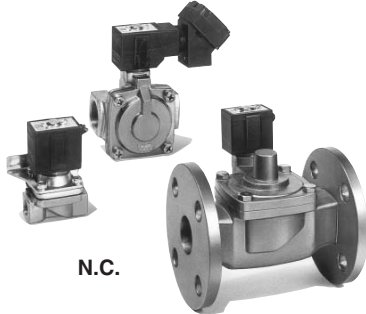


# Pilot Operated 2 Port Solenoid Valve For Air, Gas, Water and Oil

## Series VXD21/22/23



N.C.



N.O.

- **Wide variations of combination.**  
**Able to control a wide variety of fluids.**

Valve can be matched to a particular application through selection of body material (Brass/BC6 or Stainless steel), seal material (NBR, EPDM or FKM) and solenoid coil (Class B or H)

- **Easy to disassemble and reassemble in a short time.**

VC□

VDW

VQ

VX2

VX□

VX3

VXA

VN□

LVC

LVA

L VH

LVD

L VQ

LQ

LVN

T/ TIL

PA

PAX

PB

### Variations

**Valve**

Normally closed (N.C.)

Normally open (N.O.)

**Solenoid coil**

Coil: Class B, Class H

**Rated voltage**

AC  
Standard — 100 V, 200 V  
Option — 48 V, 110 V, 220 V, 240 V

DC  
Standard — 24 V  
Option — 12 V

**Material**

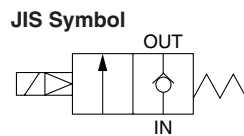
Body — Brass/BC6, Stainless steel  
Seal — NBR, EPDM, FKM

**Electrical entry**

- Grommet
- Conduit
- DIN terminal
- Conduit terminal

| Model                 |                  |                    |
|-----------------------|------------------|--------------------|
| Model                 | Port size        | Orifice size (mmø) |
| VXD2130               | Rc 1/4, 3/8, 1/2 | 10                 |
| VXD214 <sup>1/2</sup> | Rc 3/8, 1/2      | 15                 |
| VXD215 <sup>1/2</sup> | Rc 3/4           | 20                 |
| VXD226 <sup>1/2</sup> | Rc 1             | 25                 |
| VXD227 <sup>1/2</sup> | 32A              | 35                 |
| VXD238 <sup>1/2</sup> | 40A              | 40                 |
| VXD239 <sup>1/2</sup> | 50A              | 50                 |

## Normally Closed (N.C.)



### Fluid

| Standard specifications | Option <sup>(1)</sup>                   | Made to Order <sup>(2)</sup>                     |
|-------------------------|---|--|
| Water (Standard)        | High temperature water ... (D, E, N, P) | Air ..... X44                                    |
| Turbine oil             | High temperature oil ..... (D, N)       | Vacuum (up to 1.3 x 10 <sup>2</sup> Pa)..... X44 |



Note 1) Refer to page 17-3-9 "Applicable Fluids Check List" for details of special fluids outside of the standard options and specifications.  
 Note 2) Please contact SMC for details.

### Model/Valve Specifications <Normally Closed>

| Connection<br>Thread | Orifice<br>size<br>(mm) | Model      | Min. operating<br>pressure<br>differential<br>(MPa) | Max. operating pressure differential (MPa) |     |     |     |     |     | Flow characteristics                    |              |                              |      |     | Max. system<br>pressure<br>(MPa) | Weight<br>(g) |
|----------------------|-------------------------|------------|---|--|-----|-----|-----|-----|-----|---|--------------|------------------------------|------|-----|----------------------------------|---------------|
|                      |                         |            |   | Water                                      |     | Air |     | Oil |     | Water, Oil                              |              | Air                          |      |     |                                  |               |
|                      |                         |            |   | AC   | DC  | AC  | DC  | AC  | DC  | Av x 10 <sup>-6</sup> (m <sup>2</sup> ) | Cv converted | C [dm <sup>3</sup> /(s·bar)] | b    | Cv  |                                  |               |
| 1/4                  | 10                      | VXD2130-02 | 0.02  | 0.7  | 0.5 | 0.9 | 0.7 | 0.5 | 0.4 | 46                                      | 1.9          | 8.5                          | 0.35 | 2.0 | 1.5                              | 420           |
|                      | 10                      | VXD2130-03 | 0.02  | 0.7  | 0.5 | 0.9 | 0.7 | 0.5 | 0.4 | 58                                      | 2.4          | 9.2                          | 0.35 | 2.4 |                                  | 420           |
| 3/8                  | 15                      | VXD2140-03 | 0.02  | 1.0  | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 | 110                                     | 4.5          | 18                           | 0.35 | 5.0 |                                  | 670           |
|                      | 10                      | VXD2130-04 | 0.02  | 0.7  | 0.5 | 0.9 | 0.7 | 0.5 | 0.4 | 58                                      | 2.4          | 9.2                          | 0.35 | 2.4 |                                  | 500           |
| 1/2                  | 15                      | VXD2140-04 | 0.02  | 1.0  | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 | 130                                     | 5.5          | 20                           | 0.35 | 5.5 |                                  | 670           |
|                      | 20                      | VXD2150-06 | 0.02  | 1.0  | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 | 230                                     | 9.5          | 38                           | 0.30 | 9.5 |                                  | 1150          |

| Connection<br>Thread | Flange | Orifice<br>size<br>(mm) | Model      | Min. operating<br>pressure<br>differential<br>(MPa) | Max. operating pressure differential (MPa) |     |     |     |     |     | Flow characteristics                    |              |                                   | Max. system<br>pressure<br>(MPa) | Weight<br>(g) |
|----------------------|--------|-------------------------|------------|---|--|-----|-----|-----|-----|-----|---|--------------|-----------------------------------|----------------------------------|---------------|
|                      |        |                         |            |   | Water                                      |     | Air |     | Oil |     | Water, Oil                              |              | Air                               |                                  |               |
|                      |        |                         |            |   | AC   | DC  | AC  | DC  | AC  | DC  | Av x 10 <sup>-6</sup> (m <sup>2</sup> ) | Cv converted | Effective area (mm <sup>2</sup> ) |                                  |               |
| 1                    | —      | 25                      | VXD2260-10 | 0.02  | 1.0  | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 | 310                                     | 13           | 225                               | 1.5                              | 1650          |
| —                    | 32A    | 35                      | VXD2270-32 | 0.03  | 1.0  | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 | 550                                     | 23           | 415                               |                                  | 5400          |
| —                    | 40A    | 40                      | VXD2380-40 | 0.03  | 1.0  | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 | 740                                     | 31           | 560                               |                                  | 6800          |
| —                    | 50A    | 50                      | VXD2390-50 | 0.03  | 1.0  | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 | 1200                                    | 49           | 880                               |                                  | 8400          |



Note) Weight of grommet type. Add 10 g for conduit type, 30 g for DIN terminal type, 60 g for conduit terminal type respectively.  
 • Refer to "Glossary" on page 17-3-15 for details of max. operating pressure differential and max. system pressure.

### Solenoid Specifications

| Model | Power source | Frequency (Hz) | Apparent power (VA) |         | Power consumption (W) (Holding) | Temperature rise (°C) (Rated voltage) |
|-------|--------------|----------------|---------------------|---------|---------------------------------|---------------------------------------|
|       |              |                | Inrush              | Holding |                                 |                                       |
| VXD21 | AC           | 50             | 20 (32)             | 11      | 4.5                             | 45                                    |
|       |              | 60             | 17 (28)             | 7       | 3.2                             | 35                                    |
| VXD22 | DC           | —              | —                   | —       | 6                               | 55                                    |
|       |              | 50             | 40                  | 18      | 7.5                             | 60                                    |
| VXD23 | AC           | 50             | 50                  | 21      | 11                              | 65                                    |
|       |              | 60             | 45                  | 17      | 9.5                             | 60                                    |
| VXD23 | DC           | —              | —                   | —       | 11.5                            | 65                                    |



Note) • The return voltage is 20% or more of the rated voltage for AC and 2% or more for DC.  
 • The allowable voltage fluctuation rate is ±10% of the rated voltage value for both AC and DC.  
 • When the ambient temperature is 20°C ± 5°C and rated voltage is applied.  
 • Changing coils from AC to DC and vice versa is impossible, because of different core shapes.  
 VXD21<sub>0</sub>, 22<sub>0</sub>, 23<sub>0</sub> are possible to exchange coil from AC to DC, but impossible from DC to AC.  
 (Hum sound may generate because of no shading coil for DC.)  
 • The value of the apparent power volt ampere in parentheses is that of VXD2130.

### Operating Fluid and Ambient Temperature

| Temperature conditions | Power source | Operating fluid temperature (°C) |                    |                   |  |                             | Ambient temperature (°C) |
|------------------------|--------------|----------------------------------|--------------------|-------------------|--|-----------------------------|--------------------------|
|                        |              | Water (Standard)                 | Air (Standard)     | Oil (Standard)    | High temperature water <sup>(3)</sup> (D, E, N, P) | High temperature oil (D, N) |                          |
| Maximum                | AC           | 60                               | 80                 | 60                | 99 <sup>(4)</sup>                                  | 100 <sup>(4)</sup>          | 60                       |
|                        | DC           | 40                               | 60                 | 40                | —  | —                           | 40                       |
| Minimum                | AC/DC        | 1                                | -10 <sup>(1)</sup> | -5 <sup>(2)</sup> | —  | —                           | -10                      |

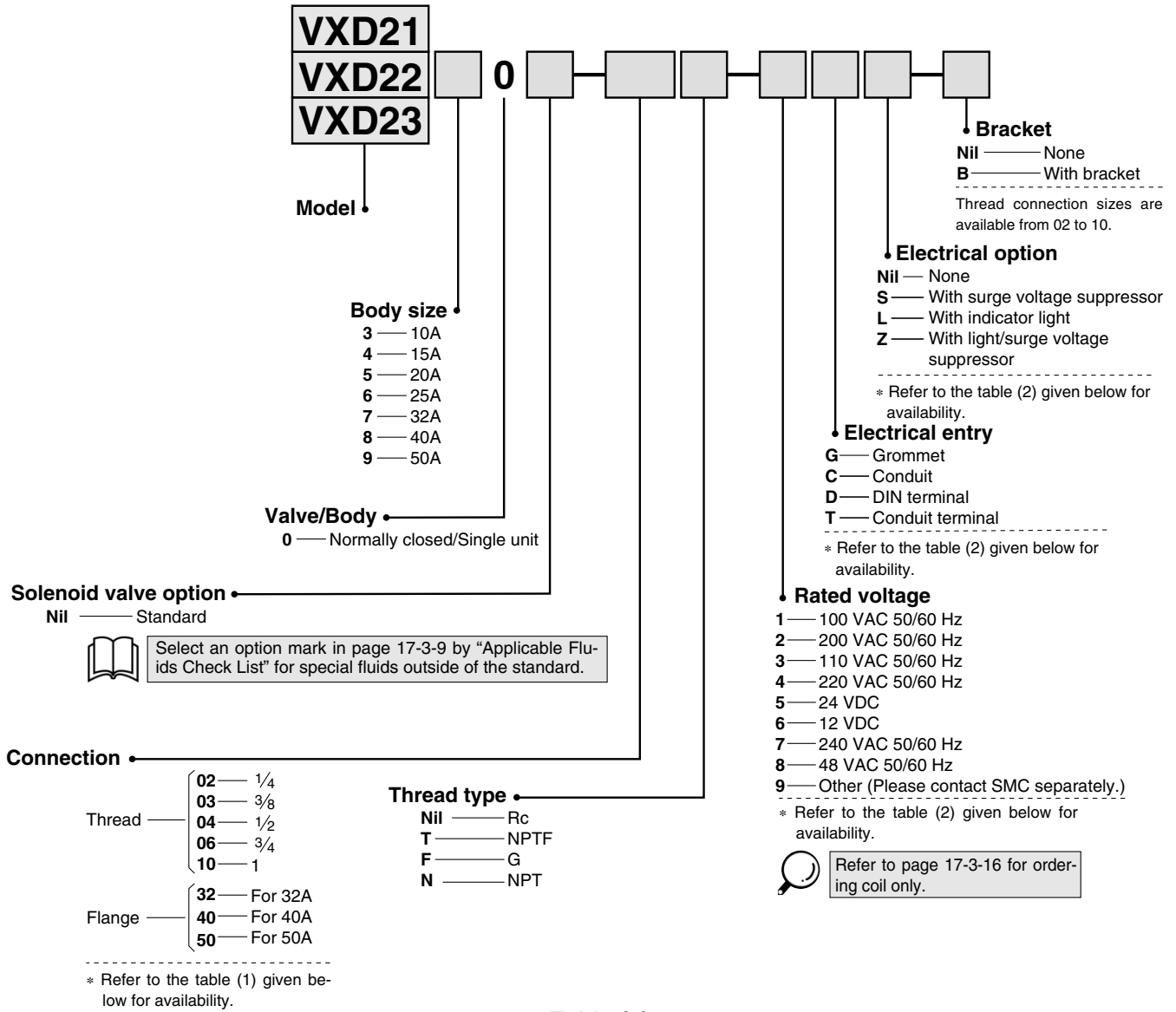


Note 1) Dew point: -10°C or less  
 Note 2) 50 cSt or less  
 Note 3) "D", "E", "N", "P" etc. in parentheses are option symbols.  
 Note 4) 32A to 50A are 80°C.

# Pilot Operated 2 Port Solenoid Valve For Air, Gas, Water and Oil Series VXD21/22/23

The VX\* series will be revised shortly.

## How to Order (Normally Closed)



- VC
- VDW
- VQ
- VX2
- VX
- VX3
- VXA
- VN
- LVC
- LVA
- LVH
- LVD
- LVQ
- LQ
- LVN
- T/ TIL
- PA
- PAX
- PB

**Table (1)  
Connection Size and Applicable Model**

| Connection | Size | Applicable model       |
|------------|------|------------------------|
| Thread     | 1/4  | VXD2130-02             |
|            | 3/8  | VXD2130-03, VXD2140-03 |
|            | 1/2  | VXD2130-04, VXD2140-04 |
|            | 3/4  | VXD2150-06             |
| Flange     | 1    | VXD2260-10             |
|            | 32A  | VXD2270-32             |
|            | 40A  | VXD2380-40             |
|            | 50A  | VXD2390-50             |

**Table (2)  
Rated Voltage-Electrical Entry-Electrical Option**

| Insulation type   | Class B             |   |      |   | Class H |      |   |   |
|-------------------|---------------------|---|------|---|---------|------|---|---|
|                   | G                   | C | D, T | S | L, Z    | G, C | S | T |
| Electrical entry  |                     |   |      |   |         |      |   |   |
| Electrical option | S <sup>(Note)</sup> | — | —    | — | —       | —    | — | — |
| AC                | 1 (100 V)           | ● | ●    | ● | ●       | ●    | ● | ● |
|                   | 2 (200 V)           | ● | ●    | ● | ●       | ●    | ● | ● |
|                   | 3 (110 V)           | ● | ●    | ● | ●       | ●    | ● | ● |
|                   | 4 (220 V)           | ● | ●    | ● | ●       | ●    | ● | ● |
|                   | 7 (240 V)           | ● | ●    | ● | —       | —    | ● | — |
| DC                | 8 (48 V)            | ● | ●    | ● | —       | —    | ● | — |
|                   | 5 (24 V)            | ● | ●    | ● | —       | —    | — | — |
|                   | 6 (12 V)            | ● | ●    | ● | —       | —    | — | — |

Note) Surge voltage suppressor is attached in the middle of lead wire.

**Ordering example**

(Example) Series VXD21, Rc 3/4, 200 VAC, DIN terminal, With surge voltage suppressor  
(Part no.) **VXD2150-06-2DS**

**Made to Order Specifications**

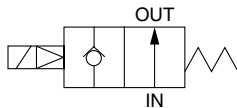
**Splashproof Specifications** (Based on JIS C 0920 Based on IEC529IP-X4)

**VXD Model — Port size — Electrical entry - X36**

DIN terminal or class H coil not available.

## Normally Open (N.O.)

### JIS Symbol



### Fluid

| Standard specifications | Option <sup>(1)</sup>                   | Made to Order <sup>(2)</sup> |
|-------------------------|---|------------------------------|
| Water (standard)        | High temperature water ... (D, E, N, P) | Air ..... X44                |
| Turbine oil             | High temperature oil ..... (D, N)       |                              |



Note 1) Refer to page 17-3-9 "Applicable Fluids Check List" for details of special fluids outside of the standard options and specifications.

Note 2) Please contact SMC for details.

## Model/Valve Specifications <Normally Open>

| Connection<br>Thread | Flange | Orifice size<br>(mmø) | Model      | Min. operating pressure differential<br>(MPa) | Max. operating pressure differential<br>(MPa) |     | Flow characteristics                    |              |                              |      |     | Max. system pressure<br>(MPa) | Weight<br>(g) |
|----------------------|--------|-----------------------|------------|---|---|-----|---|--------------|------------------------------|------|-----|-------------------------------|---------------|
|                      |        |                       |            |   | Water, Air                                    | Oil | Water, Oil, Steam                       |              | Air                          |      |     |                               |               |
|                      |        |                       |            |   |   |     | Av x 10 <sup>-6</sup> (m <sup>2</sup> ) | Cv converted | C [dm <sup>3</sup> /(s·bar)] | b    | Cv  |                               |               |
| 3/8                  | —      | 15                    | VXD2142-03 | 0.02  | 0.7   | 0.6 | 110                                     | 4.5          | 18                           | 0.35 | 5.0 | 1.5                           | 690           |
| 1/2                  | —      | 15                    | VXD2142-04 | 0.02  | 0.7   | 0.6 | 130                                     | 5.5          | 20                           | 0.35 | 5.5 |                               | 690           |
| 3/4                  | —      | 20                    | VXD2152-06 | 0.02  | 0.7   | 0.6 | 230                                     | 9.5          | 38                           | 0.30 | 9.5 |                               | 1170          |

| Connection<br>Thread | Flange | Orifice size<br>(mmø) | Model      | Min. operating pressure differential<br>(MPa) | Max. operating pressure differential<br>(MPa) |     | Flow characteristics                    |              |                                   | Max. system pressure<br>(MPa) | Weight<br>(g) |
|----------------------|--------|-----------------------|------------|---|---|-----|---|--------------|-----------------------------------|-------------------------------|---------------|
|                      |        |                       |            |   | Water, Air                                    | Oil | Water, Oil, Steam                       |              | Air                               |                               |               |
|                      |        |                       |            |   |   |     | Av x 10 <sup>-6</sup> (m <sup>2</sup> ) | Cv converted | Effective area (mm <sup>2</sup> ) |                               |               |
| 1                    | —      | 25                    | VXD2262-10 | 0.02  | 0.7   | 0.6 | 310                                     | 13           | 225                               | 1.5                           | 1690          |
| —                    | 32A    | 35                    | VXD2272-32 | 0.03  | 0.7   | 0.6 | 550                                     | 23           | 415                               |                               | 5400          |
| —                    | 40A    | 40                    | VXD2382-40 | 0.03  | 0.7   | 0.6 | 740                                     | 31           | 560                               |                               | 6800          |
| —                    | 50A    | 50                    | VXD2392-50 | 0.03  | 0.7   | 0.6 | 1200                                    | 49           | 880                               |                               | 8400          |



Note) Weight of grommet type. Add 10 g for conduit type, 30 g for DIN terminal type, 60 g for conduit terminal type respectively.

• Refer to "Glossary" on page 17-3-15 for details of max. operating pressure differential and max. system pressure.

## Solenoid Specifications

| Model | Power source | Frequency<br>(Hz) | Apparent power (VA) |         | Power consumption<br>(W) (Holding) | Temperature rise (°C)<br>(Rated voltage) |
|-------|--------------|-------------------|---------------------|---------|------------------------------------|--|
|       |              |                   | Inrush              | Holding |                                    |  |
| VXD21 | AC           | 50                | 25                  | 12      | 5                                  | 50                                       |
|       |              | 60                | 20                  | 8       | 3.5                                | 35                                       |
| VXD22 | AC           | 50                | 45                  | 20      | 8                                  | 55                                       |
|       |              | 60                | 40                  | 15      | 6.5                                | 45                                       |
| VXD23 | AC           | 50                | 60                  | 25      | 10.5                               | 60                                       |
|       |              | 60                | 50                  | 20      | 9.5                                | 50                                       |
| VXD21 | DC           | —                 | —                   | —       | 6                                  | 50                                       |
|       |              | —                 | —                   | —       | 8                                  | 50                                       |
| VXD22 | DC           | —                 | —                   | —       | 8                                  | 50                                       |
|       |              | —                 | —                   | —       | 11.5                               | 55                                       |



Note) • They are values in an ambient temperature of 20°C ± 5°C and application of rated voltage.

- Changing coils from AC to DC and vice versa is impossible, because of different core shapes.
- Return voltage is 20% or more of the rated value at AC power and 5% or more at the DC power.
- The allowable voltage fluctuation rate is ±10% of the rated voltage value for both AC and DC.

## Operating Fluid and Ambient Temperature

| Temperature conditions | Power source | Operating fluid temperature (°C) |                    |                   |   |   | Ambient temperature<br>(°C) |
|------------------------|--------------|----------------------------------|--------------------|-------------------|---|---|-----------------------------|
|                        |              | Water<br>(Standard)              | Air<br>(Standard)  | Oil<br>(Standard) | High temperature water <sup>(3)</sup><br>(D, E, N, P) | High temperature oil <sup>(3)</sup><br>(D, N) |                             |
| Maximum                | AC           | 60                               | 80                 | 60                | 99 <sup>(4)</sup>                                     | 100 <sup>(4)</sup>                            | 60                          |
|                        | DC           | 40                               | 60                 | 40                | —   | —   | 40                          |
| Minimum                | AC, DC       | 1                                | -10 <sup>(1)</sup> | -5 <sup>(2)</sup> | —   | —   | -10                         |



Note 1) Dew point: -10°C or less

Note 2) 50 cSt or less

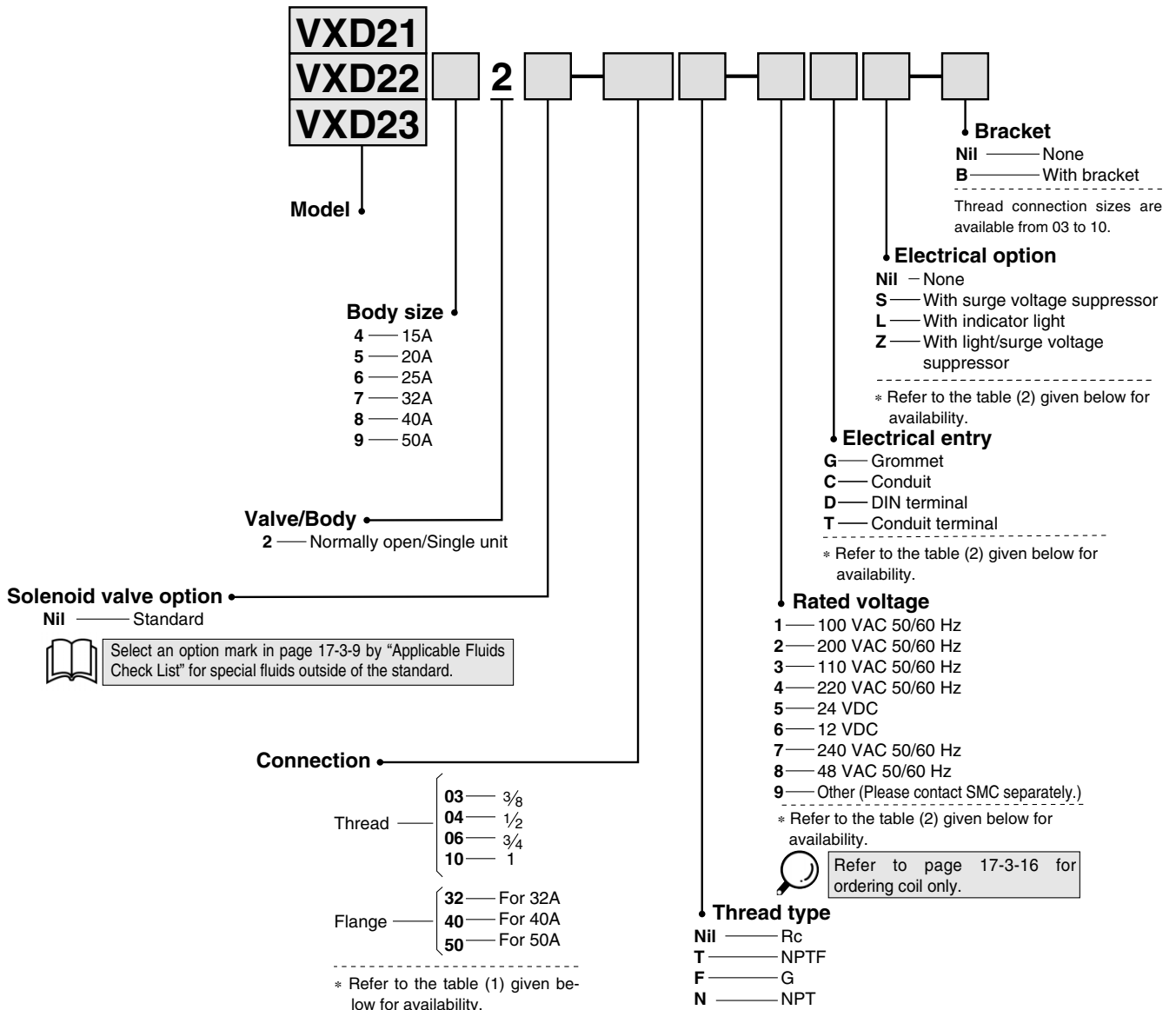
Note 3) "D", "E", "N", "P" etc. in parentheses are option symbols.

Note 4) 32 A to 50 A are 80°C.

# Pilot Operated 2 Port Solenoid Valve Series VXD21/22/23

The VX\* series will be revised shortly.

## How to Order (Normally Open)



- VC
- VDW
- VQ
- VX2
- VX
- VX3
- VXA
- VN
- LVC
- LVA
- LVH
- LVD
- LVQ
- LQ
- LVN
- TI/TIL
- PA
- PAX
- PB

**Table (1)**  
**Connection Size and Applicable Model**

| Connection | Size | Applicable model |
|------------|------|------------------|
| Thread     | 3/8  | VXD2142-03       |
|            | 1/2  | VXD2142-04       |
|            | 3/4  | VXD2152-06       |
| Flange     | 1    | VXD2262-10       |
|            | 32A  | VXD2272-32       |
|            | 40A  | VXD2382-40       |
|            | 50A  | VXD2392-50       |

### Ordering example

(Example) Series VXD21, Rc 1/2, 100 VAC, with terminal, surge voltage suppressor and indicator light (Part no.) "VXD2142-04-1TZ"

**Table (2)**  
**Rated Voltage-Electrical Entry-Electrical Option**

| Insulation type   | Class B            |   |      |         | Class H |   |   |      |
|-------------------|--------------------|---|------|---------|---------|---|---|------|
|                   | G                  | C | D, T | S, L, Z | G, C    | S | T | L, Z |
| Electrical entry  |                    |   |      |         |         |   |   |      |
| Electrical option | S <sup>Note)</sup> | — | S    | L, Z    | —       | S | T | L, Z |
| AC                | 1 (100 V)          | ● | ●    | ●       | ●       | ● | ● | ●    |
|                   | 2 (200 V)          | ● | ●    | ●       | ●       | ● | ● | ●    |
|                   | 3 (110 V)          | ● | ●    | ●       | ●       | ● | ● | ●    |
|                   | 4 (220 V)          | ● | ●    | ●       | ●       | ● | ● | ●    |
|                   | 7 (240 V)          | ● | ●    | —       | —       | — | — | —    |
| DC                | 5 (24 V)           | ● | ●    | ●       | ●       | — | — | —    |
|                   | 6 (12 V)           | ● | ●    | ●       | —       | — | — | —    |

Note) Surge voltage suppressor is attached in the middle of lead wire.

### Made to Order Specifications

**Splashproof Specifications** (Based on JIS C 0920 Based on IEC529IP-X4)

VXD Model — Port size — Electrical entry - X36

DIN terminal or class H coil not available.

## Construction/Principal Parts Material

### Normally Closed (N.C.)

**VXD2130**

**VXD2140/2150/2260**

**VXD2270/2380/2390**

**Operation**  
**<Valve opened>** When the coil ⑨ is energized, the armature assembly ⑦ is attracted into the core of the core assembly ⑥ and the pilot valve ① opens. Then the pressure in the pressure action chamber ② falls to open the main valve ③.  
**<Valve closed>** When the coil ⑨ is not energized, the pilot valve ① is closed and the pressure in the pressure action chamber ② rises and the main valve ③ closes.

| No. | Description        | Size       | Material                    |   |
|-----|--------------------|------------|-----------------------------|---|
|     |                    |            | Standard                    | Option  |
| ①   | Body               | 10A to 25A | Brass                       | Stainless steel                               |
|     |                    | 32A to 50A | BC6                         | —   |
| ②   | Bonnet             | 10A to 25A | Brass                       | Stainless steel                               |
|     |                    | 32A to 50A | BC6                         | —   |
| ③   | O-ring             | —          | NBR                         | FKM/EPDM                                      |
| ④   | Diaphragm assembly | 10A to 25A | Stainless steel, Brass, NBR | Stainless steel, FKM<br>Stainless steel, EPDM |
|     |                    | 32A to 50A |                             | Stainless steel, Brass<br>FKM/EPDM            |
| ⑤   | Valve spring       | —          | Stainless steel             | —   |
| ⑥   | Core assembly      | 10A to 25A | Stainless steel             | Stainless steel, Silver                       |
|     |                    | 32A to 50A | Copper                      | —   |
| ⑦   | Armature assembly  | —          | Stainless steel, NBR        | Stainless steel, FKM<br>Stainless steel, EPDM |
| ⑧   | Return spring      | —          | Stainless steel             | —   |
| ⑨   | Coil assembly      | —          | Class B molded              | Class H molded                                |

### Normally Open (N.O.)

**VXD2142/2152/2262**

**VXD2272/2382/2392**

**Operation**  
**<Valve opened>** When the coil ⑦ is energized, the opened pilot ① closes, the pressure in pressure action chamber ② rises and the main valve ③ closes.  
**<Valve closed>** When coil ⑦ is not energized, the closed pilot valve ① opens, the pressure in pressure action chamber ② drops and the main valve ③ opens.

| No. | Description        | Size       | Material                     |   |
|-----|--------------------|------------|------------------------------|---|
|     |                    |            | Standard                     | Option  |
| ①   | Body               | 15A to 25A | Brass                        | Stainless steel                               |
|     |                    | 32A to 50A | BC6                          | —   |
| ②   | Bonnet             | 15A to 25A | Brass                        | Stainless steel                               |
|     |                    | 32A to 50A | BC6                          | —   |
| ③   | O-ring             | —          | NBR                          | FKM/EPDM                                      |
| ④   | Diaphragm assembly | 15A to 25A | Stainless steel, Brass, NBR  | Stainless steel, FKM<br>Stainless steel, EPDM |
|     |                    | 32A to 50A |                              | Stainless steel, Brass<br>FKM/EPDM            |
| ⑤   | Valve spring       | —          | Stainless steel              | —   |
| ⑥   | Core assembly      | 15A to 25A | Stainless steel, Copper, NBR | Stainless steel, Silver<br>FKM/EPDM, PTFE     |
|     |                    | 32A to 50A | Polyacetal<br>PTFE           | Stainless steel, Copper,<br>FKM/EPDM, PTFE    |
| ⑦   | Coil assembly      | —          | Class B molded               | Class H molded                                |

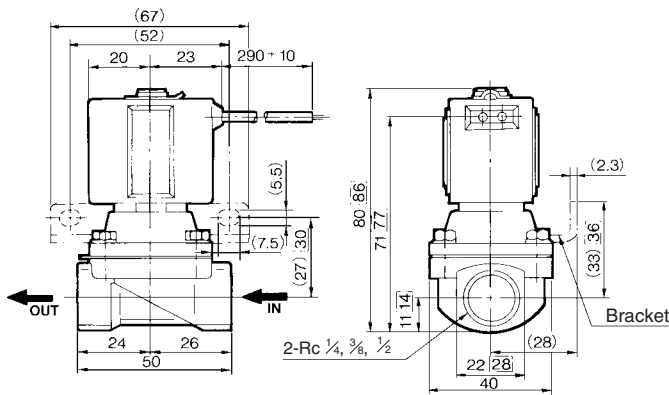
Pilot Operated 2 Port Solenoid Valve  
For Air, Gas, Water and Oil **Series VXD21/22/23**

The VX\* series will be revised shortly.

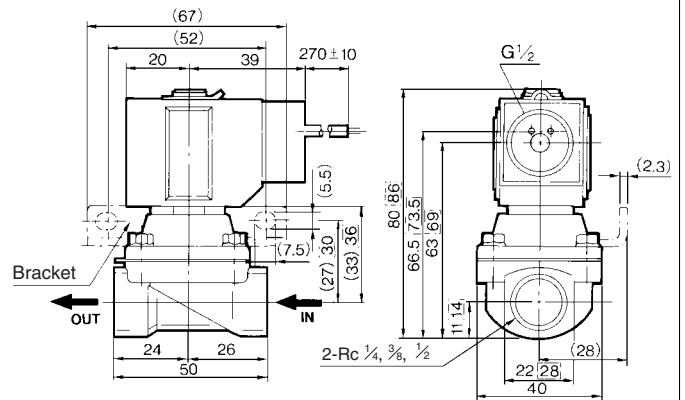
**Dimensions (Orifice Size: 10 mm $\phi$ )**

Normally closed: VXD2130

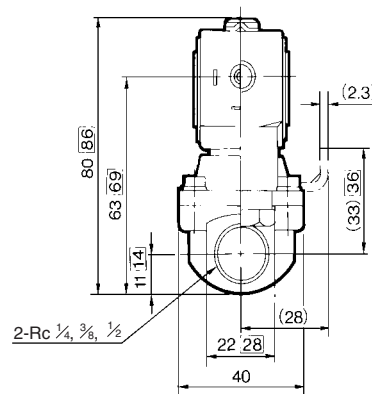
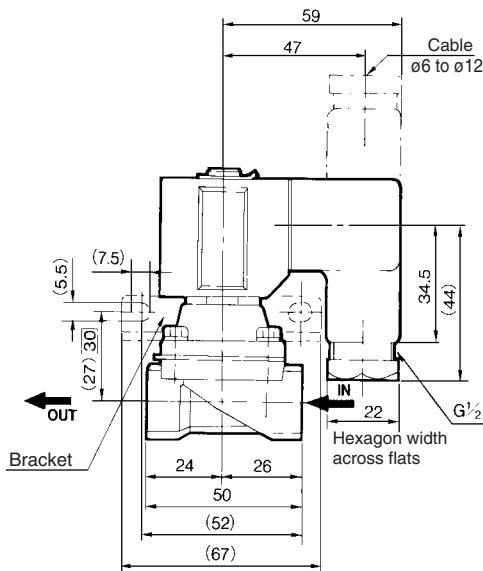
**Grommet: G**



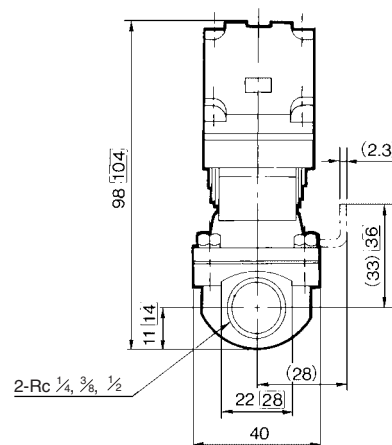
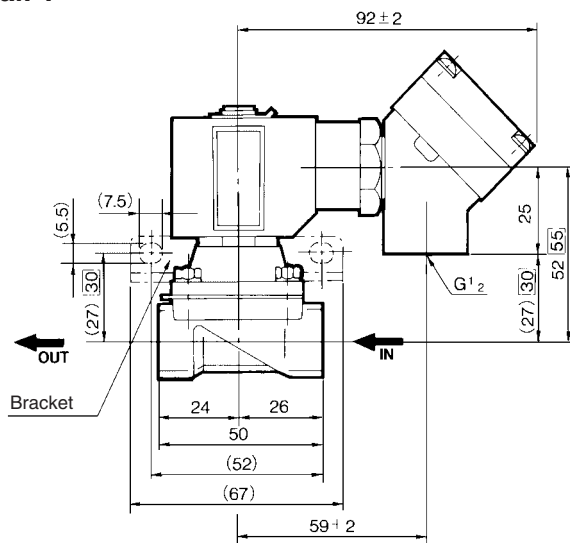
**Conduit: C**



**DIN terminal: D**



**Conduit terminal: T**

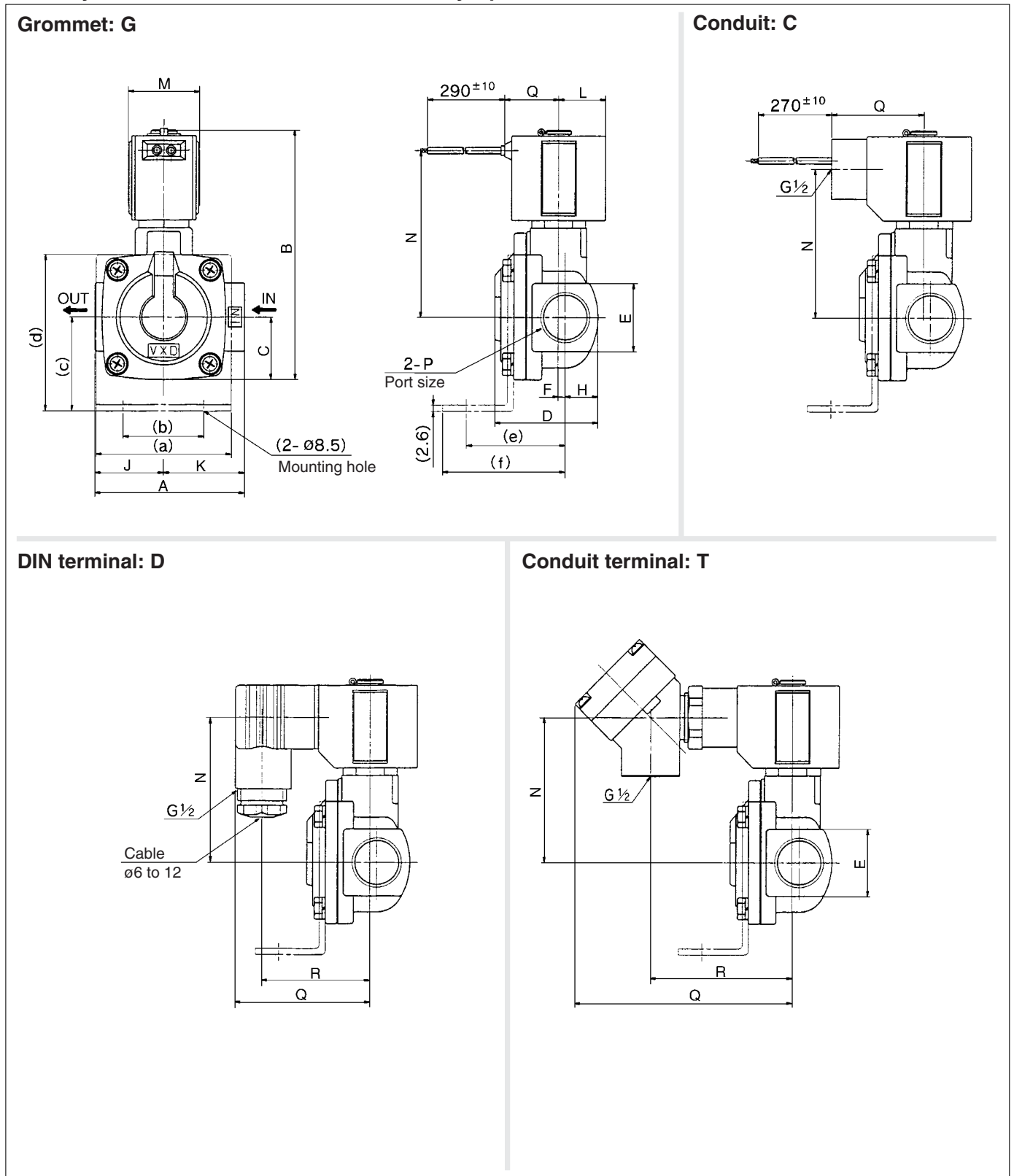


□: Port size Rc 1/2

- VC □
- VDW
- VQ
- VX2
- VX □**
- VX3
- VXA
- VN □
- LVC
- LVA
- LVH
- LVD
- LVQ
- LQ
- LVN
- T/  
TIL
- PA
- PAX
- PB

## Dimensions (Orifice Size: 15 mmø, 20 mmø, 25 mmø)

Normally Closed: VXD2140/2150/2160 Normally Open: VXD2142/2152/2262



| Model           |               | P Port size Rc | A  | B         | C    | D  | E  | F | H    | J  | K  | L  | M  | Electrical entry |      |         |      |              |    | Bracket          |         |    |    |    |    |      |    |    |    |
|-----------------|---------------|----------------|----|-----------|------|----|----|---|------|----|----|----|----|------------------|------|---------|------|--------------|----|------------------|---------|----|----|----|----|------|----|----|----|
|                 |               |                |    |           |      |    |    |   |      |    |    |    |    | Grommet          |      | Conduit |      | DIN terminal |    | Conduit terminal |         | a  | b  | c  | d  | e    | f  |    |    |
| Normally closed | Normally open |                |    |           |      |    |    |   |      |    |    |    |    | N                | Q    | N       | Q    | N            | Q  | N                | Q       | R  | a  | b  | c  | d    | e  | f  |    |
| VXD2140         | VXD2142       | 3/8, 1/2       | 63 | 104 (116) | 26   | 44 | 28 | 3 | 14   | 29 | 34 | 20 | 30 | 69 (76)          | 23   | 61      | 39   | 61 (68)      | 59 | 47               | 61 (68) | 92 | 59 | 57 | 34 | 39   | 65 | 42 | 52 |
| VXD2150         | VXD2152       | 3/4            | 80 | 118 (136) | 32.5 | 59 | 35 | 8 | 17.5 | 37 | 43 | 20 | 30 | 77 (84)          | 23   | 69      | 39   | 69 (76)      | 59 | 47               | 69 (76) | 92 | 59 | 74 | 51 | 45.5 | 78 | 46 | 56 |
| VXD2260         | VXD2262       | 1              | 90 | 133 (150) | 36.5 | 66 | 40 | 8 | 20   | 43 | 47 | 23 | 35 | 87 (97)          | 25.5 | 79      | 41.5 | 79 (89)      | 60 | 48               | 79 (89) | 95 | 62 | 81 | 58 | 49.5 | 86 | 56 | 66 |

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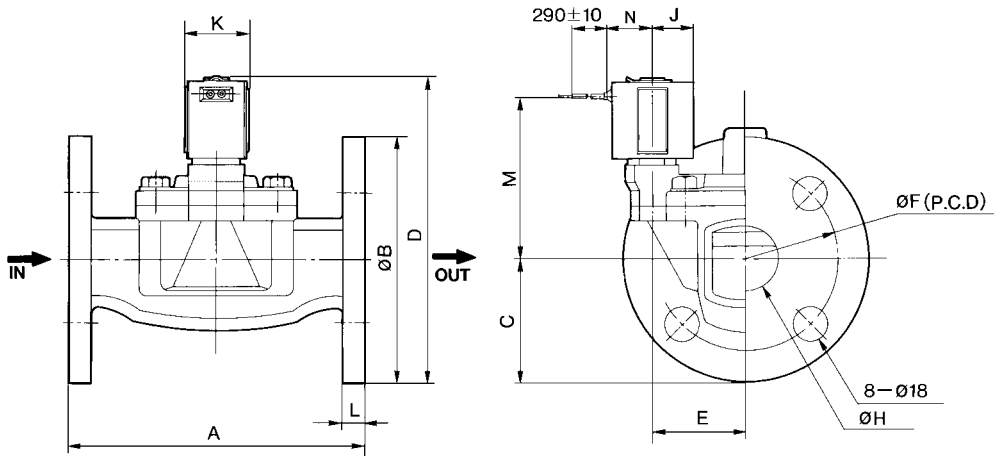
Pilot Operated 2 Port Solenoid Valve  
For Air, Gas, Water and Oil **Series VXD21/22/23**

The VX\* series will be revised shortly.

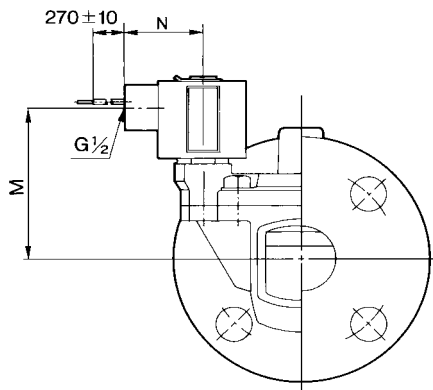
Dimensions (Orifice Size: 35 mmø, 40 mmø, 50 mmø)

Normally Closed: VXD2270/2380/2390 Normally Open: VXD2272/2382/2392

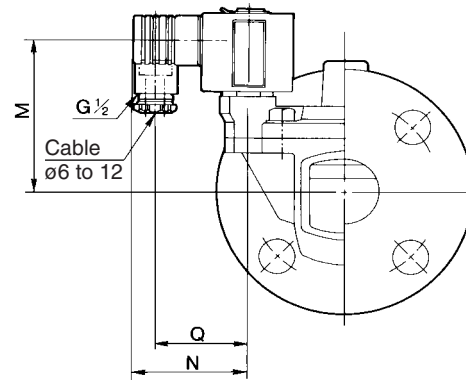
Grommet: G



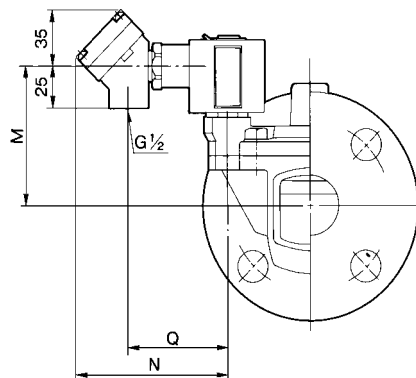
Conduit: C



DIN terminal: D



Conduit terminal: T



- VC
- VDW
- VQ
- VX2
- VX**
- VX3
- VXA
- VN
- LVC
- LVA
- LVH
- LVD
- LVQ
- LQ
- LVN
- TI/  
TIL
- PA
- PAX
- PB

| Model           |               | Applicable flange | A   | B   | C    | D         | E    | F   | H  | J    | K  | L  | Electrical entry |      |          |      |              |    |    |                  |    |    |
|-----------------|---------------|-------------------|-----|-----|------|-----------|------|-----|----|------|----|----|------------------|------|----------|------|--------------|----|----|------------------|----|----|
|                 |               |                   |     |     |      |           |      |     |    |      |    |    | Grommet          |      | Conduit  |      | DIN terminal |    |    | Conduit terminal |    |    |
| Normally closed | Normally open |                   |     |     |      |           |      |     |    |      |    |    | M                | N    | M        | N    | M            | N  | Q  | M                | N  | Q  |
| VXD2270         | VXD2272       | 32A               | 160 | 135 | 67.5 | 168 (185) | 51.5 | 100 | 36 | 23   | 35 | 12 | 90 (100)         | 25.5 | 82 (92)  | 41.5 | 82 (92)      | 60 | 48 | 82 (92)          | 95 | 62 |
| VXD2380         | VXD2382       | 40A               | 170 | 140 | 70   | 182 (197) | 54.5 | 105 | 42 | 25.5 | 40 | 14 | 101 (111)        | 28   | 93 (103) | 44.5 | 93 (103)     | 62 | 50 | 93 (103)         | 97 | 64 |
| VXD2390         | VXD2392       | 50A               | 180 | 155 | 77.5 | 194 (209) | 59   | 120 | 53 | 25.5 | 40 | 14 | 106 (116)        | 28   | 98 (108) | 44.5 | 98 (108)     | 62 | 50 | 98 (108)         | 97 | 64 |

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