



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Global ISO Valves Platform

A complete range of pneumatic ISO valves


ISYS and **ISOMAX**

Catalogue PDE2589TCUK March 2012




ENGINEERING YOUR SUCCESS.


| | |
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Important !
 Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



NB !
 All technical data in this catalogue is typical only.
 The air quality is decisive for the valve life: see ISO 8573.



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.
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ISO Specifications



5599-1



External electrical connection subbase valves

The ISO Standard 5599-1 specifies an interface pattern for a common subbase valve consisting of pressure passages 1, 3, 5, 2 & 4 and pilot passages 12 & 14. The width of the pattern and location of the 4 bolt holes are also specified. There are no specifications for the type of external electrical connection used to control the valve.

Size : 1 2 3



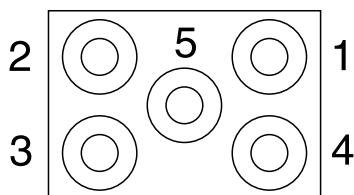
5599-2



Body-to-base plug-in subbase valves

Same as 5599-1 for pneumatic pressure passages, 5599-2 standard also specifies a plug-in electrical connection.

Sizes : 1 2 3



- 1 = 12 solenoid
- 2 = 14 solenoid
- 3 = 12 solenoid
- 4 = 14 solenoid
- 5 = Ground

ISO Specifications



15407-1

(VDMA 24563)



ISO 15407-1

External electrical connection subbase valves

The ISO Standard 15407-1 specifies an interface pattern for a common subbase valve consisting of pressure passages 1, 3, 5, 2 & 4 and pilot passages 12 & 14. The width of the pattern and location of the 4 bolt holes are also specified. There are no specifications for the type of external electrical connection used to control the valve.

Size : 02 01



15407-2

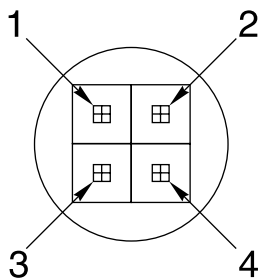


ISO 15407-2

Body-to-base plug-in subbase valves

Same as 15407-1 for pneumatic pressure passages, 15407-2 standard also specifies a plug-in electrical connection.

Size : 01 02



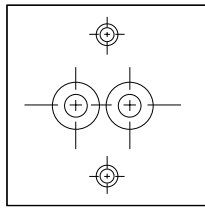
Pin 1 = 14 solenoid

Pin 2 = 12 solenoid

Pin 3 = Ground +

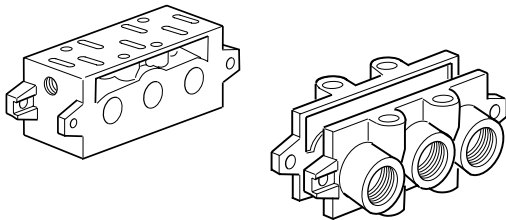
Pin 4 = Common -

ISO Specifications



CNOMO 06-05-01

The solenoid pilot interface often used with ISO 5599-1 valves is the CNOMO interface. The CNOMO interface specifies the pressure and actuator port, and the screw holes for the mounting of this solenoid pilot. It is commonly used in European automotive plants, and its usage is becoming more prevalent for industrial ISO 5599-1 valves.



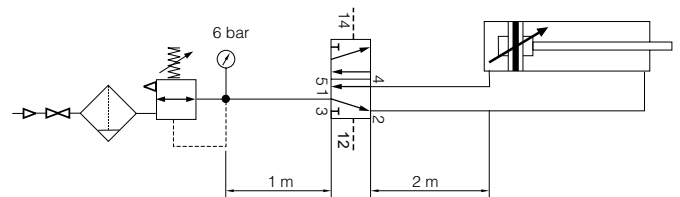
VDMA 24345

The VDMA 24345 is a standard for Manifolds and Subbase specifying a common base mounting footprint in addition to ISO 5599-1 Interface standard. (VDMA is a German organisation - Verband Deutscher Maschinen und Anlagen-Bauer - which is translated to Federation of German Machine and Unit Builders.)

Choice of components for air supply to cylinders

In the chart below can you find the suitable valves, tubes etc. for each cylinder size. If you have a tube length over 2 m, choose one tube size larger than in the chart.

Following data is valid:
 Supply pressure: min 7,0 bar
 Regulator pressure setting: 6,0 bar
 Pipe length between air treatment unit and valve: max 1 m
 Pipe length between valve and cylinder : max 2 m









| Cylinder bore | <Ø20 | Ø20-32 | Ø40-50 | Ø63 | Ø80 | Ø100 | Ø125 | Ø160 | Ø200 |
|------------------|---------|--------|--------|--------|------------------|-------------------|---------|---------|---------|
| Cylinder port | M5 | G1/8 | G1/4 | G3/8 | G3/8 | G1/2 | G1/2 | G3/4 | G3/4 |
| Tubing Ext / Int | 4 / 2.7 | 6 / 4 | 8 / 6 | 10 / 7 | 10 / 7 12 / 9 | 12 / 9 14 / 11 | 14 / 11 | 18 / 15 | 20 / 18 |
| Size 02 | Isomax | G1/8 | G1/8 | G1/8 | G1/8 | | | | |
| | ISYS | G1/8 | G1/8 | G1/8 | G1/8 | G1/8 | | | |
| Size 01 | Isomax | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | | | |
| | ISYS | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | | |
| Size 1 | Isomax | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | | |
| | ISYS | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | | |
| | ISYS | | | G3/8 | G3/8 | G3/8 | G3/8 | G3/8 | |
| Size 2 | Isomax | | | G3/8 | G3/8 | G3/8 | G3/8 | G3/8 | |
| | ISYS | | | G3/8 | G3/8 | G3/8 | G3/8 | G3/8 | |
| | ISYS | | | | G1/2 | G1/2 | G1/2 | G1/2 | G1/2 |
| Size 3 | Isomax | | | | G1/2 | G1/2 | G1/2 | G1/2 | G1/2 |
| | ISYS | | | | G1/2 | G1/2 | G1/2 | G1/2 | G1/2 |
| | ISYS | | | | | G3/4 | G3/4 | G3/4 | G3/4 |




Cylinder speed < 0.5 m/s
 Cylinder speed < 1 m/s
 Cylinder speed > 1 m/s

ISO 15407

Size 02 / 01

Cylinders from Ø 10 to 100









| | | | | |
|-------------|------------------------------|-------------------------|--|---|
| ISO 15407-1 | Individual Connection | DIN C | Isomax  Page 13 | |
| | | M12 | ISYS ISO  Page 25 | |
| | | Remote pilot | Isomax  Page 14 | ISYS ISO  Page 25 |
| | | Subbase, Manifolds |  Page 34 | |
| | | Flow Control, Regulator |  Page 42 | |




| | | | | |
|-------------|----------------|-------------------------|--|--|
| ISO 15407-2 | Plug-in | Plug-in | ISYS ISO  Page 27 | |
| | | Subbase, Manifolds |  Page 36 | |
| | | Flow Control, Regulator |  Page 42 | |

ISO 5599

Size 1 / 2 / 3

Cylinders from Ø 63 to 200

| | | | |
|--|----------------------------|---|---|
| ISO 5599-1 Individual Connection | DIN A, Industrial | Isomax  Page 16 | ISYS ISO  Page 29 |
| | M12, M23 | Isomax  Page 18 | ISYS ISO  Page 31 |
| | Remote pilot | Isomax  Page 17 | ISYS ISO  Page 31 |
| | Subbase, Manifolds |  Page 38 | |
| | Flow Control, Regulator |  Page 44 | |

| | | |
|------------------------------|----------------------------|--|
| ISO 5599-2 Plug-in | Plug-in | ISYS ISO  Page 33 |
| | Subbase, Manifolds |  Page 40 |
| | Flow Control, Regulator |  Page 44 |

Isomax - General Applications

Market Application

- Automotive Handling
- Packaging
- Manufacturing
- General application



Ceramic technology

All ISOMAX products use high-tech ceramic switching technology :

- **Excellent reliability :**

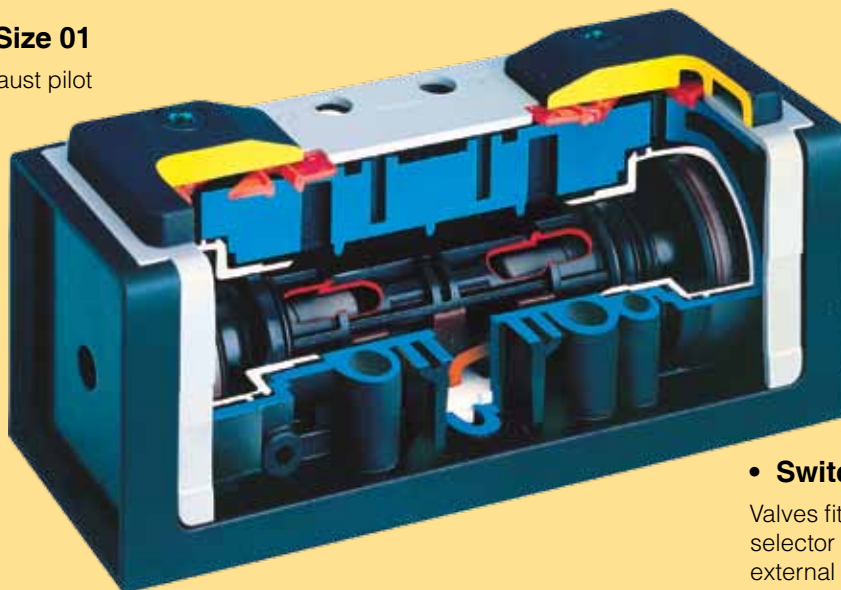
Long life in excess of 100 million operations*.
Operates with lubricated or non lubricated air.
Low sensitivity to air quality changes ;
switching without seal.
Stiction free.

- **Size 02 & Size 01**

Solenoid exhaust pilot

- **High performances :**

Slide valve concept allows high flow / size ratio and short response time due to short slide stroke and low friction.



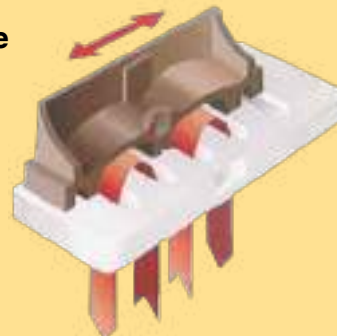
- **Switchable selector**

Valves fitted with switchable selector to give internal or external pilot supply

- **Stable long lasting performances**

Low friction switching : minimum wear of the valve member/seal assembly.

Ceramic plate



Global ISO Series Valves

Rust and corrosion resistant body

With the valve body in polyamide reinforced fiberglass and the casting in anodised aluminium, the Isomax range presents a comprehensive modern design to suit most industrial environments.

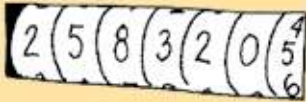
Central M12 connection or M12 coil

All sizes of ISO 5599-1 are supplied with central M12 integrated connector, a M12 bridge cable or with a 30 x 30mm coil having M12 interface.

External supply selection

In order to use actuator with low pressure, it is possible to connect an external pressure on port 14 to supply both solenoids. Selection is easily made by reversing the gasket under the operator.

High reliability



Valves easily comply with the requirements for the component reliability in accordance with EU Machinery Directive standards EN292-2 and EN983.

Maintenance

Spares are not required for the main valve or spool but solenoid operators can be replaced if required.

Manual Override

Solenoids are available with locking or non-locking manual overrides so that valves can be operated when the electrical supply is turned off.

Solenoid valves, CNOMO interface, 15mm solenoid



The standard valve is fitted with a 30mm solenoid having DIN 43650 Industrial form A connector for sizes 1, 2 and 3 15mm solenoid for sizes 01 and 02.

Low noise level

Size 01 and 02 valves fitted with the 15mm solenoid option use captured pilot exhaust which is channelled through the valve body and exhausts to atmosphere through channel 12

High electrical encapsulation class



The solenoid valves are protected to IP65 with the standard cable plug. Available with DIN A or M12 connection.

Wide choice of solenoid connectors/cable plugs

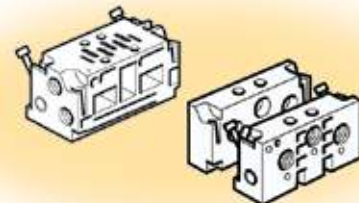


Solenoid connectors are available with or without LED and rectifier and may be selected fitted pre-wired with flying leads.

Valves having ATEX approval

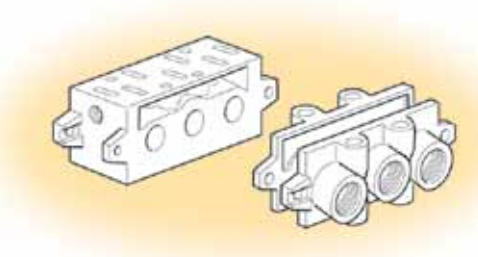
ATEX approved options are available for use in explosive atmospheres. Consult our Technical Sales Department for further information.

Bottom or side ported manifold



Manifolds with common ducts for ports 1,3 and 5, outlet port 2 and 4, and supply port for 12 and 14 are available side or bottom ported. Those manifolds are common for Isomax and Isys Iso.

Subbase installation VDMA

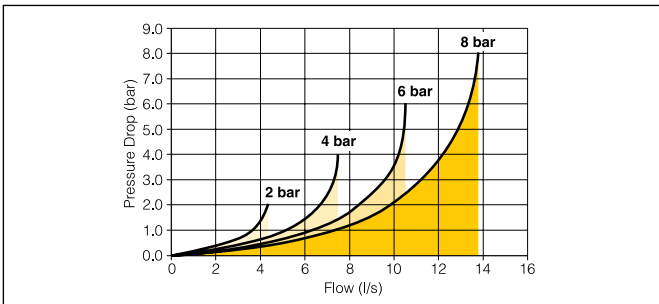


A large range of subbase, VDMA or not VDMA, bottom or side ported.

Isomax Flow Characteristics

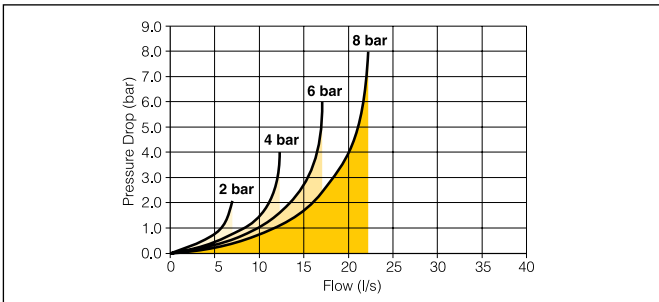
Flow capacities in accordance with ISO6358, for 5/2 function. 5/3 function are around 10 to 20% less.

Technical Data Isomax Size 02



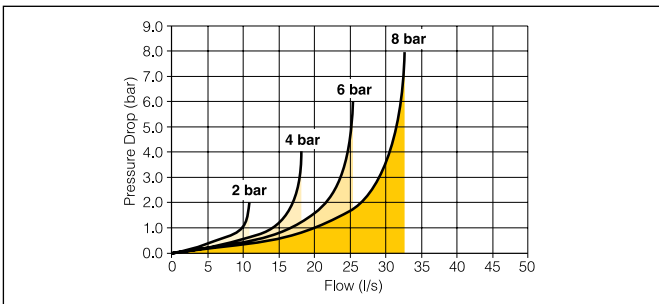
| | |
|----------------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 4,0 - 10 bar |
| 5/2 Differential | 3,0 - 10 bar |
| 5/2 Double solenoid or pneumatic | 2,0 - 10 bar |
| 5/3 Double solenoid or pneumatic | 4,0 - 10 bar |
| Working temperature. | |
| -10°C to + 60°C | |
| Flow (acc. to ISO 6358) | |
| c = 1,5 NI/s x bar | |
| b = 0,25 | |
| Qn = 6,3 l/s | |
| Qmax = 10,6 l/s | |

Technical Data Isomax Size 01



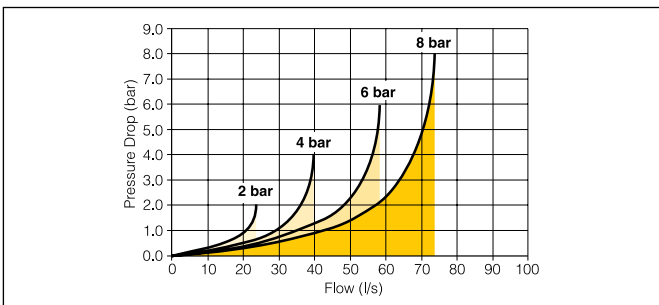
| | |
|----------------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 4,0 - 10 bar |
| 5/2 Differential | 3,0 - 10 bar |
| 5/2 Double solenoid or pneumatic | 2,0 - 10 bar |
| 5/3 Double solenoid or pneumatic | 4,0 - 10 bar |
| Working temperature. | |
| -10°C to + 60°C | |
| Flow (acc. to ISO 6358) | |
| c = 2,5 NI/s x bar | |
| b = 0,25 | |
| Qn = 9,8 l/s | |
| Qmax = 17,1 l/s | |

Technical Data Isomax Size 1



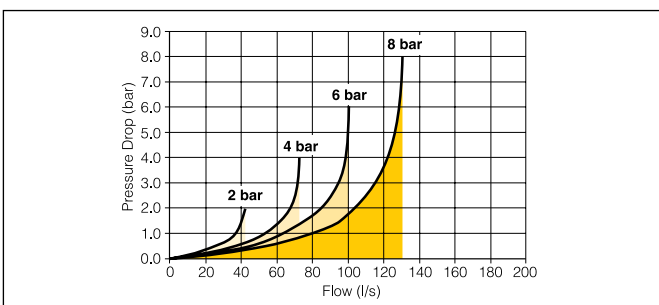
| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 3,0 - 10 bar |
| 5/2 Differential | 2,0 - 10 bar |
| 5/2 Double solenoid | 1,0 - 10 bar |
| 5/3 Double solenoid | 3,5 - 10 bar |
| Pneumatic version | |
| 12 bar | |
| Working temperature. | |
| -10°C to + 60°C | |
| Flow (acc. to ISO 6358) | |
| c = 3,8 NI/s x bar | |
| b = 0,35 | |
| Qn = 17,2 l/s | |
| Qmax = 25,5 l/s | |

Technical Data Isomax Size 2



| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 2,5 - 10 bar |
| 5/2 Differential | 2,0 - 10 bar |
| 5/2 Double solenoid | 1,0 - 10 bar |
| 5/3 Double solenoid | 3,0 - 10 bar |
| Pneumatic version | |
| 12 bar | |
| Working temperature. | |
| -10°C to + 60°C | |
| Flow (acc. to ISO 6358) | |
| c = 8,2 NI/s x bar | |
| b = 0,35 | |
| Qn = 38,3 l/s | |
| Qmax = 58,7 l/s | |

Technical Data Isomax Size 3



| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 2,5 - 10 bar |
| 5/2 Differential | 2,0 - 10 bar |
| 5/2 Double solenoid | 1,0 - 10 bar |
| 5/3 Double solenoid | 3,0 - 10 bar |
| Pneumatic version | |
| 12 bar | |
| Working temperature. | |
| -10°C to + 60°C | |
| Flow (acc. to ISO 6358) | |
| c = 14,5 NI/s x bar | |
| b = 0,35 | |
| Qn = 64,0 l/s | |
| Qmax = 101,0 l/s | |



Isomax Material Specification and Characteristics

15407

| | |
|-----------------------|--|
| Valve member - seat : | Self lubricating acetal - ceramic |
| Body : | Polyamide reinforced fibreglass |
| Casing - End plates : | Anodised aluminium - Painted zinc plated steel |
| Valve plate : | Zamak |
| Seals : | Nitrile |
| Springs : | Stainless steel |
| Screws : | Zinc plated steel |
| Function selector : | |
| Top cover - Seal : | Polyamide reinforced fiberglass - Polyester |

Characteristics

| | |
|---------------------|--|
| Fluid: | Air or inert gas filtered 40u class 5 according to ISO 8573-1 dry class 4 according to ISO 8573-1 non-lubricated, or lubricated |
| Storage temperature | -20° to + 70° |
| Vibration | according to IEC 68-2-6 2G 2 to 150Hz |
| Shock | according to IEC 68-2-7 15G 11ms |
| Manual override | Non-locking, other type on request |

Solenoid : please see page 53

Certification

| | |
|-------------------------|----------------------------|
| EMC / CE mark. | According to EN 61 000-6-2 |
| Dust & water protection | IP65 according to EN 60529 |

5599

| | |
|-----------------------|--|
| Valve member - seat : | Self lubricating acetal - ceramic |
| Body : | Polyamide reinforced fibreglass |
| Casing - End plates : | Anodised aluminium - Painted zinc plated steel |
| Valve plate : | Zamak |
| Seals : | Nitrile |
| Springs : | Stainless steel |
| Screws : | Zinc plated steel |
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| Top cover - Seal : | Polyamide reinforced fiberglass - Polyester |

Characteristics

| | |
|---------------------|--|
| Fluid: | Air or inert gas filtered 40u class 5 according to ISO 8573-1 dry class 4 according to ISO 8573-1 non-lubricated, or lubricated |
| Storage temperature | -20° to + 70° |
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| Shock | according to IEC 68-2-7 15G 11ms |
| Manual override | Non-locking, other type on request |

Solenoid : please see page 56

Certification

| | |
|-------------------------|----------------------------|
| EMC / CE mark. | According to EN 61 000-6-2 |
| Dust & water protection | IP65 according to EN 60529 |

Isomax - ISO 15407 - 15mm Solenoid

Order chart

DX
-
01
-
6
-
21
-
95
-
1
-
M
-
S

| Size | |
|-----------|-------------------|
| 02 | 18 mm (ISO 15407) |
| 01 | 26 mm (ISO 15407) |

| Pilot | |
|----------|-------------------|
| 4 | Pneumatic |
| 6 | Electro-Pneumatic |

| Voltage | |
|----------|---------|
| B | 12 VAC |
| C | 24 VAC |
| D | 48 VAC |
| J | 110 VAC |
| A | 230 VAC |
| L | 12 VDC |
| M | 24 VDC |
| N | 48 VDC |

Shaded voltage part numbers are available from stock.
 Unshaded part numbers are available on request but will be subject to minimum order quantities.
 Otherwise order coil/solenoid and valve separately.


| Valve type function | |
|--|--|
| Internal pilot supply / Capture exhaust 12 | |
| 06 | 5/2 double solenoid |
| 56 | 5/2 double solenoid, 14 prioritised |
| 21 | 5/2 single solenoid, spring return |
| 51 | 5/2 single solenoid, differential return |
| 11 | 5/3 double solenoid vented centre |
| 16 | 5/3 double solenoid closed centre |
| External pilot 14 supply / Capture exhaust 12 | |
| 05 | 5/2 double solenoid |
| 59 | 5/2 double solenoid, 14 prioritised |
| 23 | 5/2 single solenoid, spring return |
| 54 | 5/2 single solenoid, differential return |
| 09 | 5/3 double solenoid vented centre |
| 19 | 5/3 double solenoid closed centre |

| Manual override | |
|-----------------|------------------------------------|
| 0 | Without any |
| 1 | Flush non locking |
| 3 | Flush locking |
| 2 | Flush non locking (extended 15 mm) |
| 5 | Flush locking (extended 15 mm) |

| Electrical operator | |
|---------------------|---|
| 60 | Without any * |
| 95 | 15 mm solenoid 1,2 W DIN 43650 form C † |

* Standard for Pneumatic version
 † Standard for electro-pneumatic version

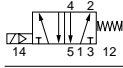
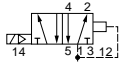

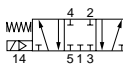

| Connector | |
|-------------|---|
| Without any | |
| C | Standard connector |
| S | Connector with LED and protection |
| S3 | Connector with LED and protection - 3 m cable |
| S5 | Connector with LED and protection - 5 m cable |

| Isomax | |
|---|--|
|  | |

Shaded part numbers are standard

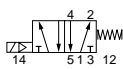
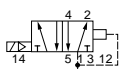
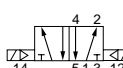
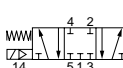

Solenoid operated ISO valve fitted with 15 mm solenoid 24 VDC

Solenoid plug/connector to be ordered separately. See page 58


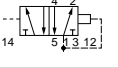
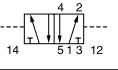
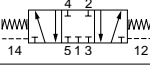
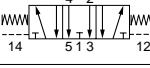
| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|---|------------|-------------------|-------------------|---|-----------|----------------------|
| 5/2 Valves | | | | | | |
|  | 02 - 18 mm | Electrical signal | Spring | 15/25 | 0.13 | DX02-621-951M |
| | 01 - 26 mm | Electrical signal | Spring | 25/35 | 0.17 | DX01-621-951M |
|  | 02 - 18 mm | Electrical signal | Differential | 15/30 | 0.13 | DX02-651-951M |
| | 01 - 26 mm | Electrical signal | Differential | 20/40 | 0.17 | DX01-651-951M |
|  | 02 - 18 mm | Electrical signal | Electrical signal | 12/12 | 0.17 | DX02-606-951M |
| | 01 - 26 mm | Electrical signal | Electrical signal | 15/15 | 0.21 | DX01-606-951M |
| 5/3 Valves | | | | | | |
|  | 02 - 18 mm | Electrical signal | Electrical signal | 20/60 | 0.17 | DX02-616-951M |
| | 01 - 26 mm | Closed center | Self centering | 20/60 | 0.21 | DX01-616-951M |
|  | 02 - 18 mm | Electrical signal | Electrical signal | 20/60 | 0.17 | DX02-611-951M |
| | 01 - 26 mm | Vented center | Self centering | 20/60 | 0.21 | DX01-611-951M |

Solenoid operated ISO valve fitted with adaptor to accept 15 mm solenoid

Solenoid plug/connector to be ordered separately. See pages 54 & 58

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|---|------------|-------------------|-------------------|---|-----------|--------------------|
| 5/2 Valves | | | | | | |
|  | 02 - 18 mm | Electrical signal | Spring | 15/25 | 0.9 | DX02-621-60 |
| | 01 - 26 mm | Electrical signal | Spring | 25/35 | 0.13 | DX01-621-60 |
|  | 02 - 18 mm | Electrical signal | Differential | 15/30 | 0.9 | DX02-651-60 |
| | 01 - 26 mm | Electrical signal | Differential | 20/40 | 0.13 | DX01-651-60 |
|  | 02 - 18 mm | Electrical signal | Electrical signal | 12/12 | 0.9 | DX02-606-60 |
| | 01 - 26 mm | Electrical signal | Electrical signal | 15/15 | 0.13 | DX01-606-60 |
| 5/3 Valves | | | | | | |
|  | 02 - 18 mm | Electrical signal | Electrical signal | 20/60 | 0.9 | DX02-616-60 |
| | 01 - 26 mm | Closed center | Self centering | 20/60 | 0.13 | DX01-616-60 |
|  | 02 - 18 mm | Electrical signal | Electrical signal | 20/60 | 0.9 | DX02-611-60 |
| | 01 - 26 mm | Vented center | Self centering | 20/60 | 0.13 | DX01-611-60 |

Pneumatic operated ISO valve

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|--|--------------------------|-----------------------------|------------------------------|---|-------------|--|
| 5/2 Valves | | | | | | |
|  | 02 - 18 mm 01 - 26 mm | Air signal Air signal | Spring Spring | 15/25 25/35 | 0.9 0.13 | DX02-421-60 DX01-421-60 |
|  | 02 - 18 mm 01 - 26 mm | Air signal Air signal | Differential Differential | 15/30 20/40 | 0.9 0.13 | DX02-451-60 DX01-451-60 |
|  | 02 - 18 mm 01 - 26 mm | Air signal Air signal | Air signal Air signal | 12/12 14/14 | 0.9 0.13 | DX02-406-60 DX01-406-60 |
| 5/3 Valves | | | | | | |
|  | 02 - 18 mm 01 - 26 mm | Air signal Closed center | Air signal Self centering | 20/50 20/50 | 0.9 0.13 | DX02-416-60 DX01-416-60 |
|  | 02 - 18 mm 01 - 26 mm | Air signal Vented center | Air signal Self centering | 20/50 20/50 | 0.9 0.13 | DX02-411-60 DX01-411-60 |

Isomax - ISO 5599 - Size 1 / 2 / 3 - CNOMO

Order chart

DX
-
1
-
6
-
51
-
B
-
L
-
49

| Size | |
|------|-------------------|
| 1 | Size 1 (ISO 5599) |
| 2 | Size 2 (ISO 5599) |
| 3 | Size 3 (ISO 5599) |

| Pilot | |
|-------|-------------------|
| 4 | Pneumatic |
| 6 | Electro-Pneumatic |

| Valve type function | |
|--------------------------|--|
| Internal pilot supply | |
| 06 | 5/2 double solenoid |
| 56 | 5/2 double solenoid, 14 prioritised |
| 21 | 5/2 single solenoid, spring return |
| 51 | 5/2 single solenoid, differential return |
| 11 | 5/3 double solenoid vented centre |
| 16 | 5/3 double solenoid closed centre |
| 13 | 5/3 double solenoid pressurised center |
| External pilot 14 supply | |
| 05 | 5/2 double solenoid |
| 59 | 5/2 double solenoid, 14 prioritised |
| 23 | 5/2 single solenoid, spring return |
| 54 | 5/2 single solenoid, differential return |
| 09 | 5/3 double solenoid vented centre |
| 19 | 5/3 double solenoid closed centre |
| 14 | 5/3 double solenoid pressurised center |

| Voltage | | |
|---------|-----------------|-----|
| | DC | AC |
| 45 | 12 | |
| 49 | 24 | |
| 40 | | 12 |
| 42 | | 24 |
| 53 | | 110 |
| 57 | | 230 |
| Blank | Valve less coil | |

| Solenoid enclosure | |
|--------------------|-------------------------|
| 2* | Central M12 connection |
| 6* | M12 on each coil |
| L | 3 pin 30mm DIN 43650A |
| P | 3 pin Industrial form B |
| N | Valve less coil |


| Overrides | |
|-----------|---|
| 60 | Remote pilot / without solenoid |
| 70 | Remote pilot / without solenoid * |
| A | No override |
| B | Non-locking (single sol.) Flush - Metal |
| C | Locking (double sol.) Flush - Plastic |

Shaded voltage part numbers are available from stock.
 Unshaded part numbers are available on request but will be subject to minimum order quantities.
 Otherwise order coil/solenoid and valve separately.

***19** for M12 coil


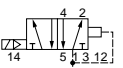
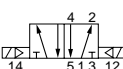
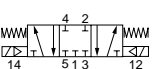
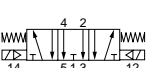
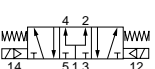
*** Fitted with direct spool override.**

Shaded part numbers are standard



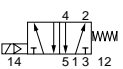
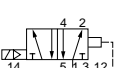
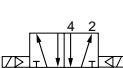
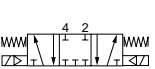
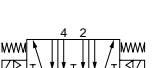
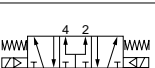
Solenoid operated ISO valve fitted with CNOMO solenoid(s) 24 VDC

Solenoid plug/connector to be ordered separately. See page 58

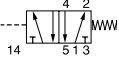
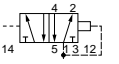
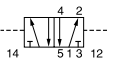
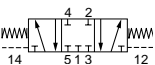

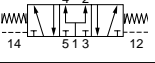
| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|---|----------|-------------------|-------------------|---|-----------|---------------------|
| 5/2 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Spring | 40/55 | 0.5 | DX1-621-BL49 |
| | 2 - 56mm | Electrical signal | Spring | 60/105 | 0.75 | DX2-621-BL49 |
| | 3 - 71mm | Electrical signal | Spring | 85/160 | 1.25 | DX3-621-BL49 |
|  | 1 - 43mm | Electrical signal | Differential | 30/70 | 0.5 | DX1-651-BL49 |
| | 2 - 56mm | Electrical signal | Differential | 55/110 | 0.75 | DX2-651-BL49 |
| | 3 - 71mm | Electrical signal | Differential | 80/180 | 1.25 | DX3-651-BL49 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/25 | 0.65 | DX1-606-BL49 |
| | 2 - 56mm | Electrical signal | Electrical signal | 30/30 | 0.9 | DX2-606-BL49 |
| | 3 - 71mm | Electrical signal | Electrical signal | 40/40 | 1.4 | DX3-606-BL49 |
| 5/3 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Electrical signal | 30/95 | 0.65 | DX1-616-BL49 |
| | 2 - 56mm | Closed center | Self centering | 40/190 | 0.9 | DX2-616-BL49 |
| | 3 - 71mm | | | 55/330 | 1.4 | DX3-616-BL49 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/70 | 0.65 | DX1-611-BL49 |
| | 2 - 56mm | Vented center | Self centering | 40/140 | 0.9 | DX2-611-BL49 |
| | 3 - 71mm | | | 60/270 | 1.4 | DX3-611-BL49 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/65 | 0.65 | DX1-613-BL49 |
| | 2 - 56mm | Press. center | Self centering | 40/150 | 0.9 | DX2-613-BL49 |

Solenoid operated ISO valve fitted with CNOMO operator without coil

Solenoid plug/connector to be ordered separately. See page 57

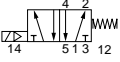
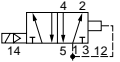
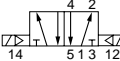
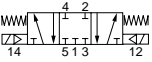
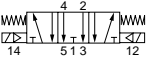
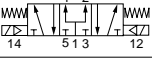
| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|--|----------|-------------------|-------------------|---|-----------|-------------------|
| 5/2 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Spring | 40/55 | 0.4 | DX1-621-BN |
| | 2 - 56mm | Electrical signal | Spring | 60/105 | 0.65 | DX2-621-BN |
| | 3 - 71mm | Electrical signal | Spring | 85/160 | 1.15 | DX3-621-BN |
|  | 1 - 43mm | Electrical signal | Differential | 30/70 | 0.4 | DX1-651-BN |
| | 2 - 56mm | Electrical signal | Differential | 55/110 | 0.65 | DX2-651-BN |
| | 3 - 71mm | Electrical signal | Differential | 80/180 | 1.15 | DX3-651-BN |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/25 | 0.55 | DX1-606-BN |
| | 2 - 56mm | Electrical signal | Electrical signal | 30/30 | 0.8 | DX2-606-BN |
| | 3 - 71mm | Electrical signal | Electrical signal | 40/40 | 1.3 | DX3-606-BN |
| 5/3 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Electrical signal | 30/95 | 0.55 | DX1-616-BN |
| | 2 - 56mm | Closed center | Self centering | 40/190 | 0.8 | DX2-616-BN |
| | 3 - 71mm | | | 55/330 | 1.3 | DX3-616-BN |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/70 | 0.55 | DX1-611-BN |
| | 2 - 56mm | Vented center | Self centering | 40/140 | 0.8 | DX2-611-BN |
| | 3 - 71mm | | | 60/270 | 1.3 | DX3-611-BN |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/65 | 0.55 | DX1-613-BN |
| | 2 - 56mm | Press. center | Self centering | 40/150 | 0.8 | DX2-613-BN |

Pneumatic operated ISO valve without valve spool override

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|---|----------|---------------|----------------|---|--------------|-------------------|
| 5/2 Valves | | | | | | |
|  | 1 - 43mm | Air signal | Spring | 30/45 | 0.35 | DX1-421-60 |
| | 2 - 56mm | Air signal | Spring | 50/95 | 0.6 | DX2-421-60 |
| | 3 - 71mm | Air signal | Spring | 80/160 | 1.1 | DX3-421-60 |
|  | 1 - 43mm | Air signal | Differential | 25/60 | 0.35 | DX1-451-60 |
| | 2 - 56mm | Air signal | Differential | 45/100 | 0.6 | DX2-451-60 |
| | 3 - 71mm | Air signal | Differential | 70/170 | 1.1 | DX3-451-60 |
|  | 1 - 43mm | Air signal | Air signal | 20/20 | 0.35 | DX1-406-60 |
| | 2 - 56mm | Air signal | Air signal | 25/25 | 0.6 | DX2-406-60 |
| | 3 - 71mm | Air signal | Air signal | 35/35 | 1.1 | DX3-406-60 |
| 5/3 Valves | | | | | | |
|  | 1 - 43mm | Air signal | Air signal | 20/80 | 0.35 | DX1-416-60 |
| | 2 - 56mm | Closed center | Self centering | 30/170 | 0.6 | DX2-416-60 |
| | 3 - 71mm | | | 45/330 | 1.1 | DX3-416-60 |
|  | 1 - 43mm | Air signal | Air signal | 20/65 | 0.35 | DX1-411-60 |
| | 2 - 56mm | Vented center | Self centering | 30/140 | 0.6 | DX2-411-60 |
| | 3 - 71mm | | | 50/270 | 1.1 | DX3-411-60 |
|  | 1 - 43mm | Air signal | Air signal | 20/60 | 0.35 | DX1-413-60 |
| | 2 - 56mm | Press. center | Self centering | 25/140 | 0.6 | DX2-413-60 |

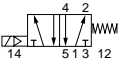
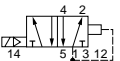
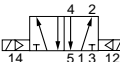
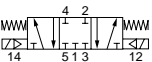
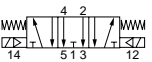
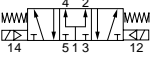
Solenoid operated ISO valve, CNOMO, 24 VDC with M12 coil

M12 connection is integrated on the coil, Led & surge suppressor

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|--|----------|-------------------|-------------------|---|-----------|---------------------|
| 5/2 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Spring | 40/55 | 0.5 | DX1-621-B619 |
| | 2 - 56mm | Electrical signal | Spring | 60/105 | 0.75 | DX2-621-B619 |
| | 3 - 71mm | Electrical signal | Spring | 85/160 | 1.25 | DX3-621-B619 |
|  | 1 - 43mm | Electrical signal | Differential | 30/70 | 0.5 | DX1-651-B619 |
| | 2 - 56mm | Electrical signal | Differential | 55/110 | 0.75 | DX2-651-B619 |
| | 3 - 71mm | Electrical signal | Differential | 80/180 | 1.25 | DX3-651-B619 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/25 | 0.65 | DX1-606-B619 |
| | 2 - 56mm | Electrical signal | Electrical signal | 30/30 | 0.9 | DX2-606-B619 |
| | 3 - 71mm | Electrical signal | Electrical signal | 40/40 | 1.4 | DX3-606-B619 |
| 5/3 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Electrical signal | 30/95 | 0.65 | DX1-616-B619 |
| | 2 - 56mm | Closed center | Self centering | 40/190 | 0.9 | DX2-616-B619 |
| | 3 - 71mm | | | 55/330 | 1.4 | DX3-616-B619 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/70 | 0.65 | DX1-611-B619 |
| | 2 - 56mm | Vented center | Self centering | 40/140 | 0.9 | DX2-611-B619 |
| | 3 - 71mm | | | 60/270 | 1.4 | DX3-611-B619 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/65 | 0.65 | DX1-613-B619 |
| | 2 - 56mm | Press. center | Self centering | 40/150 | 0.9 | DX2-613-B619 |

Solenoid operated ISO valve, CNOMO, 24 VDC with Din A coil and M12 connector

M12 connection is made with an adaptor between coils, Led & surge suppressor

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|--|----------|-------------------|-------------------|---|-----------|---------------------|
| 5/2 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Spring | 40/55 | 0.65 | DX1-621-B219 |
| | 2 - 56mm | Electrical signal | Spring | 60/105 | 0.9 | DX2-621-B219 |
| | 3 - 71mm | Electrical signal | Spring | 85/160 | 1.4 | DX3-621-B219 |
|  | 1 - 43mm | Electrical signal | Differential | 30/70 | 0.65 | DX1-651-B219 |
| | 2 - 56mm | Electrical signal | Differential | 55/110 | 0.9 | DX2-651-B219 |
| | 3 - 71mm | Electrical signal | Differential | 80/180 | 1.4 | DX3-651-B219 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/25 | 0.8 | DX1-606-B219 |
| | 2 - 56mm | Electrical signal | Electrical signal | 30/30 | 1.05 | DX2-606-B219 |
| | 3 - 71mm | Electrical signal | Electrical signal | 40/40 | 1.55 | DX3-606-B219 |
| 5/3 Valves | | | | | | |
|  | 1 - 43mm | Electrical signal | Electrical signal | 30/95 | 0.8 | DX1-616-B219 |
| | 2 - 56mm | Closed center | Self centering | 40/190 | 1.05 | DX2-616-B219 |
| | 3 - 71mm | | | 55/330 | 1.55 | DX3-616-B219 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/70 | 0.8 | DX1-611-B219 |
| | 2 - 56mm | Vented center | Self centering | 40/140 | 1.05 | DX2-611-B219 |
| | 3 - 71mm | | | 60/270 | 1.55 | DX3-611-B219 |
|  | 1 - 43mm | Electrical signal | Electrical signal | 25/65 | 0.8 | DX1-613-B219 |
| | 2 - 56mm | Press. center | Self centering | 40/150 | 1.05 | DX2-613-B219 |

ISYS ISO - Heavy Duty Applications

Market Applications

- Automotive
- Machine tools
- Mobile



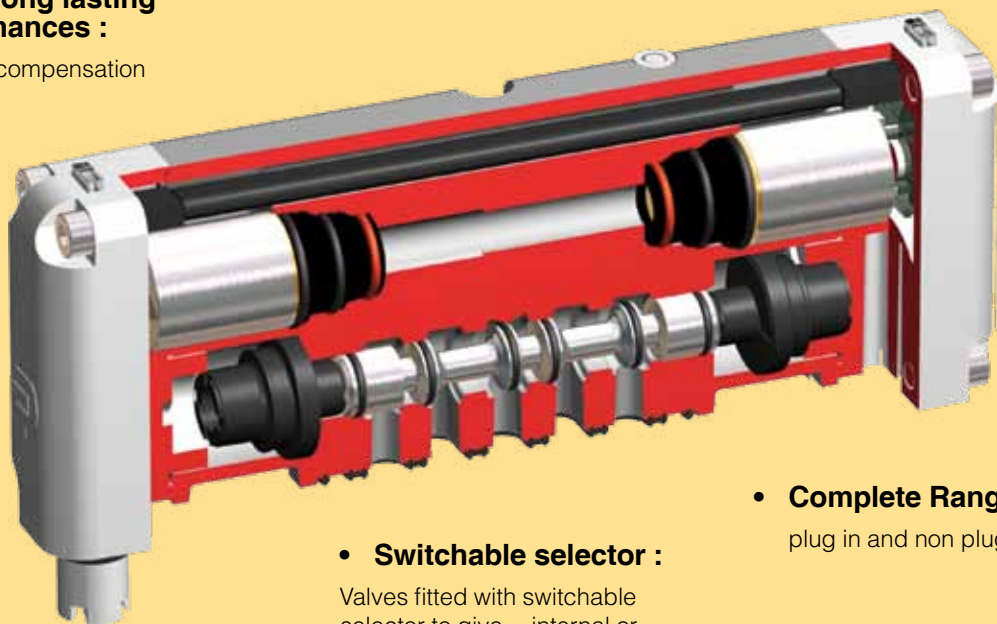
- **Stable long lasting performances :**

due to wear compensation

- **Excellent reliability :**

Long life in excess of 30 million operations.

- **Heavy Duty Metal Body**



- **Complete Range :**

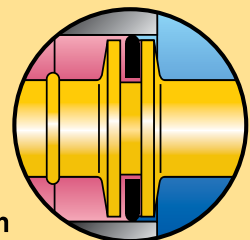
plug in and non plug in

- **Switchable selector :**

Valves fitted with switchable selector to give internal or external pilot supply

- **WCS Spool Technology**

WCS
Wear Compensating System



ISYS ISO Features

Complete ISO valve range

ISO 15407-1, ISO 15407-2, ISO 5599-1, ISO 5599-2, ISO 4400 DIN A, 12mm, 23 mm, multipole and centralized fieldbus are all feature of ISYS ISO valve.

Heavy duty and corrosion resistant body

with a valve body made of painted die casted aluminium and polyamide reinforced glassfiber caps, Isys Iso are suitable for heavy duty enviornment

External supply selection

In order to use actuator with low pressure, it is possible to connect an external pressure on port 14 to supply both solenoids. Selection is easily made by reversing the gasket under the operator.

High reliability



Valves comply with the requirements for the component reliability in accordance with EU Machinery Directive standards EN292-2 and EN983.

Mobile applications

ISYS ISO range could be fit with a metal mobile CNOMO solenoid. Available with different coil voltages, allowing +/- 30% voltage tolerance, operating from -15°C to 50°C, under demanding vibration and shock condition, ISYS ISO is suitable for mobile and railway applications.

Solenoid valves, CNOMO interface, integrated solenoid



The standard valve is fitted with a 30mm solenoid having DIN 43650 Industrial form A connector for sizes 1, 2 and 3. For sizes 01 and 02, the solenoid is integrated in the valve body.

Central M12 & M23 connection or M12 coil

Sizes 01 & 02 are available with a central M12 connection
 Sizes 1, 2 & 3 are available with a central M12 or M23 connector, compatible with differents automotive standard, but also with 30x30 coil having the M12 connection.

Internal or external led & rectifier

Sizes 01 & 02 have integrated Led and rectifier, for all connections. Sizes 1,2, 3 are available with integrated Led and rectifier in the coil or basic Din A coil.

High electrical encapsulation class



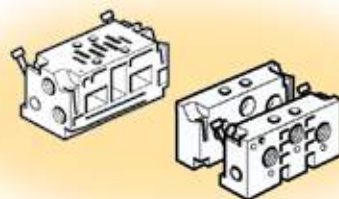
The solenoid valves are protected to IP65 with the standard cable plug. Available with DIN A or M12 connection.

Wide range of solenoid connectors / cable plugs for ISO 5599-1



Solenoid connectors are available with or without LED and rectifier and may be selected fitted pre-wired with flying leads.

Bottom or side ported manifolds and subbases



Manifolds are common for ISO 15407-1 & ISO 5599-1. A dedicated range of manifold is available for ISYS ISO with integrated electrical connection in the base (plug in)

Insensitive to dirty air

Thanks to large flow passage areas and the large flow diameter of 1.3 in the pilot valves, the ISO valve can be used in normal industrial or mobile environments without any problems of blocking. However the service life of the valve depends on the cleanliness of the air. Please refer to ISO 8573.

ISYS ISO - Features

Serial communication

ISYSNET provides an open communications protocol with a common platform that is compatible with all ISO valves. ISYSNET allows connecting with Ethernet IP, Profibus DP, ControlNet, and DeviceNet. The communication modules are IP65 protected and can be easily replaced by using latching mechanisms that eliminate the need for screws. DIP and rotary switches come standard, as well as electrical connection. A total of 63 Input / Output modules can be assembled with a single communication module node. Both digital (M8, M12, and M23 connection) and analog (current or voltage) Inputs / Outputs modules are available. Sinking (NPN) or sourcing (PNP) modules complete the connectivity solution. Built-in Diagnostic, such as open circuit, no-load, and short-circuit detection, simplify maintenance. The modules also have overvoltage protection and reverse-polarity protection.

Collective wiring

There are no wires between connectors and base circuit boards. Circuit boards make all connections throughout the manifold, decreasing opportunities for electrical failures due to loose wire. Plate cover for collective wiring has an IP65 rating. Main connector available on left end module are:

- 25 pin D-Sub connector allowing 24 solenoids
- 19 pin Brad Harrison round connector allowing 16 solenoids
- 12 pin M23 round connector allowing 8 solenoids
- 16 Point terminal strip, allowing 16 solenoids
- ISYS NET module, 32 outputs, allowing 32 solenoids

Hard wiring

In case of 110 or 230 VAC standard voltage, or for a small number of valves on the manifold, especially for sizes 2 & 3, hard wiring could be preferred. This method requires wiring each valve through a simple cable or a screw terminal.

ISO 15407-2 manifolds

Using ISO 15407 standards as foundation, the Isys line leapfrogs proprietary valves to install 18 and 26 mm valves within the same manifold.

Manifold bases are available in two-station multiple.

Two-station manifolds increase rigidity for longer manifolds and decrease the number of base-to-base electrical and pneumatic connections, reducing the potential for leaks and electrical misconnections. Cylinder ports are available with BSPP, NPT in inch sizes.

Manifold bases are available with side or side and bottom ported.

Oversize ports for ISO 5599-2 manifolds

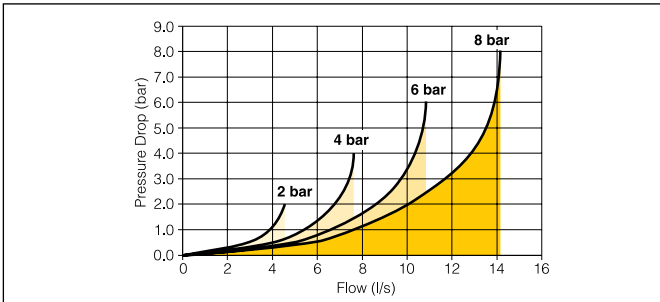
Due to the standardized size of bases and valve, the resulting flow is limited by port size. All manifolds for size 1, 2, and 3 are available with an oversize port to optimize the flow for size. As an example, size 1 valve and manifold, equipped with a 3/8 port is suitable with a 100mm diameter cylinder where a size 2 valve will have been chosen.

This is all the more true than the cylinder speed is limited with flow control and adjusted near 0,5m/s

ISYS ISO Flow Characteristics

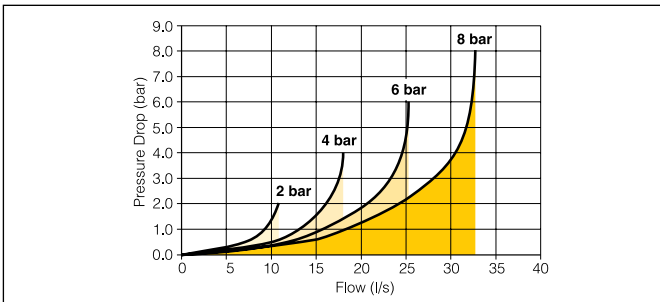
Flow capacities in accordance with ISO6358, for 5/2 function. 5/3 function are around 10 to 20% less

Technical Data ISYS ISO Size 02



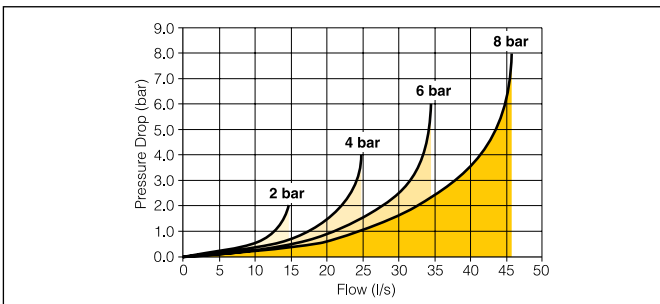
| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 2,0 - 10 bar |
| 5/2 Differential | 2,0 - 10 bar |
| 5/2 Double solenoid | 2,0 - 10 bar |
| 5/3 Double solenoid | 2,5 - 10 bar |
| Working temperature. | |
| -15°C to + 50°C | |
| Flow (acc. to ISO 6358) | |
| c = 1,5 NI/s x bar | |
| b = 0,25 | |
| Qn = 6,5 l/s | |
| Qmax = 10,8 l/s | |

Technical Data ISYS ISO Size 01



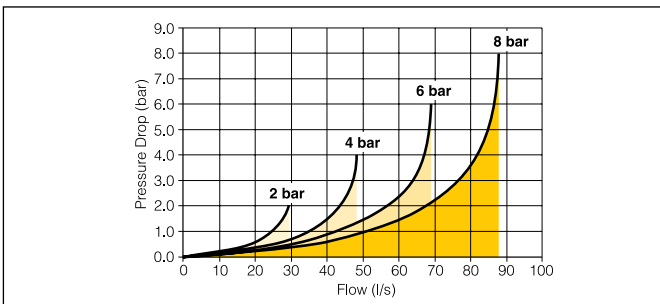
| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 2,0 - 10 bar |
| 5/2 Differential | 1,7 - 10 bar |
| 5/2 Double solenoid | 1,7 - 10 bar |
| 5/3 Double solenoid | 2,5 - 10 bar |
| Working temperature. | |
| -15°C to + 50°C | |
| Flow (acc. to ISO 6358) | |
| c = 3,6 NI/s x bar | |
| b = 0,30 | |
| Qn = 15,3 l/s | |
| Qmax = 25,3 l/s | |

Technical Data ISYS ISO Size 1



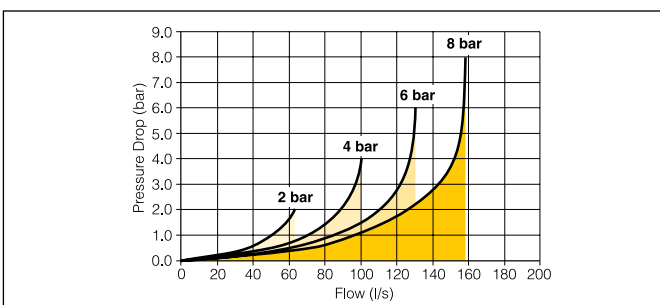
| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 2,4 - 10 bar |
| 5/2 Differential | 1,7 - 10 bar |
| 5/2 Double solenoid | 1,7 - 10 bar |
| 5/3 Double solenoid | 2,5 - 10 bar |
| Working temperature. | |
| -15°C to + 50°C | |
| Flow (acc. to ISO 6358) | |
| c = 5,0 NI/s x bar | |
| b = 0,30 | |
| Qn = 20,8 l/s | |
| Qmax = 34,5 l/s | |

Technical Data ISYS ISO Size 2



| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 3,1 - 10 bar |
| 5/2 Differential | 1,7 - 10 bar |
| 5/2 Double solenoid | 1,7 - 10 bar |
| 5/3 Double solenoid | 3,5 - 10 bar |
| Working temperature. | |
| -15°C to + 50°C | |
| Flow (acc. to ISO 6358) | |
| c = 9,7 NI/s x bar | |
| b = 0,35 | |
| Qn = 42,0 l/s | |
| Qmax = 69,0 l/s | |

Technical Data ISYS ISO Size 3



| | |
|-------------------------|--------------|
| Operating pressure. | |
| 5/2 Spring return | 3,1 - 10 bar |
| 5/2 Differential | 2,5 - 10 bar |
| 5/2 Double solenoid | 2,5 - 10 bar |
| 5/3 Double solenoid | 3,5 - 10 bar |
| Working temperature. | |
| -15°C to + 50°C | |
| Flow (acc. to ISO 6358) | |
| c = 18,7 NI/s x bar | |
| b = 0,35 | |
| Qn = 83,7 l/s | |
| Qmax = 130,8 l/s | |

ISYS ISO Material Specification and Characteristics

Material specification

| | |
|--------------------|----------------------------|
| Valve body: | Die cast aluminium |
| End cover: | PBT |
| Spool: | Aluminium + nitrile rubber |
| Piston: | Acetal plastic |
| End cover sealing: | Nitrile rubber |
| Fasteners: | Zinc plated steel |

HA & HB Solenoids

| | |
|----------------------------|---------------------|
| Minimum operating voltage: | DC 20,4 V, AC 102 V |
| Power: | DC 1W, AC 2VA |
| Bi polar: | |
| Surge suppressor: | Standard |
| Light indicator: | Standard |

Characteristics

| | |
|--|---|
| Fluid: | Air, inert gas filtered 40u class 5 according to ISO 8573-1 dry class 4 according to ISO 8573-1 non-lubricated, or lubricated -20° to + 70° |
| Storage temperature Vibration, according to IEC 68-2-6 | 2G 2 to 150Hz |
| Shock, according to IEC 68-2-7 | 15G 11ms |
| Manual override | Non-locking, other type on request |

Plug-in Solenoids

| | |
|----------------------------|---------------------|
| Minimum operating voltage: | DC 20,4 V, AC 102 V |
| Power: | DC 3W, AC 4,5VA |
| Bi polar: | |
| Surge suppressor: | On lighted coils |
| Light indicator: | Standard |

Certification

| | |
|-------------------------|----------------------------|
| CSA / C-US approved | |
| EMC / CE mark. | According to EN 61 000-6-2 |
| Dust & water protection | IP65 according to EN 60529 |

ISYS ISO M12 and Pilot

Order chart

| | | | | | | | | | |
|----------|----------|----------|-----------|----------|----------|----------|-----------|-------------|----------|
| H | B | 1 | WX | B | G | 2 | G9 | 000F | A |
|----------|----------|----------|-----------|----------|----------|----------|-----------|-------------|----------|

| | | | | | |
|----------|------------------|----------|-------------------------------------|-----------|----------------|
| | Size | | Pilot source / Pilot exhaust | | Voltage |
| B | ISO 15407 - 18mm | B | Internal pilot, port#1 / vented | B | DC |
| A | ISO 15407 - 26mm | L | External pilot#14 port / vented | G9 | 24 |

| | | | |
|----------|--|----------|--|
| | Valve type function | | Overrides |
| 1 | Single solenoid, 2 position - Differential | G | Non-locking, flush, push - w/ light |
| 2 | Double solenoid, 2 position | H | Locking, flush, push / turn - w/ light |
| 5 | Double solenoid, 3 position - APB | | |
| 6 | Double solenoid, 3 position - CE | | |
| 7 | Double solenoid, 3 position - PC | | |
| E | Single solenoid, 2 position, Differential, spring assist | | |

| | |
|----------|-------------|
| 2 | Central M12 |
|----------|-------------|

Shaded voltage part numbers are available from stock.
 Unshaded part numbers are available on request but will be subject to minimum order quantities.
 Otherwise order coil/solenoid and valve separately.

Shaded part numbers are standard

ISYS ISO

ISYS ISO Remote Pilot

Order chart

| | | | |
|----------|----------|----------|--------------------|
| H | B | 3 | WX 000 XX A |
|----------|----------|----------|--------------------|

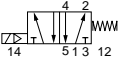
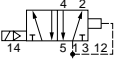
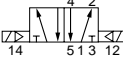
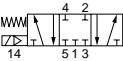
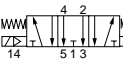
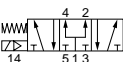
| | | | |
|----------|------------------|----------|--|
| | Size | | Valve type function |
| B | ISO 15407 - 18mm | 3 | Single remote pilot, 2 position - Differential |
| A | ISO 15407 - 26mm | 4 | Double remote pilot, 2 position |
| | | 8 | Double remote pilot, 3 position - APB |
| | | 9 | Double remote pilot, 3 position - CE |
| | | 0 | Double remote pilot, 3 position - PC |
| | | F | Single solenoid, 2 position, Differential, spring assist |

Shaded part numbers are standard

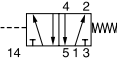
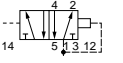
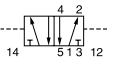
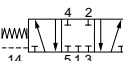
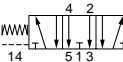
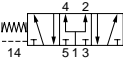
ISYS ISO

Solenoid operated ISO valve, 24 VDC, central M12 connection

Oriented side 14, Led & surge suppressor

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|---|------------------------|--|--|---|----------------|--|
| 5/2 Valves | | | | | | |
|  | 02 - 18mm 01 - 26mm | Electrical signal Electrical signal | Spring & Diff. Spring & Diff. | 20/40 20/45 | 0.15 0.25 | HBEXXBG2G9000FA HAEXXBG2G9000FA |
|  | 02 - 18mm 01 - 26mm | Electrical signal Electrical signal | Differential Differential | 15/40 15/50 | 0.15 0.25 | HB1WXXBG2G9000FA HA1WXXBG2G9000FA |
|  | 02 - 18mm 01 - 26mm | Electrical signal Electrical signal | Electrical signal Electrical signal | 10 10 | 0.165 0.265 | HB2WXXBG2G9000FA HA2WXXBG2G9000FA |
| 5/3 Valves | | | | | | |
|  | 02 - 18mm 01 - 26mm | Electrical signal Closed center | Electrical signal Self centering | 15/60 15/50 | 0.165 0.265 | HB5WXXBG2G9000FA HA5WXXBG2G9000FA |
|  | 02 - 18mm 01 - 26mm | Electrical signal Vented center | Electrical signal Self centering | 15/60 15/50 | 0.165 0.265 | HB6WXXBG2G9000FA HA6WXXBG2G9000FA |
|  | 02 - 18mm 01 - 26mm | Electrical signal Press. center | Electrical signal Self centering | 15/60 15/50 | 0.165 0.265 | HB7WXXBG2G9000FA HA7WXXBG2G9000FA |

Pneumatic operated ISO valve

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|---|------------------------|-----------------------------|----------------------------------|---|----------------|--|
| 5/2 Valves | | | | | | |
|  | 02 - 18mm 01 - 26mm | Air signal Air signal | Spring & Diff. Spring & Diff. | 15/30 15/40 | 0.115 0.215 | HBFWX000XXA HAFWX000XXA |
|  | 02 - 18mm 01 - 26mm | Air signal Air signal | Differential Differential | 10/30 15/35 | 0.115 0.215 | HB3WX000XXA HA3WX000XXA |
|  | 02 - 18mm 01 - 26mm | Air signal Air signal | Air signal Air signal | 8 10 | 0.115 0.215 | HB4WX000XXA HA4WX000XXA |
| 5/3 Valves | | | | | | |
|  | 02 - 18mm 01 - 26mm | Air signal Closed center | Air signal Self centering | 15/35 15/40 | 0.115 0.215 | HB8WX000XXA HA8WX000XXA |
|  | 02 - 18mm 01 - 26mm | Air signal Vented center | Air signal Self centering | 15/35 15/40 | 0.115 0.215 | HB9WX000XXA HA9WX000XXA |
|  | 02 - 18mm 01 - 26mm | Air signal Press. center | Air signal Self centering | 15/35 15/40 | 0.115 0.215 | HB0WX000XXA HA0WX000XXA |

 Indicates stocked product.

ISYS ISO Plug in

Order chart

H
B
1
VX
B
G
0
G9
A

| Size | |
|----------|------------------|
| B | ISO 15407 - 18mm |
| A | ISO 15407 - 26mm |

| Pilot source / Pilot exhaust | |
|------------------------------|---------------------------------|
| B | Internal pilot, port#1 / vented |
| L | External pilot#14 port / vented |

| Voltage | |
|-----------|---------|
| G9 | 24 VDC |
| 23 | 115 VAC |


| Valve type function | |
|---------------------|---|
| 1 | Single solenoid, 2 position - Differential |
| 2 | Double solenoid, 2 position |
| 5 | Double solenoid, 3 position - APB |
| 6 | Double solenoid, 3 position - CE |
| 7 | Double solenoid, 3 position - PC |
| E | Single solenoid, 2 position, Air return, spring assist |

| Overrides | |
|-----------|--|
| G | Non-locking, flush, push - w/ light |
| H | Locking, flush, push / turn - w/ light |

Shaded voltage part numbers are available from stock.
 Unshaded part numbers are available on request but will be subject to minimum order quantities.
 Otherwise order coil/solenoid and valve separately.

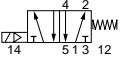
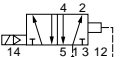
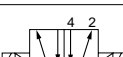
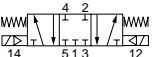

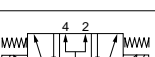
* Only available with pilot source / pilot exhaust 'O'.
 Available on HA only, must use DX01 manifold or HA subbase

Shaded part numbers are standard



Solenoid operated ISO plug-in valve, 24 VDC

Manual override non locking, Led & surge suppressor

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|---|------------------------|--|--|---|----------------|--|
| 5/2 Valves | | | | | | |
|  | 02 - 18mm 01 - 26mm | Electrical signal Electrical signal | Spring & Diff. Spring & Diff. | 20/40 20/45 | 0.13 0.23 | HBEVXBG0G9A HAEVXBG0G9A |
|  | 02 - 18mm 01 - 26mm | Electrical signal Electrical signal | Differential Differential | 15/40 15/50 | 0.13 0.23 | HB1VXBG0G9A HA1VXBG0G9A |
|  | 02 - 18mm 01 - 26mm | Electrical signal Electrical signal | Electrical signal Electrical signal | 10 10 | 0.145 0.245 | HB2VXBG0G9A HA2VXBG0G9A |
| 5/3 Valves | | | | | | |
|  | 02 - 18mm 01 - 26mm | Electrical signal Closed center | Electrical signal Self centering | 15/60 15/50 | 0.145 0.245 | HB5VXBG0G9A HA5VXBG0G9A |
|  | 02 - 18mm 01 - 26mm | Electrical signal Vented center | Electrical signal Self centering | 15/60 15/50 | 0.145 0.245 | HB6VXBG0G9A HA6VXBG0G9A |
|  | 02 - 18mm 01 - 26mm | Electrical signal Press. center | Electrical signal Self centering | 15/60 15/50 | 0.145 0.245 | HB7VXBG0G9A HA7VXBG0G9A |

ISYS ISO - ISO 5599-1 - CNOMO - Size 1 / 2 / 3

Order chart

H
1
E
WX
B
B
L
49
C

| Size | |
|------|---------------------|
| 1 | ISO 5599-1 - Size 1 |
| 2 | ISO 5599-1 - Size 2 |
| 3 | ISO 5599-1 - Size 3 |

| Pilot source / Pilot exhaust | |
|------------------------------|--|
| B | Internal pilot#1 port / vented |
| X* | External pilot#12 or #14 port / vented |

* Must be specified when using Sandwich regulators

| Voltage | |
|---------|-----------------|
| 42 | 24 VAC |
| 49 | 24 VDC |
| 53 | 120 VAC |
| 57 | 230 VAC |
| XX | Valve less coil |

Shaded voltage part numbers are available from stock.
 Unshaded part numbers are available on request but will be subject to minimum order quantities.
 Otherwise order coil/solenoid and valve separately.

| Valve type function | |
|---------------------|--|
| 1 | Single solenoid, 2 position - Differential |
| 2 | Double solenoid, 2 position |
| 5 | Double solenoid, 3 position - APB |
| 6 | Double solenoid, 3 position - CE |
| 7 | Double solenoid, 3 position - PC |
| E | Single solenoid, 2 position, Differential, spring assist |

| Enclosure / Lead lengths | |
|--------------------------|---|
| L | 3-pin 30mm DIN 43650A with CNOMO operator |
| N | Valve less coil |

| Overrides / Lights | |
|--------------------|---|
| B | Non-locking, flush, push - w/o light |
| C | Locking, flush, push / turn - w/o light |

Shaded part numbers are standard



Solenoid operated ISO valve fitted with CNOMO solenoid(s) 24 VDC

solenoid plug/connector to be ordered separately. See page 58

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|-------------------|----------|-------------------|-------------------|---|-----------|--------------------|
| 5/2 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Spring & Diff. | 25/35 | 0.77 | H1EWXBBL49C |
| | 2 - 56mm | Electrical signal | Spring & Diff. | 40/70 | 1.19 | H2EWXBBL49C |
| | 3 - 71mm | Electrical signal | Spring & Diff. | 70/80 | 1.47 | H3EWXBBL49C |
| | 1 - 43mm | Electrical signal | Differential | 25/45 | 0.77 | H11WXBBL49C |
| | 2 - 56mm | Electrical signal | Differential | 35/80 | 1.19 | H21WXBBL49C |
| | 3 - 71mm | Electrical signal | Differential | 55/85 | 1.47 | H31WXBBL49C |
| | 1 - 43mm | Electrical signal | Electrical signal | 15 | 0.94 | H12WXBBL49C |
| | 2 - 56mm | Electrical signal | Electrical signal | 20 | 1.36 | H22WXBBL49C |
| | 3 - 71mm | Electrical signal | Electrical signal | 25 | 1.64 | H32WXBBL49C |
| 5/3 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Electrical signal | 15/60 | 0.94 | H15WXBBL49C |
| | 2 - 56mm | Closed center | Self centering | 30/75 | 1.36 | H25WXBBL49C |
| | 3 - 71mm | | | 23/80 | 1.64 | H35WXBBL49C |
| | 1 - 43mm | Electrical signal | Electrical signal | 15/60 | 0.94 | H16WXBBL49C |
| | 2 - 56mm | Vented center | Self centering | 30/75 | 1.36 | H26WXBBL49C |
| | 3 - 71mm | | | 23/80 | 1.64 | H36WXBBL49C |
| | 1 - 43mm | Electrical signal | Electrical signal | 15/60 | 0.94 | H17WXBBL49C |
| | 2 - 56mm | Press. center | Self centering | 30/75 | 1.36 | H27WXBBL49C |
| | 3 - 71mm | | | 23/80 | 1.64 | H37WXBBL49C |

Solenoid operated ISO valve fitted with CNOMO operator without coil

Coils and plug/connector should be ordered separately. See page 57

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|-------------------|----------|-------------------|-------------------|---|-----------|---------------------|
| 5/2 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Spring & Diff. | 25/35 | 0.65 | H1EWXB BNXXC |
| | 2 - 56mm | Electrical signal | Spring & Diff. | 40/70 | 1.07 | H2EWXB BNXXC |
| | 3 - 71mm | Electrical signal | Spring & Diff. | 70/80 | 1.35 | H3EWXB BNXXC |
| | 1 - 43mm | Electrical signal | Differential | 25/45 | 0.65 | H11WXB BNXXC |
| | 2 - 56mm | Electrical signal | Differential | 35/80 | 1.07 | H21WXB BNXXC |
| | 3 - 71mm | Electrical signal | Differential | 55/85 | 1.35 | H31WXB BNXXC |
| | 1 - 43mm | Electrical signal | Electrical signal | 15 | 0.7 | H12WXB BNXXC |
| | 2 - 56mm | Electrical signal | Electrical signal | 20 | 1.12 | H22WXB BNXXC |
| | 3 - 71mm | Electrical signal | Electrical signal | 25 | 1.4 | H32WXB BNXXC |
| 5/3 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Electrical signal | 15/60 | 0.7 | H15WXB BNXXC |
| | 2 - 56mm | Closed center | Self centering | 30/75 | 1.12 | H25WXB BNXXC |
| | 3 - 71mm | | | 23/80 | 1.4 | H35WXB BNXXC |
| | 1 - 43mm | Electrical signal | Electrical signal | 15/60 | 0.7 | H16WXB BNXXC |
| | 2 - 56mm | Vented center | Self centering | 30/75 | 1.12 | H26WXB BNXXC |
| | 3 - 71mm | | | 23/80 | 1.4 | H36WXB BNXXC |
| | 1 - 43mm | Electrical signal | Electrical signal | 15/60 | 0.7 | H17WXB BNXXC |
| | 2 - 56mm | Press. center | Self centering | 30/75 | 1.12 | H27WXB BNXXC |
| | 3 - 71mm | | | 23/80 | 1.4 | H37WXB BNXXC |

ISYS ISO 5599-1 Size 1 / 2 / 3 Central Connection

Order chart

H 1 E WX B G 2 B9 000 F C

| Size | |
|------|---------------------|
| 1 | ISO 5599-1 - Size 1 |
| 2 | ISO 5599-1 - Size 2 |
| 3 | ISO 5599-1 - Size 3 |

| Pilot source / Pilot exhaust | |
|------------------------------|---------------------------------|
| B | Internal pilot#1 port / vented |
| X* | External pilot#12 port / vented |

* Must be specified when using Sandwich regulators


| Wiring options | |
|----------------|----------|
| F | Standard |

| Enclosure / Voltage | |
|---------------------|-------------------------------|
| 2B9 | 4-pin M12 Connector 24 VDC |
| 619 | 2-pin M12 on coil 24 VDC |

| Overrides / Lights | |
|--------------------|--|
| G | Non-locking, flush, push - w/ light |
| H | Locking, flush, push / turn - w/ light |

| Valve type function | |
|---------------------|---|
| 1 | Single solenoid, 2 position - Differential |
| 2 | Double solenoid, 2 position |
| 5 | Double solenoid, 3 position - APB |
| 6 | Double solenoid, 3 position - CE |
| 7 | Double solenoid, 3 position - PC |
| E | Single solenoid, 2 position, Differential, spring assist |

Shaded part numbers are standard



ISYS ISO

ISYS ISO 5599-1 Size 1 / 2 / 3 Remote Pilot


Order chart

H 1 F WX 000 XX C

| Size | |
|------|---------------------|
| 1 | ISO 5599-1 - Size 1 |
| 2 | ISO 5599-1 - Size 2 |
| 3 | ISO 5599-1 - Size 3 |

| Valve type function | |
|---------------------|---|
| 3 | Single remote pilot, 2 position - Differential |
| 4 | Double remote pilot, 2 position |
| 8 | Double remote pilot, 3 position - APB |
| 9 | Double remote pilot, 3 position - CE |
| 0 | Double remote pilot, 3 position - PC |
| F | Single remote pilot, 2 position, Differential, spring assist |

Shaded part numbers are standard



ISYS ISO

Solenoid operated ISO valve, 24VDC, central M12 connection

Oriented side 14, Led & surge suppressor

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|-------------------|----------|-------------------|-------------------|---|-----------|--|
| 5/2 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Spring & Diff. | 30/40 | 0.77 | H1EWXBG2B9000FC H2EWXBG2B9000FC H3EWXBG2B9000FC |
| | 2 - 56mm | Electrical signal | Spring & Diff. | 45/70 | 1.29 | |
| | 3 - 71mm | Electrical signal | Spring & Diff. | 75/80 | 1.57 | |
| | 1 - 43mm | Electrical signal | Differential | 30/50 | 0.77 | H11WXBG2B9000FC H21WXBG2B9000FC H31WXBG2B9000FC |
| | 2 - 56mm | Electrical signal | Differential | 40/80 | 1.29 | |
| | 3 - 71mm | Electrical signal | Differential | 60/85 | 1.57 | |
| | 1 - 43mm | Electrical signal | Electrical signal | 20 | 1.04 | H12WXBG2B9000FC H22WXBG2B9000FC H32WXBG2B9000FC |
| | 2 - 56mm | Electrical signal | Electrical signal | 25 | 1.46 | |
| | 3 - 71mm | Electrical signal | Electrical signal | 30 | 1.74 | |
| 5/3 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 1.04 | H15WXBG2B9000FC H25WXBG2B9000FC H35WXBG2B9000FC |
| | 2 - 56mm | Closed center | Self centering | 35/80 | 1.46 | |
| | 3 - 71mm | | | 40/85 | 1.74 | |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 1.04 | H16WXBG2B9000FC H26WXBG2B9000FC H36WXBG2B9000FC |
| | 2 - 56mm | Vented center | Self centering | 35/80 | 1.46 | |
| | 3 - 71mm | | | 40/85 | 1.74 | |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 1.04 | H17WXBG2B9000FC H27WXBG2B9000FC H37WXBG2B9000FC |
| | 2 - 56mm | Press. center | Self centering | 35/80 | 1.46 | |
| | 3 - 71mm | | | 40/85 | 1.74 | |

Pneumatic operated ISO valve without manual override

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|-------------------|----------|---------------|----------------|---|-----------|--|
| 5/2 Valves | | | | | | |
| | 1 - 43mm | Air signal | Spring & Diff. | 20/30 | 0.6 | H1FWX000XXC H2FWX000XXC H3FWX000XXC |
| | 2 - 56mm | Air signal | Spring & Diff. | 35/70 | 1.02 | |
| | 3 - 71mm | Air signal | Spring & Diff. | 65/75 | 1.3 | |
| | 1 - 43mm | Air signal | Differential | 20/40 | 0.6 | H13WX000XXC H23WX000XXC H33WX000XXC |
| | 2 - 56mm | Air signal | Differential | 30/80 | 1.02 | |
| | 3 - 71mm | Air signal | Differential | 50/85 | 1.3 | |
| | 1 - 43mm | Air signal | Air signal | 12 | 0.6 | H14WX000XXC H24WX000XXC H34WX000XXC |
| | 2 - 56mm | Air signal | Air signal | 16 | 1.02 | |
| | 3 - 71mm | Air signal | Air signal | 20 | 1.3 | |
| 5/3 Valves | | | | | | |
| | 1 - 43mm | Air signal | Air signal | 15/55 | 0.6 | H18WX000XXC H28WX000XXC H38WX000XXC |
| | 2 - 56mm | Closed center | Self centering | 20/70 | 1.12 | |
| | 3 - 71mm | | | 30/80 | 1.3 | |
| | 1 - 43mm | Air signal | Air signal | 15/55 | 0.6 | H19WX000XXC H29WX000XXC H39WX000XXC |
| | 2 - 56mm | Vented center | Self centering | 20/70 | 1.02 | |
| | 3 - 71mm | | | 30/80 | 1.3 | |
| | 1 - 43mm | Air signal | Air signal | 15/55 | 0.6 | H10WX000XXC H20WX000XXC H30WX000XXC |
| | 2 - 56mm | Press. center | Self centering | 20/70 | 1.02 | |
| | 3 - 71mm | | | 30/80 | 1.3 | |

ISYS ISO - 5599-2 - Size 1 / 2 / 3 - Plug in
Order chart

| | | | | | | | | |
|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|
| H | 1 | E | VX | B | G | 0 | B9 | C |
|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|

| Size | |
|----------|---------------------|
| 1 | ISO 5599-2 - Size 1 |
| 2 | ISO 5599-2 - Size 2 |
| 3 | ISO 5599-2 - Size 3 |

| Pilot source / Pilot exhaust | |
|------------------------------|--|
| B | Internal pilot#1 port / vented |
| X* | External pilot#12 or #14 port / vented |

* Must be specified when using Sandwich regulators

| Voltage & Frequency ** | | | | |
|------------------------|-----------------|------|----|-------------------|
| | AC | | DC | Light & surge sup |
| | 60Hz | 50Hz | | |
| 42 | | | | |
| 45 | | | 12 | |
| B9* | | | 24 | LED & Sup |
| 23 | 120 | 115 | | LED & Sup |
| 57 | 240 | | | |
| XX | Valve less coil | | | |

* Solenoid is blue

| Valve type function | |
|---------------------|--|
| 1 | Single solenoid, 2 position - Differential |
| 2 | Double solenoid, 2 position |
| 5 | Double solenoid, 3 position - APB |
| 6 | Double solenoid, 3 position - CE |
| 7 | Double solenoid, 3 position - PC |
| E | Single solenoid, 2 position, Differential, spring assist |

* Only available with pilot source / pilot exhaust 'O'.

| Enclosure | |
|-----------|----------------------|
| 0 | Non, Valve with coil |
| N | Non, Valve less coil |

| Overrides / Lights | |
|--------------------|--|
| B | Non-locking, flush, push - w/o light |
| C | Locking, flush, push / turn - w/o light |
| G | Non-locking, flush, push - with light |
| H | Locking, flush, push / turn - with light |

Shaded part numbers are standard

Shaded voltage part numbers are available from stock.
 Unshaded part numbers are available on request but will be subject to minimum order quantities.
 Otherwise order coil/solenoid and valve separately.

ISYS ISO

Subbase & Manifolds - See pages 34 - 36

Solenoid operated ISO valve, 24VDC, Plug-in

Led & surge suppressor

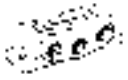
| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|-------------------|----------|-------------------|-------------------|---|-----------|--------------------|
| 5/2 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Spring & Diff. | 30/40 | 0.77 | H1EVXBG0B9C |
| | 2 - 56mm | Electrical signal | Spring & Diff. | 45/70 | 1.19 | H2EVXBG0B9C |
| | 3 - 71mm | Electrical signal | Spring & Diff. | 75/80 | 1.47 | H3EVXBG0B9C |
| | 1 - 43mm | Electrical signal | Differential | 30/50 | 0.77 | H11VXBG0B9C |
| | 2 - 56mm | Electrical signal | Differential | 40/80 | 1.19 | H21VXBG0B9C |
| | 3 - 71mm | Electrical signal | Differential | 60/85 | 1.47 | H31VXBG0B9C |
| | 1 - 43mm | Electrical signal | Electrical signal | 20 | 0.94 | H12VXBG0B9C |
| | 2 - 56mm | Electrical signal | Electrical signal | 25 | 1.36 | H22VXBG0B9C |
| | 3 - 71mm | Electrical signal | Electrical signal | 30 | 1.64 | H32VXBG0B9C |
| 5/3 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 0.94 | H15VXBG0B9C |
| | 2 - 56mm | Closed center | Self centering | 35/80 | 1.36 | H25VXBG0B9C |
| | 3 - 71mm | | | 40/85 | 1.64 | H35VXBG0B9C |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 0.94 | H16VXBG0B9C |
| | 2 - 56mm | Vented center | Self centering | 35/80 | 1.36 | H26VXBG0B9C |
| | 3 - 71mm | | | 40/85 | 1.64 | H36VXBG0B9C |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 0.94 | H17VXBG0B9C |
| | 2 - 56mm | Press. center | Self centering | 35/80 | 1.36 | H27VXBG0B9C |
| | 3 - 71mm | | | 40/85 | 1.64 | H37VXBG0B9C |

Solenoid operated ISO valve, with plug in operator, without coil


coil have to be ordered separately, see page 40

| Symbol | Size | Actuation | Return | Changeover time (ms) at 6 bar actua./return | Weight kg | Order code |
|-------------------|----------|-------------------|-------------------|---|-----------|--------------------|
| 5/2 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Spring & Diff. | 30/40 | 0.65 | H1EVXBGNXXC |
| | 2 - 56mm | Electrical signal | Spring & Diff. | 45/70 | 1.07 | H2EVXBGNXXC |
| | 3 - 71mm | Electrical signal | Spring & Diff. | 75/80 | 1.35 | H3EVXBGNXXC |
| | 1 - 43mm | Electrical signal | Differential | 30/50 | 0.65 | H11VXBGNXXC |
| | 2 - 56mm | Electrical signal | Differential | 40/80 | 1.07 | H21VXBGNXXC |
| | 3 - 71mm | Electrical signal | Differential | 60/85 | 1.35 | H31VXBGNXXC |
| | 1 - 43mm | Electrical signal | Electrical signal | 20 | 0.7 | H12VXBGNXXC |
| | 2 - 56mm | Electrical signal | Electrical signal | 25 | 1.12 | H22VXBGNXXC |
| | 3 - 71mm | Electrical signal | Electrical signal | 30 | 1.4 | H32VXBGNXXC |
| 5/3 Valves | | | | | | |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 0.7 | H15VXBGNXXC |
| | 2 - 56mm | Closed center | Self centering | 35/80 | 1.12 | H25VXBGNXXC |
| | 3 - 71mm | | | 40/85 | 1.4 | H35VXBGNXXC |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 0.7 | H16VXBGNXXC |
| | 2 - 56mm | Vented center | Self centering | 35/80 | 1.12 | H26VXBGNXXC |
| | 3 - 71mm | | | 40/85 | 1.4 | H36VXBGNXXC |
| | 1 - 43mm | Electrical signal | Electrical signal | 20/65 | 0.7 | H17VXBGNXXC |
| | 2 - 56mm | Press. center | Self centering | 35/80 | 1.12 | H27VXBGNXXC |
| | 3 - 71mm | | | 40/85 | 1.4 | H37VXBGNXXC |


Side ported subbase

| Description | Port size | Weight (kg) | Order code BSPP "G" | Order code NPT |
|--|-----------|-------------|---------------------|-------------------------------------|
|  <p>Individual subbase kit Subbase with side port</p> | Size 02 | G1/8 | 0.07 | PL02-01-70 PL02-01-80 |
| | Size 01 | G1/4 | 0.12 | PL01-02-70 PL01-02-80 |



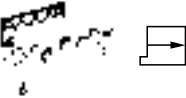
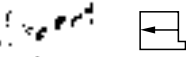
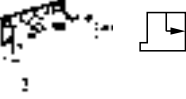
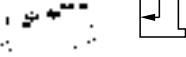
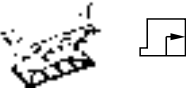
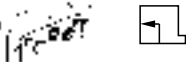

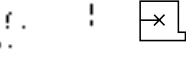

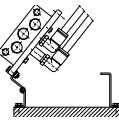

Side ported manifold

| Description | Port size | Weight (kg) | Order code BSPP "G" | Order code NPT |
|---|--|-------------|---------------------|---|
|  <p>Two station manifold base with side ports To suit valves with internal supply solenoid</p> | Size 02 | G1/8 | 0.14 | PJLP02-201-70 PJLP02-201-80 |
| | Size 01 | G1/4 | 0.7 | PJLP01-202-70 PJLP01-202-80 |
| | <p>Two station manifold base To suit pneumatic actuated valves</p> | | | |
| Size 01 | G1/4 | 0.73 | PJL01-202-70 | PJL01-202-80 |
| <p>End plate kit - for side ported two station manifold base</p> | | | | |
| Size 02 | G1/4 | 0.15 | PEJ02-02-70 | PEJ02-02-80* |
| Size 01 | G3/8 | 0.52 | PEJ01-03-70 | PEJ01-03-80** |
| <p>* Use with PJLP02 ** Use with PJLP01 or PJL01 Gaskets and assembly hardware included.</p> | | | | |


Accessories

| Description | Weight (kg) | Order code |
|--|---|---------------|
|  <p>Blanking plate</p> | Size 02 | 0.04 |
| | Size 01 | 0.05 |
| | <p>Blanking plug (for subbase PJL)</p> | |
| Size 02 | 0.01 | D02BD0 |
| Size 01 | 0.02 | D01BD0 |

Bottom ported manifolds


| Accessories | Designation | Weight (kg) | Order code (P2V-A, 18 mm) | Weight (kg) | Order code (P2V-B, 26 mm) |
|---|---|-------------|---------------------------|-------------|---------------------------|
|  | Multiple manifold Including seal, fitting screws and plugs. Ports 2, 4, and 14 are bottom-connected. Fit plugs as required to provide common supply of operating air and common exhausts for solenoid valves. Plug assembly instruction, see page 35. | 0,20 | P2V-AM511NB | 0,40 | P2V-BM512NB |
| | Multiple manifold Multiple manifold as above, but with the plugs fitted to suit use with valves with internal supply to solenoid. | 0,20 | P2V-AM511PB | 0,40 | P2V-BM512PB |
|  | Intermediate manifold, 18 to 26 mm Including seals and fitting screws. For connecting P2V-AM511NB/PB multiple manifolds to P2V-BM511NB/PB multiple manifolds. | 0,33 | P2V-AM500BE | 0,33 | P2V-AM500BE |
|  | Connection block G-side, including seal and fitting screws. For side connection. | 0,18 | P2V-AM512GS | 0,21 | P2V-BM513GS |
|  | Connection block H-side. For side connection. | 0,18 | P2V-AM512HS | 0,21 | P2V-BM513HS |
|  | Connection block G-side, including seal and fitting screws. For top connection. | 0,18 | P2V-AM512GT | 0,21 | P2V-BM513GT |
|  | Connection block H-side. For top connection. | 0,18 | P2V-AM512HT | 0,21 | P2V-BM513HT |
|  | Connection block G-side, including seal and fitting screws. For bottom connection. | 0,18 | P2V-AM512GB | 0,22 | P2V-BM513GB |
|  | Connection block H-side. For bottom connection. | 0,18 | P2V-AM512HB | 0,22 | P2V-BM513HB |
|  | End cover G-side, including seal and fitting screws. | 0,19 | P2V-AM500G0 | 0,24 | P2V-BM500G0 |
|  | End cover H-side | 0,19 | P2V-AM500H0 | 0,24 | P2V-BM500H0 |
|  | Plug For sealing supply and exhaust air ducts between multiple manifolds with different primary supply pressures. | 0,004 | P2V-AK0P | 0,01 | P2V-BK0P |
|  | Angle mounting set For raising multiple manifolds so that angle connections can be fitted to the underside. The parts are designed so that the entire manifold can be angled to simplify connection of the pipes. The set consists of four mounts, complete with all necessary screws and nuts. | 0,14 | P2V-AK0M | 0,14 | P2V-AK0M |
|  | O-ring strip seal For sealing between bases and multiple manifolds. 3.53 mm diameter, Supplied in 5 m lengths. | 0,07 | 9304331543 | 0,07 | 9304331543 |

Side ported manifold

| Description | Port size | Order code |
|--|--|------------------------|
|  | Manifold with two valve positions with terminal Strip (Non collective wiring) Size 01 - 26mm | G1/4 PS551154CP |
| | Manifold with two single solenoid valve positions with single address board Size 02 - 18mm Size 01 - 26mm | G1/8 PS561152JP |
| | | G1/4 PS551154JP |
| | Manifold with two valve positions with double address board Size 02 - 18mm Size 01 - 26mm | G1/8 PS561152MP |
| | | G1/4 PS551154MP |
| | Extension Manifold with two valve positions with single address board * Size 02 - 18mm Size 01 - 26mm | G1/8 PS561152NP |
| G1/4 PS551154NP | | |
| Extension Manifold with two valve positions with double address board * Size 02 Size 01 | G1/8 PS561152PP | |
| | G1/4 PS551154PP | |

* Use only one per manifold assembly to address more 24 solenoid

Side & bottom ported manifold







| Description | Port size | Order code |
|--|--|------------------------|
|  | Manifold with two valve positions with terminal Strip Size 01 - 26mm | G1/4 PS551164CP |
| | Manifold with two valve positions with single address board Size 02 - 18mm Size 01 - 26mm | G1/8 PS561162JP |
| | | G1/4 PS551164JP |
| | Manifold with two valve positions with double address board Size 02 - 18mm Size 01 - 26mm | G1/8 PS561162MP |
| | | G1/4 PS551164MP |
| | Extension Manifold with two valve positions with single address board Size 02 - 18mm Size 01 - 26mm | G1/8 PS561162NP |
| G1/4 PS551164NP | | |
| Extension Manifold with two valve positions with double address board Size 02 Size 01 | G1/8 PS561162PP | |
| | G1/4 PS551164PP | |

Accessories





| Description | Order code |
|---|---|
|  | Blanking plate Size 02 - 18mm Size 01 - 26mm |
| | PS5634P PS5534P |
| Manifold to Manifold gasket kit HA & HB Gasket Standard HA & HB Gasket 1 Blocked HA & HB Gasket 1 2 3 Blocked | PS561AP |
| | PS561BP |
| | PS561CP |
| | |

 Indicates stocked product.

Collective wiring end plate kits

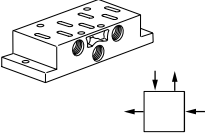
| | Description | Port size | Order code |
|---|---|-----------|-------------------|
|  | Left & right ends modules with pressure & exhaust port, auxiliary port , and non collective wiring (only for PS551154CP) Size 02 / 01 | G3/8 | PS5631011P |
|  | Left & right ends modules with pressure & exhaust port, auxiliary port , and SubD25 connection Size 02 / 01 | G3/8 | PS5620L21P |
|  | Left & right ends modules with pressure & exhaust port, auxiliary port , and 19pin Brad Harrison connection Size 02 / 01 | G3/8 | PS5620L31P |
|  | Left & right ends modules with pressure & exhaust port, auxiliary port , and 12pin M23 connection Size 02 / 01 | G3/8 | PS5620L41P |
|  | Left & right ends modules with pressure & exhaust port, auxiliary port , and 16 point terminal strip Size 02 / 01 | G3/8 | PS5620L51P |
|  | Left & right ends modules with pressure & exhaust port, auxiliary port , and ISYSNET (32 output driver is included) Size 02 / 01 | G3/8 | PS5620L61P |

Accessories

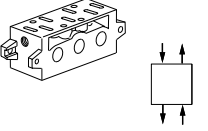
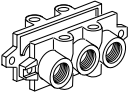
| | Description | Port size | Order code |
|---|---|-----------|-------------------|
|  | 32 output driver module for spare part | | PSSV32A |
|  | HA & HB 24 Out Cable Size 02 / 01 | G3/8 | PS5624P |
|  | HA & HB 32 Out cable Size 02 / 01 | G3/8 | PS5632P |
|  | 25 pin female 25 pin SubD25 cable 3m | | P8LMH25M3A |

ISO 5599-1 Subbase & Manifolds

VDMA Side Ported Subbases

| Description | Size | Port size | Weight (kg) | Order code |
|---|----------|-----------|-------------|--------------------|
|  <p>Subbases VDMA Side port according to VDMA Side port according to VDMA Side port according to VDMA</p> | 1 - 43mm | G1/4 | 0.16 | P2N-VS512SD |
| | 2 - 56mm | G3/8 | 0.28 | P2N-WS513SD |
| | 3 - 71mm | G1/2 | 0.35 | P2N-YS514SD |

VDMA Bottom Ported Manifold

| Description | Size | Port size | Weight (kg) | Order code |
|---|----------|-----------|-------------|--------------------|
|  <p>VDMA Form C Bottom port according to VDMA Bottom port according to VDMA Bottom port according to VDMA</p> | 1 - 43mm | G1/4 | 0.24 | P2N-VM512MB |
| | 2 - 56mm | G3/8 | 0.36 | P2N-WM513MB |
| | 3 - 71mm | G1/2 | 0.70 | P2N-YM514MB |
| <p>VDMA Transition plate Size 1 to Size 3 Kit includes: Transition plate only</p> | 1 to 3 | G1/4 | | P2N-VM500AK |
|  <p>VDMA Form D - End plate According to VDMA According to VDMA According to VDMA</p> | 1 - 43mm | G3/8 | 0.21 | P2N-VM513ES |
| | 2 - 56mm | G1/2 | 0.36 | P2N-WM514ES |
| | 3 - 71mm | G1 | 0.68 | P2N-YM518ES |
| <p>VDMA Isolation - Main galley According to VDMA According to VDMA According to VDMA Kit includes: (1) Isolator plug.</p> | 1 - 43mm | | | P2N-VK0P |
| | 2 - 56mm | | | P2N-WK0P |
| | 3 - 71mm | | | P2N-YK0P |


Accessories

| Description | Size | Port size | Weight (kg) | Order code |
|--|----------|-----------|-------------|-----------------|
|  <p>Blanking plate Kit includes: (1) Blanking plate, (1) Gasket and (4) Mounting bolts</p> | 1 - 43mm | G1/4 | 0.10 | P2N-AA5B |
| | 2 - 56mm | G3/8 | 0.15 | P2N-BA5B |
| | 3 - 71mm | G1/2 | 0.20 | P2N-CA5B |

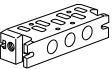



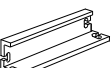

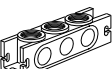


Side ported subbases

| Description | Size | Port size | Weight (kg) | Order code BSP | Order code NPT |
|--|----------|-----------|-------------|--------------------|-------------------|
|  <p>Single subbase 1 3 5 2 4 ports & 12 14</p> | 1 - 43mm | G1/4 | 0.16 | PL1-1/4-70 | PL1-1/4-80 |
| | 1 - 43mm | G3/8 | 0.16 | PL1-3/8-70 | |
| | 2 - 56mm | G3/8 | 0.28 | PL2-3/8-70 | PL2-3/8-80 |
| | 2 - 56mm | G1/2 | | P2N-HS514SS | |
| | 3 - 71mm | G1/2 | | PL3-1/2-70 | PL3-1/2-80 |
| | 3 - 71mm | G3/4 | | P2N-JS516SD | |

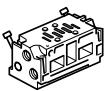

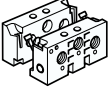

Bottom ported subbases

| Description | Size | Port size | Weight (kg) | Order code BSP | Order code NPT |
|--|----------|-----------|-------------|-------------------|-------------------|
|  <p>Single subbase 1 3 5 2 4 ports & 12 14</p> | 1 - 43mm | G1/4 | 0.37 | PD1-1/4-70 | PD1-1/4-80 |
| | 2 - 56mm | G3/8 | 0.59 | PD2-3/8-70 | PD2-3/8-80 |
| | 3 - 71mm | G1/2 | 0.59 | PD3-1/2-70 | |


Size 1 bottom ported manifold

| Description | Size | Port size | Weight (kg) | Order code |
|---|----------|-----------|-------------|--------------------|
|   <p>Manifold with bottom ports low profile</p> | 1 - 43mm | G1/4 | 0.2 | P2N-AM512MB |
|   <p>Connecting block Top or bottom ported connecting block for above manifold "low profile"</p> | 1 - 43mm | G3/8 | 0.15 | P2N-AM513GT |
|   <p>End End piece for above manifold "low profile"</p> | 1 - 43mm | no | 0.06 | P2N-AM500J |
|   <p>Intermediate supply Top or bottom ported intermediate supply for above manifold "low profile"</p> | 1 - 43mm | G3/8 | 0.14 | P2N-AM513BT |
|  <p>Isolation plugs isolating seal for above manifold "low profile"</p> | 1 - 43mm | | 0.07 | P2N-AK0P |

Sizes 1 & 2 side ported manifold

| Description | Size | Port size | Weight (kg) | Order code |
|---|----------|-----------|-------------|--------------------|
|   <p>Manifold Manifold with side port</p> | 1 - 43mm | G1/4 | 0.24 | P2N-EM512MD |
| | 2 - 56mm | G3/8 | 0.21 | P2N-FM513MD |
|   <p>End Side ported connecting kit for above manifold with side ports</p> | 1 - 43mm | G3/8 | 0.36 | P2N-EM513ES |
| | 2 - 56mm | G1/2 | 0.29 | P2N-FM514ES |


Side ported manifold

| Description | Size | Port size | Order code |
|--|----------|-----------|--------------------|
|  Manifold with terminal Strip (non collective wiring) | 1 - 43mm | G3/8 | PS401156CCP |
| | 2 - 56mm | G1/2 | PS411158CCP |
| | 3 - 71mm | G3/4 | PS421150CCP |
| Manifold with single address board (single solenoid) | 1 - 43mm | G3/8 | PS401156JCP |
| Manifold with double address board | 1 - 43mm | G3/8 | PS401156MCP |



Accessories

| Description | Size | Port size | Order code |
|--|----------|-----------|-----------------|
|  Blanking plate | 1 - 43mm | G3/8 | PS4034CP |
| | 2 - 56mm | G1/2 | PS4134CP |
| | 3 - 71mm | G3/4 | PS4234CP |
| Insulation plug | 1 - 43mm | G3/8 | PS4032CP |
| | 2 - 56mm | G1/2 | PS4132CP |
| | 3 - 71mm | G3/4 | PS4232CP |
| Manifold to Manifold gasket kit | 1 - 43mm | G3/8 | PS4013P |


Coils for plug in valve

| Description | Size | Order code |
|---|----------|------------------------------|
|  | 12 V DC | 5599-2 coil PS404145P |
| | 24 V DC | 5599-2 coil PS4041B9P |
| | 24 V AC | 5599-2 coil PS404142P |
| | 120 V AC | 5599-2 coil PS404123P |
| | 240 V AC | 5599-2 coil PS404157P |

Collective wiring end plate kits

| | Description | Port size | Order code | |
|---|---|---|--|--------------------|
|  | Left & right ends modules with pressure & exhaust port, auxiliary port , and non collective wiring Size 1 Size 2 Size 3 | G1/2 G3/4 G3/4 | PS4031011CP PS4131011CP PS4231011CP | |
| |  | Left & right ends modules with pressure & exhaust port, auxiliary port , and SubD25 connection Size 1 | G1/2 | PS4020L21CP |
| | Left & right ends modules with pressure & exhaust port, auxiliary port , and 19pin Brad Harrison connection Size 1 | G1/2 | PS4020L31CP | |
| | Left & right ends modules with pressure & exhaust port, auxiliary port , and 12pin M23 connection Size 1 | G1/2 | PS4020L41CP | |
| | Left & right ends modules with pressure & exhaust port, auxiliary port , and ISYSNET Size 1 | G3/8 | PS4020L61CP | |

Accessories

| | Description | Order code |
|---|---|-------------------|
|  | 32 output driver module for spare part | PSSV32A |
| | HA & HB 24 Out Cable | PS4024P |
| | 25 pin female 25 pin SubD25 cable 3m | P8LMH25M3A |
| | H1 H2 H3 Pilot Gasket | PS4007P |
| | Valve to base gasket | PS4005CP |

Regulators - HA & HB - 15407

Accessories - Sandwich Regulator

Features

- Remote air pilot operated for hard-to-reach pressure control.
- Unregulated pilot pressure to valve for consistent valve shifting regardless of pressure adjustment.

Gauge adaptor kit

Included with all HB Regulators. Both kits are required on all HA & HB Regulators when the Regulator is on the last station on the right (14) end.

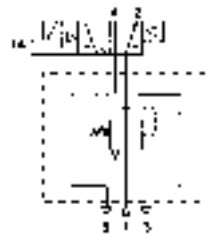


| Description | Order code |
|-------------|-------------------|
| Gauge kit | PS5651160P |

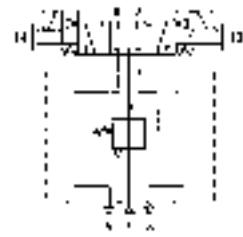
HB & HA Common Port Regulation

Provides adjustable regulated air pressure to the valves #1 port which gives the same pressure to both the #2 and #4 port of the manifold or subbase. The regulator is always on the 14 end of the valve.

Common port regulator with 4-way, 2-position single solenoid valve



Common port regulator with 4-way, 3-position APB valve



HA - 26mm (Common Port Regulator shown)



| 8 bar | Order code | |
|-----------|-------------------|-------------------|
| | Plug-in | Non Plug-in |
| Size 18mm | PS5638133P | PS5637133P |
| Size 26mm | PS5538133P | PS5537133P |

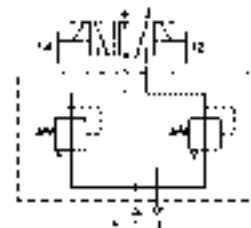
HB & HA Independent Port Regulation

Dual Port Regulator

Provides regulated pressure to both ports. Pressure regulation can occur out of the #2 or #4 port of the valve. In this case #2 and #4 have to be cross wired.

3 position CP have to be used as a COE
 3 position COE have to be used as a CP

Independent dual port regulator with 4-way, 2-position double solenoid valve



Order chart - Sandwich Regulator (please contact Parker Sales Office)

| PS5637 | 1 | 6 | 6 | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------|---------------|----------|-----------|--|--|--------------|--|---------------|--------------|--|---------------|-----------|--|--|--------------|--|---------------|--------------|--|---------------|---|--------------------|--|---|---------------------------|---|--------------------------------|--|----------------------------|--|---|---------------------|---|----------------------|---|-------------------|---|--------------------|--|----------------------------|--|---|---------------------|---|----------------------|---|-------------------|---|--------------------|--|
| <table border="1"> <thead> <tr> <th colspan="3">Series</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">HB</td> </tr> <tr> <td>15407-1 18mm</td> <td></td> <td>PS5637</td> </tr> <tr> <td>15407-2 18mm</td> <td></td> <td>PS5638</td> </tr> <tr> <td colspan="3" style="text-align: center;">HA</td> </tr> <tr> <td>15407-1 26mm</td> <td></td> <td>PS5537</td> </tr> <tr> <td>15407-2 26mm</td> <td></td> <td>PS5538</td> </tr> </tbody> </table> | Series | | | HB | | | 15407-1 18mm | | PS5637 | 15407-2 18mm | | PS5638 | HA | | | 15407-1 26mm | | PS5537 | 15407-2 26mm | | PS5538 | <table border="1"> <thead> <tr> <th colspan="2">Regulator function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Common pressure regulator</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Independent pressure regulator</td> </tr> </tbody> </table> | Regulator function | | 1 | Common pressure regulator | 2 | Independent pressure regulator | <table border="1"> <thead> <tr> <th colspan="2">#4 Port regulator / Gauge*</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td>2-60 PSIG w/o Gauge</td> </tr> <tr> <td style="text-align: center;">3</td> <td>5-125 PSIG w/o Gauge</td> </tr> <tr> <td style="text-align: center;">5</td> <td>2-60 PSIG w/Gauge</td> </tr> <tr> <td style="text-align: center;">6</td> <td>5-125 PSIG w/Gauge</td> </tr> </tbody> </table> <p>* For common pressure regulator option. Regulator gauge callout must be the same number for both Port #4 and port #2. (Example: 166)</p> | #4 Port regulator / Gauge* | | 2 | 2-60 PSIG w/o Gauge | 3 | 5-125 PSIG w/o Gauge | 5 | 2-60 PSIG w/Gauge | 6 | 5-125 PSIG w/Gauge | <table border="1"> <thead> <tr> <th colspan="2">#2 Port regulator / Gauge*</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td>2-60 PSIG w/o Gauge</td> </tr> <tr> <td style="text-align: center;">3</td> <td>5-125 PSIG w/o Gauge</td> </tr> <tr> <td style="text-align: center;">5</td> <td>2-60 PSIG w/Gauge</td> </tr> <tr> <td style="text-align: center;">6</td> <td>5-125 PSIG w/Gauge</td> </tr> </tbody> </table> <p>* For common pressure regulator option. Regulator gauge callout must be the same number for both Port #4 and port #2. (Example: 166)</p> | #2 Port regulator / Gauge* | | 2 | 2-60 PSIG w/o Gauge | 3 | 5-125 PSIG w/o Gauge | 5 | 2-60 PSIG w/Gauge | 6 | 5-125 PSIG w/Gauge | |
| Series | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15407-1 18mm | | PS5637 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15407-2 18mm | | PS5638 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15407-1 26mm | | PS5537 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15407-2 26mm | | PS5538 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Regulator function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Common pressure regulator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Independent pressure regulator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| #4 Port regulator / Gauge* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2-60 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5-125 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2-60 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5-125 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| #2 Port regulator / Gauge* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2-60 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5-125 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2-60 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5-125 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

How to Configure Sandwich Regulator / Valve Combinations

Ordering Components

- Manifold or Subbase Kit required.
- Sandwich Regulator Kit configured for Internal Pilot as standard.
- Order valve as External Pilot.

Internal Pilot Configuration -

Pressure in Base Port 1 feeds regulator configured for Internal Pilot which feeds valve configured for External Pilot.

Flow control - ISO 15407 - Sandwich flow controls features

- Both adjustment screws are located on the 12 end of the unit.
- Sandwich Flow Control mounts with its own studs, which means the valve uses standard bolts for mounting.
- Sandwich Flow Control is not to be used as a shut off device and is not bubble tight when needles are fully turned down.



| Size | Order code | |
|-----------|----------------|----------------|
| | Plug-in | Non Plug-in |
| | 15407-2 | 15407-1 |
| Size 18mm | PS5635P | PS5642P |
| Size 26mm | PS5535P | PS5542P |

Regulators - Size 1 / 2 / 3 - ISO 5599

Accessories - Sandwich Regulator

Features

- Remote air pilot operated for hard-to-reach pressure control.
- Unregulated pilot pressure to valve for consistent valve shifting regardless of pressure adjustment.

Gauge adaptor kit

Included with all HB Regulators. Both kits are required on all HA & HB Regulators when the Regulator is on the last station on the right (14) end.

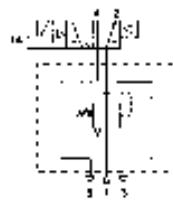


| Description | Order code |
|-------------|-------------------|
| Gauge kit | PS5651160P |

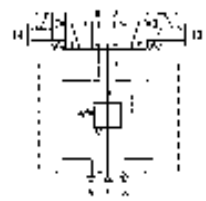
ISYS ISO 1 / 2 / 3 Common Port Regulation

Provides adjustable regulated air pressure to the valves #1 port which gives the same regulated pressure to both the #2 and #4 port of the manifold or subbase. The regulator is always on the 14 end of the valve.

Common port regulator with 4-way, 2-position single solenoid valve



Common port regulator with 4-way, 3-position APB valve



Order code

| | | Plug-in | Non Plug-in |
|--------|-------|--------------------|--------------------|
| Size 1 | 8 bar | PS4038133CP | PS4037133CP |

ISYS ISO 1 / 2 / 3 Independent Port Regulation

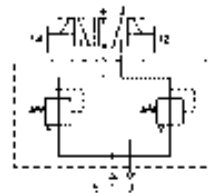
Dual Port Regulator or Single Port Regulator

Provides regulated pressure to both ports. Pressure regulation can occur out of the #2 or #4 port of the valve. Full line pressure would be provided with a pass plate.

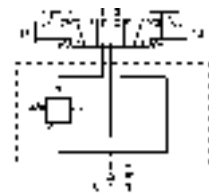


When using an independent Pressure Sandwich Regulator, the cylinder outlet ports are reversed. The 12 end energizes the #2 port. The 3-Position CE and PC functions are also reversed. (See schematics on right).

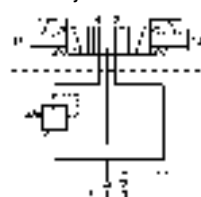
Independent dual port regulator with 4-way, 2-position double solenoid valve



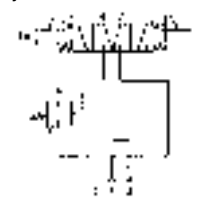
Independent port regulator with 4-way, 3-position all ports blocked valve



Independent port regulator with 4-way, 3-position inlet to cylinder function



Independent port regulator with 4-way, 3-position cylinder to exhaust function



ISYS ISO 1 / 2 / 3 Selector Regulation

Supplies two different pressures to the valves #1 and #3 flow paths. Shifting the valve "selects" one or the other of these two pressures to flow out port #2. A Selector Regulator can: 1) Provide regulated pressure to one flow path and full line pressure to the other by use of the Line Pressure By-Pass Plate.

Selector regulator with 4-way, 2-position single solenoid valve



Order chart - Sandwich Regulator (please contact Parker Sales Office)

| PS4037 | 1 | 6 | 6 C P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|---|---|--|--------|---------------|--------|---------------|------------------------|--|--------|---------------|--------|---------------|------------------------|--|--------|---------------|--------|---------------|---|--------------------|--|----------|---------------------------|----------|--------------------------------|----------|--------------------|--|----------------------------|--|----------|----------------------|----------|---------------------|----------|---------------------|----------|----------------------|----------|-------------------|----------|-------------------|----------|--------------------|----------|---------------------------|----------|---------------------------|--|----------------------------|--|----------|----------------------|----------|---------------------|----------|---------------------|----------|----------------------|----------|-------------------|----------|-------------------|----------|--------------------|----------|---------------------------|----------|---------------------------|
| <table border="1"> <tr><th colspan="2">Series</th></tr> <tr><td colspan="2">ISYS ISO Size 1</td></tr> <tr><td>5599-1</td><td>PS4037</td></tr> <tr><td>5599-2</td><td>PS4038</td></tr> <tr><td colspan="2">ISYS ISO Size 2</td></tr> <tr><td>5599-1</td><td>PS4137</td></tr> <tr><td>5599-2</td><td>PS4138</td></tr> <tr><td colspan="2">ISYS ISO Size 3</td></tr> <tr><td>5599-1</td><td>PS4237</td></tr> <tr><td>5599-2</td><td>PS4238</td></tr> </table> | Series | | ISYS ISO Size 1 | | 5599-1 | PS4037 | 5599-2 | PS4038 | ISYS ISO Size 2 | | 5599-1 | PS4137 | 5599-2 | PS4138 | ISYS ISO Size 3 | | 5599-1 | PS4237 | 5599-2 | PS4238 | <table border="1"> <tr><th colspan="2">Regulator function</th></tr> <tr><td>1</td><td>Common pressure regulator</td></tr> <tr><td>2</td><td>Independent pressure regulator</td></tr> <tr><td>3</td><td>Selector Regulator</td></tr> </table> | Regulator function | | 1 | Common pressure regulator | 2 | Independent pressure regulator | 3 | Selector Regulator | <table border="1"> <tr><th colspan="2">#4 Port regulator / Gauge*</th></tr> <tr><td>0</td><td>Line By-Pass Plate**</td></tr> <tr><td>1</td><td>1-30 PSIG w/o Gauge</td></tr> <tr><td>2</td><td>2-60 PSIG w/o Gauge</td></tr> <tr><td>3</td><td>5-125 PSIG w/o Gauge</td></tr> <tr><td>4</td><td>1-30 PSIG w/Gauge</td></tr> <tr><td>5</td><td>2-60 PSIG w/Gauge</td></tr> <tr><td>6</td><td>5-125 PSIG w/Gauge</td></tr> <tr><td>C</td><td>Air Pilot w/60 PSIG Gauge</td></tr> <tr><td>D</td><td>Air Pilot w/60 PSIG Gauge</td></tr> </table> | #4 Port regulator / Gauge* | | 0 | Line By-Pass Plate** | 1 | 1-30 PSIG w/o Gauge | 2 | 2-60 PSIG w/o Gauge | 3 | 5-125 PSIG w/o Gauge | 4 | 1-30 PSIG w/Gauge | 5 | 2-60 PSIG w/Gauge | 6 | 5-125 PSIG w/Gauge | C | Air Pilot w/60 PSIG Gauge | D | Air Pilot w/60 PSIG Gauge | <table border="1"> <tr><th colspan="2">#2 Port regulator / Gauge*</th></tr> <tr><td>0</td><td>Line By-Pass Plate**</td></tr> <tr><td>1</td><td>1-30 PSIG w/o Gauge</td></tr> <tr><td>2</td><td>2-60 PSIG w/o Gauge</td></tr> <tr><td>3</td><td>5-125 PSIG w/o Gauge</td></tr> <tr><td>4</td><td>1-30 PSIG w/Gauge</td></tr> <tr><td>5</td><td>2-60 PSIG w/Gauge</td></tr> <tr><td>6</td><td>5-125 PSIG w/Gauge</td></tr> <tr><td>C</td><td>Air Pilot w/60 PSIG Gauge</td></tr> <tr><td>D</td><td>Air Pilot w/60 PSIG Gauge</td></tr> </table> | #2 Port regulator / Gauge* | | 0 | Line By-Pass Plate** | 1 | 1-30 PSIG w/o Gauge | 2 | 2-60 PSIG w/o Gauge | 3 | 5-125 PSIG w/o Gauge | 4 | 1-30 PSIG w/Gauge | 5 | 2-60 PSIG w/Gauge | 6 | 5-125 PSIG w/Gauge | C | Air Pilot w/60 PSIG Gauge | D | Air Pilot w/60 PSIG Gauge |
| Series | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISYS ISO Size 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5599-1 | PS4037 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5599-2 | PS4038 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISYS ISO Size 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5599-1 | PS4137 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5599-2 | PS4138 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISYS ISO Size 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5599-1 | PS4237 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5599-2 | PS4238 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Regulator function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Common pressure regulator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Independent pressure regulator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Selector Regulator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| #4 Port regulator / Gauge* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | Line By-Pass Plate** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1-30 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2-60 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5-125 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1-30 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2-60 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5-125 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | Air Pilot w/60 PSIG Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | Air Pilot w/60 PSIG Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| #2 Port regulator / Gauge* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | Line By-Pass Plate** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1-30 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2-60 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5-125 PSIG w/o Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1-30 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2-60 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5-125 PSIG w/Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | Air Pilot w/60 PSIG Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | Air Pilot w/60 PSIG Gauge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>* For common pressure regulator option. Regulator gauge callout must be the same number for both Port #4 and port #2. (Example: 166)</p> <p>** Pressure Line By-Pass Option can only be used with independent and Selector Regulators (Option 2 & 3 in Sandwich Block Function).</p> | <p>* For common pressure regulator option. Regulator gauge callout must be the same number for both Port #4 and port #2. (Example: 166)</p> <p>** Pressure Line By-Pass Option can only be used with independent and Selector Regulators (Option 2 & 3 in Sandwich Block Function).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

How to Configure Sandwich Regulator / Valve Combinations

Ordering Components

- Manifold or Subbase Kit required.
- Sandwich Regulator Kit configured for Internal Pilot as standard.
- Order valve as External Pilot.

Internal Pilot Configuration -

Pressure in Base Port 1 feeds regulator configured for Internal Pilot which feeds valve configured for External Pilot.

External Pilot Configuration - H1, H2, H3

An External Pilot pressure in Port 12 or 14 of the base feeds thru the Sandwich Regulator 12 or 14 galley directly to the 12/14 pilot of the valve.

This configuration takes an External Pilot from the 12 port of the base and passes it thru the regulator to feed the 12 galley of the valve.

Flow Control - Size 1 / 2 / 3 - ISO 5599 - Sandwich flow controls features

- Both adjustment screws are located on the 12 end of the unit.
- Sandwich Flow Control mounts with its own studs, which means the valve uses standard bolts for mounting.

| Size | Order code | |
|--------|-------------------|-----------------------|
| | Plug-in 5599-2 | Non Plug-in 5599-1 |
| Size 1 | PS4035CP | PS4042CP |
| Size 2 | PS4135CP | PS4142CP |
| Size 3 | PS4235CP | PS4242CP |



Plug-In
5599-2
Size 2 Shown

ISYSNET Field Bus System Field Bus System



Integrated Solution

- A complete field bus communication offering for all ISO valves.
- Extremely fast I/O backplane uses change-of-state (COS) connections to maximize performance.
- UL, C-UL and CE certifications (as marked).

I/O Modules

- Accepts signals from sensors, photo eyes, limits and other field input devices.
- Provides signals to remotely operating solenoid valves and other field operating output devices.
- Choice of digital, analog, high watt I/O Modules.
- Choose from a broad range of color coded I/O types with connector choices of 8mm, 12mm or M23.
- Built-in miswiring, short circuit, open circuit detection with electronic feedback.

Modularity

- Ease of module replacement with unique latching mechanisms eliminating the need for screws.
- Auto Device Replacement allows OEMs to add I/O modules without making changes to the control software.
- Built-in panel grounding.
- Electronic and mechanical keying prevents users from placing I/O modules in the wrong sequence.

Communication Modules

- A Communication Module supports up to a maximum of 63 I/O modules and up to 264 Inputs and 264 Outputs.



Steps for Specifying an ISYSNET System

1. Select a Communication Module
2. Select I/O Modules
3. Select Appropriate Power Unit
4. Select Cables and Cordsets
5. Determine Mounting Requirements for your isysnet Configuration.

ISYSNET Product Compatibility

| | DeviceNet Adapter PSSCDM | ControlNet Adapter PSSCNA | EtherNet Adapter PSSCENA | PROFIBUS Adapter PSSCPBA |
|--|---|--|---|---|
| PLC-5™ with Network Port | IOD | NS | NS | NA |
| SLC 500™ with Network Port | IOD | NS | NS | NA |
| PLC-5 Processor via Network Module | IOD | NS | NS | 3 |
| 1756 Logix™ Communication Interface | IOD | IOD | IOD | 3 |
| PanelView™ Terminal | NA | NA | NA | NA |
| RSLinx™ Software | NA | NA | NA | NA |
| 1769-L20, -L30 Controller with 1761- NET Interface | NA | NS | NS | NA |
| 1769-L32E, -35E | NA | NA | IOD | NA |
| 1769-L32C, -35CR | NA | IOD | NA | NA |
| 1769 CompactLogix™ Communication Interface | IOD | NA | NA | 3* |
| SoftLogix5800™ Communication Interface | IOD | IOD | IOD | 3* |
| PC with RSLinx Only | NS | NS | NS | NA |
| FlexLogic™ Communication Interface | IOD | IOD | IOD | 3 |

IOD = I/O Data

NS = Not Supported

NA = Not Applicable

3 = Requires third party scanner module

* Hilscher North America

Communication Considerations

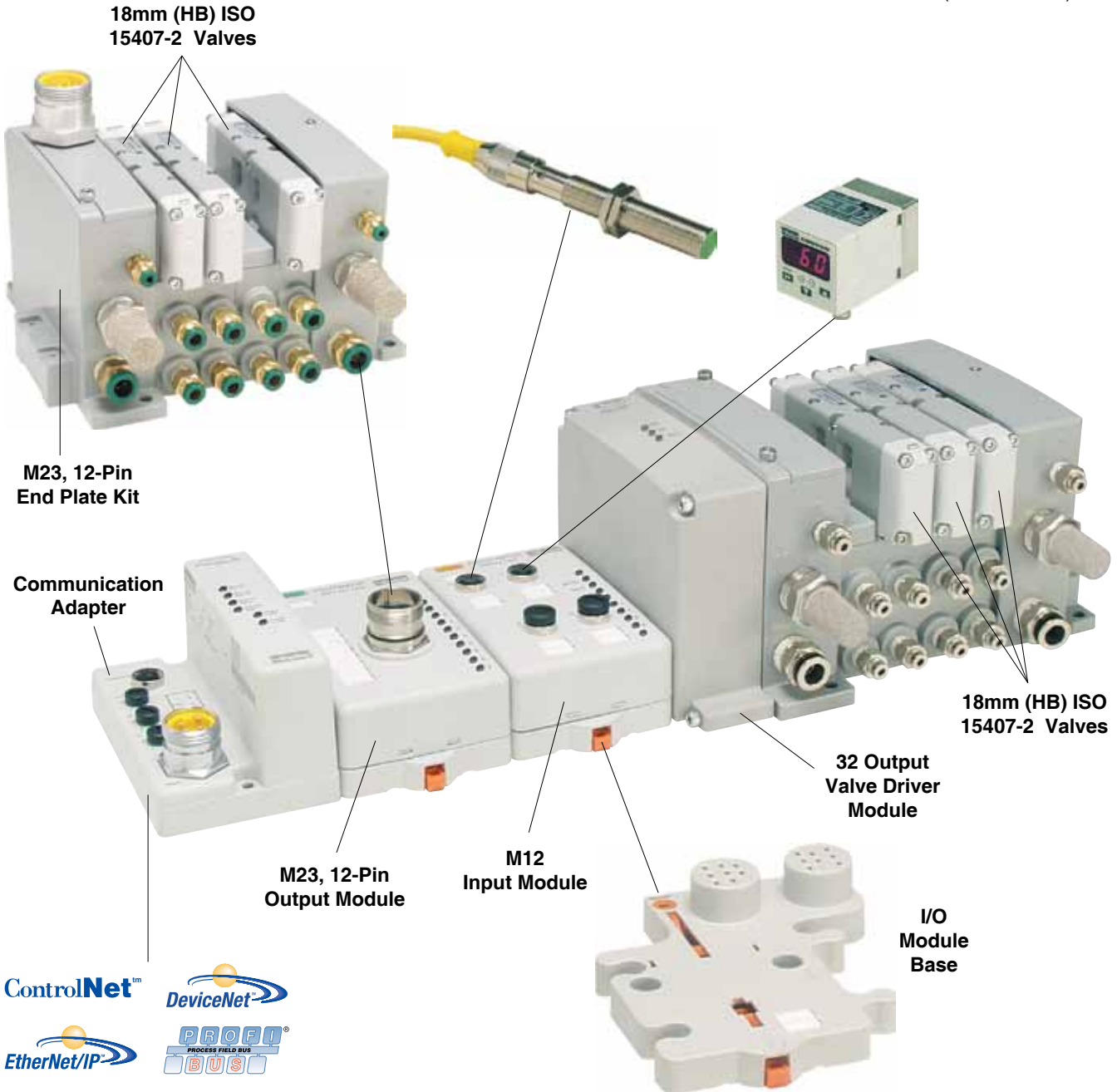
ISYSNET features are impacted by your network choice.

| Network | Impact |
|---|---|
| DeviceNet PSSCDM12A and PSSCDM18PA | The PSSCDM12A and PSSCDM18PA provide two means of connecting a node of I/O to DeviceNet. A total of 63 isysnet modules can be assembled on a single DeviceNet node. Expansion power supplies may be used to provide additional PointBus backplane current. |
| ControlNet™ PSSCNA | A total of 63 isysnet modules can be assembled on a single ControlNet node. Expansion power supplies may be used to provide additional PointBus backplane current. Up to 25 direct connections and 5 rack connections are allowed. |
| EtherNet/IP™ PSSCENA | A total of 63 isysnet modules can be assembled on a single EtherNet / IP node. Expansion power supplies may be used to provide additional PointBus backplane current. Refer to the User Manual, publication PSS-UM004 to determine the ratings for direct and rack connections allowed. |
| PROFIBUS DP™ PSSCPBA | A total of 63 isysnet modules can be assembled on a single PROFIBUS node. Expansion power supplies may be used to provide additional PointBus backplane current. |

ISYSNET Field Bus System

Centralised Solution

- A complete field bus communication offering for all ISO valves.
- UL, C-UL and CE certifications (as marked).



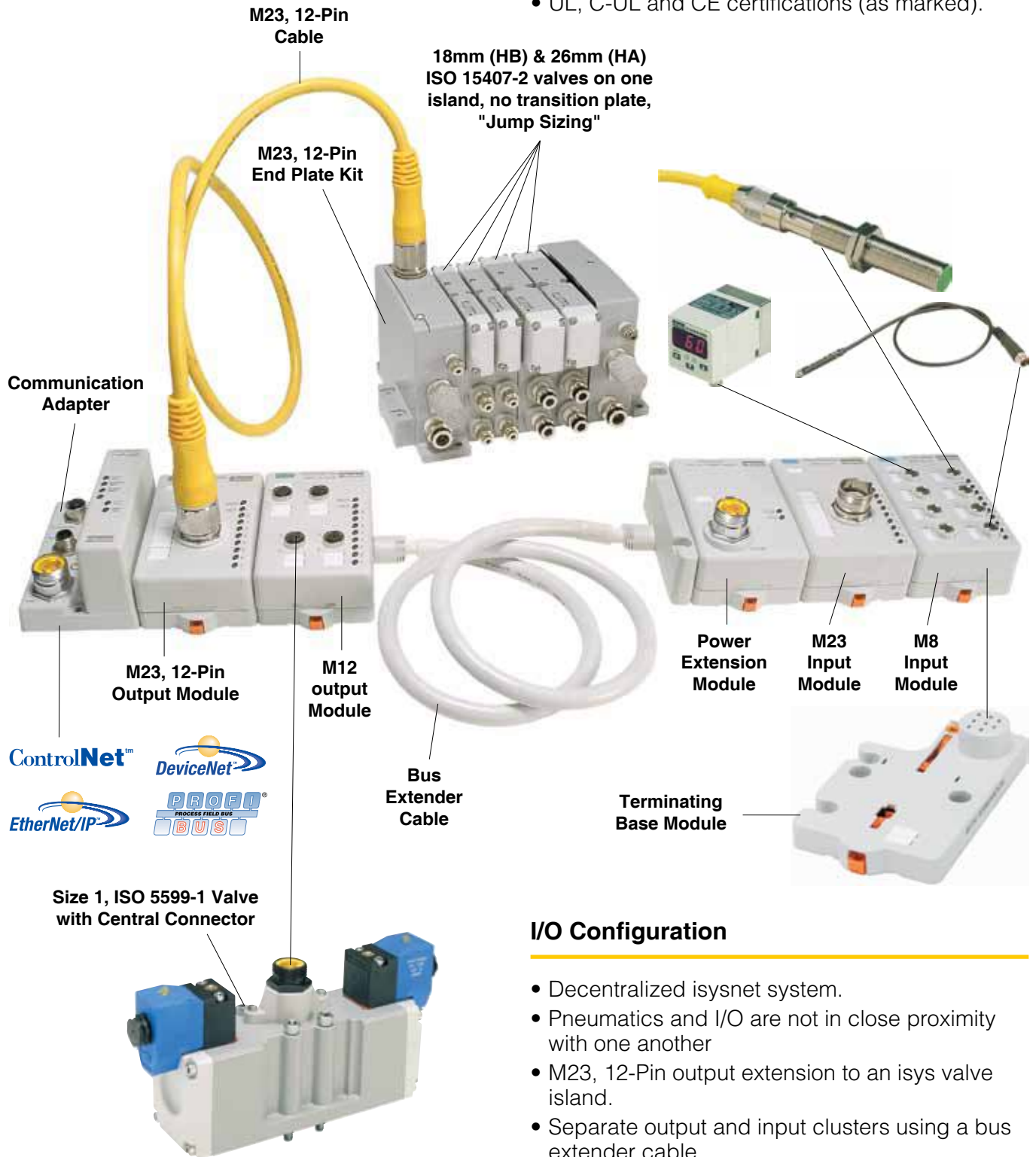
I/O Configuration

- Centralized isysnet system.
- Pneumatics and I/O are in close proximity to one another
- I/O density per module = 8.

ISYSNET Field Bus System

Distributed Solution

- A complete field bus communication offering for all ISO valves.
- UL, C-UL and CE certifications (as marked).



I/O Configuration

- Decentralized isysnet system.
- Pneumatics and I/O are not in close proximity with one another
- M23, 12-Pin output extension to an isys valve island.
- Separate output and input clusters using a bus extender cable.
- Separate output and input power using a power extension module.
- I/O density per module = 8.

Communication Modules



PSSCENA

PSSCCNA

| | | |
|----------------------------|---|----------------|
| †§ DeviceNet™ (M18 or M12) | PSSCDM18PA (M18) or PSSCDM12A (M12) | 10 to 28.8 VDC |
| †§ ControlNet™ | PSSCCNA | 10 to 28.8 VDC |
| †§ Ethernet I/P™ | PSSCENA | 10 to 28.8 VDC |
| †§ Profibus-DP® | PSSCPBA | 10 to 28.8 VDC |

* IP67 Certified

† Reference the following Documents for Installation Instructions. DeviceNet - E101P, PSS-UM001A; ControlNet - E103P Ethernet I/P - E104P; Profibus-DP - E102P

§ Requires a PSST8M23A or PSSV32A in all manifold assemblies. PSSV32A is included in factory assembled manifolds and isysnet End Plate Kits.

EDS and GSD files located at www.parker.com/pneu/isysnet

I/O Modules



PSST8M12A

PSST8M23A

PSSNACM12A

PSSTACM12A

PSSN8M8A

| | | |
|--|-------------------|--------------------------|
| † 8 Digital Inputs M12 on 4 M12 connectors for PNP Sensors | PSSN8M12A | 10 to 28.8 VDC |
| † 8 Digital Inputs M12 on 4 M12 connectors for NPN Sensors | PSSP8M12A | 10 to 28.8 VDC |
| † 8 Digital Inputs M8 for PNP Sensors | PSSN8M8A | 10 to 28.8 VDC |
| † 8 Digital Inputs M8 for NPN Sensors | PSSP8M8A | 10 to 28.8 VDC |
| + 8 Digital Outputs M12 (PNP Sourcing) | PSST8M12A | 10 to 28.8 VDC |
| + 8 Digital Outputs M8 (PNP Sourcing) | PSST8M8A | 10 to 28.8 VDC |
| § 4 Digital Output, High Watt Relay M12 (PNP Sourcing) (2 Amp) | PSSTR4M12A | 24 VDC |
| + #8 Digital Outputs M23 (PNP Sourcing) | PSST8M23A | 10 to 28.8 VDC |
| ‡ 2 Analog Inputs Voltage (M12) | PSSNAVM12A | 0 to 10V ± 10V |
| ‡ 2 Analog Inputs Current (M12) | PSSNACM12A | 4 to 20 mA or 0 to 20 mA |
| ** 2 Analog Outputs Voltage (M12) | PSSTAVM12A | 0 to 10 V ± 10 V |
| ** 2 Analog Outputs Current (M12) | PSSTACM12A | 4 to 20 mA or 0 to 20 mA |

* IP67 Certified

Reference the following Documents for Installation Instructions.

† E106P § E109P **E111P

+ E107P **E111P

#Can be used with PSSTERM.

See www.parker.com/pneu/isysnet

Valve Driver Modules

| | |
|--------------------------------------|-----------------------------|
| 32 Point Module – HB, HA, H1, H2, H3 | PSSV32A^{††} |
| 24 Output Cable – HB, HA | PS5624P[†] |
| 25 - 32 Output Cable – HB, HA | PS5632P[†] |
| 24 Output Cable – H1, H2, H3 | PS4024P[†] |

* Reference Document E100P for Installation Instructions.
 See www.parker.com/pneu/isysnet

† Isysnet Add-A-Folds assemblies and end plate kits include a valve driver module (PSSV32A) and cable.

HB / HA 24 output manifolds require a PS5624P.

HB / HA 32 output manifolds require a PS5624P + PS5632P.

H1, H2, H3 manifolds require a PS4024P, allowing 21 outputs.

Included in Kits:- **PS5620L61P**
PS4020L61CP



PSSV32A

| | |
|--------------------|----------------|
| Terminating Module | PSSTERM |
|--------------------|----------------|

Used as the last Terminating Module for a Stand Alone isysnet Assembly.

A PSST8M23A must be located in the isysnet assembly.



PSSTERM

Power Extender Module

| | | |
|--------------------------|-----------------|--------|
| 24VDC Field Power Module | PSSSE24A | 24 VDC |
|--------------------------|-----------------|--------|

A Power Extender Module must be used on every 12th Module in an isysnet assembly. See www.parker.com/pneu/isysnet

Reference Document E105P and PSS-SG001 for configuration instructions. See www.parker.com/pneu/isysnet



PSSSE24A

Bus Extender Cable

| | | |
|----------------|----------------|--------|
| 1 Meter Cable* | PSSEXT1 | 24 VDC |
| 3 Meter Cable* | PSSEXT3 | 24 VDC |

* Requires a PSSSE24 Power Extender Module.

IP67 Certified

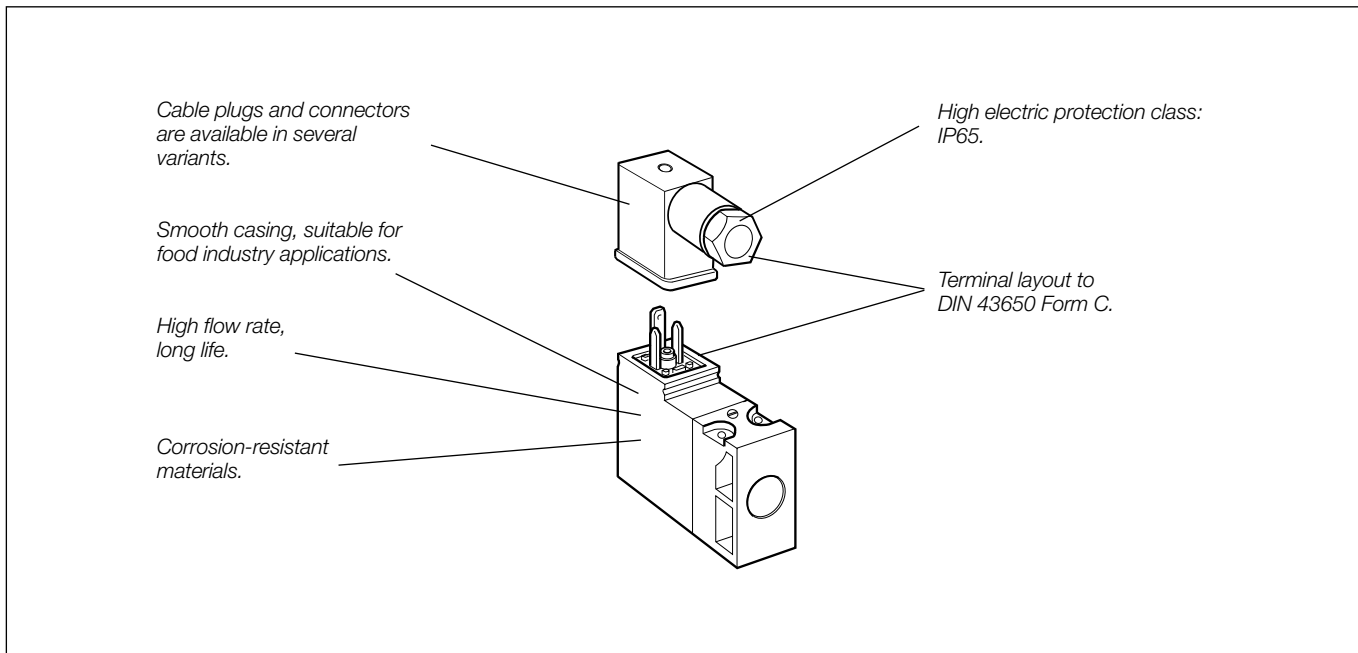
Reference the following Documents for Installation Instructions.
 E117P

See www.parker.com/pneu/isysnet



PSSEXT1

Solenoid operators - 15 mm



The P2E-•V solenoid operator range

The P2E-•V range of operators are normally closed (NC) 3/2 solenoid valves, with exceedingly compact dimensions in relation to their capacity.

International standard

The port connection pattern complies with a new French CNOMO standard (in process of drafting), with cable plug connections in accordance with DIN 43650 Form C.

Compact design

Overall dimensions of the P2E-•V operators are substantially less than those of earlier generations of solenoid operators.

High flow capacity

High flow capacity relative to the electrical operating power as a result of optimised internal flow paths.

Corrosion-resistant design

The valve is made of thermoplastic material and stainless steel, with Viton™ and nitrile rubber seals for excellent corrosion resistance.

Clean lines suitable for food industry applications, P2E-QV

The valve has been designed in conjunction with several machine manufacturers and organisations in the food processing industry, with corrosion-resistant materials and smooth lines being important starting points. The valve and its accessories have been designed so that there are no gaps or crevices in which dirt could collect.

High reliability

Few moving parts result in high reliability, rapid changeover and very long life.

Low power demand

The solenoids have a power demand of 1.2 W at 24 VDC and 1.6 VA at 24 VAC, 115 V AC and 230 VAC.

High protection class

When using the standard cable plug for fitting by the user, the protection class is IP65, the valve, with Fast-on connectors, has an encapsulation class of IP 20.

Insensitive to dirty air

The use of generously sized flow paths (1.0 mm diameter) means that the valve can be used in normal industrial environments without problems of blocking.

Manual override as option

The operators can be supplied with or without manual override. The manual override device is available as a screwdriver groove or with a control arm, and is either spring return (blue) or lockable (yellow).

Order key, solenoid operators (15mm)

| | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| P | 2 | E | - | Q | V | 3 | 2 | C | 3 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|

| Valve family | |
|--------------|-------------------|
| P2E | Solenoid operator |

| Subfamily | |
|-----------|--|
| | Solenoid operator, 15 mm wide Electric connection acc. to ISO 15217 Form C EI/supply connection on opposite side |
| K | Standard version |
| M | Mobile version |
| Q | Food industry version |

| Type of current | |
|-----------------|---------------------------|
| 1 | AC 50 Hz |
| 2 | DC |
| 4 | AC 50/60 Hz |
| 5 | Mobile and wide band only |


| Voltage | |
|----------|----------|
| B | 12 V |
| C | 24 V |
| D | 48 V |
| F | 115 V* |
| J | 230 V* |
| W | 37,5 V** |
| T | 72 V** |
| Y | 78 V** |
| V | 96 V** |
| E | 110 V** |

| Overrides | |
|-----------|-----------------------------|
| 0 | Without |
| 1 | Non locking (blue) |
| 2 | Locking (yellow) |
| 3 | Extended non locking (blue) |
| 4 | Extended locking (yellow) |

| Valve type/Function | |
|---------------------|---------------------------------|
| 1 | 3/2 valve, normally open (NO) |
| 3 | 3/2 valve, normally closed (NC) |

* For standard and food type only
 ** For mobile "M" version only

Technical data

| | NC, Standard | NC, Food ¹⁾ | NC, Mobile ²⁾ |
|----------------------|---|------------------------|--------------------------|
| Working pressure | 0 to 10 bar | 0 to 10 bar | 0 to 10 bar |
| Working temperature | -15 °C to +60 °C | -15 °C to +60 °C | -40 °C to +70 °C |
| Orifice | 1,0 mm | 1,0 mm | 1,0 mm |
| Flow Qmax | 33 NI/min | 33 NI/min | 22 NI/min |
| Power, hold | DC 1,2 W / AC 1,6 VA * | DC 1,2 W / AC 1,6 VA * | DC 1,4 W |
| Power, surge | DC 1,2 W / AC 3,5 VA * | DC 1,2 W / AC 3,5 VA * | DC 1,4 W |
| Connection time | 100% | 100% | 100% |
| Voltage tolerance | +10%/-15% | +10%/-15% | +25%/-30% |
| Electric connection: | DIN 43650 Form C | | |
| Port pattern: | To future CNOMO standard | | |
| Protection: | IP 65 | | |
| Approval: | Standard solenoids are UL 429 recognized and marked with the following symbol  | | |
| Working media: | All neutral media, such as compressed air, water, hydraulic oil and many gases. | | |
| 1) Design: | Completely smooth exterior, suitable for food industry. | | |
| 2) Mobile standard | According to European standard EN 50 155. | | |

* Power, hold for 230VAC 2.4VA
 Power, surge for 230VAC 5.5VA

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavourable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All cable plugs with a yellow LED also incorporate such protection.

Service life

With compressed air at 6 bar, 20 °C and complying with the requirements for compressed air quality as set out in ISO8573-1 norm (class 4 for dry and class 5 for filtered air), the valves should have a life of at least 50 million cycles.

Materials

Operator

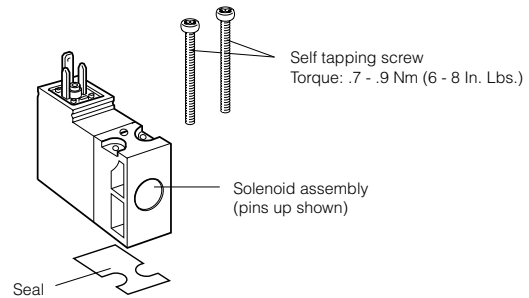
| | |
|----------------------|---------------------------------|
| Body, coil casing | Thermoplastic |
| Internal metal parts | Steel |
| Screws | Stainless steel |
| Bottom plug | Thermoplastic |
| Sealing materials | FPM (Viton™) and nitrile rubber |

Cable head

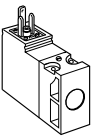


















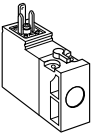




| | |
|-----------------|------------------------------------|
| Sheath | Thermoplastic |
| Retaining screw | Stainless steel, zinc-plated steel |

Solenoid Operators - 15mm

Electrical connection EN175301-803 C/ISO15217 (Ex DIN 43650C)

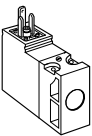










Solenoids 15 mm NC, standard (Note! Mounting screws included in basic valve)

| | Voltage | Weight kg | Order code | | Weight kg | Order code | | Weight kg | Order code | |
|---|-------------------------------|--------------|----------------------------|---|-------------------|---|--|-------------------|---|--|
| | | | Without manual override | | | Override, blue, non locking flush | | | Override, yellow, locking flush | |
|  | 12 VDC | 0,038 | P2E-KV32B0 |  | 0,038 | P2E-KV32B1 |  | 0,038 | P2E-KV32B2 |  |
| | 24 VDC | 0,038 | P2E-KV32C0 |  | 0,038 | P2E-KV32C1 |  | 0,038 | P2E-KV32C2 |  |
| | 48 VDC | 0,038 | P2E-KV32D0 |  | 0,038 | P2E-KV32D1 |  | 0,038 | P2E-KV32D2 |  |
| | 24 VAC 50Hz | 0,038 | P2E-KV31C0 |  | 0,038 | P2E-KV31C1 |  | 0,038 | P2E-KV31C2 |  |
| | 48 VAC 50/60Hz | 0,038 | P2E-KV34D0 |  | 0,038 | P2E-KV34D1 |  | 0,038 | P2E-KV34D2 |  |
| | 115 VAC 50Hz/ 120 VAC 60Hz | 0,038 | P2E-KV31F0 |  | 0,038 | P2E-KV31F1 |  | 0,038 | P2E-KV31F2 |  |
| | 230 VAC 50Hz/ 240 VAC 60Hz | 0,038 | P2E-KV31J0 | | 0,038 | P2E-KV31J1 | | 0,038 | P2E-KV31J2 | |
|  | Voltage | | Weight | | Order code | | Weight | | Order code | |
| | | | kg | | kg | Override extended, blue, non locking flush | | kg | Override extended, yellow, locking flush | |
| | 24 VDC | | 0,038 | | 0,038 | P2E-KV32C3 |  | 0,038 | P2E-KV32C4 |  |
| 24 VAC 50Hz | | 0,038 | | 0,038 | P2E-KV31C3 |  | 0,038 | P2E-KV31C4 |  | |

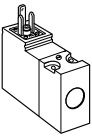















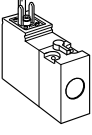






Solenoids 15 mm NC, mobile

(Note! Mounting screws are not included in basic valve)

| | Voltage | Weight kg | Order code | | Weight kg | Order code | |
|--|----------|--------------|----------------------------|---|--------------|--------------------------------------|--|
| | | | Without manual override | | | Override, blue, non locking flush | |
|  | 12 VDC | 0,038 | P2E-MV35B0 |  | 0,038 | P2E-MV35B1 | |
| | 24 VDC | 0,038 | P2E-MV35C0 |  | 0,038 | P2E-MV35C1 | |
| | 37,5 VDC | 0,038 | P2E-MV35W0 |  | 0,038 | P2E-MV35W1 | |
| | 48 VDC | 0,038 | P2E-MV35D0 |  | 0,038 | P2E-MV35D1 | |
| | 72 VDC | 0,038 | P2E-MV35T0 |  | 0,038 | P2E-MV35T1 | |
| | 78 VDC | 0,038 | P2E-MV35Y0 |  | 0,038 | P2E-MV35Y1 | |
| | 96 VDC | 0,038 | P2E-MV35V0 |  | 0,038 | P2E-MV35V1 | |
| | 110 VDC | 0,038 | P2E-MV35E0 |  | 0,038 | P2E-MV35E1 | |

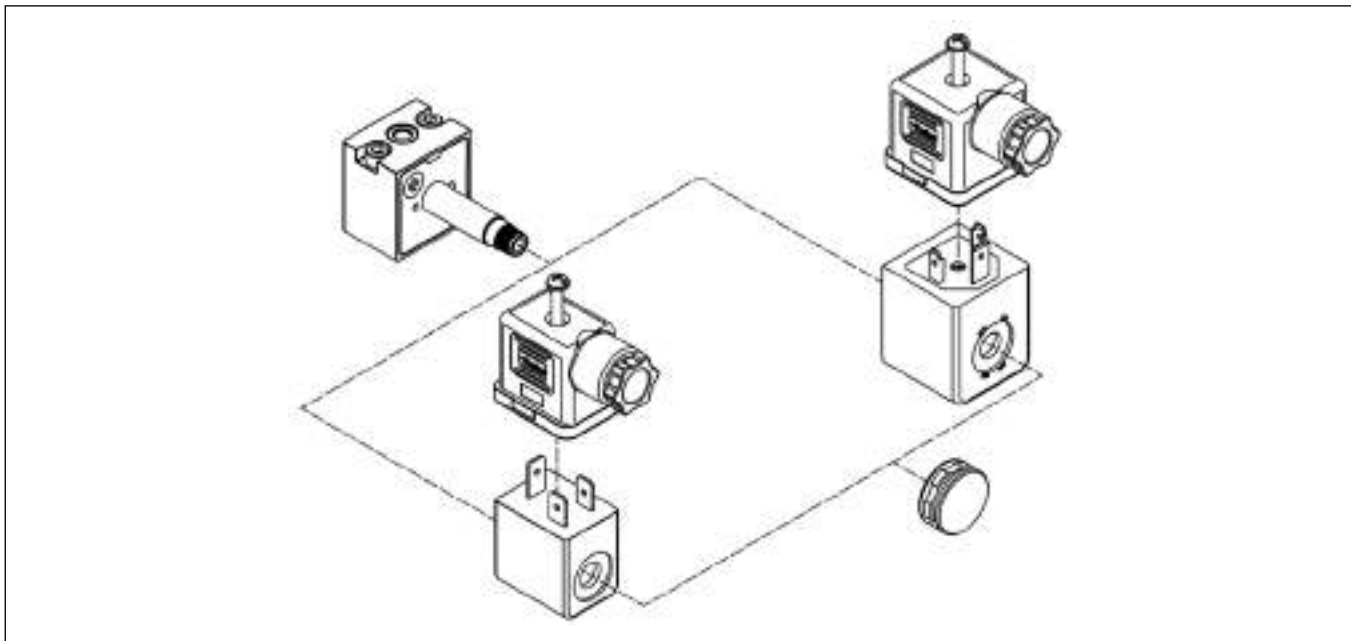
Solenoids 15 mm NC, food industry version

(Note! Mounting screws are not included in basic valve)

| | Voltage | Weight kg | Order code | | Weight kg | Order code | | Weight kg | Order code | |
|--|--|--------------|----------------------------|---|---|--------------------------------------|---|---|------------------------------------|---|
| | | | Without manual override | | | Override, blue, non locking flush | | | Override, yellow, locking flush | |
|  | 24 VDC | 0,038 | P2E-QV32C0 |  | 0,038 | P2E-QV32C1 |  | 0,038 | P2E-QV32C2 |  |
| | 48 VDC | 0,038 | P2E-QV32D0 |  | 0,038 | P2E-QV32D1 |  | 0,038 | P2E-QV32D2 |  |
| | 24 VAC 50Hz | 0,038 | P2E-QV31C0 |  | 0,038 | P2E-QV31C1 |  | 0,038 | P2E-QV31C2 |  |
| | 48 VAC 50/60Hz | 0,038 | P2E-QV34D0 |  | 0,038 | P2E-QV34D1 |  | 0,038 | P2E-QV34D2 |  |
| | 115 V 50Hz/ 120 V 60Hz | 0,038 | P2E-QV31F0 |  | 0,038 | P2E-QV31F1 |  | 0,038 | P2E-QV31F2 |  |
| | 230 VAC 50Hz/ 240 VAC 60Hz | 0,038 | P2E-QV31J0 | | 0,038 | P2E-QV31J1 | | 0,038 | P2E-QV31J2 | |
| |  | Voltage | | Weight | | Order code | | Weight | | Order code |
| | | kg | | kg | Override extended, blue, non locking flush | | kg | Override extended, yellow, locking flush | | |
| 24 VDC | | | 0,038 | | 0,038 | P2E-QV32C3 |  | 0,038 | P2E-QV32C4 |  |
| 24 VAC 50Hz | | | 0,038 | | 0,038 | P2E-QV31C3 |  | 0,038 | P2E-QV31C4 |  |
| 115 VAC 50 Hz | | | 0,038 | | 0,038 | P2E-QV31F3 |  | 0,038 | P2E-QV31F4 |  |
| 230 VAC 50 Hz | | 0,038 | | 0,038 | P2E-QV31J3 | | 0,038 | P2E-QV31J4 | | |

In accordance with the EU Machine Directive, EN 983, solenoid valves with manual override should have spring-return operating arms for safety.

Solenoid operators - CNOMO



CNOMO Solenoid pilot options

The P2F P23*** (NC) 3/2 solenoid pilot operators are designed for piloting pneumatic control valves with compressed air or inert gases. The P2F P operator is available for operating pressures up to 10 bar having an outlet orifice 1,3 mm and exhaust orifice 1,5 mm. Alternative operator are also available for an operating pressure up to 16 bar, or for a wide band voltage tolerance requires for mobile application.

Metal CNOMO Solenoid pilot for railway

An alternative operator, metal casting is also available for heavy duty or railway applications. This P2F P operator is available for operating pressures up to 10 bar having an outlet orifice 1,3 mm and exhaust orifice 1,5 mm, and compatible with a wide range of coil, having a wide band voltage tolerance.

Corrosion resistant design

The pilot operator body is manufactured in thermoplastic PA 6.6 material and the core tube brass/stainless steel. The plunger/core is made from stainless steel and the valve seats from FKM.

Coils

Coils are wound with enameled copper wire, class H temperature class F insulation (155°C) and are encapsulated in Thermoplastic. When fitted with suitable connector and correct gasket they give protection to IP65.

Solenoid Pilot Exhaust

These operators all exhaust out of the top of the core tube which is tapped M5. The standard solenoid nut fitted to the core tube is the Diffuser nut which allows the exhaust to escape to atmosphere. This nut also minimises ingress of dirt into the valve through this port. The alternative plastic knurled nut can be specified (refer to part number system) if the exhaust air needs to be captured and piped away using the M5 tapped port.

Mobile Applications

ISO valves are tested to +5g shock and vibration. Solenoid operated valves are designed to operate with extended voltage tolerance bands within the ambient temperature ranges stated in the technical section.

Manual Override options


The pilot operators can be supplied with or without manual override. The standard manual override is the monostable (spring return) flush brass override. Alternatively the bistable (locking) override can be specified as an alternative for the Normal duty 10bar option.

Spares

Solenoid operators are available as spares complete with mounting screws. Coils and connectors should be ordered separately.

Solenoid operators - CNOMO

Order key

| P | 2 | F | P | 2 | 3 | N | 4 | C |  | | | | | | | | | | | | | | | | | | | | |
|--|--|----------|----------|---|---------------|----------|----------|-----------------------|---|---------------------|---|--|-----------------|--|----------|-------------------------|----------|-------------------------|---|--|--|-------------------|--|----------|-------------------------|----------|--|----------|--------------------------------------|
| | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Operator Type</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td>CNOMO 22 x 30 Plastic</td> </tr> <tr> <td style="text-align: center;">4</td> <td>CNOMO 22 x 30 Metal</td> </tr> </tbody> </table> | Operator Type | | 2 | CNOMO 22 x 30 Plastic | 4 | CNOMO 22 x 30 Metal | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Pressure / Temp</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">M</td> <td>10 bar / -25°C to +50°C</td> </tr> <tr> <td style="text-align: center;">N</td> <td>10 bar / -10°C to +50°C</td> </tr> </tbody> </table> | | Pressure / Temp | | M | 10 bar / -25°C to +50°C | N | 10 bar / -10°C to +50°C | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Manual / Override</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td>Without manual override</td> </tr> <tr> <td style="text-align: center;">B</td> <td>Non locking - monostable - Flush - Brass</td> </tr> <tr> <td style="text-align: center;">C</td> <td>Locking - bistable - Flush - Plastic</td> </tr> </tbody> </table> | | | Manual / Override | | A | Without manual override | B | Non locking - monostable - Flush - Brass | C | Locking - bistable - Flush - Plastic |
| Operator Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | CNOMO 22 x 30 Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | CNOMO 22 x 30 Metal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pressure / Temp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | 10 bar / -25°C to +50°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N | 10 bar / -10°C to +50°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manual / Override | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | Without manual override | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Non locking - monostable - Flush - Brass | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | Locking - bistable - Flush - Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: 'C' only suitable for 'N' Pressure / Temp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Technical data - Solenoid operators, coil combinations

| | NC Normal Operator with 30 x 30 standard coil | NC Normal Operator with 22 x 30 standard coil | NC Mobile Metal Operator with 30 x 30 Railway or mobile coil |
|---------------------|---|--|---|
| Working pressure | 0 to 10 bar | 0 to 10 bar | 0 to 10 bar |
| Ambient temperature | -10 °C to 60 °C (1) | -10 °C to 60 °C (1) | -25 °C to 60 °C (1) |
| Orifice | 1.3/1.5mm | 1.3/1.5mm | 1.2/1.3mm |
| Flow Qn | 0.84 dm³/s | 0.84 dm³/s | 0.7 dm³/s |
| Power (DC) | 2.7W | 4.8W | 6.8W |
| Power (AC) | 4.9VA | 8.5VA | 10.5VA |
| Voltage tolerance | +/- 10% | +/- 10% | +/- 30% |
| Pull in voltage | | | According to VDE 0580 July 2000 |
| Duty cycle | 100% | 100% | 100% |
| Insulation class | F | F | F |
| Electric connection | Din A | Industrial | Din A |
| Protection | IP65 | IP65 | IP65 |
| Shock & Vibration | | | IEC 61373 Cat 1 Class B |
| Approval | UL coil version is available on request. | | |
| Working media | All neutral media such as compressed air and inert gases. | | |

(1) limited to 50°C if use with 100% duty cycle and max voltage.

Mobile applications

Solenoid operated ISO valves for Mobile applications are fitted with the P2FP43M4A solenoid pilot operator. It has a 22x30 footprint with 1.2/1.3 orifice and will accept 22mm or 30mm coil options. The choice of coil option will depend on the voltage tolerance. Use the technical data in the table above before selecting the coil type required, or contact our technical department.

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavourable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All connectors/cable plugs EN175301-803 with LED's include this type of circuit protection.

Materials

| Pilot Valve | Standard | Mobile |
|-----------------|---------------------------------|-----------------|
| Body: | Polyamide | Aluminium |
| Armature tube: | Brass | Stainless steel |
| Plunger & core: | Corrosion resistant Cr-Ni steel | |
| Seals: | FKM (Viton™) | Low temp FKM |
| Screws: | Zinc plated | Stainless steel |

Coil

| | |
|-------------------------|---|
| Encapsulation material: | Thermoplastic as standard thermoset resin for M12 connection |
|-------------------------|---|

Solenoid coils with Din A or Industrial connection

| Voltage | Order code Din A Standard 30 x 30 | Weight (kg) | Order code Din A Mobile 30 x 30 | Weight (kg) | Order code Industrial standard 22 x 30 | Weight (kg) |
|----------------------|-----------------------------------|-------------|---------------------------------|-------------|--|-------------|
| Direct current | | | | | | |
| 12V DC | P2FCA445 | 0.105 | P2FCA447 | 0.105 | P2FCB445 | 0.093 |
| 24V DC | P2FCA449 | 0.105 | P2FCA448 | 0.105 | P2FCB449 | 0.093 |
| 48V DC | P2FCA453* | 0.105 | P2FCA474 | 0.105 | P2FCB451 | 0.093 |
| 72V DC | | | P2FCA470 | 0.105 | | |
| 96V DC | | | P2FCA471 | 0.105 | | |
| 110V DC | | | P2FCA472 | 0.105 | | |
| Alternative current | | | | | | |
| 12V 50/60Hz | P2FCA440 | 0.105 | | | P2FCB440 | 0.093 |
| 24V 50/60Hz | P2FCA442 | 0.105 | | | P2FCB442 | 0.093 |
| 48V 50/60Hz | P2FCA469# | 0.105 | | | | |
| 110V 50Hz, 120V 60Hz | P2FCA453 | 0.105 | | | P2FCB453 | 0.093 |
| 230V 50Hz, 230V 60Hz | P2FCA457 | 0.105 | | | P2FCB457 | 0.093 |

* P2FCA453 is compatible with 110 V AC and 48 V DC

P2FCA469 is 24 V DC 6.8W or 48 V 50Hz 9.9 VA

Solenoid coils with M12 connection

| Voltage | Order code 30 x 30 | Weight (kg) | Order code 22 x 30 | Weight (kg) |
|----------------|--------------------|-------------|--------------------|-------------|
| Direct current | | | | |
| 24V DC | P2FC6419 | 0.065 | P2FC7419 | 0.065 |

Spare Solenoid Nuts

Valves requiring captured exhaust should be fitted with plastic knurled nut

Order code

P2FNP

Valves with vented exhaust are fitted with diffuser plastic nut

Order Code

P2FND

Spare Solenoid Operators

Solenoid pilot operator CNOMO NC




| Description | Order code No manual override | Weight (kg) | Order code Non-lock manual override | Weight (kg) | Order code Locking manual override | Weight (kg) |
|---------------|-------------------------------|-------------|-------------------------------------|-------------|------------------------------------|-------------|
| Standard duty | P2FP23N4A | 0.065 | P2FP23N4B | 0.065 | P2FP23N4C | 0.065 |
| Mobile metal | P2FP43M4A | 0.1 | | | | |

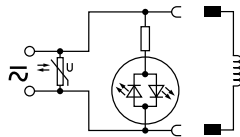
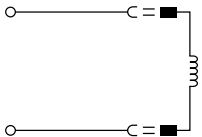
Note.

Solenoid pilot operators are fitted to the Viking valve range. Order the above part numbers for spares. The operators are supplied with mounting screws and interface 'O' rings.

Coils and connectors must be ordered separately.

Solenoid Connectors / Cable Plugs EN175301-803

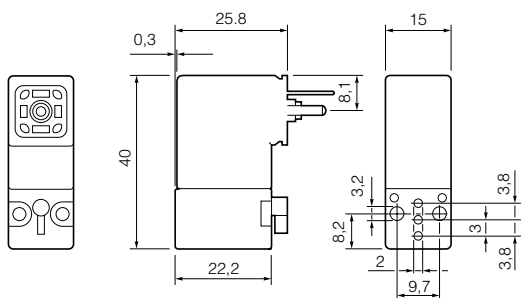
| | Description | Order code 15mm Form C/ISO15217 | Order code 22mm Industrial Form B | Order code 30mm Form A/ISO4400 |
|---|---|---------------------------------------|---|--------------------------------------|
| With large headed screw suitable for mounting in inaccessible or recess position  | Standard IP65 | P8C-C | | |
| | 24 VDC LED and protection IP65 | P8C-C26C | | |
| | 110 VAC LED and protection IP65 | P8C-C21E | | |
| With standard screw  | Standard IP65 without flying lead | P8C-D | 3EV10V10 | 3EV290V10 |
| | With LED and protection 24V AC/DC | P8C-D26C | 3EV10V20-24 | 3EV290V20-24 |
| | With LED and protection 110 VAC | P8C-D21E | 3EV10V20-110 | 3EV290V20-110 |
| | With LED and protection 230 VAC | | 3EV10V20-230 | 3EV290V20-230 |
| With cable  | Standard with 2m cable IP65 | P8L-C2 | | |
| | Standard with 5m cable IP65 | P8L-C5 | | |
| | 24V AC/DC, 2m cable LED and protection IP65 | P8L-C226C | | |
| | 24V AC/DC, 5m cable LED and protection IP65 | P8L-C526C | 3EV10V20-24L5 | 3EV290V20-24L5 |
| | 24V AC/DC, 10m cable LED and protection IP65 | P8L-CA26C | | |
| | 110V AC/DC, 2m cable LED and protection IP65 | P8L-C221E | | |
| | 110V AC/DC, 5m cable LED and protection IP65 | P8L-C521E | 3EV10V20-110L5 | 3EV290V20-110L5 |
| | 230 VAC, 5m cable LED and protection IP65 | | 3EV10V20-230L5 | 3EV290V20-230L5 |



| | | |
|-----------------|---------------------|-----------------------|
| P8C-C | P8C-D26C | P8L-C226C |
| P8C-D | P8C-D21E | P8L-C526C |
| P8L-C2 | P8C-C26C | P8L-CA26C |
| P8L-C5 | P8C-C21E | P8L-C221E |
| 3EV10V10 | | P8L-C521E |
| | 3EV10V20-24 | 3EV10V20-24L5 |
| | 3EV10V20-110 | 3EV10V20-110L5 |
| | 3EV10V20-230 | 3EV10V20-230L5 |

Cable Plug Dimensions (mm)

Solenoid operators P2E - 15mm

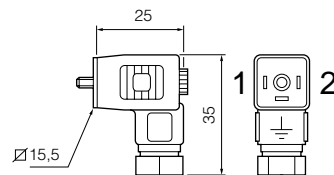


Solenoid operators P2F - CNOMO - 22 x 30mm



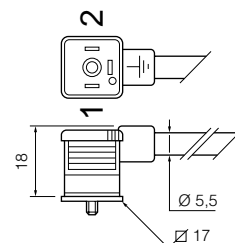
Cable plugs

- P8L-C2**
- P8LC5**
- P8L-C226C**
- P8L-C526C**
- P8L-CA26C**
- P8L-C221E**
- P8L-C521E**



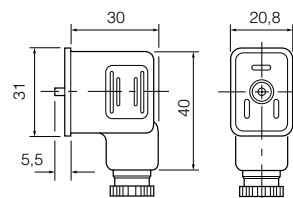
Cable plugs

- P8C-C**
- P8C-C26C**
- P8C-C21E**
- P8C-D**
- P8C-D26C**
- P8C-D21E**



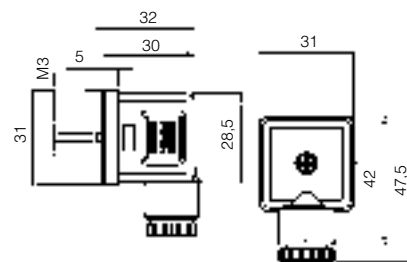
Cable plugs

- 3EV10V10**



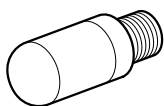
Cable plugs

- 3EV290V10**



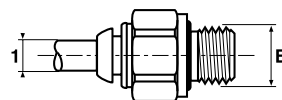
Accessories

Silencers



| Port | Ordercode | Pack Qty |
|------|-----------------|----------|
| G1/8 | P6M-PAB1 | 10 |
| G1/4 | P6M-PAB2 | 10 |
| G3/8 | P6M-PAB3 | 10 |
| G1/2 | P6M-PAB4 | 10 |

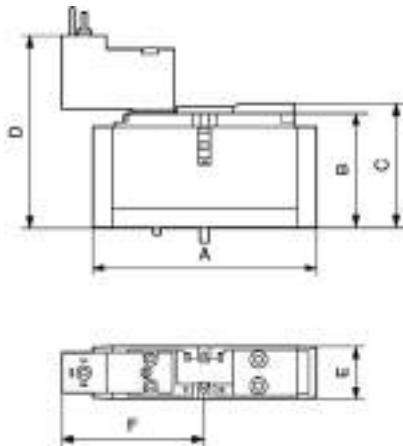
Fittings



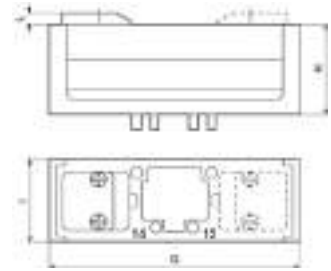
Male connector - BSPP

| Tube dia 1 | Thread | Order code | Box Qty |
|------------|----------|-------------------|---------|
| | B | | |
| 4 | 1/8 | F4PMB4-1/8 | 20 |
| 4 | 1/8 | F4PMB4-1/8 | 20 |
| 6 | 1/8 | F4PMB6-1/8 | 30 |
| 8 | 1/8 | F4PB8-1/8 | 40 |
| 6 | 1/4 | F4PMB6-1/4 | 30 |
| 8 | 1/4 | F4PB8-1/4 | 30 |
| 10 | 1/4 | F4PB10-1/4 | 20 |
| 12 | 1/4 | F4PB12-1/4 | 10 |
| 8 | 3/8 | F4PB8-3/8 | 20 |
| 10 | 3/8 | F4PB10-3/8 | 20 |
| 12 | 3/8 | F4PB12-3/8 | 10 |
| 14 | 3/8 | F4PB14-3/8 | 10 |
| 10 | 1/2 | F4PB10-1/2 | 10 |
| 12 | 1/2 | F4PB12-1/2 | 10 |
| 14 | 1/2 | F4PB14-1/2 | 10 |

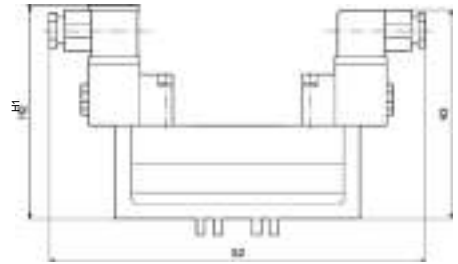
Isomax - Dimensions (mm)



Pneumatically actuated



With P2F solenoids



| | A | B | C | D | E | F |
|------------------|-----|----|------|------|----|------|
| Isomax 02 | 80 | 41 | 44,5 | 67,8 | 18 | 51,2 |
| Isomax 01 | 100 | 42 | 45,5 | 68,8 | 26 | 51,2 |

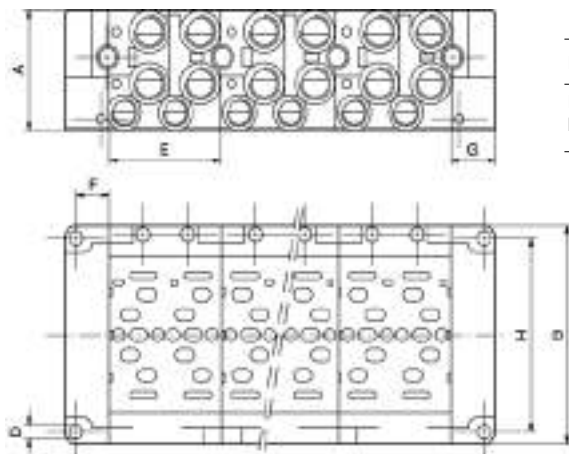
| | G | G1 | G2 | G3 | H | H1 | I | L |
|---------------|-----|-------|-------|-------|------|-------|----|---|
| Size 1 | 120 | 164 | 202,5 | 160 | 47 | 119 | 42 | 5 |
| Size 2 | 140 | 179,5 | 218 | 175,5 | 58,5 | 130 | 54 | 5 |
| Size 3 | 170 | 198 | 235,5 | 194 | 71 | 142,5 | 68 | 5 |

Single subbases side ported



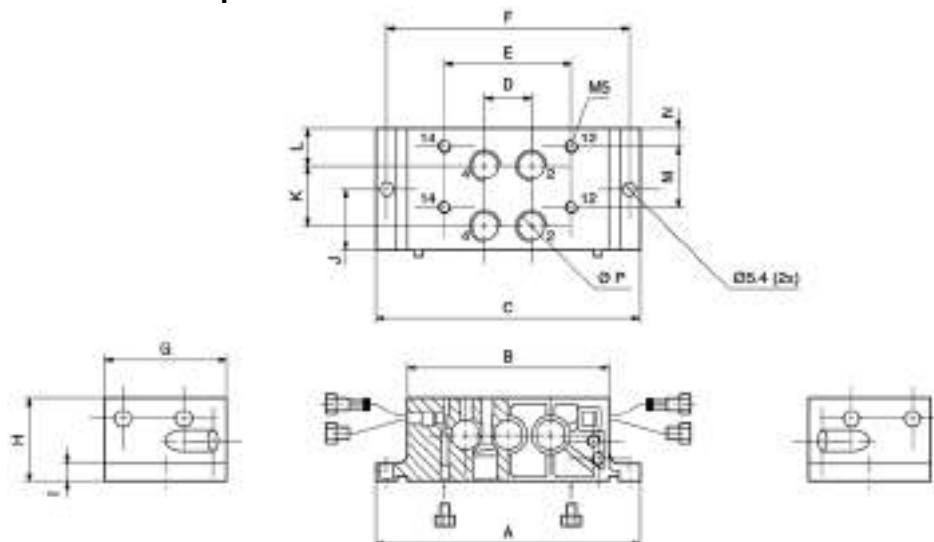
| | Size | A | B | C | D | E | F | G | H | I | J | K | L | M | N | P | Q | R | S | T |
|--------------------|------|----|----|------|------|----|-----|----|----|-----|----|----|------|----|---|----|----|----|----|----|
| PL02-01-70 | 02 | 80 | 70 | 16 | G1/8 | 52 | 8 | 27 | 19 | 5,5 | 40 | 17 | G1/8 | M5 | 8 | 8 | 8 | 22 | 13 | 6 |
| P2V-BS512SS | 01 | 92 | 80 | 21,2 | G1/8 | 68 | 6,5 | 42 | 27 | 5,5 | 55 | 22 | G1/8 | M5 | 6 | 11 | 17 | 28 | 14 | 21 |

Side ported manifolds for 2 valve positions



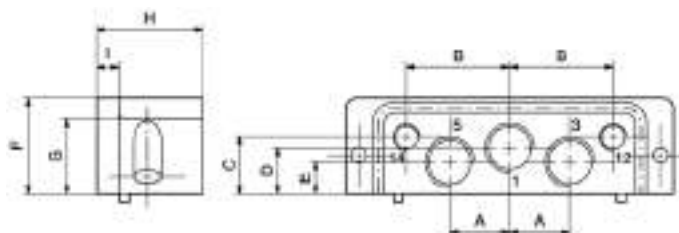
| | Size | A | B | C | D | E | F | G | H |
|----------------------|------|------|-----|----|-------|----|----|----|----|
| PJLP02-201-70 | 02 | 38,5 | 80 | 12 | Ø 4,2 | 38 | 14 | 18 | 72 |
| PJLP01-201-70 | 01 | 55 | 100 | 24 | Ø 5,5 | 54 | 17 | 22 | 90 |

Bottom ported manifolds for 2 valve positions



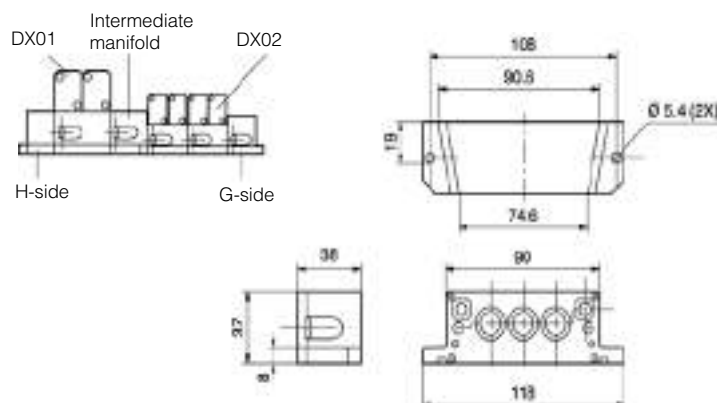
| | Size | A | B | C | D | E | F | G | H | I | J | K | L | M | N | P |
|--------------------|------|-----|----|------|----|------|-----|----|----|---|----|----|------|----|---|------|
| P2V-AM511PB | 02 | 102 | 74 | 74,6 | 16 | 43 | 92 | 38 | 26 | 7 | 19 | 19 | 11 | 19 | 5 | G1/8 |
| P2V-BM512PB | 01 | 118 | 90 | 90,6 | 21 | 56,5 | 108 | 54 | 37 | 8 | 27 | 27 | 16,5 | 27 | 8 | G1/4 |

G and H side end plate bottom ported for above bottom ported manifold

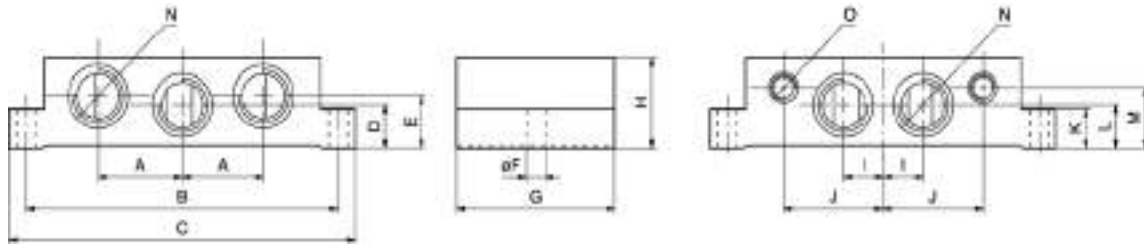


| | Size | Port size 1,2,3 | Port size 12, 14 | A | B | C | D | E | F | G | H | I |
|------------------------------------|------|--------------------|---------------------|------|----|----|------|-----|------|----|----|---|
| P2V-AM512GB and P2V-AM512HB | 02 | G1/4 | G1/8 | 17 | 29 | 21 | 18,5 | 9,5 | 35,5 | 28 | 33 | 7 |
| P2V-BM513GB and P2V-BM513HB | 01 | G3/8 | G1/8 | 21,5 | 37 | 20 | 16 | 11 | 34,5 | 28 | 38 | 8 |

Transfer plate size 01 to size 02 for above bottom ported manifold

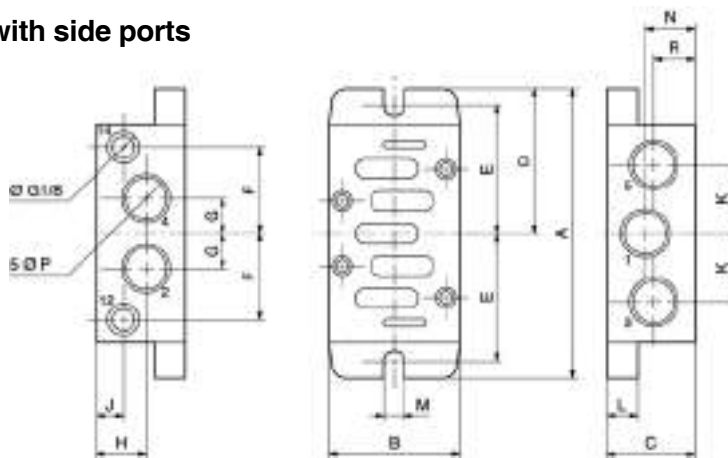


Single subbase with side ports according to VDMA - Dimensions



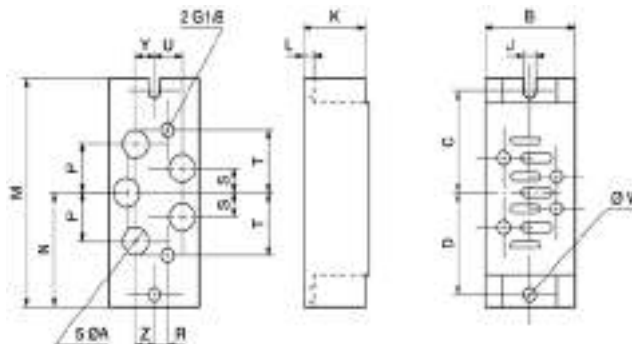
| Order code | Size ISO | Port Size | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|-------------|----------|-----------|------|-----|-----|----|----|-----|----|----|----|----|----|----|----|------|------|
| P2N-VS512SD | 1 | G1/4 | 21,5 | 98 | 110 | 11 | 20 | 5,5 | 48 | 32 | 12 | 29 | 10 | 11 | 23 | G1/4 | G1/8 |
| P2N-WS513S | 2 | G3/8 | 28 | 112 | 124 | 14 | 26 | 6,6 | 56 | 40 | 15 | 37 | 13 | 14 | 30 | G3/8 | G1/8 |
| P2N-YS514SD | 3 | G1/2 | 34 | 136 | 149 | 17 | 17 | 6,6 | 71 | 32 | 16 | 45 | 18 | 17 | 22 | G1/2 | G1/8 |

Single subbase with side ports



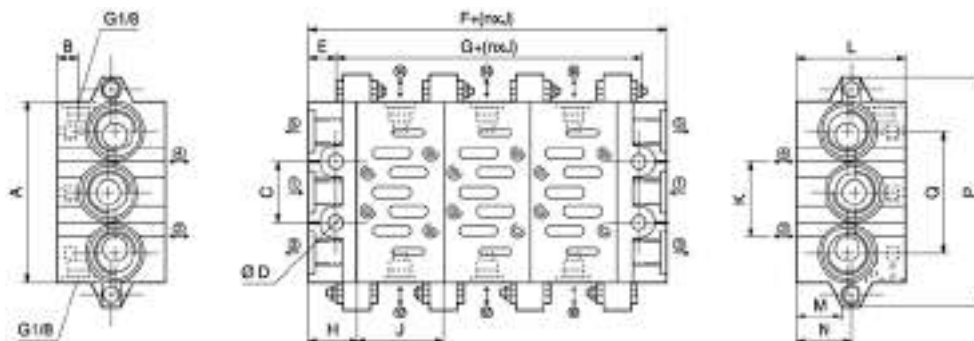
| Order code | ISO Size | ØP | A | B | C | D | E | F | G | H | J | K | L | M | N | R |
|-------------|----------|------|-----|----|----|------|----|----|------|-------|-------|----|----|-----|-------|-------|
| PL1-1/4-70 | 1 | G1/4 | 110 | 46 | 29 | 55 | 49 | 30 | 11 | 17,75 | 17,75 | 22 | 6 | 5,5 | 17,75 | 17,75 |
| PL2-3/8-70 | 2 | G3/8 | 124 | 56 | 37 | 62 | 55 | 37 | 14,5 | 22,5 | 14 | 28 | 6 | 5,5 | 22,5 | 14,5 |
| P2N-JS516SD | 3 | G3/4 | 149 | 71 | 60 | 74,5 | 68 | 45 | 21 | 33 | 10 | 40 | 18 | 6,6 | 37,5 | 22,5 |

Single subbase with bottom ports



| Order code | A | B | C | D | J | K | L | M | N | P | R | S | T | U | W | Y | Z |
|------------|------|----|----|----|-----|----|----|-----|------|----|----|------|----|------|-----|------|------|
| PD1-1/4-70 | G1/4 | 46 | 49 | 49 | 5,5 | 29 | 6 | 110 | 55 | 22 | 10 | 11 | 30 | 10 | 5,5 | 10 | 10 |
| PD2-3/8-70 | G3/8 | 56 | 55 | 55 | 5,5 | 37 | 6 | 124 | 62 | 29 | 10 | 14,5 | 37 | 12,5 | 5,5 | 12,5 | 12,5 |
| PD3-1/2-70 | G1/2 | 77 | 68 | 68 | 6,6 | 32 | 18 | 149 | 74,5 | 34 | 10 | 17 | 45 | 17 | 6,5 | 17 | 17 |

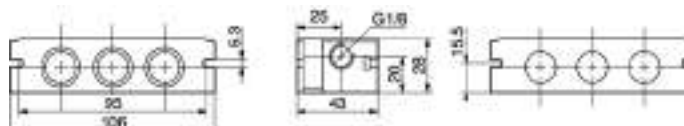
Manifold and end plates according to VDMA (P2N-VM / WM / YM) - Dimensions



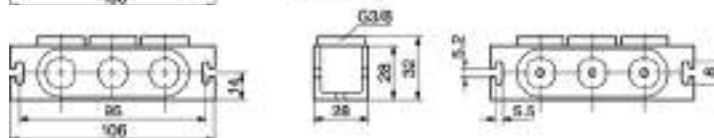
| ISO Size | Port 1, 3, 5 | Port 2, 4 | A | B | C | D | E | F | G | H | J | K | L | M | N | O | P |
|----------|--------------|-----------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| 1 | G3/8 | G1/4 | 85 | 8,5 | 28 | 7 | 11 | 44 | 22 | 22 | 43 | 26 | 46 | 21 | 24 | 56 | 110 |
| 2 | G1/2 | G3/8 | 100 | 9 | 35 | 9 | 13 | 52 | 26 | 26 | 56 | 30 | 47 | 22 | 24 | 68 | 135 |
| 3 | G1 | G1/2 | 140 | 10 | 52 | 12 | 15 | 60 | 30 | 30 | 71 | 38 | 56 | 31 | 34 | 104 | 190 |

Manifold and end plates with bottom ports "low profile" (P2N-AM..)

Manifold P2N-AM512MB



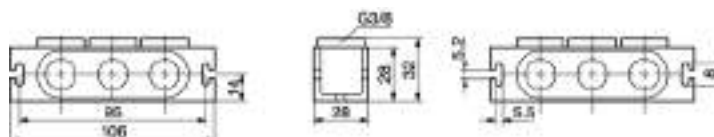
Connecting block P2N-AM513GT



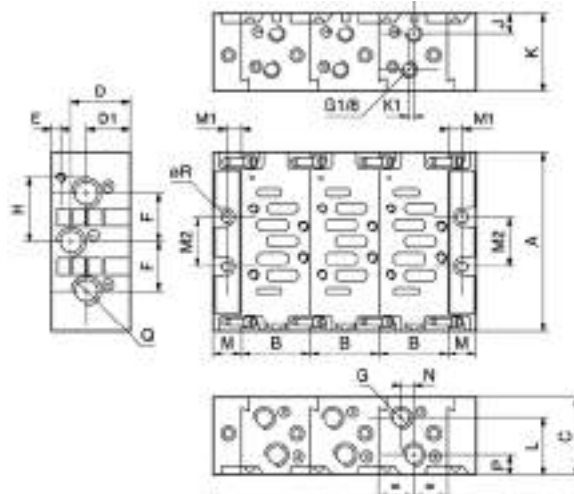
End piece P2N-AM500J



Intermediate supply P2N-AM513BT



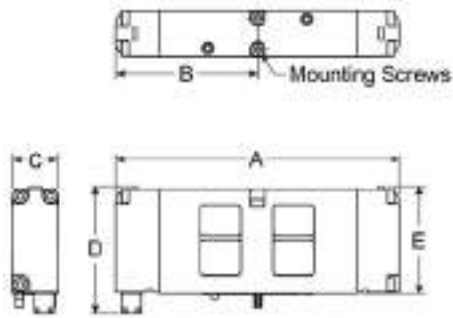
Manifold and end plates with side ports (P2N-EM / FM..)



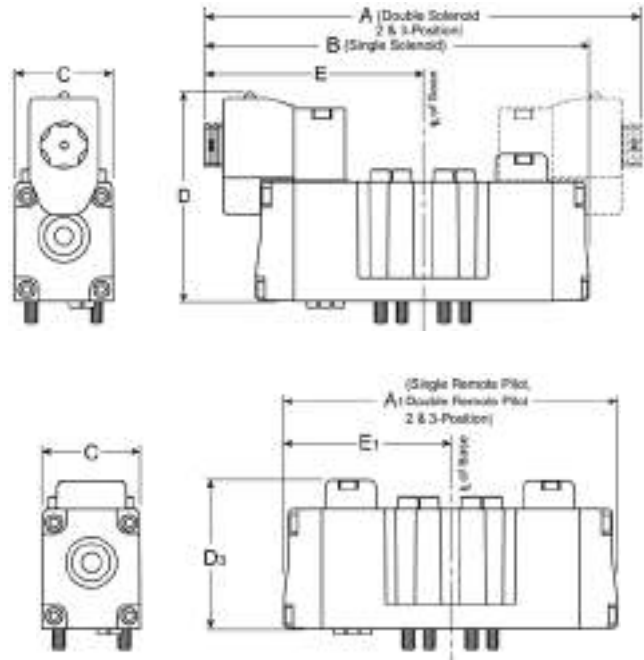
| Order code | A | B | C | D | D1 | E | F | G | H | J | K | K1 | L | M | M1 | M2 | N | P | Q | R |
|------------|-----|----|----|------|------|-----|------|------|----|------|------|----|----|----|----|----|------|------|------|---|
| P2N-EM ... | 110 | 43 | 48 | 35,5 | 26,5 | 5,5 | 28 | G1/4 | 36 | 15,5 | 35 | 3 | 32 | 20 | 11 | 28 | 12 | 12,5 | G3/8 | 6 |
| P2N-FM ... | 129 | 56 | 60 | 44,5 | 35,5 | 6 | 34,5 | G3/8 | 45 | 16 | 41,5 | 3 | 41 | 24 | 13 | 35 | 12,5 | 16 | G1/2 | 8 |

Isysnet Field Bus System - Dimensions

15407-2 Series Valves



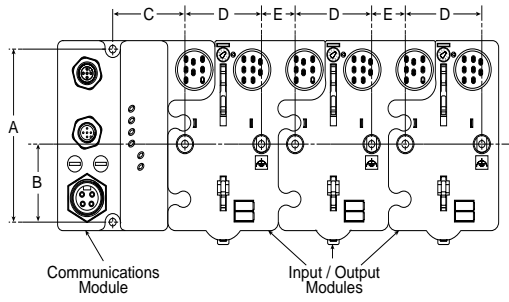
H1 / H2 / H3 Series Valves 5599-2



| | A | B | C | D | E |
|-----------|-----|----|----|----|----|
| HB | 113 | 56 | 18 | 50 | 43 |
| HA | 130 | 65 | 26 | 50 | 42 |

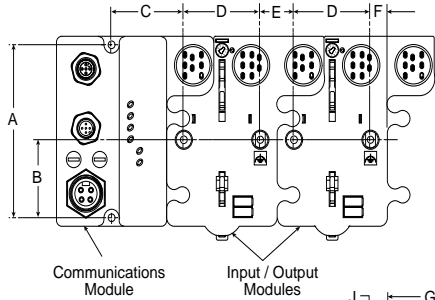
| | A | A ₁ | B | C | D | D ₁ | D ₂ | D ₃ | D ₄ | E | E ₁ |
|-----------|-----|----------------|-----|----|-----|----------------|----------------|----------------|----------------|-----|----------------|
| H1 | 186 | 142 | 164 | 42 | 90 | 109 | 109 | 63.5 | 63 | 93 | 71 |
| H2 | 212 | 168 | 190 | 55 | 103 | 122 | 116 | 76 | | 106 | 84 |
| H3 | 241 | 177 | 209 | 55 | 103 | 122 | 116 | 76 | | 121 | 89 |

Isysnet Field Bus System - Dimensions



**HB-HA
 Dimensions**

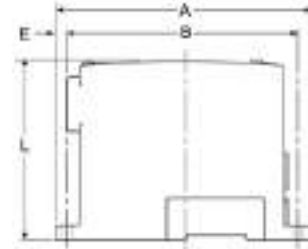
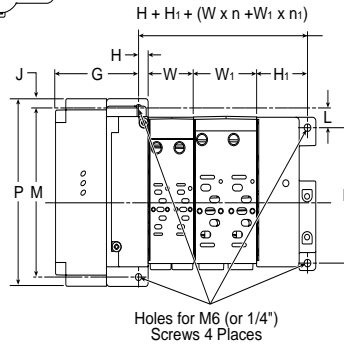
| | | | |
|----------|----------|----------|----------|
| A | B | C | D |
| 102 | 46 | 48 | 51 |
| E | F | | |
| 22 | 11 | | |



n = Number of 18mm HB Bases
 n1 = Number of 26mm HA Bases
 W = Width of 18mm HB Bases
 W1 = Width of 26mm HA Bases

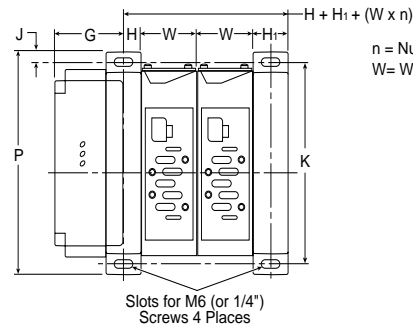
**HB-HA
 Dimensions**

| | | | | |
|----------|----------------------|----------|----------------------|----------|
| A | B | E | L | G |
| 152 | 137 | 7.5 | 106 | 68 |
| H | H₁ | J | K | L |
| 8.4 | 45.8 | 4 | 110 | 16 |
| M | P | W | W₁ | |
| 137 | 152 | 40.8 | 56.8 | |



**H1
 Dimensions**

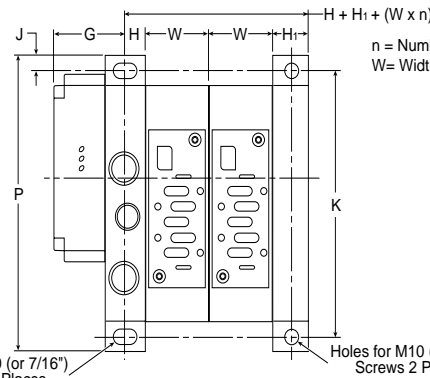
| | | | | |
|----------|----------|----------------------|----------|----------|
| G | H | H₁ | J | K |
| 56 | 15.9 | 15.9 | 8.5 | 165 |
| P | W | | | |
| 182 | 49 | | | |



n = Number of H1 Bases
 W = Width of H1 Bases

**H2
 Dimensions**

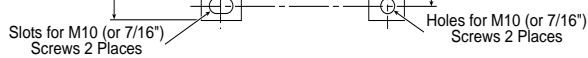
| | | | | |
|----------|----------|----------------------|----------|----------|
| G | H | H₁ | J | K |
| 58 | 8.418 | 15 | 12 | 215 |
| P | W | | | |
| 239 | 56 | | | |



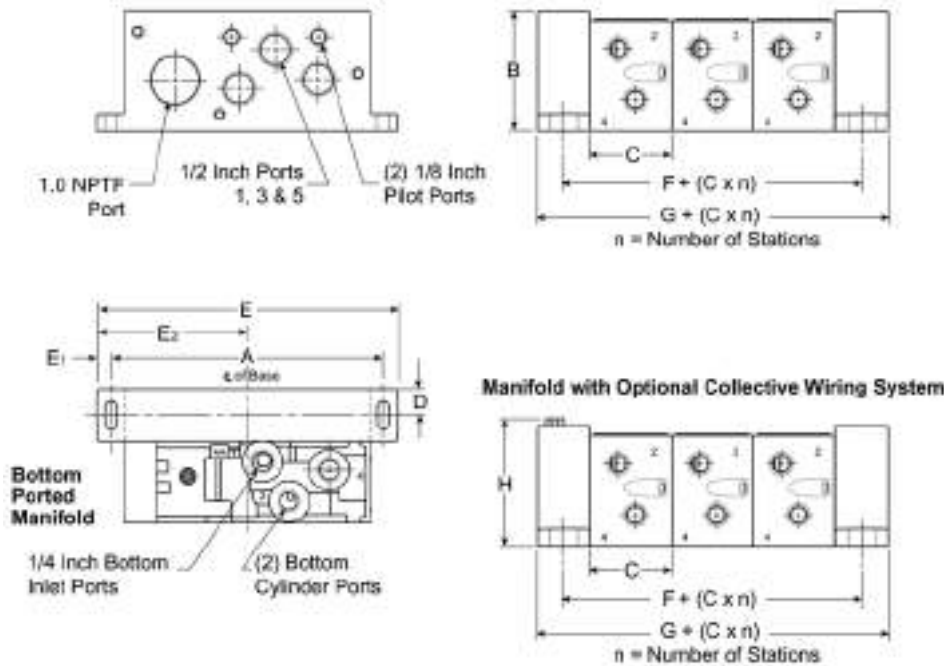
n = Number of H2 / H3 Bases
 W = Width of H2 / H3 Bases

**H3
 Dimensions**

| | | | | |
|----------|----------|----------------------|----------|----------|
| G | H | H₁ | J | K |
| 64 | 24 | 16.5 | 15 | 265 |
| P | W | | | |
| 295 | 71 | | | |

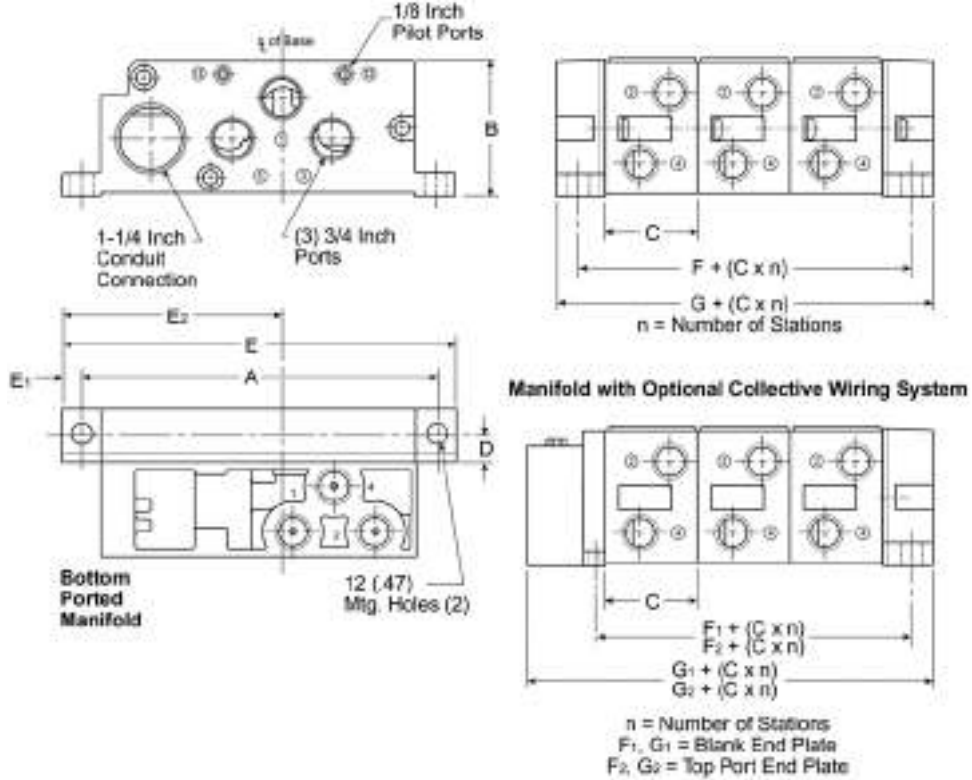


H1 5599-2 / 5599-1 Manifold



| | A | B | C | D | E | E ₁ | E ₂ | F | G | H |
|----|-----|----|----|------|-----|----------------|----------------|------|------|----|
| H1 | 165 | 73 | 49 | 15.9 | 182 | .84 | 91 | 31.8 | 63.5 | 76 |

H2 / H3 5599-2 / 5599-1 Manifold



| | A | B | C | D | E | E ₁ | E ₂ | F | F ₁ | F ₂ | G | G ₁ * | G ₂ * |
|----|-----|----|----|----|-----|----------------|----------------|----|----------------|----------------|----|------------------|------------------|
| H2 | 215 | 85 | 56 | 15 | 239 | 12 | 134 | 30 | 27 | 33 | 60 | 87 | 99 |

| | A | B | C | D | E | E ₁ | E ₂ | F | F ₁ | F ₂ | G | G ₁ * | G ₂ * |
|----|-----|-----|----|----|-----|----------------|----------------|----|----------------|----------------|----|------------------|------------------|
| H3 | 265 | 105 | 71 | 17 | 295 | 15 | 159 | 33 | 29 | 41 | 63 | 90 | 114 |

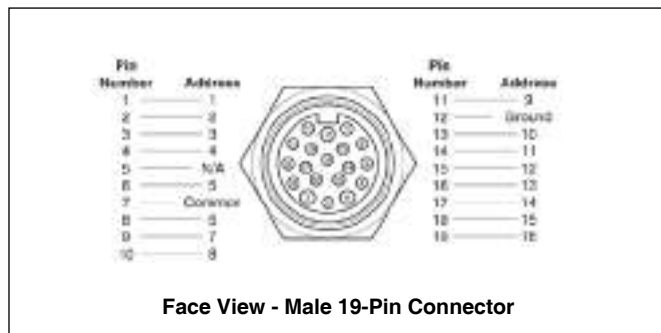
Interconnect Circuit Boards

Maximum Solenoids Energized Simultaneously

| HA HB | Voltage code | 25-pin D-Sub | 19-pin round | Single 12-pin M23 | Isysnet | |
|----------------|-----------------|-----------------|-----------------|-------------------------|---------|---------|
| 24 V DC | B9 / G9 | 24 | 16 | 8 | 32 | |
| 120 V AC* | 23 | 24 | 16 | 8 | 32 | |
| H1 H2 H3 | Voltage code | 25-pin D-Sub | 19-pin round | Single 12-pin M23 | Isysnet | SAM 3.0 |
| 12 V DC | 45 | 13 | 13 | 8 | N/A | N/A |
| 24 V AC* | 42 | 24 | 16 | 8 | N/A | N/A |
| 24 V DC | B9 | 20 | 16 | 8 | 21 | 4 |
| 120 V AC* | 23 | 24 | 16 | 8 | N/A | N/A |

* Not CSA certified for 25-pin, D-Sub option.

19-Pin Round Brad Harrison



19-Pin Round Cable Specifications

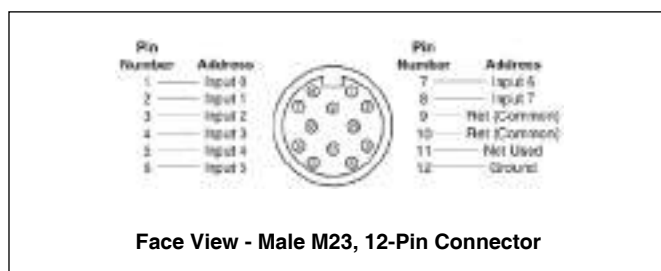
Common Pin "7" is rated for 8 amps. Cable common wire must be greater than total amperage of solenoids on Add-A-Fold assembly.

Example:- 8 station manifold, 16 solenoids,
120VAC - 16 x .039 amps = .63 total amp rating.
NEMA 4 rated with properly assembled NEMA 4 rated cable.

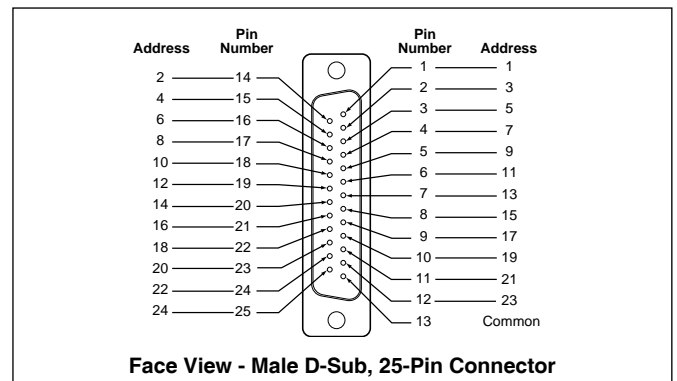
Brad Harrison #333030P80M050 16.40 ft. (Female to Male Cable)

Brad Harrison #333030P80M0100 32.80 ft. (Female to Male Cable)

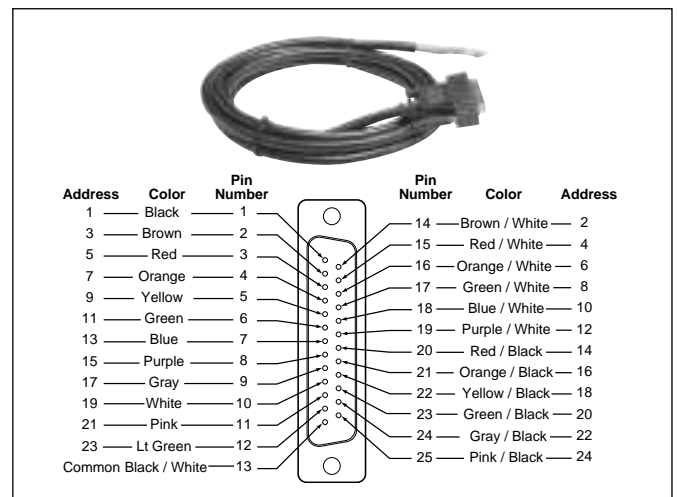
M23, 12-Pin Round Connector (Male)



25-Pin, D-Sub Connector (Male)



25-Pin, D-Sub Cable (Female)

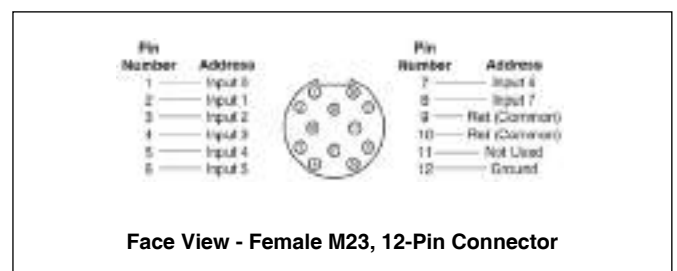


25-Pin, D-Sub Cable Specifications

Common Pin "13" is rated for 3 amps. Common wire rating must be greater than total amperage of all solenoids on a Add-A-Fold assembly.

IP65 rated with properly assembled IP65 rated cable.

M23, 12-Pin Round Connector (Female)



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