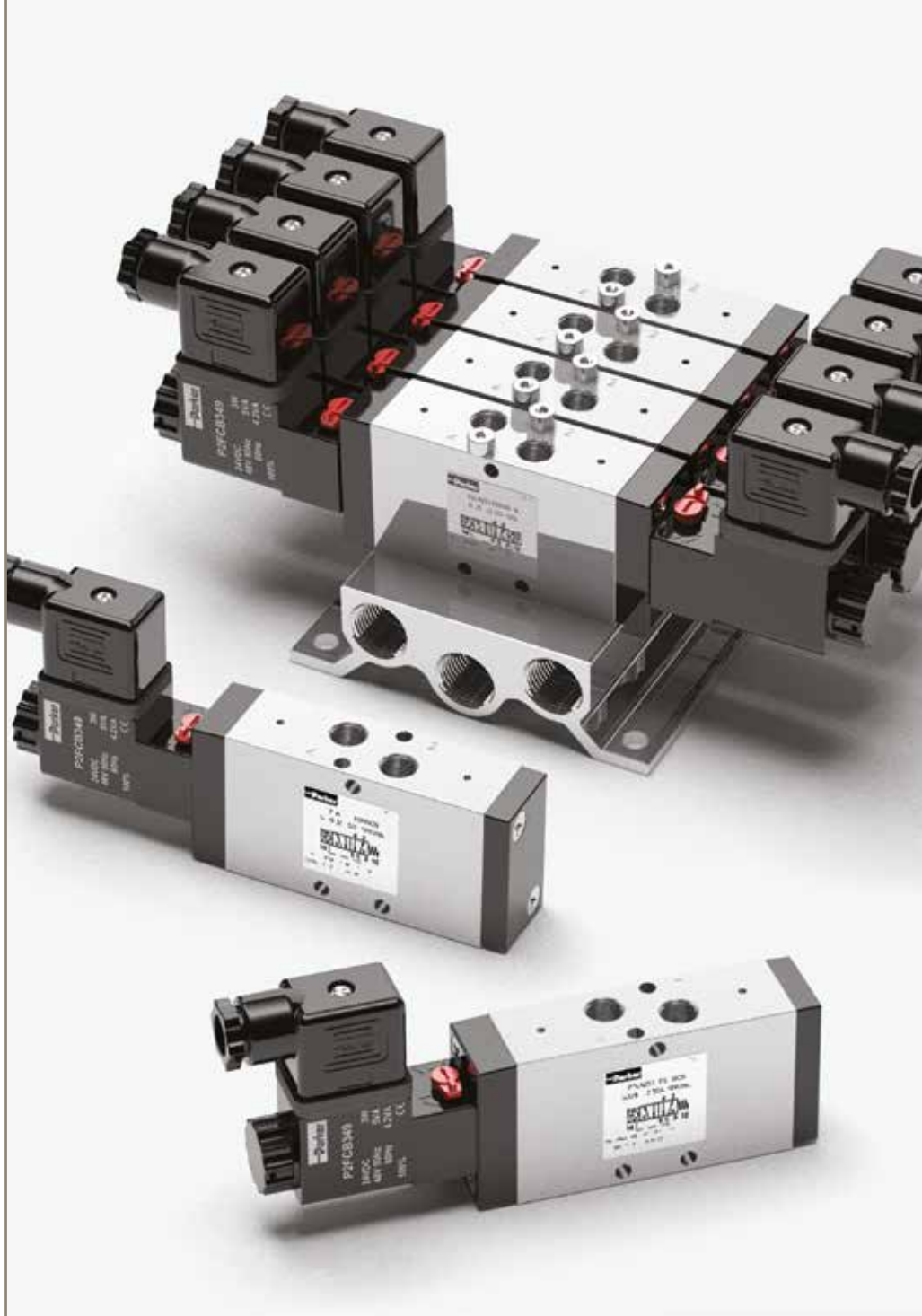




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Pneumatic Valves Viking Lite Series

G1/8 - G3/8 body ported

Catalogue PDE2658TCUK May 2015



ENGINEERING YOUR SUCCESS.

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Important !

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



NB !

All technical data in this catalogue is typical only.

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



WARNING

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

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

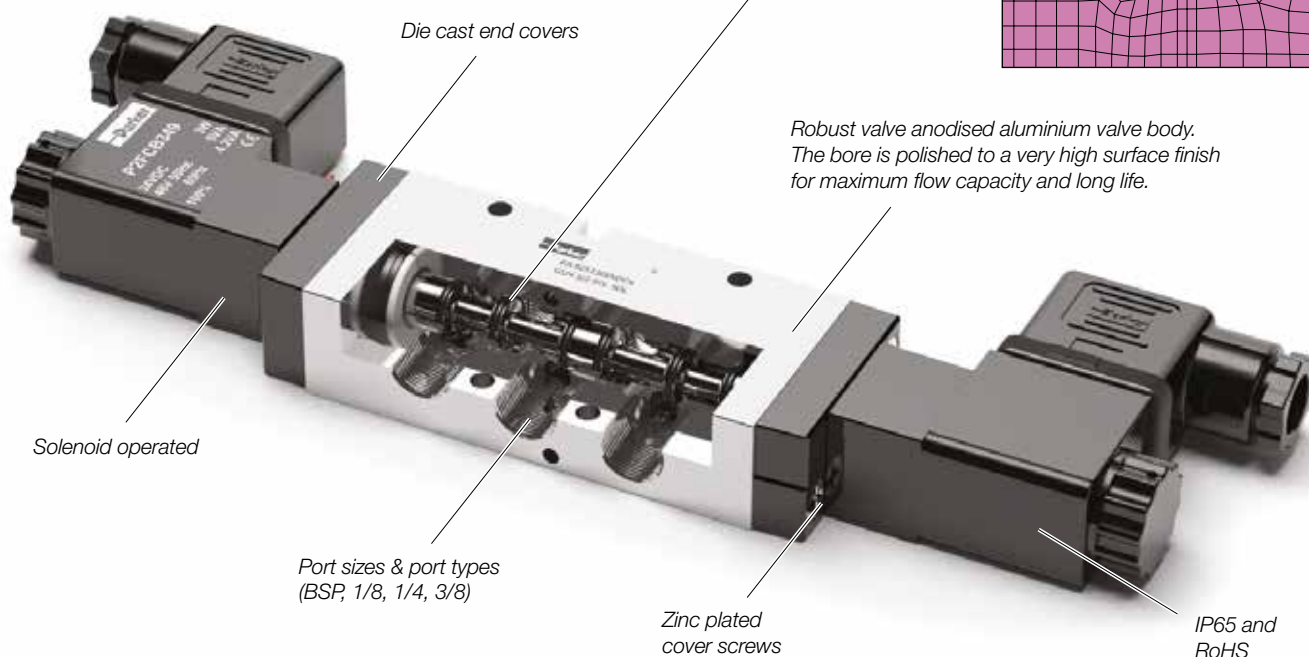
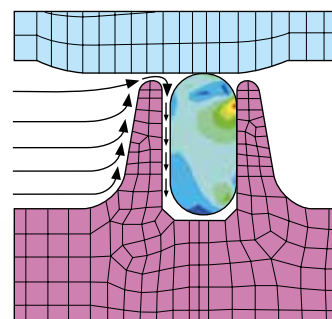
P2LAZ, G1/8 - Cv = 0.6

P2LBZ, G1/4 - Cv = 1.5

P2LCZ, G3/8 - Cv = 2.5



Wear Compensating System



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

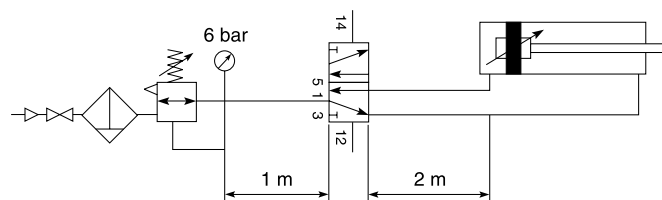
Quality class	Pollution particle size (µm)	max. concentration (mg/m ³)	Water max. press. dew point (°C)	Oil max. concentration (mg/m ³)
1	0,1	0,1	-70	0,01
2	1	1	-40	0,1
3	5	5	-20	1,0
4	15	8	+3	5,0
5	40	10	+7	25
6	-	-	+10	-

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

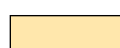
In the chart below you can find the suitable valves, tubes etc. for each cylinder size. If you have a tube length over 2m, choose one tube size larger than in the chart.

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

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

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

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

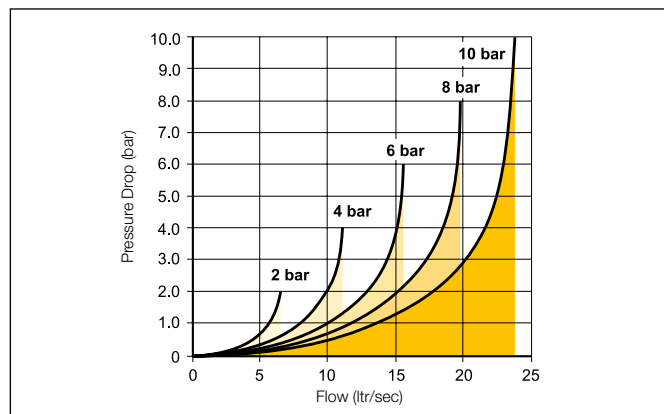
Flow characteristics

Flow capacities in accordance with ISO6358

All pressures = effective pressure

The curves in the diagram below are typical only

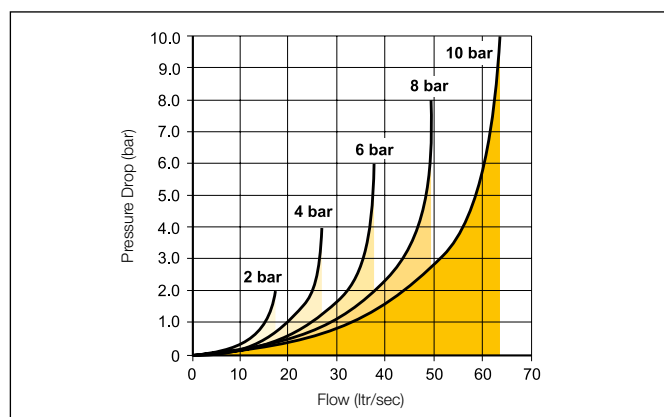
Technical Data P2LAZ



Port size
Maximum Operating pressure
Working temperature.
Flow (acc. to ISO 6358)

G1/8
10 bar
-10°C to + 50°C
 $c = 2.2 \text{ NI/s} \times \text{bar}$
 $b = 0.3$
 $Q_n = 10.1 \text{ l/s}$
 $Q_{\text{max}} = 15.6 \text{ l/s}$
 $C_v = 0.6$

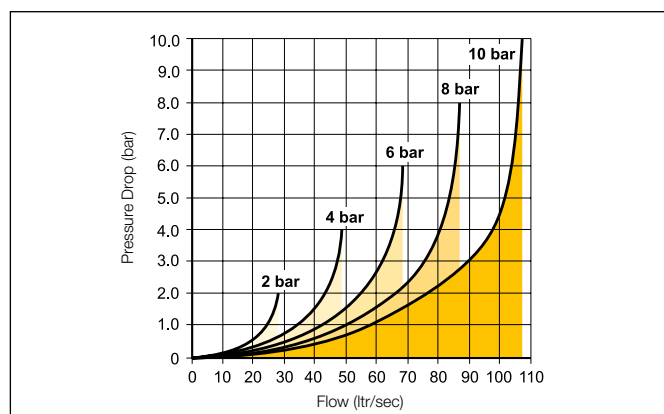
Technical Data P2LBZ



Port size
Maximum Operating pressure
Working temperature.
Flow (acc. to ISO 6358)

G1/4
10 bar
-10°C to + 50°C
 $c = 5.4 \text{ NI/s} \times \text{bar}$
 $b = 0.3$
 $Q_n = 24.6 \text{ l/s}$
 $Q_{\text{max}} = 37.8 \text{ l/s}$
 $C_v = 1.5$

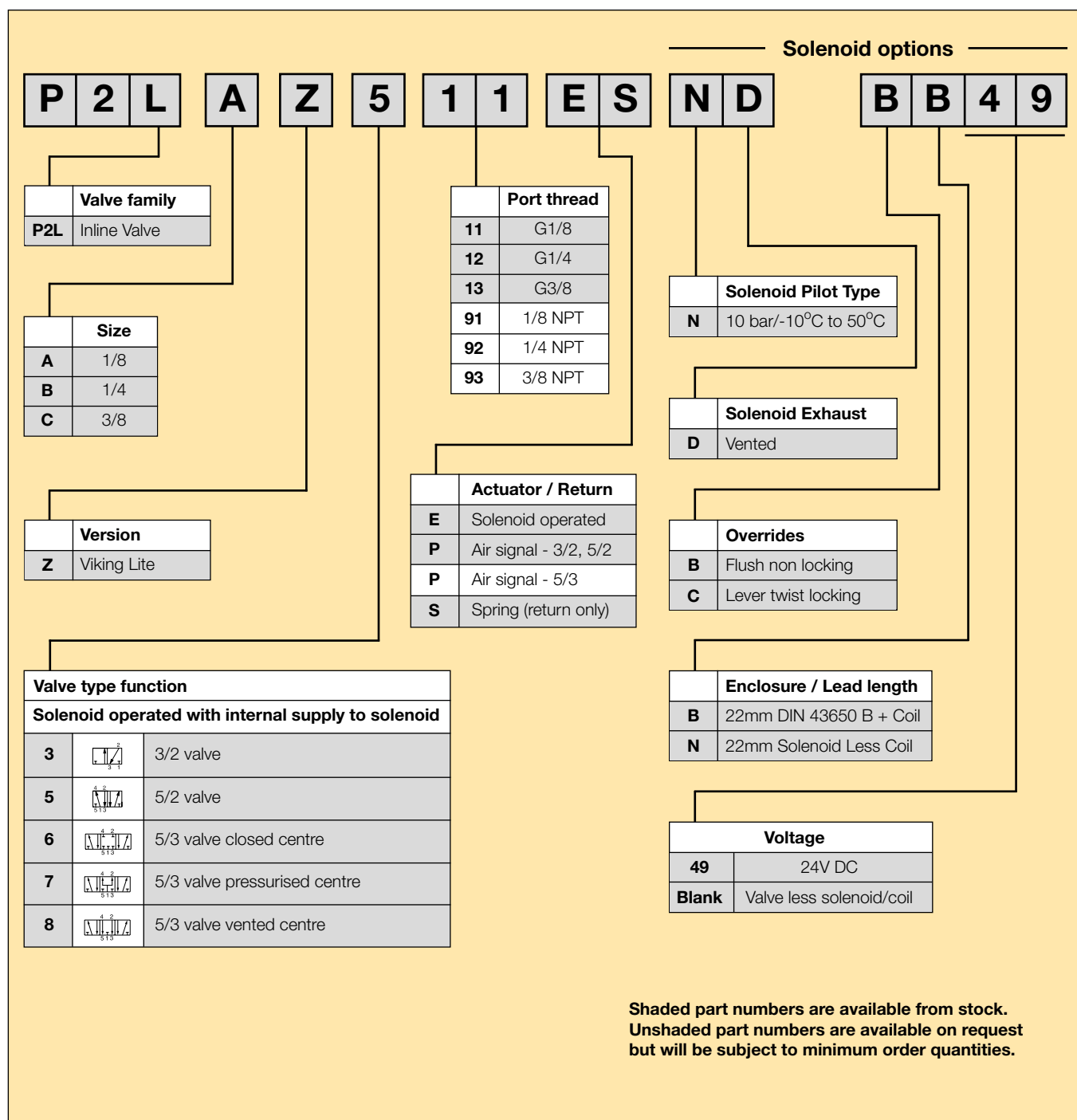
Technical Data P2LCZ



Port size
Maximum Operating pressure
Working temperature.
Flow (acc. to ISO 6358)

G3/8
10 bar
-10°C to + 50°C
 $c = 9.7 \text{ NI/s} \times \text{bar}$
 $b = 0.3$
 $Q_n = 41.5 \text{ l/s}$
 $Q_{\text{max}} = 68.3 \text{ l/s}$
 $C_v = 2.5$

Viking Lite Part Number System



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

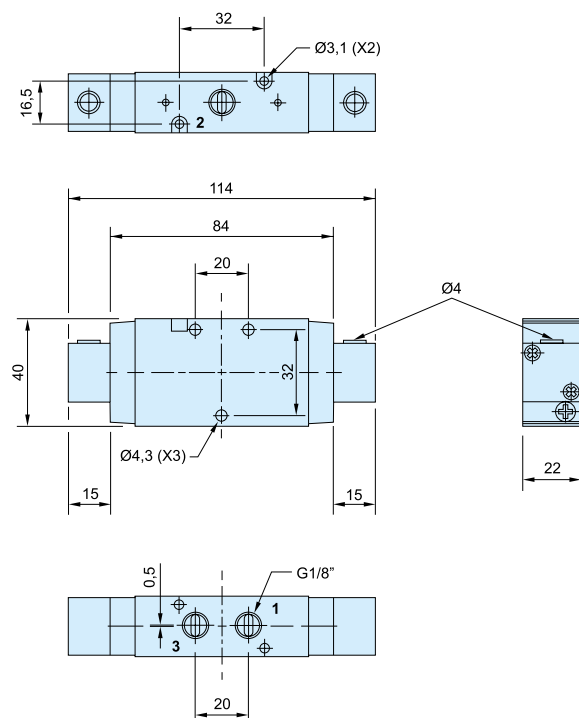
5/3 valves, internal air, standard temperature

Symbol	Size	Actuation	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	Electric/Electric	Self centring	3.0	18/40	0.26	P2LAZ611EENDCN	P2LAZ611EENDCB49
	G1/4		Closed	3.0	22/55	0.28	P2LBZ612EENDCN	P2LBZ612EENDCB49
	G3/8		Centre	3.0	30/90	0.60	P2LCZ613EENDCN	P2LCZ613EENDCB49
	G1/8	Electric/Electric	Self centring	3.0	18/40	0.26	P2LAZ711EENDCN	P2LAZ711EENDCB49
	G1/4		Presurised	3.0	22/45	0.28	P2LBZ712EENDCN	P2LBZ712EENDCB49
	G3/8		Centre	3.0	30/90	0.60	P2LCZ713EENDCN	P2LCZ713EENDCB49
	G1/8	Electric/Electric	Self centring	3.0	18/40	0.26	P2LAZ811EENDCN	P2LAZ811EENDCB49
	G1/4		Vented	3.0	22/45	0.28	P2LBZ812EENDCN	P2LBZ812EENDCB49
	G3/8		Centre	3.0	30/90	0.60	P2LCZ813EENDCN	P2LCZ813EENDCB49

Dimensions

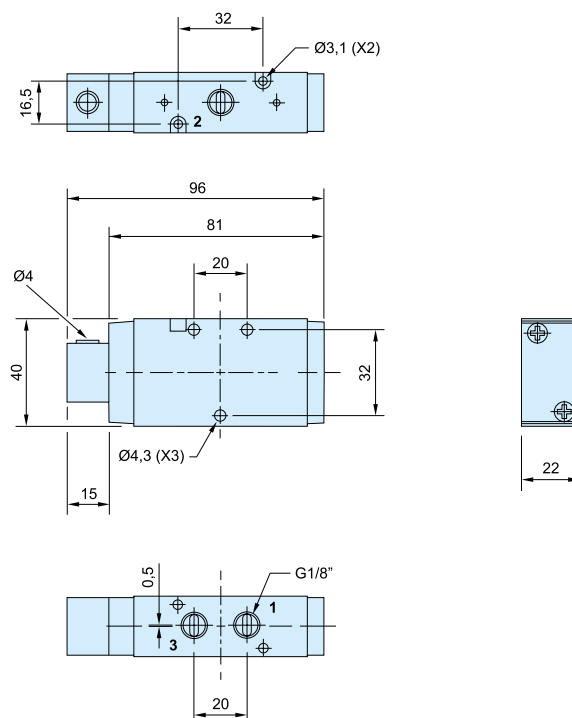
P2LAZ 3/2

Air / Air



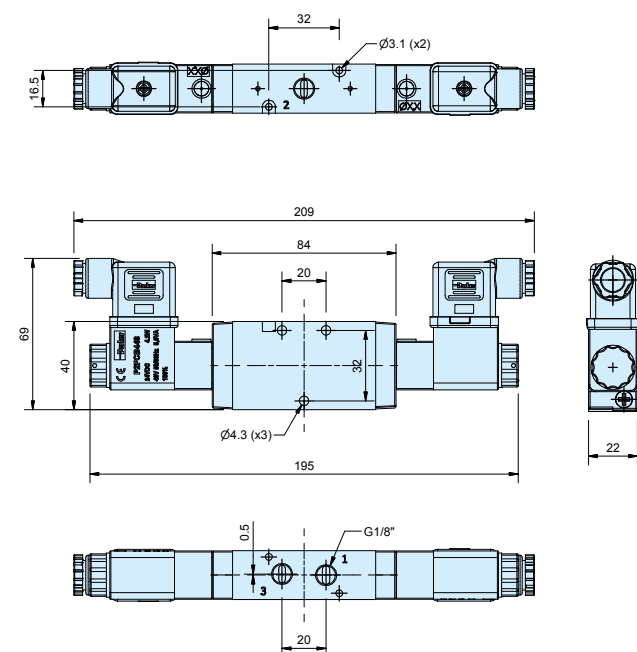
P2LAZ 3/2

Air / Spring



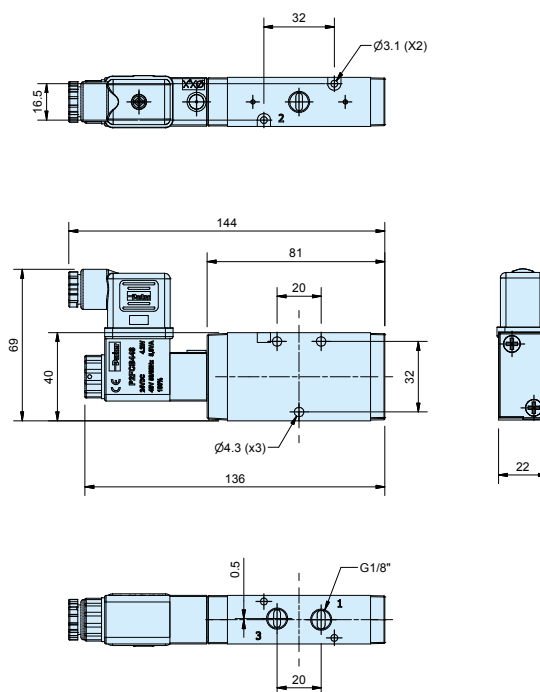
P2LAZ 3/2

Solenoid / Solenoid



P2LAZ 3/2

Solenoid / Spring



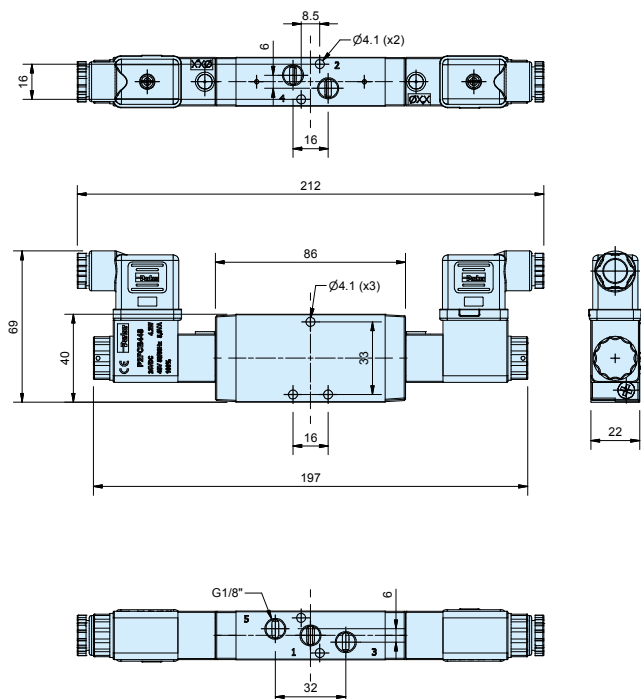
Solenoid valves

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

Dimensions

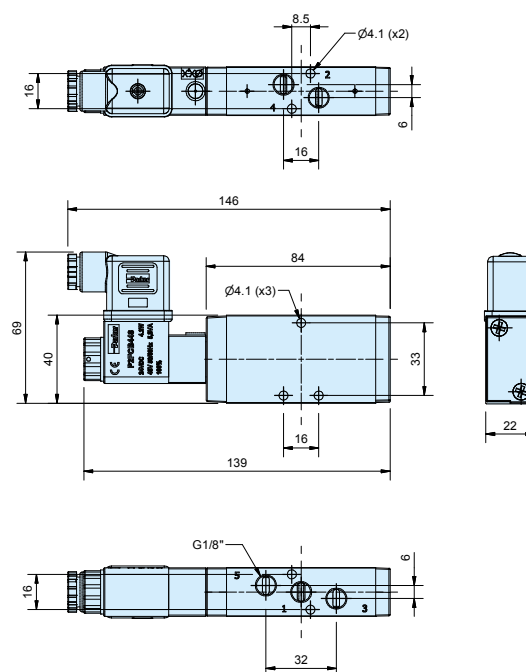
P2LAZ 5/2

Solenoid / Solenoid



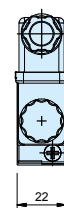
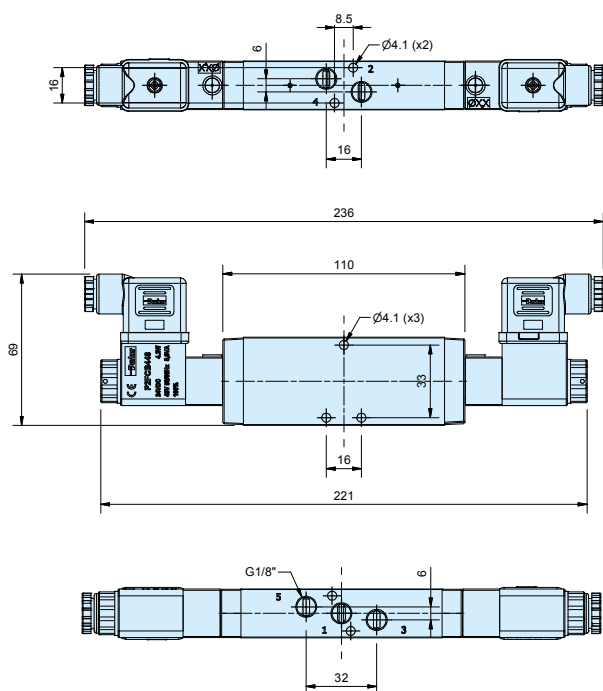
P2LAZ 5/2

Solenoid / Spring



P2LAZ 5/3

Solenoid / Solenoid



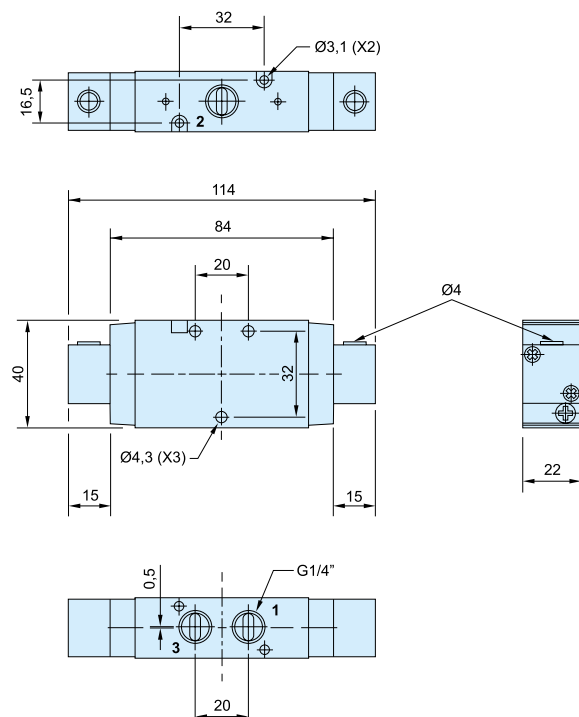
Solenoid valves

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

Dimensions

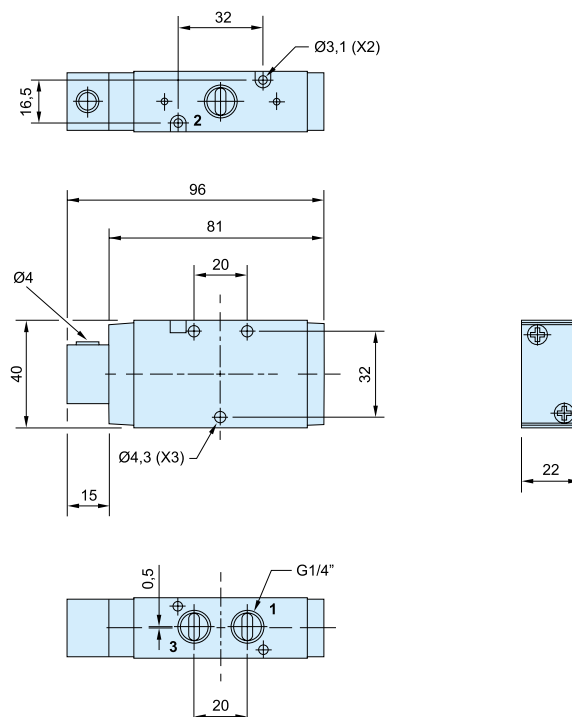
P2LBZ 3/2

Air / Air



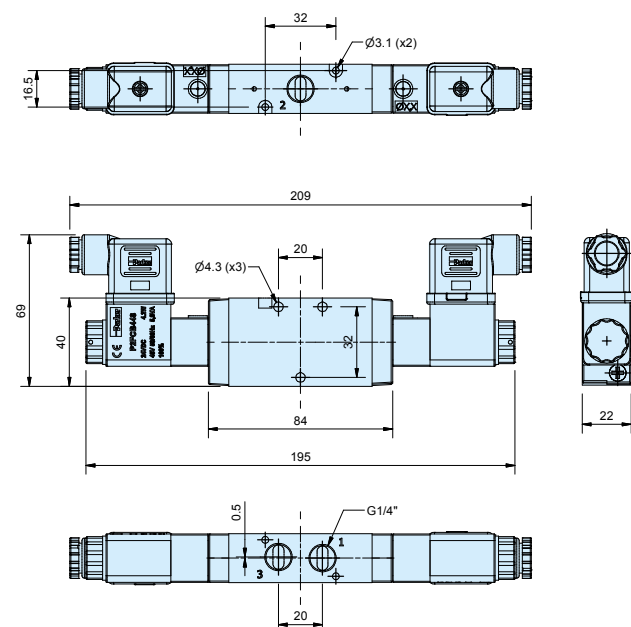
P2LBZ 3/2

Air / Spring



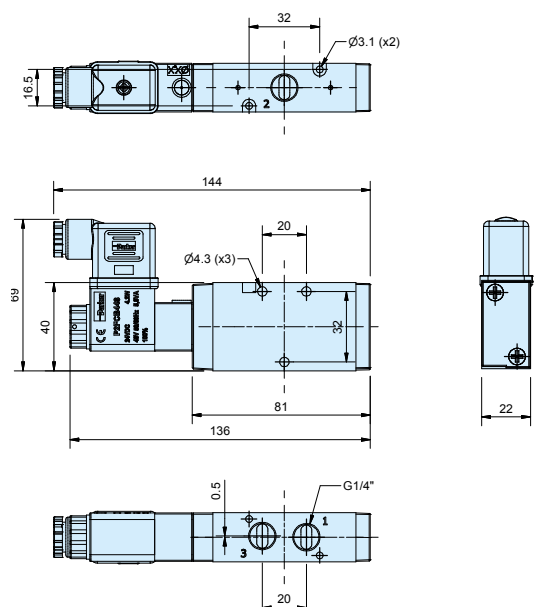
P2LBZ 3/2

Solenoid / Solenoid



P2LBZ 3/2

Solenoid / Spring



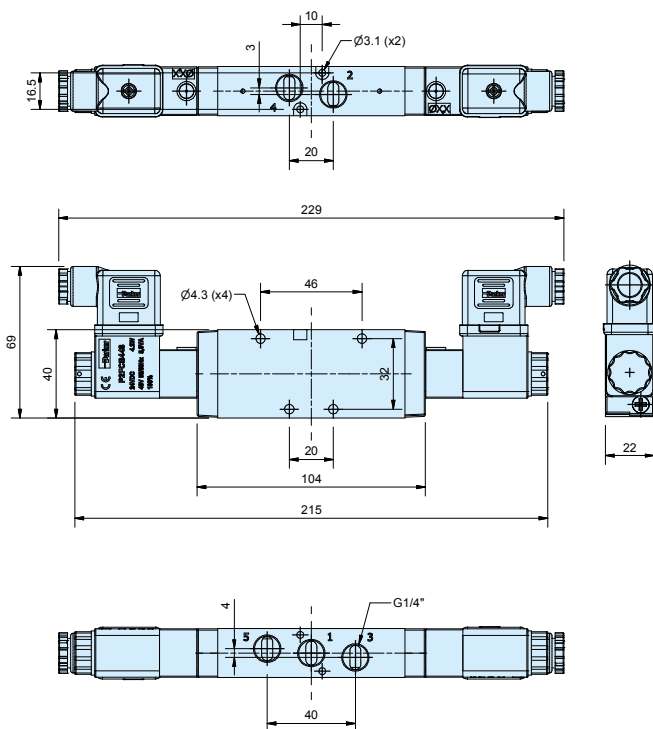
Solenoid valves

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

Dimensions

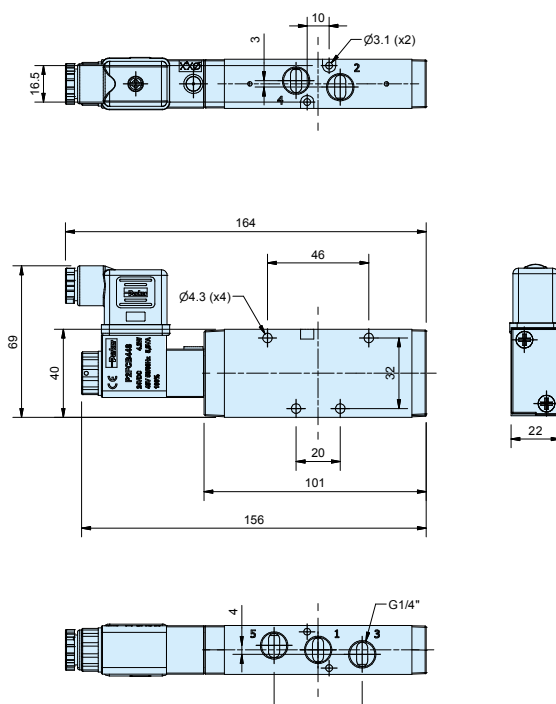
P2LBZ 5/2

Solenoid / Solenoid



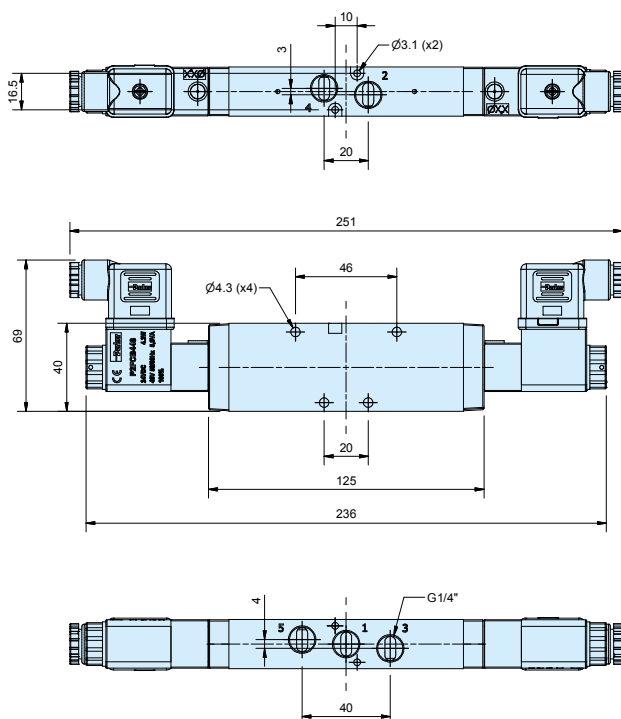
P2LBZ 5/2

Solenoid / Spring



P2LBZ 5/3

Solenoid / Solenoid

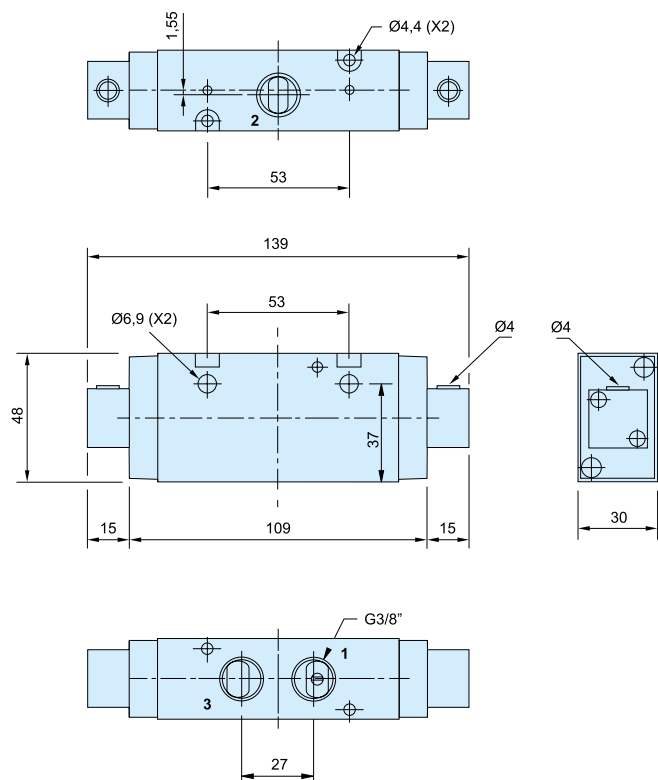
**Solenoid valves**

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

Dimensions

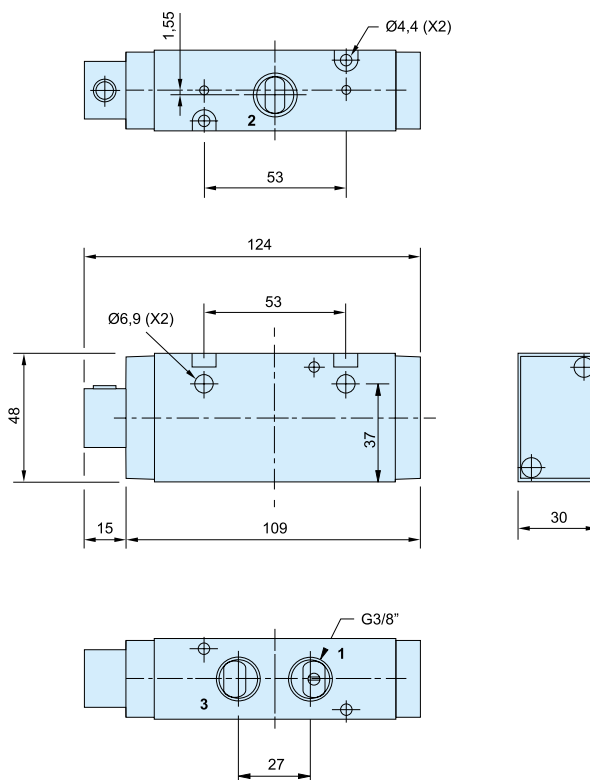
P2LCZ 3/2

Air / Air



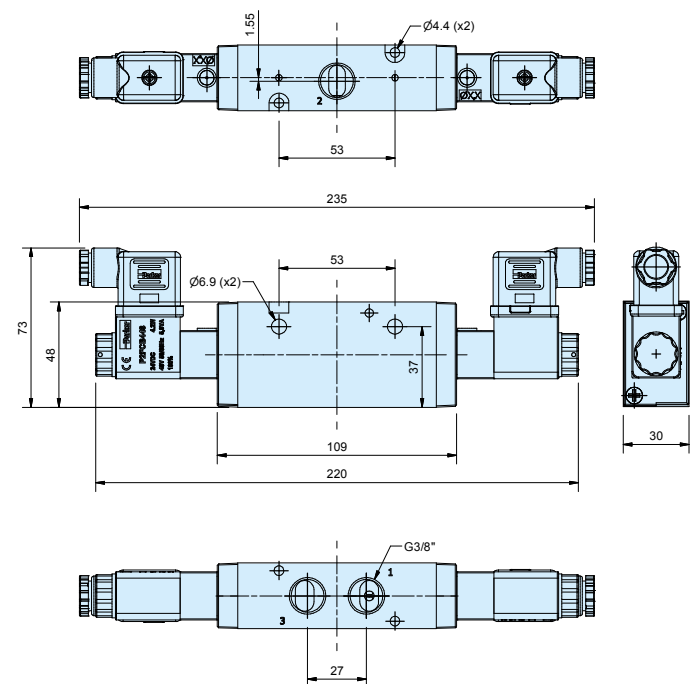
P2LCZ 3/2

Air / Spring



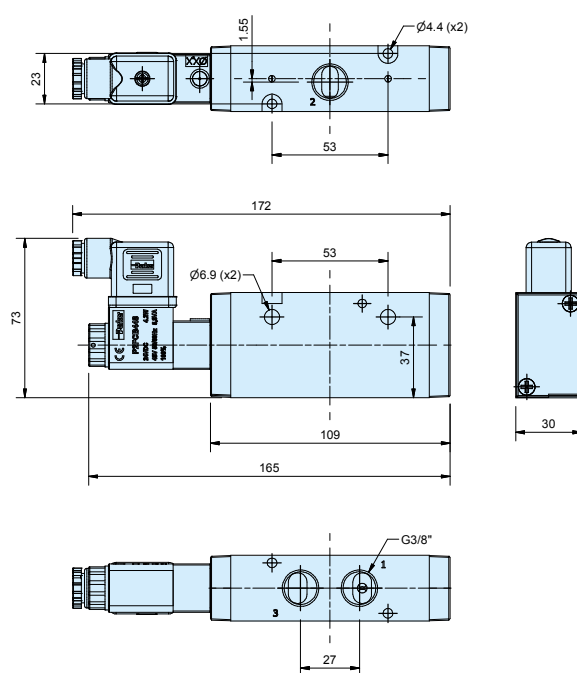
P2LCZ 3/2

Solenoid / Solenoid



P2LCZ 3/2

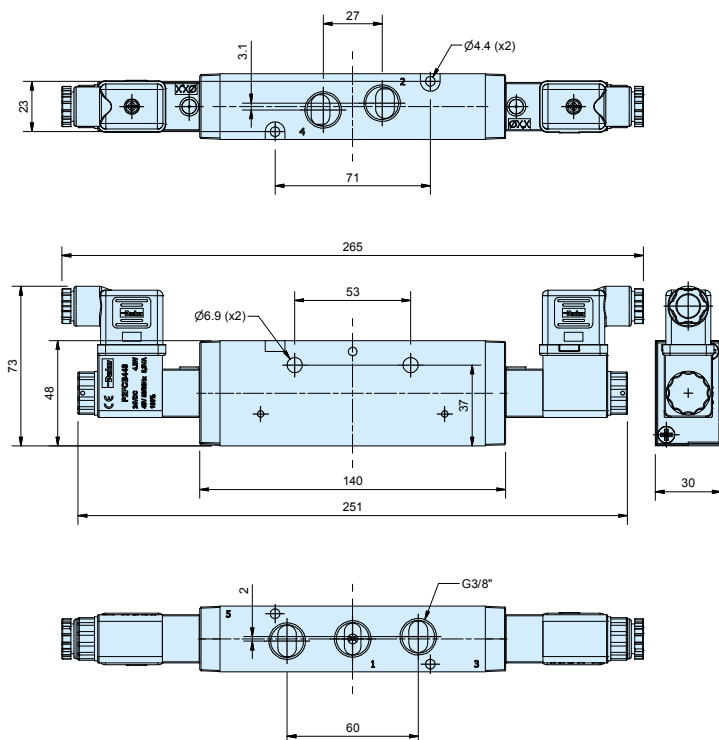
Solenoid / Spring



Dimensions

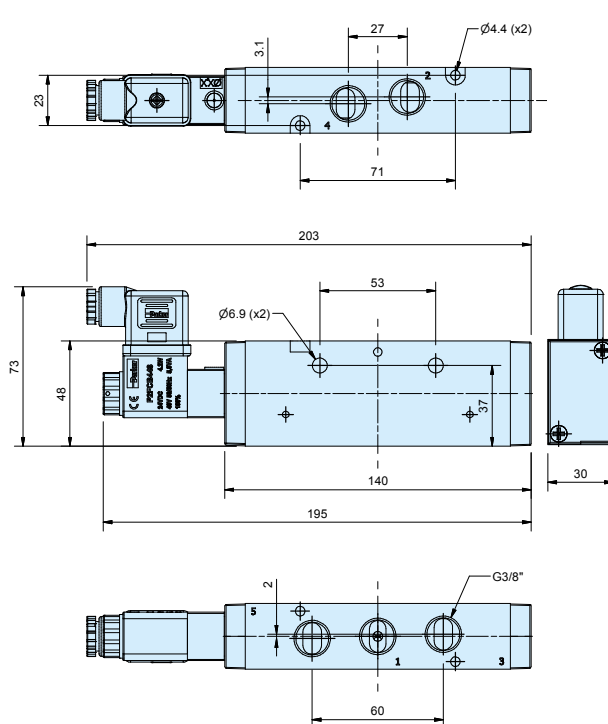
P2LCZ 5/2

Solenoid / Solenoid



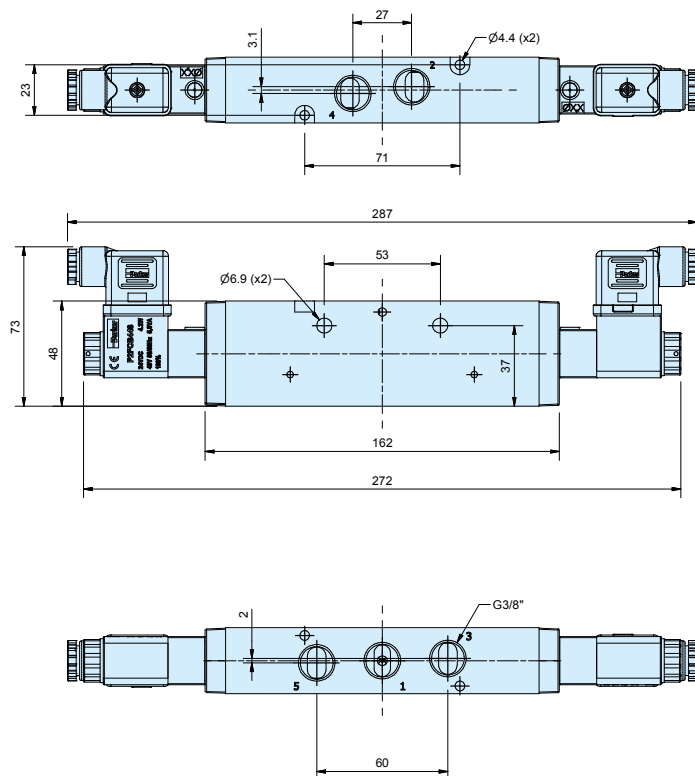
P2LCZ 5/2

Solenoid / Spring



P2LCZ 5/3

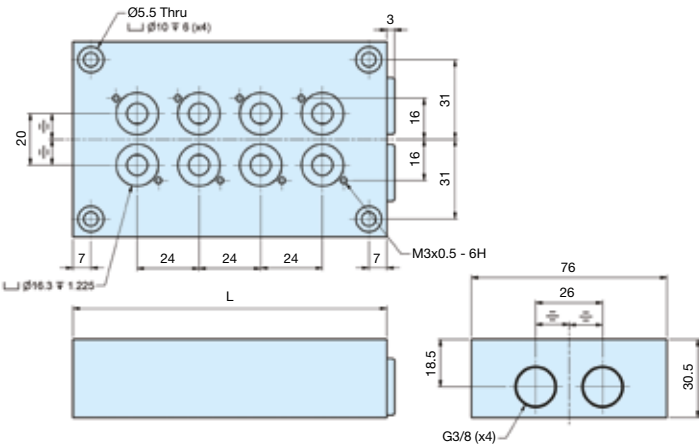
Solenoid / Solenoid



Accessories	Type P2LA / P2LB 3/2 valves	Weight kg	Order code
	Manifold bar, P2LB 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 for Manifold bar	0.10	912132BPSXZ

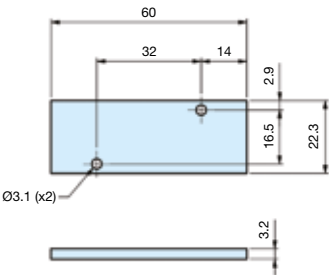
Dimensions

Manifold bar



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

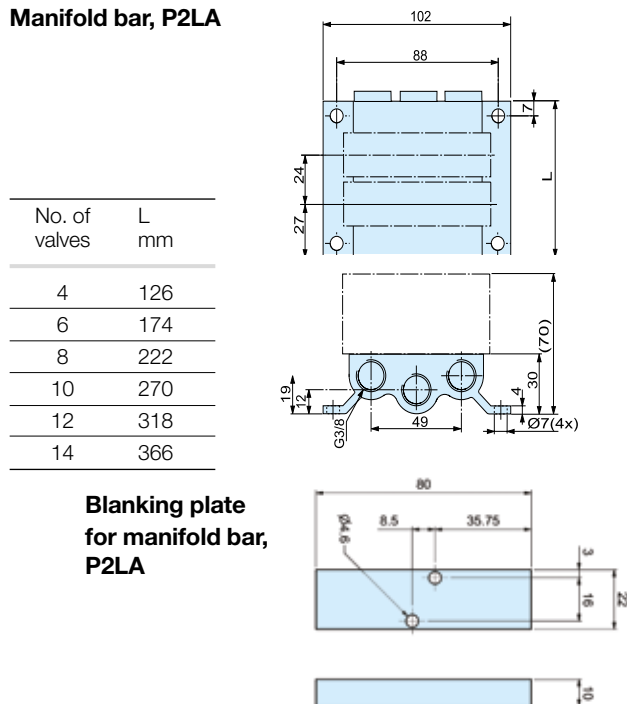
**Blanking plate
for manifold bar,
P2LB**



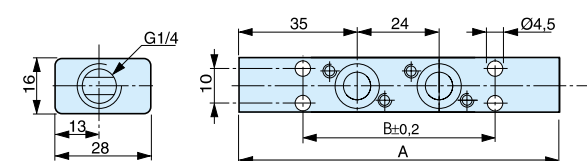
Accessories	Type P2LA 5/2 valves	Weight kg	Order code
	Manifold bar, P2LA including seals, mounting screws. G3/8		
	For 4 valves	0.48	9121658075
	For 6 valves	0.63	9121658076
	For 8 valves	0.80	9121658077
	For 10 valves	0.98	9121658078
	For 12 valves	1.10	9121658079
	For 14 valves	1.23	9121658099
	Blanking plate, P2LA 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	9121658070
	For 4 valves	0.20	9121658071
	For 6 valves	0.26	9121658072
	For 8 valves	0.33	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

Dimensions

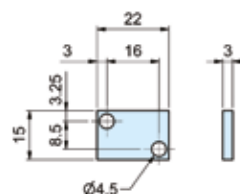
Manifold bar, P2LA



Pressure bar, P2LA



Blanking plate for pressure bar, P2LA

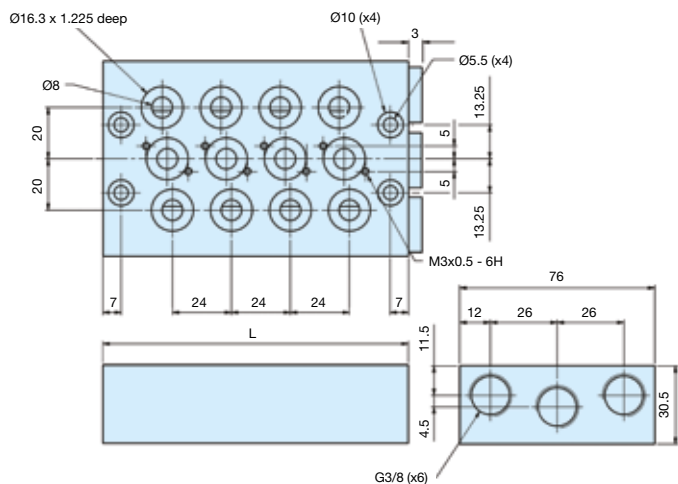


No. of valves	A mm	B mm
2	94	56
4	142	104
6	190	152
8	238	200

Accessories	Type P2LB 5/2 valves	Weight kg	Order code
	Manifold bar, P2LB 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 for Manifold bar	0.10	9121594809X
	Pressure bar, P2LB 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 for Pressure bar. G1/4	0.02	9127113306X

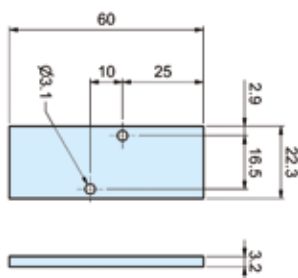
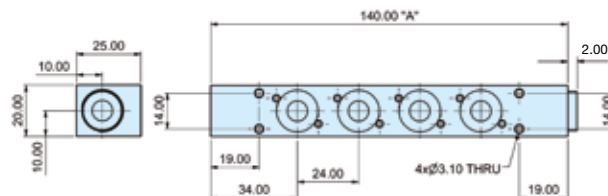
Dimensions

Manifold bar, P2LB

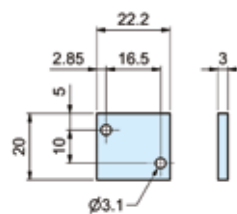


No. of valves	L mm
2	74
4	122
6	170
8	218
10	266

**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



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.

Coils

Coils are wound with enameled copper wire, having temperature index 180°C with class F insulation (155°C) and are encapsulated in Thermoplastic resin.

When fitted with suitable connector and correct gasket they give protection to IP65.

Solenoid Pilot Exhaust

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

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

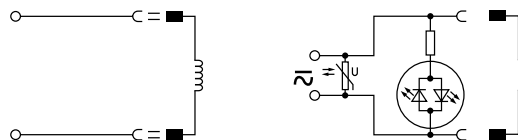
Valves with vented exhaust are fitted with diffuser plastic nut

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
	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



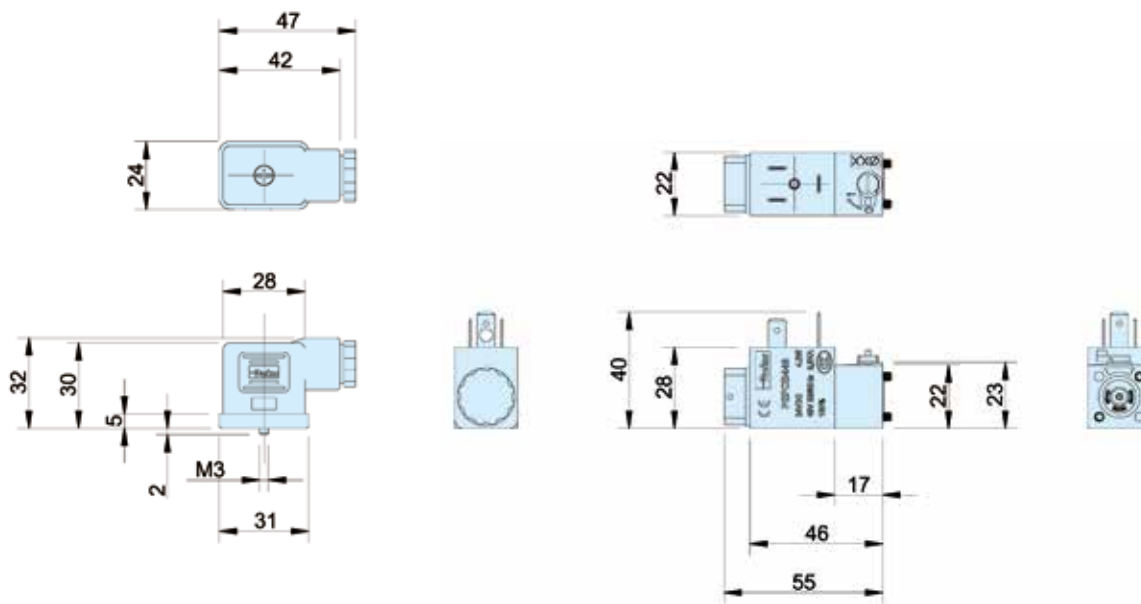
3EV10V10

3EV10V20-24 3EV10V20-24L5

3EV10V20-110 3EV10V20-110L5

3EV10V20-230 3EV10V20-230L5

Cable Plug Dimensions (mm)



Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG – Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs
Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker
Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario
Tel: +1 905 693 3000

US – USA, Cleveland
Tel: +1 216 896 3000

Asia Pacific

AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777

CN – China, Shanghai
Tel: +86 21 2899 5000

HK – Hong Kong
Tel: +852 2428 8008

IN – India, Mumbai
Tel: +91 22 6513 7081-85

JP – Japan, Tokyo
Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul
Tel: +82 2 559 0400

MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington
Tel: +64 9 574 1744

SG – Singapore
Tel: +65 6887 6300

TH – Thailand, Bangkok
Tel: +662 186 7000

TW – Taiwan, Taipei
Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos
Tel: +55 800 727 5374

CL – Chile, Santiago
Tel: +56 2 623 1216

MX – Mexico, Toluca
Tel: +52 72 2275 4200

European Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

Parker Hannifin Ltd.
Tachbrook Park Drive
Tachbrook Park,
Warwick, CV34 6TU
United Kingdom
Tel.: +44 (0) 1926 317 878
Fax: +44 (0) 1926 317 855
parker.uk@parker.com
www.parker.com

