 - M60 | 2" (60.3) | M60X4.0P | 80 | 85 | 62.5 | 38 | 18 | 8.5 | 46 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Male Connector(BSP Paralleled)

RSOM-G



| Part No. | Tube O.D. D | T G(PF) | h | H | L | ℓ | ℓ ₁ | ℓ ₂ | I |
|------------------|----------------|------------|----|----|------|----|----------------|----------------|----|
| RSOM 6M - 01G | 6.0 | 1/8" | 17 | 17 | 26.5 | 16 | 6 | 4.5 | 4 |
| RSOM 8M - 02G | 8.0 | 1/4" | 22 | 19 | 29.5 | 16 | 8 | 5.5 | 5 |
| RSOM 10M - 02G | 10.0 | 1/4" | 22 | 22 | 30.5 | 17 | 8 | 5.5 | 6 |
| RSOM 12M - 03G | 12.0 | 3/8" | 24 | 24 | 32.0 | 18 | 8 | 6.0 | 8 |
| RSOM 14M - 03G | 14.0 | 3/8" | 24 | 27 | 32.0 | 18 | 8 | 6.0 | 10 |
| RSOM 15M - 04G | 15.0 | 1/2" | 32 | 27 | 34.5 | 18 | 10 | 6.5 | 11 |
| RSOM 16M - 04G | 16.0 | 1/2" | 30 | 30 | 36.5 | 20 | 10 | 6.5 | 12 |
| RSOM 18M - 04G | 18.0 | 1/2" | 32 | 30 | 39.5 | 23 | 10 | 6.5 | 13 |
| RSOM 20M - 04G | 20.0 | 1/2" | 32 | 32 | 39.5 | 23 | 10 | 6.5 | 13 |
| RSOM 22M - 04G | 22.0 | 1/2" | 36 | 36 | 39.5 | 23 | 10 | 6.5 | 13 |
| RSOM 25M - 06G | 25.0 | 3/4" | 36 | 41 | 43.5 | 23 | 14 | 6.5 | 18 |
| RSOM 28M - 08G | 28.0 | 1" | 46 | 46 | 43.5 | 23 | 14 | 6.5 | 24 |
| RSOM 30M - 08G | 30.0 | 1" | 46 | 46 | 47.5 | 27 | 14 | 6.5 | 24 |
| RSOM 35M - 10G | 35.0 | 1 1/4" | 55 | 50 | 53.0 | 29 | 16 | 8.0 | 30 |
| RSOM 38M - 10G | 38.0 | 1 1/4" | 60 | 55 | 52.0 | 28 | 16 | 8.0 | 31 |
| RSOM 44.5M - 12G | 44.5 | 1 1/2" | 65 | 65 | 56.0 | 32 | 16 | 8.0 | 36 |
| RSOM 57M - 16G | 57.0 | 2" | 75 | 80 | 61.5 | 35 | 18 | 8.5 | 46 |

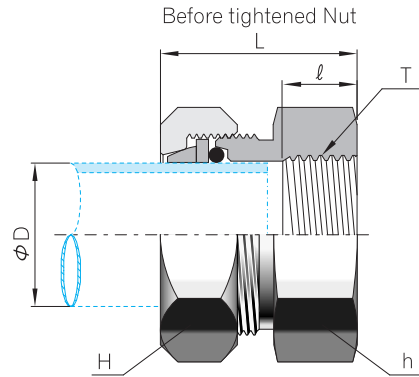
| Part No. | N.P.S. (O.D.) D | T G(PF) | h | H | L | ℓ | ℓ ₁ | ℓ ₂ | I |
|---------------|--------------------|------------|----|----|------|----|----------------|----------------|----|
| RSOM 01 - 01G | 1/8" (10.2) | 1/8" | 19 | 22 | 30.5 | 17 | 8 | 5.5 | 6 |
| RSOM 02 - 02G | 1/4" (13.5) | 1/4" | 24 | 27 | 31.5 | 18 | 8 | 5.5 | 7 |
| RSOM 03 - 03G | 3/8" (17.2) | 3/8" | 27 | 30 | 35.0 | 21 | 8 | 6.0 | 10 |
| RSOM 04 - 04G | 1/2" (21.3) | 1/2" | 32 | 36 | 38.5 | 22 | 10 | 6.5 | 13 |
| RSOM 06 - 06G | 3/4" (26.9) | 3/4" | 41 | 46 | 43.5 | 23 | 14 | 6.5 | 18 |
| RSOM 08 - 08G | 1" (33.7) | 1" | 46 | 50 | 47.5 | 27 | 14 | 6.5 | 25 |
| RSOM 10 - 10G | 1 1/4" (42.4) | 1 1/4" | 60 | 65 | 55.0 | 31 | 16 | 8.0 | 31 |
| RSOM 12 - 12G | 1 1/2" (48.3) | 1 1/2" | 65 | 70 | 57.0 | 33 | 16 | 8.0 | 36 |
| RSOM 16 - 16G | 2" (60.3) | 2" | 80 | 85 | 64.5 | 38 | 18 | 8.5 | 46 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Female Connector(ISO Metric)

RSFC-M



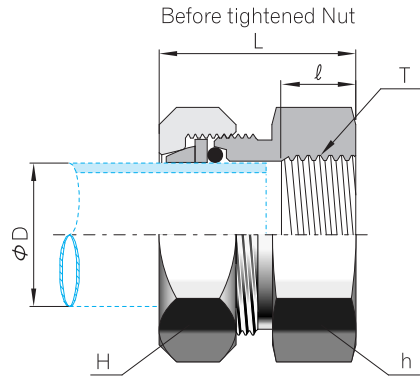
| Part No. | Tube O.D. D | T | h | H | L | ℓ |
|------------------|----------------|----------|----|----|------|----|
| RSFC 6M - M10 | 6.0 | M10X1.0P | 14 | 17 | 23,5 | 8 |
| RSFC 8M - M12 | 8.0 | M12X1.0P | 17 | 19 | 23,5 | 8 |
| RSFC 10M - M14 | 10.0 | M14X1.5P | 19 | 22 | 27.0 | 10 |
| RSFC 12M - M16 | 12.0 | M16X1.5P | 22 | 24 | 27.5 | 10 |
| RSFC 14M - M18 | 14.0 | M18X1.5P | 24 | 27 | 29,5 | 12 |
| RSFC 15M - M18 | 15.0 | M18X1.5P | 24 | 27 | 29,5 | 12 |
| RSFC 16M - M20 | 16.0 | M20X1.5P | 27 | 30 | 31,5 | 12 |
| RSFC 18M - M22 | 18.0 | M22X1.5P | 30 | 30 | 33,5 | 13 |
| RSFC 20M - M24 | 20.0 | M24X1.5P | 32 | 32 | 34,0 | 13 |
| RSFC 22M - M27 | 22.0 | M27X1.5P | 36 | 36 | 35,0 | 15 |
| RSFC 25M - M30 | 25.0 | M30X1.5P | 41 | 41 | 37,0 | 15 |
| RSFC 28M - M33 | 28.0 | M33X2.0P | 41 | 46 | 38,0 | 16 |
| RSFC 30M - M33 | 30.0 | M33X2.0P | 46 | 46 | 41,0 | 16 |
| RSFC 35M - M39 | 35.0 | M39X2.0P | 46 | 50 | 44,0 | 17 |
| RSFC 38M - M42 | 38.0 | M42X2.0P | 50 | 55 | 44,0 | 17 |
| RSFC 44.5M - M48 | 44,5 | M48X2.0P | 65 | 65 | 46,0 | 17 |
| RSFC 57M - M60 | 57,0 | M60X4,0P | 75 | 80 | 53,0 | 19 |

| Part No. | N.P.S. (O.D.) D | T | h | H | L | ℓ |
|---------------|--------------------|----------|----|----|------|----|
| RSFC 01 - M14 | 1/8" (10,2) | M14X1.5P | 19 | 22 | 27,0 | 10 |
| RSFC 02 - M18 | 1/4" (13,5) | M18X1.5P | 24 | 27 | 29,5 | 12 |
| RSFC 03 - M20 | 3/8" (17,2) | M20X1.5P | 27 | 30 | 32,0 | 12 |
| RSFC 04 - M24 | 1/2" (21,3) | M24X1.5P | 32 | 36 | 34,0 | 13 |
| RSFC 06 - M30 | 3/4" (26,9) | M30X1.5P | 41 | 46 | 37,0 | 15 |
| RSFC 08 - M39 | 1" (33,7) | M39X2.0P | 46 | 50 | 42,0 | 17 |
| RSFC 10 - M45 | 1 1/4" (42,4) | M45X2.0P | 60 | 65 | 45,0 | 17 |
| RSFC 12 - M48 | 1 1/2" (48,3) | M48X2.0P | 65 | 70 | 47,0 | 17 |
| RSFC 16 - M60 | 2" (60,3) | M60X4,0P | 80 | 85 | 56,0 | 19 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Female Connector(BSP Paralleled)

RSFC-G



| Part No. | Tube O.D. D | T G(PF) | h | H | L | l |
|------------------|----------------|------------|----|----|------|------|
| RSFC 6M - 01G | 6.0 | 1/8" | 14 | 17 | 23.5 | 8.0 |
| RSFC 8M - 02G | 8.0 | 1/4" | 19 | 19 | 25.5 | 10.0 |
| RSFC 10M - 02G | 10.0 | 1/4" | 19 | 22 | 27.0 | 10.0 |
| RSFC 12M - 03G | 12.0 | 3/8" | 22 | 24 | 30.0 | 12.0 |
| RSFC 14M - 03G | 14.0 | 3/8" | 24 | 27 | 30.0 | 12.0 |
| RSFC 15M - 04G | 15.0 | 1/2" | 27 | 27 | 33.0 | 13.5 |
| RSFC 16M - 04G | 16.0 | 1/2" | 27 | 30 | 33.0 | 13.5 |
| RSFC 18M - 04G | 18.0 | 1/2" | 27 | 30 | 34.0 | 13.5 |
| RSFC 20M - 04G | 20.0 | 1/2" | 30 | 32 | 35.0 | 13.5 |
| RSFC 22M - 04G | 22.0 | 1/2" | 36 | 36 | 35.0 | 13.5 |
| RSFC 25M - 06G | 25.0 | 3/4" | 36 | 41 | 37.0 | 15.0 |
| RSFC 28M - 08G | 28.0 | 1" | 41 | 46 | 41.0 | 18.5 |
| RSFC 30M - 08G | 30.0 | 1" | 46 | 46 | 43.0 | 18.5 |
| RSFC 35M - 10G | 35.0 | 1 1/4" | 50 | 50 | 48.0 | 20.5 |
| RSFC 38M - 10G | 38.0 | 1 1/4" | 50 | 55 | 48.0 | 20.5 |
| RSFC 44.5M - 12G | 44.5 | 1 1/2" | 65 | 65 | 50.0 | 21.5 |
| RSFC 57M - 16G | 57.0 | 2" | 75 | 80 | 57.0 | 23.5 |

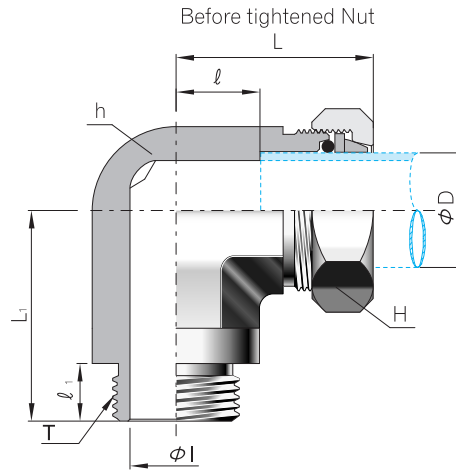
| Part No. | N.P.S. (O.D.) D | T G(PF) | h | H | L | l |
|---------------|--------------------|------------|----|----|------|------|
| RSFC 01 - 01G | 1/8" (10.2) | 1/8" | 19 | 22 | 27.0 | 10.0 |
| RSFC 02 - 02G | 1/4" (13.5) | 1/4" | 24 | 27 | 28.0 | 10.0 |
| RSFC 03 - 03G | 3/8" (17.2) | 3/8" | 27 | 30 | 33.0 | 12.0 |
| RSFC 04 - 04G | 1/2" (21.3) | 1/2" | 32 | 36 | 36.0 | 13.5 |
| RSFC 06 - 06G | 3/4" (26.9) | 3/4" | 41 | 46 | 38.0 | 15.0 |
| RSFC 08 - 08G | 1" (33.7) | 1" | 46 | 50 | 45.0 | 18.5 |
| RSFC 10 - 10G | 1 1/4" (42.4) | 1 1/4" | 60 | 65 | 51.0 | 20.5 |
| RSFC 12 - 12G | 1 1/2" (48.3) | 1 1/2" | 65 | 70 | 54.0 | 21.5 |
| RSFC 16 - 16G | 2" (60.3) | 2" | 80 | 85 | 62.0 | 23.5 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Stud Male Elbow(ISO Metric)

RSLM-M



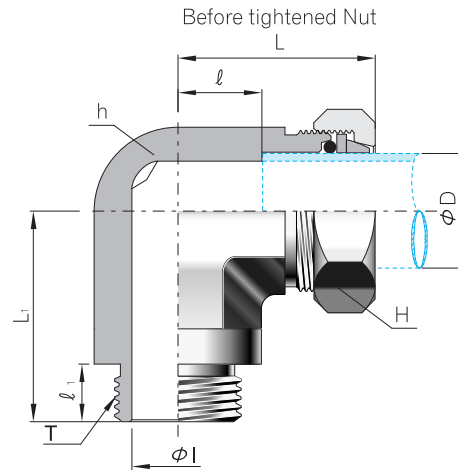
| Part No. | Tube O.D. D | T | h | H | L | L ₁ | l | l ₁ | I |
|----------------|----------------|----------|----|----|------|----------------|------|----------------|----|
| RSLM 6M - M10 | 6 | M10X1.0P | 14 | 17 | 23.5 | 27.0 | 7.0 | 7 | 4 |
| RSLM 8M - M12 | 8 | M12X1.0P | 17 | 19 | 27.5 | 30.0 | 8.0 | 7 | 5 |
| RSLM 10M - M14 | 10 | M14X1.5P | 17 | 22 | 28.0 | 30.0 | 9.5 | 9 | 6 |
| RSLM 12M - M16 | 12 | M16X1.5P | 22 | 24 | 33.0 | 37.0 | 10.5 | 9 | 8 |
| RSLM 14M - M18 | 14 | M18X1.5P | 24 | 27 | 33.0 | 37.0 | 11.0 | 11 | 10 |
| RSLM 15M - M18 | 15 | M18X1.5P | 24 | 27 | 36.5 | 37.0 | 13.0 | 11 | 11 |
| RSLM 16M - M20 | 16 | M20X1.5P | 24 | 30 | 36.5 | 42.5 | 13.0 | 11 | 12 |
| RSLM 18M - M22 | 18 | M22X1.5P | 30 | 30 | 37.5 | 42.5 | 13.5 | 12 | 14 |
| RSLM 20M - M24 | 20 | M24X1.5P | 30 | 32 | 43.0 | 42.5 | 15.5 | 12 | 16 |
| RSLM 22M - M27 | 22 | M27X1.5P | 32 | 36 | 44.0 | 49.0 | 18.0 | 14 | 18 |
| RSLM 25M - M30 | 25 | M30X1.5P | 36 | 41 | 46.5 | 49.0 | 19.5 | 14 | 20 |
| RSLM 28M - M33 | 28 | M33X2.0P | 41 | 46 | 46.5 | 55.0 | 21.0 | 15 | 24 |
| RSLM 30M - M33 | 30 | M33X2.0P | 41 | 46 | 51.5 | 55.0 | 22.0 | 15 | 24 |
| RSLM 35M - M39 | 35 | M39X2.0P | 46 | 50 | 57.0 | 64.0 | 26.0 | 16 | 29 |
| RSLM 38M - M42 | 38 | M42X2.0P | 50 | 55 | 60.0 | 64.0 | 25.0 | 16 | 32 |

| Part No. | N.P.S. (O.D.) D | T | h | H | L | L ₁ | l | l ₁ | I |
|---------------|--------------------|----------|----|----|------|----------------|------|----------------|----|
| RSLM 01 - M14 | 1/8" (10.2) | M14X1.5P | 19 | 22 | 28.0 | 30.0 | 9.5 | 9 | 6 |
| RSLM 02 - M18 | 1/4" (13.5) | M18X1.5P | 24 | 27 | 33.0 | 37.0 | 11.0 | 11 | 9 |
| RSLM 03 - M20 | 3/8" (17.2) | M20X1.5P | 27 | 30 | 37.0 | 42.5 | 14.0 | 11 | 12 |
| RSLM 04 - M24 | 1/2" (21.3) | M24X1.5P | 32 | 36 | 43.0 | 42.5 | 18.0 | 12 | 16 |
| RSLM 06 - M30 | 3/4" (26.9) | M30X1.5P | 41 | 46 | 46.5 | 49.0 | 21.0 | 14 | 20 |
| RSLM 08 - M39 | 1" (33.7) | M39X2.0P | 46 | 50 | 55.5 | 64.0 | 21.0 | 16 | 29 |
| RSLM 10 - M45 | 1 1/4" (42.4) | M45X2.0P | 60 | 65 | 61.0 | 69.0 | 31.0 | 16 | 34 |
| RSLM 12 - M48 | 1 1/2" (48.3) | M48X2.0P | 65 | 70 | 68.0 | 69.0 | 33.0 | 16 | 36 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Stub Female Adaptor(BSP Paralleled)

RSLM-G



| Part No. | Tube O.D. D | T G(PF) | h | H | L | L ₁ | l | l ₁ | I |
|------------------|----------------|------------|----|----|------|----------------|------|----------------|----|
| RSLM 6M - 01G | 6.0 | 1/8" | 14 | 17 | 23.5 | 27.0 | 7.0 | 6 | 4 |
| RSLM 8M - 02G | 8.0 | 1/4" | 17 | 19 | 27.5 | 30.0 | 8.0 | 8 | 5 |
| RSLM 10M - 02G | 10.0 | 1/4" | 17 | 22 | 28.0 | 30.0 | 9.5 | 8 | 6 |
| RSLM 12M - 03G | 12.0 | 3/8" | 22 | 24 | 33.0 | 37.0 | 10.5 | 8 | 8 |
| RSLM 14M - 03G | 14.0 | 3/8" | 24 | 27 | 33.0 | 37.0 | 11.0 | 8 | 10 |
| RSLM 15M - 04G | 15.0 | 1/2" | 27 | 27 | 36.5 | 42.5 | 13.0 | 10 | 11 |
| RSLM 16M - 04G | 16.0 | 1/2" | 27 | 30 | 36.5 | 42.5 | 13.0 | 10 | 12 |
| RSLM 18M - 04G | 18.0 | 1/2" | 27 | 30 | 37.5 | 42.5 | 13.5 | 10 | 13 |
| RSLM 20M - 04G | 20.0 | 1/2" | 30 | 32 | 43.0 | 42.5 | 15.5 | 10 | 13 |
| RSLM 22M - 04G | 22.0 | 1/2" | 32 | 36 | 44.0 | 42.5 | 18.0 | 10 | 13 |
| RSLM 25M - 06G | 25.0 | 3/4" | 36 | 41 | 46.5 | 49.0 | 19.5 | 14 | 18 |
| RSLM 28M - 08G | 28.0 | 1" | 41 | 46 | 46.5 | 55.0 | 21.0 | 14 | 24 |
| RSLM 30M - 08G | 30.0 | 1" | 41 | 46 | 51.5 | 55.0 | 22.0 | 14 | 24 |
| RSLM 35M - 10G | 35.0 | 1 1/4" | 50 | 50 | 57.0 | 64.0 | 26.0 | 16 | 30 |
| RSLM 38M - 10G | 38.0 | 1 1/4" | 50 | 55 | 60.0 | 64.0 | 25.0 | 16 | 31 |
| RSLM 44.5M - 12G | 44.5 | 1 1/2" | 60 | 65 | 68.5 | 69.0 | 33.0 | 16 | 36 |

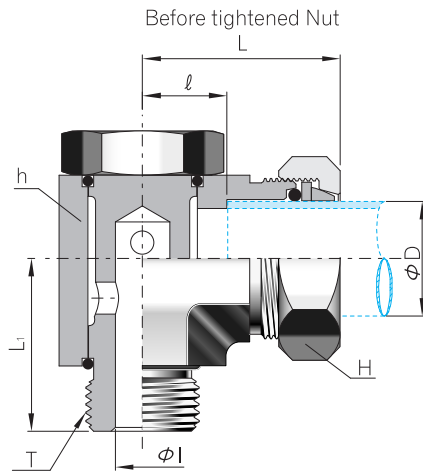
| Part No. | N.P.S. (O.D.) D | T G(PF) | h | H | L | L ₁ | l | l ₁ | I |
|---------------|--------------------|------------|----|----|------|----------------|------|----------------|----|
| RSLM 01 - 01G | 1/8" (10.2) | 1/8" | 17 | 22 | 28.0 | 30.0 | 9.5 | 8 | 6 |
| RSLM 02 - 02G | 1/4" (13.5) | 1/4" | 24 | 27 | 33.0 | 30.0 | 11.0 | 8 | 7 |
| RSLM 03 - 03G | 3/8" (17.2) | 3/8" | 27 | 30 | 37.0 | 37.0 | 14.0 | 8 | 10 |
| RSLM 04 - 04G | 1/2" (21.3) | 1/2" | 32 | 36 | 43.0 | 42.5 | 18.0 | 10 | 13 |
| RSLM 06 - 06G | 3/4" (26.9) | 3/4" | 41 | 46 | 46.5 | 49.0 | 21.0 | 14 | 18 |
| RSLM 08 - 08G | 1" (33.7) | 1" | 46 | 50 | 55.5 | 55.0 | 21.0 | 14 | 25 |
| RSLM 10 - 10G | 1 1/4" (42.4) | 1 1/4" | 60 | 65 | 61.0 | 64.0 | 31.0 | 16 | 31 |
| RSLM 12 - 12G | 1 1/2" (48.3) | 1 1/2" | 65 | 70 | 68.0 | 69.0 | 33.0 | 16 | 36 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Banjo Elbow Fitting

RSBJ



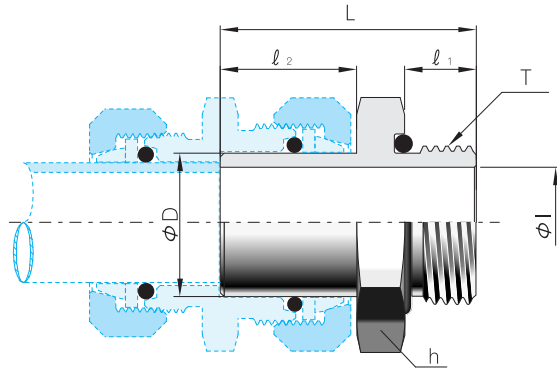
| Part No. | Tube O.D. D | T G(PF) | h | H | L | L ₁ | l | I |
|------------------|----------------|------------|--------------------------------------------|---|---|----------------|---|---|
| RSBJ 6M - 01G | 6.0 | 1/8" | other dimensions accomplished upon request | | | | | |
| RSBJ 8M - 02G | 8.0 | 1/4" | | | | | | |
| RSBJ 10M - 02G | 10.0 | 1/4" | | | | | | |
| RSBJ 12M - 03G | 12.0 | 3/8" | | | | | | |
| RSBJ 14M - 03G | 14.0 | 3/8" | | | | | | |
| RSBJ 15M - 04G | 15.0 | 1/2" | | | | | | |
| RSBJ 16M - 04G | 16.0 | 1/2" | | | | | | |
| RSBJ 18M - 04G | 18.0 | 1/2" | | | | | | |
| RSBJ 20M - 04G | 20.0 | 1/2" | | | | | | |
| RSBJ 22M - 04G | 22.0 | 1/2" | | | | | | |
| RSBJ 25M - 06G | 25.0 | 3/4" | | | | | | |
| RSBJ 28M - 08G | 28.0 | 1" | | | | | | |
| RSBJ 30M - 08G | 30.0 | 1" | | | | | | |
| RSBJ 35M - 10G | 35.0 | 1 1/4" | | | | | | |
| RSBJ 38M - 10G | 38.0 | 1 1/4" | | | | | | |
| RSBJ 44.5M - 12G | 44.5 | 1 1/2" | | | | | | |

| Part No. | N.P.S. (O.D.) D | T G(PF) | h | H | L | L ₁ | l | I |
|---------------|--------------------|------------|--------------------------------------------|---|---|----------------|---|---|
| RSBJ 01 - 01G | 1/8" (10.2) | 1/8" | other dimensions accomplished upon request | | | | | |
| RSBJ 02 - 02G | 1/4" (13.5) | 1/4" | | | | | | |
| RSBJ 03 - 03G | 3/8" (17.2) | 3/8" | | | | | | |
| RSBJ 04 - 04G | 1/2" (21.3) | 1/2" | | | | | | |
| RSBJ 06 - 06G | 3/4" (26.9) | 3/4" | | | | | | |
| RSBJ 08 - 08G | 1" (33.7) | 1" | | | | | | |
| RSBJ 10 - 10G | 1 1/4" (42.4) | 1 1/4" | | | | | | |
| RSBJ 12 - 12G | 1 1/2" (48.3) | 1 1/2" | | | | | | |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Stub Male Adaptor(ISO Metric)

RSA-M



| Part No. | Tube O.D. D | T | h | L | l ₁ | l ₂ | I |
|-----------------|----------------|----------|----|------|----------------|----------------|----|
| RSA 6M - M10 | 6.0 | M10X1.0P | 17 | 27.5 | 7 | 16 | 4 |
| RSA 8M - M12 | 8.0 | M12X1.0P | 19 | 30.5 | 7 | 18 | 5 |
| RSA 10M - M14 | 10.0 | M14X1.5P | 22 | 32.5 | 9 | 18 | 6 |
| RSA 12M - M16 | 12.0 | M16X1.5P | 24 | 35.0 | 9 | 20 | 8 |
| RSA 14M - M18 | 14.0 | M18X1.5P | 25 | 36.5 | 11 | 20 | 10 |
| RSA 15M - M18 | 15.0 | M18X1.5P | 25 | 39.0 | 11 | 22 | 11 |
| RSA 16M - M20 | 16.0 | M20X1.5P | 27 | 39.0 | 11 | 22 | 12 |
| RSA 18M - M22 | 18.0 | M22X1.5P | 30 | 42.5 | 12 | 24 | 14 |
| RSA 20M - M24 | 20.0 | M24X1.5P | 32 | 44.5 | 12 | 26 | 16 |
| RSA 22M - M27 | 22.0 | M27X1.5P | 36 | 46.5 | 14 | 28 | 18 |
| RSA 25M - M30 | 25.0 | M30X1.5P | 41 | 50.5 | 14 | 30 | 20 |
| RSA 28M - M33 | 28.0 | M33X2.0P | 46 | 51.5 | 15 | 30 | 24 |
| RSA 30M - M33 | 30.0 | M33X2.0P | 46 | 53.5 | 15 | 32 | 24 |
| RSA 35M - M39 | 35.0 | M39X2.0P | 50 | 57.0 | 16 | 34 | 29 |
| RSA 38M - M42 | 38.0 | M42X2.0P | 55 | 60.0 | 16 | 36 | 32 |
| RSA 44.5M - M48 | 44.5 | M48X2.0P | 60 | 62.0 | 16 | 40 | 36 |
| RSA 57M - M60 | 57.0 | M60X4.0P | 75 | 72.0 | 18 | 46 | 46 |

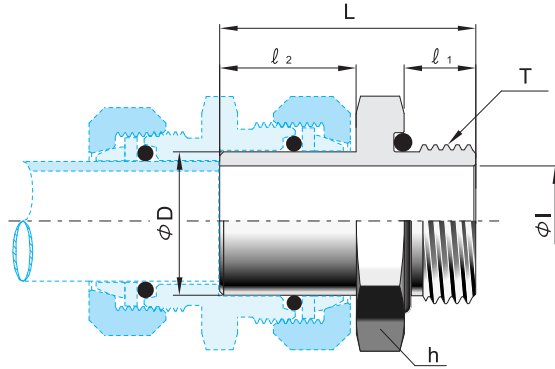
| Part No. | N.P.S. (O.D.) D | T | h | L | l ₁ | l ₂ | I |
|--------------|--------------------|----------|----|------|----------------|----------------|----|
| RSA 01 - M14 | 1/8" (10.2) | M14X1.5P | 22 | 32.5 | 9 | 18 | 6 |
| RSA 02 - M18 | 1/4" (13.5) | M18X1.5P | 25 | 36.5 | 11 | 20 | 9 |
| RSA 03 - M20 | 3/8" (17.2) | M20X1.5P | 27 | 41.0 | 11 | 24 | 12 |
| RSA 04 - M24 | 1/2" (21.3) | M24X1.5P | 32 | 44.5 | 12 | 26 | 16 |
| RSA 06 - M30 | 3/4" (26.9) | M30X1.5P | 41 | 50.5 | 14 | 30 | 20 |
| RSA 08 - M39 | 1" (33.7) | M39X2.0P | 50 | 56.5 | 16 | 34 | 29 |
| RSA 10 - M45 | 1 1/4" (42.4) | M45X2.0P | 55 | 64.0 | 16 | 40 | 34 |
| RSA 12 - M48 | 1 1/2" (48.3) | M48X2.0P | 60 | 66.0 | 16 | 42 | 36 |
| RSA 16 - M60 | 2" (60.3) | M60X4.0P | 75 | 75.0 | 18 | 49 | 46 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Stub Male Adaptor(BSP Paralleled)

RSA-G



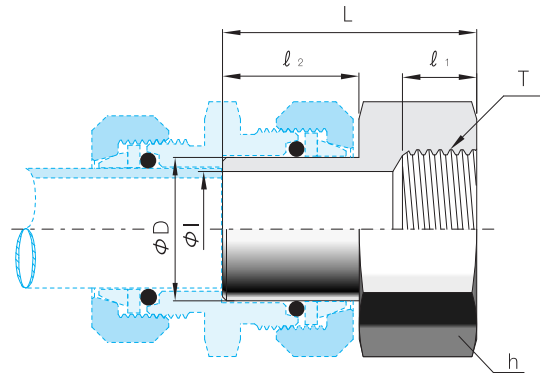
| Part No. | Tube O.D. D | T G(PF) | h | L | l_1 | l_2 | I |
|-----------------|----------------|------------|----|----|-------|-------|----|
| RSA 6M - 01G | 6.0 | 1/8" | 17 | 28 | 6 | 16 | 4 |
| RSA 8M - 02G | 8.0 | 1/4" | 22 | 33 | 8 | 18 | 5 |
| RSA 10M - 02G | 10.0 | 1/4" | 22 | 33 | 8 | 18 | 6 |
| RSA 12M - 03G | 12.0 | 3/8" | 24 | 35 | 8 | 20 | 8 |
| RSA 14M - 03G | 14.0 | 3/8" | 24 | 35 | 8 | 20 | 10 |
| RSA 15M - 04G | 15.0 | 1/2" | 30 | 41 | 10 | 22 | 11 |
| RSA 16M - 04G | 16.0 | 1/2" | 30 | 41 | 10 | 22 | 12 |
| RSA 18M - 04G | 18.0 | 1/2" | 30 | 43 | 10 | 24 | 13 |
| RSA 20M - 04G | 20.0 | 1/2" | 30 | 45 | 10 | 26 | 13 |
| RSA 22M - 04G | 22.0 | 1/2" | 30 | 47 | 10 | 28 | 13 |
| RSA 25M - 06G | 25.0 | 3/4" | 36 | 53 | 14 | 30 | 18 |
| RSA 28M - 08G | 28.0 | 1" | 41 | 55 | 14 | 30 | 24 |
| RSA 30M - 08G | 30.0 | 1" | 41 | 57 | 14 | 32 | 24 |
| RSA 35M - 10G | 35.0 | 1 1/4" | 55 | 66 | 16 | 34 | 30 |
| RSA 38M - 10G | 38.0 | 1 1/4" | 55 | 68 | 16 | 36 | 31 |
| RSA 44.5M - 12G | 44.5 | 1 1/2" | 60 | 72 | 16 | 40 | 36 |
| RSA 57M - 16G | 57.0 | 2" | 75 | 80 | 18 | 46 | 46 |

| Part No. | N.P.S. (O.D.) D | T G(PF) | h | L | l_1 | l_2 | I |
|--------------|--------------------|------------|----|----|-------|-------|----|
| RSA 01 - 01G | 1/8" (10.2) | 1/8" | 17 | 33 | 8 | 18 | 6 |
| RSA 02 - 02G | 1/4" (13.5) | 1/4" | 22 | 35 | 8 | 20 | 7 |
| RSA 03 - 03G | 3/8" (17.2) | 3/8" | 24 | 39 | 8 | 24 | 10 |
| RSA 04 - 04G | 1/2" (21.3) | 1/2" | 30 | 45 | 10 | 26 | 13 |
| RSA 06 - 06G | 3/4" (26.9) | 3/4" | 36 | 53 | 14 | 30 | 18 |
| RSA 08 - 08G | 1" (33.7) | 1" | 41 | 59 | 14 | 34 | 25 |
| RSA 10 - 10G | 1 1/4" (42.4) | 1 1/4" | 55 | 72 | 16 | 40 | 31 |
| RSA 12 - 12G | 1 1/2" (48.3) | 1 1/2" | 60 | 74 | 16 | 42 | 36 |
| RSA 16 - 16G | 2" (60.3) | 2" | 75 | 83 | 18 | 49 | 46 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Stub Female Adaptor(ISO Metric)

RSAF-M



| Part No. | Tube O.D. D | T | h | L | l_1 | l_2 | I |
|------------------|----------------|----------|----|------|-------|-------|----|
| RSAF 6M - M10 | 6.0 | M10X1.0P | 14 | 27.5 | 8 | 16 | 4 |
| RSAF 8M - M12 | 8.0 | M12X1.0P | 17 | 30.0 | 8 | 18 | 5 |
| RSAF 10M - M14 | 10.0 | M14X1.5P | 19 | 32.5 | 10 | 18 | 6 |
| RSAF 12M - M16 | 12.0 | M16X1.5P | 22 | 34.5 | 10 | 20 | 8 |
| RSAF 14M - M18 | 14.0 | M18X1.5P | 24 | 37.0 | 12 | 20 | 10 |
| RSAF 15M - M18 | 15.0 | M18X1.5P | 24 | 39.0 | 12 | 22 | 11 |
| RSAF 16M - M20 | 16.0 | M20X1.5P | 27 | 39.0 | 12 | 22 | 12 |
| RSAF 18M - M22 | 18.0 | M22X1.5P | 30 | 42.0 | 13 | 24 | 14 |
| RSAF 20M - M24 | 20.0 | M24X1.5P | 32 | 44.0 | 13 | 26 | 16 |
| RSAF 22M - M27 | 22.0 | M27X1.5P | 36 | 48.0 | 15 | 28 | 18 |
| RSAF 25M - M30 | 25.0 | M30X1.5P | 41 | 50.0 | 15 | 30 | 20 |
| RSAF 28M - M33 | 28.0 | M33X2.0P | 41 | 51.0 | 16 | 30 | 24 |
| RSAF 30M - M33 | 30.0 | M33X2.0P | 41 | 53.0 | 16 | 32 | 24 |
| RSAF 35M - M39 | 35.0 | M39X2.0P | 46 | 56.0 | 17 | 34 | 29 |
| RSAF 38M - M42 | 38.0 | M42X2.0P | 50 | 58.0 | 17 | 36 | 32 |
| RSAF 44.5M - M48 | 44.5 | M48X2.0P | 60 | 62.5 | 17 | 40 | 36 |
| RSAF 57M - M60 | 57.0 | M60X4.0P | 70 | 71.0 | 19 | 46 | 46 |

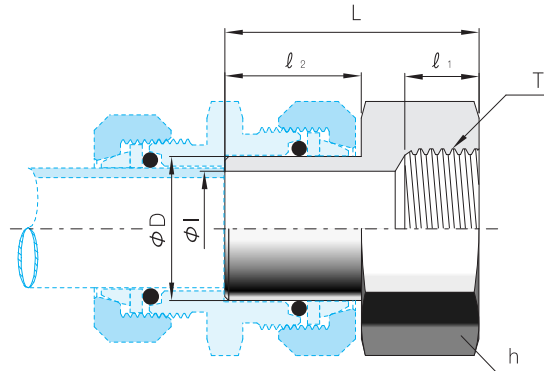
| Part No. | N.P.S. (O.D.) D | T | h | L | l_1 | l_2 | I |
|---------------|--------------------|----------|----|------|-------|-------|----|
| RSAF 01 - M14 | 1/8" (10.2) | M14X1.5P | 19 | 32.5 | 10 | 18 | 6 |
| RSAF 02 - M18 | 1/4" (13.5) | M18X1.5P | 24 | 37.0 | 12 | 20 | 9 |
| RSAF 03 - M20 | 3/8" (17.2) | M20X1.5P | 27 | 41.0 | 12 | 24 | 12 |
| RSAF 04 - M24 | 1/2" (21.3) | M24X1.5P | 32 | 44.0 | 13 | 26 | 16 |
| RSAF 06 - M30 | 3/4" (26.9) | M30X1.5P | 41 | 50.0 | 15 | 30 | 20 |
| RSAF 08 - M39 | 1" (33.7) | M39X2.0P | 46 | 56.0 | 17 | 34 | 27 |
| RSAF 10 - M45 | 1 1/4" (42.4) | M45X2.0P | 55 | 62.5 | 17 | 40 | 34 |
| RSAF 12 - M48 | 1 1/2" (48.3) | M48X2.0P | 60 | 64.5 | 17 | 42 | 36 |
| RSAF 16 - M60 | 2" (60.3) | M60X4.0P | 70 | 74.0 | 19 | 49 | 46 |

All dimensions are in millimeters. dimensions are for reference only, subject to change.

RS Fittings

Stub Female Adaptor(BSP Paralleled)

RSAF-G

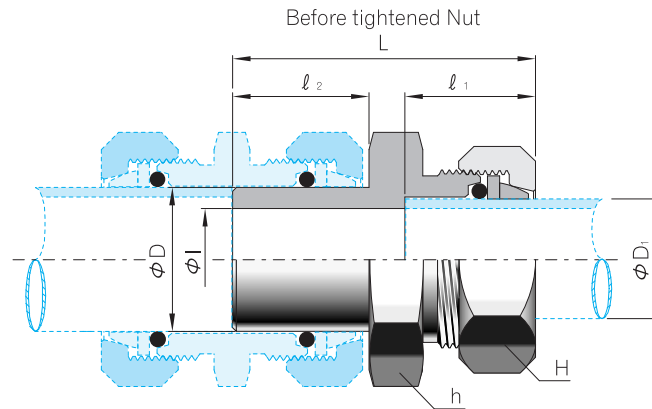


| Part No. | Tube O.D. D | T G(PF) | h | L | l ₁ | l ₂ | I |
|------------------|----------------|------------|----|------|----------------|----------------|----|
| RSAF 6M - 01G | 6.0 | 1/8" | 14 | 27.5 | 8.0 | 16 | 4 |
| RSAF 8M - 02G | 8.0 | 1/4" | 19 | 32.0 | 10.0 | 18 | 5 |
| RSAF 10M - 02G | 10.0 | 1/4" | 19 | 32.0 | 10.0 | 18 | 6 |
| RSAF 12M - 03G | 12.0 | 3/8" | 22 | 36.5 | 12.0 | 20 | 8 |
| RSAF 14M - 03G | 14.0 | 3/8" | 22 | 36.5 | 12.0 | 20 | 10 |
| RSAF 15M - 04G | 15.0 | 1/2" | 27 | 40.0 | 13.5 | 22 | 11 |
| RSAF 16M - 04G | 16.0 | 1/2" | 27 | 40.0 | 13.5 | 22 | 12 |
| RSAF 18M - 04G | 18.0 | 1/2" | 27 | 42.0 | 13.5 | 24 | 14 |
| RSAF 20M - 04G | 20.0 | 1/2" | 27 | 44.0 | 13.5 | 26 | 16 |
| RSAF 22M - 04G | 22.0 | 1/2" | 27 | 46.0 | 13.5 | 28 | 18 |
| RSAF 25M - 06G | 25.0 | 3/4" | 32 | 50.0 | 15.0 | 30 | 21 |
| RSAF 28M - 08G | 28.0 | 1" | 41 | 53.0 | 18.5 | 30 | 24 |
| RSAF 30M - 08G | 30.0 | 1" | 41 | 55.0 | 18.5 | 32 | 24 |
| RSAF 35M - 10G | 35.0 | 1 1/4" | 50 | 59.5 | 20.5 | 34 | 30 |
| RSAF 38M - 10G | 38.0 | 1 1/4" | 50 | 61.5 | 20.5 | 36 | 32 |
| RSAF 44.5M - 12G | 44.5 | 1 1/2" | 60 | 67.0 | 21.5 | 40 | 38 |
| RSAF 57M - 16G | 57.0 | 2" | 70 | 75.5 | 23.5 | 46 | 51 |

| Part No. | N.P.S. (O.D.) D | T G(PF) | h | L | l ₁ | l ₂ | I |
|---------------|--------------------|------------|----|------|----------------|----------------|----|
| RSAF 01 - 01G | 1/8" (10.2) | 1/8" | 14 | 32.0 | 10.0 | 18 | 6 |
| RSAF 02 - 02G | 1/4" (13.5) | 1/4" | 19 | 34.0 | 10.0 | 20 | 9 |
| RSAF 03 - 03G | 3/8" (17.2) | 3/8" | 22 | 40.5 | 12.0 | 24 | 12 |
| RSAF 04 - 04G | 1/2" (21.3) | 1/2" | 27 | 44.0 | 13.5 | 26 | 16 |
| RSAF 06 - 06G | 3/4" (26.9) | 3/4" | 32 | 50.0 | 15.0 | 30 | 21 |
| RSAF 08 - 08G | 1" (33.7) | 1" | 41 | 57.0 | 18.5 | 34 | 27 |
| RSAF 10 - 10G | 1 1/4" (42.4) | 1 1/4" | 50 | 65.5 | 20.5 | 40 | 36 |
| RSAF 12 - 12G | 1 1/2" (48.3) | 1 1/2" | 60 | 69.0 | 21.5 | 42 | 42 |
| RSAF 16 - 16G | 2" (60.3) | 2" | 70 | 78.5 | 23.5 | 49 | 52 |

All dimensions are in millimeters, dimensions are for reference only, subject to change.

Reducing Union Adaptor
RSR



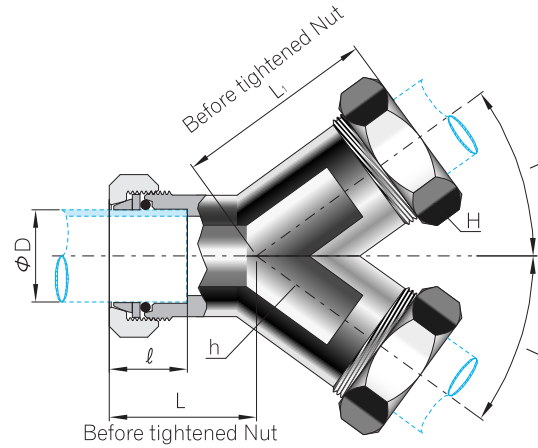
| Part No. | Tube O.D. | | h | H | L | l_1 | l_2 | I |
|-----------------|----------------|----------------|----|----|------|-------|-------|----|
| | D ₁ | D ₂ | | | | | | |
| RSR 8M - 6M | 8.0 | 6 | 14 | 17 | 37.5 | 16 | 18 | 4 |
| RSR 10M - 8M | 10.0 | 8 | 17 | 19 | 37.5 | 16 | 18 | 6 |
| RSR 12M - 10M | 12.0 | 10 | 19 | 22 | 40.5 | 17 | 20 | 8 |
| RSR 14M - 10M | 14.0 | 10 | 19 | 22 | 40.5 | 17 | 20 | 8 |
| RSR 15M - 12M | 15.0 | 12 | 22 | 24 | 44.0 | 18 | 22 | 10 |
| RSR 16M - 14M | 16.0 | 14 | 24 | 27 | 44.5 | 18 | 22 | 12 |
| RSR 18M - 16M | 18.0 | 16 | 27 | 30 | 48.5 | 20 | 24 | 14 |
| RSR 20M - 16M | 20.0 | 16 | 27 | 30 | 50.5 | 20 | 26 | 14 |
| RSR 22M - 16M | 22.0 | 16 | 27 | 30 | 52.5 | 20 | 28 | 14 |
| RSR 25M - 22M | 25.0 | 22 | 36 | 36 | 58.0 | 23 | 30 | 18 |
| RSR 28M - 22M | 28.0 | 22 | 36 | 36 | 58.0 | 23 | 30 | 18 |
| RSR 30M - 22M | 30.0 | 22 | 36 | 36 | 60.0 | 23 | 32 | 18 |
| RSR 35M - 28M | 35.0 | 28 | 41 | 46 | 62.0 | 23 | 34 | 25 |
| RSR 38M - 28M | 38.0 | 28 | 41 | 46 | 64.0 | 23 | 36 | 25 |
| RSR 44.5M - 35M | 44.5 | 35 | 46 | 50 | 74.5 | 29 | 40 | 29 |
| RSR 57M - 38M | 57.0 | 38 | 50 | 55 | 78.5 | 28 | 46 | 32 |

| Part No. | N.P.S. (O.D.) | | h | H | L | l_1 | l_2 | I |
|-------------|----------------|----------------|----|----|------|-------|-------|----|
| | D ₁ | D ₂ | | | | | | |
| RSR 02 - 01 | 1/4" (13.5) | 1/8" | 19 | 22 | 40.5 | 17 | 20 | 8 |
| RSR 03 - 02 | 3/8" (17.2) | 1/4" | 24 | 27 | 46.0 | 18 | 24 | 12 |
| RSR 04 - 03 | 1/2" (21.3) | 3/8" | 27 | 30 | 51.5 | 21 | 26 | 14 |
| RSR 06 - 04 | 3/4" (26.9) | 1/2" | 32 | 36 | 57.0 | 22 | 30 | 16 |
| RSR 08 - 06 | 1" (33.7) | 3/4" | 41 | 46 | 62.0 | 23 | 34 | 20 |
| RSR 10 - 08 | 1 1/4" (42.4) | 1" | 46 | 50 | 72.0 | 27 | 40 | 29 |
| RSR 12 - 10 | 1 1/2" (48.3) | 1 1/4" | 60 | 65 | 78.0 | 31 | 42 | 34 |
| RSR 16 - 12 | 2" (60.3) | 1 1/2" | 65 | 70 | 87.5 | 33 | 49 | 36 |

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RS Fittings

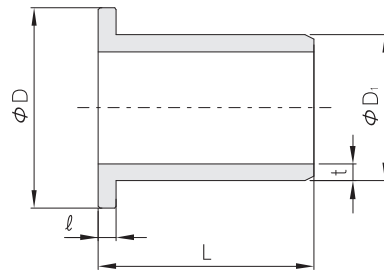
Y-Branch RSYB



| Part No. | Tube O.D. D | T° | h | H | L | L ₁ | ℓ |
|------------|----------------|----|----|----|----|----------------|----|
| RSYB - 22M | 22 | 36 | 30 | 36 | 45 | 63 | 26 |

| Part No. | N.P.S. (O.D.) D | T° | h | H | L | L ₁ | ℓ |
|-----------|--------------------|----|----|----|----|----------------|----|
| RSYB - 08 | 1" (33.7) | 36 | 46 | 50 | 48 | 66 | 20 |
| RSYB - 10 | 1 1/4" (42.4) | 30 | 50 | 65 | 36 | 89 | 25 |

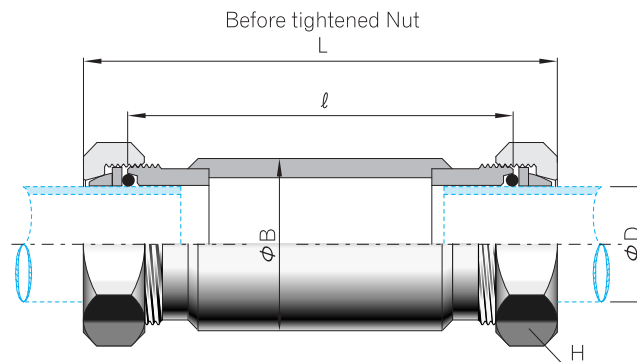
Tube Insert SRI



| Part No. | Tube O.D. D | D ₁ | L | ℓ | t |
|----------|----------------|------------------------------------------|------|-----|-----|
| SRI 6M | 6 | "D1" Dimension according tube thickness. | 14.0 | 1.0 | 0.7 |
| SRI 8M | 8 | | 16.0 | 1.0 | 1.0 |
| SRI 10M | 10 | | 18.0 | 1.0 | 1.0 |
| SRI 12M | 12 | | 18.0 | 1.0 | 1.5 |
| SRI 14M | 14 | | 18.5 | 1.0 | 1.5 |
| SRI 15M | 15 | | 20.0 | 1.0 | 1.5 |
| SRI 16M | 16 | | 20.5 | 1.0 | 1.5 |
| SRI 18M | 18 | | 20.5 | 1.0 | 2.0 |
| SRI 20M | 20 | | 21.0 | 1.5 | 2.0 |
| SRI 22M | 22 | | 22.0 | 1.5 | 2.0 |
| SRI 25M | 25 | | 23.0 | 1.5 | 3.0 |
| SRI 28M | 28 | | 23.0 | 1.5 | 3.0 |
| SRI 30M | 30 | | 24.0 | 2.0 | 3.0 |
| SRI 35M | 35 | | 26.0 | 2.0 | 4.0 |
| SRI 38M | 38 | | 28.0 | 2.0 | 4.0 |
| SRI 45M | 44.5 | | 31.0 | 2.5 | 4.0 |
| SRI 57M | 57 | | 37.0 | 2.5 | 5.0 |

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Bridge Coupling
RSBC



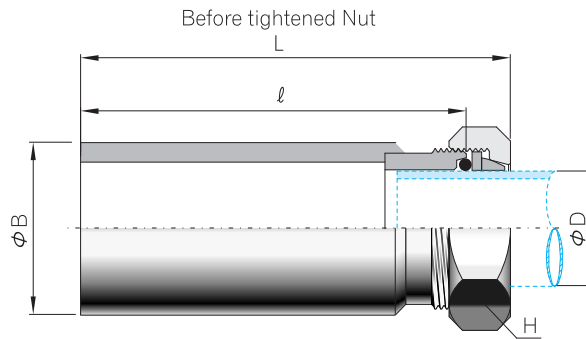
| Part No. | Tube O.D. D | B | H | L | | | |
|--------------|----------------|------|----|----------|-----------|-----------|-----------|
| | | | | $l = 85$ | $l = 100$ | $l = 150$ | $l = 200$ |
| RSBC - 6M | 6.0 | 20.0 | 17 | 99 | 114 | 164 | 214 |
| RSBC - 8M | 8.0 | 20.0 | 19 | 99 | 114 | 164 | 214 |
| RSBC - 10M | 10.0 | 25.0 | 22 | 101 | 116 | 166 | 216 |
| RSBC - 12M | 12.0 | 25.0 | 24 | 101 | 116 | 166 | 216 |
| RSBC - 14M | 14.0 | 30.0 | 27 | 101 | 116 | 166 | 216 |
| RSBC - 15M | 15.0 | 30.0 | 27 | 103 | 118 | 168 | 218 |
| RSBC - 16M | 16.0 | 30.0 | 30 | 103 | 118 | 168 | 218 |
| RSBC - 18M | 18.0 | 30.0 | 30 | 105 | 120 | 170 | 220 |
| RSBC - 20M | 20.0 | 35.0 | 32 | 105 | 120 | 170 | 220 |
| RSBC - 22M | 22.0 | 35.0 | 36 | 105 | 120 | 170 | 220 |
| RSBC - 25M | 25.0 | 38.0 | 41 | 107 | 122 | 172 | 222 |
| RSBC - 28M | 28.0 | 40.0 | 46 | 107 | 122 | 172 | 222 |
| RSBC - 30M | 30.0 | 45.0 | 46 | 107 | 122 | 172 | 222 |
| RSBC - 35M | 35.0 | 51.0 | 50 | 111 | 126 | 176 | 226 |
| RSBC - 38M | 38.0 | 54.0 | 55 | 109 | 124 | 174 | 224 |
| RSBC - 44.5M | 44.5 | 63.5 | 65 | 111 | 126 | 176 | 226 |
| RSBC - 57M | 57.0 | 76.1 | 80 | 113 | 128 | 178 | 228 |

| Part No. | N.P.S. (O.D.) D | B | H | L | | | |
|-----------|--------------------|------|----|----------|-----------|-----------|-----------|
| | | | | $l = 85$ | $l = 100$ | $l = 150$ | $l = 200$ |
| RSBC - 01 | 1/8" (10.2) | 25.0 | 22 | 101 | 116 | 166 | 216 |
| RSBC - 02 | 1/4" (13.5) | 30.0 | 27 | 101 | 116 | 166 | 216 |
| RSBC - 03 | 3/8" (17.2) | 30.0 | 30 | 103 | 118 | 168 | 218 |
| RSBC - 04 | 1/2" (21.3) | 35.0 | 36 | 105 | 120 | 170 | 220 |
| RSBC - 06 | 3/4" (26.9) | 40.0 | 46 | 105 | 120 | 170 | 220 |
| RSBC - 08 | 1" (33.7) | 51.0 | 50 | 107 | 122 | 172 | 222 |
| RSBC - 10 | 1 1/4" (42.4) | 60.3 | 65 | 111 | 126 | 176 | 226 |
| RSBC - 12 | 1 1/2" (48.3) | 70.0 | 70 | 111 | 126 | 176 | 226 |
| RSBC - 16 | 2" (60.3) | 82.5 | 85 | 115 | 130 | 180 | 230 |

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RS Fittings

Bridge Half Coupling RSBHC

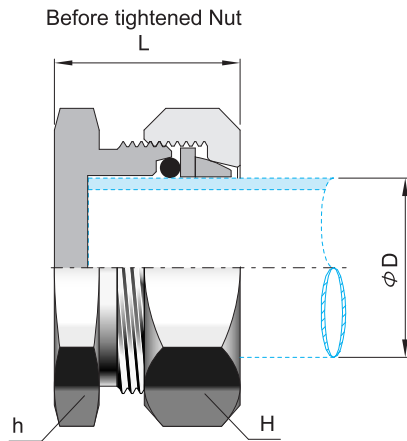


| Part No. | Tube O.D. D | B | H | L | | | |
|---------------|----------------|------|----|----------|-----------|-----------|-----------|
| | | | | $l = 85$ | $l = 100$ | $l = 150$ | $l = 200$ |
| RSBHC - 6M | 6.0 | 20.0 | 17 | 92 | 107 | 157 | 207 |
| RSBHC - 8M | 8.0 | 20.0 | 19 | 92 | 107 | 157 | 207 |
| RSBHC - 10M | 10.0 | 25.0 | 22 | 93 | 108 | 158 | 208 |
| RSBHC - 12M | 12.0 | 25.0 | 24 | 93 | 108 | 158 | 208 |
| RSBHC - 14M | 14.0 | 30.0 | 27 | 93 | 108 | 158 | 208 |
| RSBHC - 15M | 15.0 | 30.0 | 27 | 94 | 109 | 159 | 209 |
| RSBHC - 16M | 16.0 | 30.0 | 30 | 94 | 109 | 159 | 209 |
| RSBHC - 18M | 18.0 | 30.0 | 30 | 95 | 110 | 160 | 210 |
| RSBHC - 20M | 20.0 | 35.0 | 32 | 95 | 110 | 160 | 210 |
| RSBHC - 22M | 22.0 | 35.0 | 36 | 95 | 110 | 160 | 210 |
| RSBHC - 25M | 25.0 | 38.0 | 41 | 96 | 111 | 161 | 211 |
| RSBHC - 28M | 28.0 | 40.0 | 46 | 96 | 111 | 161 | 211 |
| RSBHC - 30M | 30.0 | 45.0 | 46 | 96 | 111 | 161 | 211 |
| RSBHC - 35M | 35.0 | 51.0 | 50 | 98 | 113 | 163 | 213 |
| RSBHC - 38M | 38.0 | 54.0 | 55 | 97 | 112 | 162 | 212 |
| RSBHC - 44.5M | 44.5 | 63.5 | 65 | 98 | 113 | 163 | 213 |
| RSBHC - 57M | 57.0 | 76.1 | 80 | 99 | 114 | 164 | 214 |

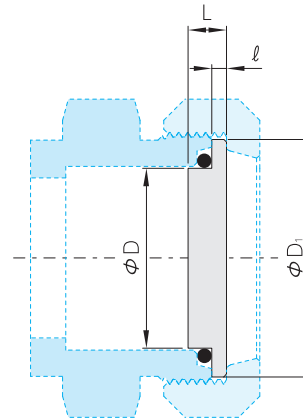
| Part No. | N.P.S. (O.D.) D | B | H | L | | | |
|------------|--------------------|------|----|----------|-----------|-----------|-----------|
| | | | | $l = 85$ | $l = 100$ | $l = 150$ | $l = 200$ |
| RSBHC - 01 | 1/8" (10.2) | 25.0 | 22 | 93 | 108 | 158 | 208 |
| RSBHC - 02 | 1/4" (13.5) | 30.0 | 27 | 93 | 108 | 158 | 208 |
| RSBHC - 03 | 3/8" (17.2) | 30.0 | 30 | 94 | 109 | 159 | 209 |
| RSBHC - 04 | 1/2" (21.3) | 35.0 | 36 | 95 | 110 | 160 | 210 |
| RSBHC - 06 | 3/4" (26.9) | 40.0 | 46 | 95 | 110 | 160 | 210 |
| RSBHC - 08 | 1" (33.7) | 51.0 | 50 | 96 | 111 | 161 | 211 |
| RSBHC - 10 | 1 1/4" (42.4) | 60.3 | 65 | 98 | 113 | 163 | 213 |
| RSBHC - 12 | 1 1/2" (48.3) | 70.0 | 70 | 98 | 113 | 163 | 213 |
| RSBHC - 16 | 2" (60.3) | 82.5 | 85 | 100 | 115 | 165 | 215 |

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Plug
RSP



Cap
RSCA



| Part No. | Tube O.D. D | h | H | L |
|-------------|----------------|----|----|------|
| RSP - 6M | 6.0 | 14 | 17 | 17.5 |
| RSP - 8M | 8.0 | 17 | 19 | 17.5 |
| RSP - 10M | 10.0 | 19 | 22 | 19.0 |
| RSP - 12M | 12.0 | 22 | 24 | 19.0 |
| RSP - 14M | 14.0 | 24 | 27 | 20.0 |
| RSP - 15M | 15.0 | 24 | 27 | 22.0 |
| RSP - 16M | 16.0 | 27 | 30 | 22.0 |
| RSP - 18M | 18.0 | 27 | 30 | 23.0 |
| RSP - 20M | 20.0 | 30 | 32 | 23.5 |
| RSP - 22M | 22.0 | 36 | 36 | 25.0 |
| RSP - 25M | 25.0 | 36 | 41 | 25.0 |
| RSP - 28M | 28.0 | 41 | 46 | 25.0 |
| RSP - 30M | 30.0 | 46 | 46 | 28.0 |
| RSP - 35M | 35.0 | 46 | 50 | 31.5 |
| RSP - 38M | 38.0 | 50 | 55 | 32.5 |
| RSP - 44.5M | 44.5 | 65 | 65 | 34.0 |
| RSP - 57M | 57.0 | 75 | 80 | 40.0 |

| Part No. | Tube O.D. D | h | H | L |
|--------------|----------------|-----|-----|------|
| RSCA - 6M | 6.0 | 3.5 | 1.5 | 12.0 |
| RSCA - 8M | 8.0 | 3.5 | 1.5 | 14.0 |
| RSCA - 10M | 10.0 | 3.5 | 1.5 | 16.0 |
| RSCA - 12M | 12.0 | 4.5 | 1.5 | 18.9 |
| RSCA - 14M | 14.0 | 4.5 | 1.5 | 20.9 |
| RSCA - 15M | 15.0 | 4.5 | 1.5 | 21.9 |
| RSCA - 16M | 16.0 | 5.0 | 2.0 | 22.9 |
| RSCA - 18M | 18.0 | 5.0 | 2.0 | 24.8 |
| RSCA - 20M | 20.0 | 5.0 | 2.0 | 26.8 |
| RSCA - 22M | 22.0 | 6.0 | 2.0 | 30.8 |
| RSCA - 25M | 25.0 | 6.5 | 2.5 | 33.8 |
| RSCA - 28M | 28.0 | 6.5 | 2.5 | 36.0 |
| RSCA - 30M | 30.0 | 6.5 | 2.5 | 39.7 |
| RSCA - 35M | 35.0 | 6.5 | 2.5 | 43.7 |
| RSCA - 38M | 38.0 | 6.5 | 2.5 | 46.7 |
| RSCA - 44.5M | 44.5 | 9.0 | 3.0 | 57.6 |
| RSCA - 57M | 57.0 | 9.0 | 3.0 | 69.6 |

| Part No. | N.P.S. (O.D.) D | h | H | L |
|----------|--------------------|----|----|------|
| RSP - 01 | 1/8" (10.2) | 19 | 22 | 19.0 |
| RSP - 02 | 1/4" (13.5) | 24 | 27 | 20.0 |
| RSP - 03 | 3/8" (17.2) | 27 | 30 | 22.5 |
| RSP - 04 | 1/2" (21.3) | 32 | 36 | 24.0 |
| RSP - 06 | 3/4" (26.9) | 41 | 46 | 25.0 |
| RSP - 08 | 1" (33.7) | 46 | 50 | 28.0 |
| RSP - 10 | 1 1/4" (42.4) | 60 | 65 | 33.0 |
| RSP - 12 | 1 1/2" (48.3) | 65 | 70 | 35.0 |
| RSP - 16 | 2" (60.3) | 80 | 85 | 41.0 |

| Part No. | N.P.S. (O.D.) D | h | H | L |
|-----------|--------------------|-----|-----|------|
| RSCA - 01 | 1/8" (10.2) | 3.5 | 1.5 | 16.0 |
| RSCA - 02 | 1/4" (13.5) | 4.5 | 1.5 | 20.9 |
| RSCA - 03 | 3/8" (17.2) | 5.0 | 2.0 | 23.9 |
| RSCA - 04 | 1/2" (21.3) | 6.0 | 2.0 | 29.8 |
| RSCA - 06 | 3/4" (26.9) | 6.5 | 2.5 | 36.0 |
| RSCA - 08 | 1" (33.7) | 6.5 | 2.5 | 43.7 |
| RSCA - 10 | 1 1/4" (42.4) | 9.0 | 3.0 | 55.7 |
| RSCA - 12 | 1 1/2" (48.3) | 9.0 | 3.0 | 60.6 |
| RSCA - 16 | 2" (60.3) | 9.0 | 3.0 | 73.6 |

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