

AI8095 COUPLEUR A. VISSER

Femelle - Female

AI8095 COUPLEUR A. VISSER

Mâle - Male

| Code<br>Code | Type<br>Type                      |  |  |  |  |  |  |
|--------------|-----------------------------------|--|--|--|--|--|--|
| AI809500014  | VD12F-DN20-1/2"G-Pmax=400B-M42x2  |  |  |  |  |  |  |
| AI809500016  | VD34F-DN20-3/4"G-Pmax=300B-M42x2  |  |  |  |  |  |  |
| AI809500018  | VD100F-DN25-3/4"G-Pmax=300B-M48x3 |  |  |  |  |  |  |
| AI809500020  | VD100F-DN25-1"G-Pmax=300B-M48x3   |  |  |  |  |  |  |
| AI809500022  | VD114F-DN31.5-1.1/4"G-M70x3       |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |

| Code<br>Code | Type<br>Type                      |  |  |  |  |  |  |
|--------------|-----------------------------------|--|--|--|--|--|--|
| AI809500015  | VD12M-DN20-1/2"G-Pmax=400B-M42x2  |  |  |  |  |  |  |
| AI809500017  | VD34M-DN20-3/4"G-Pmax=300B-M42x2  |  |  |  |  |  |  |
| AI809500019  | VD100M-DN25-3/4"G-Pmax=300B-M48x3 |  |  |  |  |  |  |
| AI809500021  | VD100M-DN25-1"G-Pmax=300B-M48x3   |  |  |  |  |  |  |
| AI809500023  | VD114M-DN31.5-1.1/4"G-M70x3       |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |
| *            | *                                 |  |  |  |  |  |  |

# VD SERIES

INTERCHANGE > ISO 14541



## TECHNICAL FEATURES AND OPTIONS

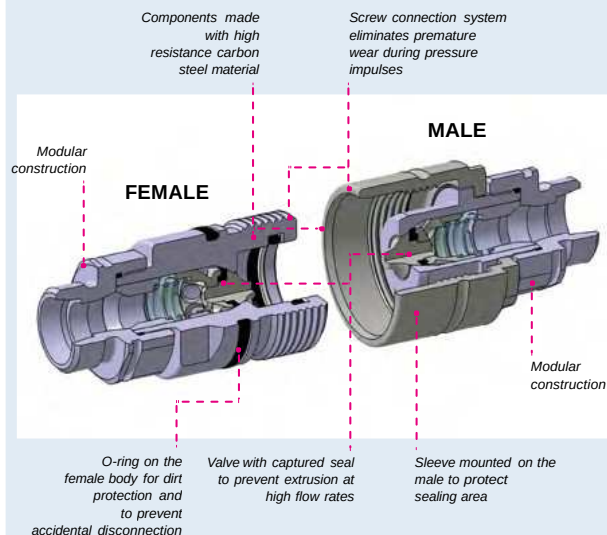
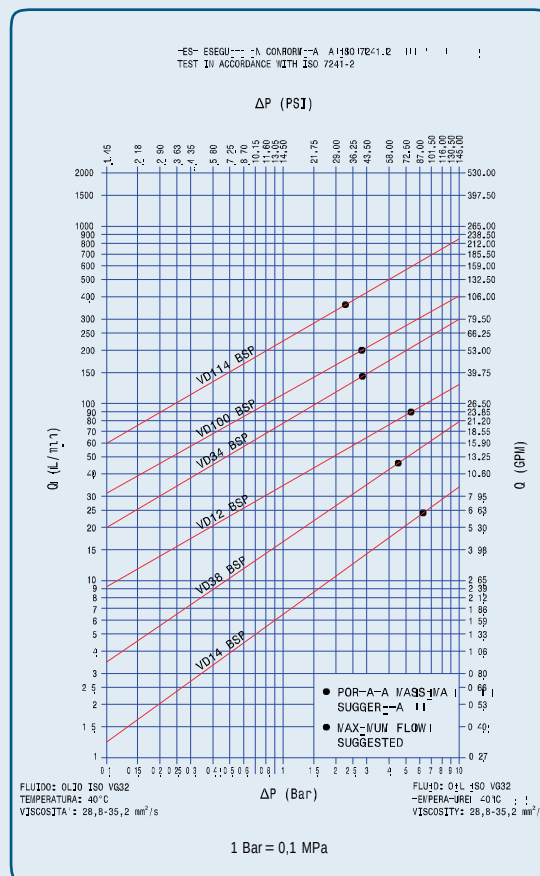
|                                                                                                                                   |                                                                                                                                    |                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Interchange</b><br>ISO 14541                |  <b>Sealing description</b><br>Nitrile NBR       |  <b>Connection system</b><br>Screw                                                       |
|  <b>Available sizes</b><br>from 1/4" to 1-1/4" |  <b>Material/treatment</b><br>Carbon steel /Cr3 |  <b>Available threads</b><br>BSP - METRIC                                               |
|  <b>Operating pressure</b><br>Up to 450 bar    |  <b>Locking mechanism</b><br>Screw to connect   |  <b>Flow rate</b><br>Up to 378 L/Min                                                    |
|  <b>Temperature (°C)</b><br>-20° / +100°       |  <b>Valving style</b><br>Poppet                 |  <b>Connection under pressure</b><br>Connection: one side<br>Disconnection: not allowed |

## BENEFITS

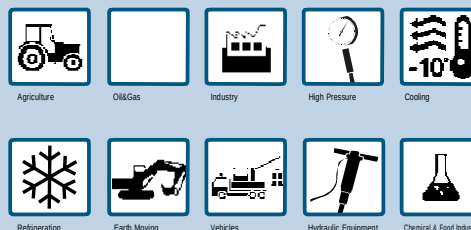
- Connection is allowed with residual pressure in one side of the coupling (max 100 bar in one side)
- The poppet valve with elastomer seal provides maximum sealing of the couplings when disconnected.
- Shape of internal parts is designed to reduce turbulence and pressure drop.
- The modular design allows for broad range of port configurations.
- External o-ring indicates if the product is fully connected, prevent accidental disconnection and protect coupling against dirt.
- Male body sealing surface protected by the threaded sleeve.
- High resistance to pressure impulses.
- Compact design.
- Simple to use.

## HOW TO USE

- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect insert the male coupling in the female coupling, screw the sleeve till its positive stop, do not push together the couplings, screw only.
- The use of tools for the second part of the connection can be necessary if there is high residual pressure in the circuit.
- Check that the external O-ring is fully covered.
- To disconnect unscrew totally the sleeve from the female coupling.



## MAIN APPLICATIONS





## PERFORMANCES

| Size  |          | Series/Size | BG | Max. flow suggested |        | Connect torque* |        | Disconnect torque* |        | Spillage** |
|-------|----------|-------------|----|---------------------|--------|-----------------|--------|--------------------|--------|------------|
| Inch  | mm (ISO) |             |    | l/min               | GPM    | Nm              | lbf ft | Nm                 | lbf ft | ml         |
| 1/4   | 6,3      | VD14        | 1  | 24                  | 6,36   | 0,8             | 0,59   | 0,5                | 0,37   | 0,7        |
| 3/8   | 10       | VD38        | 2  | 46                  | 12,19  | 1,0             | 0,74   | 0,5                | 0,37   | 1          |
| 1/2   | 12,5     | VD12        | 3  | 90                  | 23,85  | 1,5             | 1,11   | 1,2                | 0,88   | 3          |
| 3/4   | 20       | VD34        | 4  | 148                 | 39,22  | 2,5             | 1,84   | 2,2                | 1,62   | 5          |
| 1     | -        | VD100       | 6  | 200                 | 53,00  | 2,7             | 1,99   | 2,2                | 1,62   | 14         |
| 1-1/4 | -        | VD114       | 8  | 378                 | 100,17 | 5,0             | 3,69   | 5,0                | 3,69   | 51         |

| Size  | Series/Size | Max. operating pressure |      |      |      |        |      | Burst pressure |       |      |       |        |       |
|-------|-------------|-------------------------|------|------|------|--------|------|----------------|-------|------|-------|--------|-------|
|       |             | Coupled                 |      | Male |      | Female |      | Coupled        |       | Male |       | Female |       |
| Inch  |             | MPa                     | psi  | MPa  | psi  | MPa    | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |
| 1/4   | VD14        | 45                      | 6525 | 45   | 6525 | 45     | 6525 | 160            | 17400 | 140  | 20300 | 160    | 20300 |
| 3/8   | VD38        | 45                      | 6525 | 45   | 6525 | 45     | 6525 | 140            | 17400 | 120  | 17400 | 140    | 17400 |
| 1/2   | VD12        | 40                      | 5800 | 40   | 5800 | 40     | 5800 | 140            | 17400 | 120  | 17400 | 120    | 17400 |
| 3/4   | VD34        | 40                      | 5800 | 40   | 5800 | 40     | 5800 | 100            | 17400 | 100  | 14500 | 100    | 17400 |
| 1     | VD100       | 30                      | 4350 | 30   | 4350 | 30     | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 |
| 1-1/4 | VD114       | 30                      | 4350 | 30   | 4350 | 30     | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 |

\* Connect torque and disconnect torque without residual pressure.

The torque will increase as internal residual pressure increases.

\*\* Spillage is an indicative value of the fluid loss during disconnection (according to ISO 7241-2 test method)

### Temperature range:

Standard seals NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F).

Please read carefully "instruction and warning" for proper selection of the products.

### Tests performed:

The couplings have been tested at maximum operating pressure for 500,000 impulses according to ISO 7241-2 test method.



## WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not couple-uncouple with flow in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Do not use the coupling disconnected with high impulse pressure.

Connect under pressure products are suitable to be connected under residual (static) pressure.

Connection with residual pressure (pressure trapped in the circuit) allowed with other side coupling to drain.

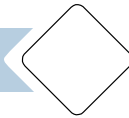
Check the maximum allowable working pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

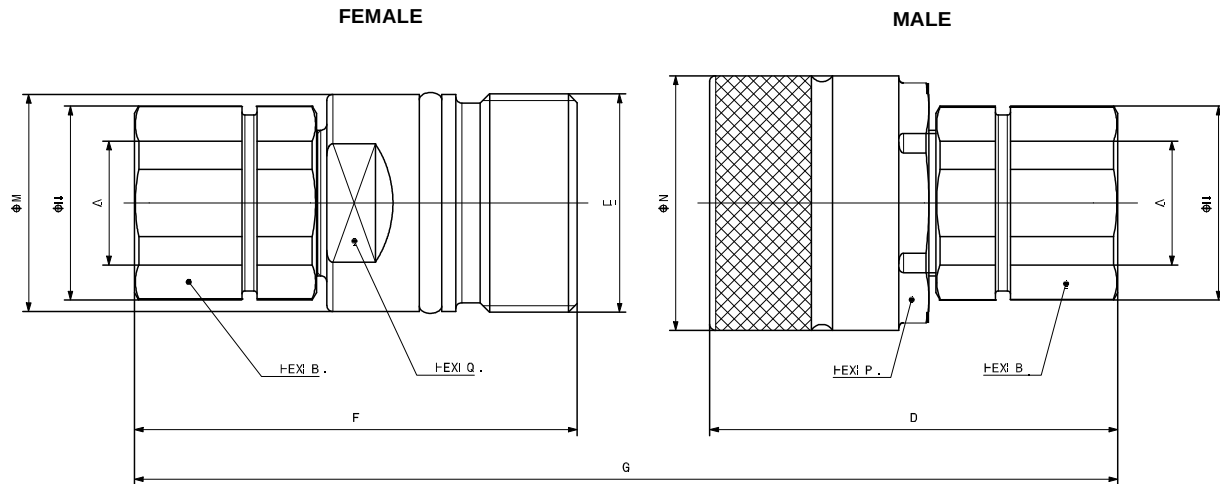
In case of doubt please contact Technical Support.

The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

**It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on website before selecting or using products.**



## OVERALL DIMENSIONS

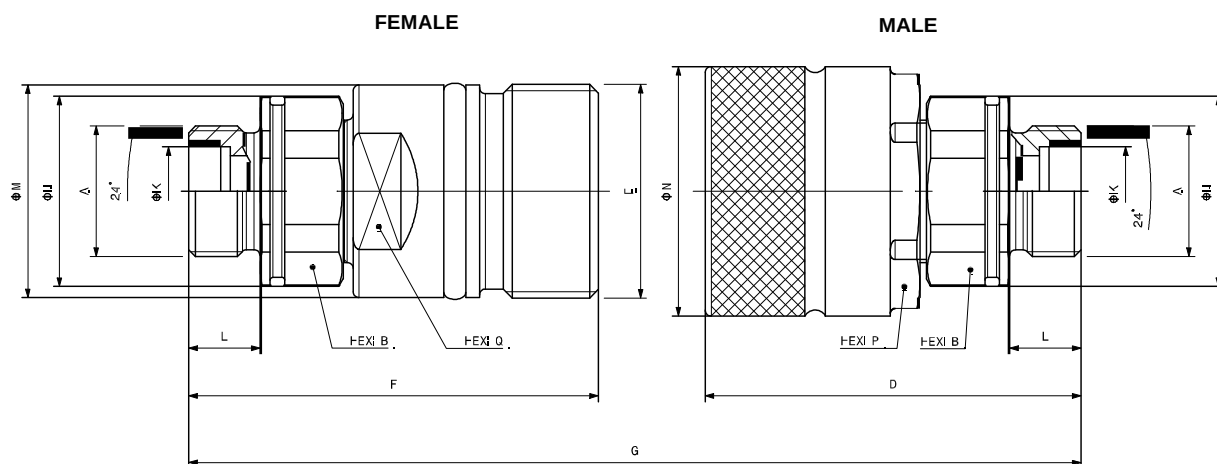


### Port description: FEMALE THREAD BSPP (ISO 1179-1)

| BODY<br>SIZE | Descriptive Code | Item Code | ISO<br>DN | BG   | PORT (A) | E        | Overall Length |       | Length |      | Hex   |      | Diameter |      | Hex  |            | Diameter         |      | Weight |      |      |      |      |
|--------------|------------------|-----------|-----------|------|----------|----------|----------------|-------|--------|------|-------|------|----------|------|------|------------|------------------|------|--------|------|------|------|------|
|              |                  |           |           |      |          |          | mm             | inch  | mm     | inch | mm    | inch | mm       | inch | mm   | inch       | mm               | inch | Kg     | Lbs  |      |      |      |
| 1/4"         | F VD14 BSP       | Female    | 809500006 | 6,3  | 1        | 1/4"     | M24X2          | 94,5  | 3,72   | F    | 61,7  | 2,44 | B        | 19,0 | 0,75 | M          | 23,8             | 0,94 | Q      | 22,0 | 0,87 | 0,13 | 0,28 |
|              | M VD14 BSP       | Male      | 809500007 |      |          |          |                |       |        | D    | 58,5  | 2,31 |          |      | N    | 30,0       | 1,18             | P    | 27,0   | 1,06 | H    | 21,0 | 0,83 |
| 3/8"         | F VD38-14 BSP    | Female    | 809500008 | 10   | 2        | 1/4"     | M28X2          | 99,0  | 3,90   | F    | 64,3  | 2,53 | B        | 22,0 | 0,87 | M          | 27,8             | 1,09 | Q      | 24,0 | 0,94 | 0,19 | 0,41 |
|              | M VD38-14 BSP    | Male      | 809500009 |      |          |          |                |       |        | D    | 61,5  | 2,43 |          |      | N    | 34,0       | 1,34             | P    | 30,0   | 1,18 | H    | 24,0 | 0,94 |
| 3/8"         | F VD38 BSP       | Female    | 809500010 | 10   | 2        | 3/8"     | M28X2          | 105,0 | 4,13   | F    | 67,3  | 2,65 | B        | 22,0 | 0,87 | M          | 27,8             | 1,09 | Q      | 24,0 | 0,94 | 0,19 | 0,18 |
|              | M VD38 BSP       | Male      | 809500011 |      |          |          |                |       |        | D    | 64,5  | 2,55 |          |      | N    | 34,0       | 1,34             | P    | 30,0   | 1,18 | H    | 24,0 | 0,94 |
| 1/2"         | F VD12-38 BSP    | Female    | 809500000 | 12,5 | 3        | 3/8"     | M36X2          | 102,6 | 4,04   | F    | 68,0  | 2,68 | B        | 30,0 | 1,18 | M          | 35,8             | 1,41 | Q      | 30,0 | 1,18 | 0,35 | 0,77 |
|              | M VD12-38 BSP    | Male      | 809500001 |      |          |          |                |       |        | D    | 62,3  | 2,45 |          |      | N    | 42,0       | 1,65             | P    | 36,0   | 1,42 | H    | 32,0 | 1,26 |
| 1/2"         | F VD12 BSP       | Female    | 809500002 | 12,5 | 3        | 1/2"     | M36X2          | 112,6 | 4,43   | F    | 73,0  | 2,87 | B        | 30,0 | 1,18 | M          | 35,8             | 1,41 | Q      | 30,0 | 1,18 | 0,34 | 0,74 |
|              | M VD12 BSP       | Male      | 809500003 |      |          |          |                |       |        | D    | 67,3  | 2,65 |          |      | N    | 42,0       | 1,65             | P    | 36,0   | 1,42 | H    | 32,0 | 1,26 |
| 3/4"         | F VD34-12 BSP    | Female    | 809500014 | 20   | 4        | 1/2"     | M42X2          | 117,5 | 4,63   | F    | 79,4  | 3,13 | B        | 36,0 | 1,42 | M          | 41,8             | 1,65 | Q      | 36,0 | 1,42 | 0,54 | 1,19 |
|              | M VD34-12 BSP    | Male      | 809500015 |      |          |          |                |       |        | D    | 69,9  | 2,76 |          |      | N    | 49,5       | 1,89             | P    | 46,0   | 1,81 | H    | 40,0 | 1,57 |
| 3/4"         | F VD34 BSP       | Female    | 809500016 | 20   | 4        | 3/4"     | M42X2          | 129,3 | 5,09   | F    | 85,3  | 3,36 | B        | 36,0 | 1,42 | M          | 41,8             | 1,65 | Q      | 36,0 | 1,42 | 0,55 | 1,21 |
|              | M VD34 BSP       | Male      | 809500017 |      |          |          |                |       |        | D    | 75,8  | 2,99 |          |      | N    | 49,5       | 1,89             | P    | 46,0   | 1,81 | H    | 40,0 | 1,57 |
| 1"           | F VD100-34 BSP   | Female    | 809500018 | 25   | 6        | 3/4"     | 48X3 SP*       | 139,7 | 5,50   | F    | 95,5  | 3,76 | B        | 41,0 | 1,61 | M          | 47,8             | 1,88 | Q      | 41,0 | 1,61 | 0,75 | 1,64 |
|              | M VD100-34 BSP   | Male      | 809500019 |      |          |          |                |       |        | D    | 79,0  | 3,11 |          |      | N    | 60,0       | 2,17             | P    | 55,0   | 1,97 | H    | 45,0 | 1,77 |
| 1"           | F VD100 BSP      | Female    | 809500020 | 25   | 6        | 1"       | 48X3 SP*       | 150,7 | 5,93   | F    | 101,0 | 3,98 | B        | 41,0 | 1,61 | M          | 47,8             | 1,88 | Q      | 41,0 | 1,61 | 0,74 | 1,63 |
|              | M VD100 BSP      | Male      | 809500021 |      |          |          |                |       |        | D    | 84,5  | 3,33 |          |      | N    | 60,0       | 2,17             | P    | 55,0   | 1,97 | H    | 45,0 | 1,77 |
| 1-1/4"       | F VD114 BSP      | Female    | 809500022 | 31,5 | 8        | 1 - 1/4" | 70X3 SP*       | 189,0 | 7,44   | F    | 117,2 | 4,61 | B        | 55,0 | 2,17 | M          | 68,5             | 2,70 | Q      | 65,0 | 2,56 | 1,70 | 3,74 |
|              | M VD114 BSP      | Male      | 809500023 |      |          |          |                |       |        | D    | 121,0 | 4,76 |          |      | N    | 85 CH80 ** | 3,35 - CH3,15 ** | P    | 80,0   | 3,15 | H    | 61,0 | 2,40 |
| 1-1/4"       | F VD114-112 BSP  | Female    | 809500024 | 31,5 | 8        | 1 - 1/2" | 70X3 SP*       | 201,0 | 7,91   | F    | 123,2 | 4,85 | B        | 55,0 | 2,17 | M          | 68,5             | 2,70 | Q      | 65,0 | 2,56 | 1,66 | 3,66 |
|              | M VD114-112 BSP  | Male      | 809500025 |      |          |          |                |       |        | D    | 127,0 | 5,00 |          |      | N    | 85 CH80 ** | 3,35 - CH3,15 ** | P    | 80,0   | 3,15 | H    | 61,0 | 2,40 |

\*SP = SPECIAL THREAD

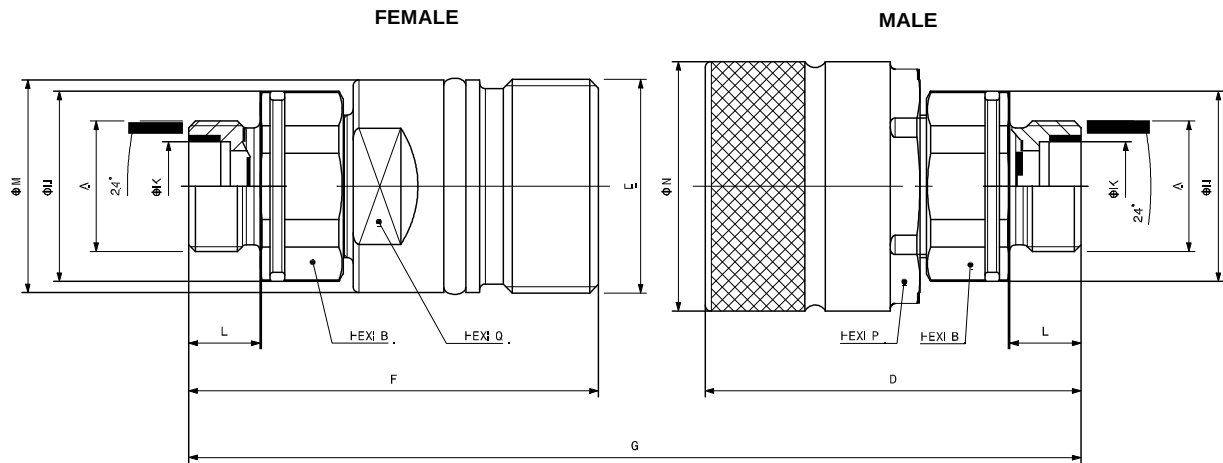
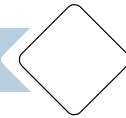
\*\*HEXAGON SLEEVE



Port description: MALE THREAD METRIC L – 24° CONE (ISO 8434-1 & DIN 2353)

| BODY<br>SIZE | Descriptive Code | Item Code | ISO<br>DN | BG   | PORT (A) | E       | Overall Length |      | Length |      | Length |      | Hex  |      | Diameter |      | Diameter |      | Hex  |      | Diameter |      | Weight |      |      |   |      |      |   |      |      |      |       |
|--------------|------------------|-----------|-----------|------|----------|---------|----------------|------|--------|------|--------|------|------|------|----------|------|----------|------|------|------|----------|------|--------|------|------|---|------|------|---|------|------|------|-------|
|              |                  |           |           |      |          |         | mm             | inch | mm     | inch | mm     | inch | mm   | inch | mm       | inch | mm       | inch | mm   | inch | mm       | inch | Kg     | Lbs  |      |   |      |      |   |      |      |      |       |
| 1/4"         | F VD14 L8        | Female    | 809508012 | 6,3  | 1        | M14X1   | M24X2          | G    | 90,5   | 3,56 | F      | 59,7 | 2,36 | L    | 10,0     | 0,39 | B        | 19,0 | 0,75 | K    | 8,0      | 0,31 | M      | 23,8 | 0,94 | Q | 22,0 | 0,87 | H | 21,0 | 0,83 | 0,10 | 0,046 |
|              | M VD14 L8        | Male      | 809508013 |      |          |         |                |      |        |      | D      | 56,5 | 2,23 |      |          |      |          |      |      |      |          |      | N      | 30,0 | 1,18 | P | 27,0 | 1,06 |   |      |      | 0,10 | 0,047 |
| 3/8"         | F VD38 L         | Female    | 809508014 | 10   | 2        | M14X1.5 | M28X2          | G    | 93,0   | 3,66 | F      | 61,3 | 2,41 | L    | 10,0     | 0,39 | B        | 22,0 | 0,87 | K    | 8,0      | 0,31 | M      | 27,8 | 1,09 | Q | 24,0 | 0,94 | H | 24,0 | 0,94 | 0,16 | 0,070 |
|              | M VD38 L8        | Male      | 809508015 |      |          |         |                |      |        |      | D      | 58,5 | 2,31 |      |          |      |          |      |      |      |          |      | N      | 34,0 | 1,34 | P | 30,0 | 1,18 |   |      |      | 0,14 | 0,063 |
| 3/8"         | F VD38 L10       | Female    | 809508016 | 10   | 2        | M16X1.5 | M28X2          | G    | 95,0   | 3,74 | F      | 62,3 | 2,45 | L    | 11,0     | 0,43 | B        | 22,0 | 0,87 | K    | 10,0     | 0,39 | M      | 27,8 | 1,09 | Q | 24,0 | 0,94 | H | 24,0 | 0,94 | 0,17 | 0,07  |
|              | M VD38 L10       | Male      | 809508017 |      |          |         |                |      |        |      | D      | 59,5 | 2,35 |      |          |      |          |      |      |      |          |      | N      | 34,0 | 1,34 | P | 30,0 | 1,18 |   |      |      | 0,14 | 0,06  |
| 3/8"         | F VD38 L12       | Female    | 809508018 | 10   | 2        | M18X1.5 | M28X2          | G    | 95,0   | 3,74 | F      | 62,3 | 2,45 | L    | 11,0     | 0,43 | B        | 22,0 | 0,87 | K    | 12,0     | 0,47 | M      | 27,8 | 1,09 | Q | 24,0 | 0,94 | H | 24,0 | 0,94 | 0,14 | 0,06  |
|              | M VD38 L12       | Male      | 809508019 |      |          |         |                |      |        |      | D      | 59,5 | 2,35 |      |          |      |          |      |      |      |          |      | N      | 34,0 | 1,34 | P | 30,0 | 1,18 |   |      |      | 0,14 | 0,06  |
| 1/2"         | F VD12 L8        | Female    | 809508002 | 12,5 | 3        | M14X1.5 | M36X2          | G    | 100,6  | 3,96 | F      | 67,0 | 2,64 | L    | 10,0     | 0,39 | B        | 30,0 | 1,18 | K    | 8,0      | 0,31 | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,26 | 0,12  |
|              | M VD12 L8        | Male      | 809508003 |      |          |         |                |      |        |      | D      | 61,3 | 2,41 |      |          |      |          |      |      |      |          |      | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      |      | 0,21 | 0,10  |
| 1/2"         | F VD12 L10       | Female    | 809508006 | 12,5 | 3        | M16X1.5 | M36X2          | G    | 102,6  | 4,04 | F      | 68,0 | 2,68 | L    | 11,0     | 0,43 | B        | 30,0 | 1,18 | K    | 10,0     | 0,39 | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,30 | 0,13  |
|              | M VD12 L10       | Male      | 809508007 |      |          |         |                |      |        |      | D      | 62,3 | 2,45 |      |          |      |          |      |      |      |          |      | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      |      | 0,21 | 0,10  |
| 1/2"         | F VD12 L12       | Female    | 809508000 | 12,5 | 3        | M18X1.5 | M36X2          | G    | 102,6  | 4,04 | F      | 68,0 | 2,68 | L    | 11,0     | 0,43 | B        | 30,0 | 1,18 | K    | 12,0     | 0,47 | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,26 | 0,12  |
|              | M VD12 L12       | Male      | 809508001 |      |          |         |                |      |        |      | D      | 62,3 | 2,45 |      |          |      |          |      |      |      |          |      | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      |      | 0,21 | 0,10  |
| 1/2"         | F VD12 L15       | Female    | 809508004 | 12,5 | 3        | M22X1.5 | M36X2          | G    | 104,6  | 4,12 | F      | 69,0 | 2,72 | L    | 12,0     | 0,47 | B        | 30,0 | 1,18 | K    | 15,0     | 0,59 | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,26 | 0,12  |
|              | M VD12 L15       | Male      | 809508005 |      |          |         |                |      |        |      | D      | 63,3 | 2,49 |      |          |      |          |      |      |      |          |      | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      |      | 0,21 | 0,10  |
| 1/2"         | F VD12 L18       | Female    | 809508008 | 12,5 | 3        | M26X1.5 | M36X2          | G    | 104,6  | 4,12 | F      | 69,0 | 2,72 | L    | 12,0     | 0,47 | B        | 30,0 | 1,18 | K    | 18,0     | 0,71 | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,27 | 0,12  |
|              | M VD12 L18       | Male      | 809508009 |      |          |         |                |      |        |      | D      | 63,3 | 2,49 |      |          |      |          |      |      |      |          |      | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      |      | 0,22 | 0,10  |
| 3/4"         | F VD34 L12       | Female    | 809508022 | 20   | 4        | M18X1.5 | M42X2          | G    | 116,5  | 4,59 | F      | 78,9 | 3,11 | L    | 11,0     | 0,43 | B        | 36,0 | 1,42 | K    | 12,0     | 0,47 | M      | 41,8 | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,40 | 0,18  |
|              | M VD34 L12       | Male      | 809508023 |      |          |         |                |      |        |      | D      | 69,4 | 2,74 |      |          |      |          |      |      |      |          |      | N      | 49,5 | 1,95 | P | 46,0 | 1,61 |   |      |      | 0,34 | 0,15  |
| 3/4"         | F VD34 L15       | Female    | 809508024 | 20   | 4        | M22X1.5 | M42X2          | G    | 118,5  | 4,67 | F      | 79,9 | 3,15 | L    | 12,0     | 0,47 | B        | 36,0 | 1,42 | K    | 15,2     | 0,60 | M      | 41,8 | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,40 | 0,18  |
|              | M VD34 L15       | Male      | 809508025 |      |          |         |                |      |        |      | D      | 70,4 | 2,78 |      |          |      |          |      |      |      |          |      | N      | 49,5 | 1,95 | P | 46,0 | 1,61 |   |      |      | 0,34 | 0,15  |
| 3/4"         | F VD34 L18       | Female    | 809508026 | 20   | 4        | M26X1.5 | M42X2          | G    | 120,5  | 4,74 | F      | 80,9 | 3,19 | L    | 12,0     | 0,47 | B        | 36,0 | 1,42 | K    | 18,2     | 0,72 | M      | 41,8 | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,41 | 0,18  |
|              | M VD34 L18       | Male      | 809508027 |      |          |         |                |      |        |      | D      | 71,4 | 2,81 |      |          |      |          |      |      |      |          |      | N      | 49,4 | 1,89 | P | 46,0 | 1,61 |   |      |      | 0,34 | 0,15  |
| 3/4"         | F VD34 L22       | Female    | 809508028 | 20   | 4        | M30X2   | M42X2          | G    | 122,5  | 4,82 | F      | 81,9 | 3,23 | L    | 14,0     | 0,55 | B        | 36,0 | 1,42 | K    | 22,0     | 0,87 | M      | 41,8 | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,41 | 0,18  |
|              | M VD34 L22       | Male      | 809508029 |      |          |         |                |      |        |      | D      | 72,4 | 2,85 |      |          |      |          |      |      |      |          |      | N      | 49,5 | 1,95 | P | 46,0 | 1,61 |   |      |      | 0,34 | 0,15  |
| 1"           | F VD100 L18      | Female    | 809508030 | 25   | 6        | M26X1.5 | Rd 48X3 SP*    | G    | 138,7  | 5,46 | F      | 95,0 | 3,74 | L    | 12,0     | 0,47 | B        | 41,0 | 1,61 | K    | 18,0     | 0,71 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,70 | 0,32  |
|              | M VD100 L18      | Male      | 809508031 |      |          |         |                |      |        |      | D      | 78,5 | 3,09 |      |          |      |          |      |      |      |          |      | N      | 60,0 | 2,36 | P | 55,0 | 2,16 |   |      |      | 0,59 | 0,27  |
| 1"           | F VD100 L22      | Female    | 809508032 | 25   | 6        | M30X2   | Rd 48X3 SP*    | G    | 142,7  | 5,62 | F      | 97,0 | 3,82 | L    | 14,0     | 0,55 | B        | 41,0 | 1,61 | K    | 22,2     | 0,87 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,70 | 0,32  |
|              | M VD100 L22      | Male      | 809508033 |      |          |         |                |      |        |      | D      | 80,5 | 3,17 |      |          |      |          |      |      |      |          |      | N      | 60,0 | 2,36 | P | 55,0 | 2,16 |   |      |      | 0,60 | 0,27  |
| 1"           | F VD100 L28      | Female    | 809508034 | 25   | 6        | M36X2   | Rd 48X3 SP*    | G    | 142,7  | 5,62 | F      | 97,0 | 3,82 | L    | 14,0     | 0,55 | B        | 41,0 | 1,61 | K    | 28,2     | 1,11 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,70 | 0,32  |
|              | M VD100 L28      | Male      | 809508035 |      |          |         |                |      |        |      | D      | 80,5 | 3,17 |      |          |      |          |      |      |      |          |      | N      | 60,0 | 2,36 | P | 55,0 | 2,16 |   |      |      | 0,60 | 0,27  |
| 1"           | F VD100 L35      | Female    | 809508036 | 25   | 6        | M45X2   | Rd 48X3 SP*    | G    | 146,7  | 5,78 | F      | 99,0 | 3,90 | L    | 16,0     | 0,63 | B        | 46,0 | 1,81 | K    | 35,3     | 1,39 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 50,0 | 1,97 | 0,78 | 0,35  |
|              | M VD100 L35      | Male      | 809508037 |      |          |         |                |      |        |      | D      | 82,5 | 3,25 |      |          |      |          |      |      |      |          |      | N      | 60,0 | 2,36 | P | 55,0 | 2,16 |   |      |      | 0,68 | 0,31  |

\* SP = SPECIAL THREAD

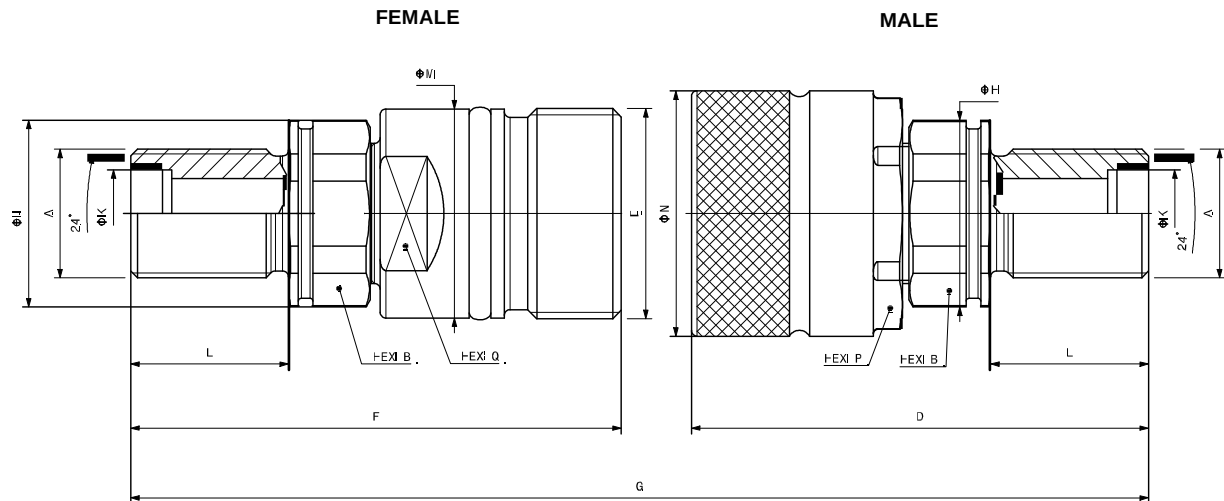
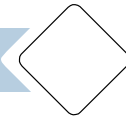


## Port description: MALE THREAD METRIC S – 24° CONE (ISO 8434-1 & DIN 2353)

| BODY SIZE | Descriptive Code | Item Code        | ISO DN | BG | PORT (A) | E       | Overall Length |       | Length |      | Length |      | Hex |      | Diameter |      | Diameter |      | Hex |      | Diameter |      | Weight   |            |   |      |      |   |      |      |      |      |
|-----------|------------------|------------------|--------|----|----------|---------|----------------|-------|--------|------|--------|------|-----|------|----------|------|----------|------|-----|------|----------|------|----------|------------|---|------|------|---|------|------|------|------|
|           |                  |                  |        |    |          |         | mm             | inch  | mm     | inch | mm     | inch | mm  | inch | mm       | inch | mm       | inch | mm  | inch | mm       | inch | Kg       | Lbs        |   |      |      |   |      |      |      |      |
| 3/8"      | F VD38 S8        | Female -         | 10     | 2  | M16X1.5  | M28X2   | G              | -     | -      | F    | -      | -    | L   | 12,0 | 0,47     | B    | 22,0     | 0,87 | K   | 8,0  | 0,31     | M    | -        | -          | Q | -    | -    | H | 24,0 | 0,94 | -    | -    |
|           | M VD38 S8        | Male 809509013   | 10     | 2  | M16X1.5  | M28X2   | G              | -     | -      | D    | 60,5   | 2,38 | L   | 12,0 | 0,47     | B    | 22,0     | 0,87 | K   | 8,0  | 0,31     | N    | 34,0     | 1,34       | P | 30,0 | 1,18 | H | 24,0 | 0,94 | 0,14 | 0,31 |
| 3/8"      | F VD38 S10       | Female 809509008 | 10     | 3  | M18X1.5  | M28X2   | G              | 97,0  | 3,82   | F    | 63,3   | 2,49 | L   | 12,0 | 0,47     | B    | 22,0     | 0,87 | K   | 10,0 | 0,39     | M    | 27,8     | 1,09       | Q | 24,0 | 0,94 | H | 24,0 | 0,94 | 0,14 | 0,31 |
|           | M VD38 S10       | Male 809509009   | 10     | 3  | M18X1.5  | M28X2   | G              | 97,0  | 3,82   | D    | 60,5   | 2,38 | L   | 12,0 | 0,47     | B    | 22,0     | 0,87 | K   | 10,0 | 0,39     | N    | 34,0     | 1,34       | P | 30,0 | 1,18 | H | 24,0 | 0,94 | 0,14 | 0,31 |
| 1/2"      | F VD12 S10       | Female 809509000 | 12,5   | 3  | M18X1.5  | M36X2   | G              | 104,6 | 4,12   | F    | 69,0   | 2,72 | L   | 12,0 | 0,47     | B    | 30,0     | 1,18 | K   | 10,0 | 0,39     | M    | 35,8     | 1,41       | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,26 | 0,58 |
|           | M VD12 S10       | Male 809509001   | 12,5   | 3  | M18X1.5  | M36X2   | G              | 104,6 | 4,12   | D    | 63,3   | 2,49 | L   | 12,0 | 0,47     | B    | 30,0     | 1,18 | K   | 10,0 | 0,39     | N    | 42,0     | 1,65       | P | 36,0 | 1,42 | H | 32,0 | 1,26 | 0,22 | 0,47 |
| 1/2"      | F VD12 S12       | Female 809509002 | 12,5   | 3  | M20X1.5  | M36X2   | G              | 103,6 | 4,08   | F    | 69,0   | 2,72 | L   | 12,0 | 0,47     | B    | 30,0     | 1,18 | K   | 12,0 | 0,47     | M    | 35,8     | 1,41       | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,26 | 0,58 |
|           | M VD12 S12       | Male 809509003   | 12,5   | 3  | M20X1.5  | M36X2   | G              | 103,6 | 4,08   | D    | 63,3   | 2,49 | L   | 12,0 | 0,47     | B    | 30,0     | 1,18 | K   | 12,0 | 0,47     | N    | 42,0     | 1,65       | P | 36,0 | 1,42 | H | 32,0 | 1,26 | 0,21 | 0,47 |
| 1/2"      | F VD12 S14       | Female 809509004 | 12,5   | 3  | M22X1.5  | M36X2   | G              | -     | -      | F    | 71,0   | 2,80 | L   | 14,0 | 0,55     | B    | 30,0     | 1,18 | K   | 14,0 | 0,55     | M    | 35,8     | 1,41       | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,26 | 0,58 |
|           | M VD12 S14       | Male 809509005   | 12,5   | 3  | M22X1.5  | M36X2   | G              | -     | -      | D    | 65,3   | 2,57 | L   | 14,0 | 0,55     | B    | 30,0     | 1,18 | K   | 14,0 | 0,55     | N    | 42,0     | 1,65       | P | 36,0 | 1,42 | H | 32,0 | 1,26 | 0,22 | 0,47 |
| 1/2"      | F VD12 S16       | Female 809509006 | 12,5   | 3  | M24X1.5  | M36X2   | G              | 108,6 | 4,28   | F    | 71,0   | 2,80 | L   | 14,0 | 0,55     | B    | 30,0     | 1,18 | K   | 16,0 | 0,63     | M    | 35,8     | 1,41       | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,30 | 0,66 |
|           | M VD12 S16       | Male 809509007   | 12,5   | 3  | M24X1.5  | M36X2   | G              | 108,6 | 4,28   | D    | 65,3   | 2,57 | L   | 14,0 | 0,55     | B    | 30,0     | 1,18 | K   | 16,0 | 0,63     | N    | 42,0     | 1,65       | P | 36,0 | 1,42 | H | 32,0 | 1,26 | 0,26 | 0,57 |
| 3/4"      | F VD34 S16       | Female 809509014 | 20     | 4  | M24X1.5  | M42X2   | G              | 122,5 | 4,82   | F    | 81,9   | 3,22 | L   | 14,0 | 0,55     | B    | 36,0     | 1,42 | K   | 16,0 | 0,63     | M    | 41,8     | 1,65       | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,41 | 0,89 |
|           | M VD34 S16       | Male 809509015   | 20     | 4  | M24X1.5  | M42X2   | G              | 122,5 | 4,82   | D    | 72,4   | 2,85 | L   | 14,0 | 0,55     | B    | 36,0     | 1,42 | K   | 16,0 | 0,63     | N    | 48,0     | 1,89       | P | 46,0 | 1,81 | H | 40,0 | 1,57 | 0,34 | 0,75 |
| 3/4"      | F VD34 S20       | Female 809509016 | 20     | 4  | M30X2    | M42X2   | G              | 126,5 | 4,98   | F    | 83,9   | 3,30 | L   | 16,0 | 0,63     | B    | 36,0     | 1,42 | K   | 20,0 | 0,79     | M    | 41,8     | 1,65       | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,41 | 0,90 |
|           | M VD34 S20       | Male 809509017   | 20     | 4  | M30X2    | M42X2   | G              | 126,5 | 4,98   | D    | 74,4   | 2,92 | L   | 16,0 | 0,63     | B    | 36,0     | 1,42 | K   | 20,0 | 0,79     | N    | 48,0     | 1,89       | P | 46,0 | 1,81 | H | 40,0 | 1,57 | 0,34 | 0,75 |
| 1"        | F VD100 S20      | Female 809509018 | 25     | 6  | M30X2    | 48X3 SP | G              | -     | -      | F    | 99,0   | 3,90 | L   | 16,0 | 0,63     | B    | 41,0     | 1,61 | K   | 20,2 | 0,80     | M    | 47,8     | 1,88       | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,72 | 1,58 |
|           | M VD100 S20      | Male 809509019   | 25     | 6  | M30X2    | 48X3 SP | G              | -     | -      | D    | 82,5   | 3,25 | L   | 16,0 | 0,63     | B    | 41,0     | 1,61 | K   | 20,2 | 0,80     | N    | 60,0     | 2,36       | P | 55,0 | 2,16 | H | 45,0 | 1,77 | 0,61 | 1,34 |
| 1"        | F VD100 S25      | Female 809509020 | 25     | 6  | M36X2    | 48X3 SP | G              | 150,7 | 5,93   | F    | 101,0  | 3,98 | L   | 18,0 | 0,71     | B    | 41,0     | 1,61 | K   | 25,2 | 0,99     | M    | 47,8     | 1,88       | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,74 | 1,62 |
|           | M VD100 S25      | Male 809509021   | 25     | 6  | M36X2    | 48X3 SP | G              | 150,7 | 5,93   | D    | 84,5   | 3,33 | L   | 18,0 | 0,71     | B    | 41,0     | 1,61 | K   | 25,2 | 0,99     | N    | 60,0     | 2,36       | P | 55,0 | 2,16 | H | 45,0 | 1,77 | 0,63 | 1,39 |
| 1"        | F VD100 S30      | Female 809509022 | 25     | 6  | M42X2    | 48X3 SP | G              | 154,7 | 6,09   | F    | 103,0  | 4,06 | L   | 20,0 | 0,79     | B    | 46,0     | 1,81 | K   | 30,2 | 1,19     | M    | 47,8     | 1,88       | Q | 41,0 | 1,61 | H | 50,0 | 1,97 | 0,81 | 1,79 |
|           | M VD100 S30      | Male 809509023   | 25     | 6  | M42X2    | 48X3 SP | G              | 154,7 | 6,09   | D    | 86,5   | 3,41 | L   | 20,0 | 0,79     | B    | 46,0     | 1,81 | K   | 30,2 | 1,19     | N    | 60,0     | 2,17       | P | 55,0 | 2,16 | H | 50,0 | 1,97 | 0,71 | 1,57 |
| 1-1/4"    | F VD114 S30      | Female 809509026 | 31,5   | 8  | M42X2    | 70X3 SP | G              | 183,0 | 7,20   | F    | 114,2  | 4,50 | L   | 20,0 | 0,79     | B    | 55,0     | 2,17 | K   | 30,2 | 1,19     | M    | 68,5     | 2,70       | Q | 65,0 | 2,56 | H | 61,0 | 2,40 | 1,59 | 3,50 |
|           | M VD114 S30      | Male 809509027   | 31,5   | 8  | M42X2    | 70X3 SP | G              | 183,0 | 7,20   | D    | 118,0  | 4,65 | L   | 20,0 | 0,79     | B    | 55,0     | 2,17 | K   | 30,2 | 1,19     | N    | 85 CH00* | 3,35-CH15* | P | 80,0 | 3,15 | H | 61,0 | 2,40 | 2,36 | 5,19 |
| 1-1/4"    | F VD114 S38      | Female 809509028 | 31,5   | 8  | M52X2    | 70X3 SP | G              | 187,0 | 7,36   | F    | 116,2  | 4,57 | L   | 22,0 | 0,87     | B    | 55,0     | 2,17 | K   | 38,3 | 1,51     | M    | 68,5     | 2,70       | Q | 65,0 | 2,56 | H | 61,0 | 2,40 | 1,63 | 3,59 |
|           | M VD114 S38      | Male 809509029   | 31,5   | 8  | M52X2    | 70X3 SP | G              | 187,0 | 7,36   | D    | 120,0  | 4,72 | L   | 22,0 | 0,87     | B    | 55,0     | 2,17 | K   | 38,3 | 1,51     | N    | 85 CH00* | 3,35-CH15* | P | 80,0 | 3,15 | H | 61,0 | 2,40 | 2,41 | 5,31 |

\*SP = SPECIAL THREAD

\*\*HEXAGON SLEEVE

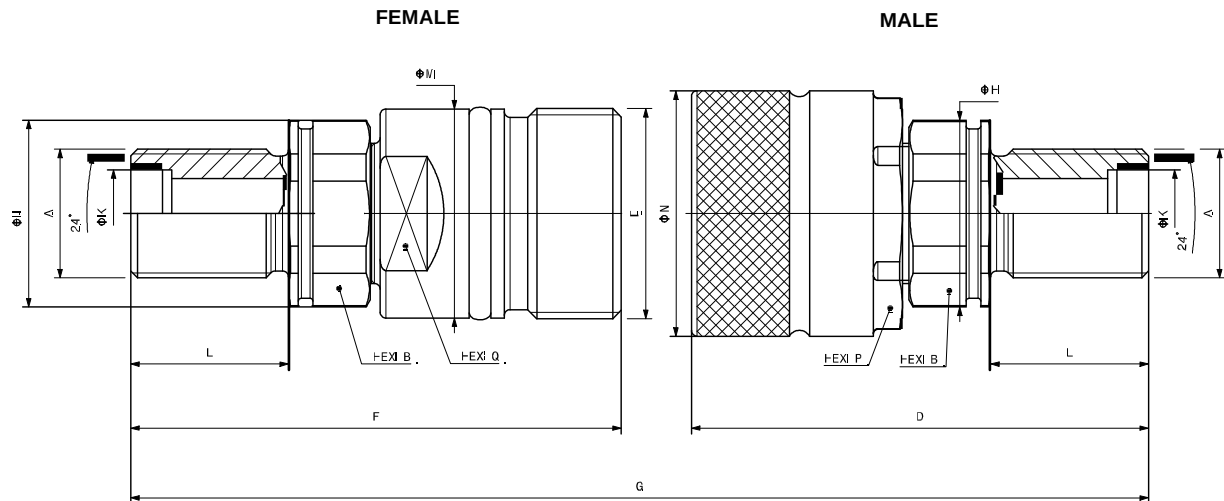
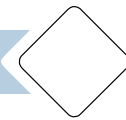


Port description: MALE THREAD METRIC L SCHOTT – 24° CONE BULKHEAD (ISO 8434-1 & DIN 2353)

| BODY<br>SIZE | Descriptive Code   | Item Code        | ISO<br>DN | BG | PORT (A) | E       | Overall Length |       | Length |      | Length |      | Hex |      | Diameter |      | Diameter |      | Hex |      | Diameter |      | Weight |      |   |      |      |   |      |      |      |      |
|--------------|--------------------|------------------|-----------|----|----------|---------|----------------|-------|--------|------|--------|------|-----|------|----------|------|----------|------|-----|------|----------|------|--------|------|---|------|------|---|------|------|------|------|
|              |                    |                  |           |    |          |         | mm             | inch  | mm     | inch | mm     | inch | mm  | inch | mm       | inch | mm       | inch | mm  | inch | mm       | inch | Kg     | Lbs  |   |      |      |   |      |      |      |      |
| 1/4"         | F VD14 L8 SCHOTT   | Female 809510012 | 6,3       | 1  | M14X1.5  | M24X2   | G              | -     | -      | F    | 74,7   | 2,94 | L   | 25,0 | 0,98     | B    | 19,0     | 0,75 | K   | 8,0  | 0,31     | M    | 23,8   | 0,94 | Q | 22,0 | 0,87 | H | 21,0 | 0,83 | 0,10 | 0,23 |
|              | M VD14 L8 SCHOTT   | Male -           |           |    |          |         |                |       |        | D    | -      | -    |     |      |          |      |          |      |     |      |          | N    | -      | -    | P | -    | -    |   |      |      |      |      |
| 3/8"         | F VD38 L SCHOTT    | Female 809510014 | 10        | 2  | M14X1.5  | M28X2   | G              | -     | -      | F    | 76,3   | 3,00 | L   | 25,0 | 0,98     | B    | 22,0     | 0,87 | K   | 8,0  | 0,31     | M    | 27,8   | 1,09 | Q | 24,0 | 0,94 | H | 24,0 | 0,94 | 0,14 | 0,31 |
|              | M VD38 L SCHOTT    | Male 809510015   |           |    |          |         |                |       |        | D    | 73,5   | 2,89 |     |      |          |      |          |      |     |      |          | N    | 34,0   | 1,34 | P | 30,0 | 1,18 |   |      |      |      |      |
| 3/8"         | F VD38 L10 SCHOTT  | Female 809510016 | 10        | 2  | M16X1.5  | M28X2   | G              | 125,0 | 4,92   | F    | 77,3   | 3,04 | L   | 26,0 | 1,02     | B    | 22,0     | 0,87 | K   | 10,0 | 0,39     | M    | 27,8   | 1,09 | Q | 24,0 | 0,94 | H | 24,0 | 0,94 | 0,17 | 0,37 |
|              | M VD38 L10 SCHOTT  | Male 809510017   |           |    |          |         |                |       |        | D    | 74,5   | 2,93 |     |      |          |      |          |      |     |      |          | N    | 34,0   | 1,34 | P | 30,0 | 1,18 |   |      |      |      |      |
| 1/2"         | F VD12 L10 SCHOTT  | Female 809510006 | 12,5      | 3  | M16X1.5  | M36X2   | G              | 132,6 | 5,22   | F    | 83,0   | 3,27 | L   | 26,0 | 1,02     | B    | 30,0     | 1,18 | K   | 10,0 | 0,39     | M    | 35,8   | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,32 | 0,69 |
|              | M VD12 L10 SCHOTT  | Male 809510007   |           |    |          |         |                |       |        | D    | 77,3   | 3,04 |     |      |          |      |          |      |     |      |          | N    | 42,0   | 1,65 | P | 36,0 | 1,42 |   |      |      |      |      |
| 1/2"         | F VD12 L12 SCHOTT  | Female 809510000 | 12,5      | 3  | M18X1.5  | M36X2   | G              | 140,6 | 5,54   | F    | 87,0   | 3,43 | L   | 30,0 | 1,18     | B    | 30,0     | 1,18 | K   | 12,0 | 0,47     | M    | 35,8   | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,27 | 0,58 |
|              | M VD12 L12 SCHOTT  | Male 809510001   |           |    |          |         |                |       |        | D    | 81,3   | 3,20 |     |      |          |      |          |      |     |      |          | N    | 42,0   | 1,65 | P | 36,0 | 1,42 |   |      |      |      |      |
| 1/2"         | F VD12 L15 SCHOTT  | Female 809510004 | 12,5      | 3  | M22X1.5  | M36X2   | G              | 134,6 | 5,30   | F    | 84,0   | 3,31 | L   | 27,0 | 1,06     | B    | 30,0     | 1,18 | K   | 15,0 | 0,59     | M    | 35,8   | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,27 | 0,59 |
|              | M VD12 L15 SCHOTT  | Male 809510005   |           |    |          |         |                |       |        | D    | 78,3   | 3,08 |     |      |          |      |          |      |     |      |          | N    | 42,0   | 1,65 | P | 36,0 | 1,42 |   |      |      |      |      |
| 1/2"         | F VD12 L18 SCHOTT  | Female 809510008 | 12,5      | 3  | M26X1.5  | M36X2   | G              | 134,6 | 5,30   | F    | 84,0   | 3,31 | L   | 27,0 | 1,06     | B    | 30,0     | 1,18 | K   | 18,0 | 0,71     | M    | 35,8   | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,27 | 0,60 |
|              | M VD12 L18 SCHOTT  | Male 809510009   |           |    |          |         |                |       |        | D    | 78,3   | 3,08 |     |      |          |      |          |      |     |      |          | N    | 42,0   | 1,65 | P | 36,0 | 1,42 |   |      |      |      |      |
| 3/4"         | F VD34 L15 SCHOTT  | Female 809510024 | 20        | 4  | M22X1.5  | M42X2   | G              | 148,5 | 5,85   | F    | 94,9   | 3,74 | L   | 27,0 | 1,06     | B    | 36,0     | 1,42 | K   | 15,2 | 0,60     | M    | 41,8   | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,41 | 0,90 |
|              | M VD34 L15 SCHOTT  | Male 809510025   |           |    |          |         |                |       |        | D    | 85,4   | 3,36 |     |      |          |      |          |      |     |      |          | N    | 49,5   | 1,95 | P | 46,0 | 1,81 |   |      |      |      |      |
| 3/4"         | F VD34 L18 SCHOTT  | Female 809510026 | 20        | 4  | M26X1.5  | M42X2   | G              | 150,5 | 5,93   | F    | 95,9   | 3,77 | L   | 27,0 | 1,06     | B    | 36,0     | 1,42 | K   | 18,0 | 0,71     | M    | 41,8   | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,41 | 0,91 |
|              | M VD34 L18 SCHOTT  | Male 809510027   |           |    |          |         |                |       |        | D    | 86,4   | 3,40 |     |      |          |      |          |      |     |      |          | N    | 49,5   | 1,95 | P | 46,0 | 1,81 |   |      |      |      |      |
| 3/4"         | F VD34 L22 SCHOTT  | Female 809510028 | 20        | 4  | M30X2    | M42X2   | G              | -     | -      | F    | 103,9  | 4,09 | L   | 36,0 | 1,42     | B    | 36,0     | 1,42 | K   | 22,0 | 0,87     | M    | 41,8   | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,42 | 0,91 |
|              | M VD34 L22 SCHOTT  | Male 809510029   |           |    |          |         |                |       |        | D    | 94,4   | 3,72 |     |      |          |      |          |      |     |      |          | N    | 49,5   | 1,95 | P | 46,0 | 1,81 |   |      |      |      |      |
| 1"           | F VD100 L18 SCHOTT | Female 809510030 | 25        | 6  | M26X1.5  | 48X3 SP | G              | 178,7 | 7,04   | F    | 115,0  | 4,53 | L   | 32,0 | 1,26     | B    | 41,0     | 1,61 | K   | 18,0 | 0,71     | M    | 47,8   | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,74 | 1,63 |
|              | M VD100 L18 SCHOTT | Male 809510031   |           |    |          |         |                |       |        | D    | 98,5   | 3,88 |     |      |          |      |          |      |     |      |          | N    | 60,0   | 2,36 | P | 55,0 | 2,16 |   |      |      |      |      |
| 1"           | F VD100 L22 SCHOTT | Female 809510032 | 25        | 6  | M30X2    | 48X3 SP | G              | 182,7 | 7,19   | F    | 117,0  | 4,61 | L   | 34,0 | 1,34     | B    | 41,0     | 1,61 | K   | 22,2 | 0,87     | M    | 47,8   | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,76 | 1,66 |
|              | M VD100 L22 SCHOTT | Male 809510033   |           |    |          |         |                |       |        | D    | 100,5  | 3,96 |     |      |          |      |          |      |     |      |          | N    | 60,0   | 2,36 | P | 55,0 | 2,16 |   |      |      |      |      |
| 1"           | F VD100 L28 SCHOTT | Female 809510034 | 25        | 6  | M36X2    | 48X3 SP | G              | 182,7 | 7,19   | F    | 117,0  | 4,61 | L   | 34,0 | 1,34     | B    | 41,0     | 1,61 | K   | 28,2 | 1,11     | M    | 47,8   | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,78 | 1,71 |
|              | M VD100 L28 SCHOTT | Male 809510035   |           |    |          |         |                |       |        | D    | 100,5  | 3,96 |     |      |          |      |          |      |     |      |          | N    | 60,0   | 2,36 | P | 55,0 | 2,16 |   |      |      |      |      |

\*SP = SPECIAL THREAD





## Port description: MALE THREAD METRIC S SCHOTT – 24° CONE BULKHEAD (ISO 8434-1 & DIN 8353)

| BODY<br>SIZE | Descriptive Code   | Item Code | ISO<br>DN | BG   | PORT (A) | E       | Overall Length |      | Length |      | Diameter |       | Wrench Flat |      | Diameter |      | Diameter |      | Hex  |      | Diameter |      | Weight |      |      |   |      |      |   |      |      |      |      |
|--------------|--------------------|-----------|-----------|------|----------|---------|----------------|------|--------|------|----------|-------|-------------|------|----------|------|----------|------|------|------|----------|------|--------|------|------|---|------|------|---|------|------|------|------|
|              |                    |           |           |      |          |         | mm             | inch | mm     | inch | mm       | inch  | mm          | inch | mm       | inch | mm       | inch | mm   | inch | mm       | inch | Kg     | Lbs  |      |   |      |      |   |      |      |      |      |
| 3/8"         | F VD38 S12 SCHOTT  | Female    | 809511010 | 10   | 2        | M20X1.5 | M28X2          | G    | -      | -    | F        | 78,3  | 3,08        | L    | 27       | 1,06 | B        | 22,0 | 0,87 | K    | 12,0     | 0,47 | M      | -    | -    | Q | -    | -    | H | 24,0 | 0,94 | 0,15 | 0,32 |
|              | M VD38 S12 SCHOTT  | Male      | 809511011 |      |          |         |                |      |        |      | D        | 75,5  | 2,97        |      |          |      |          |      |      |      |          |      | N      | 34,0 | 1,34 | P | 30,0 | 1,18 |   |      | 0,32 | 0,71 |      |
| 1/2"         | F VD12 S10 SCHOTT  | Female    | 809511000 | 12,5 | 3        | M18X1.5 | M36X2          | G    | 134,6  | 5,30 | F        | 84,0  | 3,31        | L    | 27       | 1,06 | B        | 30,0 | 1,18 | K    | 10,0     | 0,39 | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,27 | 0,59 |
|              | M VD12 S10 SCH OTT | Male      | 809511001 |      |          |         |                |      |        |      | D        | 78,3  | 3,08        |      |          |      |          |      |      |      |          |      | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      | 0,59 | 1,30 |      |
| 1/2"         | F VD12 S12 SCHOTT  | Female    | 809511002 | 12,5 | 3        | M20X1.5 | M36X2          | G    | 134,6  | 5,30 | F        | 84,0  | 3,31        | L    | 27       | 1,06 | B        | 30,0 | 1,18 | K    | 12,0     | 0,47 | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,27 | 0,59 |
|              | M VD12 S12 SCHOTT  | Male      | 809511003 |      |          |         |                |      |        |      | D        | 78,3  | 3,08        |      |          |      |          |      |      |      |          |      | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      | 0,59 | 1,30 |      |
| 1/2"         | F VD12 S16 SCHOTT  | Female    | 809511006 | 12,5 | 3        | M24X1.5 | M36X2          | G    | 138,6  | 5,46 | F        | 86,0  | 3,39        |      |          |      |          |      |      |      |          |      | M      | 35,8 | 1,41 | Q | 30,0 | 1,18 | H | 32,0 | 1,26 | 0,27 | 0,60 |
|              | M VD12 S16 SCHOTT  | Male      | 809511007 |      |          |         |                |      |        |      | D        | 80,3  | 3,16        | L    | 29       | 1,14 | B        | 30,0 | 1,18 | K    | 16,0     | 0,63 | N      | 42,0 | 1,65 | P | 36,0 | 1,42 |   |      | 0,60 | 1,31 |      |
| 3/4"         | F VD34 S16 SCHOTT  | Female    | 809511014 | 20   | 4        | M24X1.5 | M42X2          | G    | -      | -    | F        | 96,9  | 3,81        |      |          |      |          |      |      |      |          |      | M      | 41,8 | 1,65 | Q | 36,0 | 1,42 |   |      | 0,41 | 0,90 |      |
|              | M VD34 S16 SCHOTT  | Male      | -         |      |          |         |                |      |        |      | D        | -     | -           | L    | 29       | 1,14 | B        | 36,0 | 1,42 | K    | 16,2     | 0,64 | N      | -    | -    | P | -    | -    | H | 40,0 | 1,57 | 0,90 | 1,99 |
| 3/4"         | F VD34 S20 SCHOTT  | Female    | 809511016 | 20   | 4        | M30X2   | M42X2          | G    | 166,5  | 6,56 | F        | 103,9 | 4,09        | L    | 36       | 1,42 | B        | 36,0 | 1,42 | K    | 20,0     | 0,79 | M      | 41,8 | 1,65 | Q | 36,0 | 1,42 | H | 40,0 | 1,57 | 0,42 | 0,92 |
|              | M VD34 S20 SCH OTT | Male      | 809511017 |      |          |         |                |      |        |      | D        | 94,4  | 3,72        |      |          |      |          |      |      |      |          |      | N      | 49,5 | 1,90 | P | 46,0 | 1,81 |   |      | 0,92 | 2,03 |      |
| 1"           | F VD100 S20 SCHOTT | Female    | 809511018 | 25   | 6        | M30X2   | 48X3 SP*       | G    | 190,7  | 7,51 | F        | 121,0 | 4,76        | L    | 38       | 1,50 | B        | 41,0 | 1,61 | K    | 20,2     | 0,80 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,69 | 1,51 |
|              | M VD100 S20 SCHOTT | Male      | 809511019 |      |          |         |                |      |        |      | D        | 104,5 | 4,11        |      |          |      |          |      |      |      |          |      | N      | 60,0 | 2,36 | P | 55,0 | 2,16 |   |      | 1,51 | 3,33 |      |
| 1"           | F VD100 S25 SCHOTT | Female    | 809511020 | 25   | 6        | M36X2   | 48X3 SP*       | G    | 190,7  | 7,51 | F        | 121,0 | 4,76        | L    | 38       | 1,50 | B        | 41,0 | 1,61 | K    | 25,2     | 0,99 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 45,0 | 1,77 | 0,83 | 1,83 |
|              | M VD100 S25 SCHOTT | Male      | 809511021 |      |          |         |                |      |        |      | D        | 104,5 | 4,11        |      |          |      |          |      |      |      |          |      | N      | 60,0 | 2,36 | P | 55,0 | 2,16 |   |      | 1,83 | 4,03 |      |
| 1"           | F VD100 S30 SCHOTT | Female    | 809511022 | 25   | 6        | M42X2   | 48X3 SP*       | G    | 194,7  | 7,67 | F        | 123,0 | 4,84        | L    | 40       | 1,57 | B        | 46,0 | 1,81 | K    | 30,2     | 1,19 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 50,0 | 1,97 | 0,94 | 2,06 |
|              | M VD100 S30 SCHOTT | Male      | 809511023 |      |          |         |                |      |        |      | D        | 106,5 | 4,19        |      |          |      |          |      |      |      |          |      | N      | 60,0 | 2,36 | P | 55,0 | 2,16 |   |      | 2,06 | 4,54 |      |
| 1"           | F VD100 S38 SCHOTT | Female    | 809511024 | 25   | 6        | M52X2   | 48X3 SP*       | G    | -      | -    | F        | 123,0 | 4,84        | L    | 40       | 1,57 | B        | 55,0 | 2,17 | K    | 38,3     | 1,51 | M      | 47,8 | 1,88 | Q | 41,0 | 1,61 | H | 60,0 | 2,36 | 1,16 | 2,55 |
|              | M VD100 S38 SCHOTT | Male      | -         |      |          |         |                |      |        |      | D        | -     | -           | L    | 40       | 1,57 | B        | 55,0 | 2,17 | K    | 38,3     | 1,51 | N      | -    | -    | P | -    | -    | H | 60,0 | 2,36 | 2,55 | 5,61 |

\*SP = SPECIAL THREAD

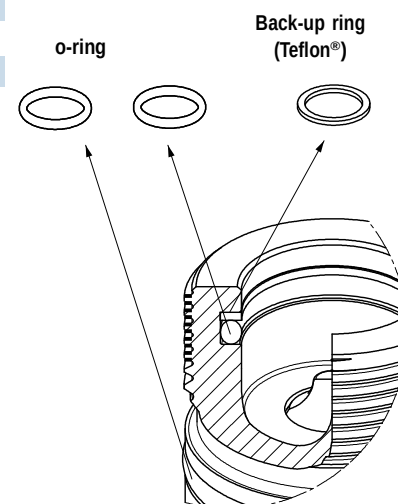




## SPARE KIT SEAL FOR FEMALE

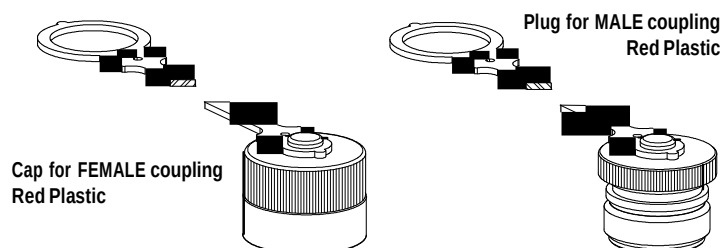
| Repair kit / OR+BK |             |             |
|--------------------|-------------|-------------|
| Body Size          | Description | Part Number |
| 1/4"               | FVD14       | 815700900   |
| 3/8"               | FVD38       | 815701151   |
| 1/2"               | FVD12       | 815700904   |
| 3/4"               | FVD34       | 815700906   |
| 1"                 | FVD100      | 815700908   |
| 1-1/4"             | FVD114      | 815700910   |

O-Ring in NBR  
BackUp in Teflon®



## PROTECTIVE CAPS FOR VD SERIES

Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. This is particularly important in mobile applications where exposure to weather and aggregate materials are common. The protective caps for VD couplings are manufactured in plastic with connection lanyard (standard color red).



| Body Size/Description |       | Protective Cap |               | Material/Color |
|-----------------------|-------|----------------|---------------|----------------|
|                       |       | Cap for Female | Plug for Male |                |
| 1/4"                  | VD14  | 814900000      | 814900001     | Plastic/Red    |
| 3/8"                  | VD38  | 814900002      | 814900003     | Plastic/Red    |
| 1/2"                  | VD12  | 814900004      | 814900005     | Plastic/Red    |
| 3/4"                  | VD34  | 814900006      | 814900007     | Plastic/Red    |
| 1"                    | VD100 | 814900016      | 814900017     | Plastic/Red    |
| 1-1/4"                | VD114 | 814900018      | 814900019     | Plastic/Red    |