

# QM/79, VSE4L4

## 3/2 Normally Closed Pilot Valve without coil

### CNOMO Interface

- 30mm CNOMO interface base
- Lightweight plastic base
- Range of manuaoverrides
- Operating pressure up to 16 bar (232 psig)
- Suitable for use with 22mm and 30mm coils
- Circlip or threaded diffuser coiretention



#### Technical features

##### Medium:

Compressed air, filtered, lubricated or non-lubricated

##### Operation:

Poppet Valve, directly actuated with spring return

##### Operating pressure:

0-16 bar (0-232 psig).  
See table overleaf

##### Orifice:

| Inlet Orifice  | Outlet Orifice  |
|----------------|-----------------|
| 1,0mm (0.04in) | 1,1mm (0.043in) |
| 1,6mm (0.06in) | 1,8mm (0.07in)  |

##### Port size:

Port 1 and Port 2: 3mm (0.12in)  
Port 3: M5

##### Mounting:

CNOMO Interface

##### Ambient/Media temperature:

Supply air.

-20° ... +90°C (-4 ... 194°F)

Ambient air

-20° ... +50°C (-4 ... +176°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

##### Materials:

Valve: Hostaform C9021 plastic base, stainless steel armature, tube and spring, zinc die cast yellow full passivated locking plate, nitrile rubber seals, zinc plated steel circlip, nylon 6.6 threaded diffuser

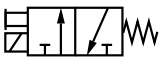
##### Weight (nominal):

47g (0.1lb)

##### Flow characteristics:

| Inlet Orifice  | C    | b    | A    | Cv   |
|----------------|------|------|------|------|
| 1.0mm (0.04in) | 0.10 | 0.50 | 0.41 | 0.03 |
| 1.6mm (0.06in) | 0.24 | 0.35 | 1.00 | 0.06 |

General Information

| Symbol                                                                           | Model                   |                         | CNOMO Pilot valve     |                               |                 | Coil Retention    | Coil Power Options                                           |                                        | Coil Match Code * | ISO Valve Part Number Ref ** |
|----------------------------------------------------------------------------------|-------------------------|-------------------------|-----------------------|-------------------------------|-----------------|-------------------|--------------------------------------------------------------|----------------------------------------|-------------------|------------------------------|
|                                                                                  | Model - Old part numebr | Model - New part numebr | Inlet Orifice mm (in) | Operating Pressure bar (psig) | Manual Operator |                   | 22mm (0.87in) Coils Industrial Standard or DIN 43650 Table B | 30mm (1.18in) Coils DIN 43650 Table A* |                   |                              |
|  | QM/79/NV/27 †           | VSE4L4D1-A3100          | 1.0 (0.04)            | 0 - 10 (145)                  | PBMO            | Circlip           | 2W, 2.5VA, 5VA                                               | 1.5W, 2VA                              | 1                 | 91                           |
|                                                                                  | QM/79/LV/27 †           | VSE4L4D1-A6100          | 1.0 (0.04)            | 0 - 10 (145)                  | SDMO            | Circlip           | 2W, 2.5VA, 5VA                                               | 1.5W, 2VA                              | 1                 | 90                           |
|                                                                                  | VSE4L4D1-E3100 †        | No part number change   | 1.0 (0.04)            | 0 - 10 (145)                  | PBMO            | Threaded diffuser | 2W, 2.5VA, 5VA                                               | 1.5W, 2VA                              | 1                 | 61                           |
|                                                                                  | VSE4L4D1-E6100          | No part number change   | 1.0 (0.04)            | 0 - 10 (145)                  | SDMO            | Threaded diffuser | 2W, 2.5VA, 5VA                                               | 1.5W, 2VA                              | 1                 | 60                           |
|                                                                                  | VSE4L4D1-E1100          | No part number change   | 1.0 (0.04)            | 0 - 10 (145)                  | NIL             | Threaded diffuser | 2W, 2.5VA, 5VA                                               | 1.5W, 2VA                              | 1                 | 63                           |
|                                                                                  | VSE4L4D1-E5100          | No part number change   | 1.0 (0.04)            | 0 - 10 (145)                  | EPBMO           | Threaded diffuser | 2W, 2.5VA, 5VA                                               | 1.5W, 2VA                              | 1                 | 62                           |
|                                                                                  | VSE4L4G1-E3200          | 90-16388                | 1.6 (0.06)            | 0 - 10 (145)                  | PBMO            | Threaded diffuser | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 66                           |
|                                                                                  | VSE4L4G1-E6200          | No part number change   | 1.6 (0.06)            | 0 - 10 (145)                  | SDMO            | Threaded diffuser | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 65                           |
|                                                                                  | VSE4L4D1-A3200          | No part number change   | 1.0 (0.04)            | 0 - 16 (232)                  | PBMO            | Circlip           | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 51                           |
|                                                                                  | VSE4L4D1-A6200          | No part number change   | 1.0 (0.04)            | 0 - 16 (232)                  | SDMO            | Circlip           | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 50                           |
|                                                                                  | VSE4L4D1-A5200          | No part number change   | 1.0 (0.04)            | 0 - 16 (232)                  | EPBMO           | Circlip           | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 52                           |
|                                                                                  | VSE4L4G1-A3300          | No part number change   | 1.6 (0.06)            | 0 - 16 (232)                  | PBMO            | Circlip           | -                                                            | 7.5W DC only                           | 3                 | 56                           |
|                                                                                  | VSE4L4G1-A6300          | No part number change   | 1.6 (0.06)            | 0 - 16 (232)                  | SDMO            | Circlip           | -                                                            | 7.5W DC only                           | 3                 | 55                           |
|                                                                                  | VSE4L4D1-E3200 †        | No part number change   | 1.0 (0.04)            | 0 - 16 (232)                  | PBMO            | Threaded diffuser | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 81                           |
|                                                                                  | VSE4L4D1-E6200          | No part number change   | 1.0 (0.04)            | 0 - 16 (232)                  | SDMO            | Threaded diffuser | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 80                           |
|                                                                                  | VSE4L4D1-E1200          | No part number change   | 1.0 (0.04)            | 0 - 16 (232)                  | NIL             | Threaded diffuser | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 83                           |
|                                                                                  | VSE4L4D1-E5200          | No part number change   | 1.0 (0.04)            | 0 - 16 (232)                  | EPBMO           | Threaded diffuser | 6W, 7.5W, 8VA                                                | 4W, 8VA                                | 2                 | 82                           |
|                                                                                  | VSE4L4G1-E3300          | No part number change   | 1.6 (0.06)            | 0 - 16 (232)                  | PBMO            | Threaded diffuser | -                                                            | 7.5W DC only                           | 3                 | 86                           |

\* Use this code to help you select the correct coil for your chosen pilot valve from the Coils Data Sheet No. 5.4.023

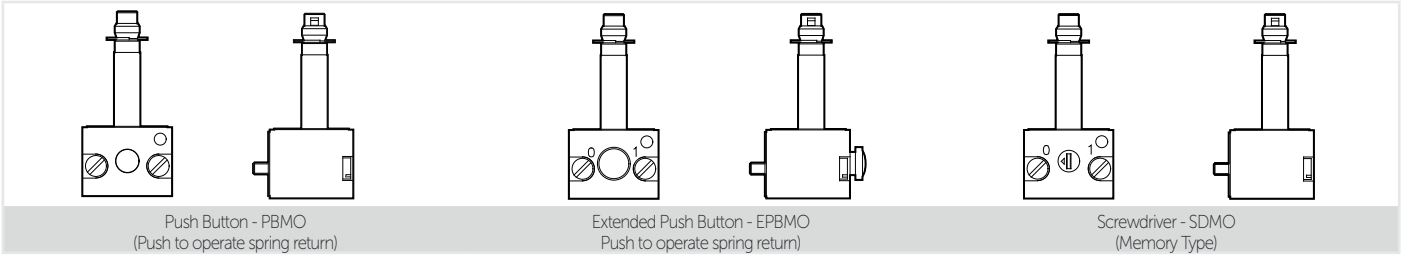
\*\* Refers to characters 13 and 14 in ISO★STAR and AUTO★STAR part numbers which denote the CNOMO pilot valve option. e.g.SXE 9573-Z70-81.

Please refer to data sheets 5.4.185 and 5.4.186 for further information.

† Standard pilot valves for ISO★STAR, AUTO★STAR and UM/22000 spool valves.

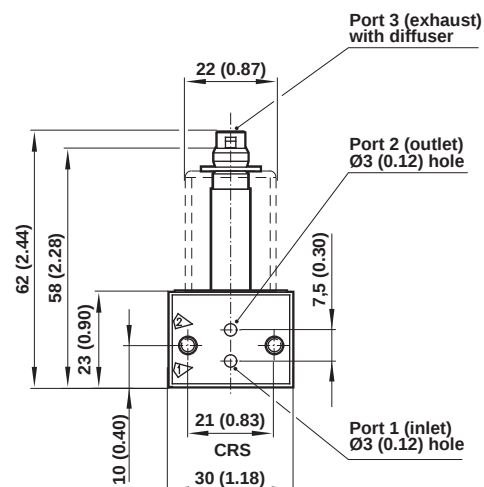
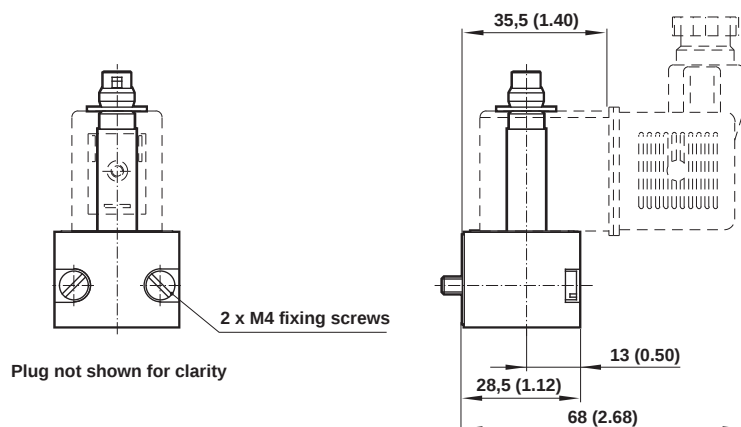
- Notes
- 1. 16 bar CNOMO valves with 1.6mm orifice can only be used with DC coils.
  - 2. Refer to data sheet 5.4.023 for technical data on the 22mm and 30mm coil options.

Manual Operator Options (available with both circlip and threaded diffuser models)



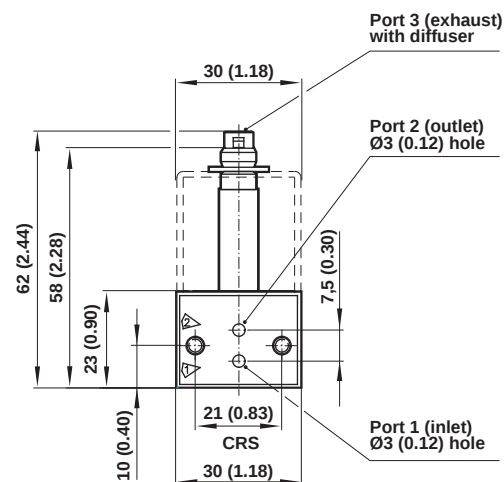
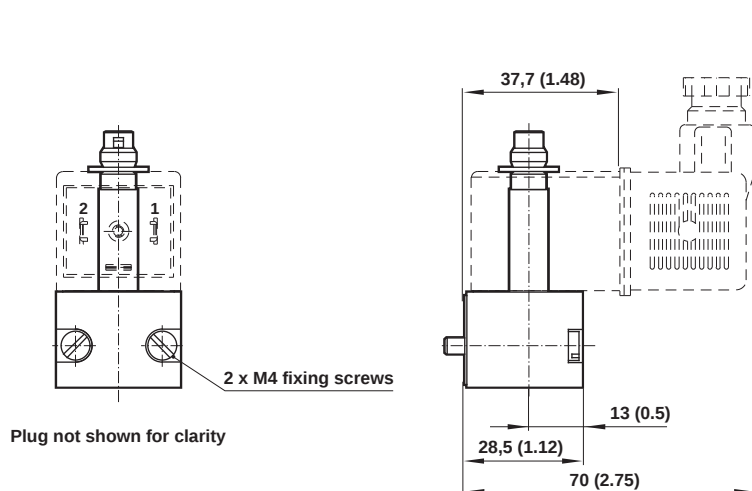
## QM/79, VSE4L4 Valve with circlip retention fitted with 22mm (0.87 in) Coil

Dimensions in mm  
Projection/First angle



Coil and connector plug shown for installation purposes only

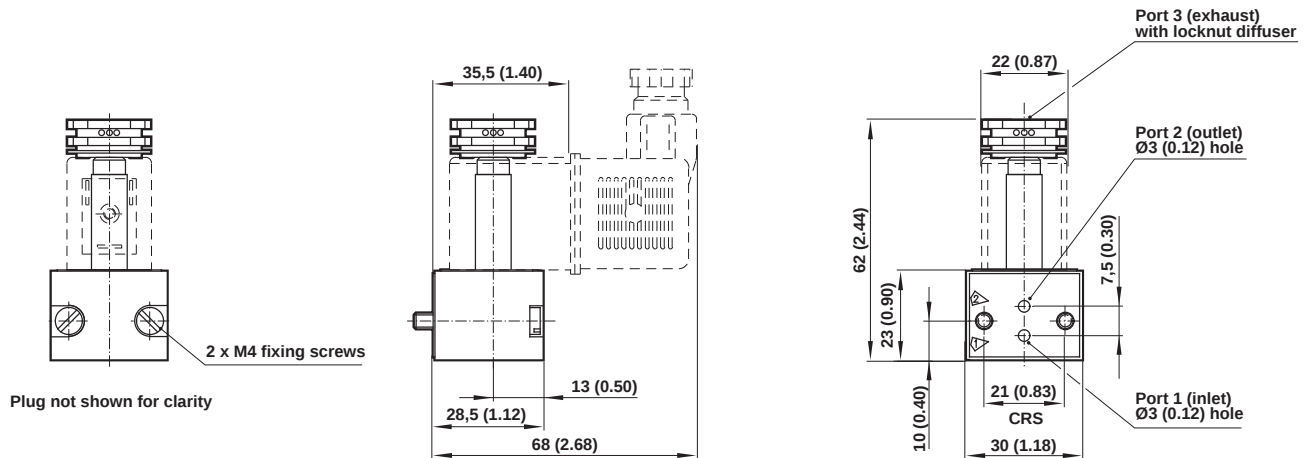
## QM/79, VSE4L4 Valve with circlip retention fitted with 30mm (1.18 in) Coil



Coil and connector plug shown for installation purposes only

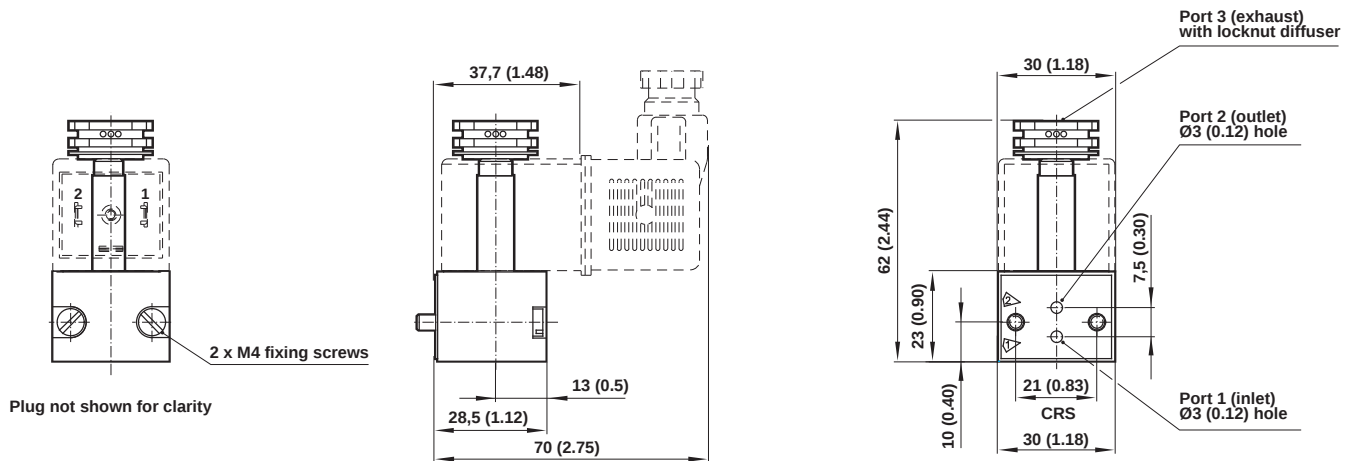
## QM/79, VSE4L4 Valve with threaded diffuser retention fitted with 22mm (0.87 in) Coil

Dimensions in mm  
Projection/First angle



Coil and connector plug shown for installation purposes only

## QM/79, VSE4L4 Valve with threaded diffuser retention fitted with 30mm (1.18 in) Coil



Coil and connector plug shown for installation purposes only

### Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under

#### »Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.