

Valves and Logic Processing



Moduflex Valves



ISOMAX Valves



VIKING X TREME

Adex



PXC / PXB / VA 13/15

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. The table is based on a maximum cylinder speed of 0,5m/s.

Following data is valid:

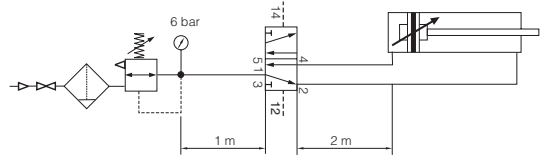
Supply pressure: min 7,0 bar

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

The table is made for a cylinder speed max 0,5 m/s



Cylinder														
Cylinder diameter mm	Ø10	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125	Ø160	Ø200
Cylinder ISO connection	M5	M5	M5	G1/8	G1/8	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2	G3/4	G3/4
Tube														
Tube diameter mm Ext / Int	4 / 2.7	4 / 2.7	4 / 2.7	6 / 4	6 / 4	6 / 4	8 / 6	8 / 6 10 / 8	10 / 8	12 / 9 14 / 11	12 / 9	16 / 13	18 / 15	22 / 16
FRL units														
Moduflex P3H														
Moduflex P3K														
Moduflex P3M														
Valves														
4mm inst. fitting valve														
M5 valve														
6mm inst. fitting valve														
1/8 valve														
1/4 valve														
3/8 valve														
1/2 valve														

Possible
 Recommended
 Cylinder speed < 0,5 m/s
 Not recommended

General lightweight applications & Individual/multiple field bus connections

P2M Moduflex valves

See page: 128



- High flow, compact size.
- Mixable valve sizes.
- Stand alone valves, modular islands with individual, multiconnector or bus connections.
- Integrated selectable internal or external pilot supply and exhaust.
- Optional peripheral modules.
- Push-in connection.
- DIN rail or block mounting.

Poppet valve for enclosures

PS1 Interface

See page: 148



- High speed poppet valve
- Push-in connection
- Built-in terminal block
- Pneumatic output indicator
- DIN rail mounting

Stackable inline lightweight valve

PVL Compact valves

See page: 151



- High flow, compact size
- Push-in or threaded connection
- DIN rail or block mounting
- Light weight construction

ISO Valves

ISO 15407 / ISO 5599 - Plug-in / Non plug-in

General applications

Isomax valves

See page: 166



- Size 1, 2, 3, 01, 02 (26 and 18 mm)
- Ceramic technology for long life operation
- From vacuum up to 10 bar applications (15407-1)
- From vacuum up to 12 bar applications (5599-1)
- Internal or external pilot supply with same valves
- Common M12 (5599-1)
- M12 on each coil (5599-1)

Heavy duty applications, Multiple connection and Plug-in

Isys ISO valves

See page: 171

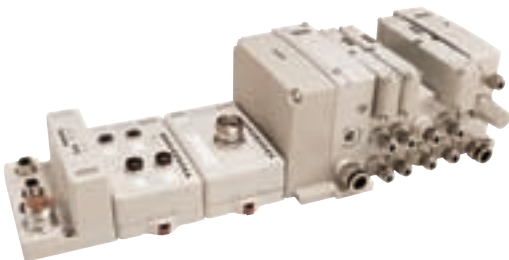


- Complete ISO valve range
- Heavy duty and corrosion resistant body
- Internal led & rectifier
- Vacuum up to 10 bar
- Internal or external pilot supply with same valve.
- Multiple connection, Sub-D25, M23, terminal blocks

Field Bus

Isysnet

See page: 192



- Compatible with Profibus DP, DeviceNet, ControlNet and Ethernet IP
- Accept signals from sensors, photo eyes, limit switches and other input devices
- Broad choice of I/O types with connector choice of 8mm, 12mm, 23mm
- Choice of digital, analog, or high watt I/O modules

Stand alone or on a manifold, Ideal for 1 to 4 valves for OEM

Heavy duty applications / Mobile

Viking Xtreme metal spool valves

See page: 205



- 4 sizes: G1/8, G1/4, G3/8 and G1/2.
- Wide operating temperature range
- Compact design with good corrosion resistance.
- Wide range of 5/2 and 5/3 versions.
- High and low temperature versions available for transport applications.

Industrial applications

B Series high performance industrial valves

See page: 217



- 2 sizes: 1/8" and 1/4"
- Compact size
- Inlet-exhaust-mounting facility
- Fast response, high flow
- Integrated mounting holes
- Wear compensating seal system
- DIN rail mountable manifolds

Miniature valves

ADEX directional control valves

See page: 233



- 2 sizes: M5 and 1/8"
- Compact body with large flow
- Quick response time, faster than 10ms
- Expected life time more than 50,000,000 cycles
- Low power consumption only 0.6W
- Optional multipin connector manifold
- Manual override

Mechanical Valves

Metal valves

Midget and Intermediate valves

See page: 239



- 43 series G1/8 body ported
- 53 series G1/4 body ported
- Stainless steel spool
- 3/2, 5/2 and 5/3 versions
- Viton body seals as standard
- Integral mounting holes

Push Buttons

General applications

PXB Control and process duty Ø 22mm

See page: 253



- Facia mounted operation
- 3/2 NO or NC
- Modular construction
- Wide range of actuators
- Dual pneumatic and electrical output signal

Heavy duty applications

VA - Brass bodied spool valves

See page: 256



- Rugged valves for heavy duty applications
- Large and robust actuators for easy operation
- Excellent corrosion resistance
- Integral mounting holes
- Panel mounting versions

General Automation and Assembly Cells

PXC Limit Switches

See page: 260



- High durability
- Very good repeat accuracy
- Design for process duty cycle
- Push-in connection
- Versatile and easily maintained
- Miniature size

Logic Processing

See page: 262



- Complete range
- Stand alone, stackable or combinable modules
- Very fast response time
- Flexible and highly maintainable system
- DIN rail mounting
- Ø 4mm connection

Airline Isolator

See page: 267



- In line installation
- High flow
- Internal supply for signal air
- Suitable as main shut-off or as power valve for cylinder and air motor
- Optional low-pressure hydraulic version

Two Hand Control Units

See page: 269



- Ergonomic design
- Robust polymer or metal enclosure
- Meets requirements for protection against accidental operation and tampering
- Metal enclosure features a wrist-rest bar which helps prevent illness due to repetitive actions
- Conforms to EN574 and EN954-1 requirements

Moduflex Valve System®

The Moduflex Valve® System redefines flexibility for pneumatic users. Whether configured from basic components or ordered as a pre-assembled and tested valve island, Moduflex flexibility is unmatched in the marketplace.



V Series



T Series



S Series



P Series

Innovative

The 6 patents awarded to the Moduflex valve system reflect that innovation is core to the Parker design process. Maintaining a clear understanding of our customer's expectations has defined the individuality of the Moduflex, and clearly differentiated it as a leading automation solution.

Adaptive

No other system can be adapted so simply once specified. Unique, captive fitting release system, quick release electrical connectors and single mechanical screw connection between manifolds offer the ultimate capability for late system design changes.

Multi-Functional

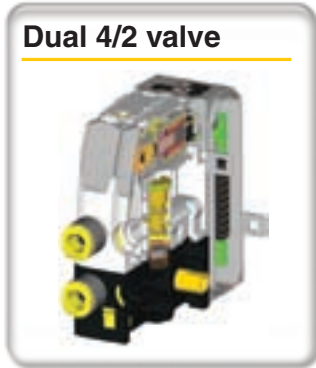
From stand-alone valves to fieldbus ready valve islands, from cylinder flow controls to vacuum generators with integrated blow-off, the Moduflex Valve System® meets the requirements of the whole automation spectrum.

Light-weight

An Asi compatible valve manifold with 8 electrical inputs and 8 pneumatic outputs weighs a mere 800grams, making the Moduflex Valve System® the perfect choice for end of arm tooling application.

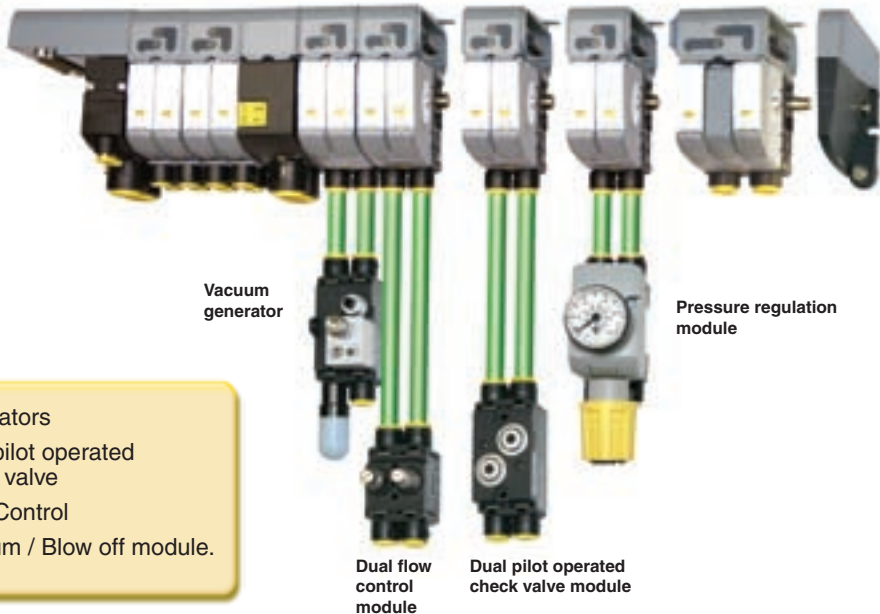
Moduflex Valve Technology

Two technology platforms enable the compact design and high performance of the Moduflex Valve System. The compact dual 4/2 and 3/2 valves utilize well proven Parker seal technology. The standard 4/2 valves adopt the long life super durable ceramic switching technology.



Moduflex Complete Control

With the introduction of the dual 4/2 size 1 valves, Moduflex now offers unrivaled ability of matching valves to exact flow requirements, ensuring cost and space are minimized. In addition, Moduflex Valve System® offers all the necessary control peripherals to provide a complete automation solution. Moduflex is the complete control package.



- Regulators
- Dual pilot operated check valve
- Flow Control
- Vacuum / Blow off module.

Operating information

Working pressure: -0.9 to 8 bar
 Pilot pressure : 3 to 8 bar*
 Working temperature -15 °C to +60 °C
 Protection Individual connectors IP67 NEMA4
 Protection Integrated connectors IP65
 Voltage: 24V DC

* 2 x 3/2 and 3/2 3.5 to 8 bar

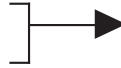
		Dual 4/2	Dual 3/2	3/2	4/2
Size 1	Qmax	333 l/min	415 l/min	415 l/min	510 l/min
	Qn	130 l/min	235 l/min	235 l/min	310 l/min
Size 2	Qmax	-	805 l/min	805 l/min	1340 l/min
	Qn	-	450 l/min	440 l/min	800 l/min

Ordering Options

Depending on the application requirements and production methods, Moduflex may be ordered as follows :

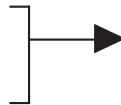
Basic Modules

These modules are supplied without connectors, the choice of plug-in connectors enables total flexibility in the field ;
 (Preferred ordering method for best price and delivery.)



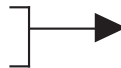
Complete Modules

Supplied complete with connectors, for use with valve islands or as stand-alone valves or peripheral modules ;
 Consult your local distributor or Parker location for assembly information, price and delivery.



Pre-assembled Valve Islands

Supplied fully assembled to specifications and complete with pneumatic and electrical connectors. Islands can be easily configured with the Moduflex Configurator Software.
 See technical catalogue CD.



Moduflex Island Configurator Software

*Available on CD within this catalog

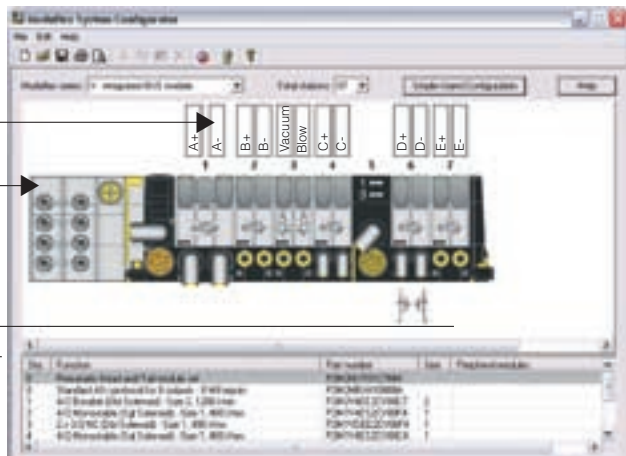
valve island modules identification

valve island graphic description with

valve module symbols, output connectors, pneumatic and electrical head module, etc.....

addition of peripheral modules

valve island composition with each module description and order code



V series – Fieldbus and multi-connector valve islands

Pages 132 - 135



T series – Simple valve islands

Page 136 - 137



S series – Stand alone valves

Page 138 - 139



P series – Peripheral control modules

Page 140



Valve island modules with integrated connections

When a high number of valves are necessary, valves may be configured with integrated electrical connectivity. These islands are then connected to the control PLC with a multi-connector cable or with a fieldbus connection.



Basic modules (without connectors) and corresponding clip-on pneumatic connectors

Size 1 Valve Modules

Description	Symbol	Weight (g)	Order code
4/2 Solenoid spring		94	P2M1V4ES2CV
4/2 Double solenoid		103	P2M1V4EE2CV
2 x 3/2 NC + NC with exhaust check valves		106	P2M1VDEE2CV
2 x 3/2 NO + NO with exhaust check valves		106	P2M1VCEE2CV
2 x 3/2 NC + NO with exhaust check valves		106	P2M1VEEE2CV
2 x 4/2 Solenoid spring with exhaust check valves		114	P2M1VJEE2CV
3/2 NC Solenoid spring with exhaust check valves		102	P2M1V3ES2CV
4/3 Centre exhaust = 2 x 3/2 NC + NC without exhaust check valve		106	P2M1VGEE2CV

P2M1V4ES2CV



CMD06-1

P2M1VJEE2CV



FMD04-1

P2M1VDEE2CV



FMD04-1

Size 1 connectors Tube OD *

Description	W. (g)	Order code
Straight	4mm	FMD04-1
	6mm	FMD06-1
Elbow	4mm	CMD04-1
	6mm	CMD06-1
Plug	3	PMDXX1
Muffler	5	MMDVA1
Clip-on double male union	3	HMDXX1

* Pack quantity : 10

Size 2 Valve Modules

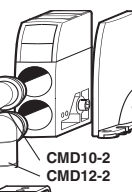
Description	Symbol	Weight (g)	Order code
4/2 Solenoid spring		100	P2M2V4ES2CV
4/2 Double solenoid		110	P2M2V4EE2CV
2 x 3/2 NC + NC with exhaust check valves		115	P2M2VDEE2CV
2 x 3/2 NO + NO with exhaust check valves		115	P2M2VCEE2CV
2 x 3/2 NC + NO with exhaust check valves		115	P2M2VEEE2CV
3/2 NC Solenoid spring with exhaust check valves		110	P2M2V3ES2CV
4/3 Centre exhaust = 2 x 3/2 NC + NC without exhaust check valve		115	P2M2VGEE2CV

P2M2V4EE2CV



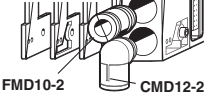
CMD10-2

P2M2HXT01



CMD10-2
CMD12-2

P2M2BXV0A



FMD10-2

CMD12-2

Size 2 connectors Tube OD *

Description	W. (g)	Order code
Straight	6mm	FMD06-2
	8mm	FMD08-2
	10mm	FMD10-2
	12mm	FMD12-2
Elbow	6mm	CMD06-2
	8mm	CMD08-2
	10mm	CMD10-2
	12mm	CMD12-2
Plug	5	PMDXX2
Muffler	3	MMDVA2
Clip-on double male union	8	HMDXX2

* Pack quantity : 10

Head & Tail sets and Intermediate supply exhaust modules

Valve Island Pneumatic head and tail module set	P2M2HXT01
Valve Island Intermediate supply module with a set of 4 configurations plates	P2M2BXV0A

Size 2 connectors should be specified with head and tail sets.

Indicates stocked product.

Order codes V Series - Complete modules (on order)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

P 2 M 1 V 4 E E 2 C V 0 0 F 6

Size option	
1	Size 1
2	Size 2

Series	
V	Valvetronic

Valve Function - Solenoid Versions	
4 E S	4/2 - Single solenoid
4 E E	4/2 - Double solenoid
J E E	2 x 4/2 - 2 x 1 solenoid
D E E	2 x 3/2 - Normally closed
C E E	2 x 3/2 - Normally open (4/3 PC)
B E E	2 x 3/2 - Normally closed + PO check (4/3 APB)
E E E	2 x 3/2 - 1 x Open, 1 x Closed
G E E	4/3 CE - 2 x 3/2 - Normally closed
3 E S	3/2 Single solenoid


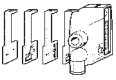
Pneumatic connectors		
Ports 2 & 4		
Size 1 modules		
F4	straight	4mm OD
C4	elbow	4mm OD
F6	straight	6mm OD
C6	elbow	6mm OD
Size 2 modules		
F6	straight	6mm OD
C6	elbow	6mm OD
F8	straight	8mm OD
C8	elbow	8mm OD
F0	straight	10mm OD
C0	elbow	10mm OD

For basic modules, leave digits 12 - 15, blank.

PC = Pressure Centre
APB = All Ports Blocked
CE = Centre Exhausted

Head/Tail & Intermediate Module Ordering Guide (on order)

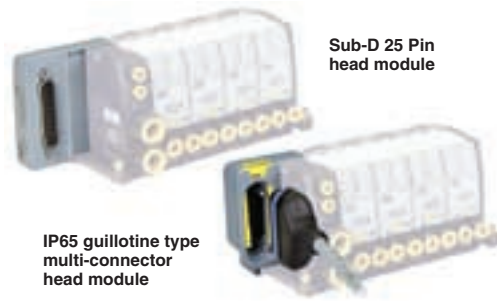
P 2 M 2 H X T 0 1 F 0 C 2

Island head or intermediate module function	
HXT01	Pneumatic head and tail set 
BXV0A	V series intermediate supply module with a set of 4 configuration plates 

Pressure port connector	
F6	straight 6mm OD
C6	elbow 6mm OD
F8	straight 8mm OD
C8	elbow 8mm OD
F0	straight 10mm OD
C0	elbow 10mm OD
F2	straight 12mm OD
C2	elbow 12mm OD
PP	plug
MM	muffler

Exhaust port connector	
F6	straight 6mm OD
C6	elbow 6mm OD
F8	straight 8mm OD
C8	elbow 8mm OD
F0	straight 10mm OD
C0	elbow 10mm OD
F2	straight 12mm OD
C2	elbow 12mm OD
PP	plug
MM	muffler

Electrical multi-connection head modules



Sub-D 25 Pin head module

IP65 guillotine type multi-connector head module

Sub D25 standard multi-connector head module		P2M2HEV0D
Sub D25 connector with flying leads - 3m cable		P8LMH25M3A
IP65 guillotine type multi-connector head module		P2M2HEV0A
Complementary connector with flying leads multi-cable	2 m. cable	P8LMH20M2A
	5 m. cable	P8LMH20M5A
	9 m. cable	P8LMH20M9A

Field bus connection head modules : to be chosen from next page.



AS-i protocol head modules

Standard AS-i protocol (up to 31 nodes) electrical head modules



Electrical module for **8 outputs** max.

- V series islands may have up to 8 solenoid pilots
- 2 nodes per module, 4 I / 4 O per node

Input connections	Order code
no input	P2M2HBVA10800
8 M8 inputs	P2M2HBVA10808A
4 inputs on 4 M12	P2M2HBVA10808B



Electrical module for **4 outputs** max.

- V series islands may have up to 8 solenoid pilots
- 1 node per module, 4 I / 4 O per node

No inputs	P2M2HBVA10400
4 inputs on 4 M12	P2M2HBVA10404B

AS-i version 2-1 protocol (up to 62 nodes) electrical head modules



Electrical module for **6 outputs** max.

- V series islands may have up to 6 solenoid pilots
- 2 nodes per module, 4 I / 3 O per node

none	P2M2HBVA20600
8 M8 Inputs	P2M2HBVA20608A
8 inputs on 4 M12	P2M2HBVA20608B

AS-i bus accessories

AS-i bus accessories	Length	Order code
M12 cable with jack for addressing	1 m	P8LS12JACK

Indicates stocked product.

Device bus electrical head modules

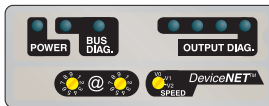
electrical module for 16 outputs max.
(V series islands may have up to 16 solenoid pilots)

PROFI BUS



Bus protocol	Order code
Profibus DP	P2M2HBVP11600

DeviceNet™



Bus protocol	Order code
DeviceNet	P2M2HBVD11600

INTERBUS-S



Bus protocol	Order code
Interbus S	P2M2HBVS11600

CANopen



Bus protocol	Order code
CANopen	P2M2HBVC11600

 Indicates stocked product.

**Valve island modules with individual connectors :
T series**

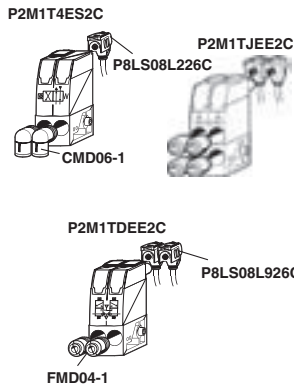
For simple systems, valve islands may be configured using individual valve wiring or air pilot connections.



Basic modules (without connectors) and corresponding clip-on electrical and pneumatic connectors

Size 1 Valve Modules

Description	Symbol	Weight (g)	Order code
4/2 Solenoid spring		68	P2M1T4ES2C
4/2 Double solenoid		77	P2M1T4EE2C
2 x 3/2 NC + NC with exhaust check valves		80	P2M1TDEE2C
2 x 3/2 NO + NO with exhaust check valves		80	P2M1TCEE2C
2 x 3/2 NC + NO with exhaust check valves		80	P2M1TEEE2C
2 x 4/2 Solenoid spring with exhaust check valves		88	P2M1TJEE2C
3/2 NC Solenoid spring with exhaust check valves		76	P2M1T3ES2C
4/3 Centre exhaust = 2 x 3/2 NC + NC without exhaust check valve		80	P2M1TGEE2C



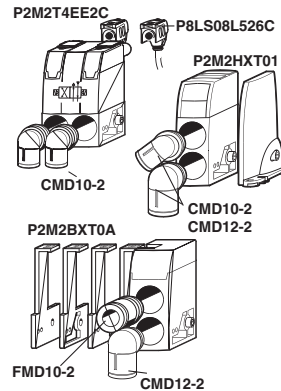
Size 1 connectors Tube OD *

Description	W. (g)	Order code
Straight	4mm	2 FMD04-1
	6mm	3 FMD06-1
Elbow	4mm	5 CMD04-1
	6mm	3 CMD06-1
Plug	3	PMDXX1
Muffler	5	MMDVA1
Clip-on double male union	3	HMDXX1

* Pack quantity : 10

Size 2 Valve Modules

Description	Symbol	Weight (g)	Order code
4/2 Solenoid spring		74	P2M2T4ES2C
4/2 Double solenoid		83	P2M2T4EE2C
2 x 3/2 NC + NC with exhaust check valves		94	P2M2TDEE2C
2 x 3/2 NO + NO with exhaust check valves		94	P2M2TCEE2C
2 x 3/2 NC + NO with exhaust check valves		94	P2M2TEEE2C
3/2 NC Solenoid spring with exhaust check valves		90	P2M2T3ES2C
4/3 Centre exhaust = 2 x 3/2 NC + NC without exhaust check valve		94	P2M2TGEE2C



Size 2 connectors Tube OD *

Description	Order code
Straight	6mm FMD06-2
	8mm FMD08-2
	10mm FMD10-2
	12mm FMD12-2
Elbow	6mm CMD06-2
	8mm CMD08-2
	10mm CMD10-2
	12mm CMD12-2
Plug	PMDXX2
Muffler	MMDVA2
Clip-on double male union	HMDXX2

* Pack quantity : 10

Head & Tail sets and Intermediate supply exhaust modules for T series

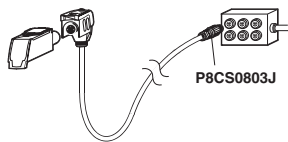
Valve Island Pneumatic head and tail module set	P2M2HXT01
Valve Island Intermediate supply module with a set of 4 configurations plates	P2M2BXT0A

Size 2 connectors should be specified with head and tail sets.

Indicates stocked product.

Electrical connectors

P8LS08L226C



Clip-on individual electrical connector, for each solenoid pilot, with LED, voltage surge protection and flying lead cable IP67 protected



2 m. cable	P8LS08L226C
5 m. cable	P8LS08L526C
9 m. cable	P8LS08L926C

Straight cable or thread connector, IP67 protected.



M8 cable quick connect	P8CS0803J
M12 cable quick connect	P8CS1204J

Complete modules T Series - Ordering guide

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

P 2 M 1 T 4 E E 2 C V 2 0 F 6

Size option

1	Size 1
2	Size 2

Series

T	Individual connectors
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Valve Function - Solenoid Versions

4 ES	4/2 - Single solenoid
4 EE	4/2 - Double solenoid
J EE	2 x 4/2 - 2 x 1 solenoid
D EE	2 x 3/2 - Normally closed
C EE	2 x 3/2 - Normally open (4/3 PC)
B EE	2 x 3/2 - Normally closed + PO check (4/3 APB)
E EE	2 x 3/2 - 1 x Open, 1 x Closed
G EE	4/3 CE - 2 x 3/2 - Normally closed
3 ES	3/2 Single solenoid

Valve Function - Air Pilot Versions *

4 PS	4/2 Single air pilot
4 PP	4/2 Double air pilot
J PP	2 x 4/2 - 2 x 1 air pilot
D PP	2 x 3/2 - Normally closed
C PP	2 x 3/2 - Normally open (4/3 PC)
B PP	2 x 3/2 - Normally closed + PO check (4/3 APB)
E PP	2 x 3/2 - 1 x Open, 1 x Closed
G PP	4/3 CE - 2 x 3/2 - Normally closed
3 PS	3/2 Single solenoid

Pneumatic connectors

Ports 2 & 4

Size 1 modules

F4	straight	4mm OD
C4	elbow	4mm OD
F6	straight	6mm OD
C6	elbow	6mm OD

Size 2 modules

F6	straight	6mm OD
C6	elbow	6mm OD
F8	straight	8mm OD
C8	elbow	8mm OD
F0	straight	10mm OD
C0	elbow	10mm OD

Electrical connector

0	No cable
2	2m cable
5	5m cable
9	9m cable

* For air pilot versions leave digits 9 - 15 blank. (Basic modules only)

PC = Pressure Centre
APB = All Ports Blocked
CE = Centre Exhausted

For basic modules, leave digits 11 - 15, blank.

Head/Tail & Intermediate Module Ordering Guide

P 2 M 2 H X T 0 1 F 0 C 2

Island head or intermediate module function

HXT01	Pneumatic head and tail set	
BXT0A	T series intermediate supply module with a set of 4 configuration plates	

Pressure port connector

F6	straight 6mm OD
C6	elbow 6mm OD
F8	straight 8mm OD
C8	elbow 8mm OD
F0	straight 10mm OD
C0	elbow 10mm OD
F2	straight 12mm OD
C2	elbow 12mm OD
PP	plug
MM	muffler

Exhaust port connector

F6	straight 6mm OD
C6	elbow 6mm OD
F8	straight 8mm OD
C8	elbow 8mm OD
F0	straight 10mm OD
C0	elbow 10mm OD
F2	straight 12mm OD
C2	elbow 12mm OD
PP	plug
MM	muffler

Indicates stocked product.

Stand-Alone Valve Modules : S series

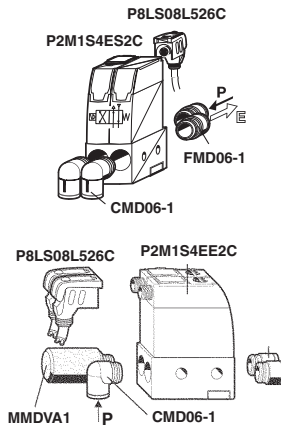
For control of isolated cylinders, a stand-alone valve module is ideal. Pull-out mounting feet are integrated into the base for simple installation.



Basic modules (without connectors) and corresponding clip-on electrical and pneumatic connectors

Size 1 Valve Modules

Description	Symbol	W (g)	Order code
4/2 Solenoid spring		72	P2M1S4ES2C
4/2 Double solenoid		87	P2M1S4EE2C
2 x 3/2 NC + NC with exhaust check valves		85	P2M1SDEE2C
2 x 3/2 NO + NO with exhaust check valves		85	P2M1SCEE2C
2 x 3/2 NC + NO with exhaust check valves		85	P2M1SEEE2C
3/2 NC Solenoid spring with exhaust check valves		85	P2M1S3ES2C
4/3 Centre exhaust = 2 x 3/2 NC + NC without exhaust check valve		85	P2M1SGEE2C



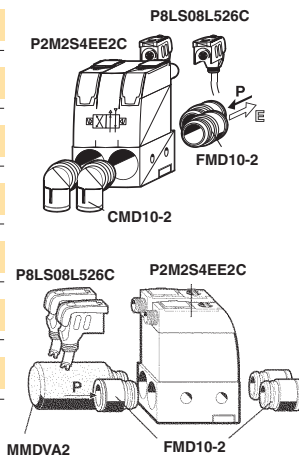
Size 1 connectors Tube OD *

Description	W. (g)	Order code
Straight	4mm	FMD04-1
	6mm	FMD06-1
Elbow	4mm	CMD04-1
	6mm	CMD06-1
Plug	3	PMDXX1
Muffer	5	MMDVA1
Clip-on double male union	3	HMDXX1

* Pack quantity : 10

Size 2 valve Modules

Description	Symbol	W (g)	Order code
4/2 Solenoid spring		72	P2M2S4ES2C
4/2 Double solenoid		87	P2M2S4EE2C
2 x 3/2 NC + NC with exhaust check valves		85	P2M2SDEE2C
2 x 3/2 NO + NO with exhaust check valves		85	P2M2SCEE2C
2 x 3/2 NC + NO with exhaust check valves		85	P2M2SEEE2C
3/2 NC Solenoid spring with exhaust check valves		85	P2M2S3ES2C
4/3 Centre exhaust = 2 x 3/2 NC + NC without exhaust check valve		85	P2M2SGEE2C



Size 2 connectors Tube OD *

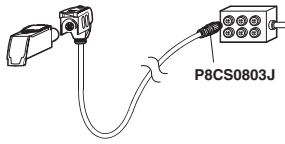
Description	W. (g)	Order code
Straight	6mm	FMD06-2
	8mm	FMD08-2
	10mm	FMD10-2
	12mm	FMD12-2
Elbow	6mm	CMD06-2
	8mm	CMD08-2
	10mm	CMD10-2
	12mm	CMD12-2
Plug	5	PMDXX2
Muffer	3	MMDVA2
Clip-on double male union	8	HMDXX2

* Pack quantity : 10

Indicates stocked product.

Electrical connectors

P8LS08L226C



Clip-on individual electrical connector, for each solenoid pilot, with LED, voltage surge protection and flying lead cable IP67 protected

Straight cable or thread connector, IP67 protected.



2 m. cable	P8LS08L226C
5 m. cable	P8LS08L526C
9 m. cable	P8LS08L926C
M8 cable quick connect	P8CS0803J
M12 cable quick connect	P8CS1204J

Order codes S Series - Complete modules (on order)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

P 2 M 1 S 4 E E 2 C V 5 A F 6

Size option

1	Size 1
2	Size 2

Series

S	Stand alone modules
---	---------------------

Electrical connector

0	No cable
2	2m cable
5	5m cable
9	9m cable

Valve Function - Solenoid Versions

4ES	4/2 - Single solenoid
4EE	4/2 - Double solenoid
DEE	2 x 3/2 - Normally closed
CEE	2 x 3/2 - Normally open (4/3 PC)
BEE	2 x 3/2 - Normally closed + PO check (4/3 APB)
EEE	2 x 3/2 - 1 x Open, 1 x Closed
GEE	4/3 CE - 2 x 3/2 - Normally closed
3ES	3/2 Single solenoid

Valve Function - Air Pilot Versions *

4PS	4/2 Single air pilot
4PP	4/2 Double air pilot
DPP	2 x 3/2 - Normally closed
CPP	2 x 3/2 - Normally open (4/3 PC)
BPP	2 x 3/2 - Normally closed + PO check (4/3 APB)
EPP	2 x 3/2 - 1 x Open, 1 x Closed
GPP	4/3 CE - 2 x 3/2 - Normally closed
3PS	3/2 Single solenoid

Pneumatic connectors

Ports 1 & 3		Ports 2 & 4		Tube OD	
A	Straight & straight	F	Straight & straight	Size 1 modules	
B	Elbow & elbow	C	Elbow & elbow	4	4mm OD
C	Straight & muffler	0	No connector for plug-in P module	6	6mm OD
D	Elbow & muffler			Size 2 modules	
				6	6mm OD
				8	8mm OD
				0	10mm OD

* For air pilot versions leave digits 9 - 15 blank. (Basic modules only)





For basic modules, leave digits 11 - 15, blank.

PC = Pressure Centre
 APB = All Ports Blocked
 CE = Centre Exhausted

Indicates stocked product.

Basic peripheral modules (without connectors) and corresponding clip-on pneumatic connectors

Size 1 Peripheral Modules

Description	W. (g)	Order code
Dual flow control 	50	P2M1PXFA
Dual P.O. check valve 	50	P2M1PXCA
Pressure regulator 	0-2 bar	135 P2M1PXSR
	0-4 bar	135 P2M1PXSM
	0-8 bar	135 P2M1PXSG
With pressure gauge		
Vacuum generator 	90% Vac	30 P2M1PXVA

Vacuum accessories

Sensor	10	MPS-V6T-PC
	70	MPS-V6T-PG
Silencer	5	P6M-PAB1

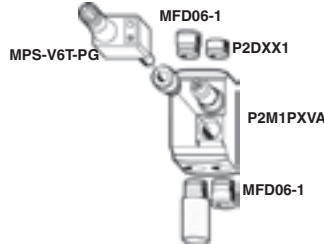
P2M1PXFA







P2M1PXCA



P2M1PXSM






Size 1 connectors Tube OD *

Description	W. (g)	Order code
Straight 	4mm	2 FMD04-1
	6mm	3 FMD06-1
Elbow 	4mm	5 CMD04-1
	6mm	3 CMD06-1
Plug 	3	PMDXX1
Muffler 	5	MMDVA1

* Pack quantity : 10

Size 2 Peripheral Modules

Description	W. (g)	Order code
Dual flow control 	75	P2M2PXFA
Dual P.O. check valve 	70	P2M2PXCA
Pressure regulator 	0-2 bar	165 P2M2PXSR
	0-4 bar	165 P2M2PXSM
	0-8 bar	165 P2M2PXSG
With pressure gauge		




P2M2PXFA



P2M2PXSM



Size 2 connectors Tube OD *

Description	W. (g)	Order code
Straight 	6mm	3 FMD06-2
	8mm	4 FMD08-2
	10mm	5 FMD10-2
	12mm	6 FMD12-2
Elbow 	6mm	5 CMD06-2
	8mm	6 CMD08-2
	10mm	7 CMD10-2
	12mm	8 CMD12-2
Plug 	5	PMDXX2


* Pack quantity : 10

Clip-on pressure gauges

Clip-on pressure gauge for pressure regulator modules, size 1 or size 2. Pressure gauge is equipped with a damper to protect it from pressure oscillations.



	W. (g)	Order code
0 to 2 bar	30	P2M1K0GT
0 to 4 bar	30	P2M1K0GL
0 to 8 bar	30	P2M1K0GN

 Indicates stocked product.

1 - Multi-connector or sub-D 25 valve island

Multi-connector
or sub-D 25
electrical head module
width : 15 mm

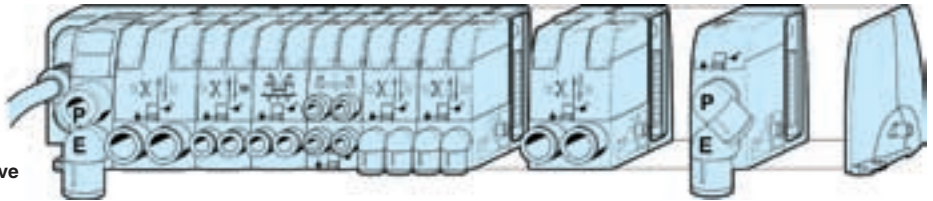
Head and tail
pneumatic module set
width : 48 mm

Modules
size 1
width : 25 mm

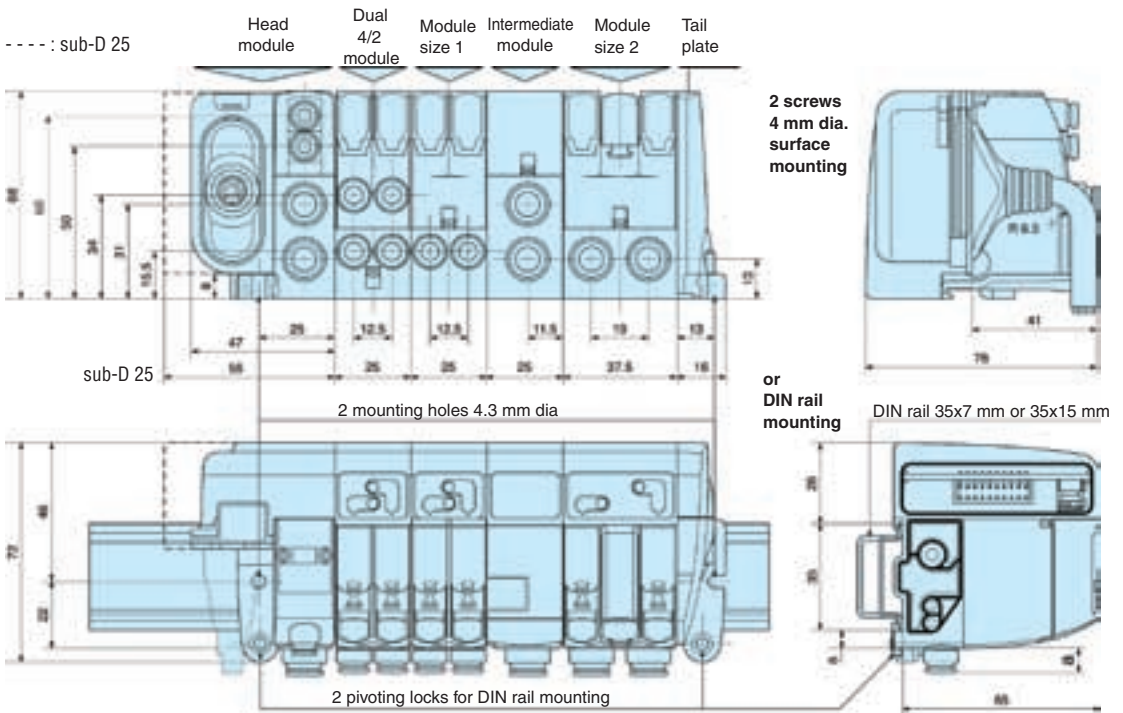
Modules
size 2
width : 37.5 mm

Intermediate
module
width : 25 mm

Island total width
depending on valve
composition



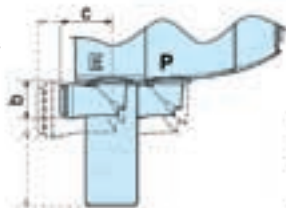
--- : sub-D 25



Special case : 4/3 closed centre function within island version :
Add the dimensions of the dual P.O. check valve module plugged
into the island.

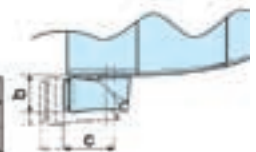
Island head and intermediate modules

	a	b	c
6 mm tube OD	8	13	16
8 mm tube OD	9	16	19
10 mm tube OD	13	18	22
12 mm tube OD	13	19	25
muffler		40	



Island valves modules

	OD tube	a	b	c
Size 1 modules	4 mm	8	10	12
	6 mm	8	13	16
Size 2 modules	8 mm	9	16	19
	10 mm	13	18	22



2 - Field bus connected islands

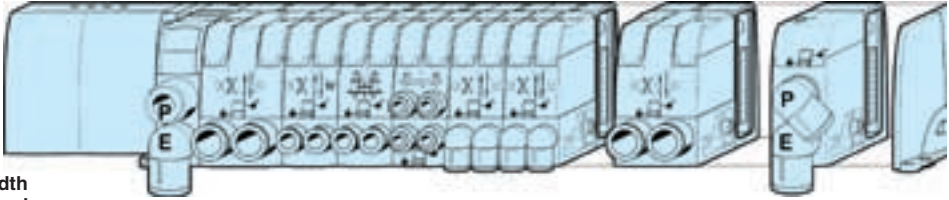
Electrical field bus head module width : 62 mm

Head and tail pneumatic module set width : 48 mm

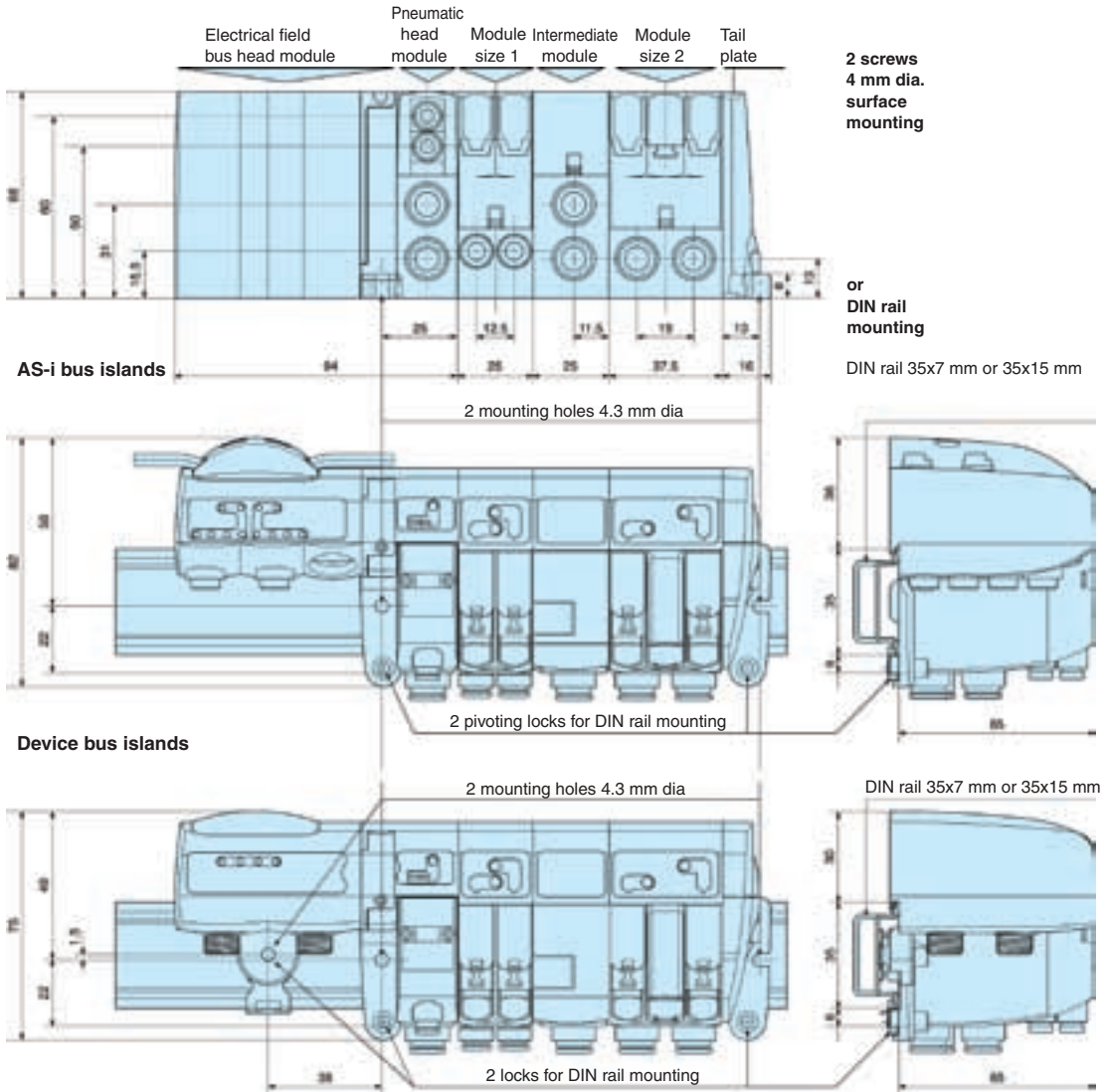
Modules size 1 width : 25 mm

Modules size 2 width : 37.5 mm

Intermediate module width : 25 mm

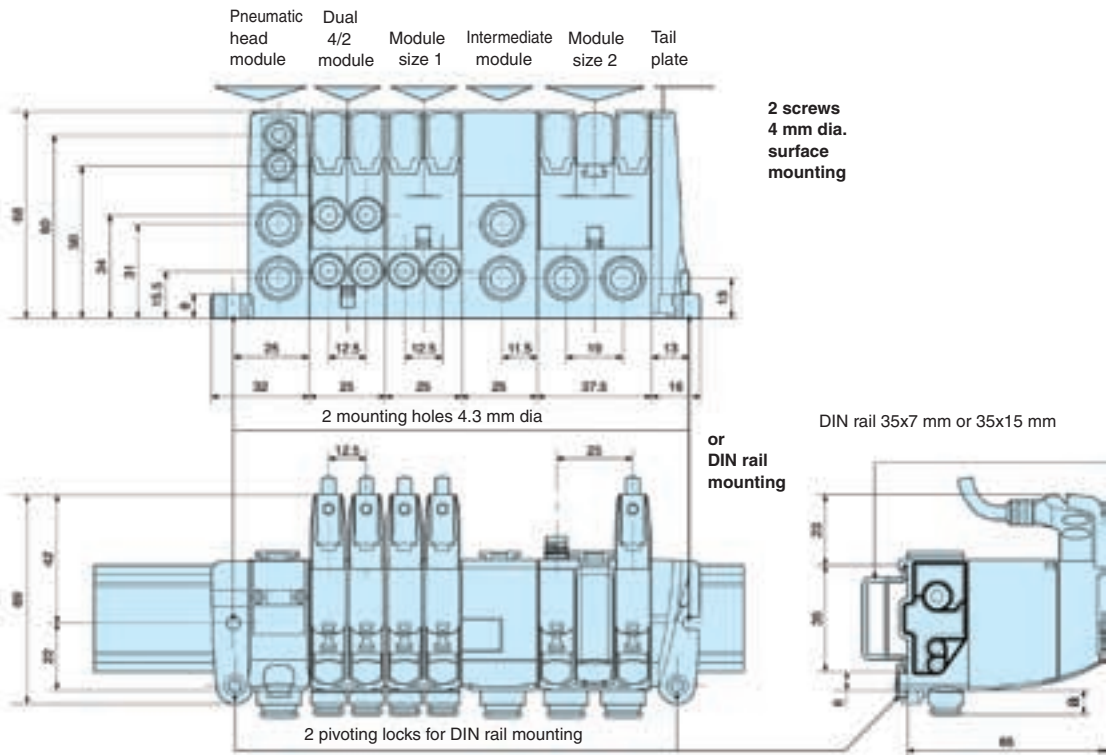
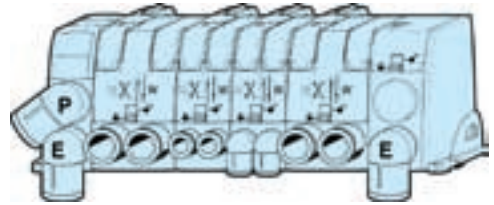
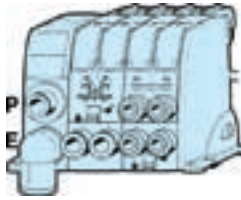


Island total width depending on valve composition



Island total width depending on valve composition

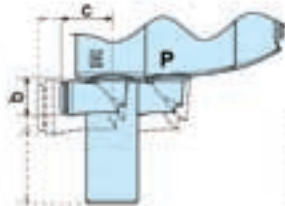
Pneumatic head and tail module width ⇒	48 mm	Modules size 1 25 mm	Modules size 2 37.5 mm	Intermediate module 25 mm
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Special case : 4/3 closed centre function within island version :
Add the dimensions of the dual P.O. check valve module plugged into the island.

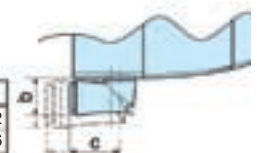
Island head and intermediate modules

	a	b	c
6 mm tube OD	8	13	16
8 mm tube OD	9	16	19
10 mm tube OD	13	18	22
12 mm tube OD	13	19	25
muffler		40	



Island valves modules

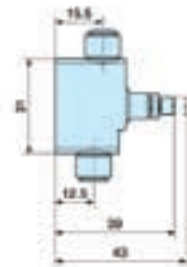
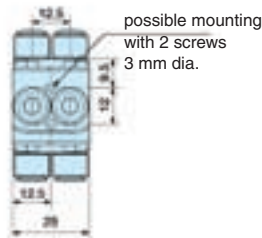
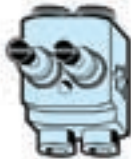
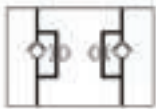
	OD tube	a	b	c
Size 1 modules	4 mm	8	10	12
	6 mm	8	13	16
Size 2 modules	8 mm	9	16	19
	10 mm	13	18	22



Reminder : peripheral modules may either be plugged in the valve output ports or mounted in line separate from the valve



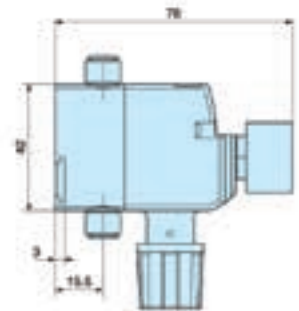
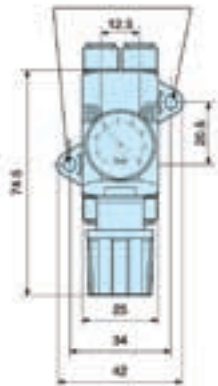
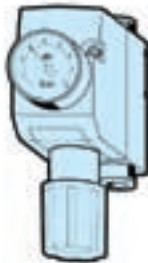
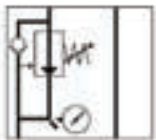
Dual flow control module size 1



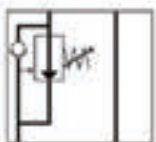
Pressure regulation module size 1

mounting with 2 screws 4 mm dia. on retractable brackets

- with gauge

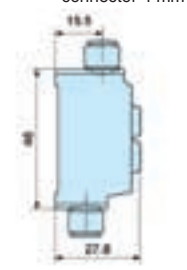
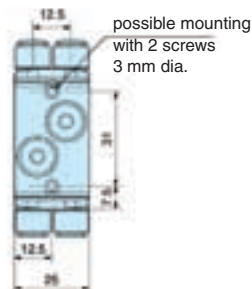
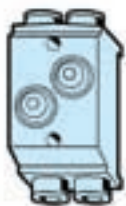
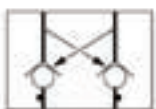


- without gauge

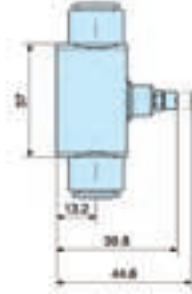
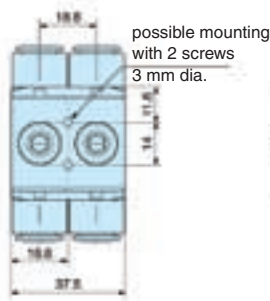
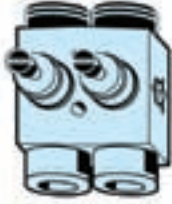
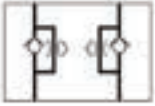


swivel elbow push-in connector 4 mm OD tube

Dual P.O. check valve module size 1

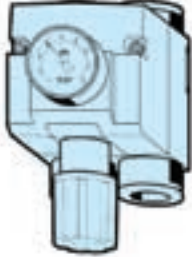
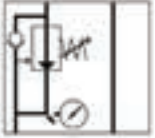


Dual flow control module size 2

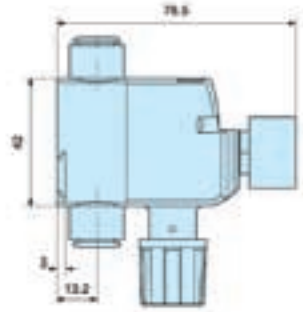
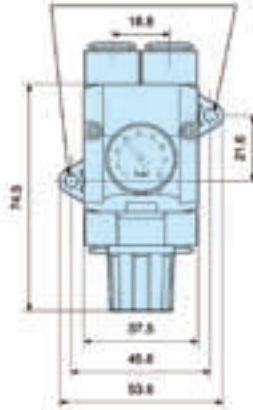


Pressure regulation module size 2

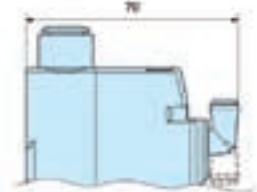
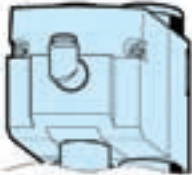
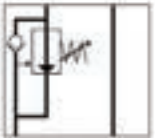
- with gauge



mounting with 2 screws 4 mm dia.
on retractable brackets

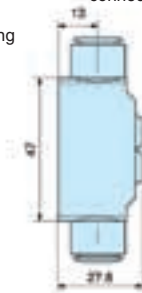
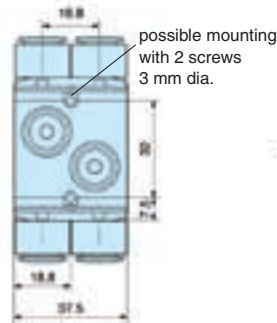
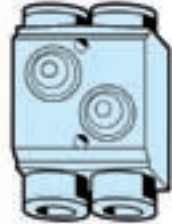


- without gauge



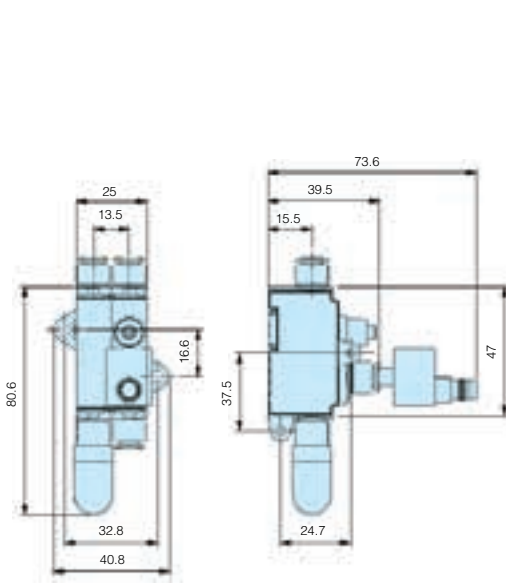
swivel elbow push-in
connector 4 mm OD tube

Dual P.O. check valve module size 2

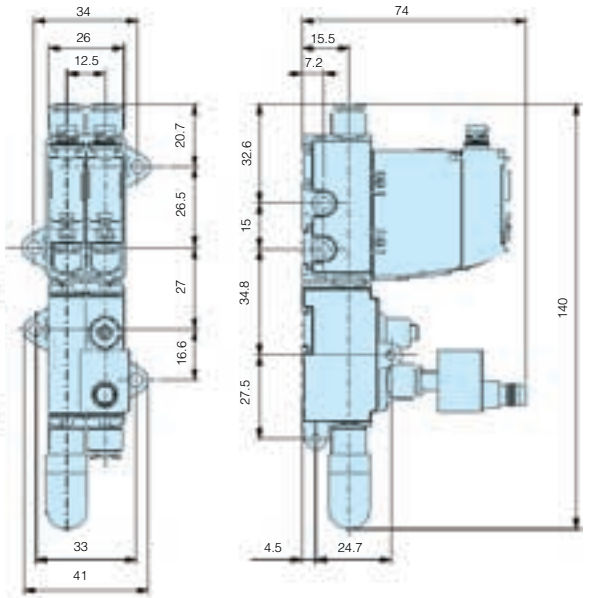


Vacuum generator module

In-line



With Moduflex valve



High speed poppet type solenoid valves with individual electrical connections. Light weight plastic bodies with DIN rail manifold. Ideal for cabinet installations.

- High speed poppet valve
- Push-in connection
- Built-in terminal block
- Pneumatic output indicator
- DIN rail mounting

Poppet valve, not suitable for use with Soft or Slow start Valves. When pressure is applied, the double solenoid interface takes a pre-determined position (non activated). In the absence of electrical signal, output 2 (yellow indicator) is activated, output 4 (red indicator) is non activated. Double solenoid version is delivered as standard with Non locking flush override.





Operating information

Working pressure;	
3/2 and 4/2:	3-8 bar
Low pressure interface 3/2:	1-8 bar
Flow (Qmax):	200 l/min
Working temperature	-15 °C to +60 °C
For technical information see CD	



Electro-Pneumatic modules 3/2

With solenoid valve, output with Ø4 mm Push-in connection
Visual indication of pneumatic output (NC) red : (NO) yellow
Spring return manual override. 24V DC

Symbol	Order code
	PS1-E21102B
	PS1-E22102B




Electro-Pneumatic modules 4/2

With solenoid valve, two outputs with Ø 4 mm Push-in connections
Visual indication of pneumatic output (NC) red and (NO) yellow
Spring return manual override. 24V DC

Symbol	Order code
	PS1-E28102B
	PS1-E29102B

Head and tail sets - intermediate supply modules

For 3/2 and 4/2 interface modules

	Description	Pneumatic connection	Characteristics	Order code
	Set for single air supply connection	Push-in Ø 6 mm G1/8	1 electrical common terminal 1 main air supply port 1 exhaust port	PS1-E101 PS1-E1018
	Set for double air supply connection	Push-in Ø 6 mm G1/8	1 electrical common terminal 2 main air supply ports 2 exhaust ports	PS1-E102 PS1-E1028
	Intermediate air supply module	Threaded G1/8 <i>(see description below)*</i>	1 air supply port 1 exhaust port	PS1-E1038

Incorporating an intermediate supply module into a group of electro-pneumatic modules gives the following options:

Air supply connection

- Additional G1/8 port to supplement the air supply to the manifold
- Blank the common air supply, enabling different pressures to be supplied to groups of modules within the manifold

Exhaust connection





- Additional exhaust flow through the G1/8 port
- Blank the common exhaust, enabling separation of exhaust from module groups

* The intermediate supply module is supplied with 4 interchangeable connectors to enable the above supply options to be achieved

 Indicates stocked product.

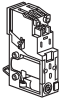

Electro-Pneumatic modules 3/2

Modules without solenoid valve*
3 to 8 bar version

Symbol	Connection	Actuator	Return	Order code
	Push-in Ø4 mm	Solenoid	Spring	PS1-E111
	Visual indication of pneumatic output (NC) red			
	Push-in Ø6 mm	Solenoid	Spring	PS1-E116
	Visual indication of pneumatic output (NC) red			
	Push-in Ø4 mm	Solenoid	Spring	PS1-E121
	Visual indication of pneumatic output (NO) yellow			
	Push-in Ø6 mm	Solenoid	Spring	PS1-E126
	Visual indication of pneumatic output (NO) yellow			

Electro-Pneumatic modules 3/2

Modules without solenoid valve* - 1 to 8 bar version

Symbol	Connection	Actuator	Return	Order code
	Push-in Ø4 mm	Solenoid	Spring	PS1-E311
	Visual indication of pneumatic output (NC) red			
	Push-in Ø6 mm	Solenoid	Spring	PS1-E316
	Visual indication of pneumatic output (NC) red			

* To obtain a complete Electro-Pneumatic interface module, order:
1 module without solenoid valve (e.g.: PS1-E121) + 1 solenoid valve (e.g.: PS1-E2302B)

Solenoids 15 mm 1,2 W / 1,6 VA (8mm pin spacing)



Spring return manual override





Voltage	Order code
24 VDC	P2E-KS32C1
48 VDC	P2E-KS32D1
24 V 50/60Hz	P2E-KS31C1
48 V 50/60Hz	P2E-KS34D1
115 V 50Hz, 120 V 60Hz	P2E-KS31F1
230 V 50Hz, 240 V 60Hz	P2E-KS31J1
Indexing manual override	
Voltage	Order code
24 VDC	P2E-KS32C2
48 VDC	P2E-KS32D2
24 V 50/60Hz	P2E-KS31C2
48 V 50/60Hz	P2E-KS34D2
115 V 50Hz, 120 V 60Hz	P2E-KS31F2
230 V 50Hz, 240 V 60Hz	P2E-KS31J2

 Indicates stocked product.

Electro-Pneumatic modules 4/2

Modules without solenoid valve*


Visual indication of pneumatic output (NC) red and (NO) yellow

Symbol	Connection	Actuator	Return	Order code
	Push-in Ø4 mm	Solenoid	Solenoid	PS1-E191
	Push-in Ø6 mm	Solenoid	Solenoid	PS1-E196
	Push-in Ø4 mm	Solenoid	Spring	PS1-E181
	Push-in Ø6 mm	Solenoid	Spring	PS1-E186

* To obtain a complete Electro-Pneumatic interface module, order:
1 module without solenoid valve (e.g.: PS1-E191) + 2 solenoid valves (e.g.: PS1-E2302B)



Suppressor and LED indicators

For mounting between the solenoid valve and the cable plug.

Symbol	Description	Voltage	Order code
	LED Indicator	24 V AC/DC	P8V-CR26C
		48 V AC/DC	P8V-CR26D
		115 V 50 Hz 120 V 60 Hz	P8V-CR24F
		230 V~50 Hz 240 V~60 Hz	P8V-CR24J

Note: The Interface modules have been re-designed to accept the 9,4mm spacing and the 8mm spacing versions of the suppressor and LED indicators listed above. If you are purchasing a suppressor for maintenance on an Interface module purchased before June 2004, then refer to Interface Technical leaflet supplied with this catalogue.

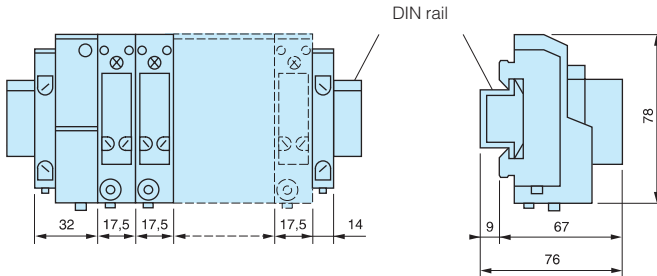
Pressure switches

			Order code
	1 changeover contact 5 A/250 V Pneu. Ø 4 mm	Fixed operating threshold < 1,3 bar	PS1-P1081
	1 changeover contact 5 A/250 V Pneu. Ø 4 mm	Adjustable operating threshold 2 to 5 bar	PS1-P1091

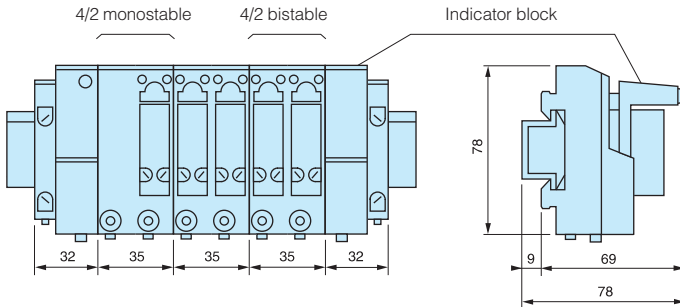
Note: The Interface modules have been re-designed to accept the previous 9,4mm spacing solenoids and the new 8mm spacing solenoids listed above. If you are purchasing a solenoid for maintenance on an Interface module purchased before June 2004, then refer to Interface Technical leaflet supplied with this catalogue.

Dimensions, PS1 valve Series

Electropneumatic interface modules 3/2 PS1-E21102• with PS1-E101 head and tail units



Electropneumatic interface modules 4/2 PS1-E28• and PS1-E29 with PS1-E102 head and tail units



Stacking high flow valves with air pilot or solenoid actuation. Lightweight plastic bodies feature push-in or threaded connections. Stacking valves feature modular inlet and exhaust facility.



- High flow, compact size
- Push-in or threaded connection
- DIN rail or block mounting
- Light weight construction

Operating information

Working pressure;			
Pneumatically operated:		2-10 bar	
Electrically operated, bistable:		2-10 bar	
Electrically operated, monostable:		3-10 bar	
Working temperature		-15 °C to +60 °C	
	PVL-A	PVL-B	PVL-C
Flow (Qmax):	270 l/min	900 l/min	1800 l/min
Flow Qn:	170 l/min	540 l/min	1100 l/min
Flow measured with valve stacked in island.			

Pneumatically actuated 5/2 valves - Size M5

Symbol	Connect	Order code
	Ø4 mm	PVL-A122104
	M5	PVL-A122115
	Ø4 mm	PVL-A121104
	M5	PVL-A121115

Electrically/Pneumatically actuated 5/2 valves size G1/8*

Symbol	Connect	Order code
	Ø6 mm	PVL-B122606
	G1/8	PVL-B122618
	Ø6 mm	PVL-B121606
	G1/8	PVL-B121618

Electrically/Pneumatically actuated 5/2 valves size G1/4*

Symbol	Connect	Order code
	Ø8 mm	PVL-C122608
	G1/4	PVL-C122619
	Ø8 mm	PVL-C121608
	G1/4	PVL-C121619

* For solenoids and pilot connectors, see next page

Electrically/Pneumatically actuated 2 x 3/2 valves

Symbol	Connect	Order code
	Ø6 mm	PVL-B125606

Wiring and connecting accessories for PVL-A

	Order code
Connector only (sold in pack of 10 pcs)	PES-D10
Connector with 5 m cable	PES-D101

Indicates stocked product.

Electrically actuated 5/2 valves - Size M5

Complete with 24V DC miniature solenoid and connector with 2m cable.

Symbol	Connect	Order code
	Ø4 mm	PVL-A122304B40
	M5	PVL-A122315B40
	Ø4 mm	PVL-A121304B50
	M5	PVL-A121315B50

Electrically/Pneumatically actuated 5/3 valves size G1/8*

Symbol	Connect	Order code
	Ø6 mm	PVL-B127606
	G1/8	PVL-B127618
	Ø6 mm	PVL-B128606
	G1/8	PVL-B128618

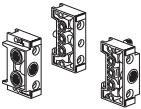

Electrically/Pneumatically actuated 5/3 valves size G1/4*

Symbol	Connect	Order code
	Ø8 mm	PVL-C127608
	G1/4	PVL-C127619
	Ø8 mm	PVL-C128608
	G1/4	PVL-C128619

* For solenoids and pilot connectors, see next page

Head and tail sets




For stacking power valves 5/2, sizes M5, G1/8 and G1/4

	Type of mounting	Description	Valve size	Port size	Order code
	DIN rail mounting	Single air supply head and tail set	M5 1/8" 1/4"	G1/8 G1/4 G3/8	PVL-A1718 PVL-B1719 PVL-C1713
		Dual air supply head and tail set	M5 1/8" 1/4"	G1/4 G1/4 G3/8	PVL-A1728 PVL-B1729 PVL-C1723
		Surface mounting	Single air supply head and tail set	1/8" 1/4"	G1/8 G1/4
	Surface mounting	Double air supply head and tail set	1/8" 1/4"	G1/8 G1/4	PVL-B1828 PVL-C1829

Solenoids 15mm NC Standard flow DIN 1.2W/1.6VA



Voltage	Order code Override flush non locking	Order code Override flush locking
24 VDC	P2E-KV32C1	P2E-KV32C2
48 VDC	P2E-KV32D1	
24 VAC 50Hz	P2E-KV31C1	P2E-KV31C2
48 VAC 50/60Hz	P2E-KV34D1	P2E-KV34D2
115 VAC 50Hz/ 120 VAC 60Hz	P2E-KV31F1	P2E-KV31F2
230 VAC 50Hz/ 240 VAC 60Hz	P2E-KV31J1	P2E-KV31J2

Cable plugs 15 mm (8 mm pin spacing) IP 65


Description	Order code
 Large headed screw for inaccessible or recess position Standard to be wired universal To be wired LED+protection 24 VDC	P8C-C P8C-C26C
 With standard screw Standard to be wired universal To be wired LED+protection 24 VDC	P8C-D P8C-D26C
 With cable and standard screw Standard with 2 m cable Standard with 5 m cable LED+protection 24 VAC/DC, 2 m LED+protection 24 VAC/DC, 5 m	P8L-C2 P8L-C5 P8L-C226C P8L-C526C

Suppressor and LED indicators



For mounting between the solenoid valve and the cable plug.


Symbol	Description	Voltage	Order code
	LED Indicator	24 V AC/DC	P8V-CR26C
		48 V AC/DC	P8V-CR26D
		115 V 50 Hz 120 V 60 Hz	P8V-CR24F
		230 V~50 Hz 240 V~60 Hz	P8V-CR24J

Air Pilot Connectors for PVL - B and C

Mounting	Type of connection	Order code
	Mounts on the same interface as the 1 W / 1,2 VA solenoid actuator	PVA-P111 PVA-P115
	Push-in Ø4 mm Threaded M5	

Components for stacking two sizes of valve

	Type of mounting	Description	Valve size	Order code
Components for stacking 2 sizes: "transfer/take-off" module and corresponding head and tail set	DIN rail	Kit for stacking power valves : - one "transfer/take-off" module - Head and tail set with one in each size.	1/8" and 1/4"	PVU-LCB119
				
Components for inlet/exhaust common gallery sealing		Kit for sealing the commons: - 3 common blanking plugs - 2 drilled and threaded rods - 2 screws for extended tie rods	M5 1/8" 1/4"	PVL-A1901 PVL-B1901 PVL-C1901
				

 Indicates stocked product.

Dimensions, PVL valve Series

All dimensions in mm unless otherwise stated

M5 stacking power valves with pneumatic or electrical piloting

Electrical piloting with 0,9 W solenoid actuator

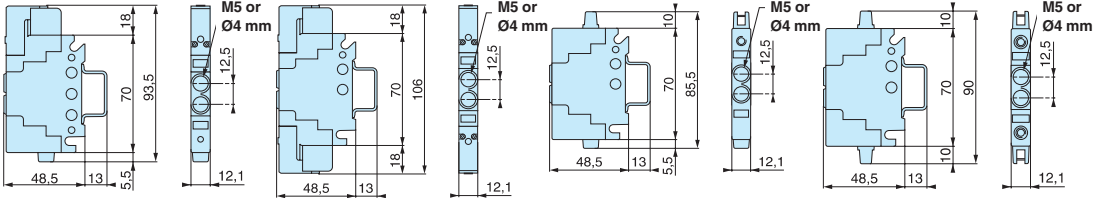
Monostable PVL-A1213**

Bistable PVL-A1223*

Pneumatic piloting

Monostable PVL-A1211**

Bistable PVL-A1221**

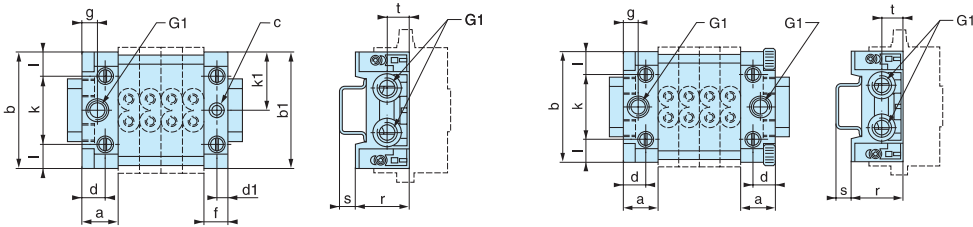


Head and tail sets

- Mounting on DIN rail

Single air supply PVL-A1718

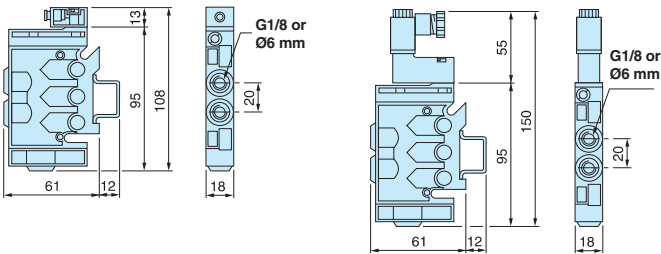
Dual air supply PVL-A1728



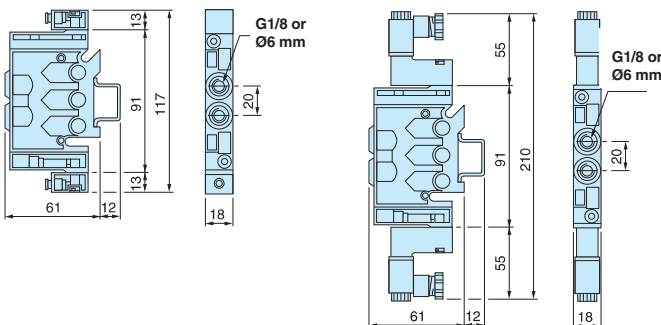
Thread size	a	b	b1	c	d	d1	f	g	G1	k	k1	l	r	s	t
M5	20	65	65	4,2	12,9	5,9	13	8,5	1/8"	38	38	13,5	30	8,8	12,5

Stacking power valves 1/8" with pneumatic or electrical piloting

Monostable PVL-B1216**, PVL-B1236**

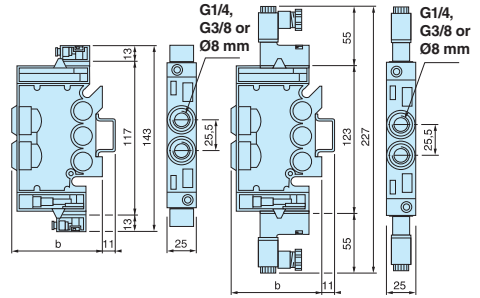
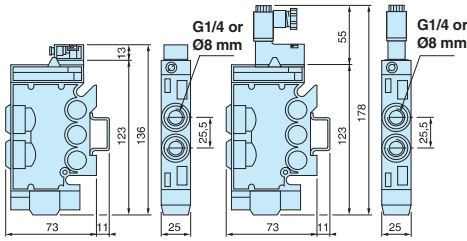


Bistable PVL-B1226**



Stacking power valves 1/4" with pneumatic or electrical control

With 1 W solenoid actuator and suitable pneumatic connector
 Monostable PVL-C1216**, PVL-C1236**

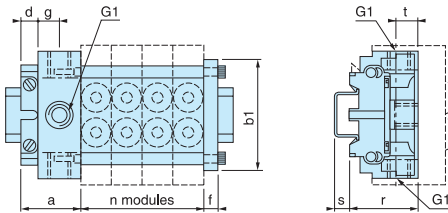


	G1/4	G3/8
b	73	77

Head and tail sets

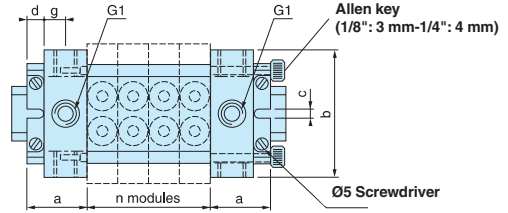
Single air supply

PVL-B1719, PVL-C1713, mounting on DIN rail



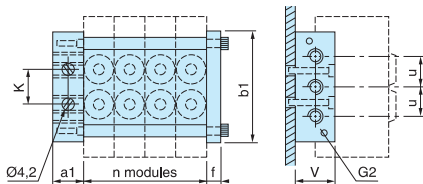
Dual air supply

PVL-B1729, PVL-C1723, mounting on DIN rail



Single air supply

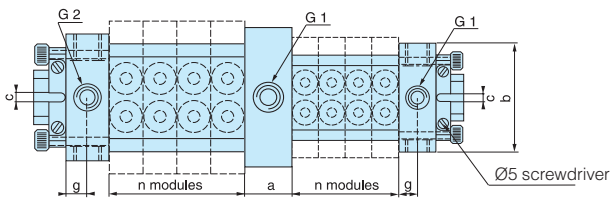
PVL-B1818, PVL-C1819, "stack mounting"



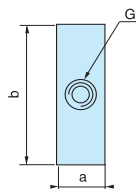
	a	a1	b	b1	c	d	f	g	G1	G2	k	r	s	t	u	v
1/8"	38	16	83	70	4,2	10	8	12	1/4"	1/8"	17,3	44	9	11	16	25
1/4"	38	20	108	100	4,2	10	8	12	3/8"	1/4"	63,5	55	9	13	20	30

"Transfer / take-off" module, intermediate supply module

For combination of sizes 1/4" - 1/8" - PVU-LCB119

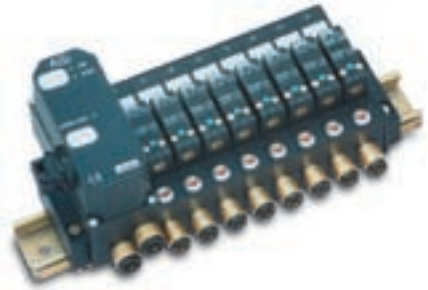


PVUL-BB118 - PVU-LCC119



	a	b	G
1/8"	18	75	1/8
1/4"	25	100	1/4









Miniature solenoid valves with modular pneumatic and electrical inputs. Lightweight plastic bodies with DIN rail manifold mounting facility. Ideal for cabinet installations.



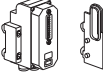

- 3/2 and 4/2 module poppet valve
- Push-in connection
- Electrical connection by Cable gland, Sub D25 or industrial connector
- Visual indication by LED with built in surge suppression
- Modular system

Operating information	
Working Pressure	3 to 8 bar
Working temperature	-15 °C to +60 °C (Bus modules: 0 °C to 40 °C)
Flow, Qmax =	200 l/min Qn = 100 l/min
Standard voltage	24 VDC
Protection level	IP65
For technical information see CD	


Valve slices including solenoids

Type	Actuator	Return	Push-in fittings mm	LED indicator and noise suppressor	Voltage	Order code	
		Solenoid 3/2 NC	Spring	Ø4	Yes	24 VDC	P2S-EW344ES2CR
				Ø6	Yes	24 VDC	P2S-EW346ES2CR
		Solenoid 3/2 NO	Spring	Ø4	Yes	24 VDC	P2S-EW144ES2CR
				Ø6	Yes	24 VDC	P2S-EW146ES2CR
		Solenoid 4/2	Spring	Ø4	Yes	24 VDC	P2S-EW444ES2CR
				Ø6	Yes	24 VDC	P2S-EW446ES2CR
		Solenoid 4/2	Solenoid	Ø4	Yes	24 VDC	P2S-EW444EE2CQ
				Ø6	Yes	24 VDC	P2S-EW446EE2CQ

Head and tail sets, intermediate accessories

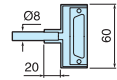
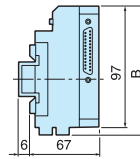
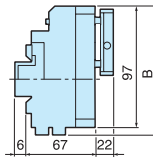
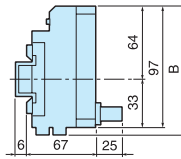
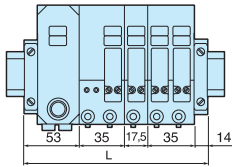
	Electrical connection	Push-in fitting, mm	Order code
	Sub D25 on the top	Ø8	P2S-EA148D25AT
	Intermediate air supply module	Ø6	P2S-EA246

For connecting leads refer to page 158.

 Indicates stocked product.

Dimensions, Valvetronic Interface 2000

With Cable gland or SubD25 Connection Island

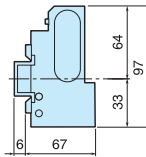


$L = 67 + (m \times 17,5) + (n \times 35)$
 m = number of 3/2 valves
 n = number of 4/2 valves

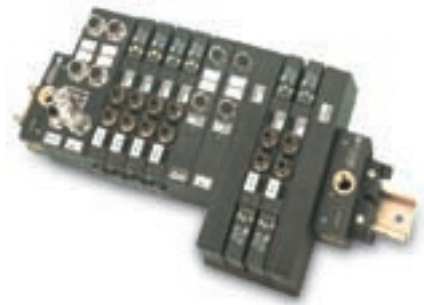
Fitting Ø6
 Fitting Ø8

B=105 mm
 B=109 mm

Intermediary air supply



Stacking high flow valves with air pilot or solenoid actuation. Lightweight plastic bodies feature push-in or threaded connections. Modular pneumatic inlet, exhaust and modular electrical connections.



- High flow, compact, light weight
- Push-in or threaded pneumatic connections
- 2 x 3/2 - 5/2 - 5/3 functions
- Electrical head connection by Sub D 25 or Industrial Cylindrical Connector.
- Bus protocols: Interbus S, Profibus DP, DeviceNet and ASI
- Modular system

Flow characteristics (Qmax)		
	Type 2 x 3/2 G1/8 threaded	Push in Ø6 mm
Flow Qmax	750 l/min	600 l/min
Flow Qn	400 l/min	300 l/min
	Type 5/2 G1/8 threaded	Push in Ø6 mm
Flow Qmax	900 l/min	775 l/min
Flow Qn	540 l/min	420 l/min
	Type 5/3 closed centre G1/8 threaded	Push in Ø6 mm
Flow Qmax	650 l/min	500 l/min
Flow Qn	370 l/min	280 l/min
	Type 5/3 vented centre G1/8 threaded	Push in Ø6 mm
Flow Qmax	900 l/min	775 l/min
Flow Qn	540 l/min	420 l/min

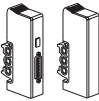
Operating information	
Working Pressure	2 to 10 bar (3 to 10 bar for Monostable)
Working temperature	-15 °C to +60 °C (Bus modules: 0°C to 50°C)
Protection level	IP65
Input modules	
Protection level	IP65
Voltage and type of output	PNP 24V DC
Normal current	100 mA
Maxi. available current island	1 A for all the inputs
Output modules	
Protection level	IP65
Type and output voltage	PNP 24V DC
Normal current	100 mA
Maxi. available current island	1 A for all the outputs

Valve slices including solenoids



Symbol	Actuator	Return	Pneumatic connection	Voltage	Order code
	Solenoid double 3/2 NC	Internal air pilot	Ø6 mm G1/8	24 V DC	PVL-B10560652B
				24 V DC	PVL-B10561852B
	Solenoid 5/2	Solenoid	Ø6 mm G1/8	24 V DC	PVL-B10260602B
				24 V DC	PVL-B10261802B
	Solenoid 5/2	Spring	Ø6 mm G1/8	24 V DC	PVL-B10160652B
				24 V DC	PVL-B10161852B
	Solenoid 5/3 closed centre	Solenoid self centring	Ø6 mm G1/8	24 V DC	PVL-B10760602B
				24 V DC	PVL-B10761802
	Solenoid 5/3 vented centre	Solenoid self centring	Ø6 mm	24 V DC	PVL-B10860602B

Indicates stocked product.

Electrical head and tail sets

	Valves configuration	Type of connector	Order code
	Single solenoid	Sub-D25	PVL-B191125
	Double solenoid	Sub-D25	PVL-B192125
	Double solenoid	Cylindrical 35-pins	PVL-B192235
	Double solenoid then Single solenoid	Sub-D25	PVL-B194125
	Single solenoid then Double solenoid	Sub-D25	PVL-B193125
Transfer module	Double solenoid then Single solenoid		PVL-B1940
	Single solenoid then Double solenoid		PVL-B1930
	35 pin round cable 5meters		P8L-MC35A5

Pneumatic head and tail sets

Type of	Description mounting	Port size	Order code
	Single supply head and tail set	G1/4	PVL-B1719
	Dual air supply head and tail set	G1/4	PVL-B1729
	Single air supply head and tail set	G1/8	PVL-B1818
	Dual air supply head and tail set	G1/8	PVL-B1828
	Pressure isolating disc. (Sold in lots of 10)		PVL-B1902


Input Module

Type	Connection	Order code
PVL-B Single solenoid	2 Inputs	PVL-B1E1302
PVL-B Double solenoid	4 Inputs	PVL-B1E2304


Output Module


Type	Connection	Order code
PVL-B Single solenoid	2 Outputs	PVL-B1S1302
PVL-B Double solenoid	4 Outputs	PVL-B1S2304

Head and tail sets

	Description	Type	Connection	Order code
	Pneumatic head and tail set with closing plates (and transfer module)	Double solenoid then Single solenoid	G1/4	PVL-B194729
		Double solenoid	G1/4	PVL-B192729
	Connector	M23 female 6 pins power	Supply	P8C-MC06B
		M23 female 12 pins	Profibus	P8C-MC12BP
	Plug	M23, IP 65	Bus Out	P8C-PB1
	Installation Diskett	Profibus and DeviceNet		P8C-PDISK

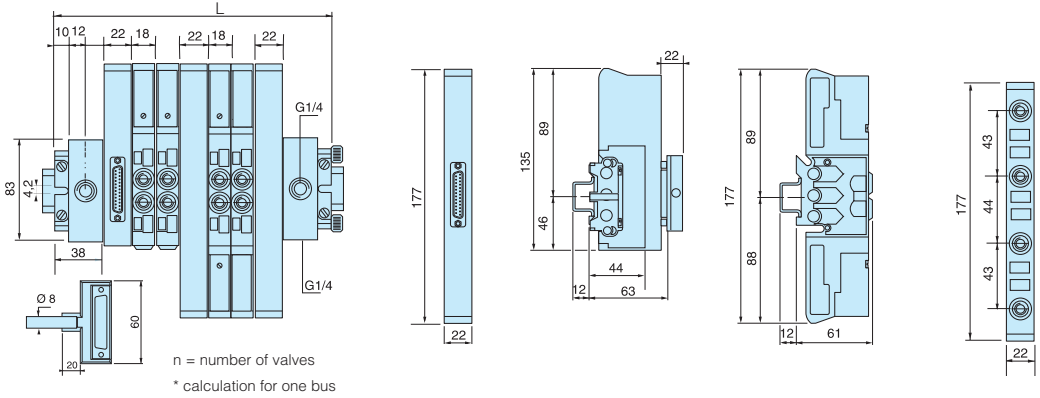
Connecting leads for Head module with Sub D 25

Type	Connection to valve island	Connection to PLC	Length m	Order code
	Leads for head module with Sub D 25 female	20 coloured wires AWG 24	5,0	P8L-MD25A5B
			9,9	P8L-MD25A9B
			15,0	P8L-MD25ACB

 Indicates stocked product.

Dimensions, Valvetronic PVL-B10

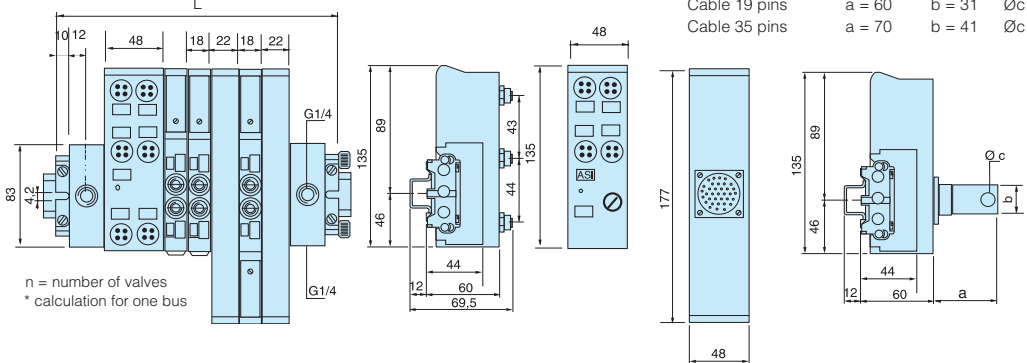
Uniform configuration $L = 120 + (n \times 18)^*$
 Mixed configuration $L = 142 + (n \times 18)^*$



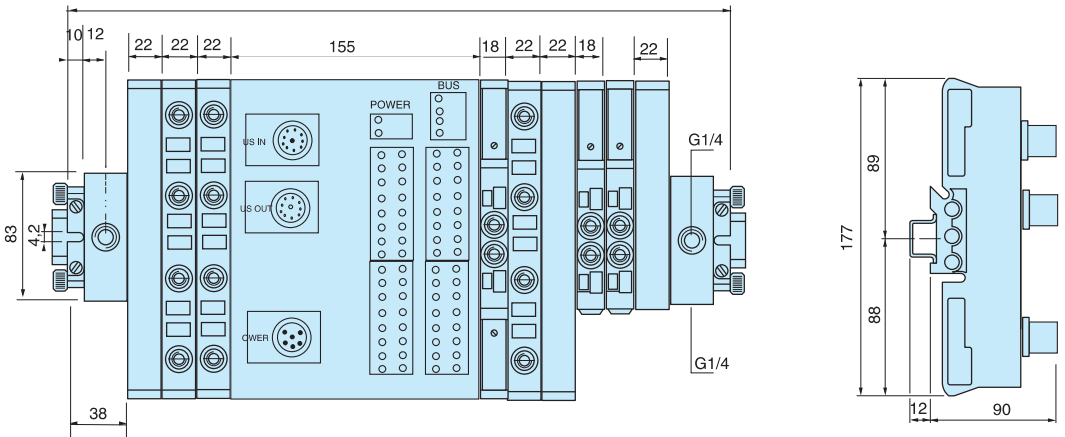
ASI Bus

Uniform configuration $L = 146 + (n \times 18)^*$
 Mixed configuration $L = 168 + (n \times 18)^*$

Connector 19 pins	a = 90	b = 31
Connector 35 pins	a = 115	b = 41
Cable 19 pins	a = 60	b = 31
Cable 35 pins	a = 70	b = 41
		$\varnothing c = 15$



DeviceNet, Profibus DP, Interbus S, FIPIO



Stacking high flow valves with air pilot or solenoid actuation. Lightweight plastic bodies feature push-in or threaded connections. Modular pneumatic inlet, exhaust and modular electrical connections.

- High flow, compact, light weight
- Push-in or threaded pneumatic outlets
- Bus protocols: Interbus S, Profibus DP, DeviceNet and ASI
- Electrical head connection by Cable gland, Sub D 25 or cylindrical connection
- Modular system



Flow characteristics (Qmax)		
	Type 2 x 3/2 G1/4 threaded	Push in Ø8 mm
Flow Qmax	950 l/min	900 l/min
Flow Qn	830 l/min	470 l/min
	Type 5/2 G1/4 threaded	Push in Ø8 mm
Flow Qmax	1850 l/min	1400 l/min
Flow Qn	1100 l/min	820 l/min
	Type 5/3 closed centre G1/4 threaded	Push in Ø8 mm
Flow Qmax	1300 l/min	1170 l/min
Flow Qn	790 l/min	640 l/min
	Type 5/3 vented centre G1/4 threaded	Push in Ø8 mm
Flow Qmax	1850 l/min	1400 l/min
Flow Qn	1100 l/min	830 l/min

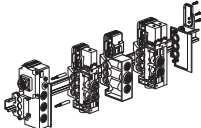
Operating information	
Working Pressure	2 to 10 bar (3 to 10 bar for Monostable)
Working temperature	-15 °C to +60 °C (Bus modules: 0°C to 50°C)
Protection level	IP65

Valve slices including solenoids

Symbol	Actuator	Return	Pneumatic connection	Voltage	Order code
	Solenoid double 3/2 NC	Internal air pilot	G1/4	24 V DC	PVL-C10561952B
	Solenoid 5/2	Solenoid	G1/4	24 V DC	PVL-C10261902B
	Solenoid 5/2	Spring	G1/4	24 V DC	PVL-C10161952B
	Solenoid 5/3 closed centre	Solenoid self centring	G1/4	24 V DC	PVL-C10761902B
	Solenoid 5/3 vented centre	Solenoid self centring	G1/4	24 V DC	PVL-C10861902B

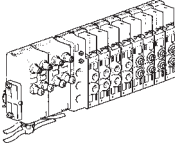
Indicates stocked product.

Head and tail Electrical pneumatic modules

Description	Auxiliary Pressure px	Electrical Connection	Pneumatic Connection	Order code
 Head modules + tail closing plate	Without px	Cable gland	G3/8	PVL-C1713H20A
		Sub D 25	G3/8	PVL-C1713D25A
	With px	Cable gland	G3/8	PVL-C2713H20A
Tail air supply module			G3/8	PVU-LC213
Intermediate air supply module			G3/8	PVU-LC213E
Pressure isolating discs				PVL-C1902 Sold in lots of 10

For connecting leads see page 162.


ASI Bus Modules - Inputs and Outputs version

Description	Connection	Order code
 Head master module with tail closing plate	M12 ASI/24V	PVL-BA1BA44
	Vampire ASI/24V	PVL-BA1BA44V
Intermediate module	M12 ASI/24V	PVL-BA5BA44
Spare vampire cover clip		P8B-AVMP2 Sold in lots of 5
Connection LEAD to address terminal		P8B-AJACK

Combination Kits PVL-B10/PVL-C10 or PVL-C10/ASI bus modules

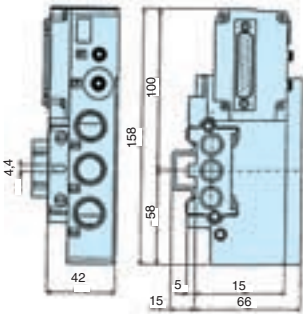
Type of combination module		Connection	Order code
Combination PVL-B10/PVL-C10	Without px version*	G1/4 and G3/8	PVL-C1713B19
	With px version (Ø4mm)*	G1/4 and G3/8	PVL-C2713B19
Combination bus ASI/PVL-C10	Without px version*	G3/8	PVL-C1713B
	With px version (Ø4mm)*	G3/8	PVL-C2713B

*px = auxiliary air supply for solenoids, separately from the main valves air supply.

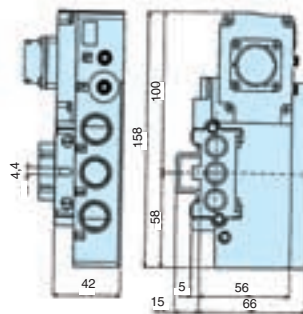
 Indicates stocked product.

Dimensions, Valvetronic PVL-C10

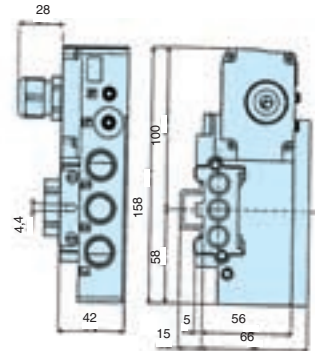
Head modules : SubD25 connector



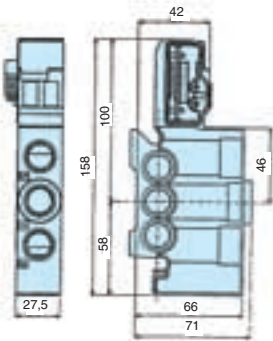
Cylindrical connector



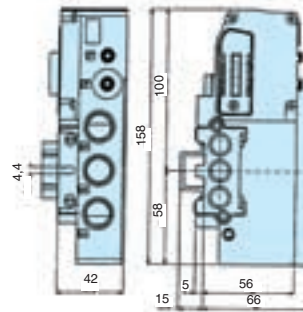
Cable gland



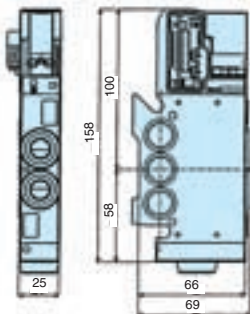
Intermediary air supply module



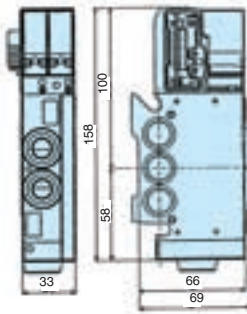
**Transfer Module from PVL-B10/PVL-C10 and Head
ASI bus / Air feed module PVL-C10**



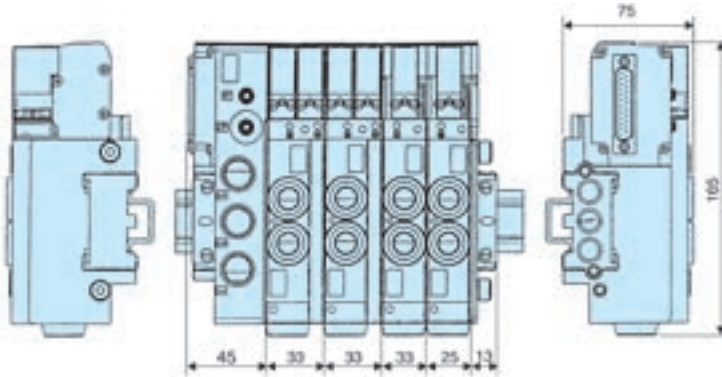
Valve 5/2 monostable



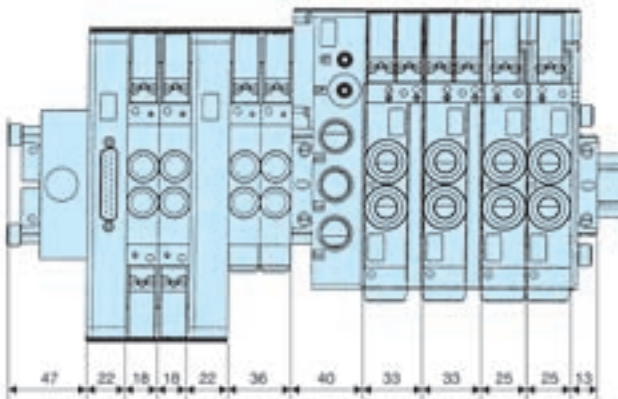
Valve 5/2 bistable - 2x3/2 - 5/3



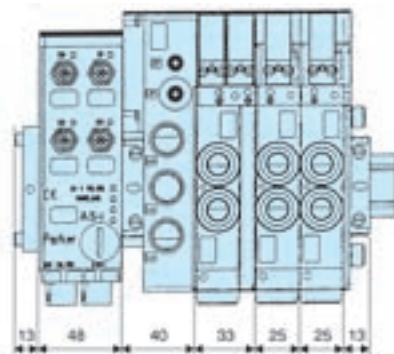
Dimensions, Valvetronic PVL-C10



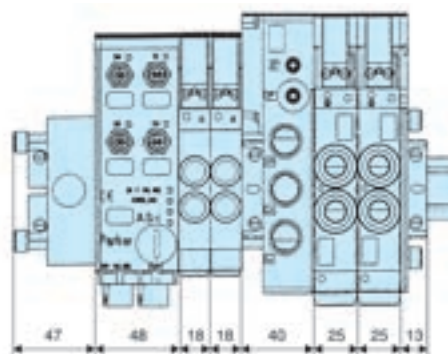
Association PVL-B10 G1/8 and PVL-C10 G1/4



Association ASI and PVL-C10









Association ASI and PVL-B10 and PVL-C10





ISO 15407

Size 02 / 01

Cylinders from Ø 10 to 100









ISO 15407-1 Individual Connection	DIN C	Isomax 	
	M12	ISYS ISO 	
	Remote pilot	Isomax 	ISYS ISO 
	Subbase, Manifolds		
	Flow Control, Regulator		

ISO 15407-2 Plug-in	Plug-in	ISYS ISO 
	Subbase, Manifolds	

ISO 5599

Size 1 / 2 / 3

Cylinders from Ø 63 to 200

ISO 5599-1 Individual Connection	DIN A, Industrial	Isomax 	ISYS ISO 	
	M12, M23	Isomax 	ISYS ISO 	
	Remote pilot	Isomax 	ISYS ISO 	
	Subbase, Manifolds			
	Flow Control, Regulator			

ISO 5599-2 Plug-in	Plug-in	ISYS ISO 
	Subbase, Manifolds	

Ceramic slide valves for maximum operational life.
Solenoid or air pilot actuation. Vacuum to 10 bar general applications.



- Size 01 and 02 (26 and 18 mm)
- Ceramic technology for long life operation
- From vacuum up to 10 bar applications
- Internal or external pilot supply with same valves
- Capture solenoid exhaust

Operation information

Working pressure :	-0,9 to 10 bar	
Working temperature :	-10 to +60°C	
	DX02	DX01
Flow (Qmax.) :	630 l/min	1000 l/min
Flow (Qn) :	385 l/min	585 l/min







Solenoid operated ISO valve fitted with 15 mm solenoid 24 VDC

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	02 - 18mm	Electrical signal	Spring	4,0/2,0	15/25	0.13	DX02-621-951M
	01 - 26mm	Electrical signal	Spring	4,3/2,3	25/35	0.17	DX01-621-951M
	02 - 18mm	Electrical signal	Differential	3,9/1,6	15/30	0.13	DX02-651-951M
	01 - 26mm	Electrical signal	Differential	3,8/1,7	20/40	0.17	DX01-651-951M
	02 - 18mm	Electrical signal	Electrical signal	1,3/1,3	12/12	0.17	DX02-606-951M
	01 - 26mm	Electrical signal	Electrical signal	1,0/1,0	15/15	0.21	DX01-606-951M
5/3 Valves							
	02 - 18mm	Electrical signal	Electrical signal	3,3	20/60	0.17	DX02-616-951M
	01 - 26mm	Closed center	Self centering	2,9	20/60	0.21	DX01-616-951M
	02 - 18mm	Electrical signal	Electrical signal	3,3	20/60	0.17	DX02-611-951M
	01 - 26mm	Vented center	Self centering	3	20/60	0.21	DX01-611-951M
	02 - 18mm	Electrical signal	Electrical signal	3,3	20/60	0.17	DX02-613-951M
	01 - 26mm	Press. center	Self centering	3	20/60	0.21	DX01-613-951M

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

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	02 - 18mm	Electrical signal	Spring	4,0/2,0	15/25	0.9	DX02-621-60
	01 - 26mm	Electrical signal	Spring	4,3/2,3	25/35	0.13	DX01-621-60
	02 - 18mm	Electrical signal	Differential	3,9/1,6	15/30	0.9	DX02-651-60
	01 - 26mm	Electrical signal	Differential	3,8/1,7	20/40	0.13	DX01-651-60
	02 - 18mm	Electrical signal	Electrical signal	1,3/1,3	12/12	0.9	DX02-606-60
	01 - 26mm	Electrical signal	Electrical signal	1,0/1,0	15/15	0.13	DX01-606-60
5/3 Valves							
	02 - 18mm	Electrical signal	Electrical signal	3,3	20/60	0.9	DX02-616-60
	01 - 26mm	Closed center	Self centering	2,9	20/60	0.13	DX01-616-60
	02 - 18mm	Electrical signal	Electrical signal	3,3	20/60	0.9	DX02-611-60
	01 - 26mm	Vented center	Self centering	3	20/60	0.13	DX01-611-60
	02 - 18mm	Electrical signal	Electrical signal	3,3	20/60	0.9	DX02-613-60
	01 - 26mm	Press. center	Self centering	3	20/60	0.13	DX01-613-60

Pneumatic operated ISO valve

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	02 - 18mm	Air signal	Spring	4,0/2,0	15/25	0.9	DX02-421-60 DX01-421-60
	01 - 26mm	Air signal	Spring	4,3/2,3	25/35	0.13	
	02 - 18mm	Air signal	Differential	3,9/1,6	15/30	0.9	DX02-451-60 DX01-451-60
	01 - 26mm	Air signal	Differential	3,8/1,7	20/40	0.13	
	02 - 18mm	Air signal	Air signal	1,3/1,3	12/12	0.9	DX02-406-60 DX01-406-60
	01 - 26mm	Air signal	Air signal	1,0/1,0	14/14	0.13	
5/3 Valves							
	02 - 18mm	Air signal	Air signal	3,3	20/50	0.9	DX02-416-60 DX01-416-60
	01 - 26mm	Closed center	Self centering	2,9	20/50	0.13	
	02 - 18mm	Air signal	Air signal	3,3	20/50	0.9	DX02-411-60 DX01-411-60
	01 - 26mm	Vented center	Self centering	3	20/50	0.13	
	02 - 18mm	Air signal	Air signal	3,3	20/50	0.9	DX02-413-60 DX01-413-60
	01 - 26mm	Press. center	Self centering	3	20/50	0.13	

Solenoids 15 mm NC standard flow DIN 1,2 W/1,6 VA

Voltage	Order code	Order code
	Override flush non locking	Override flush locking
24 V DC	P2E-KV32C1	P2E-KV32C2
48 V DC	P2E-KV32D1	P2E-KV32D1
24 V AC 50 Hz	P2E-KV31C1	P2E-KV31C2
48 V AC 50/60 Hz	P2E-KV34D1	P2E-KV34D2
115 V AC 50 Hz / 120 V AC 60 Hz	P2E-KV31F1	P2E-KV31F2
230 V AC 50 Hz / 240 V AC 60 Hz	P2E-KV31J1	P2E-KV31J2

Connectors see page 186.

 Indicates stocked product.

Ceramic slide valves for maximum operational life. Solenoid or air pilot operated with a wide choice of bases and manifolds. Vacuum to 12 bar general applications.




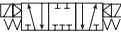

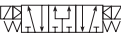
- Size1, 2 and 3
- Ceramic technology for long life operation
- From vacuum up to 12 bar applications
- Internal or external pilot supply with same valves
- M12 on each coil
- Common M12






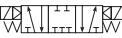

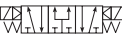
Operation information

Working pressure :	-0,9 to 12 bar		
Working temperature :	-10 to +60°C		
	DX1	DX2	DX3
Flow (Qmax.) :	1680 l/min	3640 l/min	6420 l/min
Flow (Qn.) :	1150 l/min	2330 l/min	4050 l/min
ATEX approval:	CE Ex II 2 GD c 85°C		
For ATEX specific products contact Sales Office			






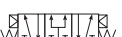
Solenoid operated ISO valve fitted with CNOMO solenoid(s) 24 VDC

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring	3,9/2,5	40/55	0.5	DX1-621-BL49 DX2-621-BL49 DX3-621-BL49
	2 - 56mm	Electrical signal	Spring	3,6/2,4	60/105	0.75	
	3 - 71mm	Electrical signal	Spring	3,6/2,3	85/160	1.25	
	1 - 43mm	Electrical signal	Differential	3,3/1,9	30/70	0.5	DX1-651-BL49 DX2-651-BL49 DX3-651-BL49
	2 - 56mm	Electrical signal	Differential	3,3/2,0	55/110	0.75	
	3 - 71mm	Electrical signal	Differential	3,3/1,9	80/180	1.25	
	1 - 43mm	Electrical signal	Electrical signal	1,0/1,0	25/25	0.65	DX1-606-BL49 DX2-606-BL49 DX3-606-BL49
	2 - 56mm	Electrical signal	Electrical signal	1,0/1,0	30/30	0.9	
	3 - 71mm	Electrical signal	Electrical signal	1,0/1,0	40/40	1.4	
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,6	30/95	0.65	DX1-616-BL49 DX2-616-BL49 DX3-616-BL49
	2 - 56mm	Closed center	Self centering	2,1	40/190	0.9	
	3 - 71mm			2,1	55/330	1.4	
	1 - 43mm	Electrical signal	Electrical signal	2,8	25/70	0.65	DX1-611-BL49 DX2-611-BL49 DX3-611-BL49
	2 - 56mm	Vented center	Self centering	2,2	40/140	0.9	
	3 - 71mm			2,1	60/270	1.4	
	1 - 43mm	Electrical signal	Electrical signal	2,4	25/65	0.65	DX1-613-BL49 DX2-613-BL49
	2 - 56mm	Press. center	Self centering	2,1	40/150	0.9	




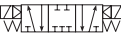

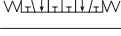
Solenoid operated ISO valve fitted with CNOMO operator without coil

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring	3,9/2,5	40/55	0.4	DX1-621-BN DX2-621-BN DX3-621-BN
	2 - 56mm	Electrical signal	Spring	3,6/2,4	60/105	0.65	
	3 - 71mm	Electrical signal	Spring	3,6/2,3	85/160	1.15	
	1 - 43mm	Electrical signal	Differential	3,3/1,9	30/70	0.4	DX1-651-BN DX2-651-BN DX3-651-BN
	2 - 56mm	Electrical signal	Differential	3,3/2,0	55/110	0.65	
	3 - 71mm	Electrical signal	Differential	3,3/1,9	80/180	1.15	
	1 - 43mm	Electrical signal	Electrical signal	1,0/1,0	25/25	0.55	DX1-606-BN DX2-606-BN DX3-606-BN
	2 - 56mm	Electrical signal	Electrical signal	1,0/1,0	30/30	0.8	
	3 - 71mm	Electrical signal	Electrical signal	1,0/1,0	40/40	1.3	
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,6	30/95	0.55	DX1-616-BN DX2-616-BN DX3-616-BN
	2 - 56mm	Closed center	Self centering	2,1	40/190	0.8	
	3 - 71mm			2,1	55/330	1.3	
	1 - 43mm	Electrical signal	Electrical signal	2,8	25/70	0.55	DX1-611-BN DX2-611-BN DX3-611-BN
	2 - 56mm	Vented center	Self centering	2,2	40/140	0.8	
	3 - 71mm			2,1	60/270	1.3	
	1 - 43mm	Electrical signal	Electrical signal	2,4	25/65	0.55	DX1-613-BN DX2-613-BN
	2 - 56mm	Press. center	Self centering	2,1	40/150	0.8	




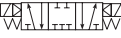

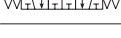
Pneumatic operated ISO valve without valve spool override

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Air signal	Spring	3,9/2,5	30/45	0.35	DX1-421-60 DX2-421-60 DX3-421-60
	2 - 56mm	Air signal	Spring	3,6/2,4	50/95	0.6	
	3 - 71mm	Air signal	Spring	3,6/2,3	80/160	1.1	
	1 - 43mm	Air signal	Differential	3,3/1,9	25/60	0.35	DX1-451-60 DX2-451-60 DX3-451-60
	2 - 56mm	Air signal	Differential	3,3/2,0	45/100	0.6	
	3 - 71mm	Air signal	Differential	3,3/1,9	70/170	1.1	
	1 - 43mm	Air signal	Air signal	1,0/1,0	20/20	0.35	DX1-406-60 DX2-406-60 DX3-406-60
	2 - 56mm	Air signal	Air signal	1,0/1,0	25/25	0.6	
	3 - 71mm	Air signal	Air signal	1,0/1,0	35/35	1.1	
5/3 Valves							
	1 - 43mm	Air signal	Air signal	2,6	20/80	0.35	DX1-416-60 DX2-416-60 DX3-416-60
	2 - 56mm	Closed center	Self centering	2,1	30/170	0.6	
	3 - 71mm			2,1	45/330	1.1	
	1 - 43mm	Air signal	Air signal	2,8	20/65	0.35	DX1-411-60 DX2-411-60 DX3-411-60
	2 - 56mm	Vented center	Self centering	2,2	30/140	0.6	
	3 - 71mm			2,1	50/270	1.1	
	1 - 43mm	Air signal	Air signal	2,4	20/60	0.35	DX1-413-60 DX2-413-60
	2 - 56mm	Press. center	Self centering	2,1	25/140	0.6	

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

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring	3,9/2,5	40/55	0.5	DX1-621-B619
	2 - 56mm	Electrical signal	Spring	3,6/2,4	60/105	0.75	DX2-621-B619
	3 - 71mm	Electrical signal	Spring	3,6/2,3	85/160	1.25	DX3-621-B619
	1 - 43mm	Electrical signal	Differential	3,3/1,9	30/70	0.5	DX1-651-B619
	2 - 56mm	Electrical signal	Differential	3,3/2,0	55/110	0.75	DX2-651-B619
	3 - 71mm	Electrical signal	Differential	3,3/1,9	80/180	1.25	DX3-651-B619
	1 - 43mm	Electrical signal	Electrical signal	1,0/1,0	25/25	0.65	DX1-606-B619
	2 - 56mm	Electrical signal	Electrical signal	1,0/1,0	30/30	0.9	DX2-606-B619
	3 - 71mm	Electrical signal	Electrical signal	1,0/1,0	40/40	1.4	DX3-606-B619
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,6	30/95	0.65	DX1-616-B619
	2 - 56mm	Closed center	Self centering	2,1	40/190	0.9	DX2-616-B619
	3 - 71mm			2,1	55/330	1.4	DX3-616-B619
	1 - 43mm	Electrical signal	Electrical signal	2,8	25/70	0.65	DX1-611-B619
	2 - 56mm	Vented center	Self centering	2,2	40/140	0.9	DX2-611-B619
	3 - 71mm			2,1	60/270	1.4	DX3-611-B619
	1 - 43mm	Electrical signal	Electrical signal	2,4	25/65	0.65	DX1-613-B619
	2 - 56mm	Press. center	Self centering	2,1	40/150	0.9	DX2-613-B619

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

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring	3,9/2,5	40/55	0.65	DX1-621-B219
	2 - 56mm	Electrical signal	Spring	3,6/2,4	60/105	0.9	DX2-621-B219
	3 - 71mm	Electrical signal	Spring	3,6/2,3	85/160	1.4	DX3-621-B219
	1 - 43mm	Electrical signal	Differential	3,3/1,9	30/70	0.65	DX1-651-B219
	2 - 56mm	Electrical signal	Differential	3,3/2,0	55/110	0.9	DX2-651-B219
	3 - 71mm	Electrical signal	Differential	3,3/1,9	80/180	1.4	DX3-651-B219
	1 - 43mm	Electrical signal	Electrical signal	1,0/1,0	25/25	0.8	DX1-606-B219
	2 - 56mm	Electrical signal	Electrical signal	1,0/1,0	30/30	1.05	DX2-606-B219
	3 - 71mm	Electrical signal	Electrical signal	1,0/1,0	40/40	1.55	DX3-606-B219
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,6	30/95	0.8	DX1-616-B219
	2 - 56mm	Closed center	Self centering	2,1	40/190	1.05	DX2-616-B219
	3 - 71mm			2,1	55/330	1.55	DX3-616-B219
	1 - 43mm	Electrical signal	Electrical signal	2,8	25/70	0.8	DX1-611-B219
	2 - 56mm	Vented center	Self centering	2,2	40/140	1.05	DX2-611-B219
	3 - 71mm			2,1	60/270	1.55	DX3-611-B219
	1 - 43mm	Electrical signal	Electrical signal	2,4	25/65	0.8	DX1-613-B219
	2 - 56mm	Press. center	Self centering	2,1	40/150	1.05	DX2-613-B219

Solenoid or air pilot actuation. Vacuum to 10 bar heavy duty applications.



- Size HA and HB (26mm and 18mm)
- Heavy duty and corrosion resistant body
- Internal led & rectifier
- Internal or external pilot supply with same valve
- M12 common wiring

Operation information

Working pressure :	2,0 to 10 bar	
Working temperature :	-15 to +50°C	
	Size 02	Size 01
Flow (Qmax.) :	10,8 l/s	25,3 l/s
Flow (Qn) :	6,5 l/s	15,3 l/s

Solenoid operated ISO valve, 24VDC, central M12 connection

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	02 - 18mm	Electrical signal	Spring & Diff.	3,1	20/40	0.15	HB EWXBG2G9000FA
	01 - 26mm	Electrical signal	Spring & Diff.	3,1	20/45	0.25	
	02 - 18mm	Electrical signal	Differential	2,7	15/40	0.15	HB1WXBG2G9000FA
	01 - 26mm	Electrical signal	Differential	2,7	15/50	0.25	
	02 - 18mm	Electrical signal	Electrical signal	1,7	10	0.165	HB2WXBG2G9000FA
	01 - 26mm	Electrical signal	Electrical signal	1,7	10	0.265	
5/3 Valves							
	2 - 18mm	Electrical signal	Electrical signal	2,4	15/60	0.165	HB5WXBG2G9000FA
	01 - 26mm	Closed center	Self centering	2,4	15/50	0.265	
	02 - 18mm	Electrical signal	Electrical signal	2,4	15/60	0.165	HB6WXBG2G9000FA
	01 - 26mm	Vented center	Self centering	2,4	15/50	0.265	
	02 - 18mm	Electrical signal	Electrical signal	2,4	15/60	0.165	HB7WXBG2G9000FA
	01 - 26mm	Press. center	Self centering	2,4	15/50	0.265	

Pneumatic operated ISO valve

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	02 - 18mm	Air signal	Spring & Diff.	3,1	15/30	0.115	HBFWX000XXA
	01 - 26mm	Air signal	Spring & Diff.	3,1	15/40	0.215	
	02 - 18mm	Air signal	Differential	2,7	10/30	0.115	HB3WX000XXA
	01 - 26mm	Air signal	Differential	2,7	15/35	0.215	
	02 - 18mm	Air signal	Air signal	1,7	8	0.115	HB4WX000XXA
	01 - 26mm	Air signal	Air signal	1,7	10	0.215	
5/3 Valves							
	2 - 18mm	Air signal	Air signal	2,4	15/35	0.115	HB8WX000XXA
	01 - 26mm	Closed center	Self centering	2,4	15/40	0.215	
	02 - 18mm	Air signal	Air signal	2,4	15/35	0.115	HB9WX000XXA
	01 - 26mm	Vented center	Self centering	2,4	15/40	0.215	
	02 - 18mm	Air signal	Air signal	2,4	15/35	0.115	HB0WX000XXA
	01 - 26mm	Press. center	Self centering	2,4	15/40	0.215	

Solenoid actuated Iso valve for multiple and centralised field bus (Plug-in)

- Size HA and HB (26mm and 18mm)
- Heavy duty and corrosion resistant body
- Internal led & rectifier
- Internal or external pilot supply with same valve
- Multiple connection, Sub D25, M23, Terminal block
- Communication with ISYS NET



Operation information

Working pressure :	2,0 to 10 bar	
Working temperature :	-15 to +50°C	
	Size 02	Size 01
Flow (Qmax.) :	10,8 l/s	25,3 l/s
Flow (Qn) :	6,5 l/s	15,3 l/s

Solenoid operated ISO plug-in valve, 24VDC

Manual override non locking, Led & surge suppressor

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	02 - 18mm	Electrical signal	Spring & Diff.	3,1	20/40	0.13	HB5VXBG0G9A HA5VXBG0G9A
	01 - 26mm	Electrical signal	Spring & Diff.	3,1	20/45	0.23	
	02 - 18mm	Electrical signal	Differential	2,7	15/40	0.13	HB1VXBG0G9A HA1VXBG0G9A
	01 - 26mm	Electrical signal	Differential	2,7	15/50	0.23	
	02 - 18mm	Electrical signal	Electrical signal	1,7	10	0.145	HB2VXBG0G9A HA2VXBG0G9A
	01 - 26mm	Electrical signal	Electrical signal	1,7	10	0.245	
5/3 Valves							
	02 - 18mm	Electrical signal	Electrical signal	2,4	15/60	0.145	HB5VXBG0G9A HA5VXBG0G9A
	01 - 26mm	Closed center	Self centering	2,4	15/50	0.245	
	02 - 18mm	Electrical signal	Electrical signal	2,4	15/60	0.145	HB6VXBG0G9A HA6VXBG0G9A
	01 - 26mm	Vented center	Self centering	2,4	15/50	0.245	
	02 - 18mm	Electrical signal	Electrical signal	2,4	15/60	0.145	HB7VXBG0G9A HA7VXBG0G9A
	01 - 26mm	Press. center	Self centering	2,4	15/50	0.245	

Heavy duty valve. Solenoid or air pilot. Vacuum to 10 bar. Wide choice of electrical connections.

- Size 1, 2, 3
- Heavy duty and corrosion resistant body
- Vacuum to 10 bar
- Internal or external pilot supply with same valve
- Din A, M12, M23 connections






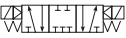
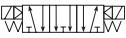
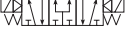
Operation information

Working pressure :	2,0 to 10 bar		
Working temperature :	-15 to +50°C		
	Size 1	Size 2	Size 3
Flow (Qmax.) :	34,5 l/s	69,0 l/s	130,8 l/s
Flow (Qn) :	20,8 l/s	42,0 l/s	83,7 l/s

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




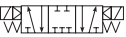


Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring & Diff.	3,1/2,5	25/35	0,77	H1EWXBBL49C
	2 - 56mm	Electrical signal	Spring & Diff.	3,1/2,1	40/70	1,19	H2EWXBBL49C
	3 - 71mm	Electrical signal	Spring & Diff.	3,8/3,3	70/80	1,47	H3EWXBBL49C
	1 - 43mm	Electrical signal	Differential	1,7/1,9	25/45	0,77	H11WXBBL49C
	2 - 56mm	Electrical signal	Differential	2,4/1,7	35/80	1,19	H21WXBBL49C
	3 - 71mm	Electrical signal	Differential	3,5/2,4	55/85	1,47	H31WXBBL49C
	1 - 43mm	Electrical signal	Electrical signal	1,7	15	0,94	H12WXBBL49C
	2 - 56mm	Electrical signal	Electrical signal	1,7	20	1,36	H22WXBBL49C
	3 - 71mm	Electrical signal	Electrical signal	2,4	25	1,64	H32WXBBL49C
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,4	15/60	0,94	H15WXBBL49C
	2 - 56mm	Closed center	Self centering	3,5	30/75	1,36	H25WXBBL49C
	3 - 71mm	Closed center	Self centering	3,5	23/80	1,64	H35WXBBL49C
	1 - 43mm	Electrical signal	Electrical signal	2,4	15/60	0,94	H16WXBBL49C
	2 - 56mm	Vented center	Self centering	3,5	30/75	1,36	H26WXBBL49C
	3 - 71mm	Vented center	Self centering	3,5	23/80	1,64	H36WXBBL49C
	1 - 43mm	Electrical signal	Electrical signal	2,4	15/60	0,94	H17WXBBL49C
	2 - 56mm	Press. center	Self centering	3,5	30/75	1,36	H27WXBBL49C
	3 - 71mm	Press. center	Self centering	3,5	23/80	1,64	H37WXBBL49C

Solenoid operated ISO valve fitted with CNOMO operator without coil




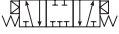


Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring & Diff.	3,1/2,5	25/35	0.65	H1EWXBBNXXC H2EWXBBNXXC H3EWXBBNXXC
	2 - 56mm	Electrical signal	Spring & Diff.	3,1/2,1	40/70	1.07	
	3 - 71mm	Electrical signal	Spring & Diff.	3,8/3,3	70/80	1.35	
	1 - 43mm	Electrical signal	Differential	1,7/1,9	25/45	0.65	H11WXBBNXXC H21WXBBNXXC H31WXBBNXXC
	2 - 56mm	Electrical signal	Differential	2,4/1,7	35/80	1.07	
	3 - 71mm	Electrical signal	Differential	3,5/2,4	55/85	1.35	
	1 - 43mm	Electrical signal	Electrical signal	1,7	15	0.7	H12WXBBNXXC H22WXBBNXXC H32WXBBNXXC
	2 - 56mm	Electrical signal	Electrical signal	1,7	20	1.12	
	3 - 71mm	Electrical signal	Electrical signal	2,4	25	1.4	
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,4	15/60	0.7	H15WXBBNXXC H25WXBBNXXC H35WXBBNXXC
	2 - 56mm	Closed center	Self centering	3,5	30/75	1.12	
	3 - 71mm			3,5	23/80	1.4	
	1 - 43mm	Electrical signal	Electrical signal	2,4	15/60	0.7	H16WXBBNXXC H26WXBBNXXC H36WXBBNXXC
	2 - 56mm	Vented center	Self centering	3,5	30/75	1.12	
	3 - 71mm			3,5	23/80	1.4	
	1 - 43mm	Electrical signal	Electrical signal	2,4	15/60	0.7	H17WXBBNXXC H27WXBBNXXC H37WXBBNXXC
	2 - 56mm	Press. center	Self centering	3,5	30/75	1.12	
	3 - 71mm			3,5	23/80	1.4	

Solenoid operated ISO valve, 24VDC, central M12 connection

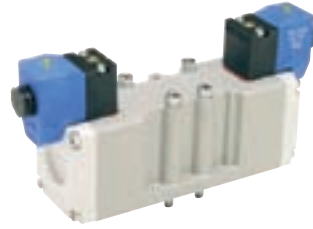
Oriented side 14, Led & surge suppressor

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring & Diff.	3,1/2,5	30/40	0.77	H1EWXBG2B9000FC H2EWXBG2B9000FC H3EWXBG2B9000FC
	2 - 56mm	Electrical signal	Spring & Diff.	3,1/2,1	45/70	1.29	
	3 - 71mm	Electrical signal	Spring & Diff.	3,8/3,3	75/80	1.57	
	1 - 43mm	Electrical signal	Differential	1,7/1,9	30/50	0.77	H11WXBG2B9000FC H21WXBG2B9000FC H31WXBG2B9000FC
	2 - 56mm	Electrical signal	Differential	2,4/1,7	40/80	1.29	
	3 - 71mm	Electrical signal	Differential	3,5/2,4	60/85	1.57	
	1 - 43mm	Electrical signal	Electrical signal	1,7	20	1.04	H12WXBG2B9000FC H22WXBG2B9000FC H32WXBG2B9000FC
	2 - 56mm	Electrical signal	Electrical signal	1,7	25	1.46	
	3 - 71mm	Electrical signal	Electrical signal	2,4	30	1.74	
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	1.04	H15WXBG2B9000FC H25WXBG2B9000FC H35WXBG2B9000FC
	2 - 56mm	Closed center	Self centering	3,5	35/80	1.46	
	3 - 71mm			3,5	40/85	1.74	
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	1.04	H16WXBG2B9000FC H26WXBG2B9000FC H36WXBG2B9000FC
	2 - 56mm	Vented center	Self centering	3,5	35/80	1.46	
	3 - 71mm			3,5	40/85	1.74	
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	1.04	H17WXBG2B9000FC H27WXBG2B9000FC H37WXBG2B9000FC
	2 - 56mm	Press. center	Self centering	3,5	35/80	1.46	
	3 - 71mm			3,5	40/85	1.74	

Pneumatic operated ISO valve without manual override

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Air signal	Spring & Diff.	3,1/2,5	20/30	0.6	H1FWX000XXC
	2 - 56mm	Air signal	Spring & Diff.	3,1/2,1	35/70	1.02	H2FWX000XXC
	3 - 71mm	Air signal	Spring & Diff.	3,8/3,3	65/75	1.3	H3FWX000XXC
	1 - 43mm	Air signal	Differential	1,7/1,9	20/40	0.6	H13WX000XXC
	2 - 56mm	Air signal	Differential	2,4/1,7	30/80	1.02	H23WX000XXC
	3 - 71mm	Air signal	Differential	3,5/2,4	50/85	1.3	H33WX000XXC
	1 - 43mm	Air signal	Air signal	1,7	12	0.6	H14WX000XXC
	2 - 56mm	Air signal	Air signal	1,7	16	1.02	H24WX000XXC
	3 - 71mm	Air signal	Air signal	2,4	20	1.3	H34WX000XXC
5/3 Valves							
	1 - 43mm	Air signal	Air signal	2,4	15/55	0.6	H18WX000XXC
	2 - 56mm	Closed center	Self centering	3,5	20/70	1.12	H28WX000XXC
	3 - 71mm			3,5	30/80	1.3	H38WX000XXC
	1 - 43mm	Air signal	Air signal	2,4	15/55	0.6	H19WX000XXC
	2 - 56mm	Vented center	Self centering	3,5	20/70	1.02	H29WX000XXC
	3 - 71mm			3,5	30/80	1.3	H39WX000XXC
	1 - 43mm	Air signal	Air signal	2,4	15/55	0.6	H10WX000XXC
	2 - 56mm	Press. center	Self centering	3,5	20/70	1.02	H20WX000XXC
	3 - 71mm			3,5	30/80	1.3	H30WX000XXC

Solenoid actuator Iso valve for multiple and centralized field bus



- Size 1, 2, 3
- Heavy duty and corrosion resistant body
- Internal led rectifier
- Internal or external pilot supply with same valve
- Multiple connection, SubD25, M23, Terminal block
- Communication with ISYS NET

Operation information




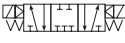
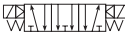
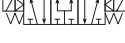
Working pressure :	2,0 to 10 bar		
Working temperature :	-15 to +50°C		
	Size 1	Size 2	Size 3
Flow (Qmax.) :	34,5 l/s	69,0 l/s	130,8 l/s
Flow (Qn) :	20,8 l/s	42,0 l/s	83,7 l/s

Solenoid operated ISO valve, 24VDC, Plug-in


Led & surge suppressor

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code	
5/2 Valves								
	1 - 43mm	Electrical signal	Spring & Diff.	3,1/2,5	30/40	0.77	H1EVXBG0B9C	
	2 - 56mm	Electrical signal	Spring & Diff.	3,1/2,1	45/70	1.19		H2EVXBG0B9C
	3 - 71mm	Electrical signal	Spring & Diff.	3,8/3,3	75/80	1.47		H3EVXBG0B9C
	1 - 43mm	Electrical signal	Differential	1,7/1,9	30/50	0.77	H11VXBG0B9C	
	2 - 56mm	Electrical signal	Differential	2,4/1,7	40/80	1.19		H21VXBG0B9C
	3 - 71mm	Electrical signal	Differential	3,5/2,4	60/85	1.47		H31VXBG0B9C
	1 - 43mm	Electrical signal	Electrical signal	1,7	20	0.94	H12VXBG0B9C	
	2 - 56mm	Electrical signal	Electrical signal	1,7	25	1.36		H22VXBG0B9C
	3 - 71mm	Electrical signal	Electrical signal	2,4	30	1.64		H32VXBG0B9C
5/3 Valves								
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	0.94	H15VXBG0B9C	
	2 - 56mm	Closed center	Self centering	3,5	35/80	1.36		H25VXBG0B9C
	3 - 71mm			3,5	40/85	1.64		H35VXBG0B9C
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	0.94	H16VXBG0B9C	
	2 - 56mm	Vented center	Self centering	3,5	35/80	1.36		H26VXBG0B9C
	3 - 71mm			3,5	40/85	1.64		H36VXBG0B9C
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	0.94	H17VXBG0B9C	
	2 - 56mm	Press. center	Self centering	3,5	35/80	1.36		H27VXBG0B9C
	3 - 71mm			3,5	40/85	1.64		H37VXBG0B9C

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

Symbol	Size	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight Kg	Order code
5/2 Valves							
	1 - 43mm	Electrical signal	Spring & Diff.	3,1/2,5	30/40	0.65	H11VXBGNXXC
	2 - 56mm	Electrical signal	Spring & Diff.	3,1/2,1	45/70	1.07	H21VXBGNXXC
	3 - 71mm	Electrical signal	Spring & Diff.	3,8/3,3	75/80	1.35	H31VXBGNXXC
	1 - 43mm	Electrical signal	Differential	1,7/1,9	30/50	0.65	H11VXBGNXXC
	2 - 56mm	Electrical signal	Differential	2,4/1,7	40/80	1.07	H21VXBGNXXC
	3 - 71mm	Electrical signal	Differential	3,5/2,4	60/85	1.35	H31VXBGNXXC
	1 - 43mm	Electrical signal	Electrical signal	1,7	20	0.7	H12VXBGNXXC
	2 - 56mm	Electrical signal	Electrical signal	1,7	25	1.12	H22VXBGNXXC
	3 - 71mm	Electrical signal	Electrical signal	2,4	30	1.4	H32VXBGNXXC
5/3 Valves							
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	0.7	H15VXBGNXXC
	2 - 56mm	Closed center	Self centering	3,5	35/80	1.12	H25VXBGNXXC
	3 - 71mm			3,5	40/85	1.4	H35VXBGNXXC
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	0.7	H16VXBGNXXC
	2 - 56mm	Vented center	Self centering	3,5	35/80	1.12	H26VXBGNXXC
	3 - 71mm			3,5	40/85	1.4	H36VXBGNXXC
	1 - 43mm	Electrical signal	Electrical signal	2,4	20/65	0.7	H17VXBGNXXC
	2 - 56mm	Press. center	Self centering	3,5	35/80	1.12	H27VXBGNXXC
	3 - 71mm			3,5	40/85	1.4	H37VXBGNXXC


Side ported subbase



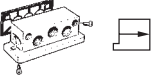

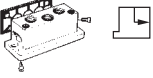

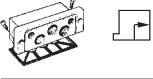


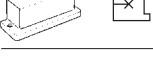



	Description	Port size	Weight	Order code BSPP "G"	Order code NPT
	Individual subbase kit				
	Subbase with side port				
	Size 02	G1/8	0.07	PL02-01-70	PL02-01-80
	Size 01	G1/4	0.12	PL01-02-70	PL01-02-80

Side ported manifold


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

Accessories

	Description	Weight	Order code
	Blanking plate		
	Size 02	0.04	DX02BLK
	Size 01	0.05	DX01BLK
	Blanking plug (for subbase PJL)		
	Size 02	0.01	D02BD0
	Size 01	0.02	D01BD0
	Bolt, washer and nut		
	Size 02		DX02M2MB
	Size 01		DX01M2MB


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.	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 PS5634P Size 01 - 26mm PS5534P
	Manifold to Manifold gasket kit HA & HB Gasket Standard PS561AP HA & HB Gasket 1 Blocked PS561BP HA & HB Gasket 1 2 3 Blocked PS561CP

 Indicates stocked product.

Collective wiring end plate kits

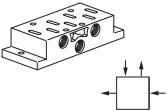
	Description	Port size	Order code
	Left & right ends modules with pressure & exhaust port, auxiliary port , and non collective wiring (only for PS551154CP) Size 02 / 01	G3/8	PS5631011P
	Left & right ends modules with pressure & exhaust port, auxiliary port , and SubD25 connection Size 02 / 01	G3/8	PS5620L21P
	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

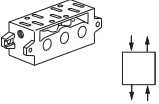
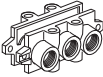
	Description	Order code
	32 output driver module for spare part	PSSV32A
	HA & HB 24 Out Cable Size 02 / 01	G3/8 PS5624P
	HA & HB 32 Out cable Size 02 / 01	G3/8 PS5632P
	25 pin female 25 pin SubD25 cable 3m	P8LMH25M3A

 Indicates stocked product.

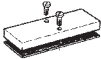
VDMA Side Ported Subbases


Description	Size	Port size	Weight	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	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-VM513E
	2 - 56mm	G1/2	0.36	P2N-WM514E
	3 - 71mm	G1	0.68	P2N-YM518E
<p>VDMA Isolation - Main galley According to VDMA According to VDMA According to VDMA Kit includes: (1) Isolator plug.</p>	1 - 43mm	G3/8	0.21	P2N-VK0P
	2 - 56mm	G1/2	0.36	P2N-WK0P
	3 - 71mm	G1	0.68	P2N-YK0P

Accessories


Description	Size	Port size	Weight	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

 Indicates stocked product.



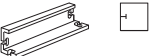
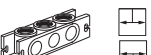

Side ported subbases

Description	Size	Port size	Weight	Order code BSP	Order code NPT
 Single subbase with side ports 1 3 5 2 4 ports & 12 14	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	


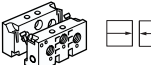
Bottom ported subbases

Description	Size	Port size	Weight	Order code BSP	Order code NPT
 Single subbase with side ports 1 3 5 2 4 ports & 12 14	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	Order code
 Manifold with bottom ports low profile	1 - 43mm	G1/4	0.2	P2N-AM512MB
 Connecting block Top or bottom ported connecting block for above manifold "low profile"	1 - 43mm	G3/8	0.15	P2N-AM513GT
 End End piece for above manifold "low profile"	1 - 43mm	no	0.06	P2N-AM500J
 Intermediate supply Top or bottom ported intermediate supply for above manifold "low profile"	1 - 43mm	G3/8	0.14	P2N-AM513BT
 Isolation plugs isolating seal for above manifold "low profile"	1 - 43mm		0.07	P2N-AK0P

Sizes 1 & 2 side ported manifold

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

 Indicates stocked product.


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		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


 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		
	Size 1	G1/2	PS4031011CP
	Size 2	G3/4	PS4131011CP
	Size 3	G3/4	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

 Indicates stocked product.

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.

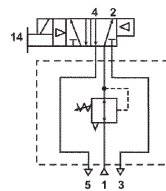


Description	Order code
Gauge kit	PS5651160P

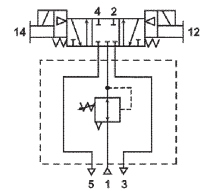
HB & HA Common Port Regulation

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

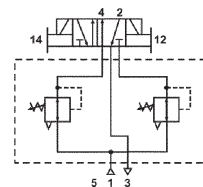
HB & HA Independent Port Regulation

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																																								
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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

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.

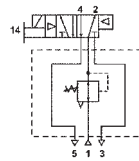


Description	Order code
Gauge kit	PS5651160P

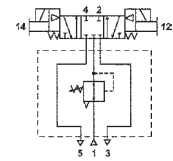
ISYS ISO 1 / 2 / 3 Common Port Regulation

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

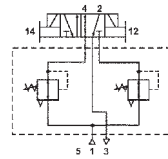
Dual Port Regulator or Single Port Regulator

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.

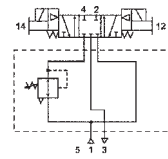


When using an independent Pressure Sandwich Regulator, the cylinder outlet ports are reversed. The 12 end energizes the #2 port. The 3-Position CE and PC functions are also reversed. (See schematics on right).

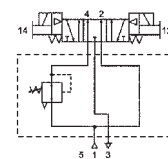
Independent dual port regulator with 4-way, 2-position double solenoid valve



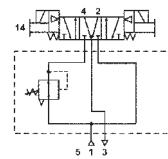
Independent port regulator with 4-way, 3-position all ports blocked valve



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



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



CAUTION: Requires 4-way, 3-position, cylinder to exhaust valve

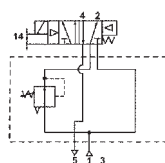


CAUTION: Requires 4-way, 3-position, cylinder to exhaust valve

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)

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



Plug-In
5599-2
Size 2 Shown

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				

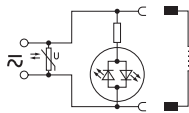
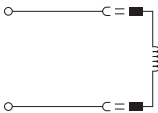
Note.

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.

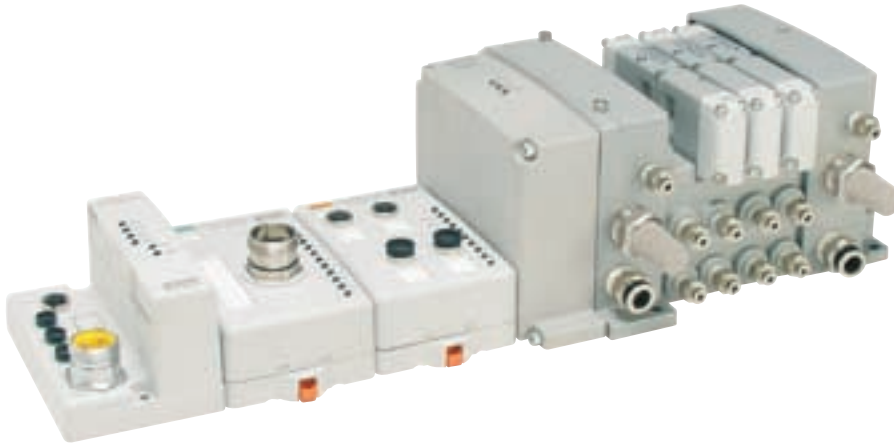
Solenoid Connectors / Cable Plugs EN175301-803

	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		
	24V DC LED and protection IP65	P8C-C26C		
	110V AC 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 110V AC	P8C-D21E	3EV10V20-110	3EV290V20-110
	With LED and protection 230V AC		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
	230V AC, 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

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.

ControlNet™

DeviceNet™

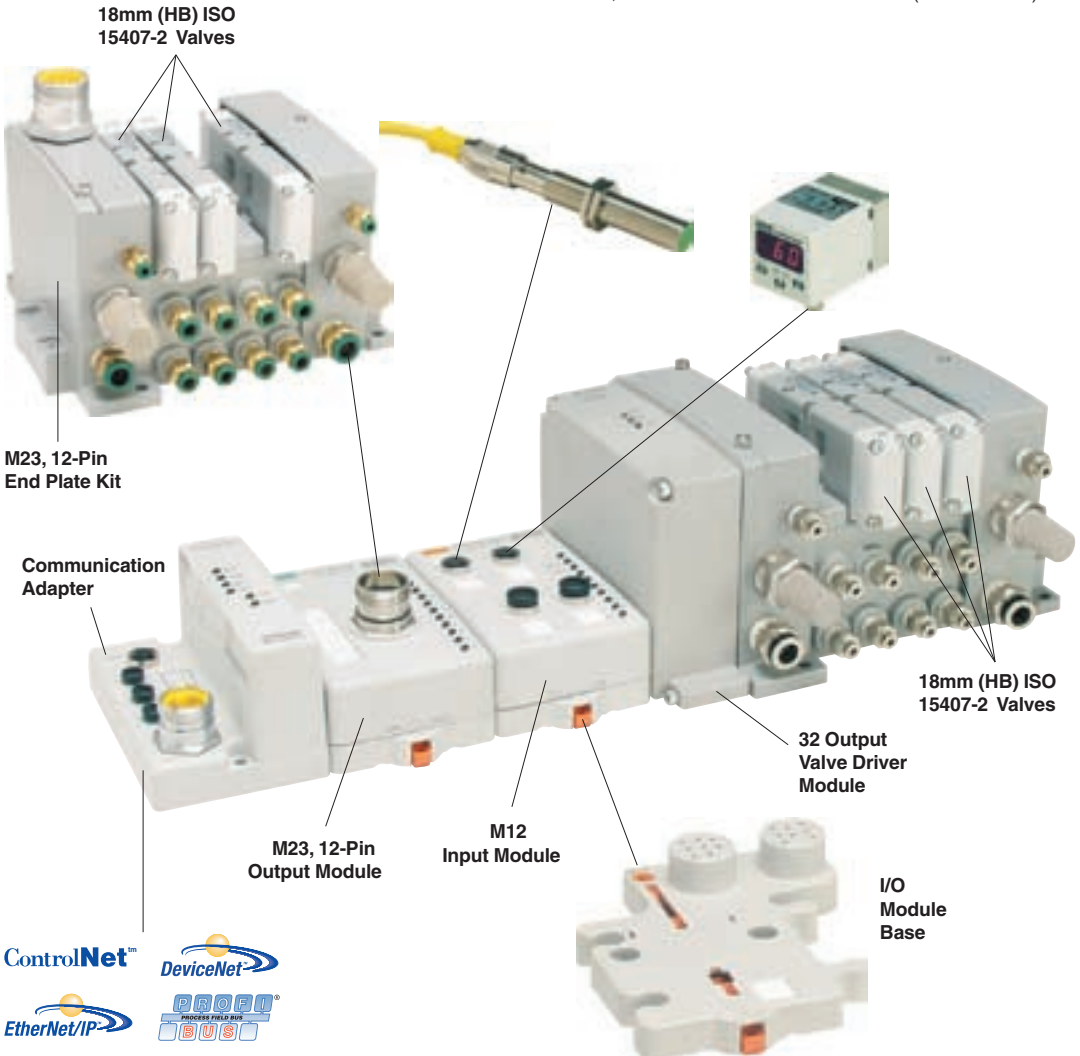
EtherNet/IP™

PROFI®
PROCESS FIELD BUS
BUS

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.

Communication Modules



PSSCENA

PSSCCNA

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

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

* 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	24VDC
--------------------------	-----------------	-------

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	24VDC
3 Meter Cable*	PSSEXT3	24VDC

* Requires a PSSSE24 Power Extender Module.

IP67 Certified

Reference the following Documents for Installation Instructions.
E117P

See www.parker.com/pneu/isysnet

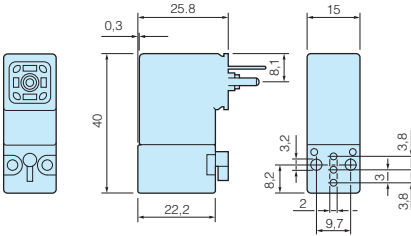


PSSEXT1

Solenoid dimensions

Cable Plug Dimensions (mm)

Solenoid operators P2E - 15mm

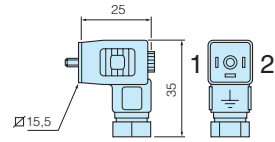


Solenoid operators P2F - CNOMO - 22 x 30mm



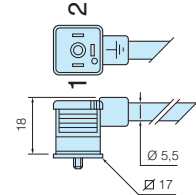
Cable plugs

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



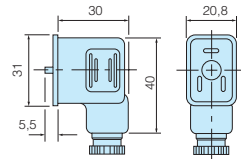
Cable plugs

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



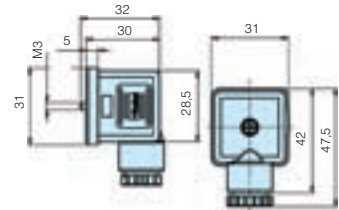
Cable plugs

- 3EV10V10



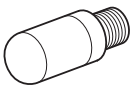
Cable plugs

- 3EV290V10



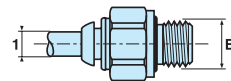
Accessories

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

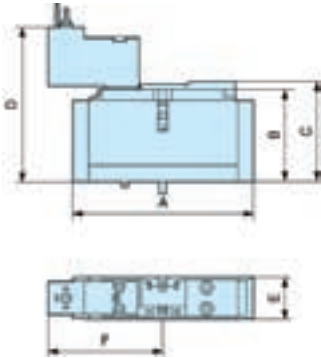
Fittings



Male connector - BSPP

Tube dia 1	Thread B	Ordercode	Box Qty
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

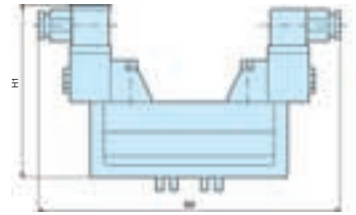
Isomax - Dimensions (mm)



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

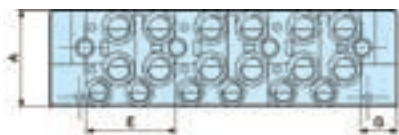
	G	G1	G2	G3	H	H1	I	L
Size 1	120	164	202,5	160	47	119	42	5
Size 2	140	179,5	218	175,5	58,5	130	54	5
Size 3	170	198	235,5	194	71	142,5	68	5

Single subbases side ported

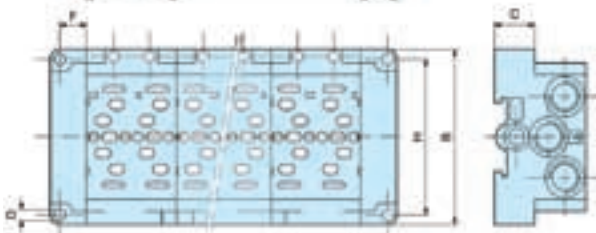


	Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T
PL02-01-70	02	80	70	16	G1/8	52	8	27	19	5,5	40	17	G1/8	M5	8	8	8	22	13	6
P2V-BS512SS	01	92	80	21,2	G1/8	68	6,5	42	27	5,5	55	22	G1/8	M5	6	11	17	28	14	21

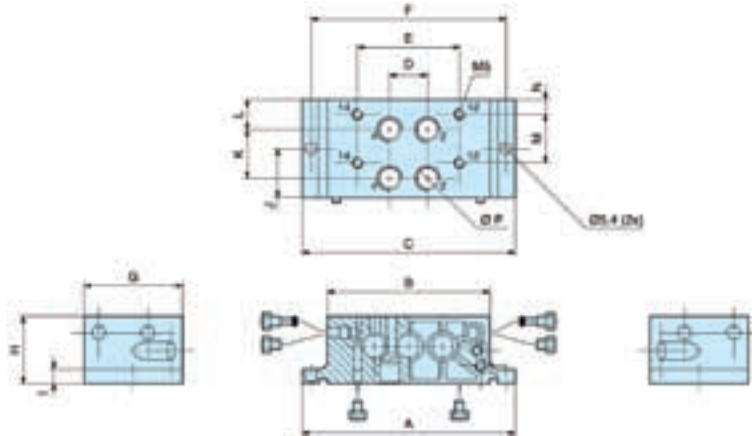
Side ported manifolds for 2 valve positions



	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

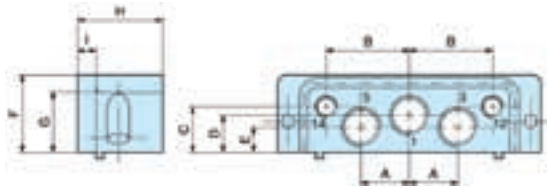


Bottom ported manifolds for 2 valve positions



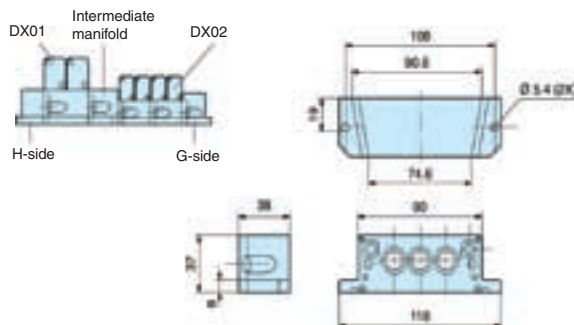
	Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
P2V-AM511PB	02	102	74	74,6	16	43	92	38	26	7	19	19	11	19	5	G1/8
P2V-BM512PB	01	118	90	90,6	21	56,5	108	54	37	8	27	27	16,5	27	8	G1/4

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



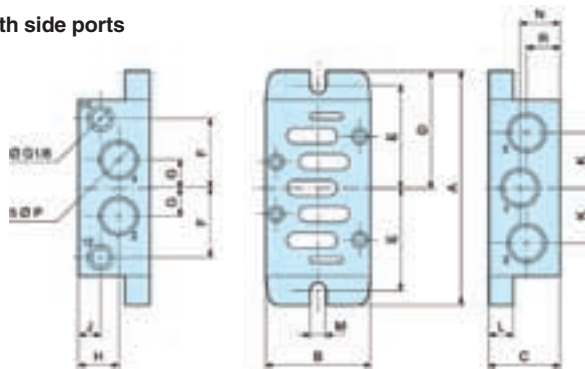
Dimensions

Single subbase with side ports according to VDMA



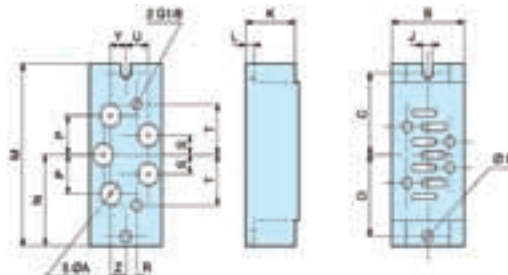
Order code	ISO Size	Port Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
P2N-VS512SD	1	G1/4	21,5	98	110	11	20	5,5	48	32	12	29	10	11	23	G1/4	G1/8
P2N-WS513S	2	G3/8	28	112	124	14	26	6,6	56	40	15	37	13	14	30	G3/8	G1/8
P2N-YS514SD	3	G1/2	34	136	149	17	17	6,6	71	32	16	45	18	17	22	G1/2	G1/8

Single subbase with side ports



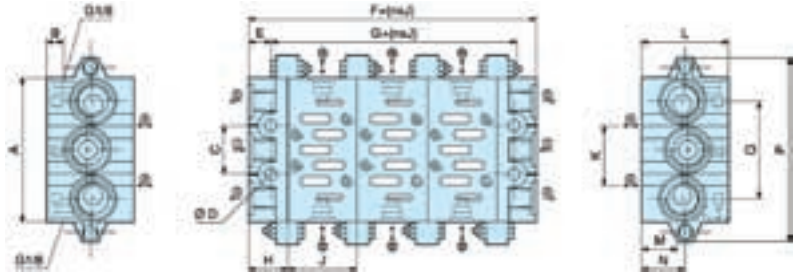
Order code	ISO Size	ØP	A	B	C	D	E	F	G	H	J	K	L	M	N	R
PL1-1/4-70	1	G1/4	110	46	29	55	49	30	11	17,75	17,75	22	6	5,5	17,75	17,75
PL2-3/8-70	2	G3/8	124	56	37	62	55	37	14,5	22,5	14	28	6	5,5	22,5	14,5
P2N-JS516SD	3	G3/4	149	71	60	74,5	68	45	21	33	10	40	18	6,6	37,5	22,5

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)



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..)

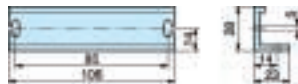
Manifold P2N-AM512MB



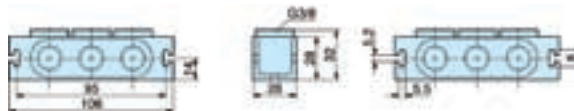
Connecting block P2N-AM513GT



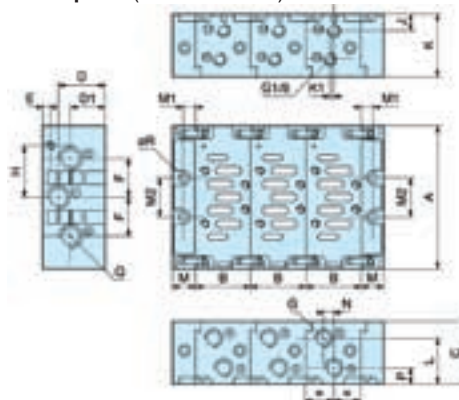
End piece P2N-AM500J



Intermediate supply P2N-AM513BT



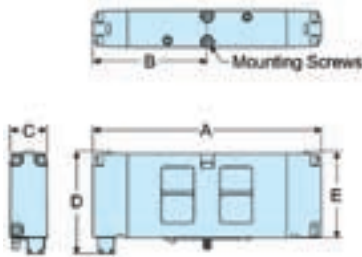
Manifold and end plates with side ports (P2N-EM / FM..)



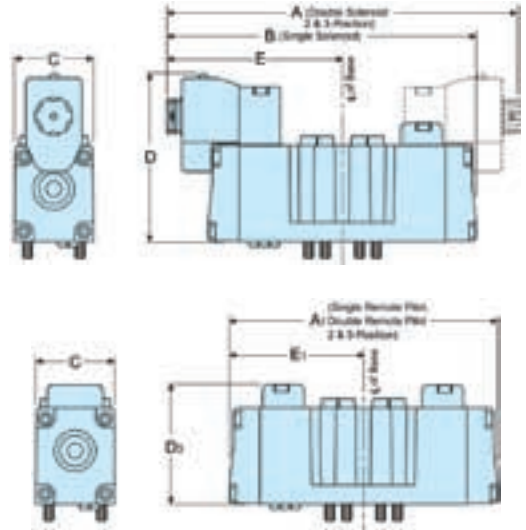
Order code	A	B	C	D	D1	E	F	G	H	J	K	K1	L	M	M1	M2	N	P	Q	R
P2N-EM ...	110	43	48	35,5	26,5	5,5	28	G1/4	36	15,5	35	3	32	20	11	28	12	12,5	G3/8	6
P2N-FM ...	129	56	60	44,5	35,5	6	34,5	G3/8	45	16	41,5	3	41	24	13	35	12,5	16	G1/2	8

Isysnet Field Bus System - Dimensions

15407-2 Series Valves



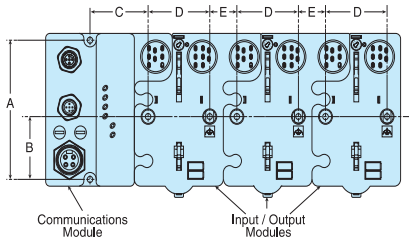
H1 / H2 / H3 Series Valves 5599-2



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

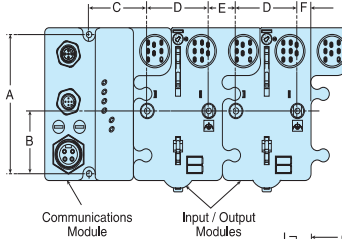
	A	A ₁	B	C	D	D ₁	D ₂	D ₃	D ₄	E	E ₁
H1	186	142	164	42	90	109	109	63.5	63	93	71
H2	212	168	190	55	103	122	116	76		106	84
H3	241	177	209	55	103	122	116	76		121	89

Isysnet Field Bus System - Dimensions



HB-HA

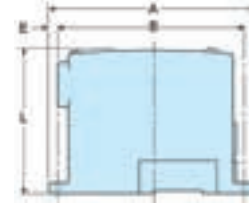
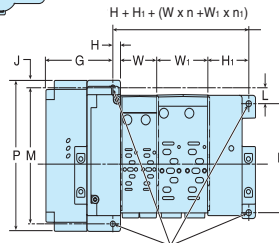
A	B	C	D	E	F
102	46	48	51	22	11



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

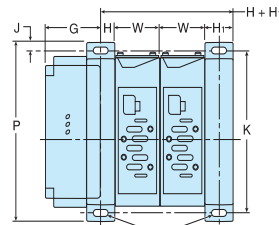
HB-HA

A	B	E	L	G	H
152	137	7,5	106	68	8,4
H ₁	J	K	L	M	P
45,8	4	110	16	137	152
W	W ₁				
40,8	56,8				



H1

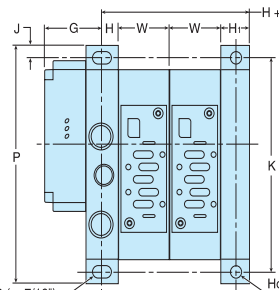
G	H	H ₁	J	K
56	15,9	15,9	8,5	165
P	W			
182	49			



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

H2

G	H	H ₁	J	K
58	8,4	15	12	215
P	W			
239	56			

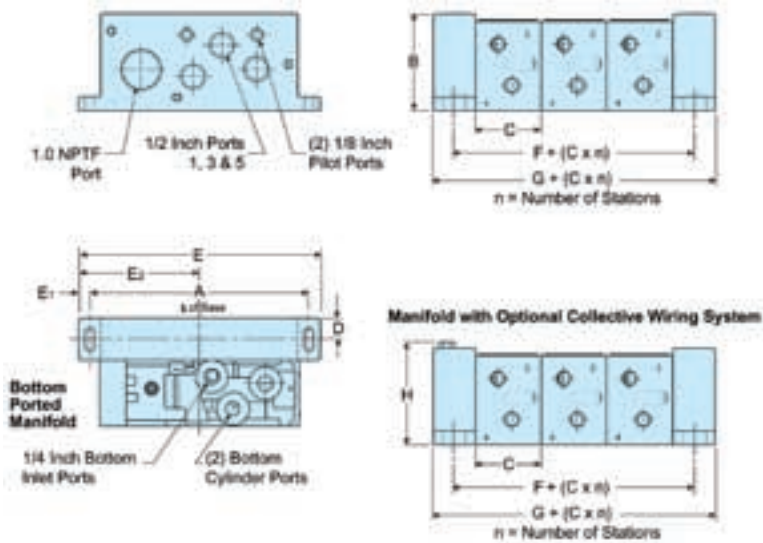


n = Number of H2 / H3 Bases
 W = Width of H2 / H3 Bases

H3

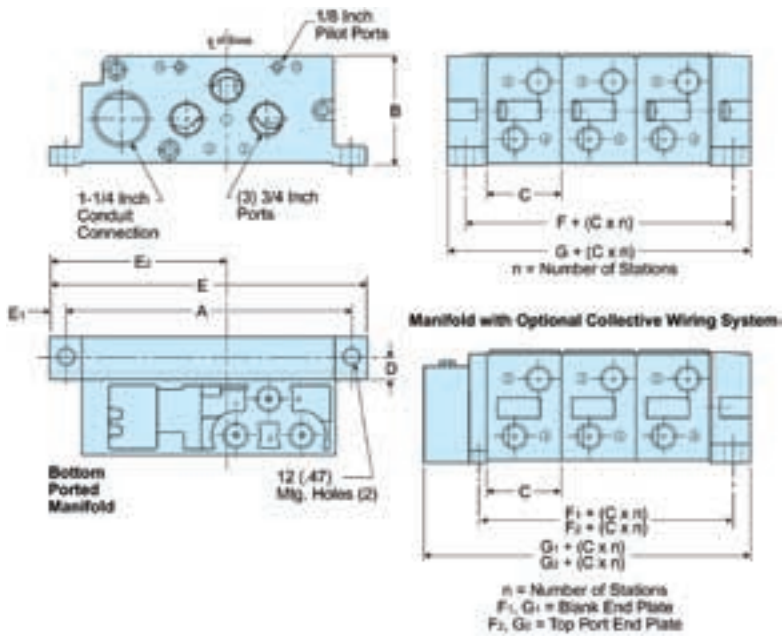
G	H	H ₁	J	K
64	24	16,5	15	265
P	W			
295	71			

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

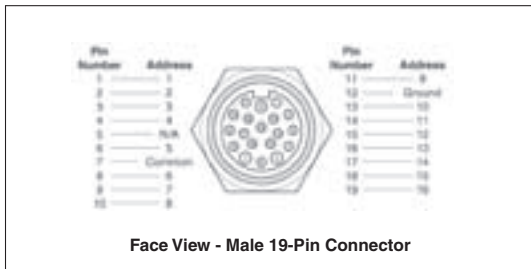
Interconnect Circuit Boards

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

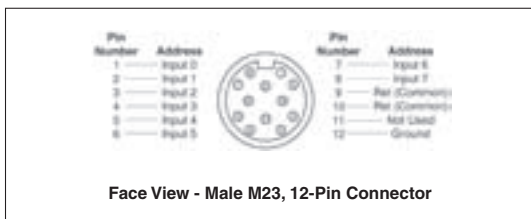
Common Pin "7" is rated for 8 amps. Cable common wire must be greater than total amperage of solenoids on Add-A-Fold assembly.

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.

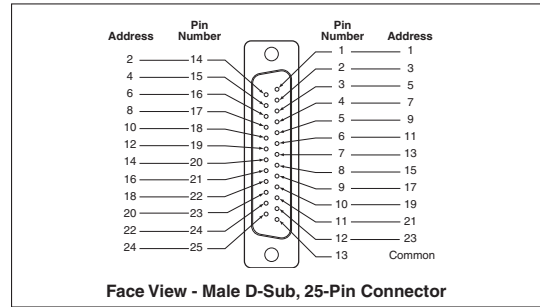
Brad Harrison #333030P80M050 16.40 ft. (Female to Male Cable)

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

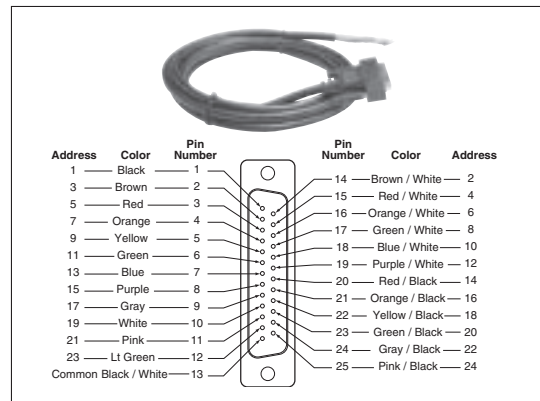
M23, 12-Pin Round Connector (Male)



25-Pin, D-Sub Connector (Male)



25-Pin, D-Sub Cable (Female)

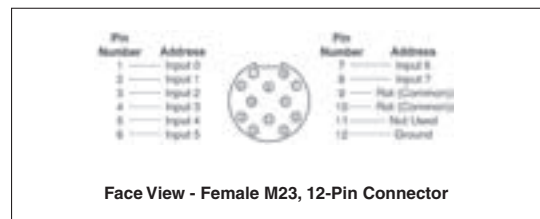


25-Pin, D-Sub Cable Specifications

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)



The Viking Xtreme valve range is robust, versatile and combines high performance with compact installation dimensions. Large flow capacity, short change-over times and low change-over pressure are important characteristics of this valve range.



- 4 sizes: G1/8, G1/4, G3/8 and G1/2.
- Wide operating temperature range
- Compact design with good corrosion resistance.
- Wide range of 5/2 and 5/3 versions.
- High and low temperature versions available for transport applications.

Operating information

	P2L-AX	P2L-BX	P2L-CX	P2L-DX
Working pressure:	16 bar	16 bar	12 bar	12 bar
Working temperature, standard				
Air pilot solenoid		-40 °C to +60 °C		
Standard and food version		-10 °C to +50 °C		
Mobile version		-40 °C to +60 °C		
Flow (Qmax):	P2L-AX 19,0 l/s	P2L-BX 38,0 l/s	P2L-CX 72,0 l/s	P2L-DX 78,0 l/s

Pneumatically actuated 5/2 and 5/3 valves

Symbol	Size	Actuator	Return	Order code
	G1/8 G1/4 G3/8 G1/2	Air pilot	Air pilot	P2LAX511PP P2L BX512PP P2L CX513PP P2L DX514PP
	G1/8 G1/4 G3/8 G1/2	Air pilot	Spring	P2LAX511PS P2L BX512PS P2L CX513PS P2L DX514PS
	G1/8 G1/4 G3/8 G1/2	Air pilot Closed centre	Air pilot Self centring	P2LAX611PP P2L BX612PP P2L CX613PP P2L DX614PP
	G1/8 G1/4 G3/8 G1/2	Air pilot Vented centre	Air pilot Self centring	P2LAX811PP P2L BX812PP P2L CX813PP P2L DX814PP
	G1/8 G1/4 G3/8 G1/2	Air pilot Pressure centre	Air pilot Self centring	P2LAX711PP P2L BX712PP P2L CX713PP P2L DX714PP






Lever actuated 5/2 and 5/3 valves

Symbol	Size	Actuator	Return	Order code
	G1/8	Lever	Lever	P2LAX511VV
	G1/8	Lever	Spring	P2LAX511VS
	G1/8	Lever	Lever	P2LAX61122
	G1/8	Lever	Lever	P2LAX81122
	G1/8	Lever	Lever	P2LAX61111
	G1/8	Lever	Lever	P2LAX81111



Electrically actuated 5/2 and 5/3 valves - 15mm solenoid




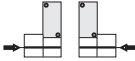

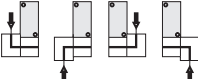



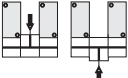

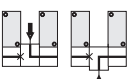


Symbol	Size	Actuator	Return	Order code 15mm solenoid with 24 VDC sol	Order code without 15mm solenoid
	G1/8 G1/4 G3/8 G1/2	Solenoid	Solenoid	P2LAX511EENXB549 P2L BX512EENXB549 P2L CX513EENXB549 P2L DX514EENXB549	P2LAX511EENXXX P2L BX512EENXXX P2L CX513EENXXX P2L DX514EENXXX
	G1/8 G1/4 G3/8 G1/2	Solenoid	Spring	P2LAX511ESNXB549 P2L BX512ESNXB549 P2L CX513ESNXB549 P2L DX514ESNXB549	P2LAX511ESNXXX P2L BX512ESNXXX P2L CX513ESNXXX P2L DX514ESNXXX
	G1/8 G1/4 G3/8 G1/2	Solenoid Closed centre	Solenoid Self centring	P2LAX611EENXB549 P2L BX612EENXB549 P2L CX613EENXB549 P2L DX614EENXB549	P2LAX611EENXXX P2L BX612EENXXX P2L CX613EENXXX P2L DX614EENXXX
	G1/8 G1/4 G3/8 G1/2	Solenoid Vented centre	Solenoid Self centring	P2LAX811EENXB549 P2L BX812EENXB549 P2L CX813EENXB549 P2L DX814EENXB549	P2LAX811EENXXX P2L BX812EENXXX P2L CX813EENXXX P2L DX814EENXXX
	G1/8 G1/4 G3/8 G1/2	Solenoid Pressure centre	Solenoid Self centring	P2LAX711EENXB549 P2L BX712EENXB549 P2L CX713EENXB549 P2L DX714EENXB549	P2LAX711EENXXX P2L BX712EENXXX P2L CX713EENXXX P2L DX714EENXXX

Electrically actuated 5/2 and 5/3 valves - 22mm solenoid

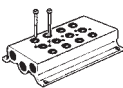






Symbol	Size	Actuator	Return	Order code 22mm solenoid 24 VDC	Order code Without solenoid coil		
	G1/8	Solenoid	Solenoid	P2LAX511EENDB49	P2LAX511EENDDN		
	G1/4			P2LBX512EENDB49	P2LBX512EENDDN		
	G3/8			P2LCX513EENDB49	P2LCX513EENDDN		
	G1/2			P2LDX514EENDB49	P2LDX514EENDDN		
	G1/8	Solenoid	Spring	P2LAX511ESNDB49	P2LAX511ESNDDN		
	G1/4			P2LBX512ESNDB49	P2LBX512ESNDDN		
	G3/8			P2LCX513ESNDB49	P2LCX513ESNDDN		
	G1/2			P2LDX514ESNDB49	P2LDX514ESNDDN		
	G1/8	Solenoid	Solenoid	P2LAX611EENDB49	P2LAX611EENDDN		
	G1/4			Closed	Self	P2LBX612EENDB49	P2LBX612EENDDN
	G3/8			centre	centring	P2LCX613EENDB49	P2LCX613EENDDN
	G1/2					P2LDX614EENDB49	P2LDX614EENDDN
	G1/8	Solenoid	Solenoid	P2LAX811EENDB49	P2LAX811EENDDN		
	G1/4			Vented	Self	P2LBX812EENDB49	P2LBX812EENDDN
	G3/8			centre	centring	P2LCX813EENDB49	P2LCX813EENDDN
	G1/2					P2LDX814EENDB49	P2LDX814EENDDN
	G1/8	Solenoid	Solenoid	P2LAX711EENDB49	P2LAX711EENDDN		
	G1/4			Pressure	Self	P2LBX712EENDB49	P2LBX712EENDDN
	G3/8			centre	centring	P2LCX713EENDB49	P2LCX713EENDDN
	G1/2					P2LDX714EENDB49	P2LDX714EENDDN

Electrically actuated 5/2 - Xtreme duty 16 bar - 40°C to +60°C. P2LAX/P2LBX 16 bar and P2LCX/P2LDX 12 bar


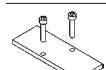
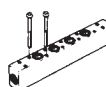

Symbol	Size	Actuator	Return	Order code 22mm solenoid 24 VDC	Order code Without solenoid coil	
	G1/8	Solenoid	Solenoid	P2LAX511EEHDB49	P2LAX511EEHDDN	
	G1/4			Low temp.	P2LBX512EEHDB49	P2LBX512EEHDDN
	G3/8				P2LCX513EEHDB49	P2LCX513EEHDDN
	G1/2				P2LDX514EEHDB49	P2LDX514EEHDDN
	G1/8	Solenoid	Spring		P2LAX511ESHDB49	P2LAX511ESHDDN
	G1/4			Low temp.	P2LBX512ESHDB49	P2LBX512ESHDDN
	G3/8				P2LCX513ESHDB49	P2LCX513ESHDDN
	G1/2				P2LDX514ESHDB49	P2LDX514ESHDDN

Accessories P2LAX	Connection alternatives	Type	Weight kg	Order code
		Multiple manifold including seals, mounting screws, and guiding pins.	0,11	9121658060
		Connection block S including seals, mounting screws, and guiding pins. G1/4	0,15	9121658064
		Connection block L including seals, mounting screws, and guiding pins. G1/4	0,15	9121658061
		End cover including seals, mounting screws, and guiding pins.	0,16	9121658066
		Intermediate block T including seals, mounting screws, and guiding pins. G1/4	0,17	9121658062
		Intermediate block L including seals, mounting screws, and guiding pins. G1/4	0,17	9121658065
		Blanking plate including seals, mounting screws.	0,05	9121658063

Accessories P2LAX

Type	Weight kg	Order code
 Manifold bar, P2LA including seals, mounting screws. G3/8 For 4 valves 0,48 For 6 valves 0,63 For 8 valves 0,80 For 10 valves 0,98 For 12 valves 1,10 For 14 valves 1,23		9121658075 9121658076 9121658077 9121658078 9121658079 9121658099
 Blanking plate, P2LA for Manifold bar	0,05	9121658063
 Pressure bar, P2LA for common air supply incl. O-rings and mounting screws. G1/4 For 2 valves 0,13 For 4 valves 0,20 For 6 valves 0,26 For 8 valves 0,33		9121658070 9121658071 9121658072 9121658073
 Blanking plate, P2LA for Pressure bar	0,05	9121658074
 Assembly screws, P2LA in stainless steel for valve	0,02	9121658043
 Assembly screws, P2LA in stainless steel for blanking plate	0,01	9121658044
 O-ring kit, P2LA O-rings between valve and manifold bar/ Pressure bar	0,01	9121658046

Accessories P2LBX

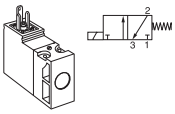
Type	Weight kg	Order code
 Manifold bar, P2LB, (not for P2LB with external air supply to solenoid valves) incl. fasteners and O-ring. G3/8 For 2 valves 0,69 For 4 valves 1,13 For 6 valves 1,56 For 8 valves 2,00 For 10 valves 2,45		9121594805X 9121594806X 9121594807X 9121594808X 9121594812X
 Blanking plate, P2LB for Manifold bar	0,10	9121594809X
 Pressure bar, P2LB for common air supply incl. O-rings and banjo-bolts. G3/8 For 2 valves 0,38 For 4 valves 0,53 For 6 valves 0,68 For 8 valves 0,83 For 10 valves 0,99		9127113301X 9127113302X 9127113303X 9127113304X 9127113305X
 Blanking plug, P2LB for Pressure bar. G1/4	0,02	9127113306X

Solenoid Operators - 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 Without manual override	Weight Kg	Order code Override, blue, non locking flush	Weight Kg	Order code 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






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

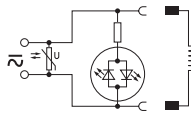
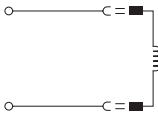
Solenoid coils for 22mm solenoid operators

Voltage	Order code Form B	Weight (Kg)
12V 60Hz	P2FCB440	0.093
24V 50/60Hz	P2FCB442	0.093
12V DC	P2FCB445	0.093
12V DC Mobile	P2FCB447	0.093
24v DC Mobile	P2FCB448	0.093
24V DC	P2FCB449	0.093
48V DC	P2FCB451	0.093
110V/50Hz, 120V/60Hz	P2FCB453	0.093
230V/50Hz, 230V/60Hz	P2FCB457	0.093

Note: Mobile solenoids are only suitable for Viking Xtreme valves with 'H' specification having 0,8/1,0 operator type P2FP13H4D

Solenoid Connectors / Cable Plugs EN175301-803

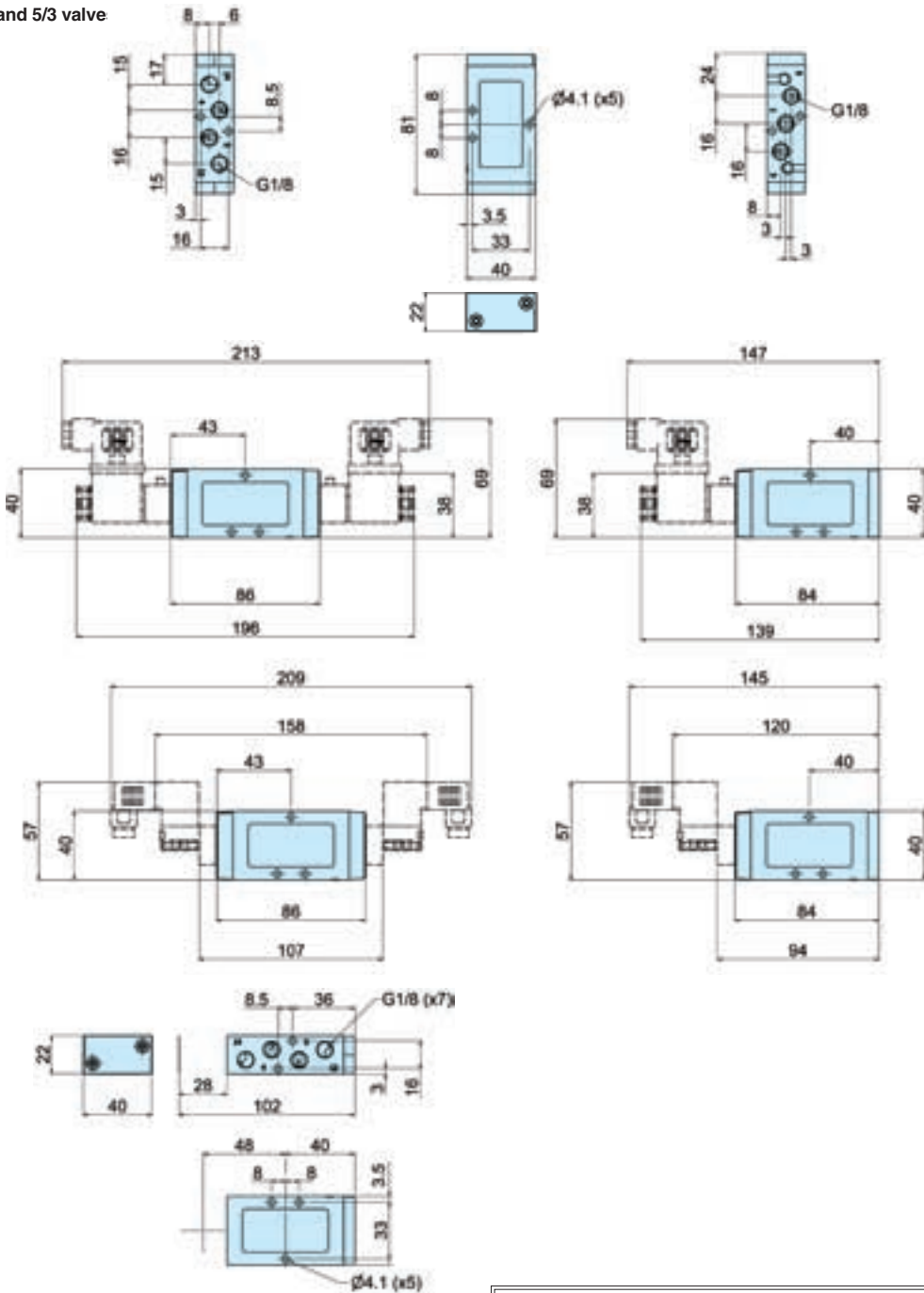
	Description	Order code 15mm Form C/ISO15217	Order code 22mm Industrial Form B
With large headed screw suitable for mounting in inaccessible or recess position 	Standard IP65	P8C-C	
	24V DC LED and protection IP65	P8C-C26C	
	110V AC LED and protection IP65	P8C-C21E	
With standard screw 	Standard IP65 without flying lead	P8C-D	3EV10V10
	With LED and protection 24V AC/DC	P8C-D26C	3EV10V20-24
	With LED and protection 110V AC	P8C-D21E	3EV10V20-110
	With LED and protection 230V AC		3EV10V20-230
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
	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
	230V AC, 5m cable LED and protection IP65		3EV10V20-230L5



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

Dimensions

P2LAX... all
5/2 and 5/3 valve

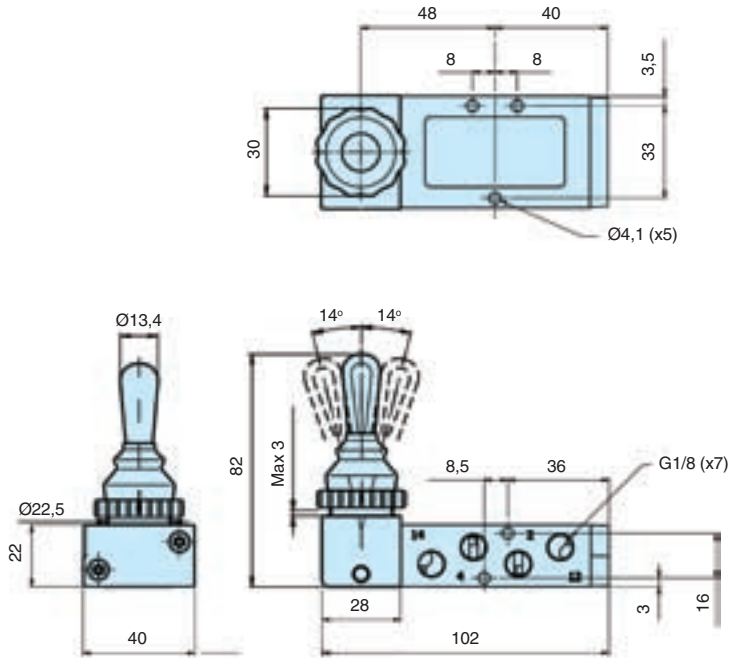


Solenoid valves

Solenoid valves and cable plugs must be ordered separately.
One pilot valve is required for each E in the valve order code.

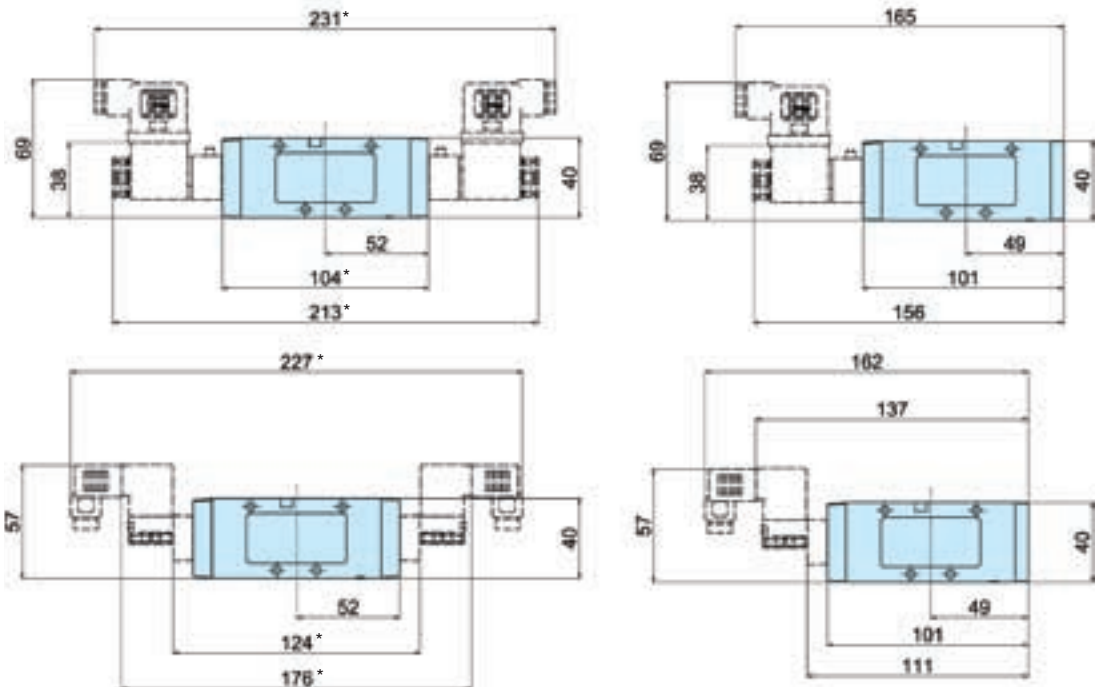
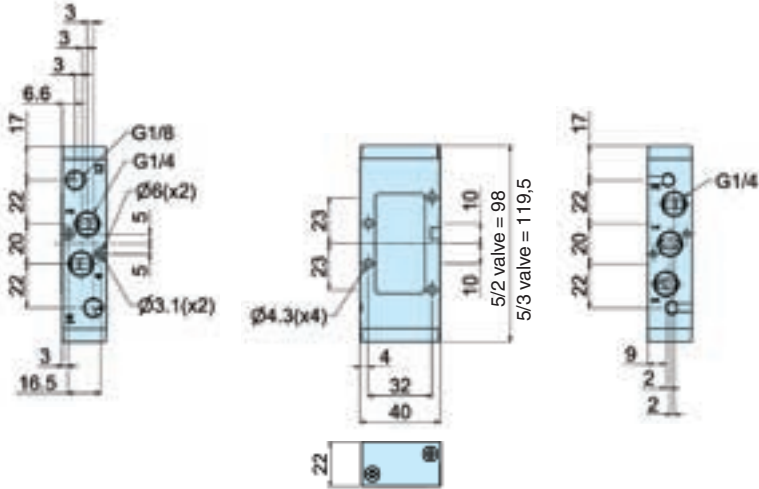
Dimensions

P2LAX - Lever operated directional control valves



Dimensions

P2LBX... all
5/2 and 5/3 valves



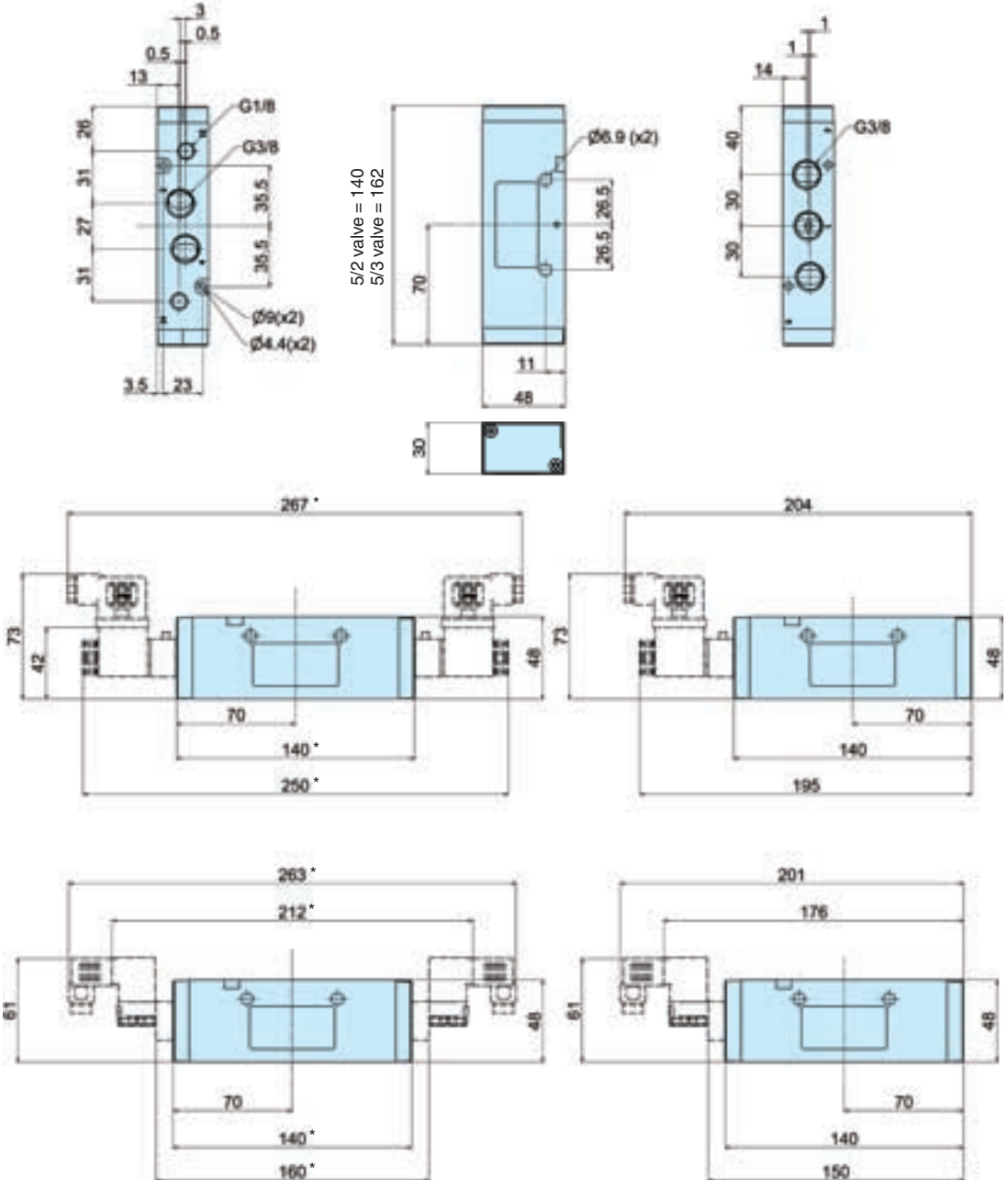
* Note: 5/3 valves - add 21.5mm

Solenoid valves

Solenoid valves and cable plugs must be ordered separately.
One pilot valve is required for each E in the valve order code.

Dimensions

P2LCX... all
5/2 and 5/3 valves

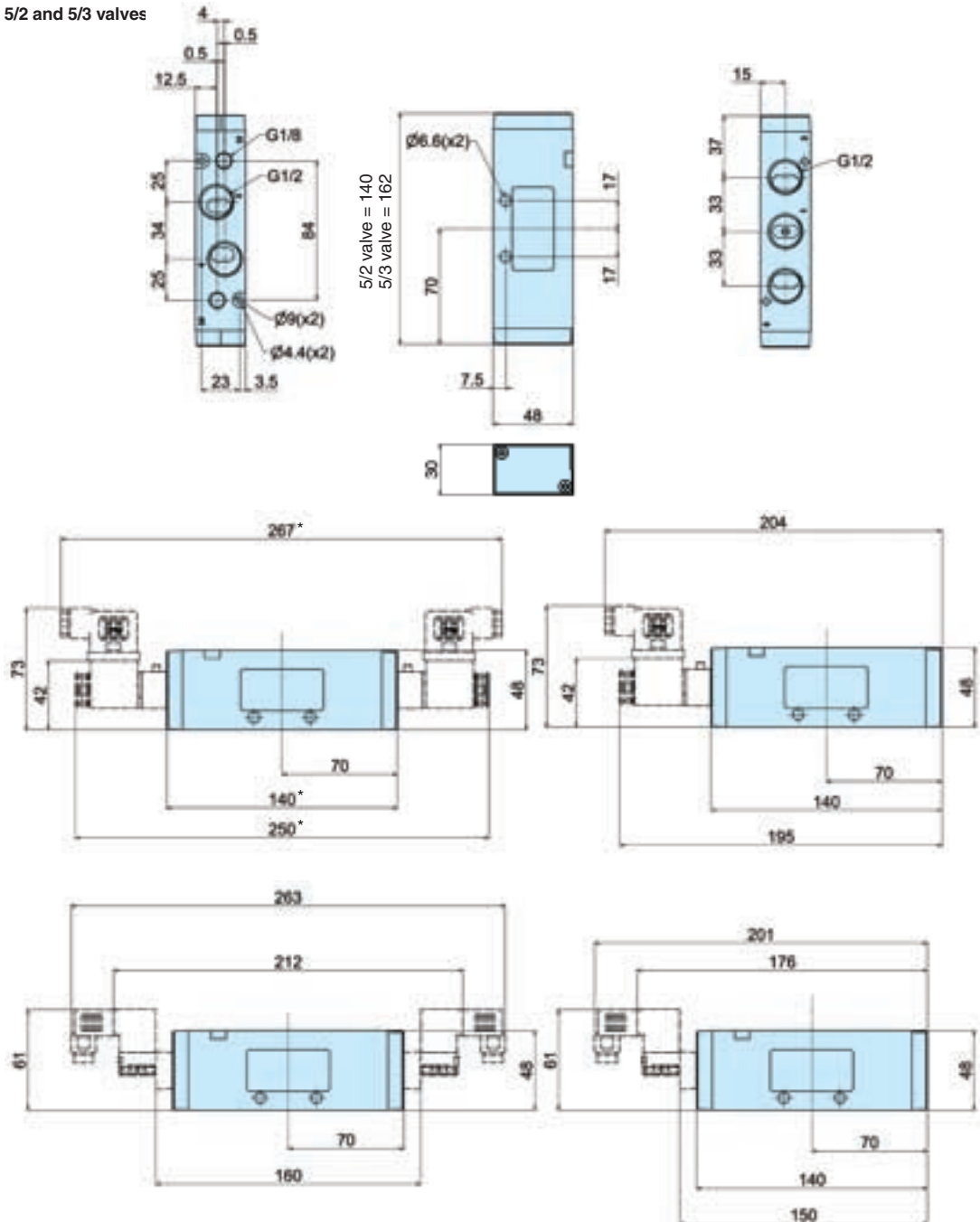


* Note: 5/3 valves - add 22.0mm

Solenoid valves
Solenoid valves and cable plugs must be ordered separately.
One pilot valve is required for each E in the valve order code.

Dimensions

P2LDX... all
5/2 and 5/3 valves

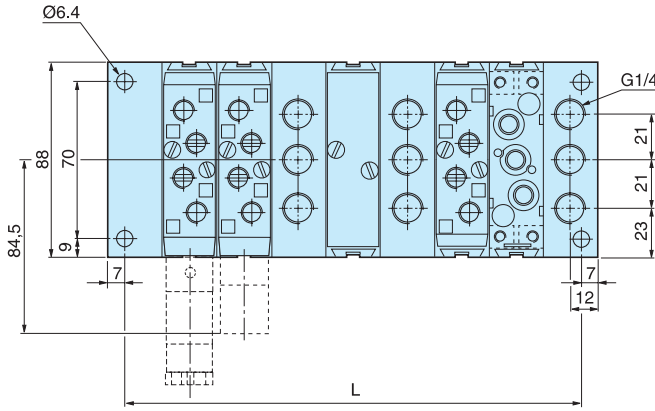


* Note: 5/3 valves - add 22.0mm

Solenoid valves

Solenoid valves and cable plugs must be ordered separately.
One pilot valve is required for each E in the valve order code.

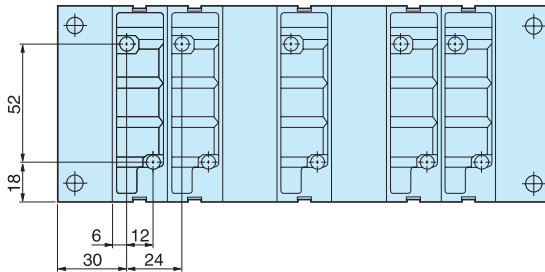
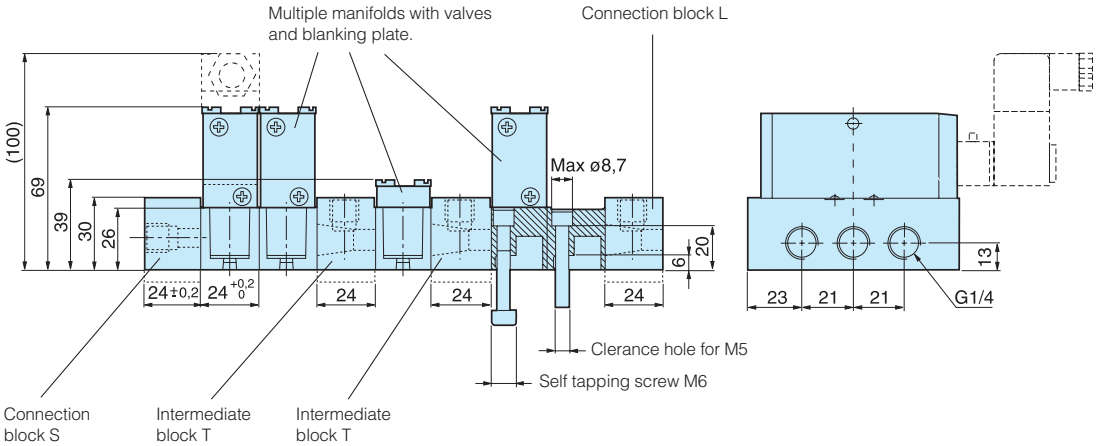
Dimensions



$$L = 34 + (\text{Number of manifolds and Intermediate blocks} \times 24)$$

Connection block L and intermediate blocks L and T can be turned so that connection can be made from above or below.

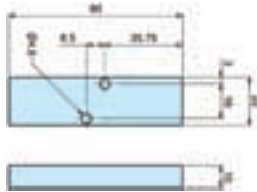
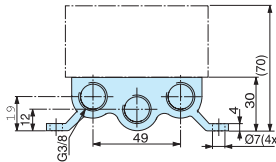
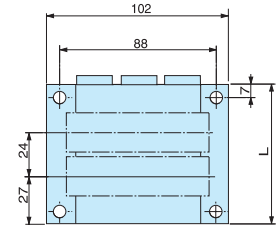
Multiple manifolds must be fitted with the top indication line (a 10 mm long line) facing the same side on all manifolds.



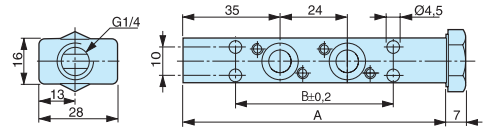
Dimensions

Manifold bar, P2LA

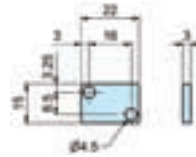
No. of valves	L mm
4	126
6	174
8	222
10	270
12	318
14	366



Pressure bar, P2LA

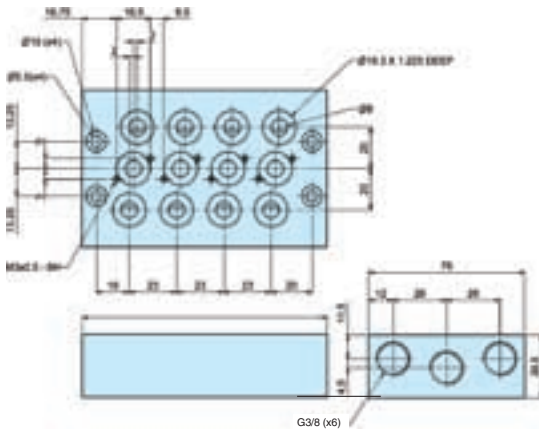


Pressure bar, P2LA

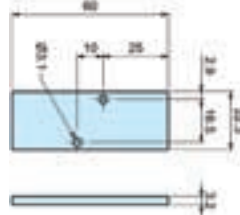


No. of valves	A mm	B mm
2	94	56
4	142	104
6	190	152
8	238	200

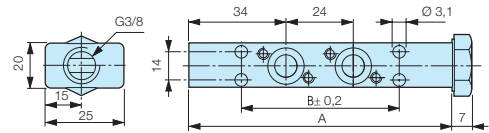
Manifold bar, P2LB



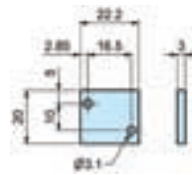
No. of valves	L mm
2	74
4	122
6	170
8	218
10	266



Pressure bar, P2LB



Blanking plug, P2LB



No. of valves	A mm
2	92
4	140
6	188
8	236
10	284

B Series high performance industrial valves

High performance metal bodied industrial valves with air pilot or solenoid actuation. Featuring the 'Wear Compensating Seal System' these valves have integral mounting holes and an inlet exhaust manifold option.



- 3 sizes: 1/8", 1/4" and highflow 1/4"
- Compact size
- Inlet-exhaust-mounting facility
- Fast response, high flow
- Integrated mounting holes
- Wear compensating seal system
- DIN rail mountable manifolds

Operating information

Working pressure	1,5 to 10 bar
Working temperature	-10 °C to +50 °C
Port size	B3 : G1/8, B4 : G1/4, B5 : G1/4
Flow (Qn):	B3 960 l/min
	B4 1170 l/min
	B5 1440 l/min

For technical information see CD

Main data for Directional control valves, B3 Series

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Pneumatically actuated 3/2 valves								
	Air	Differential air	1,4/-	16/17	0,07		B3K5000XXH	1
	Air	Spring return	3,0/-	20/18	0,07		B3U5000XXH	1
	Air	Air	1,4/-	2/2	0,08		B3M5000XXH	1
Pneumatically actuated 5/2 and 5/3 valves								
	Air	Differential air	1,4/-	16/17	0,09		B335000XXH	1
	Air	Spring return	3,0/-	20/18	0,09		B3P5000XXH	1
	Air	Air	1,4/1,4	2/2	0,10		B345000XXH	1
	Air	Air	3,0/3,0	12/12	0,10		B385000XXH	1
	Closed centre	Self centring position						
	Air	Air	3,0/3,0	12/12	0,10		B395000XXH	1
	Vented centre	Self centring position						
	Air	Air	3,0/3,0	12/12	0,10		B305000XXH	1
	Pressurised	Self centring centre position						




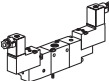



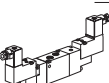
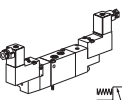


* Solenoid and cable plug (must be ordered separately see next page)

** 2 Solenoids and cable plugs (must be ordered separately see next page)

Indicates stocked product.

B Series high performance industrial valves

Main data for Directional control valves, B3 Series (G1/8 threaded ports)

















Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Electrically actuated 3/2 valves								
	Electric	Differential air	1,4/-	12/14	0,12	24 VDC	B3G5BB549H	1
							B3G5BXXXXH	1
	Electric	Spring return	3,0/-	22/28	0,12	24 VDC	B3R5BB549H	1
							B3R5BXXXXH	1
	Electric	Air	1,4/1/4	9/3	0,13	24 VDC	B3S5BB549H	1
							B3S5BXXXXH	1
	Electric	Electric	1,4/1/4	8/8	0,13	24 VDC	B3J5BB549H	1
							B3J5BXXXXH	1
Electrically actuated 5/2 valves								
	Electric	Differential	1,4/-	12/14	0,12	24 VDC	B315BB549H	1
							Air	Air
	Electric	Spring return	3,0/-	22/28	0,12	24 VDC	B3T5BB549H	1
							B3T5BXXXXH	1
	Electric	Air	1,4/1/4	9/3	0,14	24 VDC	B3A5BB549H	1
							B3A5BXXXXH	1
	Electric	Electric	1,4/1/4	8/8	0,19	24 VDC	B325BB549H	1
							B325BXXXXH	1
Electrically actuated 5/3 valves								
	Electric	Electric	3,0/3,0	12/12	0,18	24 VDC	B355BB549H	1
							Closed centre position	Self centring
	Electric	Electric	3,0/3,0	12/12	0,18	24 VDC	B365BB549H	1
							Vented centre position	Self centring
	Electric	Electric	3,0/3,0	12/12	0,10	24 VDC	B375BB549H	1
							Pressurised centre position	Self centring

Internal air supply to differential pilots and solenoids via port 1

Valves supplied with solenoid operators include standard P8C-D connector

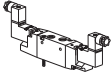

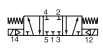
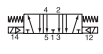

B Series high performance industrial valves

Main data for Directional control valves, B4 Series (G1/4 threaded ports)

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Pneumatically actuated 3/2 valves								
	Air	Differential air	1,5/-	34/45	0,163		B4K6000XXF	1
	Air	Spring return	3,0/-	32/48	0,16		B4U6000XXF	1
	Air	Air	1,5/1,5	15/17	0,177		B4M6000XXF	1
Pneumatically actuated 5/2 and 5/3 valves								
	Air	Differential air	1,5/-	34/45	0,184		B436000XXF	1
	Air	Spring return	3,0/-	32/48	0,19		B4P6000XXF	1
	Air	Air	1,5/1,5	15/17	0,198		B446000XXF	1
	Air	Air	3,0/3,0	16/19	0,204		B486000XXF	1
	Closed centre	Self centring position						
	Air	Air	3,0/3,0	16/19	0,204		B496000XXF	1
	Vented centre	Self centring position						
	Air	Air	3,0/3,0	16/19	0,204		B406000XXF	1
	Pressurised	Self centring centre position						
Electrically actuated 3/2 valves								
	Electric	Differential air	1,5/-	34/45	0,206	24 VDC	B4G6AB549F	1
					0,157	Less solenoid	B4G6AXXXXF	1
	Electric	Spring return	3,0/-	36/40	0,210	24 VDC	B4R6AB549F	1
					0,161	Less solenoid	B4R6AXXXXF	1
	Electric	Air	1,5/1,5	15/17	0,220	24 VDC	B4S6AB549F	1
					0,170	Less solenoid	B4S6AXXXXF	1
	Electric	Electric	1,5/1/5	15/17	0,262	24 VDC	B4J6AB549F	1
					0,164	Less solenoid	B4J6AXXXXF	1
Electrically actuated 5/2 valves								
	Electric	Differential	1,5/-	34/45	0,227	24 VDC	B416AB549F	1
	Air	Air			0,178	Less solenoid	B416AXXXXF	1
	Electric	Spring return	3,0/-	36/40	0,227	24 VDC	B4T6AB549F	1
	Air				0,178	Less solenoid	B4T6AXXXXF	1
	Electric	Air	1,5/1/5	15/17	0,241	24 VDC	B4A6AB549F	1
					0,192	Less solenoid	B4A6AXXXXF	1

B Series high performance industrial valves

Main data for Directional control valves, B4 Series (G1/4 threaded ports)








Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Electrically actuated 5/2 and 5/3 valves								
 	Electric	Electric	1,5/1,5	15/15	0,283	24 VDC	B426AB549F	1
						0,185	Less solenoid	B426AXXXF
	Electric	Electric	3,0/3,0	16/18	0,289	24 VDC	B456AB549F	1
	Closed centre position	Self centring				0,191	Less solenoid	B456AXXXF
	Electric	Electric	3,0/3,0	16/18	0,289	24 VDC	B466AB549F	1
	Vented centre position	Self centring				0,191	Less solenoid	B466AXXXF
	Electric	Electric	3,0/3,0	16/18	0,289	24 VDC	B476AB549F	1
	Pressurised centre position	Self centring				0,191	Less solenoid	B476AXXXF

Internal air supply to differential pilots and solenoids via port 1

Valves supplied with solenoid operators include standard P8C-D connector

B Series high performance industrial valves

Main data for Directional control valves, B5 Series (G1/4 threaded ports)

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Electrically actuated 3/2 valves								
	Electric	Air/Spring Assisted	2,4/2,4	24/26		24 VDC Less solenoid coil	B5V6BCB49C B5V6BCNXXC	1 1
	Electric	Electric	1,5/1/5	15/17		24 VDC Less solenoid coil	B5J6BCB49C B5J6BCNXXC	1 1
Electrically actuated 5/2 valves								
	Electric	Air/Spring Assisted	2,4/2,4	24/26		24 VDC Less solenoid coil	B5E6BCB49C B5E6BCNXXC	1 1
Electrically actuated 5/2 valves								
	Electric	Electric	1,5/1,5	15/15	0,283 0,185	24 VDC Less solenoid	B526BCB49C B526BCNXXC	1 1
	Electric	Electric Closed centre position	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B556BCB49C B556BCNXXC	1 1
	Electric	Electric Vented centre position	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B566BCB49C B566BCNXXC	1 1
	Electric	Electric Pressurised centre position	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B576BCB49C B576BCNXXC	1 1

Internal air supply to differential pilots and solenoids via port 1

B Series high performance industrial valves

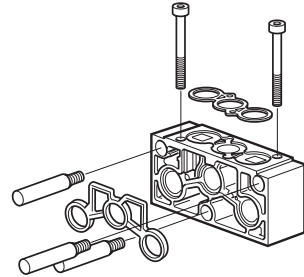
Inlet Exhaust Manifolds for B3 series valves

Standard Base without Flow Controls

Each kit contains:

- 1 pcs Manifold Base
- 2 pcs Mounting screws and nuts
- 3 pcs Tie Rods
- 1 pcs Body-to-base Gasket and
- 1 pcs Base-to-Base Gasket

		Order code	Qty
Manifold Base	3/2 =	PS2948F	1
Kit	5/2 =	PS2917F	1



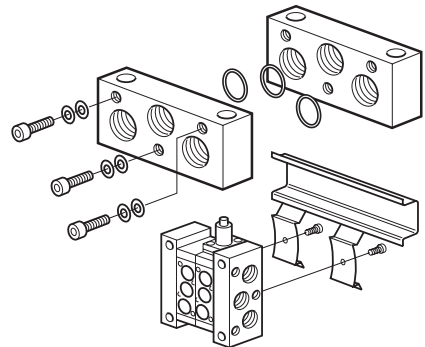
End plates

Standard End Plates may be used with either of above Manifold Bases

Each kit contains:

- 1 right and 1 left End Plate
- 3 pcs O-Rings
- 3 pcs Blanking Plugs
- 3 pcs Socket Head Cap Screws
- 3 pcs Flat Washers
- 3 pcs Lockwashers

		Order code	Qty
Manifold End	3/2 =	PS2951F	1
plate kit	5/2 =	PS2916F	1



		Order code	Qty
DIN rail mounting		PS2970F	1
kit for IEM manifold			

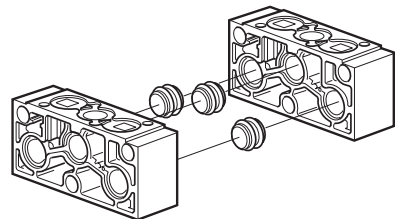
Isolator Plug Kit

Used to isolate the 1, 3 or 5 gallery between two Manifold Bases

Each kit contains:

- 3 pcs Isolator Plugs complete with O-rings.

		Order code	Qty
Isolator Plug Kit		PS2919F	1



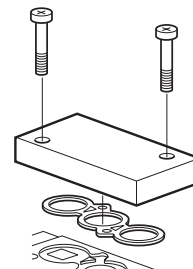
Manifold Blanking Plate

Each kit contains:

- 1 pcs Cover Plate
- 2 pcs Mounting Screws
- 1 pcs Gasket

Used to blank off unused stations.

		Order code	Qty
Manifold	3/2 =	PS2968F	1
Blanking Plate	5/2 =	PS2969F	1



B Series high performance industrial valves

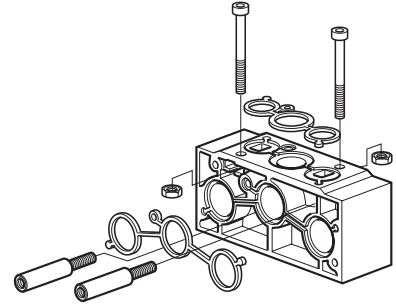
Inlet Exhaust Manifolds for B4 series valves

Standard Base without Flow Controls

Each kit contains:

- 1 pcs Manifold Base
- 2 pcs Mounting screws and nuts
- 2 pcs Tie Rods
- 1 pcs Body-to-base Gasket and
- 1 pcs Base-to-Base Gasket

		Order code	Qty
Manifold Base Kit	3/2 =	PS4548F	1
	5/2 =	PS4517F	1



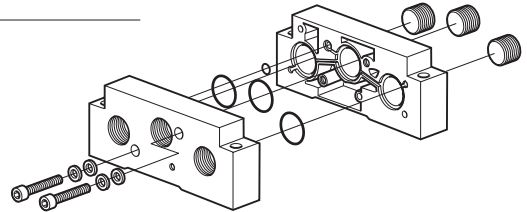
End plates

Standard End Plates may be used with either of above Manifold Bases

Each kit contains:

- 1 right and 1 left End Plate
- 3 pcs O-Rings
- 3 pcs Blanking Plugs
- 2 pcs Socket Head Cap Screws
- 2 pcs Flat Washers
- 2 pcs Lockwashers

	Port Size		Order code	Qty
Manifold End plate kit	3/8 BSP	3/2 =	PS4551F	1
	3/8 BSP	5/2 =	PS4516F	1



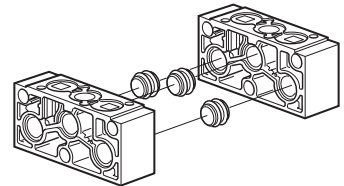
Isolator Plug Kit

Used to isolate the 1, 3 or 5 gallery between two Manifold Bases

Each kit contains:

- 3 pcs Isolator Plugs complete with O-rings

	Order code	Qty
Isolator Plug kit	PS4519F	1

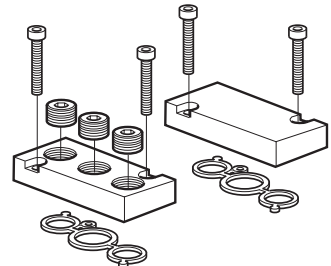


Manifold Blanking plate

Each kit contains:

- 1 pcs Cover Plate
 - 2 pcs Mounting Screws
 - 1 pcs Gasket
- Used to blank off unused stations.

		Order code	Qty
Manifold	3/2 =	PS4568F	1
Blanking plate	5/2 =	PS4569F	1



B Series high performance industrial valves

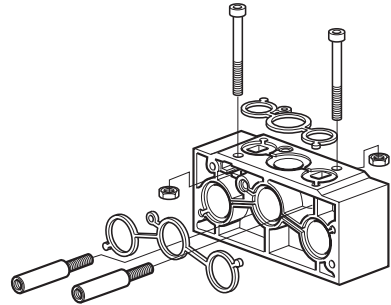
Inlet Exhaust Manifolds for B5 series valves

Standard Base without Flow Controls

Each kit contains:

- 1 pcs Manifold Base
- 2 pcs Mounting screws and nuts
- 2 pcs Tie Rods
- 1 pcs Body-to-base Gasket and
- 1 pcs Base-to-Base Gasket

	Order code	Qty
Manifold Base Kit	PS2817P	1



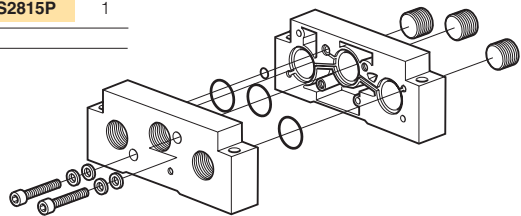
End plates

Standard End Plates may be used with either of above Manifold Bases

Each kit contains:

- 1 right and 1 left End Plate
- 3 pcs O-Rings
- 3 pcs Blanking Plugs
- 2 pcs Socket Head Cap Screws
- 2 pcs Flat Washers
- 2 pcs Lockwashers

	Port Size	Order code	Qty
Manifold End plate kit	G3/8	PS2815P	1



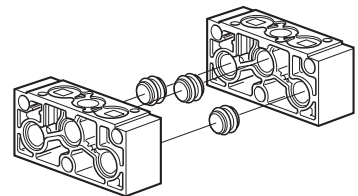
Isolator Plug Kit

Used to isolate the 1, 3 or 5 gallery between two Manifold Bases

Each kit contains:

- 3 pcs Isolator Plugs complete with O-rings

	Order code	Qty
Isolator Plug kit	PS2819P	1

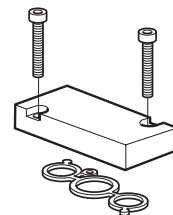


Manifold Blanking plate

Each kit contains:

- 1 pcs Cover Plate
 - 2 pcs Mounting Screws
 - 1 pcs Gasket
- Used to blank off unused stations.

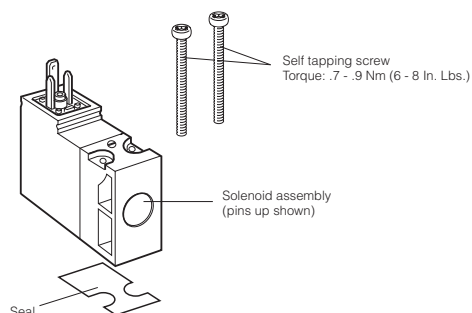
	Order code	Qty
Manifold Blanking plate	PS2869P	1



B Series high performance industrial valves

15mm Solenoid Operators for B3 and B4 Valves

Electrical connection EN 175302-803 C/ISO15217 (Ex DIN 43650C)



Solenoids 15mm NC, standard

(Note! Mounting screws included with basic valve)

	Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking flush	Weight Kg	Order code 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	0,038	P2E-KV31F0 ⊕	0,038	P2E-KV31F1 ⊕	0,038	P2E-KV31F2 ⊕
	120 VAC 60Hz						
	230 VAC 50Hz	0,038	P2E-KV31J0 ⊕	0,038	P2E-KV31J1 ⊕	0,038	P2E-KV31J2 ⊕
	240 VAC 60Hz						

Solenoid coils for B5 valves

Solenoid coils to suit 'N' enclosure type 22mm 3-Pin EN 175301-803 Industrial Form B

Coil Voltage	Order code	Weight (kg)
24 VAC	PS2828B42P	0.093
12 VDC	PS2828B45P	0.093
24 VDC	PS2828B49P	0.093
110 VAC	PS2828B53P	0.093
230 VAC	PS2828B57P	0.093




Solenoid Operator Kit

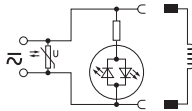
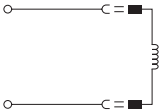
Each kit contains:
 1 large 'O' ring for operator base
 1 small 'O' ring for operator base
 2 mounting screws
 1 solenoid/stem nut

	Order code	Qty
Non locking m/o	PS2844BP	1
Locking m/o	PS2844CP	1

B Series high performance industrial valves

Solenoid Connectors / Cable Plugs EN175301-803

	Description	Order code 15mm Form C/ISO15217 Suitable for B3 & B4 valves	Order code 22mm Industrial Form B Suitable for B5 valves
With large headed screw suitable for mounting in inaccessible or recess position 	Standard IP65	P8C-C	
	24V DC LED and protection IP65	P8C-C26C	
	110V AC LED and protection IP65	P8C-C21E	
With standard screw 	Standard IP65 without flying lead	P8C-D	3EV10V10
	With LED and protection 24V AC/DC	P8C-D26C	3EV10V20-24
	With LED and protection 110V AC	P8C-D21E	3EV10V20-110
	With LED and protection 230V AC		3EV10V20-230
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
	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
	230V AC, 5m cable LED and protection IP65		3EV10V20-230L5



P8C-C
P8C-D
P8L-C2
P8L-C5
3EV10V10

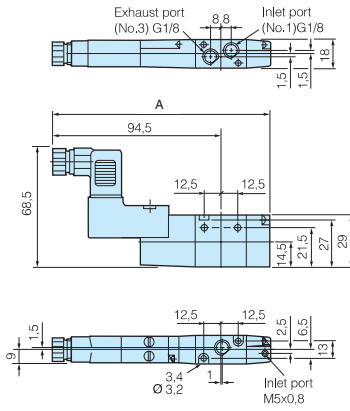
P8C-D26C	P8L-C226C
P8C-D21E	P8L-C526C
P8C-C26C	P8L-CA26C
P8C-C21E	P8L-C221E
	P8L-C521E
3EV10V20-24	3EV10V20-24L5
3EV10V20-110	3EV10V20-110L5
3EV10V20-230	3EV10V20-230L5

B Series high performance industrial valves

Dimensions, B3 Valve Series

3/2 Body ported

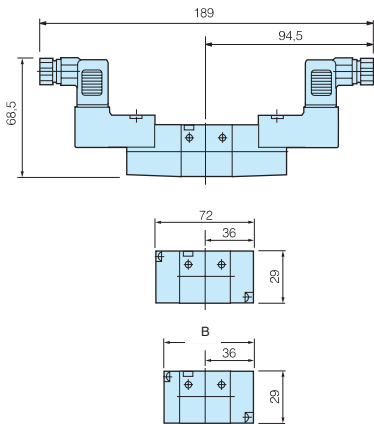
Single solenoid operated air spring return / spring return



	Air differential return	Spring return
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A	130,5	136,7
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Double solenoid operated

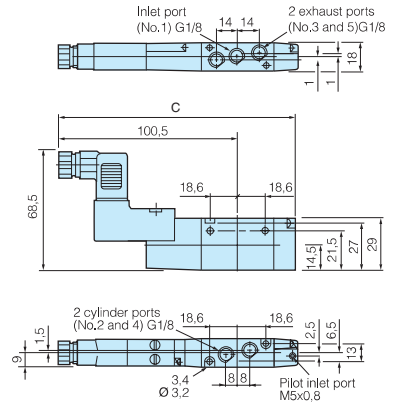


	Air differential return	Spring return
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B	67,0	73,2
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5/2 Body ported

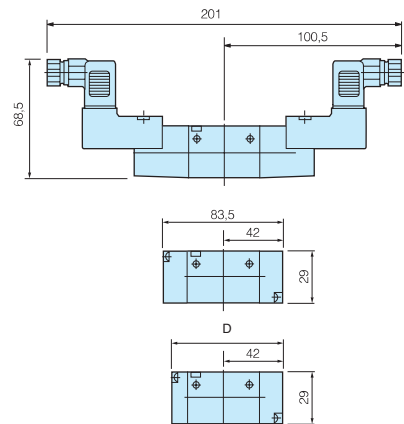
Single solenoid operated air spring return / spring return



	Air differential return	Spring return
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C	137,5	143,7
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Double solenoid operated



	Air differential return	Spring return
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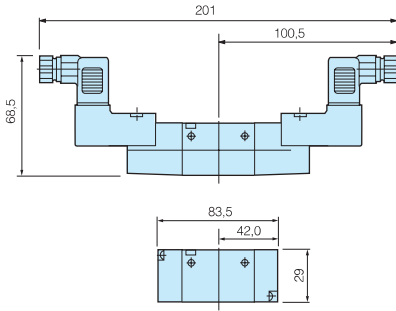
D	79,0	85,2
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All dimensions in mm unless otherwise stated

B Series high performance industrial valves

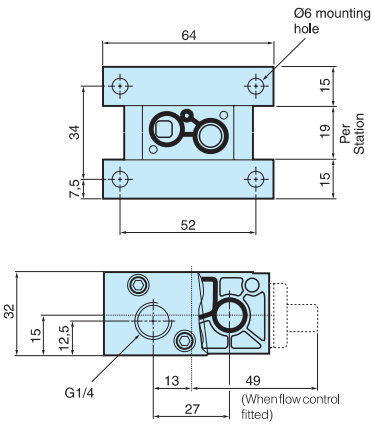
Dimensions, B3 Valve Series

5/3 Body ported

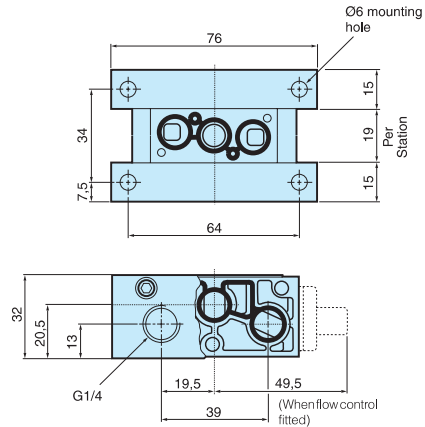


Manifolds - IEM Inlet Exhaust Manifold System

3/2 Inlet Exhaust Manifold For B3 Body Ported Valves



5/2 Inlet Exhaust Manifold For B3 Body Ported Valves



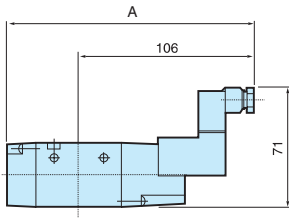
All dimensions in mm unless otherwise stated

B Series high performance industrial valves

Dimensions, B4 Valve Series

3/2 Body ported

Single solenoid operated air spring return / spring return

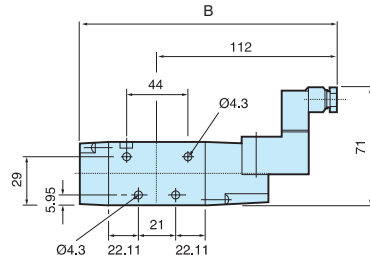


	Air differential return	Spring return
A	154,0	156,0

A	154,0	156,0
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5/2 Body ported

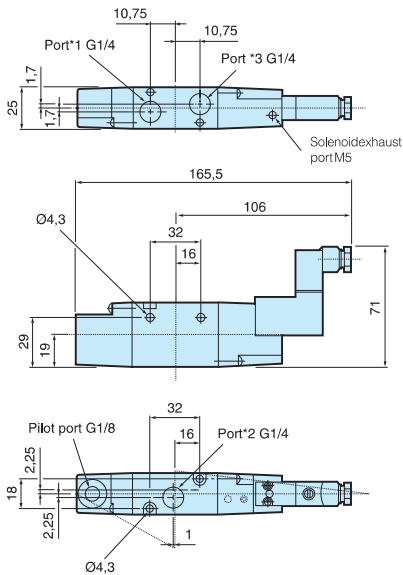
Single solenoid operated air spring return / spring return



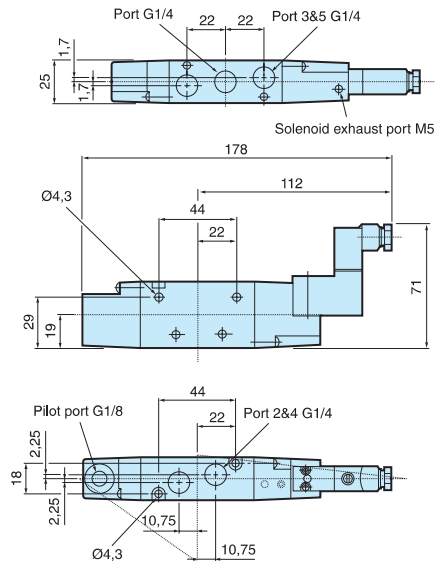
	Air differential return	Spring return
B	166,0	168,0

B	166,0	168,0
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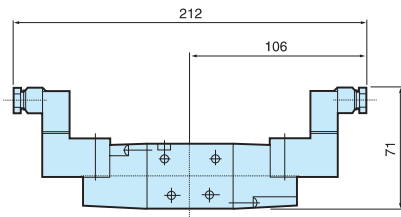
Single solenoid operated air pilot return



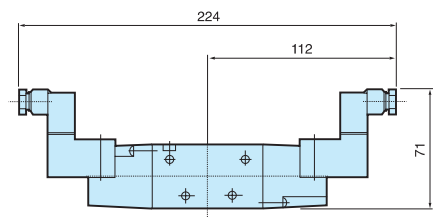
Single solenoid operated air pilot return



Double solenoid operated



Double solenoid operated

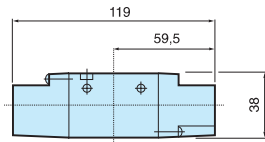


All dimensions in mm unless otherwise stated

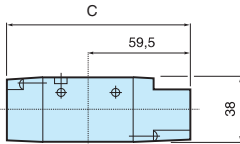
B Series high performance industrial valves

Dimensions, B4 Valve Series

3/2 Body ported
Double air pilot operated

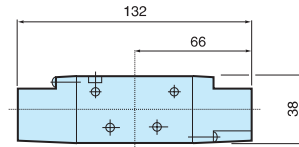


Air pilot operated air spring return / spring return

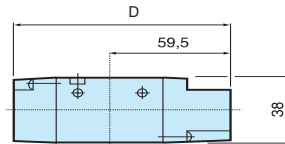


	Air differential return	Spring return
C	107,5	109,5

5/2 Body ported
Double air pilot operated

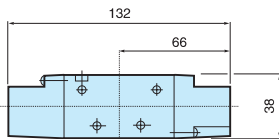


Air pilot operated air spring return / spring return

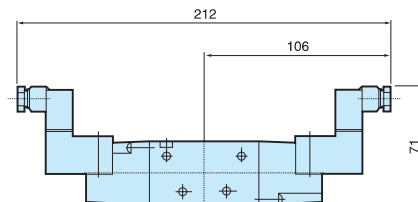


	Air differential return	Spring return
D	120,0	122,0

5/3 Body ported
Double air pilot return

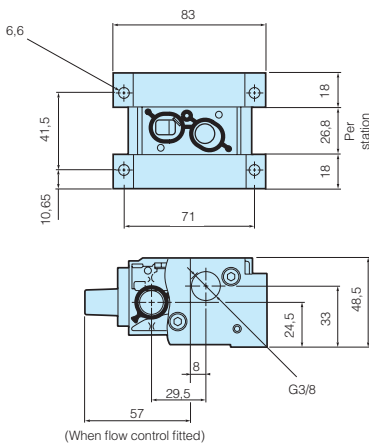


5/3 Body ported
Double solenoid operated

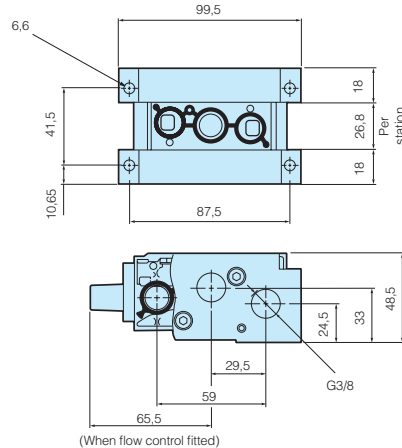


Manifolds - IEM Inlet Exhaust Manifold System

3/2 Inlet Exhaust Manifold
For B4 Body Ported Valves



5/2 Inlet Exhaust Manifold
For B4 Body Ported Valves



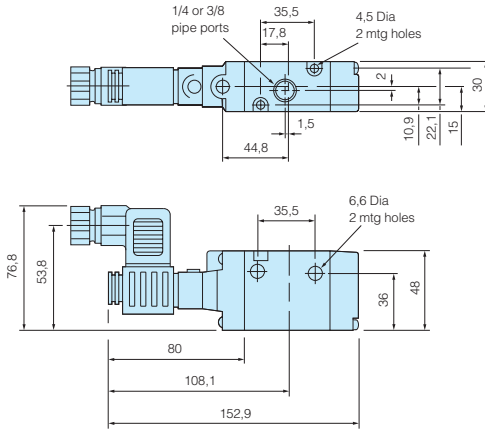
All dimensions in mm unless otherwise stated

B Series high performance industrial valves

Dimensions, B5 Valve Series

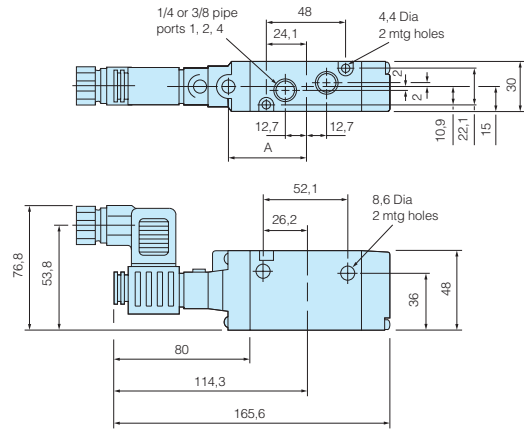
3/2 Body ported

Single solenoid operated air spring return / spring return



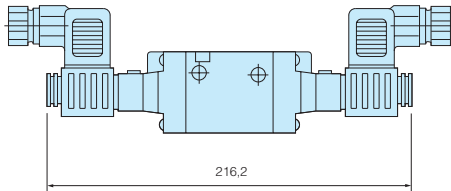
5/2 and 5/3 Body ported

Single solenoid operated air spring return / spring return

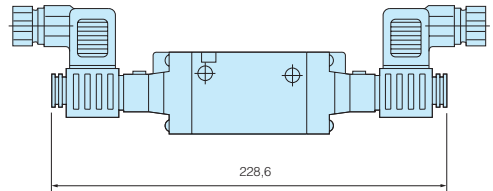


	2 Position	3 Position
A	51,1	62,7

Double solenoid operated



Double solenoid operated

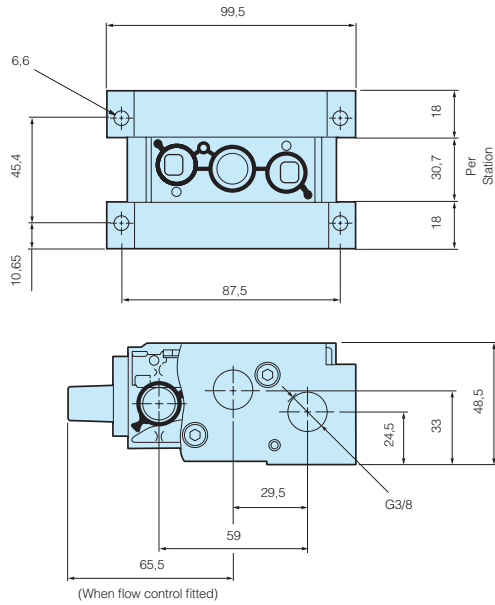


All dimensions in mm unless otherwise stated

B Series high performance industrial valves

Manifolds - IEM Inlet Exhaust Manifold System

5/2 Inlet Exhaust Manifold For B5 Body Ported Valves



Miniature low voltage solenoid valves, ideal for powering small cylinders in the packaging and process industries. Metal bodies with stand alone or manifold mounted versions.



- 2 sizes: M5 and 1/8"
- Compact body with large flow
- Quick response time, faster than 10ms
- Expected life time more than 50,000,000 cycles
- Low power consumption only 0.6W
- Optional multipin connector manifold
- Manual override

Operating information

Working pressure : 1.5 to 7 bar
 Working temperature : -5°C to +50°C
 Flow (Qmax) A05 : 260 l/min
 A12 : 850 l/min
 Flow Qn A05 : 160 l/min
 A12 : 510 l/min

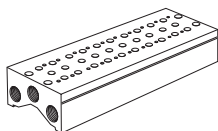
For technical information see CD

Directional control valves A05R and A12R series, inline / IEM manifold

Symbol	Description (Electrically Actuated)	Voltage	Order code A05R - M5 ports	Order code A12R - G1/8 ports
	5/2 single solenoid	24V DC	A05RS251PM5MF	A12RS251PG1MF
	5/2 double solenoid	24V DC	A05RD251PM5MF	A12RD251PG1MF
	5/3 closed centre	24V DC	A05RD351PM5MF	A12RD351PG1MF

A05R/A12R Series Manifolds

Manifold for individual wiring threaded type






No. of stations	Port size	Size	Order Code Manifold
4	M5	A05	MMFU4A05G
	G1/8	A12	MMFU4A12G
6	M5	A05	MMFU6A05G
	G1/8	A12	MMFU6A12G
8	M5	A05	MMFU8A05G
	G1/8	A12	MMFU8A12G



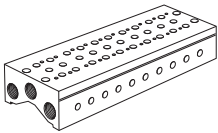
Indicates stocked product.

Directional control valves A05P/A12P series, sub-base version

Symbol	Description	Voltage	Order code A05P	Order code A12P
	Electrically actuated 5/2 single solenoid	24V DC	A05PS251P	A12PS251P
	Electrically actuated 5/2 double solenoid	24V DC	A05PD251P	A12PD251P
	Electrically actuated 5/3 closed centre	24V DC	A05PD351P	A12PD351P


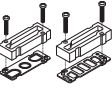

A05P/A12P Series manifold sub-bases


Manifolds individual wiring threaded type



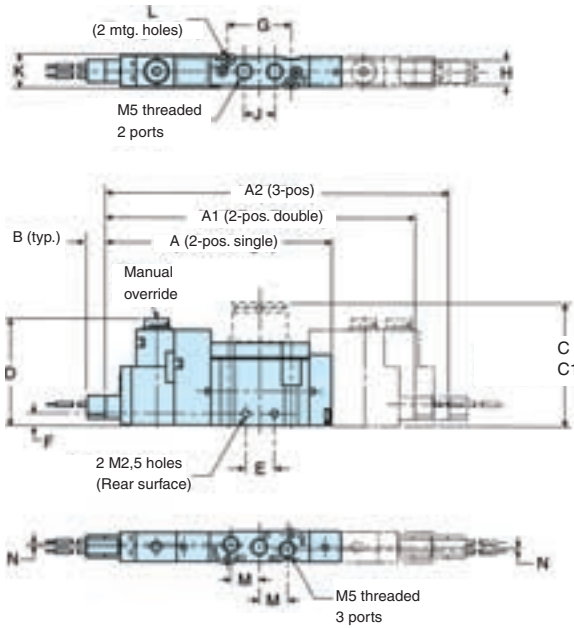
No. of stations	Port size	Size	Order Code Manifold
4	M5	A05	MMFS4A05GM5
	G ¹ / ₈	A12	MMFS4A12GG1
6	M5	A05	MMFS6A05GM5
	G ¹ / ₈	A12	MMFS6A12GG1
8	M5	A05	MMFS8A05GM5
	G ¹ / ₈	A12	MMFS8A12GG1

Mounting and Wiring Accessories

Description	Order code
 Connector with lead wire black (-) red (+) 500mm	A05PDCCL5
 IEM blank plate kit (pack of 5)	A05RGBP A12RGBP
 Subbase blank plate kit (pack of 5)	A05PGBP A12PGBP

 Indicates stocked product.

A05R - Single and double operators - Body ported

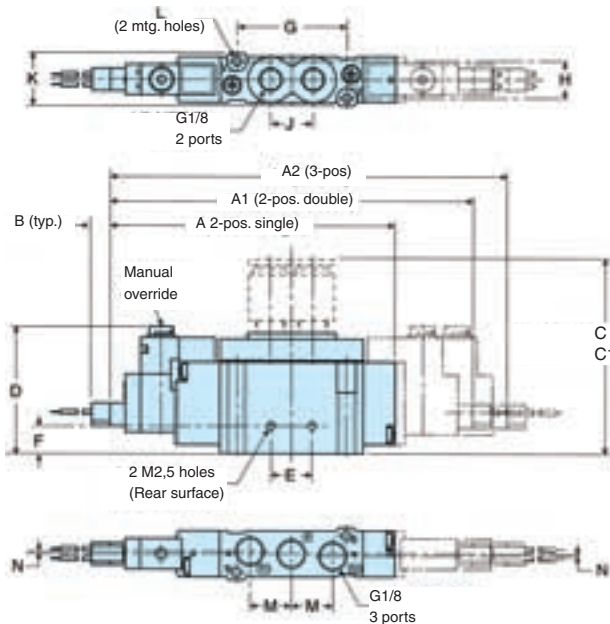


A05R - Body ported

A 74	A1 100	A2 108	B 6	C -
C1 -	D 34,6	E 9,6	F 4	G 21
H 8,5	J 10,2	K 11,4	L Ø2,1	M 9,5
N 1				

Dimensions in mm

A12R - Single and double operators - Body ported

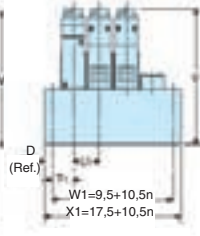
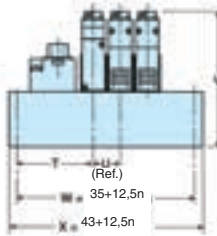
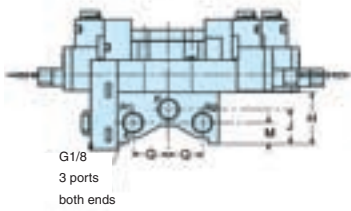
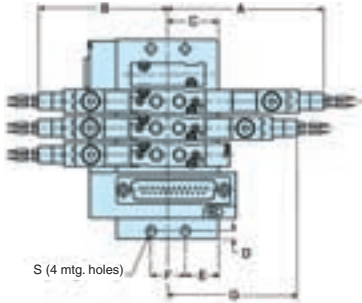


A12R - Body ported

A 93,5	A1 119	A2 130	B 6	C -
C1 -	D 41,6	E 13,4	F 9	G 36
H 12	J 14	K 17,2	L Ø3,1	M 13,6
N 0,8				

Dimensions in mm

A05R - Manifold - Valve body ports



A05R - Manifold - valve body port

A 64	B 56	C 23,5	D 4	E 15,5
F 16	G 56	H 24	J 15,5	M 9,5
Q 16	S Ø4,5	T 34	T1 10	U 12,5
U1 10,5	V 63			

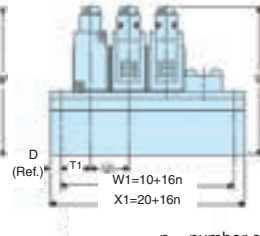
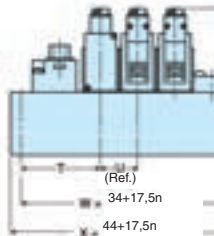
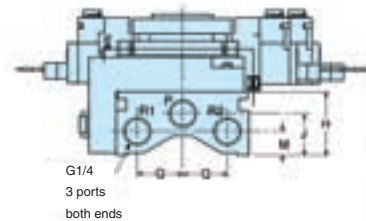
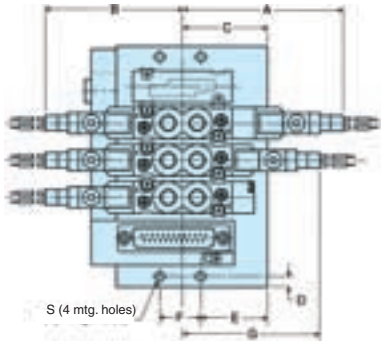
Dimensions in mm

n = number of stations

MMCU...

MMFU...

A12R - Manifold - Valve body ports



A12R - Manifold - Valve body port

A 77	B 66	C 29	D 5	E 19,2
F 19,6	G 66	H 27,5	J 18	M 10,5
Q 19,5	S Ø4,5	T 37,5	T1 12,2	U 17,5
U1 16	V 70			

Dimensions in mm

n = number of stations

MMCU...

MMFU...

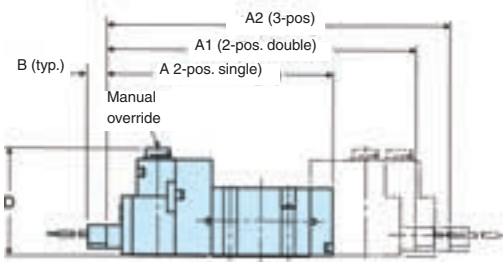
A05P - Single and double operators - Subbase



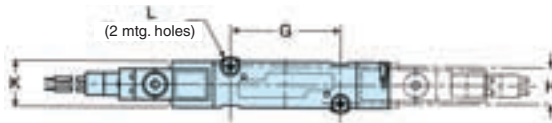
A05P - Subbase

A 74	A1 100	A2 108	B 6	D 35,1
G 19	H 8,5	K 10	L Ø2,1	

Dimensions in mm



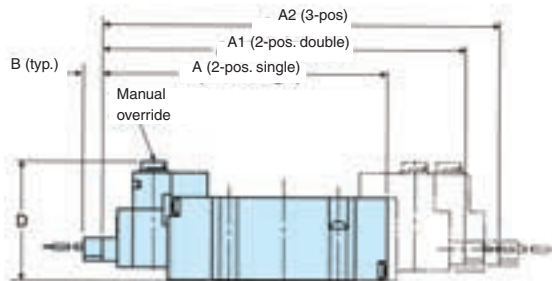
A12P - Single and double operators - Subbase



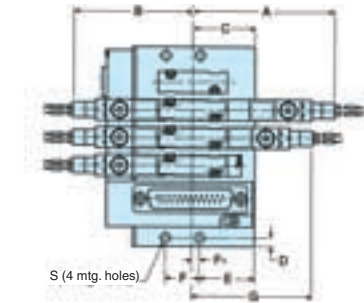
A12P - Subbase

A 93,5	A1 119	A2 130	B 6	D 39,1
G 34	H 12	K 15	L Ø3,1	

Dimensions in mm



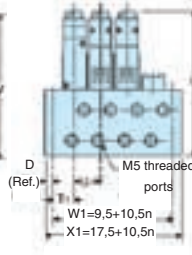
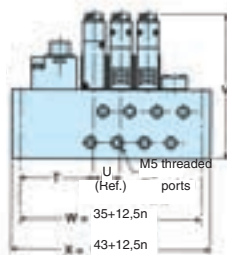
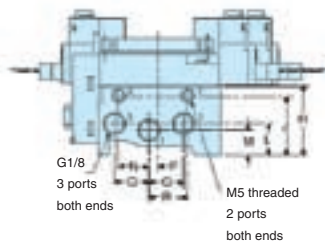
A05P - Manifold - Side ports



A05P - Manifold - Side ports

A 64	B 56	C 30,2	D 4	E 25,5
F 16	F1 4,7	G 56	H 32	J 28
L 14,5	M 11,5	N 14	P 3	Q 16
R 18	S Ø4,5	T 33,8	T1 10	U 12,5
	U1 10,5	V 67		

Dimensions in mm

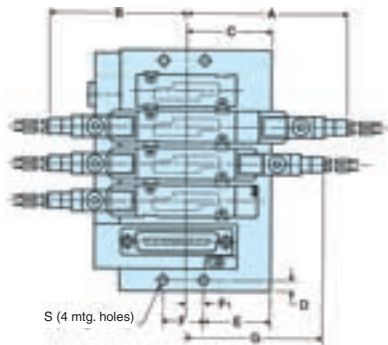


n = number of stations

MMCS...

MMFS...

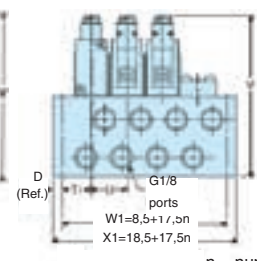
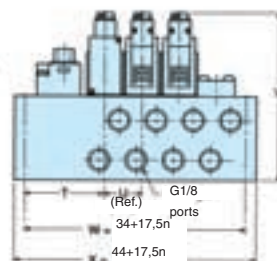
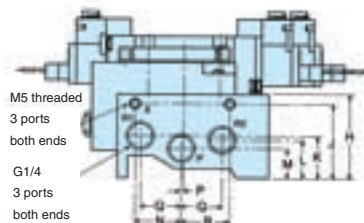
A12P - Manifolds - Side ports



A12P - Manifold - Side ports

A 77	B 66	C 40,4	D 5	E 31,7
F 19,6	F1 11	G 66	H 39,5	J 35
K 20,5	L 18	M 14	N 22	P 1
Q 19,5	R 23	S Ø4,5	T 37,2	T1 12,7
U 17,5	V 79			

Dimensions in mm



n = number of stations

MMCS...

MMFS...

G1/8 and G1/4 Body ported spool valves with excellent reliability. Viton seals as standard provide long service life even in arduous conditions.












- 43 series G1/8 body ported
- 53 series G1/4 body ported
- Stainless steel spool
- 3/2, 5/2 and 5/3 versions
- Viton body seals as standard
- Integral mounting holes


Operating information

Working pressure	Vacuum-10 bar	
Working temperature	-10 °C to +80 °C	
Port size	G1/8	43 series
	G1/4	53 series
Flow (Qmax);	43 series	510 l/min
	53 series	1740 l/min







For technical information see CD

Push button operated valves, B43 / B53 Series




Symbol	Type	Actuator	Return	Size	Order code
	3/2	Button, black	Spring	G1/8	B43003BXS
				G1/4	B53003HXS
	3/2	Button black	Air Pilot	G1/4	B53003HXP
	3/2	Button black	Spring	G1/8	B43603BX
	3/2	Button red	Spring	G1/4	B53003HY
	3/2	Button, black	Button	G1/8	B43003HXS
				G1/4	B53003HX
	5/2	Button, black	Spring	G1/8	B43004BXS
				G1/4	B53004HXS
	5/2	Button, black	Button	G1/8	B43004HXS
				G1/4	B53004HX
	5/2	Button black	Air Pilot	G1/8	B43004HXP
				G1/4	B53004HXP
	5/3	Button closed centre	Button self centring	G1/4	B53004HXX

 Indicates stocked product.



Mechanically operated valves, B43 / B53 Series

Symbol	Type	Actuator	Return	Size	Order code
	3/2	Plunger	Spring	G1/8	B43003CS
		Plunger	Spring	G1/8	B43603C
		Plunger	Spring	G1/4	B53003CS
	5/2	Plunger	Spring	G1/8	B43004CS
		Plunger	Spring	G1/4	B53004CS
	3/2	Roller lever	Spring	G1/8	B43003RS
		Roller lever	Spring	G1/8	B43603R
		Roller	Spring	G1/4	B53003RS
	3/2	One way roller trip	Spring	G1/8	B43003RTS
	5/2	Roller lever	Spring	G1/8	B43004RS
		Roller	Spring	G1/4	B53004RS
	5/2	Roller	Air Pilot	G1/8	B43004RP


Manually operated valves, B43/53 series

Symbol	Type	Actuator	Return	Size	Mid-position	Order code
	3/2	Foot pedal	Spring	G1/8		B43003FS
		Foot pedal	Foot Pedal	G1/4		B53003FS
	5/2	Foot pedal	Spring	G1/8		B43004FS
		Foot pedal	Foot Pedal	G1/4		B53004FS
	5/3	Foot pedal	Foot Pedal	G1/4	Closed centre	B53004GX
		Foot pedal	Foot Pedal	G1/4	Vented centre	B53004GY

Diaphragm operated valves

Symbol	Type	Actuator	Return	Size	Mid-position	Order code
	3/2	Diaphragm	Spring	G1/8		B43003DF
	5/2	Diaphragm	Spring	G1/8		B43004DF


















Palm lever operated valves

Symbol	Type	Actuator	Return	Size	Mid-position	Order code
	3/2	Palm lever	Spring	G1/8		B43003ES

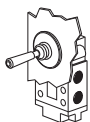
 Indicates stocked product.

Manually operated valves, B43/53 series

Lever operated

		3/2	Lock down lever	Spring	G1/8	B43003LS
		3/2	Lock down lever	Spring	G1/8	B43603L
		5/2	Lock down lever	Spring	G1/8	B43004LS
		3/2	Lever	Spring	G1/4	B53003LS
		3/2	Lever	Air Pilot	G1/4	B53003LP
		3/2	Lever	Lever	G1/4	B53003LT
		5/2	Lever	Spring	G1/4	B53004LS
		5/2	Lever	Air Pilot	G1/4	B53004LP
		5/2	Lever	Lever	G1/4	B53004LT
		5/3	Lever Closed centre	Lever Held in three positions	G1/4	B53004L
		5/3	Lever Vented centre	Lever Held in three positions	G1/4	B53004LW
		3/3	Lever	Spring	G1/4	B53003LX
		5/3	Lever Closed centre	Lever Self centring	G1/4	B53004LX
		5/3	Lever Vented centre	Lever Self centring	G1/4	B53004LY

Panel mounting kit - B53 series

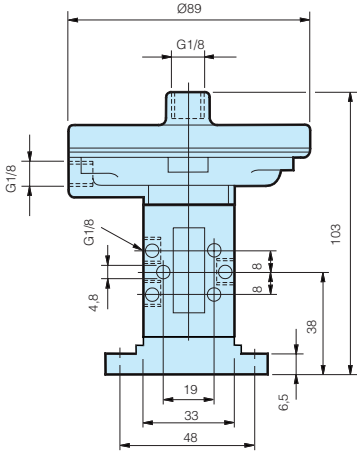


M53004L-10A

 Indicates stocked product.

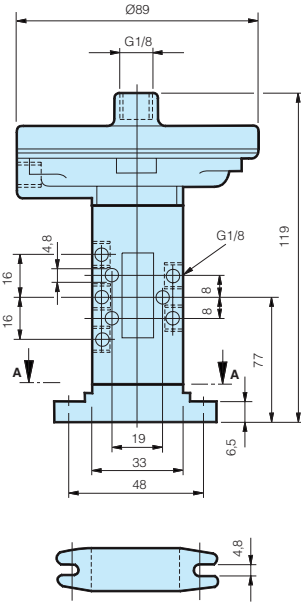
3/2 valve dimensions (mm)

Diaphragm operated
spring return

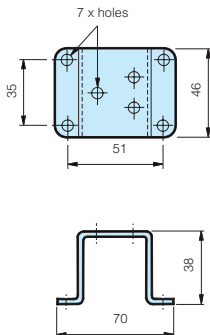


5/2 valve dimensions (mm)

Diaphragm operated
spring return

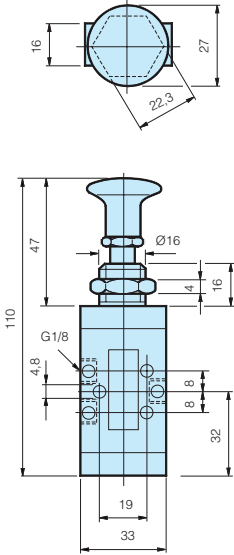


Mounting brackets

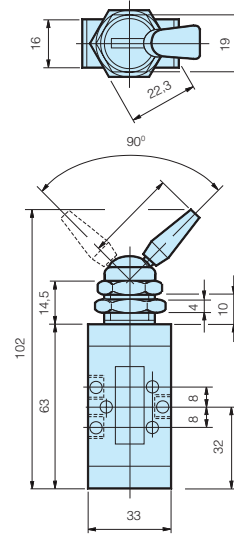


3/2 valve dimensions (mm)

Button operated
spring or button return

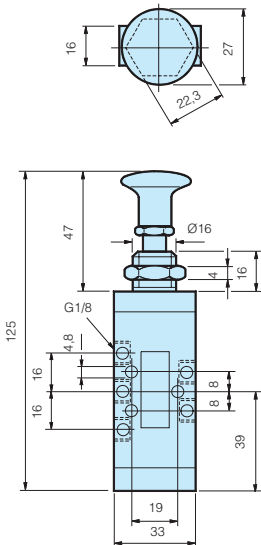


Lock down lever operated
spring return

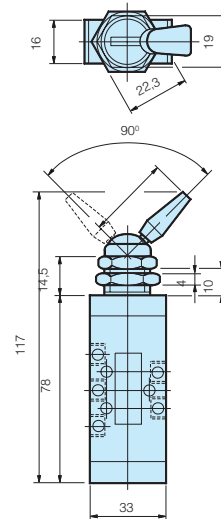


5/2 valve dimensions (mm)

Button operated
spring or button return

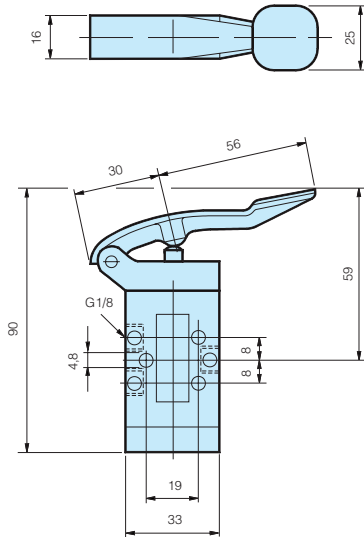


Lock down lever operated
spring return

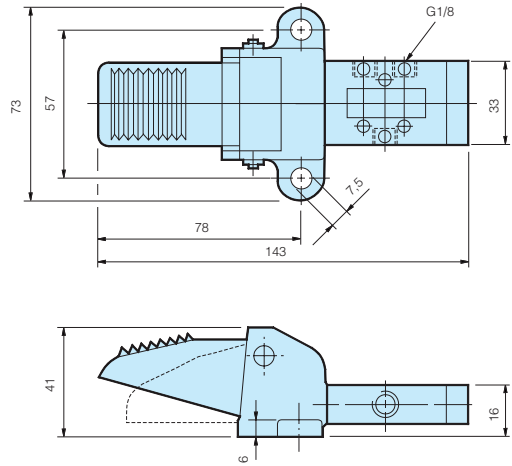


3/2 valve dimensions (mm)

**Palm lever operated
spring return**

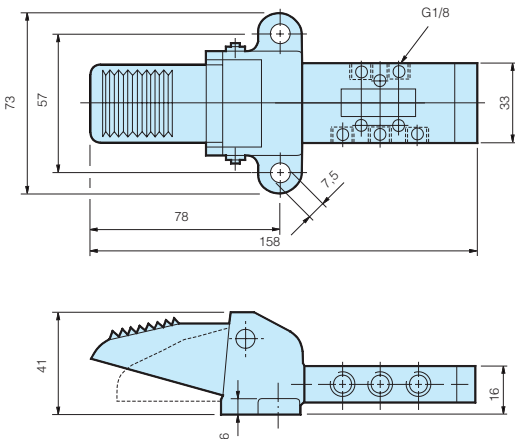


**Foot pedal operated
spring return**



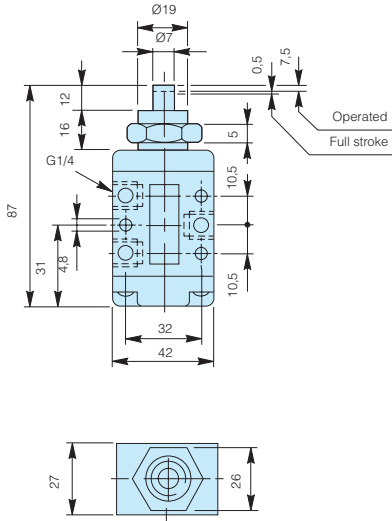
5/2 valve dimensions (mm)

**Foot pedal operated
spring return**

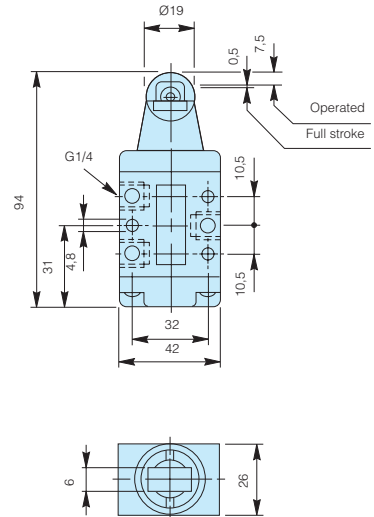


3/2 valve dimensions (mm)

Plunger operated spring return

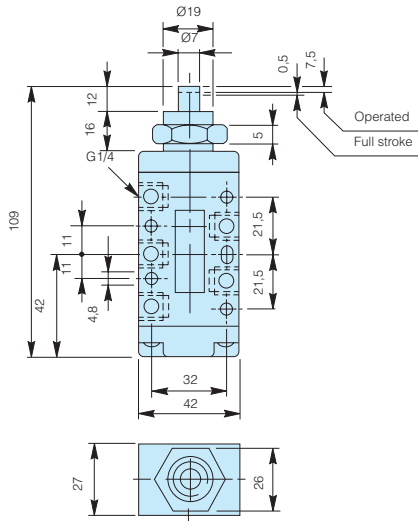


Roller operated

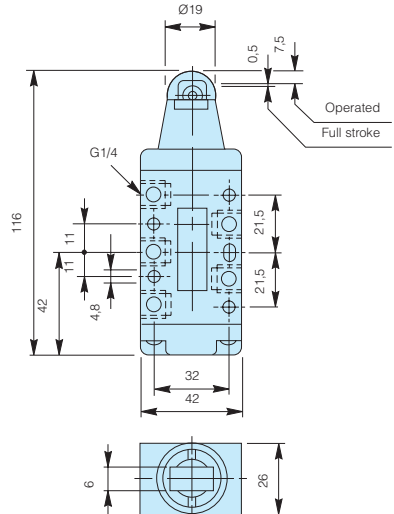


5/2 valve dimensions (mm)

Plunger operated spring return

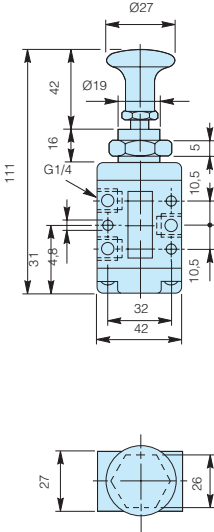


Roller operated

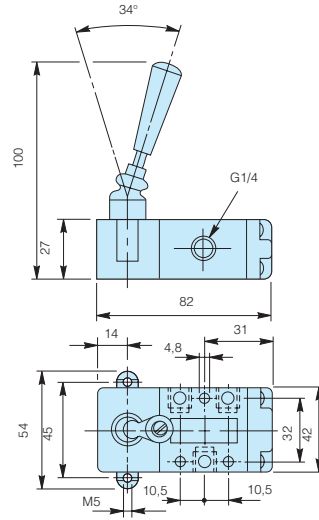


3/2 valve dimensions (mm)

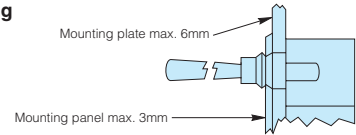
Button operated
spring return



Lever operated
spring return

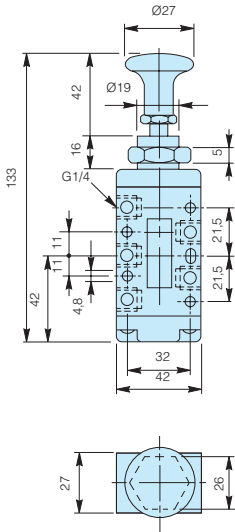


Panel mounting

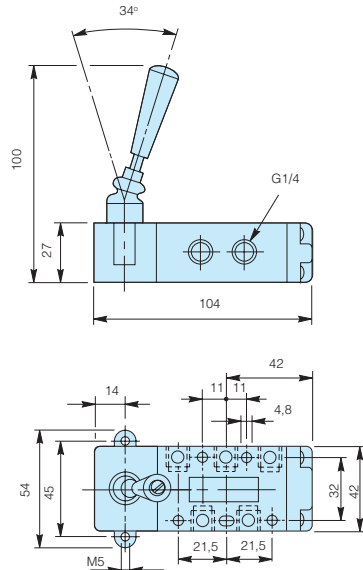


5/2 valve dimensions (mm)

Button operated
spring return

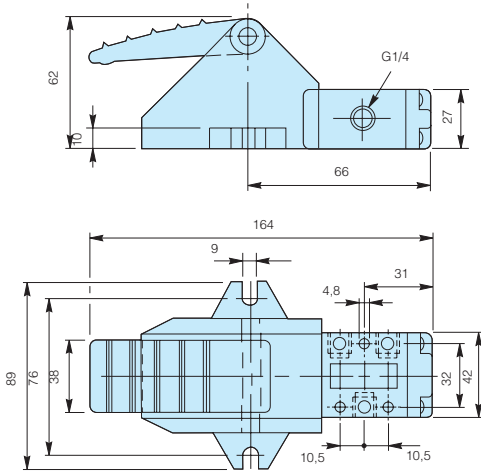


Lever operated
spring return

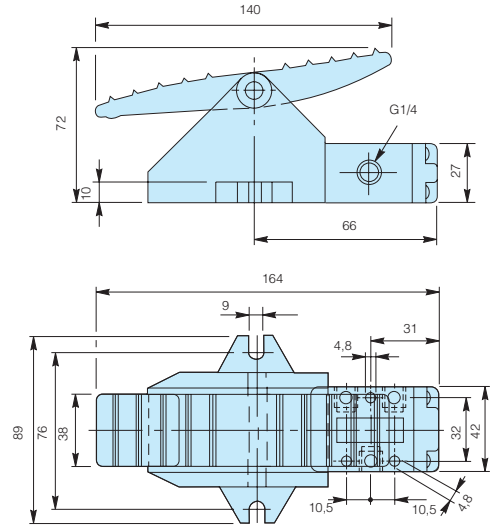


3/2 valve dimensions (mm)

Foot pedal operated
spring return

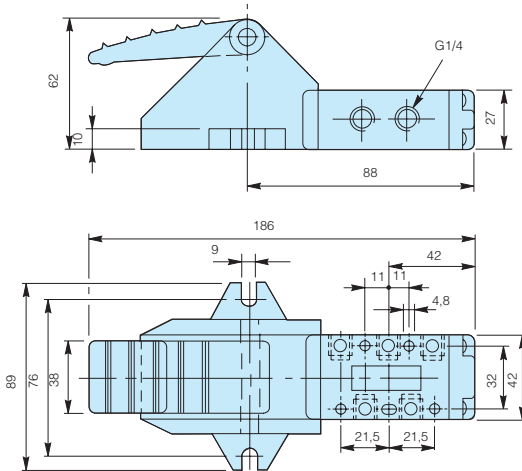


Foot pedal operated

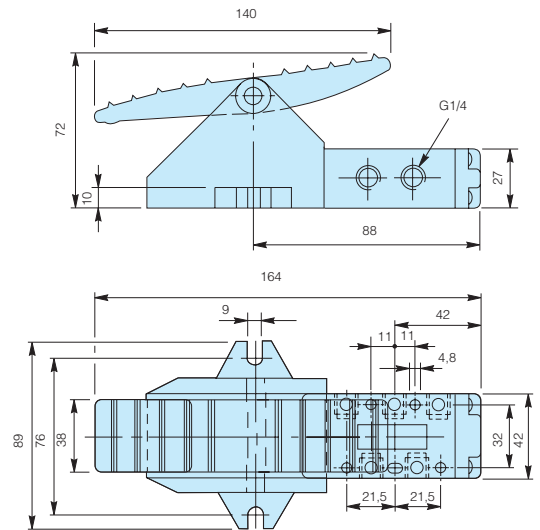


5/2 valve dimensions (mm)

Foot pedal operated
spring return

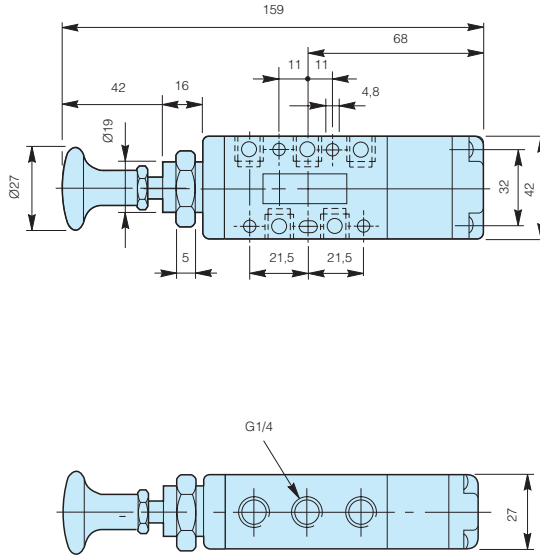


Foot pedal operated



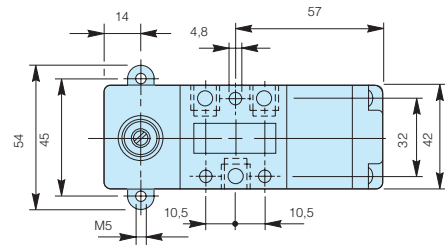
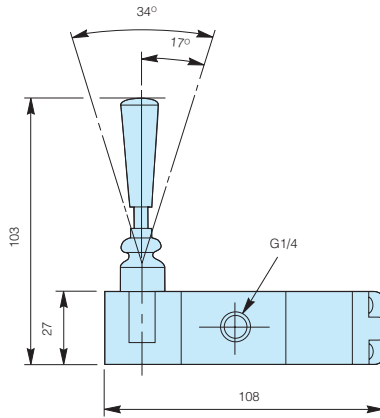
5/3 valve dimensions (mm)

Button operated

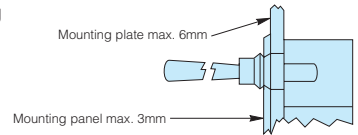


3/3 valve dimensions (mm)

Lever operated

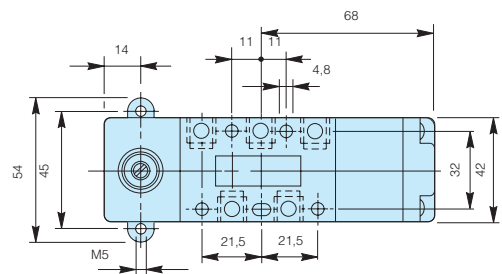
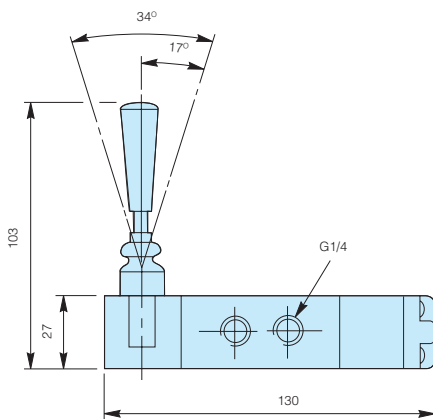


Panel mounting



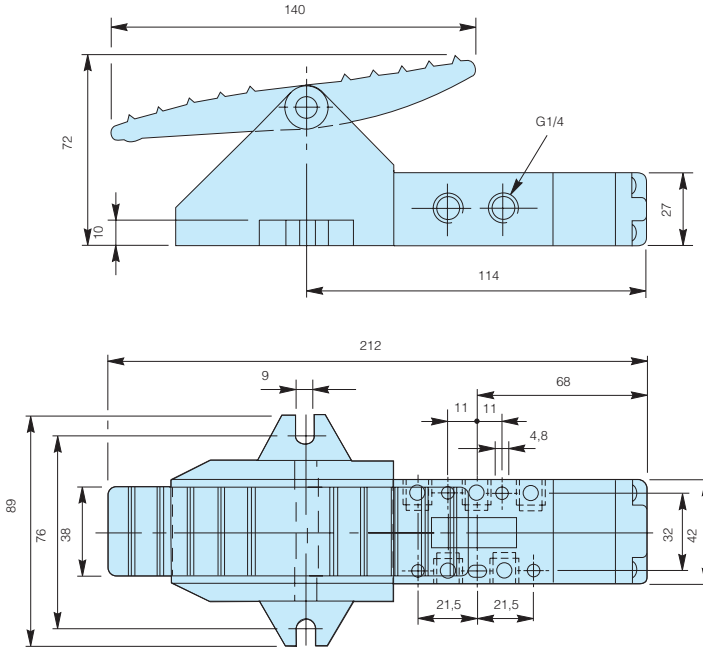
5/3 valve dimensions (mm)

Lever operated



5/3 valve dimensions (mm)

Foot pedal operated
spring return



Designed to fit the standard electrical Ø22mm knock out, they can provide dual pneumatic and electrical output signals. A variety of button and switch actuators are available.

- Facia mounted operation
- 3/2 NO or NC
- Modular construction
- Wide range of actuators
- Dual pneumatic and electrical output signal



Flow characteristics


PXB-B3••	Q _{max} = 60 l/min Q _n = 30 l/min
PXB-B4••	Q _{max} = 240 l/min Q _n = 120 l/min
Connections	Ø 4 mm push-in

Operating information


Push button valves - Visual indicators

Working pressure	
PXB-B3••	1 to 9 bar
PXB-B4••	1 to 10 bar
PXV-••	1 to 8 bar
Working temperature	-15°C to +60°C
ATEX approval:	CE Ex II 3 GD
For ATEX specific products contact Sales Office	


Spring return push buttons

Symbol	Flow	Order code
	60 l/min	PXB-B3111BA2
	240 l/min	PXB-B4131BA2

Black - With 1 NC valve


Symbol	Flow	Order code
	60 l/min	PXB-B3111BA3
	240 l/min	PXB-B4131BA3

Green - With 1 NC valve


Symbol	Flow	Order code
	60 l/min	PXB-B3111BA4
	240 l/min	PXB-B4131BA4

Red - With 1 NC valve

Mushroom head push buttons


Symbol	Flow	Order code
	60 l/min	PXB-B3111BC2
	240 l/min	PXB-B4131BC2

Black - Spring return - With 1 NC valve


Symbol	Flow	Order code
	60 l/min	PXB-B3111BT4
	240 l/min	PXB-B4131BT4

Red - Latching - With 1 NC valve

Selector switches

Symbol	Flow	Order code
	60 l/min	PXB-B3111BD2
	240 l/min	PXB-B4131BD2

Black - 2 positions - With 1 NC valve

 Indicates stocked product.

Additional switch valves, electrical contact block and mounting brackets

Symbol	Flow	Order code
	60 l/min NC	PXB-B3911
	240 l/min NC	PXB-B4931
	60 l/min NO	PXB-B3921
	240 l/min NO	PXB-B4931
	60 l/min NC	PXB-B3912
	60 l/min NO	PXB-B3922

Contact	Order code
Normally open NO	ZBE-101
Normally closed NC	ZBE-102

All PXB-B4 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air supply to port 1 or port 3.

Symbol	Flow	Order code
	60 l/min NC	PXB-B3111B
	60 l/min NO	PXB-B3121B

Description	Order code
Mounting	ZB4-BZ009 block

Spring return push buttons

Spring return

Colour	Order code
Black	ZB4-BA2
Green	ZB4-BA3
Red	ZB4-BA4

Flush

Mushroom head

Colour	Order code
Black	ZB4-BC2
Green	ZB4-BC3
Red	ZB4-BC4

Ø40 mm
spring return

Selector switches

Black handle

Function	Order code
2 positions fixed	ZB4-BD2
3 positions fixed	ZB4-BD3

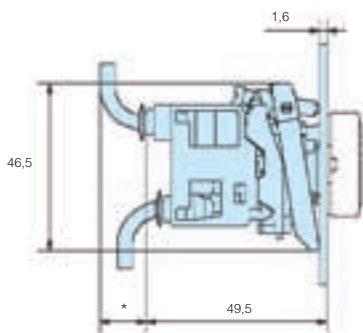
Standard

Visual indicators

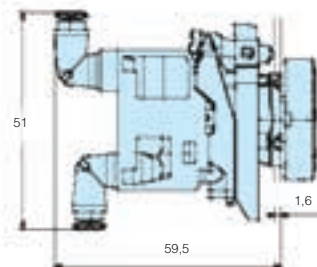
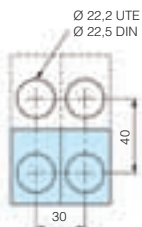
Colour actuated	Colour unactuated	Order code
Green	Black	PXV-F131
Red	Black	PXV-F141
Yellow	Black	PXV-F151
Blue	Black	PXV-F161
White	Black	PXV-F111
Green	Red	PXV-F1314

Indicates stocked product.

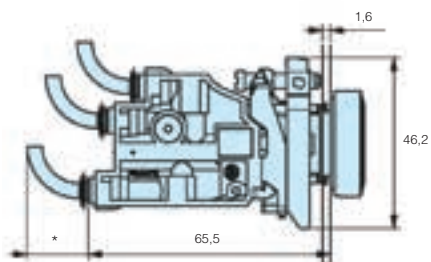
PXB-B3



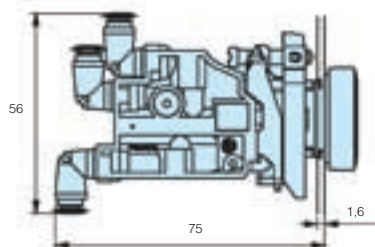
Body width 30mm
 * With 2 x 4mm tube = 10
 With 2,7 x 4mm tube = 15



PXB-B4



Body width 30mm
 * With 2 x 4mm tube = 10
 With 2,7 x 4mm tube = 15



Rugged brass bodies with excellent corrosion resistance make these valves the ideal choice for arduous applications. Large and robust manual actuators are available together with air pilot actuators.

- Rugged valves for heavy duty applications
- Large and robust actuators for easy operation
- Excellent corrosion resistance
- Integral mounting holes
- Panel mounting versions

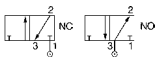


Operating information

Working temperature -20 °C to +70 °C
 Working pressure Max 10 bar
 Flow (Qmax): 380 l/min
 For technical information see CD

Push button valves, VA13 Series - G¹/₈

Symbol	Actuator	Return	Operating force at 6 bar, N	Mounting	Order code
Hand actuated					
	Flush-Push button, red	Spring	32,5	Panel	VA13-HIS4
	Flush-Push button, black	Spring	32,5	Panel	VA13-HIS4A06
	Hand lever Held in two positions	Hand lever	8	Panel	VA13-HB24
	Hand lever Held in two positions	Hand lever	8	Side	VA13-HB2
	Button, red Two positions	Button	3	Panel	VA13-KL24
	Button, red	Spring	31,5	Panel	VA13-KS4
	Button, red Two positions	Button	3	Side	VA13-KL2
	Button, red	Spring	31,5	Side	VA13-KS
	Button, red Two positions	Knob/ Air signal	6	Side	VA13-KL2A



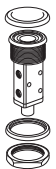
All 3/2 type VA13 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air supply to port 1 or port 3


Indicates stocked product.

Push button valves, VA15 Series - G¹/₈ connection

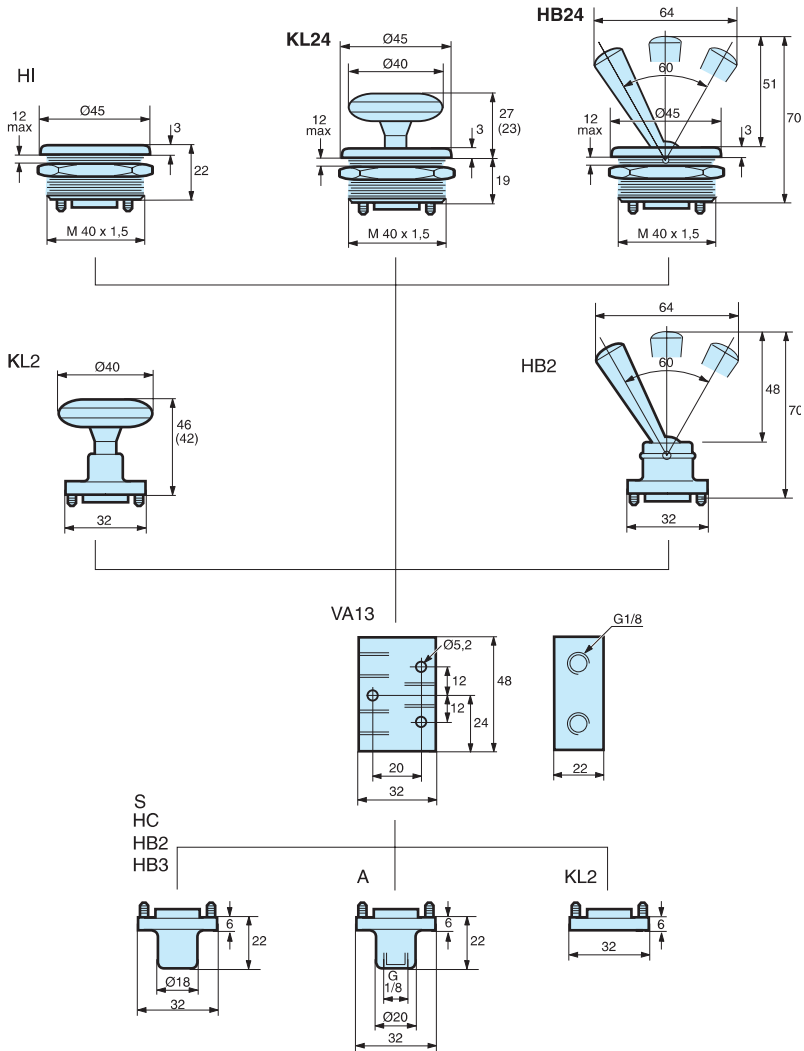
Symbol	Actuator	Return	Operating force at 6 bar, N	Mounting	Order code
Hand actuated					
	Flush-Push button, red	Spring	34,5	Panel	VA15-HIS4
	Hand lever Held in two positions	Hand lever	9	Panel	VA15-HB24
	Hand lever Held in three positions Closed centre position	Hand lever	9	Panel	VA15-HB34
	Hand lever Held in three positions Vented centre position	Hand lever	9	Panel	VA15-XHB34
	Hand lever Three positions Closed centre position	Hand lever	9	Panel	VA15-HC4
	Hand lever Three positions Vented centre position	Hand lever Self centring	9	Panel	VA15-XHC4
	Hand lever Held in two positions	Hand lever	9	Side	VA15-HB2
	Button, red Two positions	Button	5	Panel	VA15-KL24
	Button, red Two positions	Button	5	Side	VA15-KL2
	Air signal	Air signal	3/3	Side	VA15-AA
	Air signal	Spring	4/-	Side	VA15-AS

Accessories for VA13/15HI... Series valves

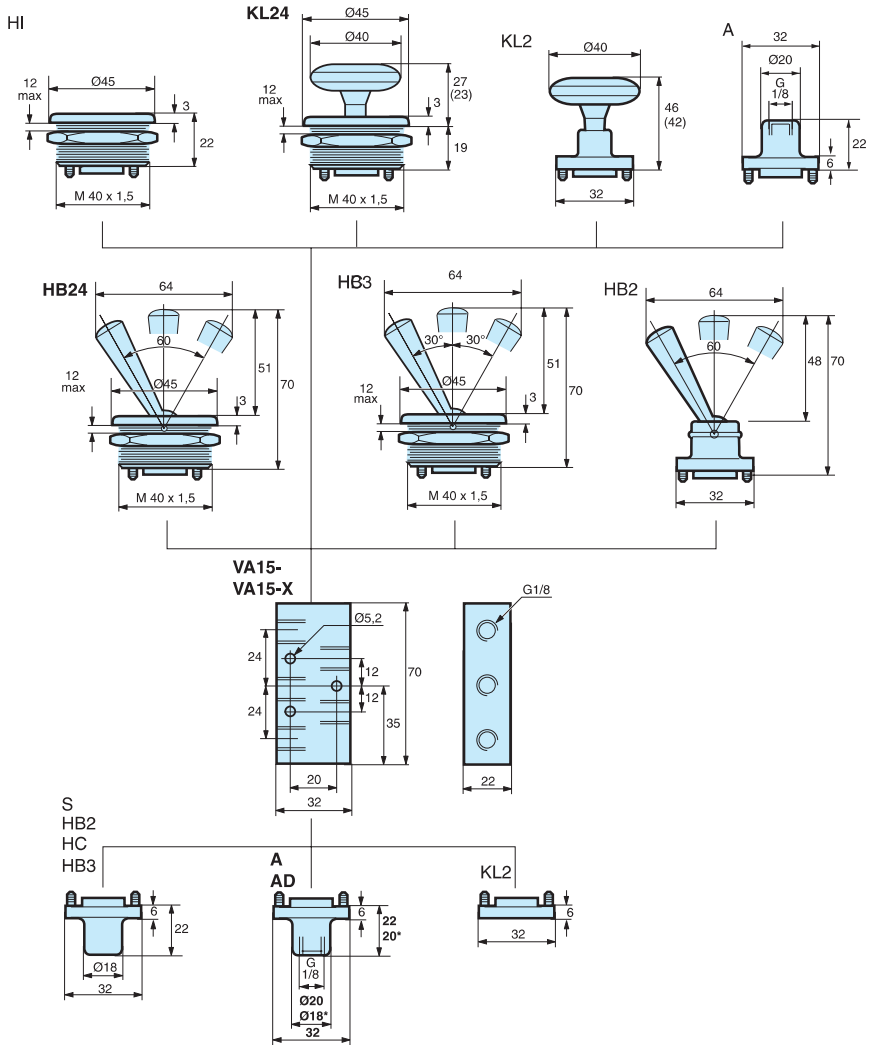
	Description	Order code
	Diaphragm	
	Diaphragm, black	9127359331
	Diaphragm, yellow	9127359332
	Mounting ring	9127359334

 Indicates stocked product.

Dimensions



Dimensions



Compact 3/2 normally closed metal bodied valves with push-in air connections. Designed for the process duty cycle with high durability. Ideal for the process or packaging industry.


- High durability
- Very good repeat accuracy
- Design for process duty cycle
- Push-in connection
- Versatile and easily maintained
- Miniature size



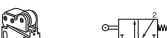
Operating information

Working pressure; PXC-M	3 to 8 bar			
Working temperature	-15 °C to +60 °C			
	PXC-M111	PXC-M121	PXC-M521	PXC-M601
Flow (Qmax):	60 l/min	85 l/min	250 l/min	250 l/min


Bore Ø1,5 mm, flow 60 NI/min

Symbol	Actuator	Return	Operating forces at 6 bar, N	Order code
	Steel plunger	Spring	11	PXC-M111

Bore Ø1,5 mm, flow 85 NI/min




Symbol	Actuator	Return	Operating forces at 6 bar, N	Order code
	Plastic roller	Spring	4,5	PXC-M121
	Steel roller	Spring	4,5	PXC-M131


Bore Ø2,5 mm, flow 250 NI/min

Symbol	Actuator	Return	Operating forces at 6 bar, N	Order code
	Plastic roller	Spring	7	PXC-M521

3/2 compact limit switches - With Ø4mm Push-in connections with pipeable exhaust port

Bore Ø2,5mm, flow 250 NI/min - With plunger head

Symbol	Actuator	Return	Operating forces at 6 bar, N	Order code
	Steel plunger	Spring	24	PXC-M601A110
	Steel roller plunger	Spring	24	PXC-M601A102
	90° Steel roller plunger	Spring	24	PXC-M601A103

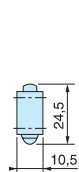
 Indicates stocked product.

Dimensions, Limit switches, Series PXC

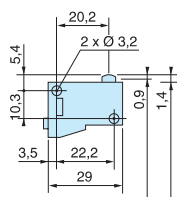
All dimensions in mm unless otherwise stated

3/2 miniature limit switches

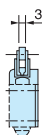
PXC-M111



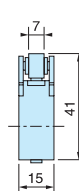
PXC-Z12



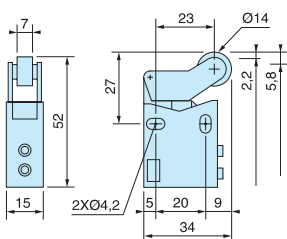
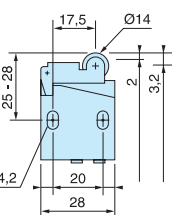
PXC-Z11



PXC-M121 - PXC-M131

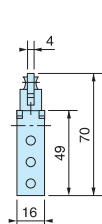


PXC-M521

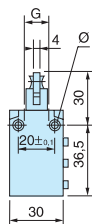
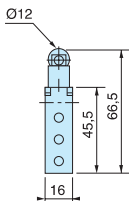
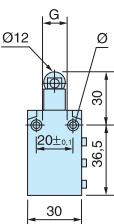


3/2 compact limit switches

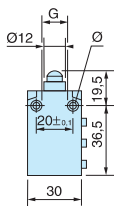
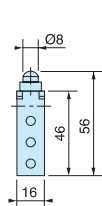
PXC-M601A102



PXC-M601A103



PXC-M601A110



Logic processing

Miniature high-speed valves in stand alone, stackable or combined modules, incorporating standard logic functions. The range also includes timers and impulse modules.

- Complete range
- Stand alone, stackable or combinable modules
- Very fast response time
- Flexible and highly maintainable system
- DIN rail mounting
- Ø 4mm connection

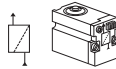


Operating information

Working pressure	3 to 8 bar
Working temperature	-15 °C to 60 °C
Flow (Qmax)	180 l/min (PRD = 60 l/min)
ATEX approval:	CE Ex II 2 GD c 85°C
For ATEX specific products contact Sales Office	
For technical information see CD	

Logic sequencer

Step modules



Order code

Without sub base Pneumatic output	PSM-A10
Visual indication of pneumatic output and manual override	PSM-A12
With sub base Without manual override	PSM-B12

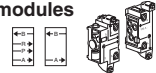
Step module subbase



Order code

Subbase	PSB-A12
Additional interlock	PSV-A12

Set of head and tail modules and deviation modules

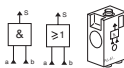


Order code

Head & tail set	PSE-A12
Deviation standard	PSD-A12
Deviation for remote	PSD-B12

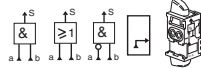
Logic elements

Line mounted elements



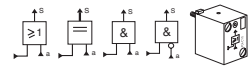
Logic Function	Order code
AND	PLL-A11
OR	PLK-A11
Clip on Din-rail	PZM-L199

Combinable elements



Logic Function	Order code
AND	PLL-B12
OR	PLK-B12
NOT	PLN-B12
INPUT	PLE-B12

Subbase mounted elements



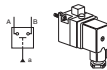
Logic Function	Order code
AND	PLL-C10
NOT inhibit standard	PLN-C10
NOT inhibit threshold	PLN-D10
OR	PLK-C10
YES regenerated	PLJ-C10

3 port subbase to be ordered separately.

Logic relays

Pressure switch

To be used with 3 port subbase

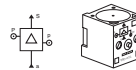


Order code

With subbase	PRE-A12
Without subbase	PRE-A10

Amplifier relays

To be used with 4 port subbase



Order code

With subbase	PRD-A12
Without subbase	PRD-A10

Memory relays

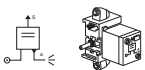
To be used with 4 port subbase



Order code

With subbase	PLM-A12
Without subbase	PLM-A10

Sensor relays



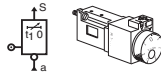
Order code

With subbase	PRF-A12
Without subbase	PRF-A10

Indicates stocked product.

Time delay relays

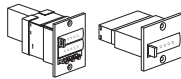
To be mounted on 3 port subbase



Function	Timing	Order code
Output after timed period	0,1 to 3s	PRT-E10
	0,1 to 30s	PRT-A10
	10 to 180s	PRT-B10
With subbase	0,1 to 30s	PRT-A12
Output during timed period	0,1 to 3s	PRT-F10
	0,1 to 30s	PRT-C10
	10 to 180s	PRT-D10

Impulse counters

Flush mounting
Pneumatic or manual reset



	Order code
*Surface mounting	PCT-A11
*Flush mounting	PCT-B11
Surface mounting	PCP-A11

* Totalising counters

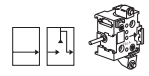


Not elements

Description	Order code
PLNC10 on PZUA12 subbase	PLN-C12
PLND10 on PZUA12 subbase	PLN-D12

Subbase for logic elements and relays

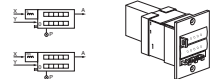
3 port and 4 port subbases



	Order code
Input module	PZU-E12
3 port "common input"	PZU-A12
3 port "cascade"	PZU-C12
4 port subbase*	PZU-B12

* For combination with memory relay and amplified relay.

Timers



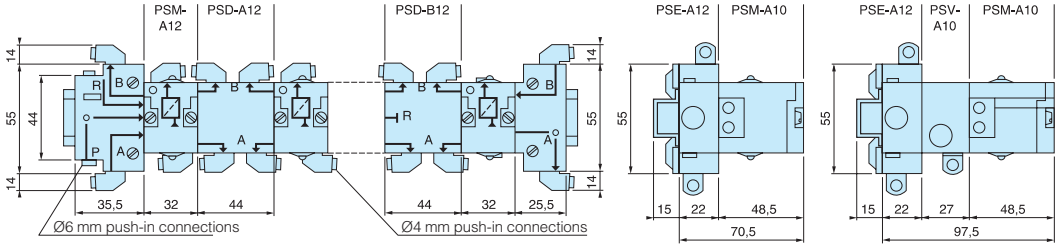
Time base	Time range	Order code
1 second	1 second to 27 hours	PCM-A11
1 minute	1 minute to 69 days	PCM-B11
2 minutes	3 to 100 seconds	PCM-C11
2 minutes	3 to 10 minutes	PCM-D11
2 minutes	3 to 100 minutes	PCM-E11

 Indicates stocked product.

Logic processing

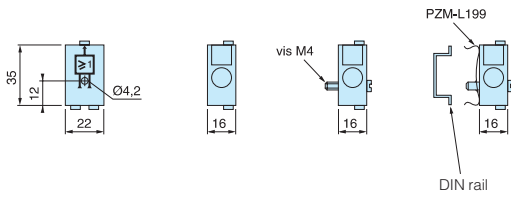
Dimensions, Logic processing

Modular sequencer



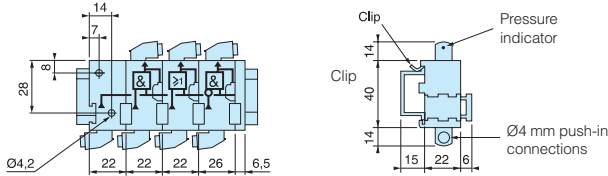
Line mounted logic elements

PLL-A11 and PLK-A11



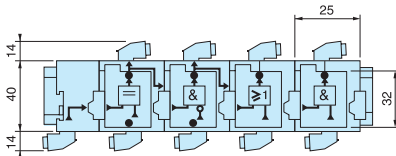
Combinable logic elements

PLE-B12 — PLL-B12 — PLK-B12 and PLN-B12

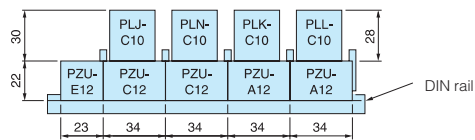


Logic elements mounted on 3-port modular subbases

PZU-E12

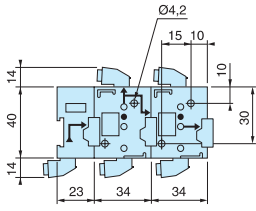


PLJ-C10 — PLN-C10 — PLK-C10 and PLL-C10 mounted on PZU-C12 and PZU-A12

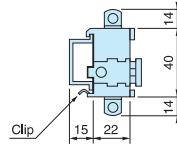
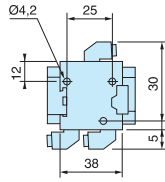


3 and 4-port modular subbases

PZU-E12 — PZU-C12 — PZU-A12

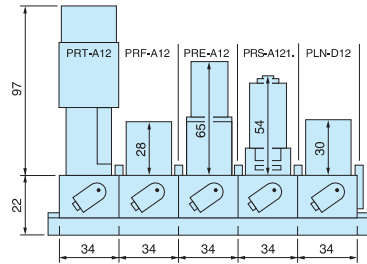
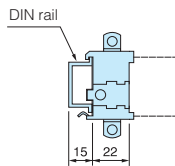
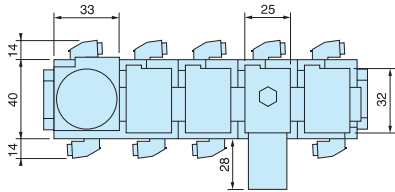


PZU-B12



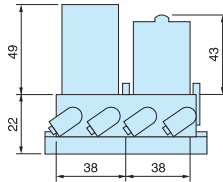
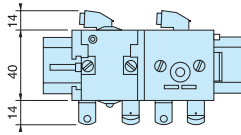
Relays mounted on 3-port modular subbases

PRT-A12 — PRF-A12 — PRE-A12 — PRS-A121 and PLN-D12



Relays mounted on 4-port modular subbases

PLM-A12 and PRD-A12

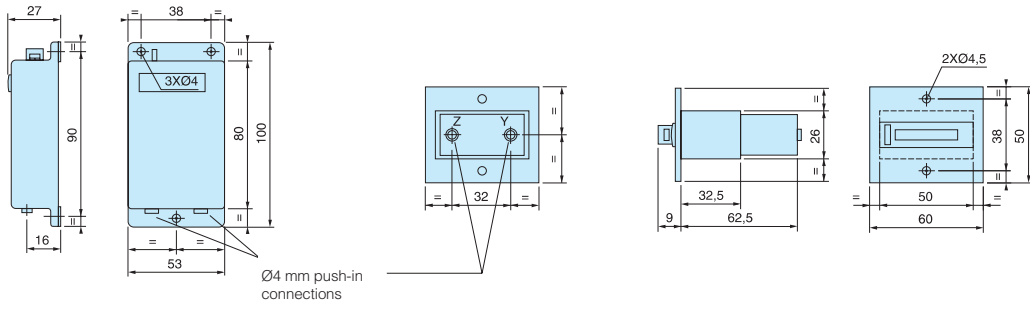


Logic processing

Totalling counters

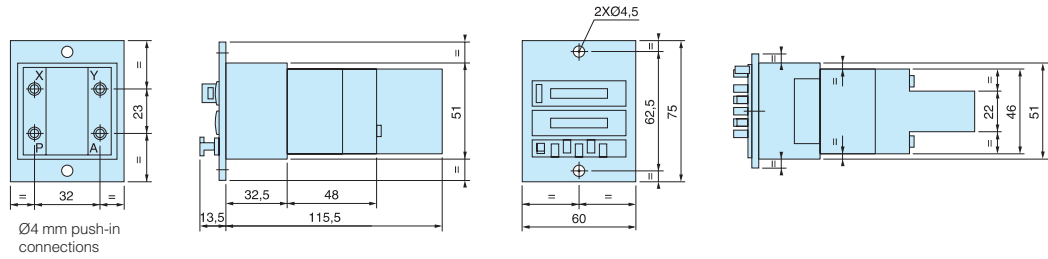
PCT-A11

PCT-B11



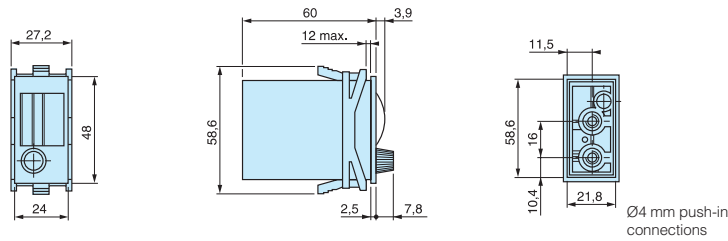
Digital display timers

PCM-A11 to PCM-B11



Timers with calibrated dial

PCM-F11 and PCM-G11



High flow shut off valves for isolating downstream equipment. Air pilot or solenoid actuated versions available.



- In line installation
- High flow
- Internal supply for signal air
- Suitable as main shut-off or as power valve for cylinder and air motor
- Optional low-pressure hydraulic version

Operating information

	VE22/23	VE42/43	VE82/83
Working pressure	Max 10 bar	Max 10 bar	Max 10 bar
Working temperature	-10 °C to +70 °C		
Flow, C=	5,4 l/s, bar	20,3 l/s, bar	52 l/s, bar
(acc. to ISO 6358)	(b=0,4)	(b=0,4)	(b=0,35)
Qn=	24,5 l/s	92 l/s	228 l/s
Qmax=	37,8 l/s	142,1 l/s	364 l/s
Signal pressure at 6 bar	Min 3,5 bar	Min 3,5 bar	Min 3 bar
Port 3 must not be plugged or pressurised			
Prelubricated, further lubrication is not normally necessary			
If additional lubrication is introduced it must be continued			

Airline Isolator Valves, VE22-83 series

Type	Symbol	Actuator	Return	Operating pressure, at 6 bar	Port size	Order code
2-port valves, NC		Air pilot	Spring	3,5	G1/4	VE22-A-S-5*
		Air pilot	Spring	3,5	G1/2	VE22-A-S-5-BOO
		Air pilot	Spring	3,5	G1	VE42-A-S-5*
						VE42-A-S-5-BOO
3-ports valves, NC		Air pilot	Spring	3,5	G1/4	VE23-A-S-5*
		Air pilot	Spring	3,5	G1/2	VE43-A-S-5*
		Air pilot	Spring	3,5	G1	VE83-A-S-5*

* For electrically actuated, please order 1 pcs adaptor set, 1 pcs solenoid VE13 and 1 pcs cable connector

Solenoid 32mm form A without cable plug

NC	Voltage	Order code
	24 VDC	VE13-ESC042C2
	24 VAC 50Hz	VE13-ESC044C2
	110 VAC 50Hz	VE13-ESC044E2
	220 VAC 50Hz	VE13-ESC044H2
	240 VAC 50Hz	VE13-ESC044K2

Cable plug, suitable for VE13

Description	Order code
24V, LED+Diode	9125998004
24V AC/DC, LED+VDR	9125998006
110V AC/DC, LED+VDR	9125998008
240V AC/DC, LED+VDR	9125998010
Black	9125998011

Adaptor set for VE13-ES

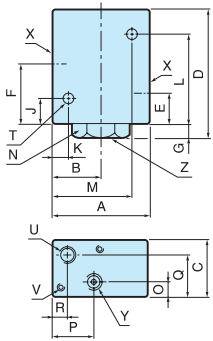
Order code
4145064590



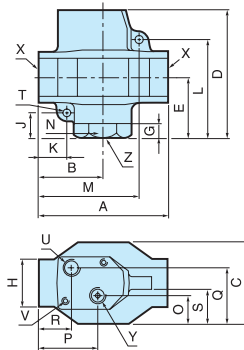
Indicates stocked product.

Dimensions, Airline Isolator Valves

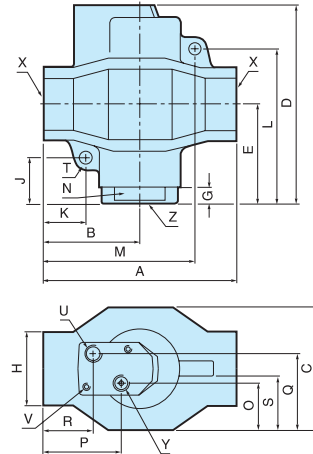
VE22/VE23



VE42/VE43



VE82/VE83



Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S
VE22/VE23	60	30	35	82,5	21	36	6	-	14	10	54	50	30	9,0	26,0	26,0	9,0	-
VE42/43	82	41	50	88,8	40	-	8	30	17	18	63	64	30	16,5	38,5	33,5	21,5	21,0
VE82/VE83	120	60	75	133,3	60	-	10	45	26	26	94	94	45	29,0	46,5	46,0	29,5	32,5

Type	T	U	V	X	Y	Z
VE22/VE23	6,5	G1/8	M4	G1/4	G1/8	G1/4
VE42/43	6,5	G1/8	M4	G1/2	G1/8	G1/2
VE82/VE83	8,5	G1/8	M4	G1	G1/8	G1

Ergonomically designed units to provide protection against accidental operation of machines. Completely sealed units prevent tampering and comply with latest European safety standards.



- Ergonomic design
- Robust polymer or metal enclosure
- Meets requirements for protection against accidental operation and tampering
- Metal enclosure features a wrist-rest bar which helps prevent illness due to repetitive actions
- Conforms to EN574 and EN954-1 requirements

Operating information

Working pressure	3 to 8 bar
Working temperature	-5 °C to +60 °C
For technical information see CD	

Control module only

Symbol	Connections	Order code
	Ø4 mm Push-in	PXP-A11

Complete units

Polymer enclosure, with two Ø40 mm push button with protective guards and control module

Symbol	Connections	Number of control modules	Order code
	Ø4 mm Push-in	1	PXP-C111
	Ø4 mm Push-in	2	PXP-D121

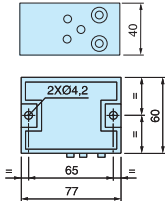
Metal enclosure, with two Ø60 push buttons, wrist restbar, built in protective guard and control module

Symbol	Connections	Number of control modules	Order code
	Push-in Ø6 mm for supply Ø4 mm for output	1	PXP-S111
	Push-in Ø6 mm for supply Ø4 mm for output	2	PXP-S121

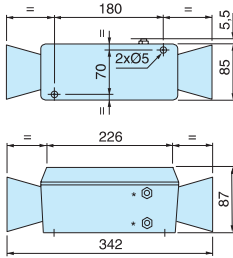
Indicates stocked product.

Dimensions

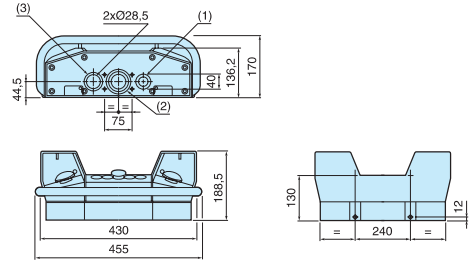
PXP-A11



PXP-C111 and PXP-D121



PXP-S111 and PXP-S121



- * Ø4 mm push-in connections
- ** Ø6 mm push-in connections