



Catalog No. H-230TF  
Jan. 2018

## 24° Tube Fittings - DIN 2353 & ISO 8434 -1

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### with Ball & Non Return Valves



**HY-LOK CORPORATION**

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## General informations

### Features

- **Pressure rating** up to 500bar @ 21°C
- **Temperature rating** from -20°C to 100°C with POM and NBR standard.
- **Conforms to DIN standard**
- **Compact design** with max orifice
- **100% factory tested.**

### Application

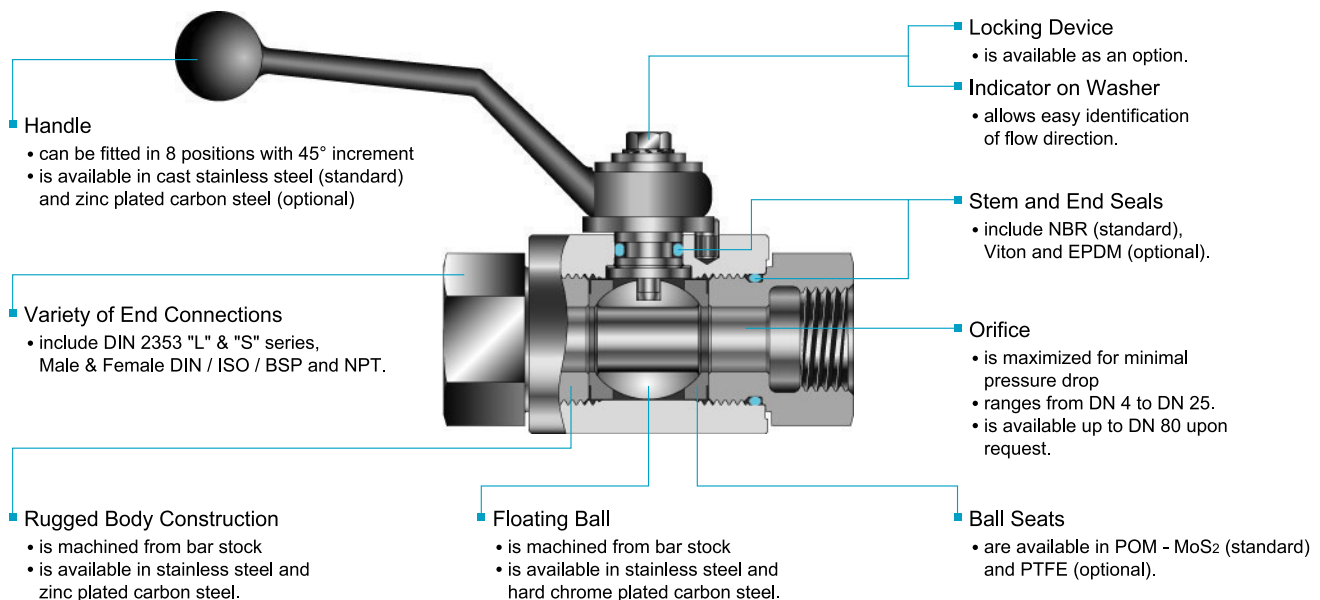
- Hydraulic fluids, compressed air, lubricants, and fuel oil systems

### Sour Gas Service

- is provided to meet NACE Standard MR - 01 - 75.

### Testing

- Each valve is tested with nitrogen @ 1000psig(69bar) to max leak rate of 0.1SCCM.
- Hydrostatic shell test is performed at 1.5 times the working pressure as an option.
- Optional tests are available upon request.



## Technical Data

### Materials of Construction

| Description       | Specification / Grade             |                   |                 |                   |
|-------------------|-----------------------------------|-------------------|-----------------|-------------------|
|                   | Valve Body Materials              |                   |                 |                   |
|                   | SS316                             |                   | Carbon Steel    |                   |
|                   | ASTM                              | DIN               | ASTM            | DIN               |
| Body              | A479 /<br>SS316                   | 17440 /<br>1.4571 | A108 /<br>12L14 | 1651 /<br>9SMn28K |
| End Connector     |                                   |                   |                 |                   |
| Stem              |                                   |                   |                 |                   |
| Ball              | 316 Stainless Steel               |                   |                 |                   |
| Ball Seats*       | POM - MoS <sub>2</sub> (Standard) |                   |                 |                   |
| Stem & End Seals* | NBR (Standard)                    |                   |                 |                   |
| Handle            | SS316                             |                   | Carbon Steel    |                   |
| Locking Device    | Stainless Steel                   |                   |                 |                   |

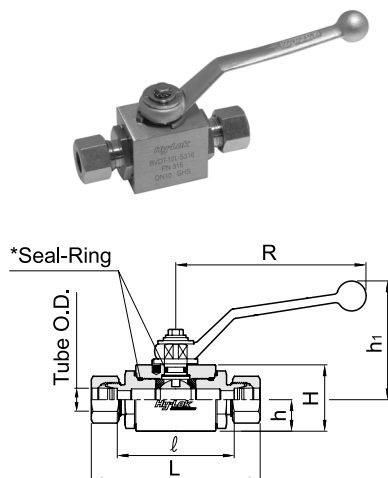
Note : "\*" marked are wetted parts. Lubricant is silicone based.

### Temperature Rating

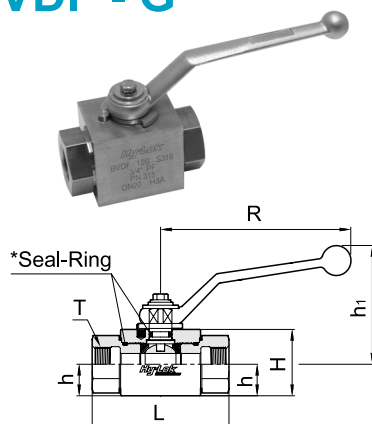
| Seals       |                    |
|-------------|--------------------|
| Materials   | Temperature Rating |
| NBR(Buna N) | -23°C to 121°C     |
| Viton       | -23°C to 200°C     |
| EPDM        | -46°C to 149°C     |

| Ball Seals             |                    |
|------------------------|--------------------|
| Materials              | Temperature Rating |
| POM - MoS <sub>2</sub> | -30°C to 100°C     |
| PTFE                   | -54°C to 65°C      |

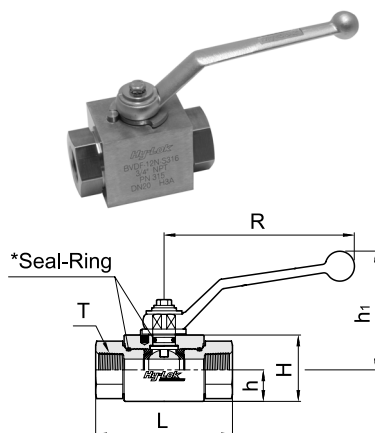
## BVDT - L/S



## BVDF - G



## BVDF - N



for Light / Heavy Series Tube.

| Series | Part No.                | Tube OD | DN <sup>(1)</sup> | B <sup>(3)</sup> | H  | h    | h <sub>1</sub> | L     | l     | R   | Weight (kg) | PN(bar) <sup>(2)</sup> |       |
|--------|-------------------------|---------|-------------------|------------------|----|------|----------------|-------|-------|-----|-------------|------------------------|-------|
|        |                         |         |                   |                  |    |      |                |       |       |     |             | C.Steel                | SS316 |
| L      | BVDT- 6L                | 6       | 4                 | 26               | 33 | 13.5 | 71             | 82.0  | 53.0  | 115 | 0.4         | 500                    | 315   |
|        | BVDT- 8L                | 8       | 6                 | 26               | 33 | 13.5 | 71             | 82.0  | 53.0  | 115 | 0.4         | 500                    | 315   |
|        | BVDT-10L                | 10      | 6                 | 26               | 33 | 13.5 | 71             | 89.0  | 60.0  | 115 | 0.5         | 500                    | 315   |
|        | BVDT-12L                | 12      | 10                | 32               | 38 | 18.0 | 72             | 89.0  | 60.0  | 115 | 0.6         | 500                    | 315   |
|        | BVDT-15L                | 15      | 13                | 35               | 40 | 19.0 | 73             | 98.0  | 68.0  | 115 | 0.7         | 500                    | 315   |
|        | BVDT-18L                | 18      | 13                | 35               | 40 | 19.0 | 73             | 99.0  | 67.0  | 115 | 0.8         | 400                    | 315   |
|        | BVDT-22L                | 22      | 20                | 49               | 57 | 24.5 | 78             | 118.3 | 86.3  | 159 | 2.1         | 400                    | 160   |
|        | BVDT-28L                | 28      | 25                | 58               | 65 | 29.5 | 81             | 138.0 | 105.0 | 159 | 2.3         | 400                    | 160   |
| S      | BVDT-35L                | 35      | 25                | 58               | 65 | 29.5 | 81             | 144.0 | 101.0 | 159 | 2.3         | 400                    | 160   |
|        | BVDT- 8S                | 8       | 4                 | 26               | 33 | 13.5 | 71             | 88.0  | 59.0  | 115 | 0.4         | 500                    | 500   |
|        | BVDT-10S                | 10      | 6                 | 26               | 33 | 13.5 | 71             | 91.0  | 59.0  | 115 | 0.4         | 500                    | 500   |
|        | BVDT-12S                | 12      | 6                 | 32               | 38 | 18.0 | 72             | 93.0  | 61.0  | 115 | 0.5         | 500                    | 500   |
|        | BVDT-14S                | 14      | 10                | 32               | 38 | 18.0 | 72             | 99.0  | 64.0  | 115 | 0.6         | 500                    | 500   |
|        | BVDT-16S                | 16      | 13                | 35               | 40 | 19.0 | 73             | 105.0 | 69.0  | 115 | 0.7         | 500                    | 400   |
|        | BVDT-20S                | 20      | 13                | 35               | 40 | 19.0 | 73             | 112.0 | 69.0  | 115 | 0.8         | 400                    | 400   |
|        | BVDT-25S                | 25      | 20                | 49               | 57 | 24.5 | 78             | 133.3 | 85.3  | 159 | 2.1         | 400                    | 315   |
|        | BVDT-30S                | 30      | 25                | 58               | 65 | 29.5 | 81             | 146.0 | 93.0  | 159 | 2.3         | 400                    | 315   |
|        | BVDT-38S-DN25           | 38      | 25                | 58               | 65 | 29.5 | 81             | 153.0 | 92.0  | 159 | 3.1         | 315                    | 315   |
|        | BVDF-38S <sup>(4)</sup> | 38      | 32                | 86               | 84 | 39.0 | 126            | 183.0 | 116.0 | 240 | 5.3         | 315                    | 315   |

for ISO/BSP Parallel

| Part No.                | T       | DN <sup>(1)</sup> | B <sup>(3)</sup> | H  | h    | h <sub>1</sub> | L     | R   | Weight (kg) | PN(bar) <sup>(2)</sup> |       |
|-------------------------|---------|-------------------|------------------|----|------|----------------|-------|-----|-------------|------------------------|-------|
|                         |         |                   |                  |    |      |                |       |     |             | C.Steel                | SS316 |
| BVDF- 2G                | G 1/8   | 6                 | 26               | 33 | 13.5 | 71             | 68.8  | 115 | 0.4         | 500                    | 500   |
| BVDF- 4G                | G 1/4   | 6                 | 26               | 33 | 13.5 | 71             | 68.8  | 115 | 0.4         | 500                    | 500   |
| BVDF- 6G                | G 3/8   | 10                | 32               | 38 | 18.0 | 72             | 71.9  | 115 | 0.6         | 500                    | 500   |
| BVDF- 8G                | G 1/2   | 13                | 35               | 40 | 19.0 | 73             | 82.3  | 115 | 0.7         | 500                    | 500   |
| BVDF-12G                | G 3/4   | 20                | 49               | 57 | 24.5 | 78             | 95.4  | 159 | 1.6         | 400                    | 315   |
| BVDF-16G                | G 1     | 25                | 58               | 65 | 29.5 | 81             | 112.7 | 159 | 2.3         | 400                    | 315   |
| BVDF-20G-DN25           | G 1 1/4 | 25                | 58               | 65 | 29.5 | 81             | 120.0 | 159 | 2.3         | 315                    | 315   |
| BVDF-20G <sup>(4)</sup> | G 1 1/4 | 32                | 86               | 84 | 39.0 | 126            | 111.0 | 240 | 4.2         | 315                    | 315   |

for NPT

| Part No.                | T               | DN <sup>(1)</sup> | B <sup>(3)</sup> | H  | h    | h <sub>1</sub> | L     | R   | Weight (kg) | PN(bar) <sup>(2)</sup> |       |
|-------------------------|-----------------|-------------------|------------------|----|------|----------------|-------|-----|-------------|------------------------|-------|
|                         |                 |                   |                  |    |      |                |       |     |             | C.Steel                | SS316 |
| BVDF- 4N                | 1/4-18 NPT      | 6                 | 26               | 33 | 13.5 | 71             | 68.8  | 115 | 0.4         | 500                    | 500   |
| BVDF- 6N                | 3/8-18 NPT      | 10                | 32               | 38 | 18.0 | 72             | 78.0  | 115 | 0.6         | 500                    | 500   |
| BVDF- 8N                | 1/2-14 NPT      | 13                | 35               | 40 | 19.0 | 73             | 104.0 | 115 | 0.7         | 500                    | 500   |
| BVDF-12N                | 3/4-14 NPT      | 20                | 49               | 57 | 24.5 | 78             | 102.0 | 159 | 1.6         | 400                    | 315   |
| BVDF-16N                | 1-11.5 NPT      | 25                | 58               | 65 | 29.5 | 81             | 119.0 | 159 | 2.3         | 400                    | 315   |
| BVDF-20N-DN25           | 1 1/4-11.5 NPT  | 25                | 58               | 65 | 29.5 | 81             | 130.0 | 159 | 2.3         | 315                    | 315   |
| BVDF-20N <sup>(4)</sup> | 1 1/4- 11.5 NPT | 32                | 86               | 84 | 39.0 | 126            | 120.4 | 240 | 4.4         | 315                    | 315   |

Note : (1) DN is the max orifice.

DN is available up to DN80 upon request.

Please consult local authorized Hy-Lok representative

(2) Safety factor of PN in bar is 1.5

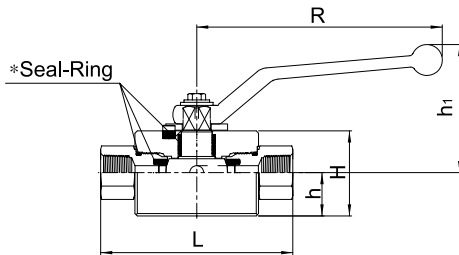
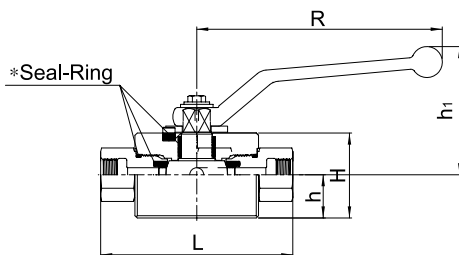
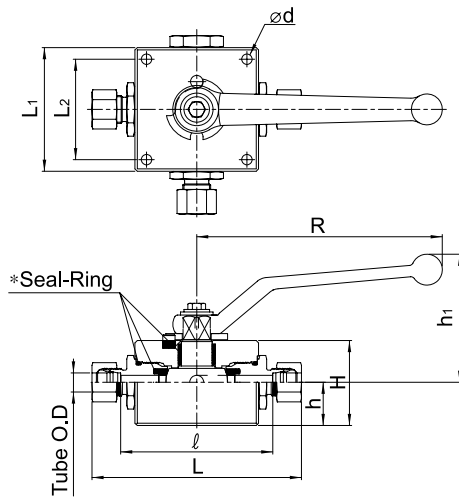
(3) "B" Dimensions are width across flat of body

(4) Round Bar Body (not Square)

Dimensions are given for approximate length with tightened nut. All dimensions are in millimeters for reference only, subject to change.

\* The standard Seal-Ring material is FPM(e.g. Viton®) however NBR(e.g. perbunan®) is also available on request (See Page 3).

## 3-way Ball Valve



### for Light / Heavy Series Tube.

| Series | Part No.   | Tube OD | DN <sup>(1)</sup> | L <sub>1</sub> | L <sub>2</sub> | H  | h  | h <sub>1</sub> | L     | l     | R   | d   | PN(bar) <sup>(2)</sup> |       |
|--------|------------|---------|-------------------|----------------|----------------|----|----|----------------|-------|-------|-----|-----|------------------------|-------|
|        |            |         |                   |                |                |    |    |                |       |       |     |     | C.Steel                | SS316 |
| L      | BVDM3T- 6L | 6       | 6                 | 70             | 55             | 40 | 22 | 74             | 112.0 | 83.0  | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T- 8L | 8       | 6                 | 70             | 55             | 40 | 28 | 83             | 112.0 | 83.0  | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T-10L | 10      | 9                 | 80             | 65             | 55 | 22 | 74             | 129.0 | 100.0 | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T-12L | 12      | 9                 | 80             | 65             | 55 | 28 | 83             | 135.5 | 106.5 | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T-15L | 15      | 13                | 100            | 80             | 60 | 31 | 85             | 150.0 | 120.0 | 159 | 9.0 | 500                    | 315   |
|        | BVDM3T-18L | 18      | 13                | 100            | 80             | 60 | 31 | 85             | 151.0 | 119.0 | 159 | 9.0 | 400                    | 315   |
|        | BVDM3T-22L | 22      | 18                | 100            | 85             | 73 | 36 | 74             | 156.3 | 124.3 | 240 | 9.0 | 400                    | 160   |
| S      | BVDM3T- 8S | 8       | 6                 | 70             | 55             | 40 | 22 | 83             | 118.0 | 89.0  | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-10S | 10      | 6                 | 70             | 55             | 40 | 28 | 74             | 121.2 | 89.2  | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-12S | 12      | 9                 | 80             | 65             | 55 | 22 | 83             | 130.0 | 89.0  | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-14S | 14      | 9                 | 80             | 65             | 55 | 28 | 85             | 136.1 | 101.1 | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-16S | 16      | 13                | 100            | 80             | 60 | 31 | 85             | 157.0 | 121.0 | 159 | 9.0 | 500                    | 400   |
|        | BVDM3T-20S | 20      | 13                | 100            | 80             | 60 | 31 | 116            | 164.0 | 121.0 | 159 | 9.0 | 400                    | 400   |
|        | BVDM3T-25S | 25      | 18                | 100            | 85             | 73 | 36 | 116            | 171.3 | 123.3 | 240 | 9.0 | 400                    | 315   |

### for BSP Paralled

| Part No.   | T     | DN <sup>(1)</sup> | L <sub>1</sub> | L <sub>2</sub> | H  | h  | h <sub>1</sub> | L     | R   | d   | PN(bar) <sup>(2)</sup> |       |
|------------|-------|-------------------|----------------|----------------|----|----|----------------|-------|-----|-----|------------------------|-------|
|            |       |                   |                |                |    |    |                |       |     |     | C.Steel                | SS316 |
| BVDM3F- 2G | G 1/8 | 6                 | 70             | 55             | 40 | 22 | 74             | 96.8  | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 4G | G 1/4 | 6                 | 70             | 55             | 40 | 22 | 74             | 101.7 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 6G | G 3/8 | 9                 | 80             | 65             | 55 | 28 | 83             | 108.7 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 8G | G 1/2 | 12                | 100            | 80             | 60 | 31 | 85             | 134.3 | 159 | 9.0 | 500                    | 500   |
| BVDM3F-12G | G 3/4 | 18                | 100            | 85             | 73 | 36 | 116            | 133.3 | 240 | 9.0 | 400                    | 315   |

### for NPT

| Part No.   | T          | DN <sup>(1)</sup> | L <sub>1</sub> | L <sub>2</sub> | H  | h  | h <sub>1</sub> | L     | R   | d   | PN(bar) <sup>(2)</sup> |       |
|------------|------------|-------------------|----------------|----------------|----|----|----------------|-------|-----|-----|------------------------|-------|
|            |            |                   |                |                |    |    |                |       |     |     | C.Steel                | SS316 |
| BVDM3F- 4N | 1/4-18 NPT | 6                 | 70             | 55             | 40 | 22 | 74             | 101.7 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 6N | 3/8-18 NPT | 9                 | 80             | 65             | 55 | 28 | 83             | 114.9 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 8N | 1/2-14 NPT | 13                | 100            | 80             | 60 | 31 | 85             | 155.9 | 159 | 9.0 | 500                    | 500   |
| BVDM3F-12N | 3/4-14 NPT | 18                | 100            | 85             | 73 | 36 | 116            | 139.9 | 240 | 9.0 | 400                    | 315   |

### Flow Path

| Type       | L Flow | HL Flow |
|------------|--------|---------|
| Designator | Nil    | HL      |
| Schematic  |        |         |

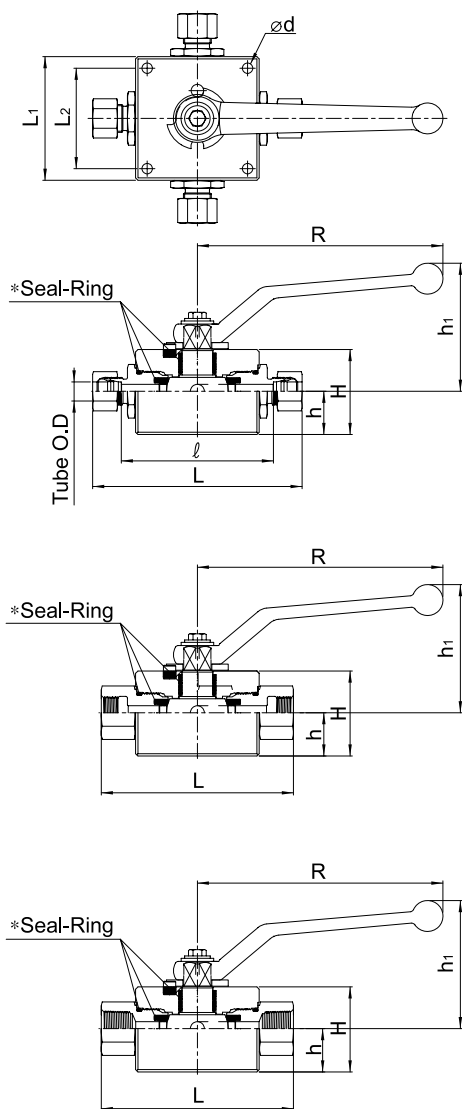
Add a flow path designator into 115 Series basic ordering number.

Examples : BVDM3HLF-4N for HL Flow path.

(1) DN is max. orifice.

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

(2) PN at a safety factor of 1.5 Tube connections are supplied complete with sleeves and nuts.



for Light / Heavy Series Tube.

| Series | Part No.   | Tube OD | DN <sup>(1)</sup> | L <sub>1</sub> | L <sub>2</sub> | H  | h  | h <sub>1</sub> | L     | ℓ     | R   | d   | PN(bar) <sup>(2)</sup> |       |
|--------|------------|---------|-------------------|----------------|----------------|----|----|----------------|-------|-------|-----|-----|------------------------|-------|
|        |            |         |                   |                |                |    |    |                |       |       |     |     | C.Steel                | SS316 |
| L      | BVDM3T- 6L | 6       | 4                 | 70             | 55             | 40 | 22 | 74             | 112.0 | 83.0  | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T- 8L | 8       | 6                 | 70             | 55             | 40 | 28 | 83             | 112.0 | 83.0  | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T-10L | 10      | 6                 | 80             | 65             | 55 | 22 | 74             | 129.0 | 100.0 | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T-12L | 12      | 10                | 80             | 65             | 55 | 28 | 83             | 135.5 | 106.5 | 159 | 6.5 | 500                    | 315   |
|        | BVDM3T-15L | 15      | 13                | 100            | 80             | 60 | 31 | 85             | 150.0 | 120.0 | 159 | 9.0 | 500                    | 315   |
|        | BVDM3T-18L | 18      | 13                | 100            | 80             | 60 | 31 | 85             | 151.0 | 119.0 | 159 | 9.0 | 400                    | 315   |
|        | BVDM3T-22L | 22      | 20                | 100            | 85             | 73 | 36 | 74             | 156.3 | 124.3 | 240 | 9.0 | 400                    | 160   |
| S      | BVDM3T- 8S | 8       | 4                 | 70             | 55             | 40 | 22 | 83             | 118.0 | 89.0  | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-10S | 10      | 6                 | 70             | 55             | 40 | 28 | 74             | 121.2 | 89.2  | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-12S | 12      | 6                 | 80             | 65             | 55 | 22 | 83             | 130.0 | 89.0  | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-14S | 14      | 10                | 80             | 65             | 55 | 28 | 85             | 136.1 | 101.1 | 159 | 6.5 | 500                    | 500   |
|        | BVDM3T-16S | 16      | 13                | 100            | 80             | 60 | 31 | 85             | 157.0 | 121.0 | 159 | 9.0 | 500                    | 400   |
|        | BVDM3T-20S | 20      | 13                | 100            | 80             | 60 | 31 | 116            | 164.0 | 121.0 | 159 | 9.0 | 400                    | 400   |
|        | BVDM3T-25S | 25      | 20                | 100            | 85             | 73 | 3  | 116            | 171.3 | 123.3 | 240 | 9.0 | 400                    | 315   |

for BSP Paralled

| Part No.   | T     | DN <sup>(1)</sup> | L <sub>1</sub> | L <sub>2</sub> | H  | h  | h <sub>1</sub> | L     | R   | d   | PN(bar) <sup>(2)</sup> |       |
|------------|-------|-------------------|----------------|----------------|----|----|----------------|-------|-----|-----|------------------------|-------|
|            |       |                   |                |                |    |    |                |       |     |     | C.Steel                | SS316 |
| BVDM3F- 2G | G 1/8 | 4                 | 70             | 55             | 40 | 22 | 74             | 96.8  | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 4G | G 1/4 | 6                 | 70             | 55             | 40 | 22 | 74             | 101.7 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 6G | G 3/8 | 10                | 80             | 65             | 55 | 28 | 83             | 108.7 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 8G | G 1/2 | 13                | 100            | 80             | 60 | 31 | 85             | 134.3 | 159 | 9.0 | 500                    | 500   |
| BVDM3F-12G | G 3/4 | 20                | 100            | 85             | 73 | 36 | 116            | 133.3 | 240 | 9.0 | 400                    | 315   |

for NPT

| Part No.   | T          | DN <sup>(1)</sup> | L <sub>1</sub> | L <sub>2</sub> | H  | h  | h <sub>1</sub> | L     | R   | d   | PN(bar) <sup>(2)</sup> |       |
|------------|------------|-------------------|----------------|----------------|----|----|----------------|-------|-----|-----|------------------------|-------|
|            |            |                   |                |                |    |    |                |       |     |     | C.Steel                | SS316 |
| BVDM3F- 4N | 1/4-18 NPT | 6                 | 70             | 55             | 40 | 22 | 74             | 101.7 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 6N | 3/8-18 NPT | 10                | 80             | 65             | 55 | 28 | 83             | 114.9 | 159 | 6.5 | 500                    | 500   |
| BVDM3F- 8N | 1/2-14 NPT | 13                | 100            | 80             | 60 | 31 | 85             | 155.9 | 159 | 9.0 | 500                    | 500   |
| BVDM3F-12N | 3/4-14 NPT | 20                | 100            | 85             | 73 | 36 | 116            | 139.9 | 240 | 9.0 | 400                    | 315   |

Folw Path

| Type       | L Flow | HL Flow | LL Flow |
|------------|--------|---------|---------|
| Designator | Nil    | HL      | LL      |
| Schematic  |        |         |         |

Add a flow path designator into 115 Series basic ordering number.  
 Examples : BVDM4HLF-4N for HL Flow path.

(1) DN is max. orifice.      All dimensions are in millimeters for reference only, subject to change.  
 (2) PN at a safety factor of 1.5    Tube connections are supplied complete with sleeves and nuts.

## General informations for Non-Return Valves

### Application

For hydraulic fluid and compressed air.

Please contact our technical support team for doubtful conditions or the use of special fluids.

### Design

Hy-Lok Corp. non return valves are leak-free by elastic materials (e.g. Viton®), and internal parts provide optimal flow conditions for the fluids.

### Opening Pressure

The non return valves are tested at the factory with opening pressure of approx.1 bar. Other opening pressures, ranging from 0.5 to 3 bar, are also available on request.

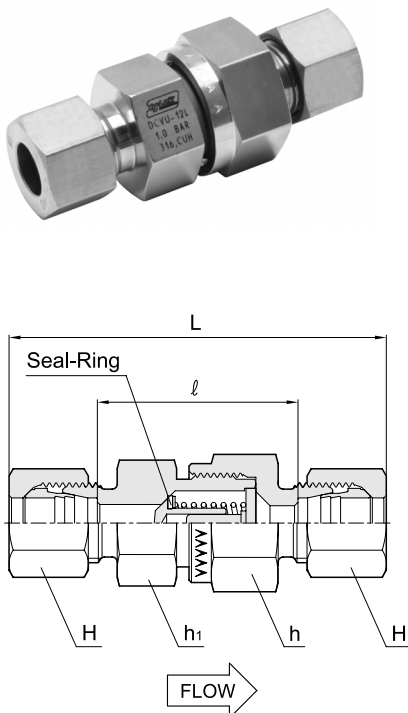
### Materials

Stainless steel 316, carbon steel or brass is available for standard material on request.

The standard Seal-Rings is FPM (e.g. Viton®) however other materials are also available on request.

## Non Return Valve

### DCVU

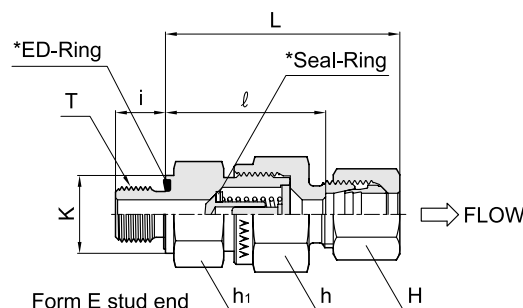


| Series | Part No.   | Tube OD | H  | h  | h <sub>1</sub> | L     | l    | PN(bar) |       |
|--------|------------|---------|----|----|----------------|-------|------|---------|-------|
|        |            |         |    |    |                |       |      | C.Steel | SS316 |
| L      | DCVU - 06L | 6       | 14 | 17 | 17             | 58,0  | 29,0 | 400     | 250   |
|        | DCVU - 08L | 8       | 17 | 19 | 19             | 59,0  | 30,0 | 400     | 250   |
|        | DCVU - 10L | 10      | 19 | 24 | 22             | 69,5  | 40,5 | 400     | 250   |
|        | DCVU - 12L | 12      | 22 | 30 | 27             | 72,5  | 43,5 | 400     | 250   |
|        | DCVU - 15L | 15      | 27 | 32 | 27             | 77,5  | 47,5 | 400     | 250   |
|        | DCVU - 18L | 18      | 32 | 36 | 36             | 83,5  | 51,5 | 400     | 160   |
|        | DCVU - 22L | 22      | 36 | 46 | 41             | 93,5  | 61,5 | 250     | 160   |
|        | DCVU - 28L | 28      | 41 | 55 | 50             | 102,5 | 69,5 | 250     | 100   |
|        | DCVU - 35L | 35      | 50 | 60 | 60             | 117,5 | 74,5 | 250     | 100   |
| S      | DCVU - 42L | 42      | 60 | 70 | 65             | 119,0 | 74,0 | 250     | 100   |
|        | DCVU - 06S | 6       | 17 | 19 | 19             | 63,5  | 34,5 | 420     | 400   |
|        | DCVU - 08S | 8       | 19 | 19 | 19             | 63,5  | 34,5 | 420     | 400   |
|        | DCVU - 10S | 10      | 22 | 24 | 22             | 72,5  | 40,5 | 420     | 400   |
|        | DCVU - 12S | 12      | 24 | 27 | 24             | 74,5  | 42,5 | 420     | 400   |
|        | DCVU - 14S | 14      | 27 | 32 | 27             | 82,5  | 47,5 | 420     | 315   |
|        | DCVU - 16S | 16      | 30 | 36 | 32             | 86,5  | 50,5 | 420     | 315   |
|        | DCVU - 20S | 20      | 36 | 46 | 41             | 97,5  | 54,5 | 420     | 250   |
|        | DCVU - 25S | 25      | 46 | 50 | 46             | 106,5 | 58,5 | 420     | 250   |
|        | DCVU - 30S | 30      | 50 | 60 | 60             | 122,5 | 69,5 | 250     | 250   |
|        | DCVU - 38S | 38      | 60 | 70 | 65             | 136,5 | 75,5 | 250     | 250   |

Dimensions are given for approximate length with tightened nut. All dimensions are in millimeters for reference only, subject to change.

\* The standard Seal-Ring material is FPM(e.g. Viton®) however NBR(e.g. perbunan®) is also available on request (See Page 3).

# Non Return Valve DCV GED-L/S MED-L/S



for ISO/BSP Parallel

| Series | Part No.     | Tube OD | H  | h  | h <sub>1</sub> | K  | L     | ℓ    | i  | T       | PN(bar) |       |
|--------|--------------|---------|----|----|----------------|----|-------|------|----|---------|---------|-------|
|        |              |         |    |    |                |    |       |      |    |         | C.Steel | SS316 |
| L      | DCV01GED-06L | 6       | 14 | 17 | 17             | 14 | 42.5  | 28.0 | 8  | G 1/8   | 400     | 250   |
|        | DCV02GED-08L | 8       | 17 | 19 | 19             | 19 | 44.5  | 30.0 | 12 | G 1/4   | 400     | 250   |
|        | DCV02GED-10L | 10      | 19 | 24 | 22             | 19 | 53.0  | 38.5 | 12 | G 1/4   | 400     | 250   |
|        | DCV03GED-12L | 12      | 22 | 30 | 27             | 22 | 57.0  | 42.5 | 12 | G 3/8   | 400     | 250   |
|        | DCV04GED-15L | 15      | 27 | 32 | 27             | 27 | 60.5  | 45.5 | 14 | G 1/2   | 400     | 250   |
|        | DCV04GED-18L | 18      | 32 | 36 | 36             | 27 | 66.0  | 50.0 | 14 | G 1/2   | 400     | 160   |
|        | DCV06GED-22L | 22      | 36 | 46 | 41             | 32 | 71.0  | 53.0 | 16 | G 3/4   | 250     | 160   |
|        | DCV08GED-28L | 28      | 41 | 55 | 50             | 40 | 79.5  | 63.0 | 18 | G 1     | 250     | 100   |
|        | DCV10GED-35L | 35      | 50 | 60 | 60             | 50 | 90.5  | 69.0 | 20 | G 1 1/4 | 250     | 100   |
|        | DCV12GED-42L | 42      | 60 | 70 | 65             | 55 | 91.0  | 68.5 | 22 | G 1 1/2 | 250     | 100   |
| S      | DCV02GED-06S | 6       | 17 | 19 | 19             | 19 | 46.0  | 31.5 | 12 | G 1/4   | 420     | 400   |
|        | DCV02GED-08S | 8       | 19 | 19 | 19             | 19 | 46.0  | 31.5 | 12 | G 1/4   | 420     | 400   |
|        | DCV03GED-10S | 10      | 22 | 24 | 22             | 22 | 54.0  | 38.0 | 12 | G 3/8   | 420     | 400   |
|        | DCV03GED-12S | 12      | 24 | 27 | 24             | 22 | 57.0  | 41.0 | 12 | G 3/8   | 420     | 400   |
|        | DCV04GED-14S | 14      | 27 | 32 | 27             | 27 | 62.0  | 44.5 | 14 | G 1/2   | 420     | 315   |
|        | DCV04GED-16S | 16      | 30 | 36 | 32             | 27 | 66.0  | 48.0 | 14 | G 1/2   | 420     | 315   |
|        | DCV06GED-20S | 20      | 36 | 46 | 41             | 32 | 73.5  | 52.0 | 16 | G 3/4   | 420     | 250   |
|        | DCV08GED-25S | 25      | 46 | 50 | 46             | 40 | 78.5  | 54.5 | 18 | G 1     | 420     | 250   |
|        | DCV10GED-30S | 30      | 50 | 60 | 60             | 50 | 90.5  | 64.0 | 20 | G 1 1/4 | 250     | 250   |
|        | DCV12GED-38S | 38      | 60 | 70 | 65             | 55 | 100.0 | 69.5 | 22 | G 1 1/2 | 250     | 250   |

for Metric Parallel

| Series | Part No.     | Tube OD | H  | h  | h <sub>1</sub> | K  | L     | ℓ    | i  | T         | PN(bar) |       |
|--------|--------------|---------|----|----|----------------|----|-------|------|----|-----------|---------|-------|
|        |              |         |    |    |                |    |       |      |    |           | C.Steel | SS316 |
| L      | DCVM10ED-06L | 6       | 14 | 17 | 17             | 14 | 42.5  | 28.0 | 8  | M10 x 1.0 | 400     | 250   |
|        | DCVM12ED-08L | 8       | 17 | 19 | 19             | 17 | 43.5  | 30.0 | 12 | M12 x 1.5 | 400     | 250   |
|        | DCVM14ED-10L | 10      | 19 | 24 | 22             | 19 | 53.0  | 38.5 | 12 | M14 x 1.5 | 400     | 250   |
|        | DCVM16ED-12L | 12      | 22 | 30 | 27             | 22 | 57.0  | 42.5 | 12 | M16 x 1.5 | 400     | 250   |
|        | DCVM18ED-15L | 15      | 27 | 32 | 27             | 24 | 60.5  | 45.5 | 12 | M18 x 1.5 | 400     | 250   |
|        | DCVM22ED-18L | 18      | 32 | 36 | 36             | 27 | 66.0  | 50.0 | 14 | M22 x 1.5 | 400     | 160   |
|        | DCVM26ED-22L | 22      | 36 | 46 | 41             | 32 | 71.0  | 55.0 | 16 | M26 x 1.5 | 250     | 160   |
|        | DCVM33ED-28L | 28      | 41 | 55 | 50             | 40 | 79.5  | 63.0 | 18 | M33 x 2.0 | 250     | 100   |
|        | DCVM42ED-35L | 35      | 50 | 60 | 60             | 50 | 90.5  | 69.0 | 20 | M42 x 2.0 | 250     | 100   |
|        | DCVM48ED-42L | 42      | 60 | 70 | 65             | 55 | 91.0  | 67.5 | 22 | M48 x 2.0 | 250     | 100   |
| S      | DCVM12ED-06S | 6       | 17 | 19 | 19             | 17 | 46.0  | 31.5 | 12 | M12 x 1.5 | 420     | 400   |
|        | DCVM14ED-08S | 8       | 19 | 19 | 19             | 19 | 46.0  | 31.5 | 12 | M14 x 1.5 | 420     | 400   |
|        | DCVM16ED-10S | 10      | 22 | 24 | 22             | 22 | 54.0  | 38.0 | 12 | M16 x 1.5 | 420     | 400   |
|        | DCVM18ED-12S | 12      | 24 | 27 | 24             | 24 | 57.0  | 41.0 | 12 | M18 x 1.5 | 420     | 400   |
|        | DCVM20ED-14S | 14      | 27 | 32 | 27             | 26 | 62.0  | 44.5 | 14 | M20 x 1.5 | 420     | 315   |
|        | DCVM22ED-16S | 16      | 30 | 36 | 32             | 27 | 66.0  | 48.0 | 14 | M22 x 1.5 | 420     | 315   |
|        | DCVM27ED-20S | 20      | 36 | 46 | 41             | 32 | 73.5  | 52.0 | 16 | M27 x 2.0 | 420     | 250   |
|        | DCVM33ED-25S | 25      | 46 | 50 | 46             | 40 | 78.5  | 54.5 | 18 | M33 x 2.0 | 420     | 250   |
|        | DCVM42ED-30S | 30      | 50 | 60 | 60             | 50 | 90.5  | 64.0 | 20 | M42 x 2.0 | 250     | 250   |
|        | DCVM48ED-38S | 38      | 60 | 70 | 65             | 55 | 100.0 | 69.5 | 22 | M48 x 2.0 | 250     | 250   |

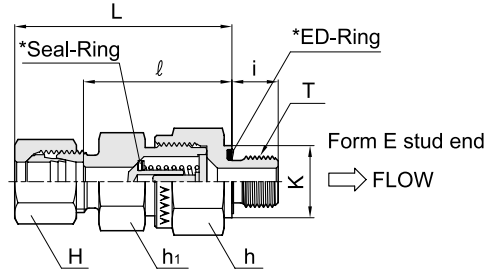
Dimensions are given for approximate length with tightened nut. All dimensions are in millimeters for reference only, subject to change.

\* The standard Seal-Ring material is FPM(e.g. Viton®) however NBR(e.g. perbunan®) is also available on request (See Page 3).

\* The standard ED-Ring material is NBR(e.g. perbunan®) however FPM(e.g. Viton®) is also available on Request (See Page3).



# Non Return Valve DCV L/S-GED L/S-MED



for ISO/BSP Parallel

| Series | Part No.     | Tube OD | H  | h  | h <sub>1</sub> | K  | L     | ℓ    | i  | T       | PN(bar) |       |
|--------|--------------|---------|----|----|----------------|----|-------|------|----|---------|---------|-------|
|        |              |         |    |    |                |    |       |      |    |         | C.Steel | SS316 |
| L      | DCV06L-01GED | 6       | 14 | 17 | 17             | 14 | 41.0  | 26.5 | 8  | G 1/8   | 400     | 250   |
|        | DCV08L-02GED | 8       | 17 | 19 | 19             | 19 | 43.0  | 28.5 | 12 | G 1/4   | 400     | 250   |
|        | DCV10L-02GED | 10      | 19 | 24 | 22             | 19 | 53.0  | 38.5 | 12 | G 1/4   | 400     | 250   |
|        | DCV12L-03GED | 12      | 22 | 30 | 27             | 22 | 55.0  | 40.5 | 12 | G 3/8   | 400     | 250   |
|        | DCV15L-04GED | 15      | 27 | 32 | 27             | 27 | 57.5  | 42.5 | 14 | G 1/2   | 400     | 250   |
|        | DCV18L-04GED | 18      | 32 | 36 | 36             | 27 | 64.0  | 48.0 | 14 | G 1/2   | 400     | 160   |
|        | DCV22L-06GED | 22      | 36 | 46 | 41             | 32 | 72.0  | 56.0 | 16 | G 3/4   | 250     | 160   |
|        | DCV28L-08GED | 28      | 41 | 55 | 50             | 40 | 80.5  | 64.0 | 18 | G 1     | 250     | 100   |
|        | DCV35L-10GED | 35      | 50 | 60 | 60             | 50 | 91.5  | 70.0 | 20 | G 1 1/4 | 250     | 100   |
| S      | DCV06S-02GED | 6       | 17 | 19 | 19             | 19 | 46.0  | 31.5 | 12 | G 1/4   | 420     | 400   |
|        | DCV08S-02GED | 8       | 19 | 19 | 19             | 19 | 46.0  | 31.5 | 12 | G 1/4   | 420     | 400   |
|        | DCV10S-03GED | 10      | 22 | 24 | 22             | 22 | 54.0  | 38.0 | 12 | G 3/8   | 420     | 400   |
|        | DCV12S-03GED | 12      | 24 | 27 | 24             | 22 | 57.0  | 41.0 | 12 | G 3/8   | 420     | 400   |
|        | DCV14S-04GED | 14      | 27 | 32 | 27             | 27 | 61.0  | 43.5 | 14 | G 1/2   | 420     | 315   |
|        | DCV16S-04GED | 16      | 30 | 36 | 32             | 27 | 64.0  | 46.0 | 14 | G 1/2   | 420     | 315   |
|        | DCV20S-06GED | 20      | 36 | 46 | 41             | 32 | 71.5  | 50.0 | 16 | G 3/4   | 420     | 250   |
|        | DCV25S-08GED | 25      | 46 | 50 | 46             | 40 | 78.5  | 54.5 | 18 | G 1     | 420     | 250   |
|        | DCV30S-10GED | 30      | 50 | 60 | 60             | 50 | 90.5  | 64.0 | 20 | G 1 1/4 | 250     | 250   |
|        | DCV38S-12GED | 38      | 60 | 70 | 65             | 55 | 102.0 | 71.5 | 22 | G 1 1/2 | 250     | 250   |

for Metric Parallel

| Series | Part No.     | Tube OD | H  | h  | h <sub>1</sub> | K  | L     | ℓ    | i  | T         | PN(bar) |       |
|--------|--------------|---------|----|----|----------------|----|-------|------|----|-----------|---------|-------|
|        |              |         |    |    |                |    |       |      |    |           | C.Steel | SS316 |
| L      | DCV06L-M10ED | 6       | 14 | 17 | 17             | 14 | 41.0  | 26.5 | 8  | M10 x 1.0 | 400     | 250   |
|        | DCV08L-M12ED | 8       | 17 | 19 | 19             | 17 | 43.0  | 28.5 | 12 | M12 x 1.5 | 400     | 250   |
|        | DCV10L-M14ED | 10      | 19 | 24 | 22             | 19 | 53.0  | 38.5 | 12 | M14 x 1.5 | 400     | 250   |
|        | DCV12L-M16ED | 12      | 22 | 30 | 27             | 22 | 55.0  | 40.5 | 12 | M16 x 1.5 | 400     | 250   |
|        | DCV15L-M18ED | 15      | 27 | 32 | 27             | 24 | 57.5  | 42.5 | 12 | M18 x 1.5 | 400     | 250   |
|        | DCV18L-M22ED | 18      | 32 | 36 | 36             | 27 | 64.0  | 48.0 | 14 | M22 x 1.5 | 400     | 160   |
|        | DCV22L-M26ED | 22      | 36 | 46 | 41             | 32 | 72.0  | 56.0 | 16 | M26 x 1.5 | 250     | 160   |
|        | DCV28L-M33ED | 28      | 41 | 55 | 50             | 40 | 80.5  | 64.0 | 18 | M33 x 2.0 | 250     | 100   |
|        | DCV35L-M42ED | 35      | 50 | 60 | 60             | 50 | 91.5  | 70.0 | 20 | M42 x 2.0 | 250     | 100   |
| S      | DCV42L-M48ED | 42      | 60 | 70 | 65             | 55 | 93.0  | 70.5 | 22 | M48 x 2.0 | 250     | 100   |
|        | DCV06S-M12ED | 6       | 17 | 19 | 19             | 17 | 46.0  | 31.5 | 12 | M12 x 1.5 | 420     | 400   |
|        | DCV08S-M14ED | 8       | 19 | 19 | 19             | 19 | 46.0  | 31.5 | 12 | M14 x 1.5 | 420     | 400   |
|        | DCV10S-M16ED | 10      | 22 | 24 | 22             | 22 | 54.0  | 38.0 | 12 | M16 x 1.5 | 420     | 400   |
|        | DCV12S-M18ED | 12      | 24 | 27 | 24             | 24 | 57.0  | 41.0 | 12 | M18 x 1.5 | 420     | 400   |
|        | DCV14S-M20ED | 14      | 27 | 32 | 27             | 26 | 61.0  | 43.5 | 14 | M20 x 1.5 | 420     | 315   |
|        | DCV16S-M22ED | 16      | 30 | 36 | 32             | 27 | 64.0  | 46.0 | 14 | M22 x 1.5 | 420     | 315   |
|        | DCV20S-M27ED | 20      | 36 | 46 | 41             | 32 | 71.5  | 50.0 | 16 | M27 x 2.0 | 420     | 250   |
|        | DCV25S-M33ED | 25      | 46 | 50 | 46             | 40 | 78.5  | 54.5 | 18 | M33 x 2.0 | 420     | 250   |
|        | DCV30S-M42ED | 30      | 50 | 60 | 60             | 50 | 90.5  | 64.0 | 20 | M42 x 2.0 | 250     | 250   |
|        | DCV38S-M48ED | 38      | 60 | 70 | 65             | 55 | 102.0 | 71.5 | 22 | M48 x 2.0 | 250     | 250   |

Dimensions are given for approximate length with tightened nut. All dimensions are in millimeters for reference only, subject to change.

\* The standard Seal-Ring material is FPM(e.g. Viton®) however NBR(e.g. perbunan®) is also available on request (See Page 3).

\* The standard ED-Ring material is NBR(e.g. perbunan®) however FPM(e.g. Viton®) is also available on Request (See Page3).





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## SAFETY in FITTING SELECTION

Proper installation, materials compatibility, operation and maintenance of this 24° tube fittings are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety

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