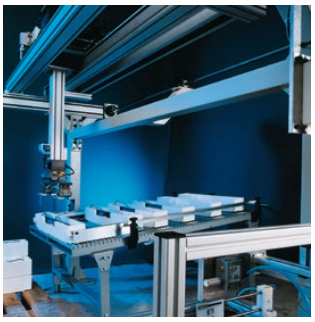
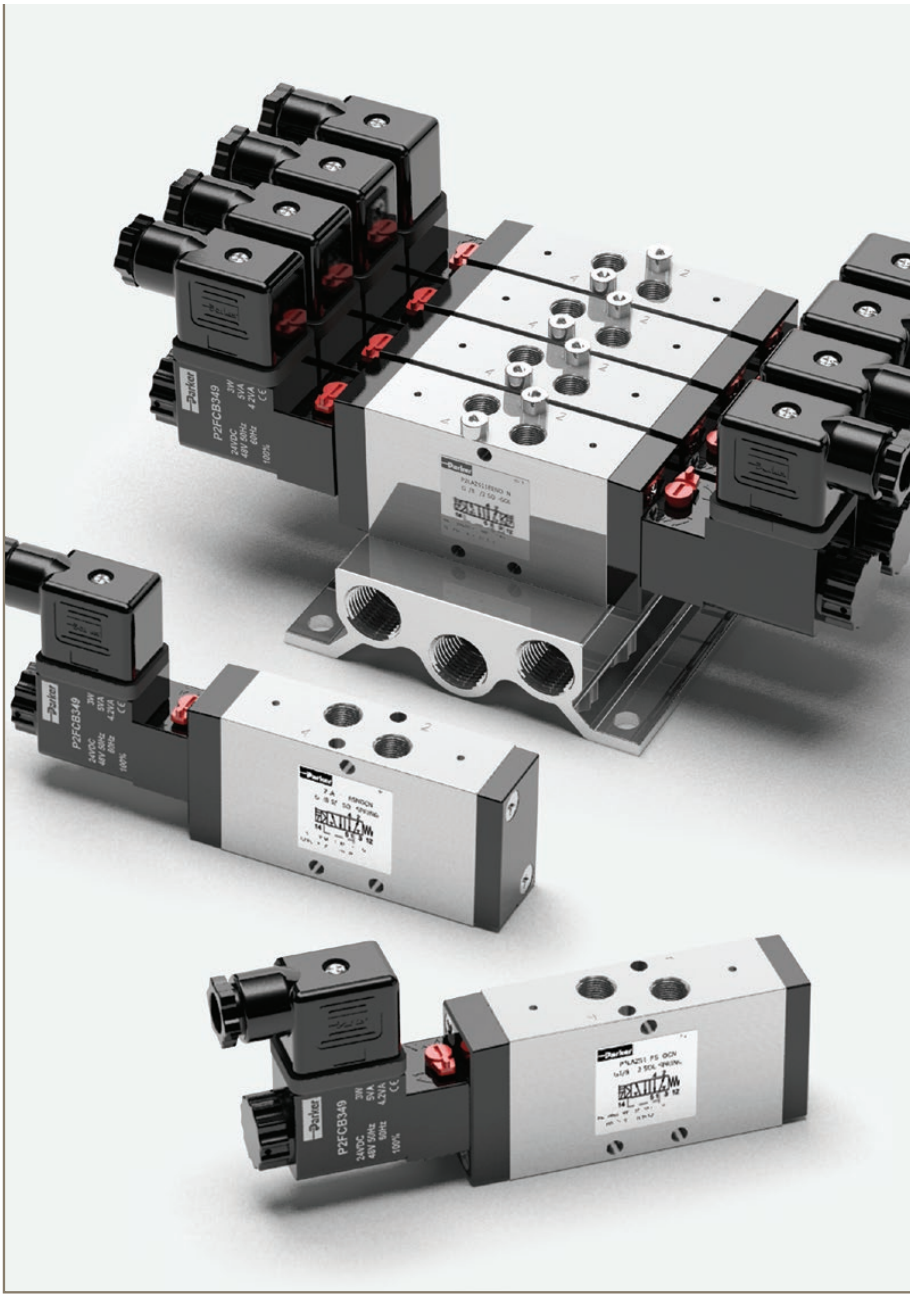




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





# Pneumatic Valves
# Viking Lite Series

## G1/8 - G3/8 body ported

Catalogue PDE2658TCUK 11/2021



Parker

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

**NB !**
All technical data in this catalogue is typical only.

The air quality is decisive for the valve life: see ISO 8573.

**WARNING**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.
This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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# Viking Lite ...

## robust, versatile high performance with long service life

The Viking Lite valve range is robust, versatile and combines high performance with compact installation dimensions. The choice of G1/8, G1/4 or G3/8 port sizes provide large flow capacity, short change-over times for maximum productivity and the low change-over pressure
is an important characteristic of this valve range.

Designed to operate with pressures up to 10 bar in temperatures -10°C to + 50°C.

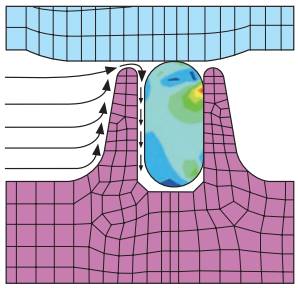
### Wear compensating system

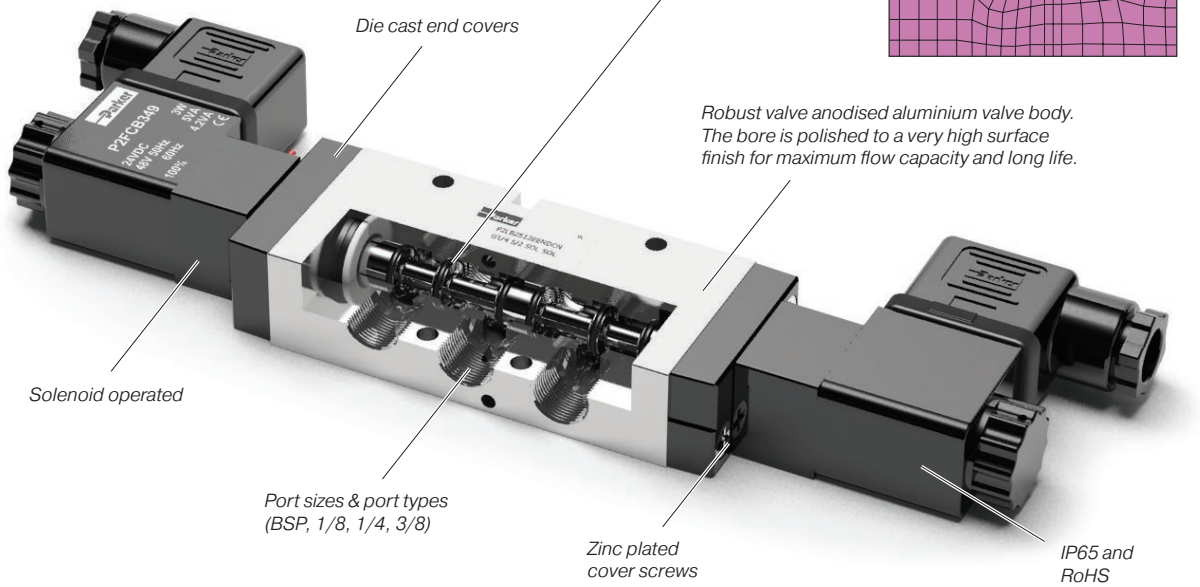
Viking Lite valves are fitted with dynamic bi-directional spool seals suitable for pressures up to 10 bar, in ambient temperatures -10°C to + 50°C. Under pressure radial expansion of the seal occurs to maintain sealing contact with the valve bore.
This sealing method reduces friction gives lower pilot pressures, providing fast response and less wear.
Valves do not require lubrication in operation but they can also be installed in systems that are lubricated.

## Viking Lite range

**P2LAZ, G1/8 - Cv = 0.6**
**P2LBZ, G1/4 - Cv = 1.5**
**P2LCZ, G3/8 - Cv = 2.5**

WCS
Wear Compensating System





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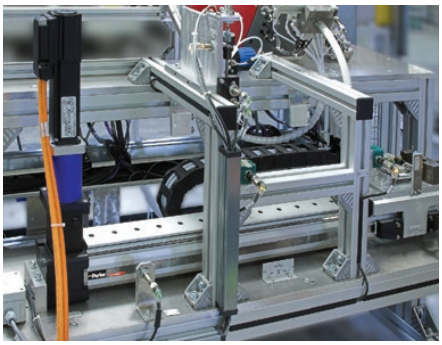
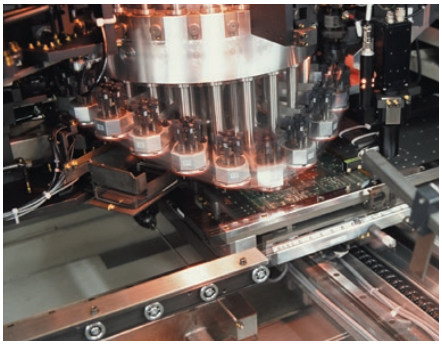
# Viking Lite ...

## rust and corrosion resistant, high reliability with flexible installation







**Rust and corrosion resistant designs.**
Viking Lite valves are made of anodized aluminium, for good corrosion resistance.
The smooth design, with no dirt-collecting pockets, makes the valve suitable for most environments.

**High reliability**
Viking Lite valves easily comply with the requirements for the component reliability
in accordance with EU Machinery Directive standards EN292-2 and EN983.
The valves are designed for use with or without supplementary lubrication.

**Compact dimensions for flexibility in installations**
Compact dimensions, direct body porting and integral mounting holes are all features
of the Viking Lite range.
In addition to single valve installation, the Viking Lite valves may be installed on manifolds so that the valves have a common supply and manifolded exhausts.

**Manifold bar installation**
A manifold bar, with common ducts for ports 1, 3 and 5 gives simple, time saving and easily serviced installation. Manifold bars are available in several different sizes, with space for between 2 and 14 valves.

**Pressure bar installation**
A pressure bar for common primary air supply gives a simple, robust, time saving and easily serviced installation.
When pressure bars are used, restrictor-silencers can be installed in the exhaust ports of each valve, for individual adjustment of cylinder/air motor speed.
Pressure bars are available in a number of different sizes, with space ranging from 2 to 10 valves.

**Extreme applications**
For extreme applications, -40 degrees and up to 16 bar pressure use
**VikingXtreme valves** :
see catalogue PDE2569TCUK

## Working medium, air quality

Working medium: Dry, filtered compressed air to ISO 8573-1 class 3.4.3.

### Recommended air quality for valves

For best possible service life and trouble free operation, ISO 8573-1 quality class 3.4.3 should be used. This means 5µm filter (standard filter) dew point +3°C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/m³, which is what a standard compressor with a standard filter gives.

### ISO 8573-1 quality classes

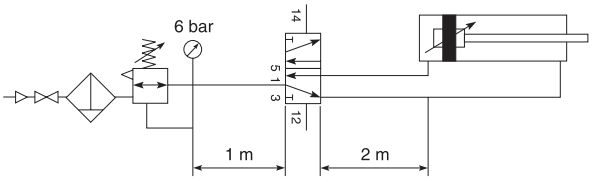
| Quality class | Pollution particle size (µm) | Pollution max. concentration (mg/m³) | Water max. press. dew point (°C) | Oil max. concentration (mg/m³) |
|---|---|---|---|---|
| **1** | 0,1 | 0,1 | -70 | 0,01 |
| **2** | 1 | 1 | -40 | 0,1 |
| **3** | 5 | 5 | -20 | 1,0 |
| **4** | 15 | 8 | +3 | 5,0 |
| **5** | 40 | 10 | +7 | 25 |
| **6** | - | - | +10 | - |

### Typical cylinder speeds which can be achieved with Viking valves and different tube sizes.

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

Following data is valid:

Supply pressure : min 7.0 bar
Regulator pressure setting : 6.0 bar
Pipe length between air treatment unit and valve : max 1m
Pipe length between valve and cylinder : max 2m




| Cylinder bore | <20 | 20-32 | 40-50 | 63 | 80 | 100 | 125 |
|---|---|---|---|---|---|---|---|
| **Cylinder port** | M5 | G1/8 | G1/4 | G3/8 | G3/8 | G1/2 | G1/2 |
| **Tubing Ext/Int** | 4/2.7 | 6/4 | 8/6 | 10/8 | 10/8 | 12/9 | 14/11 |
| | | | 6/4 | 8/6 | 12/9 | 14/11 | |
| **P2LAZ** | G1/8 | G1/8 | G1/8 | G1/8 | G1/8 | | |
| **P2LBZ** | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | G1/4 | |
| **P2LCZ** | | | G3/8 | G3/8 | G3/8 | G3/8 | G3/8 |

Cylinder speed < 0,5 m/s
Cylinder speed < 1 m/s
Oversized
Cylinder speed > 1 m/s



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## Material specification

### P2LAZ

#### Valve

| | |
|---|---|
| Valve body | Anodised aluminium |
| End covers | Anodised aluminium |
| Spool | Aluminium |
| Piston | Acetal plastic/ Anodised aluminium |
| End cover sealings | Nitrile rubber |
| End cover screws | Zinc plated steel |
| Springs | Stainless steel |
| Mounting screws for solenoid | Stainless steel |
| Spool seals | Nitrile |
| Pilot adaptor | Acetal plastic |

#### Accessories

| | |
|---|---|
| Manifold bar | Anodised aluminium |
| Pressure bar | Anodised aluminium |

### P2LBZ

#### Valve

| | |
|---|---|
| Valve body | Anodised aluminium |
| End covers | Anodised aluminium |
| Spool | Aluminium |
| Piston | Acetal plastic/ Anodised aluminium |
| End cover sealings | Nitrile rubber |
| End cover screws | Zinc plated steel |
| Springs | Stainless steel |
| Mounting screws for solenoid | Stainless steel |
| Spool seals | Nitrile |
| Pilot adaptor | Acetal plastic |

#### Accessories

| | |
|---|---|
| Manifold bar | Anodised aluminium |
| Pressure bar | Anodised aluminium |

### P2LCZ

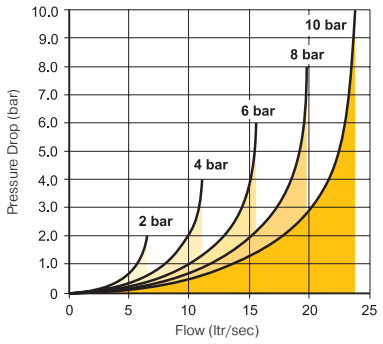
#### Valve

| | |
|---|---|
| Valve body | Anodised aluminium |
| End covers | Anodised aluminium |
| Spool | Aluminium |
| Piston | Acetal plastic/ Anodised aluminium |
| End cover sealings | Nitrile rubber |
| End cover screws | Zinc plated steel |
| Springs | Stainless steel |
| Mounting screws for solenoid | Stainless steel |
| Spool seals | Nitrile |
| Pilot adaptor | Acetal plastic |

## Flow characteristics

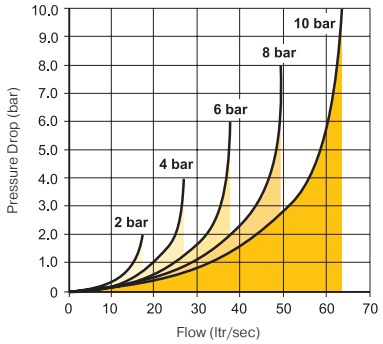
Flow capacities in accordance with ISO6358
All pressures = effective pressure
The curves in the diagram below are typical only

### Technical Data P2LAZ



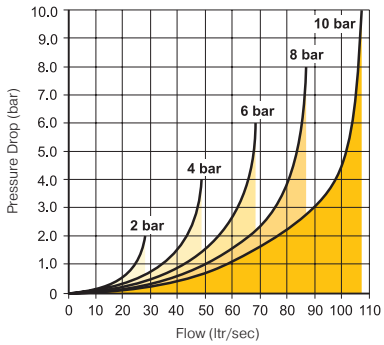

| | |
|---|---|
| Port size | G1/8 |
| Maximum Operating pressure | 10 bar |
| Working temperature. | -10°C to + 50°C |
| Flow (acc. to ISO 6358) | c = 2.2 Nl/s x bar |
| | b = 0.3 |
| | Qn = 10.1 l/s |
| | Qmax = 15.6 l/s |
| | Cv = 0.6 |

### Technical Data P2LBZ




| | |
|---|---|
| Port size | G1/4 |
| Maximum Operating pressure | 10 bar |
| Working temperature. | -10°C to + 50°C |
| Flow (acc. to ISO 6358) | c = 5.4 Nl/s x bar |
| | b = 0.3 |
| | Qn = 24.6 l/s |
| | Qmax = 37.8 l/s |
| | Cv = 1.5 |

### Technical Data P2LCZ




| | |
|---|---|
| Port size | G3/8 |
| Maximum Operating pressure | 10 bar |
| Working temperature. | -10°C to + 50°C |
| Flow (acc. to ISO 6358) | c = 9.7 Nl/s x bar |
| | b = 0.3 |
| | Qn = 41.5 l/s |
| | Qmax = 68.3 l/s |
| | Cv = 2.5 |



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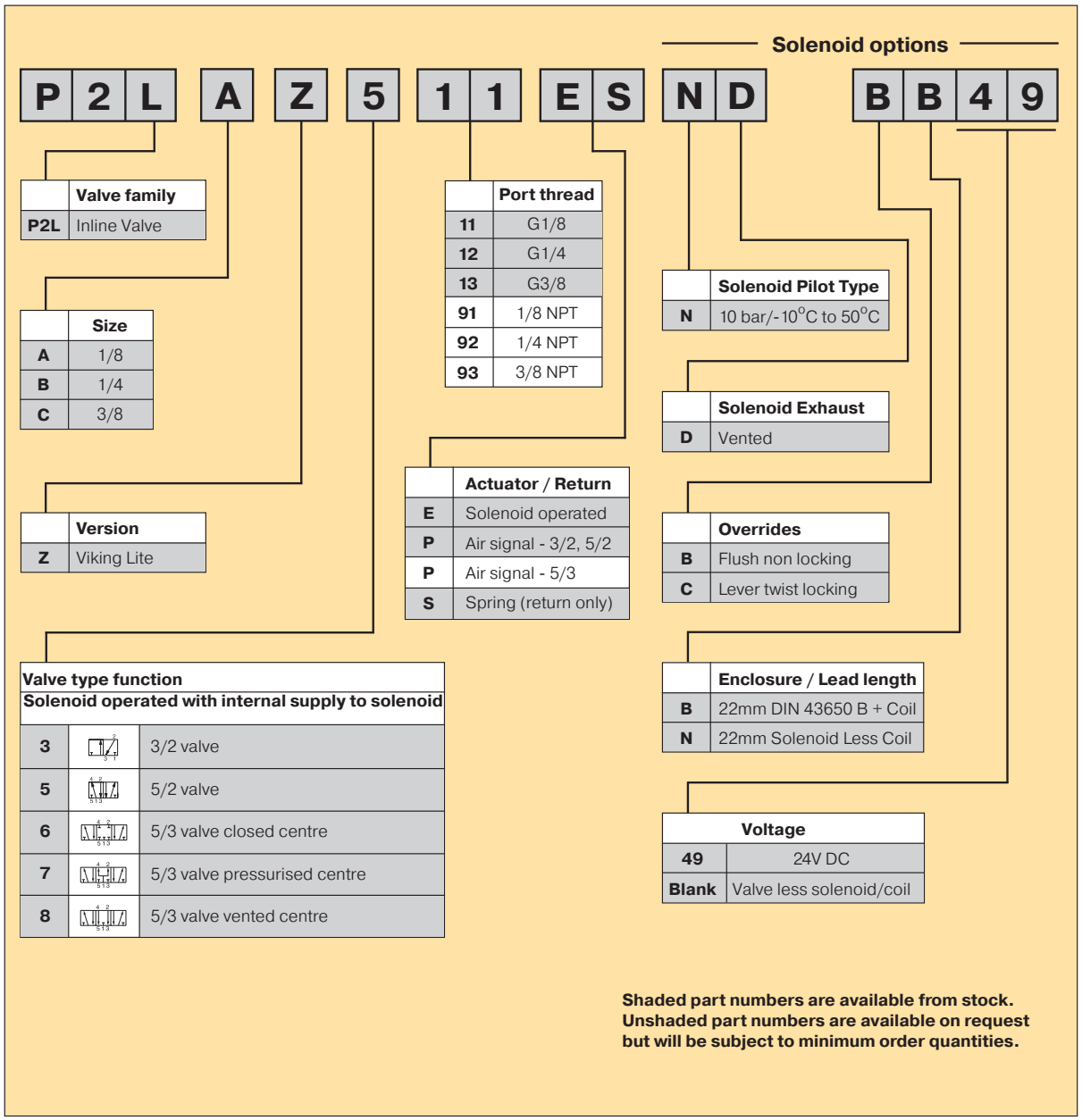
## Viking Lite Part Number System



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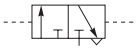
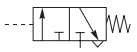
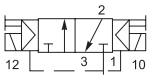
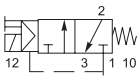
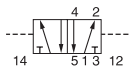
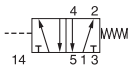
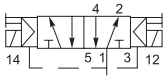
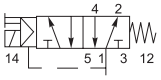
## Solenoid operated directional control valves

**Internal supply to solenoid valve(s) via port 1.**
**Max operating pressure 10 bar, temperature range -10°C to +50°C**

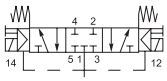
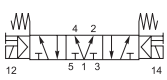
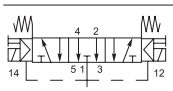
### 3/2 valves, internal air, standard temperature

| Symbol | Size | Actuation | Return | Min Operating Pressure (bar) | Changeover time (ms) at 6 bar @20°C actua./return | Weight Kg | Order code Without coil | Order code With 24V DC (22mm coil) |
|---|---|---|---|---|---|---|---|---|
|  | G1/8 | Air signal | Air signal | 1.5 | 5/5 | 0.18 | **P2LAZ311PP** | |
| | G1/4 | | | 1.5 | 6/6 | 0.18 | **P2LBZ312PP** | |
| | G3/8 | | | 1.5 | 8/8 | 0.36 | **P2LCZ313PP** | |
|  | G1/8 | Air signal | Spring | 3.0 | 8/15 | 0.16 | **P2LAZ311PS** | |
| | G1/4 | | | 3.0 | 10/20 | 0.16 | **P2LBZ312PS** | |
| | G3/8 | | | 3.0 | 10/30 | 0.35 | **P2LCZ313PS** | |
|  | G1/8 | Electric signal | Electric signal | 1.5 | 10/10 | 0.18 | **P2LAZ311EENDCN** | **P2LAZ311EENDCB49** |
| | G1/4 | | | 1.5 | 12/12 | 0.18 | **P2LBZ312EENDCN** | **P2LBZ312EENDCB49** |
| | G3/8 | | | 1.5 | 17/17 | 0.36 | **P2LCZ313EENDCN** | **P2LCZ313EENDCB49** |
|  | G1/8 | Electric signal | Spring | 3.0 | 15/35 | 0.16 | **P2LAZ311ESNDCN** | **P2LAZ311ESNDCB49** |
| | G1/4 | | | 3.0 | 18/45 | 0.16 | **P2LBZ312ESNDCN** | **P2LBZ312ESNDCB49** |
| | G3/8 | | | 3.0 | 27/75 | 0.35 | **P2LCZ313ESNDCN** | **P2LCZ313ESNDCB49** |

### 5/2 valves, internal air, standard temperature

| Symbol | Size | Actuation | Return | Min Operating Pressure (bar) | Changeover time (ms) at 6 bar @20°C actua./return | Weight Kg | Order code Without coil | Order code With 24V DC (22mm coil) |
|---|---|---|---|---|---|---|---|---|
|  | G1/8 | Air signal | Air signal | 1.5 | 5/5 | 0.18 | **P2LAZ511PP** | |
| | G1/4 | | | 1.5 | 6/6 | 0.18 | **P2LBZ512PP** | |
| | G3/8 | | | 1.5 | 8/8 | 0.36 | **P2LCZ513PP** | |
|  | G1/8 | Air signal | Spring | 3.0 | 8/15 | 0.16 | **P2LAZ511PS** | |
| | G1/4 | | | 3.0 | 10/20 | 0.16 | **P2LBZ512PS** | |
| | G3/8 | | | 3.0 | 10/30 | 0.35 | **P2LCZ513PS** | |
|  | G1/8 | Electric signal | Electric signal | 1.5 | 10/10 | 0.19 | **P2LAZ511EENDCN** | **P2LAZ511EENDCB49** |
| | G1/4 | | | 1.5 | 12/12 | 0.21 | **P2LBZ512EENDCN** | **P2LBZ512EENDCB49** |
| | G3/8 | | | 1.5 | 17/17 | 0.44 | **P2LCZ513EENDCN** | **P2LCZ513EENDCB49** |
|  | G1/8 | Electric signal | Spring | 3.0 | 15/35 | 0.17 | **P2LAZ511ESNDCN** | **P2LAZ511ESNDCB49** |
| | G1/4 | | | 3.0 | 18/45 | 0.20 | **P2LBZ512ESNDCN** | **P2LBZ512ESNDCB49** |
| | G3/8 | | | 3.0 | 27/75 | 0.43 | **P2LCZ513ESNDCN** | **P2LCZ513ESNDCB49** |

### 5/3 valves, internal air, standard temperature

| Symbol | Size | Actuation | | Min Operating Pressure (bar) | Changeover time (ms) at 6 bar @20°C actua./return | Weight Kg | Order code Without coil | Order code With 24V DC (22mm coil) |
|---|---|---|---|---|---|---|---|---|
|  | G1/8 | | Self centring | 3.0 | 18/40 | 0.26 | **P2LAZ611EENDCN** | **P2LAZ611EENDCB49** |
| | G1/4 | Electric/Electric | Closed | 3.0 | 22/55 | 0.28 | **P2LBZ612EENDCN** | **P2LBZ612EENDCB49** |
| | G3/8 | | Centre | 3.0 | 30/90 | 0.60 | **P2LCZ613EENDCN** | **P2LCZ613EENDCB49** |
|  | G1/8 | | Self centring | 3.0 | 18/40 | 0.26 | **P2LAZ711EENDCN** | **P2LAZ711EENDCB49** |
| | G1/4 | Electric/Electric | Presurised | 3.0 | 22/45 | 0.28 | **P2LBZ712EENDCN** | **P2LBZ712EENDCB49** |
| | G3/8 | | Centre | 3.0 | 30/90 | 0.60 | **P2LCZ713EENDCN** | **P2LCZ713EENDCB49** |
|  | G1/8 | | Self centring | 3.0 | 18/40 | 0.26 | **P2LAZ811EENDCN** | **P2LAZ811EENDCB49** |
| | G1/4 | Electric/Electric | Vented | 3.0 | 22/45 | 0.28 | **P2LBZ812EENDCN** | **P2LBZ812EENDCB49** |
| | G3/8 | | Centre | 3.0 | 30/90 | 0.60 | **P2LCZ813EENDCN** | **P2LCZ813EENDCB49** |



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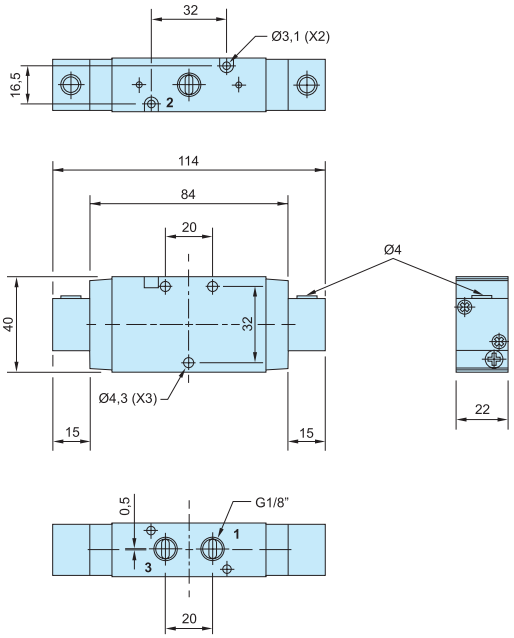
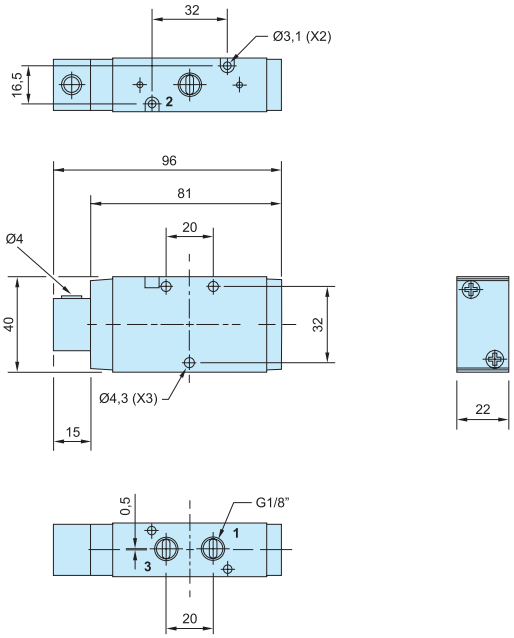
## Dimensions

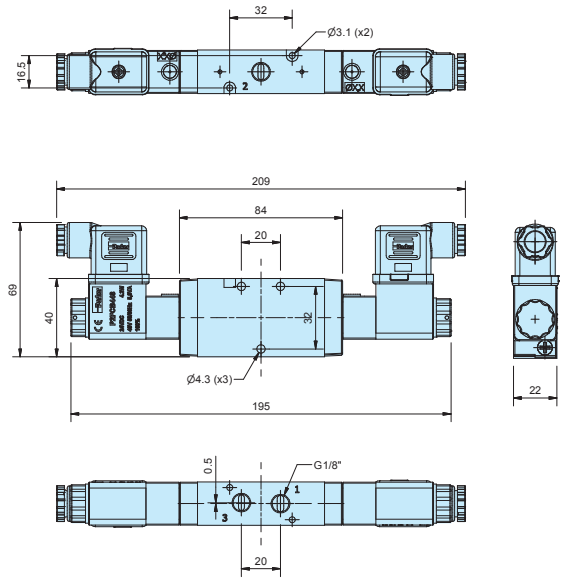
**P2LAZ 3/2**
**Air / Air**



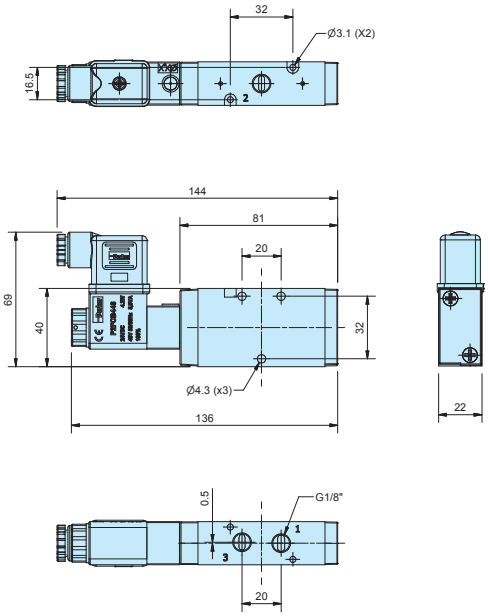

**P2LAZ 3/2**
**Air / Spring**




**P2LAZ 3/2**
**Solenoid / Solenoid**




**P2LAZ 3/2**
**Solenoid / Spring**




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



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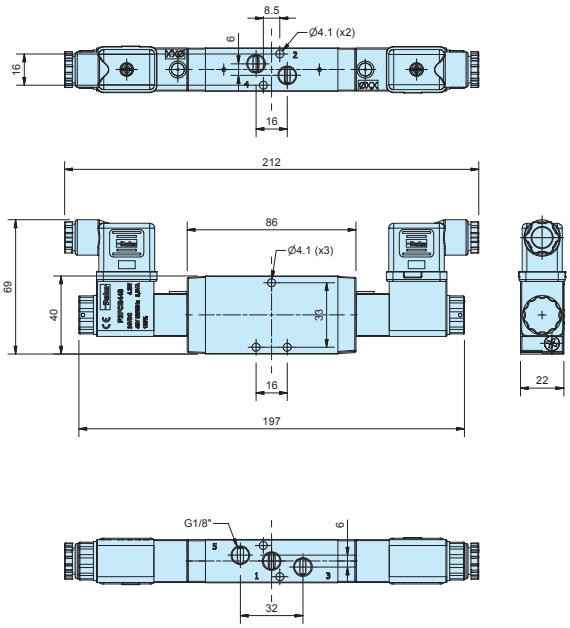
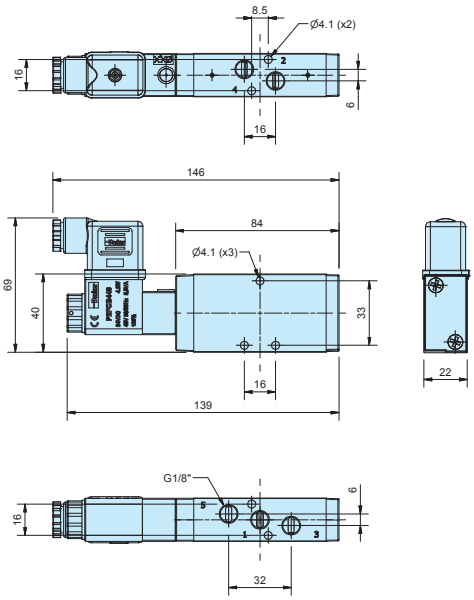
## Dimensions

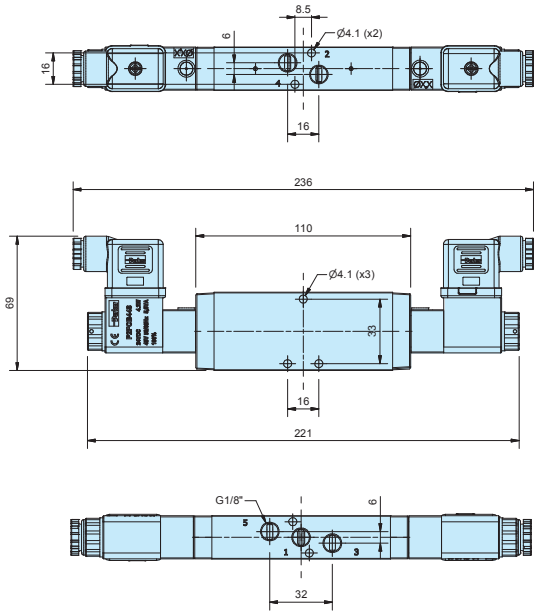
### P2LAZ 5/2
**Solenoid / Solenoid**

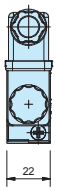



### P2LAZ 5/2
**Solenoid / Spring**




### P2LAZ 5/3
**Solenoid / Solenoid**




**Solenoid valves**
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One pilot valve is required for each E (NDCN only) in the valve order code.



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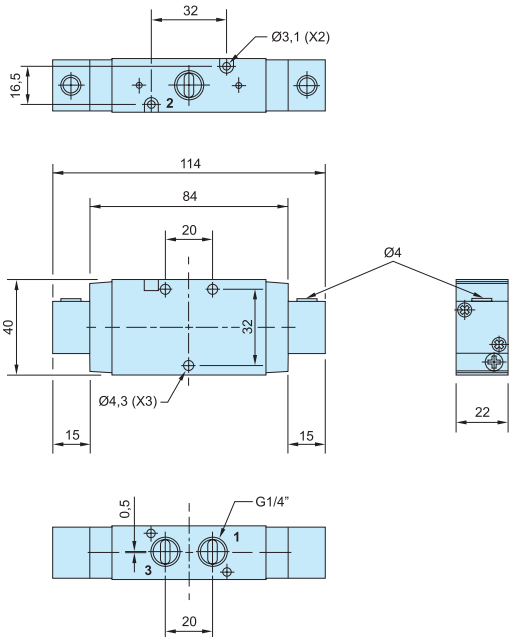
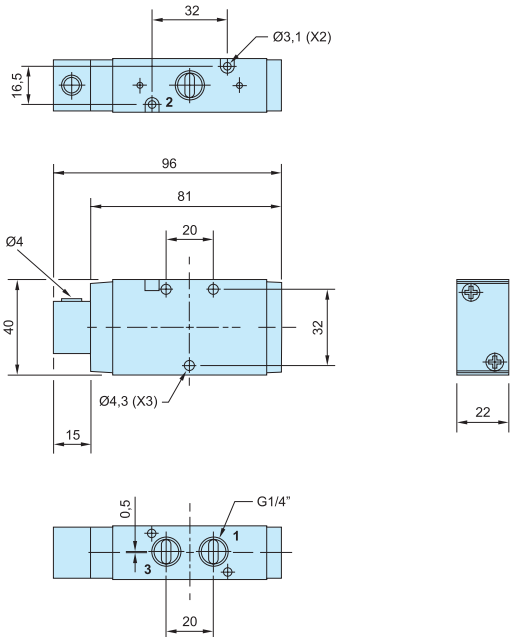
## Dimensions

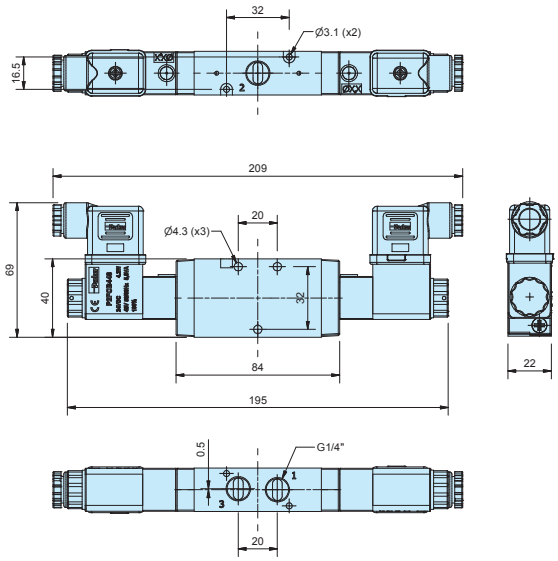
**P2LBZ 3/2**
**Air / Air**



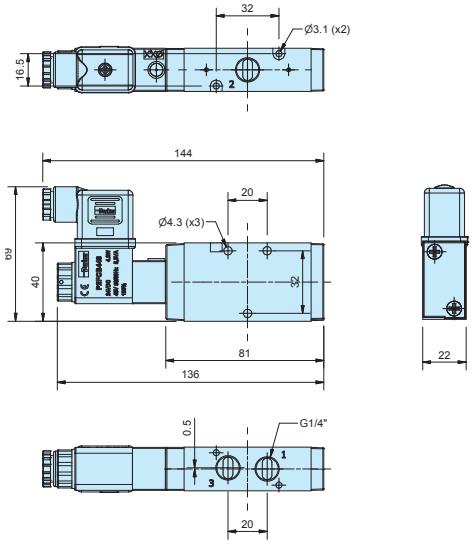

**P2LBZ 3/2**
**Air / Spring**




**P2LBZ 3/2**
**Solenoid / Solenoid**




**P2LBZ 3/2**
**Solenoid / Spring**




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



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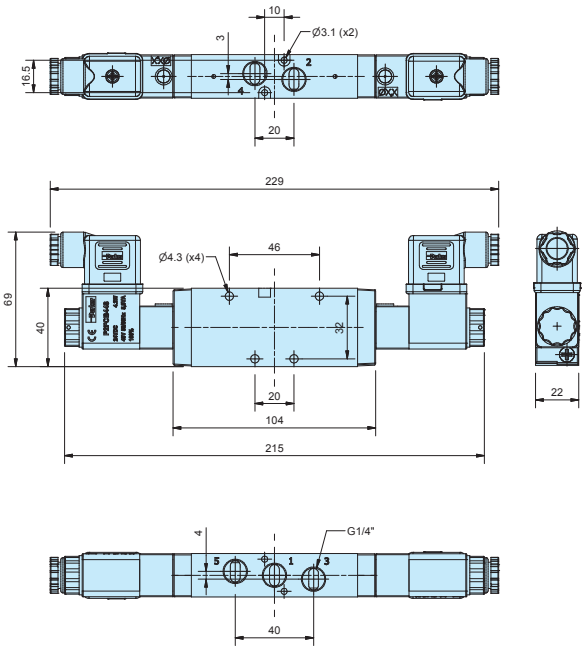
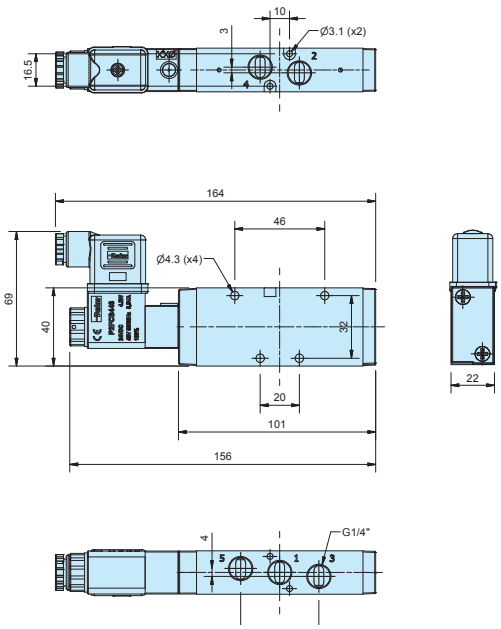
## Dimensions

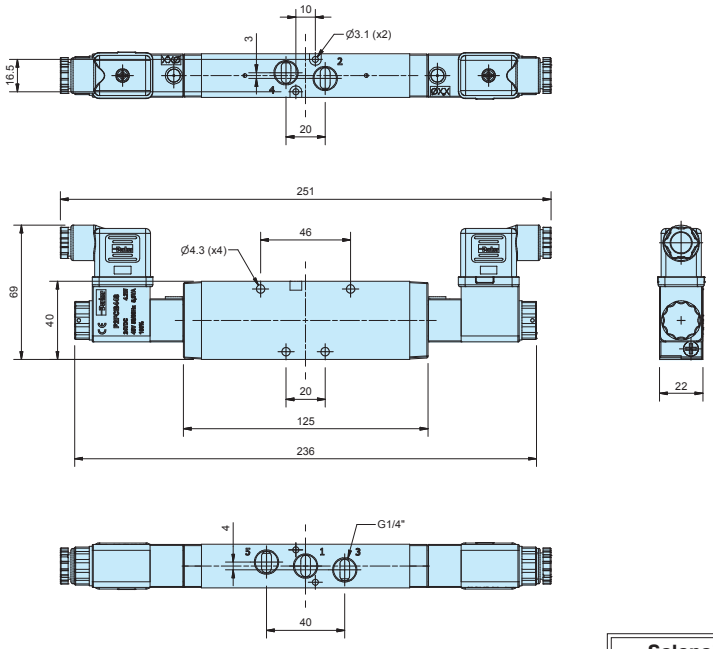
### P2LBZ 5/2
**Solenoid / Solenoid**




### P2LBZ 5/2
**Solenoid / Spring**




### P2LBZ 5/3
**Solenoid / Solenoid**




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



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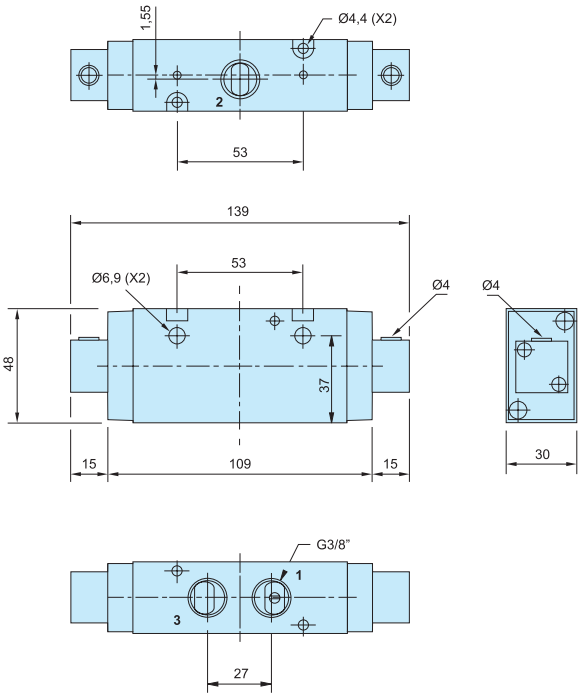
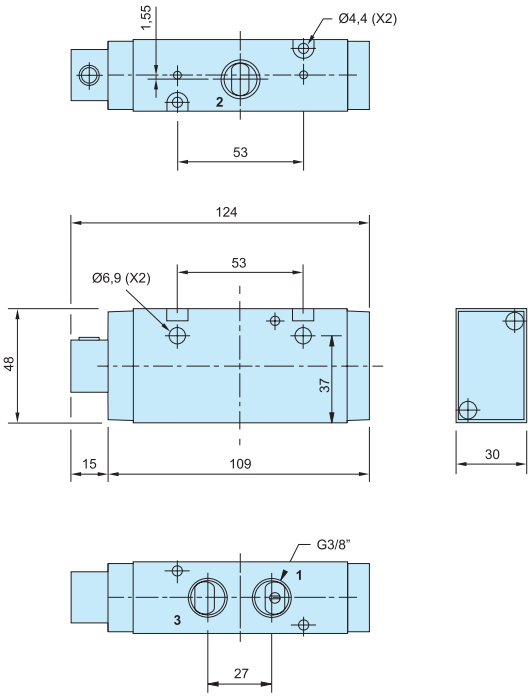
## Dimensions

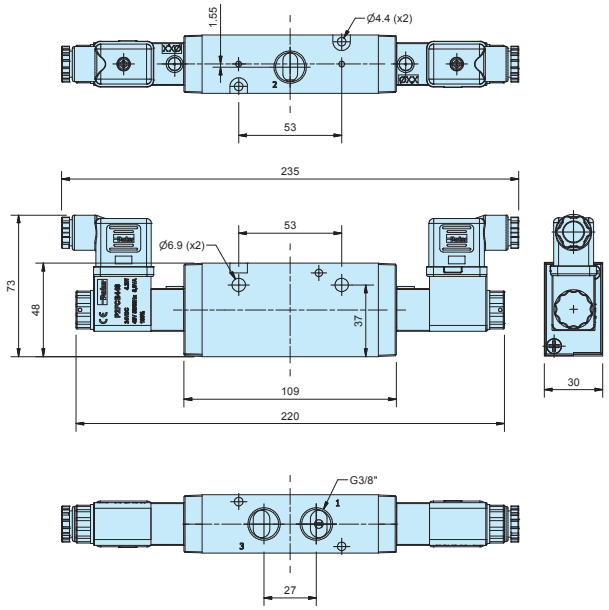
### P2LCZ 3/2
**Air / Air**



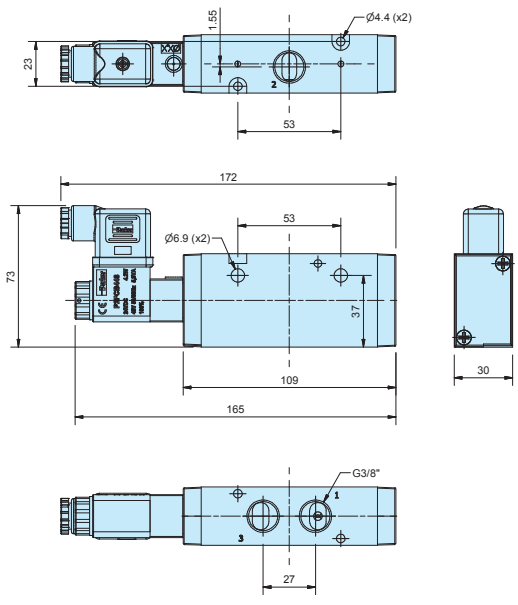

### P2LCZ 3/2
**Air / Spring**




### P2LCZ 3/2
**Solenoid / Solenoid**




### P2LCZ 3/2
**Solenoid / Spring**



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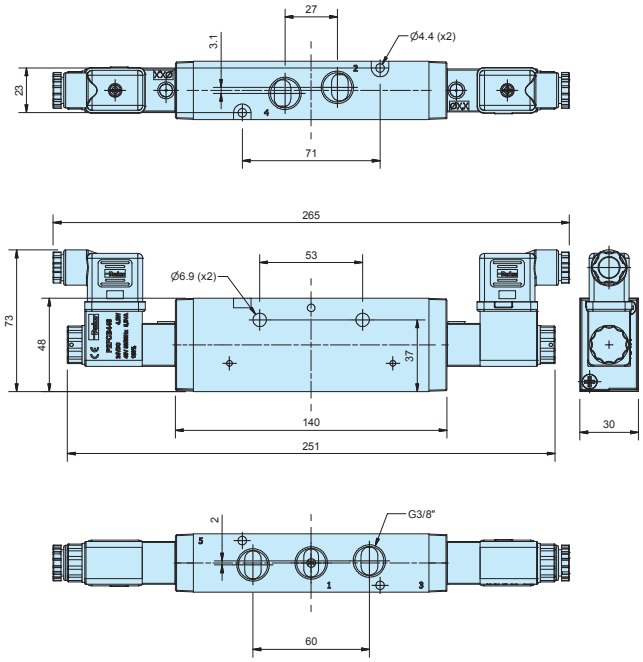
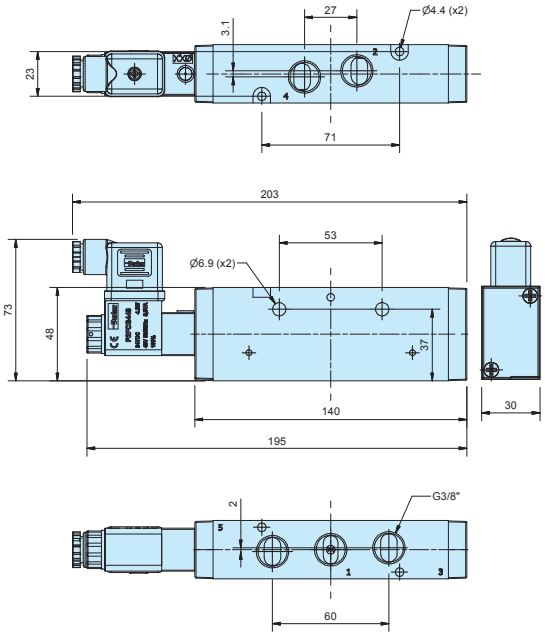
## Dimensions

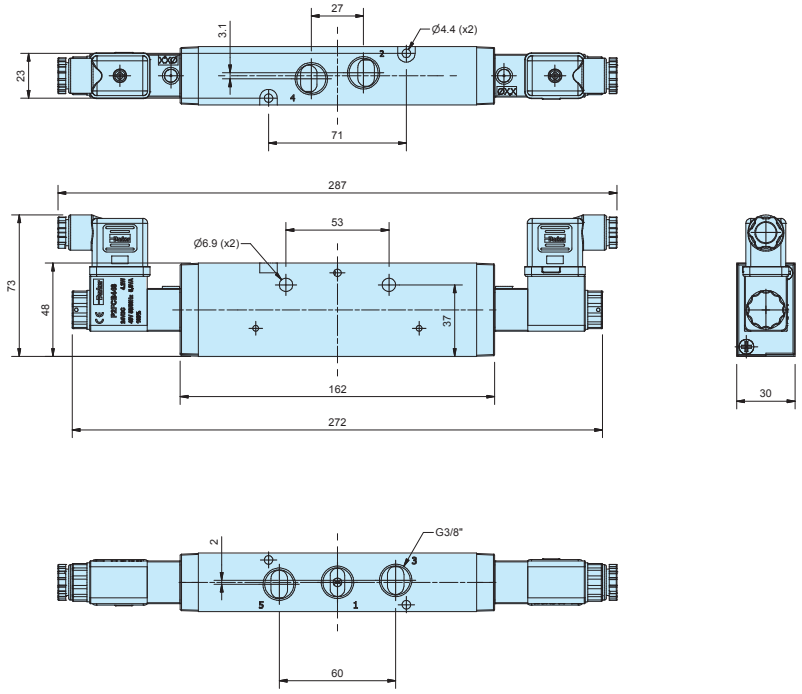
### P2LCZ 5/2
**Solenoid / Solenoid**




### P2LCZ 5/2
**Solenoid / Spring**




### P2LCZ 5/3
**Solenoid / Solenoid**



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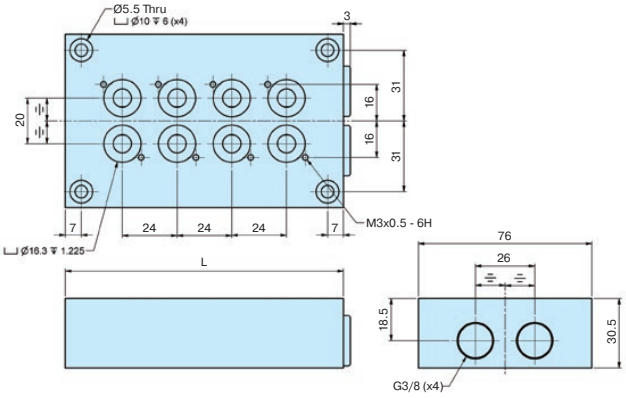
| Accessories | Type P2LA / P2LB 3/2 valves | Weight kg | Order code |
|---|---|---|---|
|  | **Manifold bar, P2LB**<br>incl. fasteners and O-ring. G3/8 | | |
| | For 2 valves | 0.38 | **91213202SXZ** |
| | For 4 valves | 0.64 | **91213204SXZ** |
| | For 6 valves | 0.89 | **91213206SXZ** |
| | For 8 valves | 1.15 | **91213208SXZ** |
| | For 10 valves | 1.40 | **91213210SXZ** |
|  | **Blanking plate**<br>for Manifold bar | 0.10 | **912132BPSXZ** |

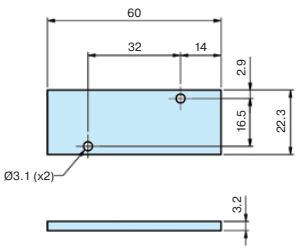
## Dimensions

### Manifold bar




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

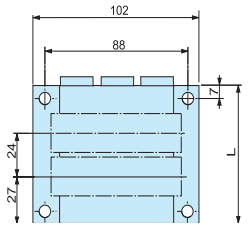
**Blanking plate for manifold bar, P2LB**



| Accessories | Type P2LA 5/2 valves | Weight kg | Order code |
|---|---|---|---|
|  | **Manifold bar, P2LA**<br>including seals, mounting screws. G3/8 | | |
| | For 4 valves | 0.48 | **9121658075** |
| | For 6 valves | 0.63 | **9121658076** |
| | For 8 valves | 0.80 | **9121658077** |
| | For 10 valves | 0.98 | **9121658078** |
| | For 12 valves | 1.10 | **9121658079** |
| | For 14 valves | 1.23 | **9121658099** |
|  | **Blanking plate, P2LA**<br>for Manifold bar | 0.05 | **9121658063** |
|  | **Pressure bar, P2LA**<br>for common air supply incl. O-rings and mounting screws. G1/4 | | |
| | For 2 valves | 0.13 | **9121658070** |
| | For 4 valves | 0.20 | **9121658071** |
| | For 6 valves | 0.26 | **9121658072** |
| | For 8 valves | 0.33 | **9121658073** |
|  | **Blanking plate, P2LA**<br>for Pressure bar | 0.05 | **9121658074** |
|  | **Assembly screws, P2LA**<br>in stainless steel for valve | 0.02 | **9121658043** |
|  | **Assembly screws, P2LA**<br>in stainless steel for blanking plate | 0.01 | **9121658044** |
|  | **O-ring kit, P2LA**<br>O-rings between valve and manifold bar/Pressure bar | 0.01 | **9121658046** |

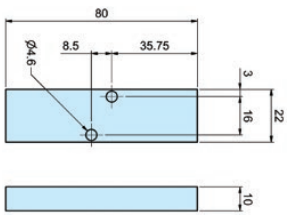
## Dimensions

### Manifold bar, P2LA

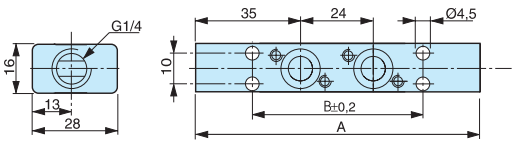



| No. of valves | L mm |
|---|---|
| 4 | 126 |
| 6 | 174 |
| 8 | 222 |
| 10 | 270 |
| 12 | 318 |
| 14 | 366 |

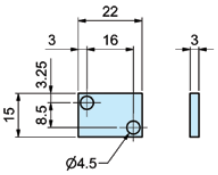
### Blanking plate for manifold bar, P2LA




### Pressure bar, P2LA




### Blanking plate for pressure bar, P2LA




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



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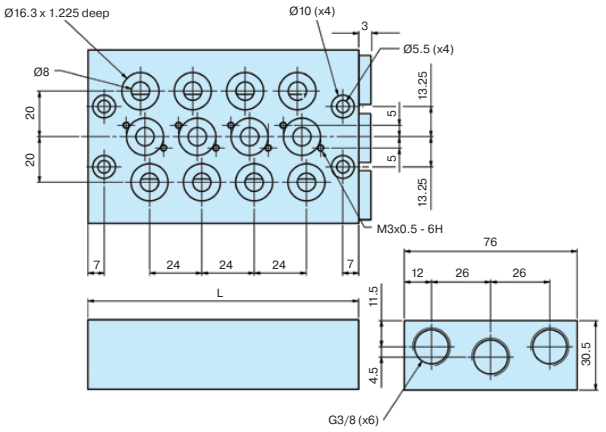
| Accessories | Type P2LB 5/2 valves | Weight kg | Order code |
|---|---|---|---|
|  | **Manifold bar, P2LB**<br>incl. fasteners and O-ring. G3/8 | | |
| | For 2 valves | 0.69 | **9121594805X** |
| | For 4 valves | 1.13 | **9121594806X** |
| | For 6 valves | 1.56 | **9121594807X** |
| | For 8 valves | 2.00 | **9121594808X** |
| | For 10 valves | 2.45 | **9121594812X** |
|  | **Blanking plate, P2LB**<br>for Manifold bar | 0.10 | **9121594809X** |
|  | **Pressure bar, P2LB**<br>for common air supply incl. O-rings and mounting screws. G3/8 | | |
| | For 2 valves | 0.38 | **9127113301X** |
| | For 4 valves | 0.53 | **9127113302X** |
| | For 6 valves | 0.68 | **9127113303X** |
| | For 8 valves | 0.83 | **9127113304X** |
| | For 10 valves | 0.99 | **9127113305X** |
|  | **Blanking plate P2LB**<br>for Pressure bar. G1/4 | 0.02 | **9127113306X** |

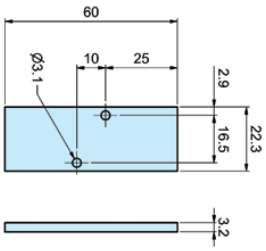
## Dimensions

### Manifold bar, P2LB

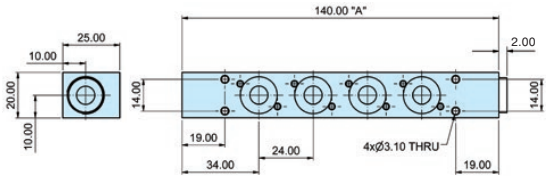



| No. of valves | L mm |
|---|---|
| 2 | 74 |
| 4 | 122 |
| 6 | 170 |
| 8 | 218 |
| 10 | 266 |

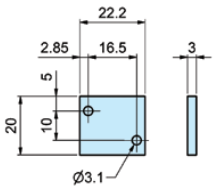
### Blanking plate for manifold bar, P2LB




### Pressure bar, P2LB




### Blanking plate for pressure bar, P2LB




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



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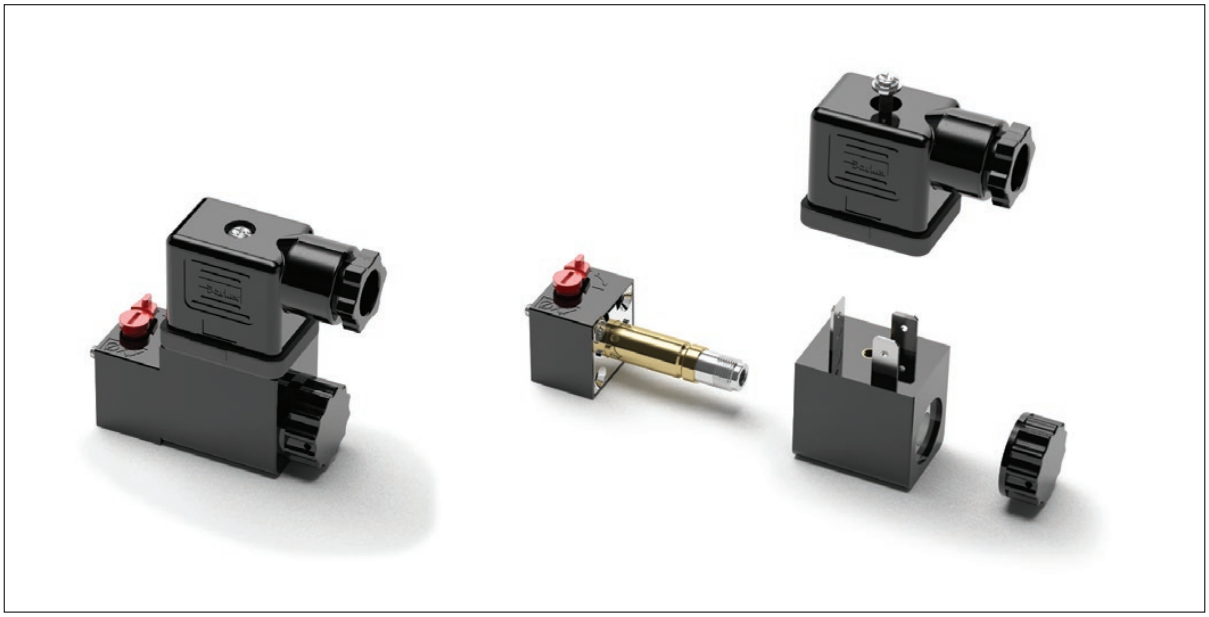


## 22mm Solenoid pilot options

The solenoid pilot operators are designed for piloting pneumatic control valves with compressed air or other inert gases.

The operator is available for normal operating pressures up to 10 bar having an outlet orifice 1.2 mm and exhaust orifice 1.45 mm.

### Corrosion resistant design

The pilot operator body is manufactured in thermoplastic PA 6 material and the core tube brass is stainless steel. The plunger/core is also made from stainless steel and the valve seats from FKM.

### Solenoid Pilot Exhaust

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

### Coils

Coils are wound with enameled copper wire, having temperature index 180$^0$C with class F insulation (155$^0$C) and are encapsulated in Thermoplastic resin.
When fitted with suitable connector and correct gasket they give protection to IP65.

### Manual Override options

The standard manual override is the bi-stable twist lock, extended plastic override. Non locking flush manual override available as option.

## 22mm solenoid operator part numbers and spares

**Solenoid coils for 22mm solenoid operators**

| Voltage | Weight (Kg) | Order code Form B |
|---|---|---|
| 12V 60Hz | 0.093 | **P2FCB340** |
| 24V 50/60Hz | 0.093 | **P2FCB342** |
| 12V DC | 0.093 | **P2FCB345** |
| 24V DC | 0.093 | **P2FCB349** |
| 48V DC | 0.093 | **P2FCB351** |
| 110V/50Hz, 120V/60Hz | 0.093 | **P2FCB353** |
| 230V/50Hz, 230V/60Hz | 0.093 | **P2FCB357** |

## Spare Solenoid Nuts

**Valves requiring captured exhaust should be fitted with plastic knurled nut**

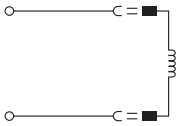
| Order code |
|---|
| **P2FNP** |

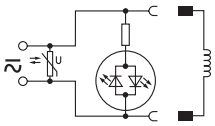
**Valves with vented exhaust are fitted with diffuser plastic nut**

| Order Code |
|---|
| **P2FND** |

## Solenoid Connectors / Cable Plugs EN175301-803

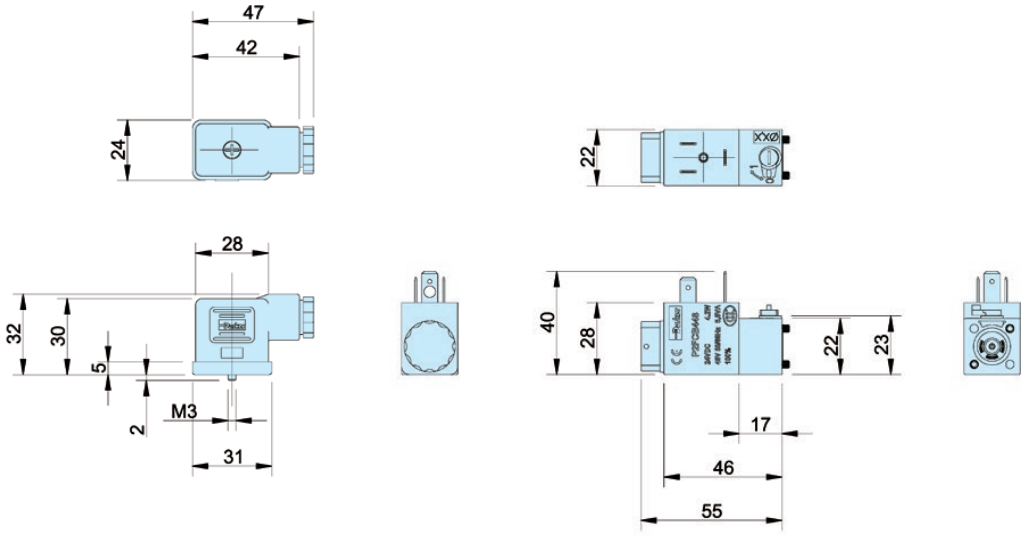
| | Description | Order code 22mm Industrial Form B |
|---|---|---|
| With standard screw  | Standard IP65 without flying lead | **3EV10V10** |
| | With LED and protection 24V AC/DC | **3EV10V20-24** |
| | With LED and protection 110V AC | **3EV10V20-110** |
| | With LED and protection 230V AC | **3EV10V20-230** |
| With cable  | 24V AC/DC, 5m cable LED and protection IP65 | **3EV10V20-24L5** |
| | 110V AC/DC, 5m cable LED and protection IP65 | **3EV10V20-110L5** |
| | 230V AC, 5m cable LED and protection IP65 | **3EV10V20-230L5** |





| | |
|---|---|
| **3EV10V10** | **3EV10V20-24 3EV10V20-24L5** |
| | **3EV10V20-110 3EV10V20-110L5** |
| | **3EV10V20-230 3EV10V20-230L5** |

## Cable Plug Dimensions (mm)



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**JP – Japan,** Tokyo
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**KR – South Korea,** Seoul
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