

# Subsea Hydraulic Directional Control Valves

## Features

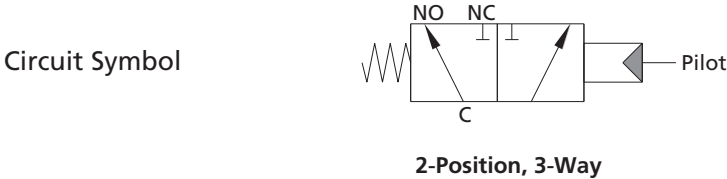
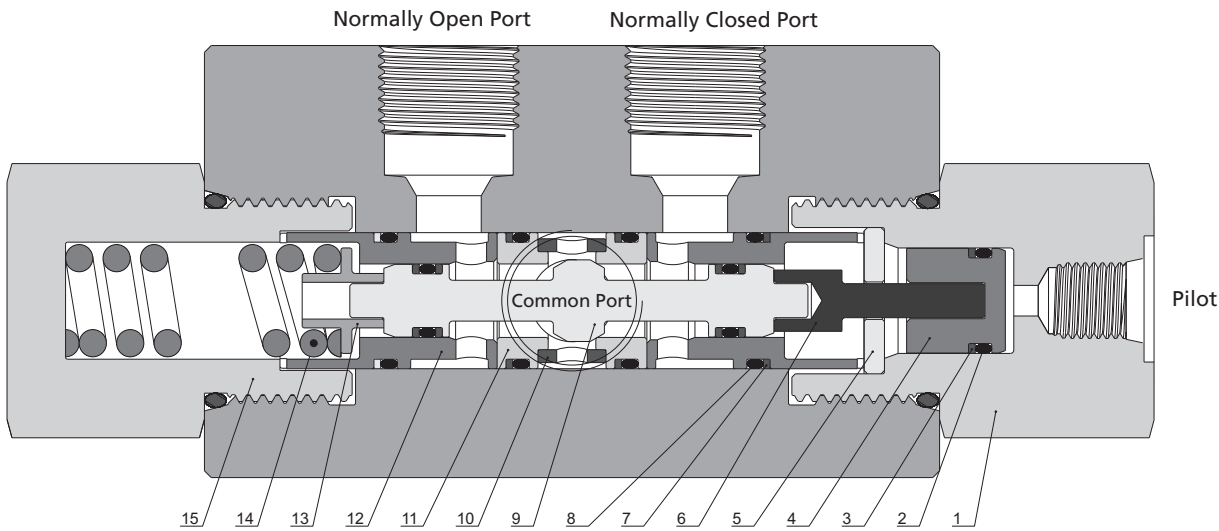
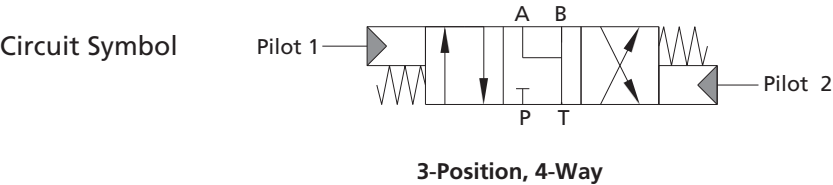
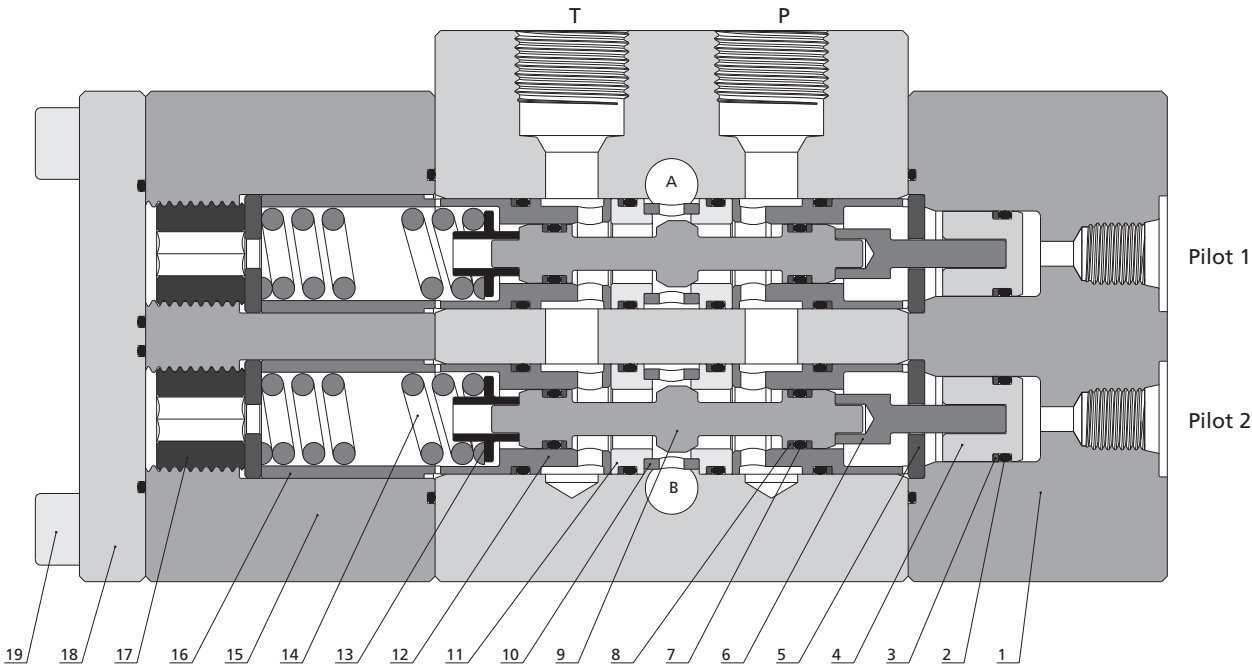
- Working pressure up to 20,000 psig (1379 bar)
- Pilot working pressure: 3,000 psig (207 bar)
- Maximum external pressure: 6,000 psig (414 bar)
- NBR O-ring for operation from -10 to 250°F (-23 to 121°C); other O-ring materials available
- High tensile 316 stainless steel for valve body
- NBR O-rings seal provides excellent oil resistance
- Easy to connect, switch off and reverse between different flow channels
- Hydraulic remote control for easy operation
- Bolt connection for easy disassembly and maintenance
- Low impact performance to maximize cycle life
- Suitable for application with oil or water
- Orifice size: 0.25", 0.375"
- Maximum water depth: 13,800 ft. (4200 m)



|                              |
|------------------------------|
| Fittings                     |
| Tubing                       |
| Quick Couplings              |
| Line Filters                 |
| Valves                       |
| Sour Service Products        |
| Subsea Valves                |
| Part Number Crossover Charts |

Standard Materials of Construction

|                              |
|------------------------------|
| Fittings                     |
| Tubing                       |
| Quick Couplings              |
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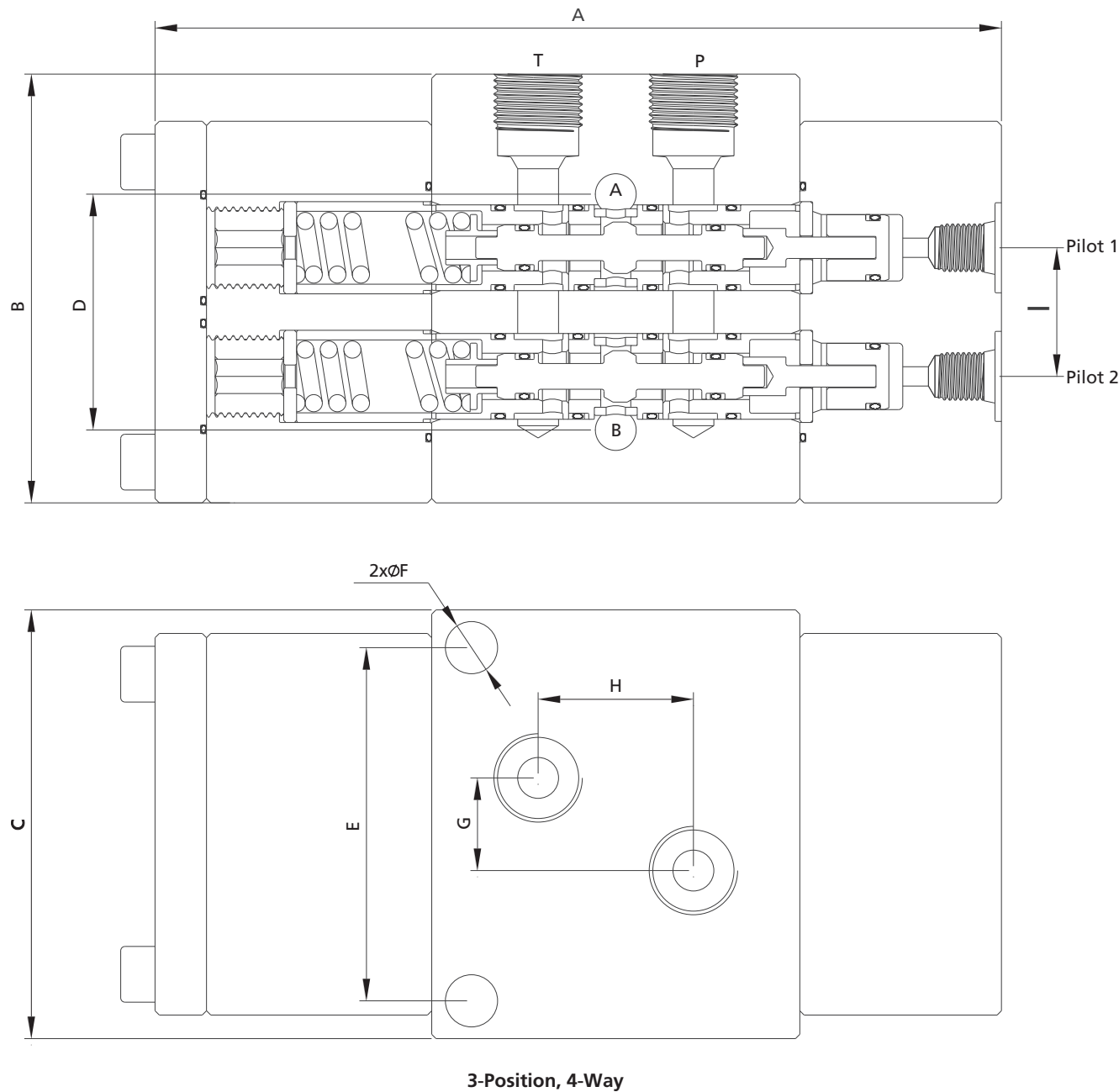


| Item | Component             | Material Grade |
|------|-----------------------|----------------|
| 1    | Gland                 | F316           |
| 2    | O-Ring                | NBR            |
| 3    | Retaining Ring        | PTFE           |
| 4    | Piston                | 316 SS         |
| 5    | Gasket                | 316 SS         |
| 6    | Connection Block      | 316 SS         |
| 7    | <i>O-Ring</i>         | <i>NBR</i>     |
| 8    | <i>Retaining Ring</i> | <i>PEEK</i>    |
| 9    | <i>Stem</i>           | <i>S17400</i>  |
| 10   | <i>Pad</i>            | <i>S17400</i>  |
| 11   | <i>Seat</i>           | <i>316 SS</i>  |
| 12   | <i>Bush</i>           | <i>S17400</i>  |
| 13   | Connection Block      | 316 SS         |
| 14   | Spring                | S17700         |
| 15   | Gland                 | F316           |
| 16   | Bush                  | S17400         |
| 17   | Screw                 | 316 SS         |
| 18   | Gland                 | F316           |
| 19   | Locking Screw         | 316 SS         |

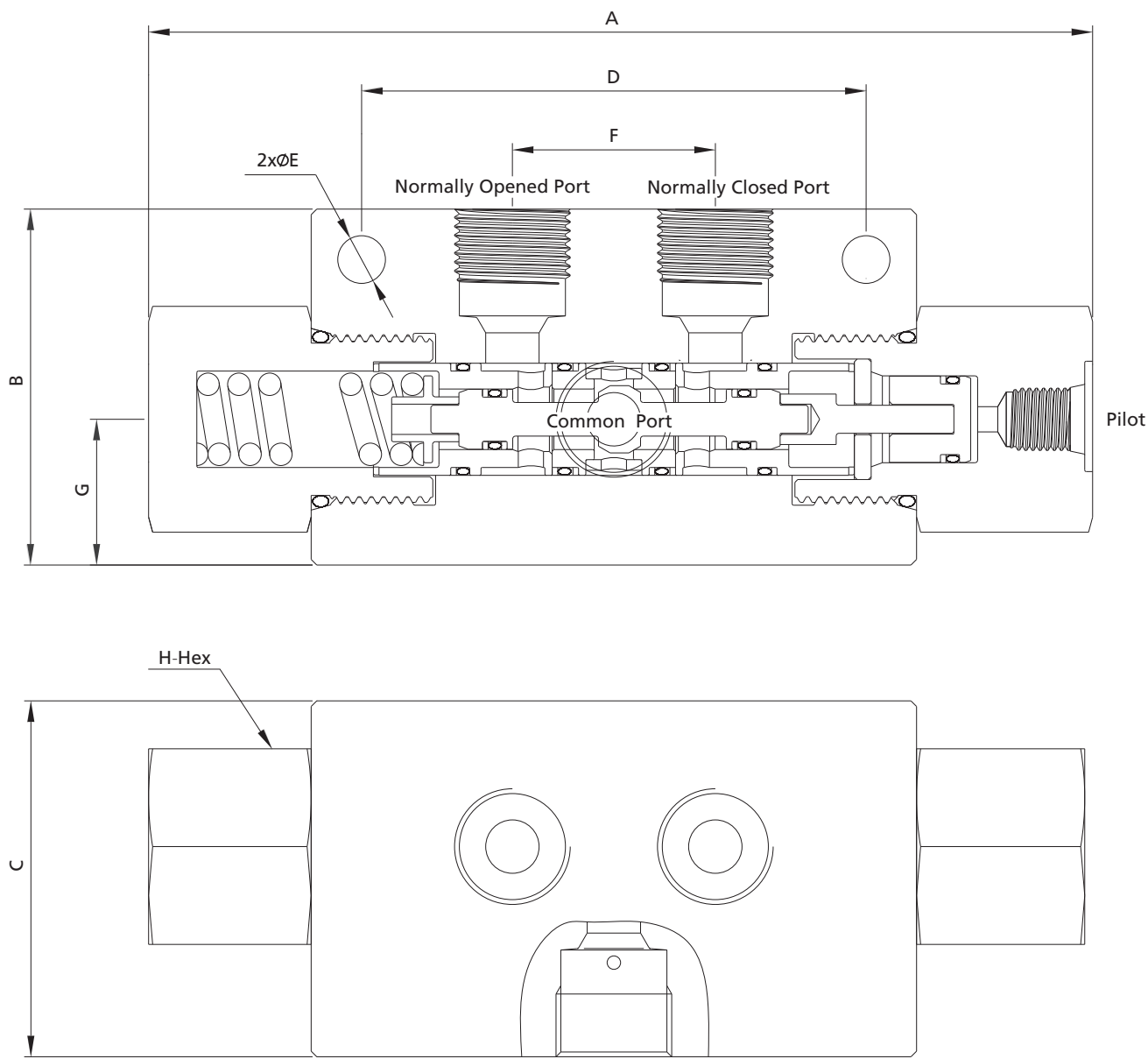
Wetted components listed in italics.

|                              |
|------------------------------|
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Ordering Information and Dimensions



| Ordering Number        | Dimensions, in. (mm) |                |                |                |                |                |                |                |                |                 | Working Pressure<br>psig (bar) |
|------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|--------------------------------|
|                        | A                    | B              | C              | D              | E              | F              | G              | H              | I              | Orifice         |                                |
| 15SDCSS-3P4W-MF9-US7   | 6.70<br>(170.3)      | 3.50<br>(88.9) | 3.50<br>(88.9) | 1.74<br>(44.2) | 2.82<br>(71.1) | 0.41<br>(10.5) | 0.76<br>(19.4) | 1.13<br>(28.6) | 1.00<br>(25.4) | 0.25<br>(6.35)  | 15,000 (1034)                  |
| 15SDCSS-3P4W-MF9-6-US7 | 7.20<br>(183)        | 3.54<br>(90)   | 3.74<br>(95)   | 1.26<br>(32)   | 3.19<br>(81)   | 0.33<br>(8.5)  | 1.02<br>(26)   | 1.10<br>(28)   | 1.10<br>(28)   | 0.375<br>(9.53) |                                |
| 20SDCSS-3P4W-MF9-6-US7 | 7.20<br>(183)        | 3.78<br>(96)   | 4.13<br>(105)  | 1.26<br>(32)   | 3.50<br>(89)   | 0.33<br>(8.5)  | 1.02<br>(26)   | 1.46<br>(37)   | 1.10<br>(28)   | 0.375<br>(9.53) | 20,000 (1379)                  |



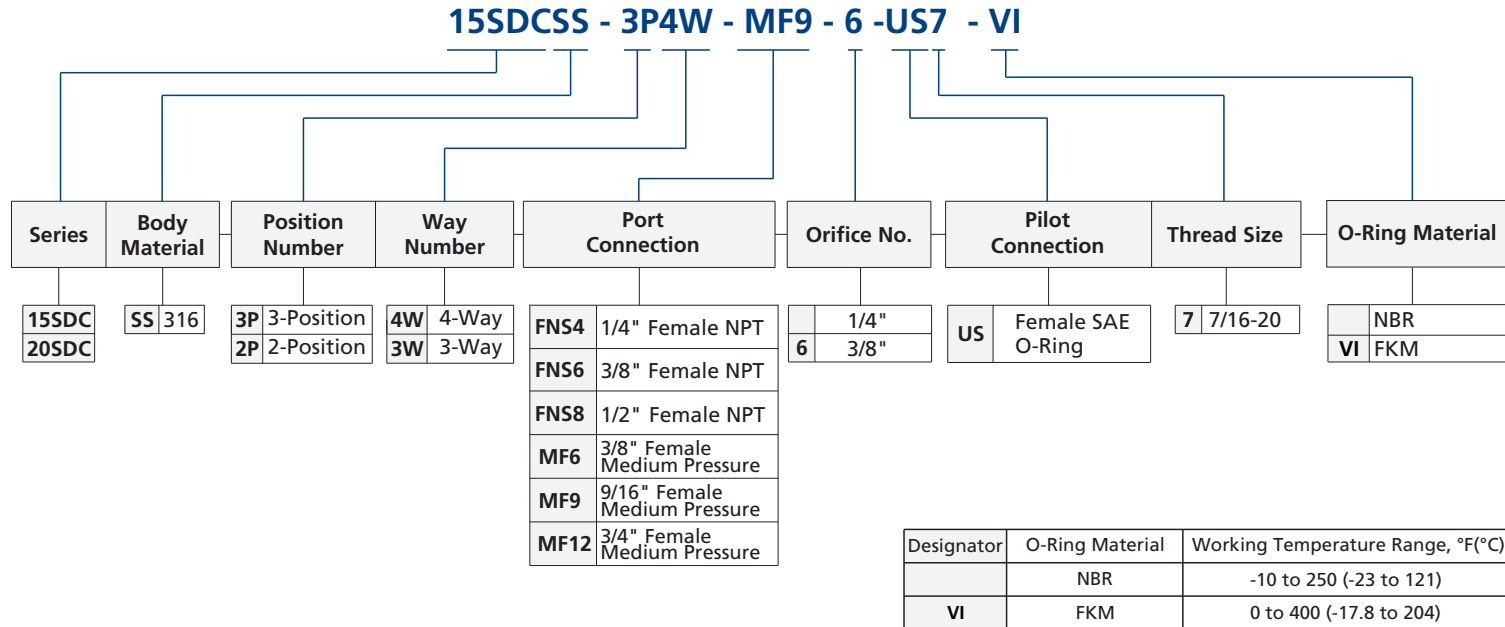
2-Position, 3-Way

| Ordering Number        | Dimensions, in. (mm) |              |              |              |               |             |              |                |                | Working Pressure<br>psig (bar) |
|------------------------|----------------------|--------------|--------------|--------------|---------------|-------------|--------------|----------------|----------------|--------------------------------|
|                        | A                    | B            | C            | D            | E             | F           | G            | H              | Orifice        |                                |
| 15SDCSS-2P3W-MF9-US7   | 6.40<br>(162.5)      | 2.56<br>(65) | 2.56<br>(65) | 3.70<br>(94) | 033<br>(8.5)  | 142<br>(36) | 1.02<br>(26) | 163<br>(41.28) | 025<br>(6.35)  | 15,000 (1034)                  |
| 15SDCSS-2P3W-MF9-6-US7 | 6.40<br>(162.5)      | 2.56<br>(65) | 2.56<br>(65) | 3.70<br>(94) | 0.33<br>(8.5) | 142<br>(36) | 102<br>(26)  | 163<br>(41.28) | 0375<br>(9.53) |                                |

|                              |
|------------------------------|
| Fittings                     |
| Tubing                       |
| Quick Couplings              |
| Line Filters                 |
| Valves                       |
| Sour Service Products        |
| Subsea Valves                |
| Part Number Crossover Charts |

|                                 |               |                          |        |              |                 |        |          |
|---------------------------------|---------------|--------------------------|--------|--------------|-----------------|--------|----------|
| Part Number<br>Crossover Charts | Subsea Valves | Sour Service<br>Products | Valves | Line Filters | Quick Couplings | Tubing | Fittings |
|---------------------------------|---------------|--------------------------|--------|--------------|-----------------|--------|----------|

## Ordering Number Description



- Notes: 1. For more details regarding Medium Pressure connection, please see **Connection Information** on A-02.  
 2. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number.  
 Not all combinations are available.