

## VM15 series, 2 x 3/2, 5/2 or 5/3 Valve islands

- Valve slices 2 x 3/2, 5/2 and 5/3 with integral push-in fittings Ø 6, 8 and 10 mm
- Multipole or individually wired for installation flexibility
- Compact and lightweight, integral push in fittings
- High flow from 15 mm valve width
- To configure and order a Valve Island visit – <https://www.norgren.com/en/support/configurators/valve-island-configurators>



### Technical features

#### Medium:

Compressed air, filtered, lubricated and non-lubricated

#### Operation:

Spool valve indirectly actuated

#### Port sizes:

Ports 1, 3 & 5: Ø 10 & 12 mm  
Ports 2 & 4: Ø 6, 8 & 10 mm  
Ports 12/14 & 82/84: Ø 6 mm push-in fittings  
Imperial versions also available

#### Flow:

| Function | Cv   | l/min |
|----------|------|-------|
| 5/2      | 1,01 | 1000  |
| 2x3/2    | 0,97 | 965   |
| 5/3      | 0,91 | 900   |

#### Degree of protection:

Individually wired: IP40  
Multipole: IP65

#### Ambient/Media temperature:

-5 ... +50°C (+23 ... +122 °F)  
Air supply must be dry enough to avoid ice formation at temperatures below 2°C (+35°F).

#### Materials:

Body, end plates: engineered PPA co-polymer  
Spool: aluminium  
Seals: NBR

### Electrical details

|                   |                  |
|-------------------|------------------|
| Voltage           | 24 V d.c. 1,2 W* |
| Surge suppression | Flywheel diode   |
| Indication        | Yellow LED       |

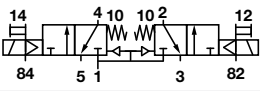
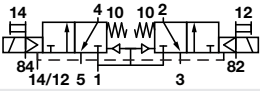
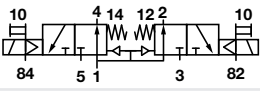
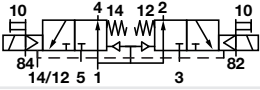
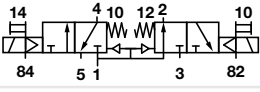
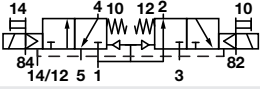
\* 12 V d.c. also available.  
Please consult our Technical Service.

### Solenoids

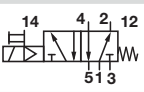
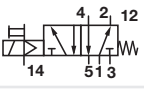
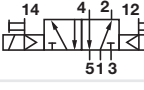
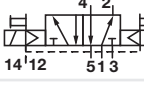
|                   |         |
|-------------------|---------|
| Voltage tolerance | ± 10%   |
| Rating            | 100% ED |

## Technical data

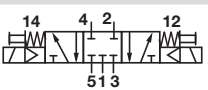
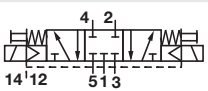
### 2 x 3/2 Double solenoid actuated valves

| Symbol                                                                           | Function      | Actuation       | Pilot supply | Manual override       | Operating pressure (bar) | Pilot pressure (bar) | Weight (kg) | Model          |
|----------------------------------------------------------------------------------|---------------|-----------------|--------------|-----------------------|--------------------------|----------------------|-------------|----------------|
|  | 2 x 3/2 NC    | Solenoid/spring | Internal     | Push and turn to lock | 3 ... 8                  | –                    | 0,10        | VM15*A11AB213B |
|                                                                                  | 2 x 3/2 NC    | Solenoid/spring | Internal     | Push only             | 3 ... 8                  | –                    | 0,10        | VM15*A11AB313B |
|  | 2 x 3/2 NC    | Solenoid/spring | External     | Push and turn to lock | -0,9 ... 8               | 3 ... 8              | 0,10        | VM15*A22AB213B |
|                                                                                  | 2 x 3/2 NC    | Solenoid/spring | External     | Push only             | -0,9 ... 8               | 3 ... 8              | 0,10        | VM15*A22AB313B |
|  | 2 x 3/2 NO    | Solenoid/spring | Internal     | Push and turn to lock | 3 ... 8                  | –                    | 0,10        | VM15*B11AB213B |
|                                                                                  | 2 x 3/2 NO    | Solenoid/spring | Internal     | Push only             | 3 ... 8                  | –                    | 0,10        | VM15*B11AB313B |
|  | 2 x 3/2 NO    | Solenoid/spring | External     | Push and turn to lock | -0,9 ... 8               | 3 ... 8              | 0,10        | VM15*B22AB213B |
|                                                                                  | 2 x 3/2 NO    | Solenoid/spring | External     | Push only             | -0,9 ... 8               | 3 ... 8              | 0,10        | VM15*B22AB313B |
|  | 2 x 3/2 NO/NC | Solenoid/spring | Internal     | Push and turn to lock | 3 ... 8                  | –                    | 0,10        | VM15*C11AB213B |
|                                                                                  | 2 x 3/2 NO/NC | Solenoid/spring | Internal     | Push only             | 3 ... 8                  | –                    | 0,10        | VM15*C11AB313B |
|  | 2 x 3/2 NO/NC | Solenoid/spring | External     | Push and turn to lock | -0,9 ... 8               | 3 ... 8              | 0,10        | VM15*C22AB213B |
|                                                                                  | 2 x 3/2 NO/NC | Solenoid/spring | External     | Push only             | -0,9 ... 8               | 3 ... 8              | 0,10        | VM15*C22AB313B |

### 5/2 Single and double solenoid actuated valves

| Symbol                                                                             | Function | Actuation         | Pilot supply | Manual override       | Operating pressure (bar) | Pilot pressure (bar) | Weight (kg) | Model          |
|------------------------------------------------------------------------------------|----------|-------------------|--------------|-----------------------|--------------------------|----------------------|-------------|----------------|
|  | 5/2      | Solenoid/spring   | Internal     | Push and turn to lock | 3 ... 8                  | –                    | 0,09        | VM15*517AB213B |
|                                                                                    | 5/2      | Solenoid/spring   | Internal     | Push only             | 3 ... 8                  | –                    | 0,09        | VM15*517AB313B |
|  | 5/2      | Solenoid/spring   | External     | Push and turn to lock | -0,9 ... 8               | 3 ... 8              | 0,09        | VM15*527AB213B |
|                                                                                    | 5/2      | Solenoid/spring   | External     | Push only             | -0,9 ... 8               | 3 ... 8              | 0,09        | VM15*527AB313B |
|  | 5/2      | Solenoid/solenoid | Internal     | Push and turn to lock | 3 ... 8                  | –                    | 0,10        | VM15*511AB213B |
|                                                                                    | 5/2      | Solenoid/solenoid | Internal     | Push only             | 3 ... 8                  | –                    | 0,10        | VM15*511AB313B |
|  | 5/2      | Solenoid/solenoid | External     | Push and turn to lock | -0,9 ... 8               | 2 ... 8              | 0,10        | VM15*522AB213B |
|                                                                                    | 5/2      | Solenoid/solenoid | External     | Push only             | -0,9 ... 8               | 2 ... 8              | 0,10        | VM15*522AB313B |

### 5/3 Double solenoid actuated valves

| Symbol                                                                             | Function | Actuation         | Pilot supply | Manual override       | Operating pressure (bar) | Pilot pressure (bar) | Weight (kg) | Model          |
|------------------------------------------------------------------------------------|----------|-------------------|--------------|-----------------------|--------------------------|----------------------|-------------|----------------|
|  | 5/3 APB  | Solenoid/solenoid | Internal     | Push and turn to lock | 3 ... 8                  | –                    | 0,10        | VM15*611AB213B |
|                                                                                    | 5/3 APB  | Solenoid/solenoid | Internal     | Push only             | 3 ... 8                  | –                    | 0,10        | VM15*611AB313B |
|  | 5/3 APB  | Solenoid/solenoid | External     | Push and turn to lock | 0,9 ... 8                | 3 ... 8              | 0,10        | VM15*622AB213B |
|                                                                                    | 5/3 APB  | Solenoid/solenoid | External     | Push only             | 0,9 ... 8                | 3 ... 8              | 0,10        | VM15*622AB313B |

\* For selection of port sizes please see page 3

Note: For 5/3 COE please use 2 x 3/2 NC. For 5/3 COP please use 2 x 3/2 NO

APB = All Ports Blocked COE = Centre Open Exhaust COP = Centre Open Pressure

## Option selector

VM15★★★★ AB★13B

| Tube size              | Substitute |
|------------------------|------------|
| 6 mm PIF               | 6          |
| 8 mm PIF               | 8          |
| 10 mm PIF              | Y          |
| Valve function         | Substitute |
| 5/2                    | 5          |
| 5/3 APB                | 6          |
| 2 x 3/2 NC and 5/3 COE | A          |
| 2 x 3/2 NO and 5/3 COP | B          |
| 2 x 3/2 NC and NO      | C          |

| Manual override                    | Substitute |
|------------------------------------|------------|
| Turn to lock                       | 2          |
| Push only                          | 3          |
| Actuation/pilot supply             | Substitute |
| Solenoid/solenoid internal pilot   | 11         |
| Solenoid/spring internal pilot *1) | 17         |
| Solenoid/solenoid external pilot   | 22         |
| Solenoid/spring external pilot *1) | 27         |

### Note:

For 5/3 COE and COP use

2 x 3/2 APB = All Ports Blocked

COE = Centre Open Exhaust

COP = Centre Open Pressure

\*1) Can only be used with 5/2 valve

## Accessories

### Valve blanking station



Page 6

VM156517AQ0300

### Port blanking station



Page 6

VM156517AQ0301 (Port 1 blanked)

VM156517AQ0302 (Ports 3 & 5 blanked)

VM156517AQ0303 (Ports 1, 3 & 5 blanked)

### Intermediate supply and exhaust manifold (ISEM)



Page 5

VM156517AQ0304 (Feed right)

VM156517AQ0305 (Feed left)

VM156517AQ0306 (Feed right and left)

### DIN Rail fixing kit



V12022-K30

### DIN rail



V10009-C00 (1 m)

### Label cover kit



V12016-K30 (4 Station)

V12016-K34 (12 Station)

V12016-K32 (8 Station)

### Labels



V12033-L01 (write and seal label)

V12034-L01 (paper label)

### Pressure switch for pilot ports 12 and 14



Page 11

VM106517AQ0806 (6 mm)

### Silencer



Page 11

T45P0006 (6 mm)

T45P0008 (8 mm)

T45P0010 (10 mm)

T45P0012 (12 mm)

### Plug



Page 11

C00040600 (6 mm)

C00040800 (8 mm)

C00041000 (10 mm)

C00041200 (12 mm)

### D Sub-connector 25 pin, IP65



Page 9

V11569-E01 (1 m)

V11569-E03 (3 m)

V11569-E05 (5 m)

### D Sub-connector 44 pin, IP65



Page 9

V11570-E01 (1 m)

V11570-E03 (3 m)

V11570-E05 (5 m)

### D Sub-connector 25 pin 90°, IP65



Page 10

V12086-E01 (1 m)

V12086-E03 (3 m)

V12086-E05 (5 m)

### D Sub-connector 44 pin 90°, IP65



Page 10

V12088-E01 (1 m)

V12088-E03 (3 m)

V12088-E05 (5 m)

### Stecker, 2-polig IP40



V11556-E10 (1 m)

V11556-E03 (0,3 m)

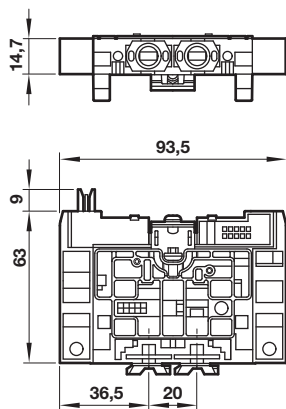
## Valve slices 2 x 3/2, 5/2 & 5/3 with integral push-in fittings - Ø 6, 8 or 10 mm

### Dimensions

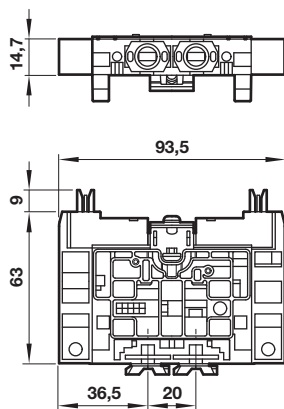
Dimensions in mm  
Projection/First angle



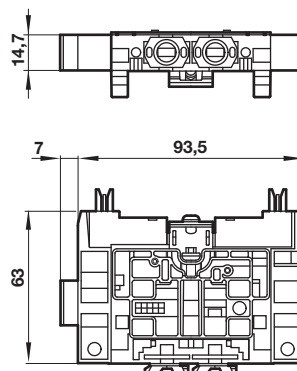
#### Single solenoid



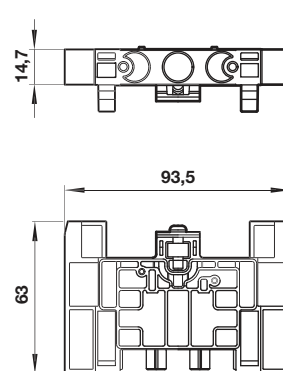
#### Double solenoid



#### 5/3 APB, double solenoid



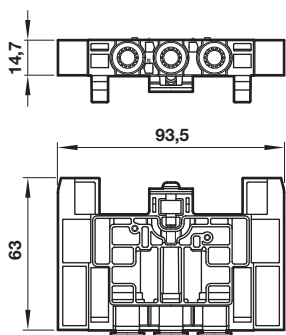
#### Blanking plates



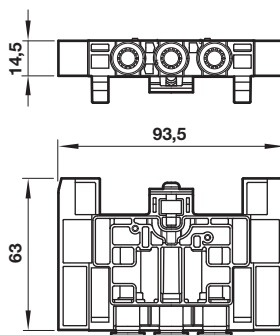
| Valve blanking station | Port blanking station | Short code             | Weight (kg) |
|------------------------|-----------------------|------------------------|-------------|
| VM156517AQ0300         | VM156517AQ0301        | Port 1 blanked         | 0,057       |
|                        | VM156517AQ0302        | Ports 3 & 5 blanked    | 0,057       |
|                        | VM156517AQ0303        | Ports 1, 3 & 5 blanked | 0,057       |

## Intermediate supply and exhaust manifold (ISEM)

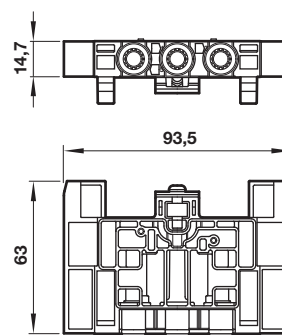
### VM156517AQ0304



### VM156517AQ0305



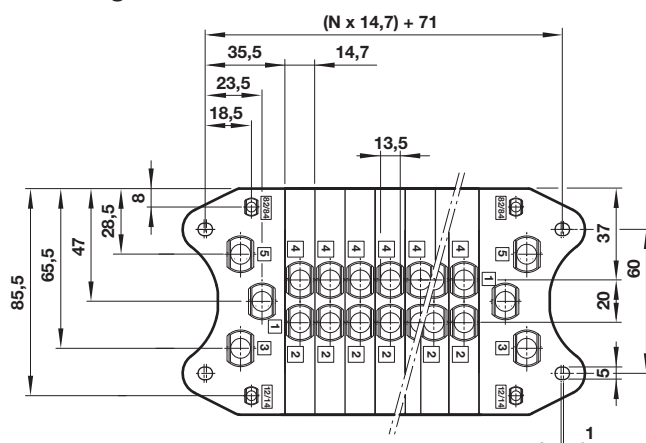
### VM156517AQ0306



| ISEM              | Push IN fittings | Weight (kg) | Model          |
|-------------------|------------------|-------------|----------------|
| Feed right        | Ø 8 mm           | 0,064       | VM156517AQ0304 |
| Feed left         | Ø 8 mm           | 0,064       | VM156517AQ0305 |
| Feed right & left | Ø 8 mm           | 0,064       | VM156517AQ0306 |

## Port connections and mountings

Dimensions in mm  
Projection/First angle



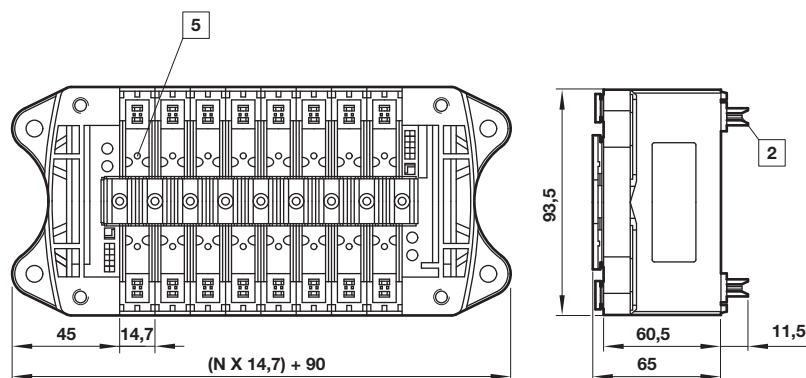
N = number of stations

| Description                    | Ports 1,3 & 5<br>Tube outside Ø | Ports 12/14 & 82/84<br>Tube outside Ø | Ports 2 & 4<br>Tube outside Ø | Weight<br>(kg) | Model          |
|--------------------------------|---------------------------------|---------------------------------------|-------------------------------|----------------|----------------|
| End plate kit - feed both ends | 12                              | 6                                     | 6, 8 or 10                    | 0,30           | VM156517AQ010Z |
| End plate kit - feed both ends | 10                              | 6                                     | 6, 8 or 10                    | 0,30           | VM156517AQ010Y |
| End plate kit - left blocked   | 12                              | 6                                     | 6, 8 or 10                    | 0,30           | VM156517AQ011Z |
| End plate kit - left blocked   | 10                              | 6                                     | 6, 8 or 10                    | 0,30           | VM156517AQ011Y |
| End plate kit - right blocked  | 12                              | 6                                     | 6, 8 or 10                    | 0,30           | VM156517AQ012Z |
| End plate kit - right blocked  | 10                              | 6                                     | 6, 8 or 10                    | 0,30           | VM156517AQ012Y |

\*Note: Ports 82/84 (solenoid pilot exhausts) should not be plugged. A filter or silencer can be fitted or the air can be piped away with tubing."

## Modular assembly

### Individually wired IP40



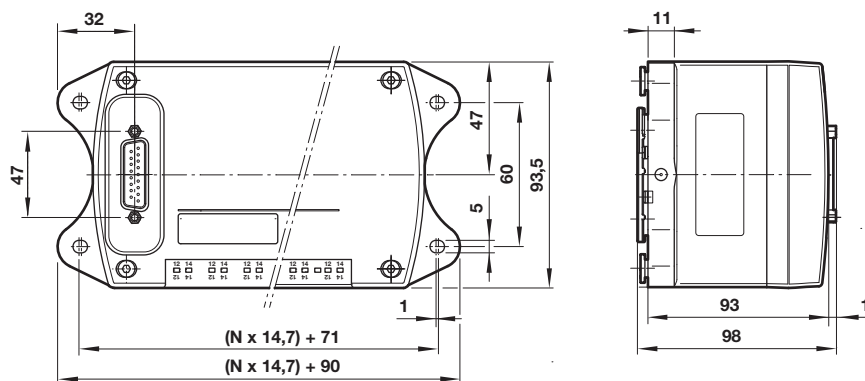
2 2 pin connector interface  
5 Manual override  
N = number of stations

| Individually wired | No. of stations | Max. no. of coils | Weight (kg)* |
|--------------------|-----------------|-------------------|--------------|
| 2 pin connector    | 2 ... 20        | 40                | 0,170        |

\* kg + valves weight

## Multipole IP65

Dimensions in mm  
Projection/First angle

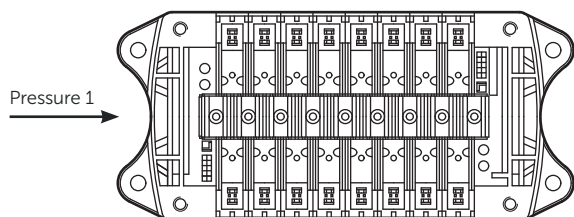


N = number of stations

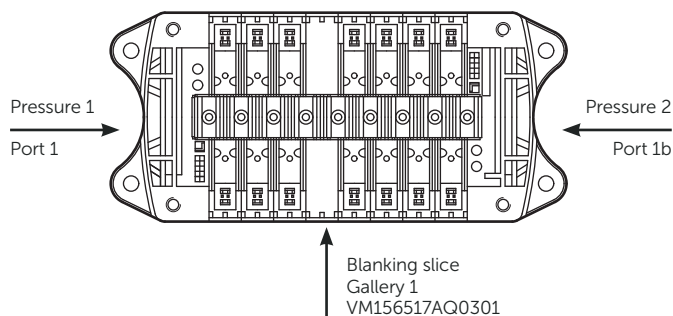
| Multipole        | No. of stations | Model -ve common | Max. no. coils |
|------------------|-----------------|------------------|----------------|
| 25 Pin connector | 4               | VM156517AQ0404   | 8              |
| 25 Pin connector | 6               | VM156517AQ0406   | 12             |
| 25 Pin connector | 8               | VM156517AQ0408   | 16             |
| 25 Pin connector | 10              | VM156517AQ0410   | 20             |
| 25 Pin connector | 12              | VM156517AQ0412   | 24             |
| 44 Pin connector | 16              | VM156517AQ0516   | 32             |

## Multi-pressure options

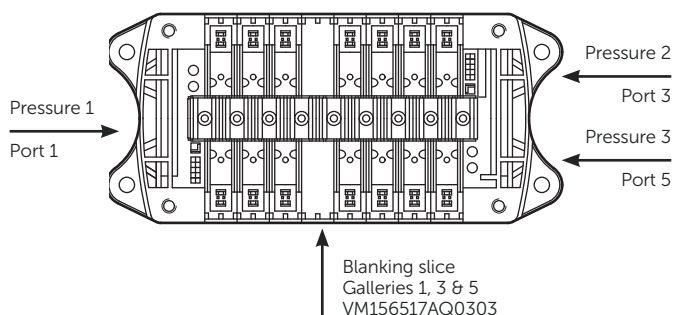
### Single pressure



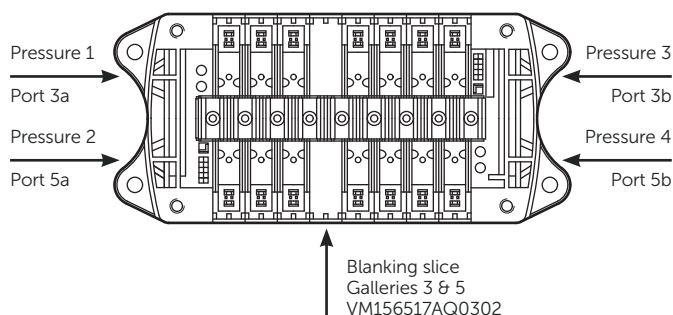
### Two pressure



### Three pressure



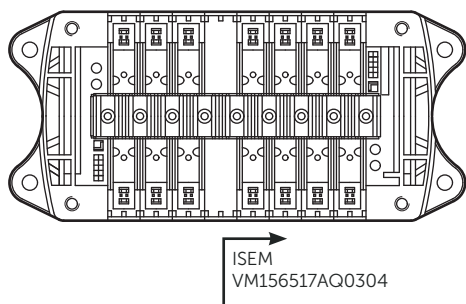
### Four pressure



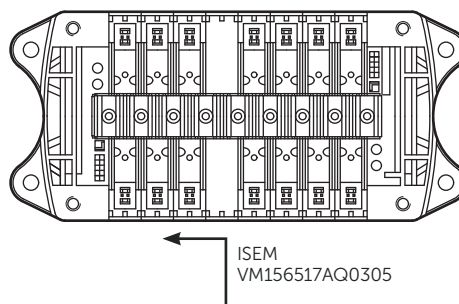
Please Note - the 3 & 4 Pressure islands shown above are achieved by using externally piloted 2x3/2 valves and reverse porting via ports 3 & 5. Please note that when 2x3/2 valves are reverse ported the functions are also reversed i.e. N/C becomes N/O and N/O becomes N/C

## Multi-pressure options – Intermediate Supply Exhaust Manifolds Single pressure

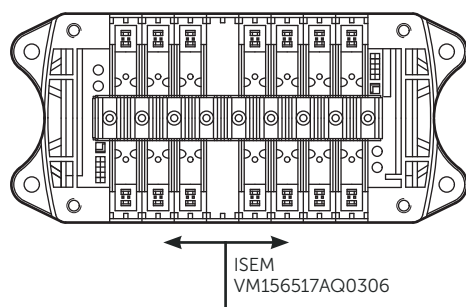
### Feed right



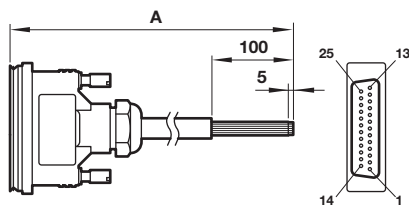
### Feed left



### Feed left and feed right



## D sub-connector 25 pin (IP65)



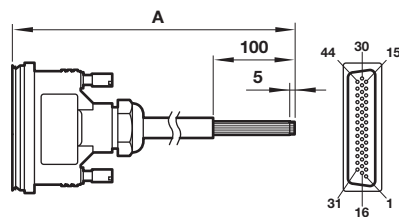
| A   | Model      |
|-----|------------|
| 1 m | V11569-E01 |
| 3 m | V11569-E03 |
| 5 m | V11569-E05 |

| Pin no. | Wire colour  | Socket        | Pilot | Station |
|---------|--------------|---------------|-------|---------|
| 1       | White        | Solenoid 1-a  | 14    | 1       |
| 2       | Brown        | Solenoid 2-a  | 14    | 2       |
| 3       | Green        | Solenoid 3-a  | 14    | 3       |
| 4       | Yellow       | Solenoid 4-a  | 14    | 4       |
| 5       | Grey         | Solenoid 5-a  | 14    | 5       |
| 6       | Pink         | Solenoid 6-a  | 14    | 6       |
| 7       | Blue         | Solenoid 7-a  | 14    | 7       |
| 8       | Red          | Solenoid 8-a  | 14    | 8       |
| 9       | Black        | Solenoid 9-a  | 14    | 9       |
| 10      | Violet       | Solenoid 10-a | 14    | 10      |
| 11      | Grey/Pink    | Solenoid 11-a | 14    | 11      |
| 12      | Red/Blue     | Solenoid 12-a | 14    | 12      |
| 13      | White/Green  | Common-Ve     |       | -       |
| 14      | Brown/Green  | Solenoid 1-b  | 12    | 1       |
| 15      | White/Yellow | Solenoid 2-b  | 12    | 2       |
| 16      | Yellow/Brown | Solenoid 3-b  | 12    | 3       |
| 17      | White/Grey   | Solenoid 4-b  | 12    | 4       |
| 18      | Grey/Brown   | Solenoid 5-b  | 12    | 5       |
| 19      | White/Pink   | Solenoid 6-b  | 12    | 6       |
| 20      | Pink/Brown   | Solenoid 7-b  | 12    | 7       |
| 21      | White/Blue   | Solenoid 8-b  | 12    | 8       |
| 22      | Brown/Blue   | Solenoid 9-b  | 12    | 9       |
| 23      | White/Red    | Solenoid 10-b | 12    | 10      |
| 24      | Brown/Red    | Solenoid 11-b | 12    | 11      |
| 25      | White/Black  | Solenoid 12-b | 12    | 12      |

Note: Conforms to DIN 47100

## D Sub-connector 44 pin (IP65)

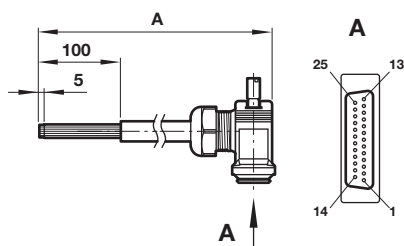
Dimensions in mm  
Projection/First angle



| A   | Model      |
|-----|------------|
| 1 m | V11570-E01 |
| 3 m | V11570-E03 |
| 5 m | V11570-E05 |

| Pin no. | Wire colour            | Socket        | Pilot | Station |
|---------|------------------------|---------------|-------|---------|
| 1       | White                  | Solenoid 1-a  | 14    | 1       |
| 2       | Brown                  | Solenoid 2-a  | 14    | 2       |
| 3       | Green                  | Solenoid 3-a  | 14    | 3       |
| 4       | Yellow                 | Solenoid 4-a  | 14    | 4       |
| 5       | Grey                   | Solenoid 5-a  | 14    | 5       |
| 6       | Pink                   | Solenoid 6-a  | 14    | 6       |
| 7       | Blue                   | Solenoid 7-a  | 14    | 7       |
| 8       | Red                    | Solenoid 8-a  | 14    | 8       |
| 9       | Black                  | Solenoid 9-a  | 14    | 9       |
| 10      | Violet                 | Solenoid 10-a | 14    | 10      |
| 11      | Grey/Pink              | Solenoid 11-a | 14    | 11      |
| 12      | Red/Blue               | Solenoid 12-a | 14    | 12      |
| 13      | White/Green            | Solenoid 13-a | 14    | 13      |
| 14      | Brown/Green            | Solenoid 14-a | 14    | 14      |
| 15      | White/Yellow           | Solenoid 15-a | 14    | 15      |
| 16      | Yellow/Brown           | Solenoid 1-b  | 12    | 1       |
| 17      | White/Grey             | Solenoid 2-b  | 12    | 2       |
| 18      | Grey/Brown             | Solenoid 3-b  | 12    | 3       |
| 19      | White/Pink             | Solenoid 4-b  | 12    | 4       |
| 20      | Pink/Brown             | Solenoid 5-b  | 12    | 5       |
| 21      | White/Blue             | Solenoid 6-b  | 12    | 6       |
| 22      | Brown/Blue             | Solenoid 7-b  | 12    | 7       |
| 23      | White/Red              | Solenoid 8-b  | 12    | 8       |
| 24      | Brown/Red              | Solenoid 9-b  | 12    | 9       |
| 25      | White/Black            | Solenoid 10-b | 12    | 10      |
| 26      | Brown/Black            | Solenoid 11-b | 12    | 11      |
| 27      | Grey/Green             | Solenoid 12-b | 12    | 12      |
| 28      | Yellow/Grey            | Solenoid 13-b | 12    | 13      |
| 29      | Pink/Green             | Solenoid 14-b | 12    | 14      |
| 30      | Yellow/Pink            | Solenoid 15-b | 12    | 15      |
| 31      | Green/Blue             | Solenoid 16-a | 14    | 16      |
| 32      | Yellow/Blue            | Solenoid 16-b | 12    | 16      |
| 33      | —                      | Not used      | —     | —       |
| 34      | —                      | Not used      | —     | —       |
| 35      | —                      | Not used      | —     | —       |
| 36      | —                      | Not used      | —     | —       |
| 37      | —                      | Not used      | —     | —       |
| 38      | —                      | Not used      | —     | —       |
| 39      | —                      | Not used      | —     | —       |
| 40      | —                      | Not used      | —     | —       |
| 41      | —                      | Not used      | —     | —       |
| 42      | —                      | Not used      | —     | —       |
| 43      | —                      | Not used      | —     | —       |
| 44      | Red/Black Yellow/Black | Common -Ve    | —     | —       |

## D Sub-connector 25 pin 90° (IP65)

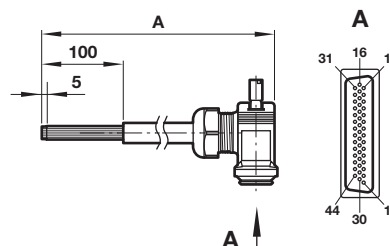


| A   | Model      |
|-----|------------|
| 1 m | V12086-E01 |
| 3 m | V12086-E03 |
| 5 m | V12086-E05 |

| Pin no. | Wire colour  | Socket        | Pilot | Station |
|---------|--------------|---------------|-------|---------|
| 1       | White        | Solenoid 1-a  | 14    | 1       |
| 2       | Brown        | Solenoid 2-a  | 14    | 2       |
| 3       | Green        | Solenoid 3-a  | 14    | 3       |
| 4       | Yellow       | Solenoid 4-a  | 14    | 4       |
| 5       | Grey         | Solenoid 5-a  | 14    | 5       |
| 6       | Pink         | Solenoid 6-a  | 14    | 6       |
| 7       | Blue         | Solenoid 7-a  | 14    | 7       |
| 8       | Red          | Solenoid 8-a  | 14    | 8       |
| 9       | Black        | Solenoid 9-a  | 14    | 9       |
| 10      | Violet       | Solenoid 10-a | 14    | 10      |
| 11      | Grey/Pink    | Solenoid 11-a | 14    | 11      |
| 12      | Red/Blue     | Solenoid 12-a | 14    | 12      |
| 13      | White/Green  | Common-Ve     |       | -       |
| 14      | Brown/Green  | Solenoid 1-b  | 12    | 1       |
| 15      | White/Yellow | Solenoid 2-b  | 12    | 2       |
| 16      | Yellow/Brown | Solenoid 3-b  | 12    | 3       |
| 17      | White/Grey   | Solenoid 4-b  | 12    | 4       |
| 18      | Grey/Brown   | Solenoid 5-b  | 12    | 5       |
| 19      | White/Pink   | Solenoid 6-b  | 12    | 6       |
| 20      | Pink/Brown   | Solenoid 7-b  | 12    | 7       |
| 21      | White/Blue   | Solenoid 8-b  | 12    | 8       |
| 22      | Brown/Blue   | Solenoid 9-b  | 12    | 9       |
| 23      | White/Red    | Solenoid 10-b | 12    | 10      |
| 24      | Brown/Red    | Solenoid 11-b | 12    | 11      |
| 25      | White/Black  | Solenoid 12-b | 12    | 12      |

Note: Conforms to DIN 47100e

## D Sub-connector 44 pin 90° (IP65)



| A  | Model      |
|----|------------|
| 1m | V12088-E01 |
| 3m | V12088-E03 |
| 5m | V12088-E05 |

| Pin no. | Wire colour            | Socket        | Pilot | Station |
|---------|------------------------|---------------|-------|---------|
| 1       | White                  | Solenoid 1-a  | 14    | 1       |
| 2       | Brown                  | Solenoid 2-a  | 14    | 2       |
| 3       | Green                  | Solenoid 3-a  | 14    | 3       |
| 4       | Yellow                 | Solenoid 4-a  | 14    | 4       |
| 5       | Grey                   | Solenoid 5-a  | 14    | 5       |
| 6       | Pink                   | Solenoid 6-a  | 14    | 6       |
| 7       | Blue                   | Solenoid 7-a  | 14    | 7       |
| 8       | Red                    | Solenoid 8-a  | 14    | 8       |
| 9       | Black                  | Solenoid 9-a  | 14    | 9       |
| 10      | Violet                 | Solenoid 10-a | 14    | 10      |
| 11      | Grey/Pink              | Solenoid 11-a | 14    | 11      |
| 12      | Red/Blue               | Solenoid 12-a | 14    | 12      |
| 13      | White/Green            | Solenoid 13-a | 14    | 13      |
| 14      | Brown/Green            | Solenoid 14-a | 14    | 14      |
| 15      | White/Yellow           | Solenoid 15-a | 14    | 15      |
| 16      | Yellow/Brown           | Solenoid 1-b  | 12    | 1       |
| 17      | White/Grey             | Solenoid 2-b  | 12    | 2       |
| 18      | Grey/Brown             | Solenoid 3-b  | 12    | 3       |
| 19      | White/Pink             | Solenoid 4-b  | 12    | 4       |
| 20      | Pink/Brown             | Solenoid 5-b  | 12    | 5       |
| 21      | White/Blue             | Solenoid 6-b  | 12    | 6       |
| 22      | Brown/Blue             | Solenoid 7-b  | 12    | 7       |
| 23      | White/Red              | Solenoid 8-b  | 12    | 8       |
| 24      | Brown/Red              | Solenoid 9-b  | 12    | 9       |
| 25      | White/Black            | Solenoid 10-b | 12    | 10      |
| 26      | Brown/Black            | Solenoid 11-b | 12    | 11      |
| 27      | Grey/Green             | Solenoid 12-b | 12    | 12      |
| 28      | Yellow/Grey            | Solenoid 13-b | 12    | 13      |
| 29      | Pink/Green             | Solenoid 14-b | 12    | 14      |
| 30      | Yellow/Pink            | Solenoid 15-b | 12    | 15      |
| 31      | Green/Blue             | Solenoid 16-a | 14    | 16      |
| 32      | Yellow/Blue            | Solenoid 16-b | 12    | 16      |
| 33      | -                      | Not used      | -     | -       |
| 34      | -                      | Not used      | -     | -       |
| 35      | -                      | Not used      | -     | -       |
| 36      | -                      | Not used      | -     | -       |
| 37      | -                      | Not used      | -     | -       |
| 38      | -                      | Not used      | -     | -       |
| 39      | -                      | Not used      | -     | -       |
| 40      | -                      | Not used      | -     | -       |
| 41      | -                      | Not used      | -     | -       |
| 42      | -                      | Not used      | -     | -       |
| 43      | -                      | Not used      | -     | -       |
| 44      | Red/Black Yellow/Black | Common -Ve    | -     | -       |

Dimensions in mm  
Projection/First angle

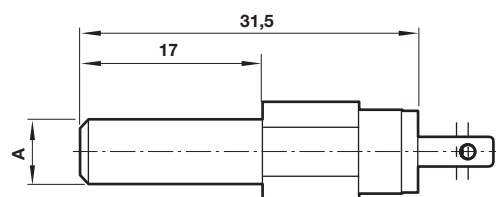


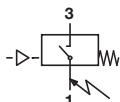
## Pressure switch for pilot ports 12 & 14

Dimensions in mm  
Projection/First angle

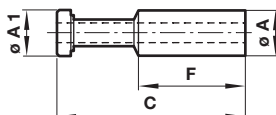


|                                  |                 |
|----------------------------------|-----------------|
| Voltage:                         | 24 V d.c.       |
| Pressure range:                  | 0 ... 10 bar    |
| Switching point rising pressure: | 3 ... 5 bar     |
| Switch point falling pressure:   | 2,5 ... 3,7 bar |
| AMP E-terminals:                 | 2,8 x 0,8       |
| Degree of protection:            | IP00            |
| Adjustment:                      | None            |



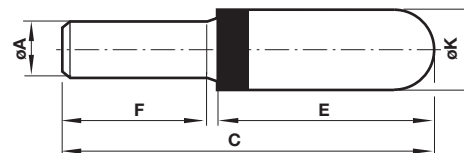
| Symbol                                                                            | A | Short code | Weight (kg) | Model          |
|-----------------------------------------------------------------------------------|---|------------|-------------|----------------|
|  | 6 | 7B         | 0,004       | VM106517AQ0806 |
|                                                                                   |   |            |             |                |
|                                                                                   |   |            |             |                |

## Plug C0004



| Ø A | Ø A1 | C  | F    | Model     |
|-----|------|----|------|-----------|
| 6   | 6    | 34 | 18,5 | C00040600 |
| 8   | 8    | 38 | 21   | C00040800 |
| 10  | 10   | 42 | 24   | C00041000 |
| 12  | 12   | 46 | 29,5 | C00041200 |

## Silencer



| Ø A | C    | E    | F  | Ø K  | Model    |
|-----|------|------|----|------|----------|
| 6   | 45   | 24,5 | 17 | 12,5 | T45P0006 |
| 8   | 43,5 | 22   | 19 | 13,5 | T45P0008 |
| 10  | 57,5 | 31   | 23 | 15,5 | T45P0010 |
| 12  | 82   | 53   | 25 | 18,5 | T45P0012 |

## Short codes for valve island specifications

| Description                                      | Manual override | Short code | Model          |
|--------------------------------------------------|-----------------|------------|----------------|
| 2 x 3/2 - 2 x NC - Internal feed valve 6 mm PIF  | Turn & lock     | NA6T       | VM156A11AB213B |
| 2 x 3/2 - 2 x NC - Internal feed valve 6 mm PIF  | Push only       | NA6U       | VM156A11AB313B |
| 2 x 3/2 - 2 x NC - Internal feed valve 8 mm PIF  | Turn & lock     | NA8T       | VM158A11AB213B |
| 2 x 3/2 - 2 x NC - Internal feed valve 8 mm PIF  | Push only       | NA8U       | VM158A11AB313B |
| 2 x 3/2 - 2 x NC - Internal feed valve 10 mm PIF | Turn & lock     | NA1T       | VM15YA11AB213B |
| 2 x 3/2 - 2 x NC - Internal feed valve 10 mm PIF | Push only       | NA1U       | VM15YA11AB313B |
|                                                  |                 |            |                |
| 2 x 3/2 - 2 x NC - External feed valve 6 mm PIF  | Turn & lock     | ND6T       | VM156A22AB213B |
| 2 x 3/2 - 2 x NC - External feed valve 6 mm PIF  | Push only       | ND6U       | VM156A22AB313B |
| 2 x 3/2 - 2 x NC - External feed valve 8 mm PIF  | Turn & lock     | ND8T       | VM158A22AB213B |
| 2 x 3/2 - 2 x NC - External feed valve 8 mm PIF  | Push only       | ND8U       | VM158A22AB313B |
| 2 x 3/2 - 2 x NC - External feed valve 10 mm PIF | Turn & lock     | ND1T       | VM15YA22AB213B |
| 2 x 3/2 - 2 x NC - External feed valve 10 mm PIF | Push only       | ND1U       | VM15YA22AB313B |
|                                                  |                 |            |                |
| 2 x 3/2 - 2 x NO - Internal feed valve 6 mm PIF  | Turn & lock     | NB6T       | VM156B11AB213B |
| 2 x 3/2 - 2 x NO - Internal feed valve 6 mm PIF  | Push only       | NB6U       | VM156B11AB313B |
| 2 x 3/2 - 2 x NO - Internal feed valve 8 mm PIF  | Turn & lock     | NB8T       | VM158B11AB213B |
| 2 x 3/2 - 2 x NO - Internal feed valve 8 mm PIF  | Push only       | NB8U       | VM158B11AB313B |
| 2 x 3/2 - 2 x NO - Internal feed valve 10 mm PIF | Turn & lock     | NB1T       | VM15YB11AB213B |
| 2 x 3/2 - 2 x NO - Internal feed valve 10 mm PIF | Push only       | NB1U       | VM15YB11AB313B |
|                                                  |                 |            |                |
| 2 x 3/2 - 2 x NO - External feed valve 6 mm PIF  | Turn & lock     | NE6T       | VM156B22AB213B |
| 2 x 3/2 - 2 x NO - External feed valve 6 mm PIF  | Push only       | NE6U       | VM156B22AB313B |
| 2 x 3/2 - 2 x NO - External feed valve 8 mm PIF  | Turn & lock     | NE8T       | VM158B22AB213B |
| 2 x 3/2 - 2 x NO - External feed valve 8 mm PIF  | Push only       | NE8U       | VM158B22AB313B |
| 2 x 3/2 - 2 x NO - External feed valve 10 mm PIF | Turn & lock     | NE1T       | VM15YB22AB213B |
| 2 x 3/2 - 2 x NO - External feed valve 10 mm PIF | Push only       | NE1U       | VM15YB22AB313B |

## Short codes for valve island specifications

| Description                                               | Manual override | Short code | Model          |
|-----------------------------------------------------------|-----------------|------------|----------------|
| 2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 6 mm PIF  | Turn & lock     | NC6T       | VM156C11AB213B |
| 2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 6 mm PIF  | Push only       | NC6U       | VM156C11AB313B |
| 2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 8 mm PIF  | Turn & lock     | NC8T       | VM158C11AB213B |
| 2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 8 mm PIF  | Push only       | NC8U       | VM158C11AB313B |
| 2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 10 mm PIF | Turn & lock     | NC1T       | VM15YC11AB213B |
| 2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 10 mm PIF | Push only       | NC1U       | VM15YC11AB313B |
|                                                           |                 |            |                |
| 2 x 3/2 - 1 x NC + 1 x NO - External feed valve 6 mm PIF  | Turn & lock     | NF6T       | VM156C22AB213B |
| 2 x 3/2 - 1 x NC + 1 x NO - External feed valve 6 mm PIF  | Push only       | NF6U       | VM156C22AB313B |
| 2 x 3/2 - 1 x NC + 1 x NO - External feed valve 8 mm PIF  | Turn & lock     | NF8T       | VM158C22AB213B |
| 2 x 3/2 - 1 x NC + 1 x NO - External feed valve 8 mm PIF  | Push only       | NF8U       | VM158C22AB313B |
| 2 x 3/2 - 1 x NC + 1 x NO - External feed valve 10 mm PIF | Turn & lock     | NF1T       | VM15YC22AB213B |
| 2 x 3/2 - 1 x NC + 1 x NO - External feed valve 10 mm PIF | Push only       | NF1U       | VM15YC22AB313B |
|                                                           |                 |            |                |
| 5/2 Solenoid Spring - Internal feed valve 6 mm PIF        | Turn & lock     | NG6T       | VM156517AB213B |
| 5/2 Solenoid Spring - Internal feed valve 6 mm PIF        | Push only       | NG6U       | VM156517AB313B |
| 5/2 Solenoid Spring - Internal feed valve 8 mm PIF        | Turn & lock     | NG8T       | VM158517AB213B |
| 5/2 Solenoid Spring - Internal feed valve 8 mm PIF        | Push only       | NG8U       | VM158517AB313B |
| 5/2 Solenoid Spring - Internal feed valve 10 mm PIF       | Turn & lock     | NG1T       | VM15Y517AB213B |
| 5/2 Solenoid Spring - Internal feed valve 10 mm PIF       | Push only       | NG1U       | VM15Y517AB313B |
|                                                           |                 |            |                |
| 5/2 Solenoid Spring - External feed valve 6 mm PIF        | Turn & lock     | NH6T       | VM156527AB213B |
| 5/2 Solenoid Spring - External feed valve 6 mm PIF        | Push only       | NH6U       | VM156527AB313B |
| 5/2 Solenoid Spring - External feed valve 8 mm PIF        | Turn & lock     | NH8T       | VM158527AB213B |
| 5/2 Solenoid Spring - External feed valve 8 mm PIF        | Push only       | NH8U       | VM158527AB313B |
| 5/2 Solenoid Spring - External feed valve 10 mm PIF       | Turn & lock     | NH1T       | VM15Y527AB213B |
| 5/2 Solenoid Spring - External feed valve 10 mm PIF       | Push only       | NH1U       | VM15Y527AB313B |

## Short codes for valve island specifications

| Description                                               | Manual override | Short code | Model          |
|-----------------------------------------------------------|-----------------|------------|----------------|
| 5/2 Solenoid Solenoid - Internal feed valve 6 mm PIF      | Turn & lock     | NJ6T       | VM156511AB213B |
| 5/2 Solenoid Solenoid - Internal feed valve 6 mm PIF      | Push only       | NJ6U       | VM156511AB313B |
| 5/2 Solenoid Solenoid - Internal feed valve 8 mm PIF      | Turn & lock     | NJ8T       | VM158511AB213B |
| 5/2 Solenoid Solenoid - Internal feed valve 8 mm PIF      | Push only       | NJ8U       | VM158511AB313B |
| 5/2 Solenoid Solenoid - Internal feed valve 10 mm PIF     | Turn & lock     | NJ1T       | VM15Y511AB213B |
| 5/2 Solenoid Solenoid - Internal feed valve 10 mm PIF     | Push only       | NJ1U       | VM15Y511AB313B |
|                                                           |                 |            |                |
| 5/2 Solenoid Solenoid - External feed valve 6 mm PIF      | Turn & lock     | NK6T       | VM156522AB213B |
| 5/2 Solenoid Solenoid - External feed valve 6 mm PIF      | Push only       | NK6U       | VM156522AB313B |
| 5/2 Solenoid Solenoid - External feed valve 8 mm PIF      | Turn & lock     | NK8T       | VM158522AB213B |
| 5/2 Solenoid Solenoid - External feed valve 8 mm PIF      | Push only       | NK8U       | VM158522AB313B |
| 5/2 Solenoid Solenoid - External feed valve 10 mm PIF     | Turn & lock     | NK1T       | VM15Y522AB213B |
| 5/2 Solenoid Solenoid - External feed valve 10 mm PIF     | Push only       | NK1U       | VM15Y522AB313B |
|                                                           |                 |            |                |
| 5/3 APB Solenoid Solenoid - Internal feed valve 6 mm PIF  | Turn & lock     | NL6T       | VM156611AB213B |
| 5/3 APB Solenoid Solenoid - Internal feed valve 6 mm PIF  | Push only       | NL6U       | VM156611AB313B |
| 5/3 APB Solenoid Solenoid - Internal feed valve 8 mm PIF  | Turn & lock     | NL8T       | VM158611AB213B |
| 5/3 APB Solenoid Solenoid - Internal feed valve 8 mm PIF  | Push only       | NL8U       | VM158611AB313B |
| 5/3 APB Solenoid Solenoid - Internal feed valve 10 mm PIF | Turn & lock     | NL1T       | VM15Y611AB213B |
| 5/3 APB Solenoid Solenoid - Internal feed valve 10 mm PIF | Push only       | NL1U       | VM15Y611AB313B |
|                                                           |                 |            |                |
| 5/3 APB Solenoid Solenoid - External feed valve 6 mm PIF  | Turn & lock     | NM6T       | VM156622AB213B |
| 5/3 APB Solenoid Solenoid - External feed valve 6 mm PIF  | Push only       | NM6U       | VM156622AB313B |
| 5/3 APB Solenoid Solenoid - External feed valve 8 mm PIF  | Turn & lock     | NM8T       | VM158622AB213B |
| 5/3 APB Solenoid Solenoid - External feed valve 8 mm PIF  | Push only       | NM8U       | VM158622AB313B |
| 5/3 APB Solenoid Solenoid - External feed valve 10 mm PIF | Turn & lock     | NM1T       | VM15Y622AB213B |
| 5/3 APB Solenoid Solenoid - External feed valve 10 mm PIF | Push only       | NM1U       | VM15Y622AB313B |

## Short codes for valve island specifications

| Description                    |       | Short code | Model          |
|--------------------------------|-------|------------|----------------|
| End plate kit - feed both ends | 12 mm | F200       | VM156517AQ010Z |
| End plate kit - feed both ends | 10 mm | F100       | VM156517AQ010Y |
| End plate kit - right blocked  | 12 mm | L200       | VM156517AQ011Z |
| End plate kit - right blocked  | 10 mm | L100       | VM156517AQ011Y |
| End plate kit - left blocked   | 12 mm | R200       | VM156517AQ012Z |
| End plate kit - left blocked   | 10 mm | R100       | VM156517AQ012Y |
|                                |       |            |                |
| Blank body                     | B000  |            | VM156517AQ0300 |
| Port 1 blanked                 | B100  |            | VM156517AQ0301 |
| Ports 3 & 5 blanked            | B300  |            | VM156517AQ0302 |
| Ports 1, 3 & 5 blanked         | B500  |            | VM156517AQ0303 |
| ISEM Feed right                | RM80  |            | VM156517AQ0304 |
| ISEM Feed left                 | LM80  |            | VM156517AQ0305 |
| ISEM Feed right & left         | FM80  |            | VM156517AQ0306 |

## 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 Ltd.

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.