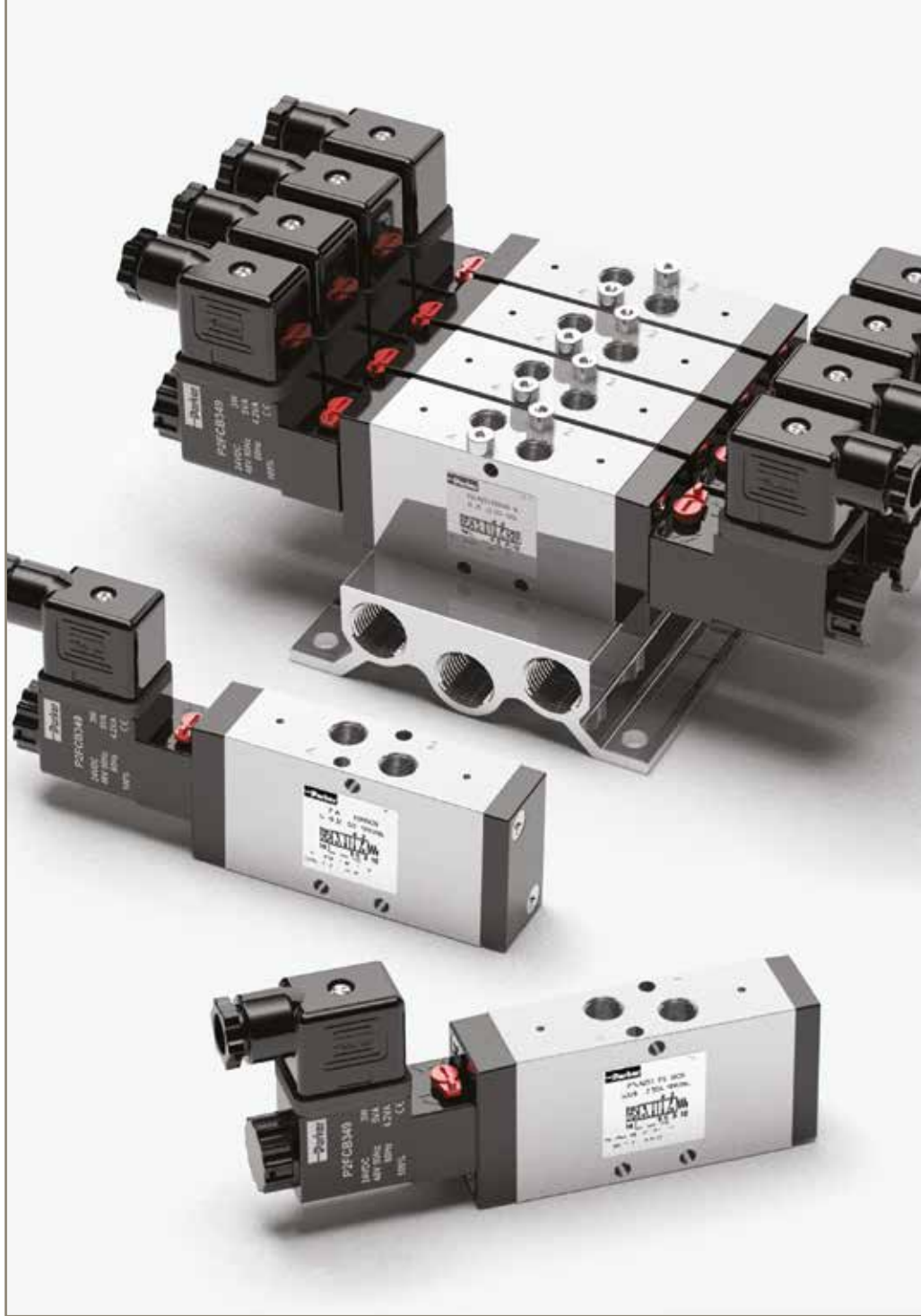




aerospace
 climate control
 electromechanical
 filtration
 fluid & gas handling
 hydraulics
pneumatics
 process control
 sealing & shielding



Pneumatic Valves Viking Lite Series


G1/8 - G3/8 body ported

Catalogue PDE2658TCUK October 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.
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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.

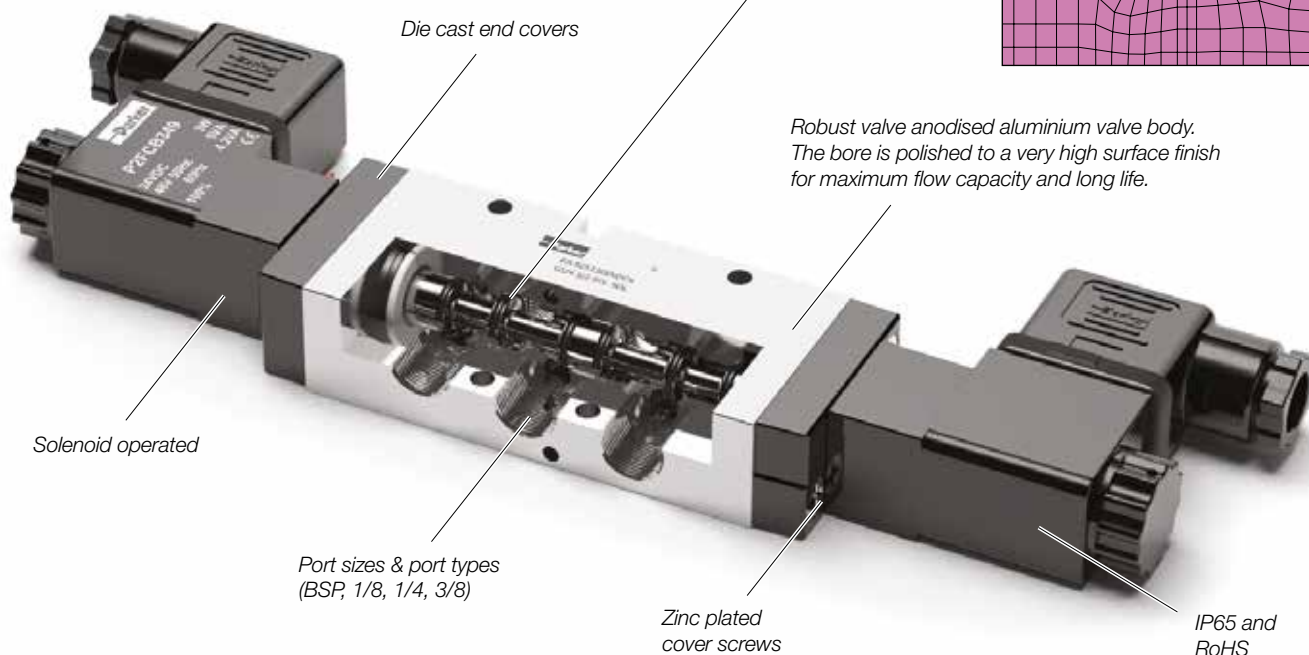
This sealing method reduces friction gives lower pilot pressures, providing fast response and less wear. Valves do not require lubrication in operation but they can also be installed in systems that are lubricated.

Viking Lite range

P2LAZ, G1/8 - Cv = 0.6

P2LBZ, G1/4 - Cv = 1.5

P2LCZ, G3/8 - Cv = 2.5



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.

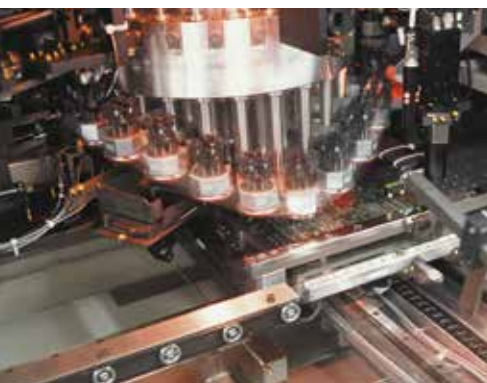
Pressure bar installation

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

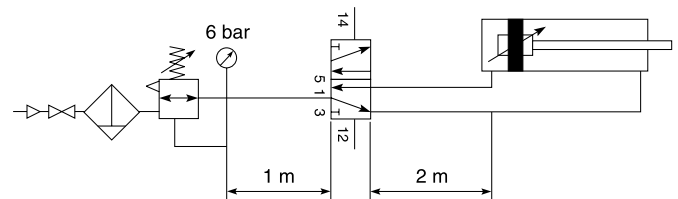
Quality class	Pollution		Water max. press. dew point (°C)	Oil max. concentration (mg/m ³)
	particle size (µm)	max. concentration (mg/m ³)		
1	0,1	0,1	-70	0,01
2	1	1	-40	0,1
3	5	5	-20	1,0
4	15	8	+3	5,0
5	40	10	+7	25
6	-	-	+10	-

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

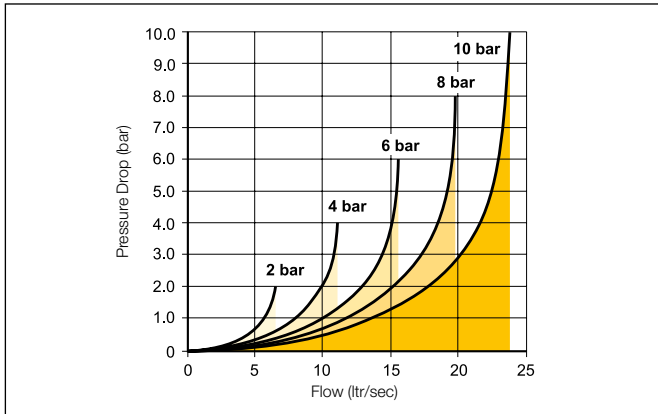
Flow characteristics

Flow capacities in accordance with ISO6358

All pressures = effective pressure

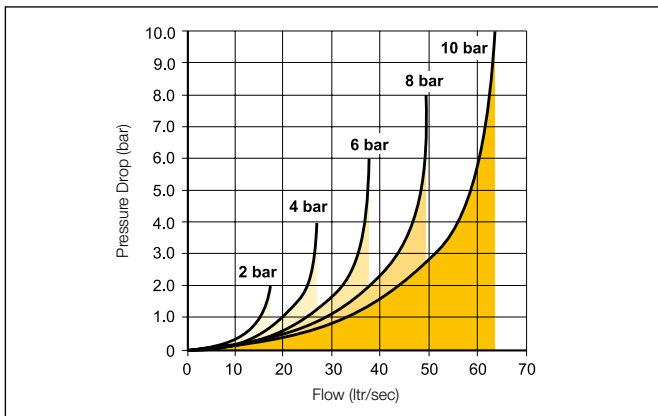
The curves in the diagram below are typical only

Technical Data P2LAZ



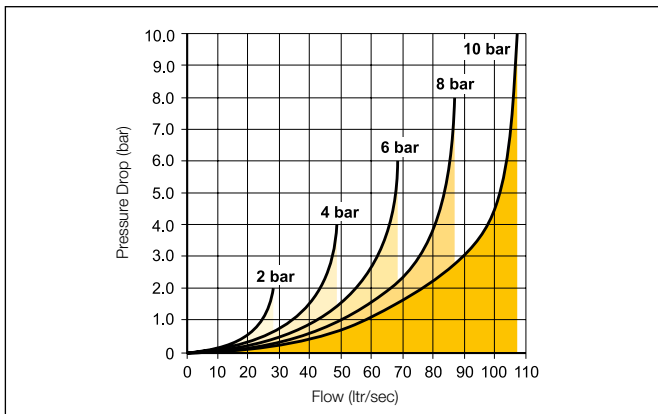
Port size	G1/8
Maximum Operating pressure	10 bar
Working temperature.	-10°C to + 50°C
Flow (acc. to ISO 6358)	c = 2.2 NI/s x bar b = 0.3 Qn = 10.1 l/s Qmax = 15.6 l/s Cv = 0.6

Technical Data P2LBZ



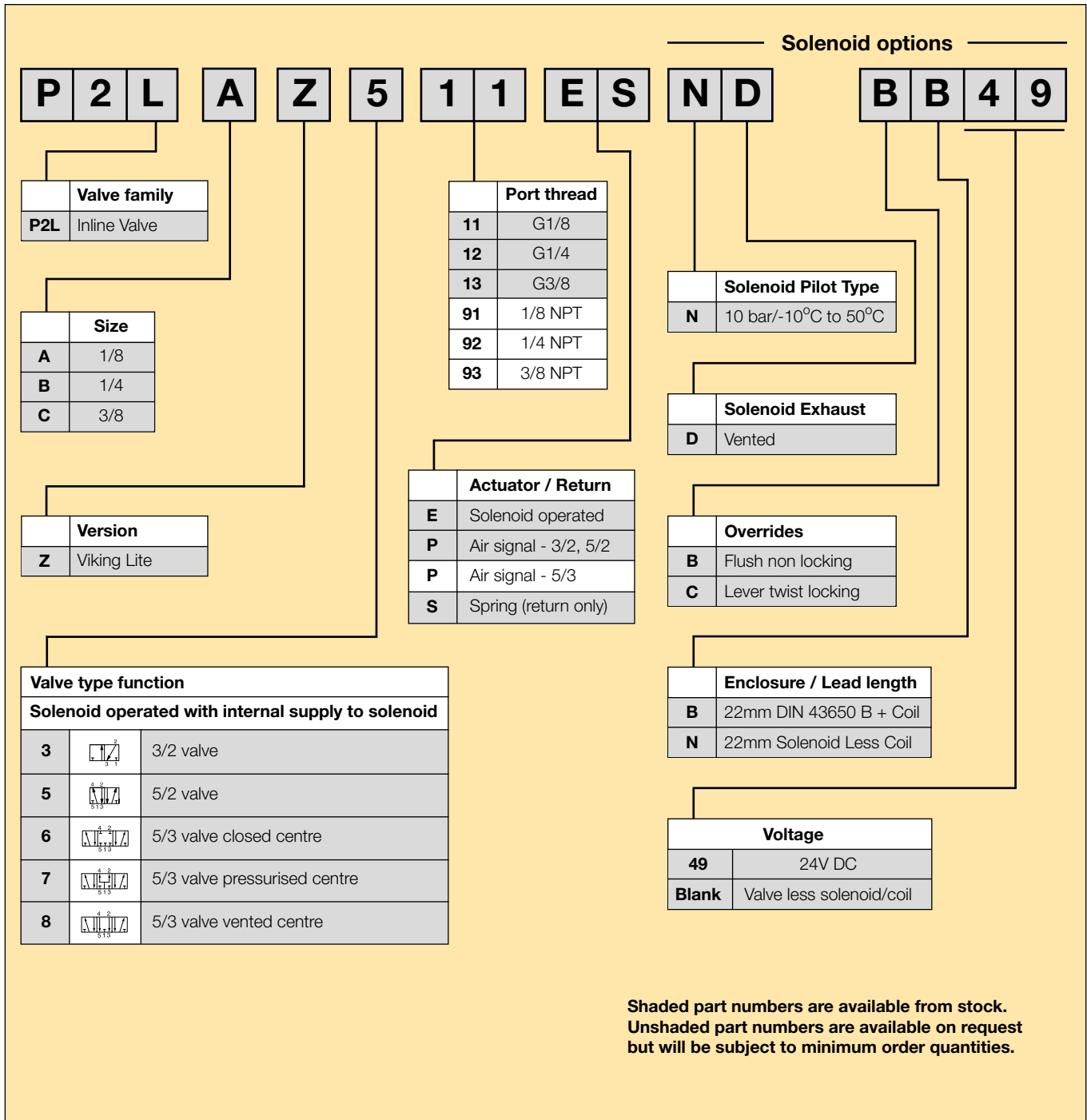
Port size	G1/4
Maximum Operating pressure	10 bar
Working temperature.	-10°C to + 50°C
Flow (acc. to ISO 6358)	c = 5.4 NI/s x bar b = 0.3 Qn = 24.6 l/s Qmax = 37.8 l/s Cv = 1.5

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 NI/s x bar b = 0.3 Qn = 41.5 l/s Qmax = 68.3 l/s Cv = 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

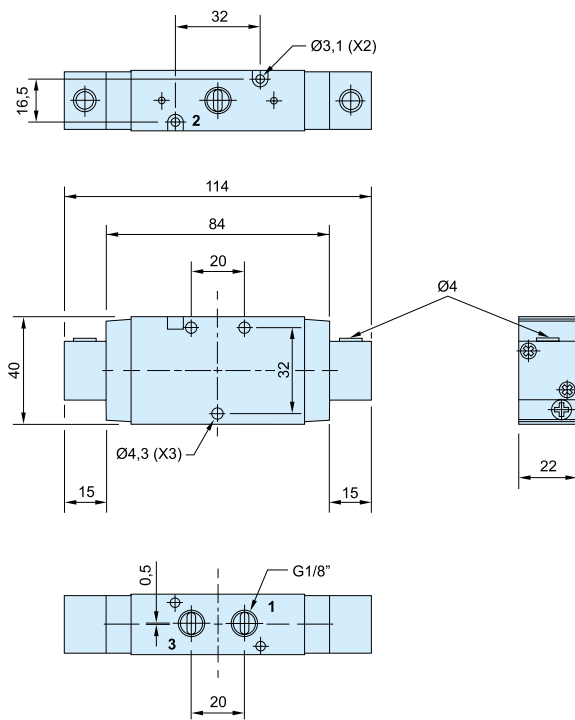
Symbol	Size	Actuation	Return	Min Operating Pressure (bar)	Changeover time (ms) at 6 bar @20°C actua./return	Weight Kg	Order code Without coil	Order code With 24V DC (22mm coil)
	G1/8	Air signal	Air signal	1.5	5/5	0.18	P2LAZ511PP	
	G1/4			1.5	6/6	0.18	P2LBZ512PP	
	G3/8			1.5	8/8	0.36	P2LCZ513PP	
	G1/8	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

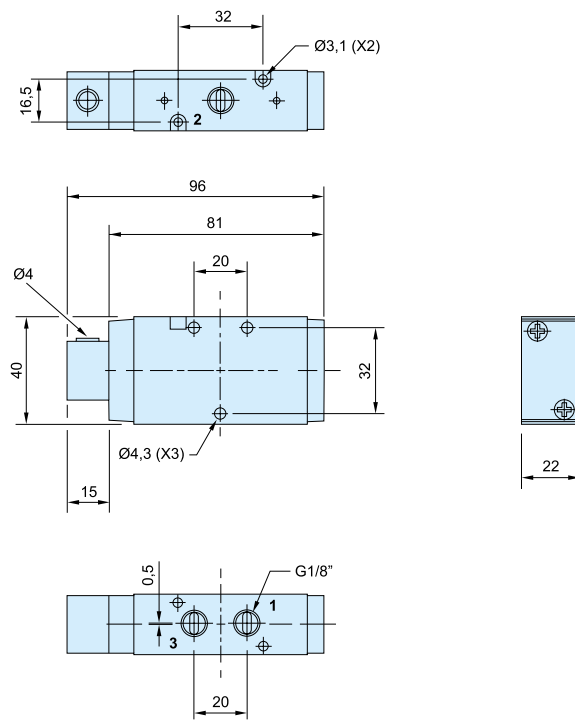
Symbol	Size	Actuation	Return	Min Operating Pressure (bar)	Changeover time (ms) at 6 bar @20°C actua./return	Weight Kg	Order code Without coil	Order code With 24V DC (22mm coil)
	G1/8	Electric/Electric	Self centring	3.0	18/40	0.26	P2LAZ611EENDCN	P2LAZ611EENDCB49
	G1/4		Closed	3.0	22/55	0.28	P2LBZ612EENDCN	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

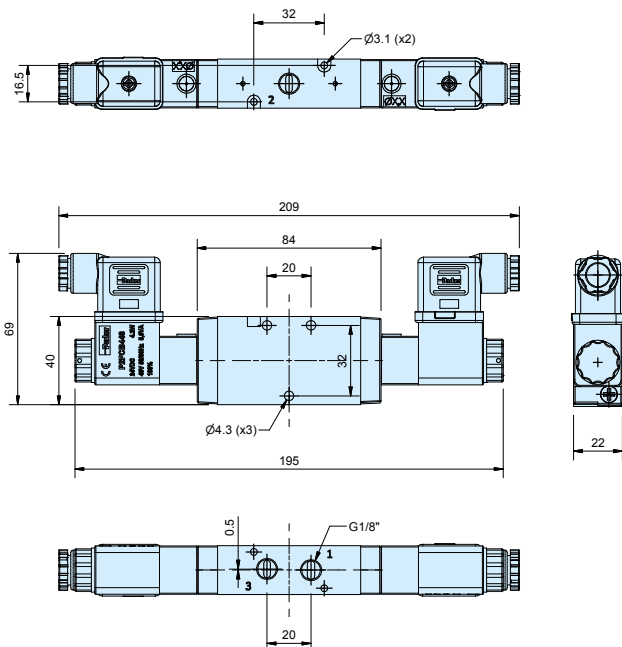
P2LAZ 3/2
 Air / Air



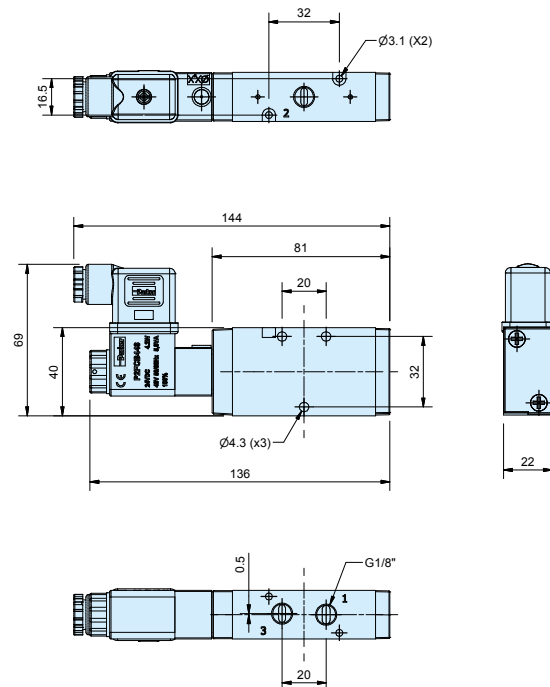
P2LAZ 3/2
 Air / Spring



P2LAZ 3/2
 Solenoid / Solenoid



P2LAZ 3/2
 Solenoid / Spring

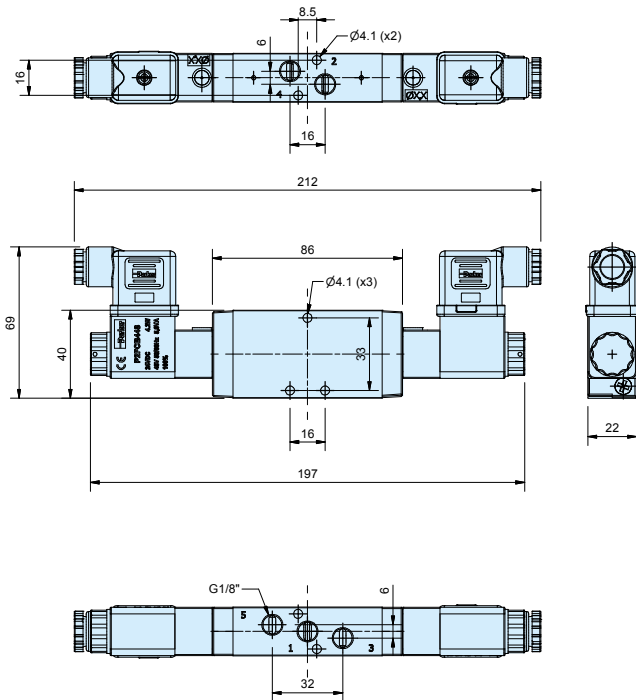


Solenoid valves

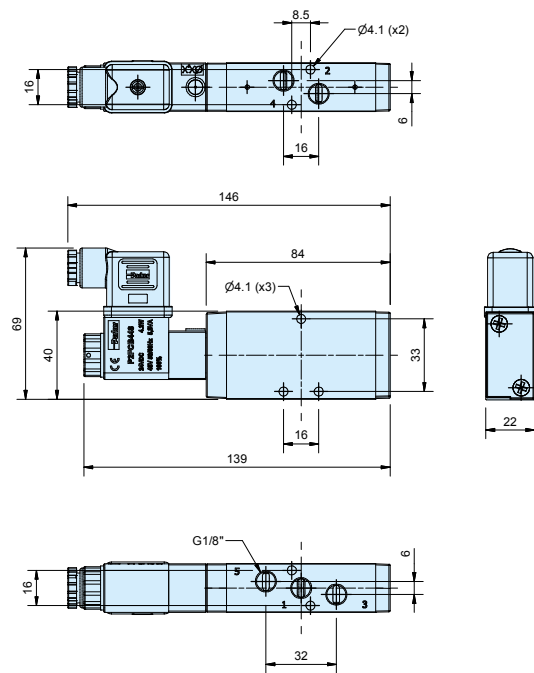
Solenoid valves and cable plugs must be ordered separately.
 One pilot valve is required for each E (NDCN only) in the valve order code.

Dimensions

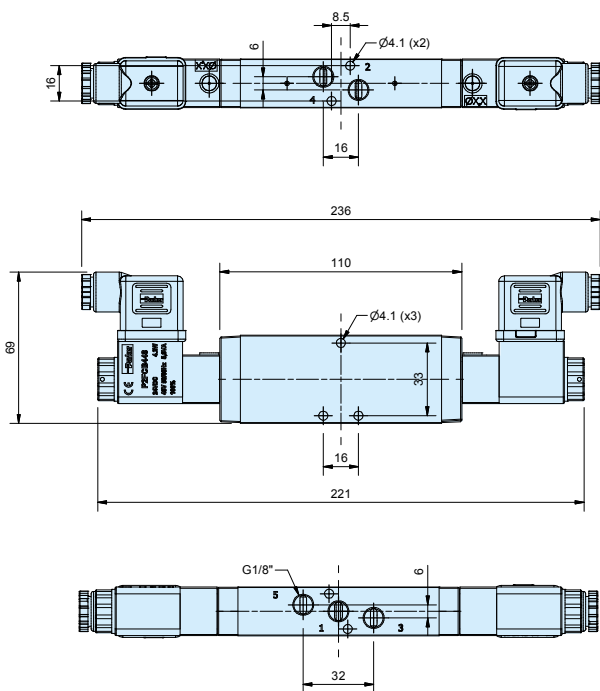
P2LAZ 5/2
Solenoid / Solenoid



P2LAZ 5/2
Solenoid / Spring



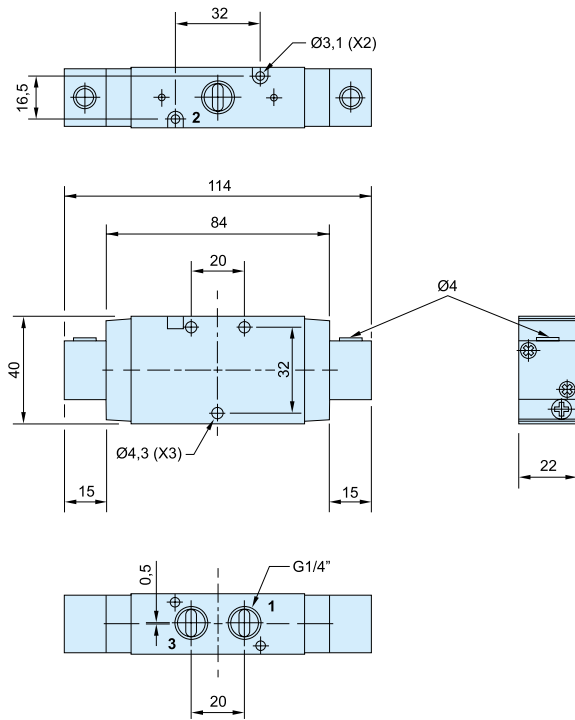
P2LAZ 5/3
Solenoid / Solenoid



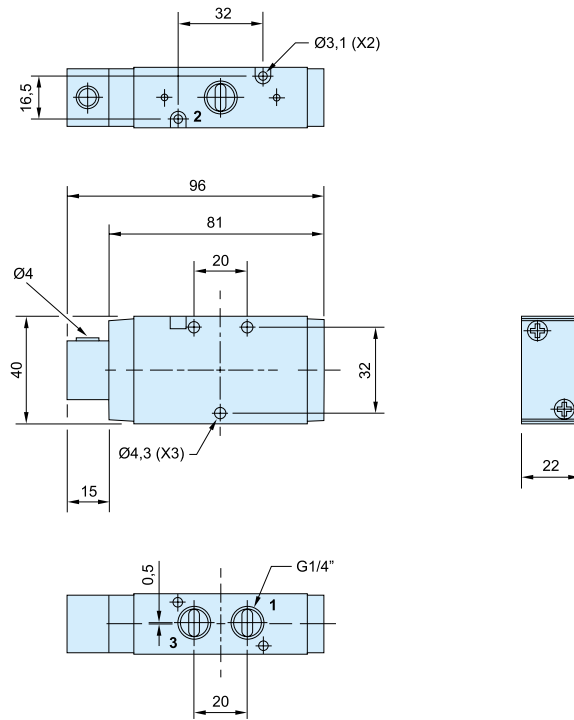
Solenoid valves
 Solenoid valves and cable plugs must be ordered separately.
 One pilot valve is required for each E (NDCN only) in the valve order code.

Dimensions

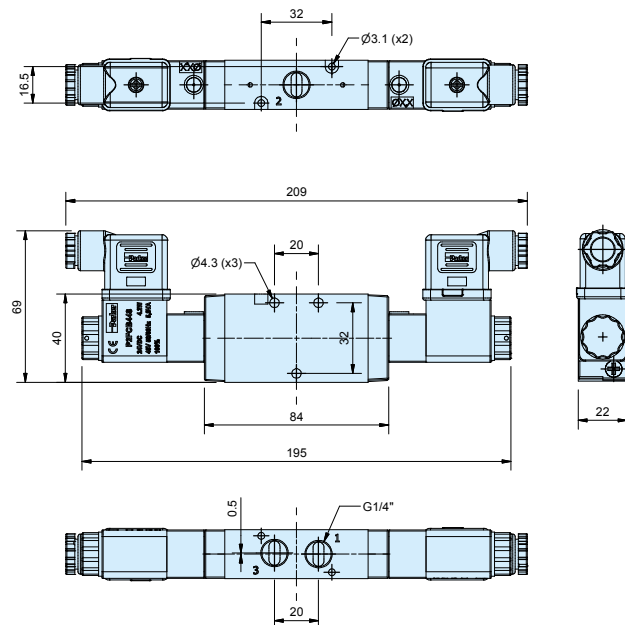
P2LBZ 3/2
Air / Air



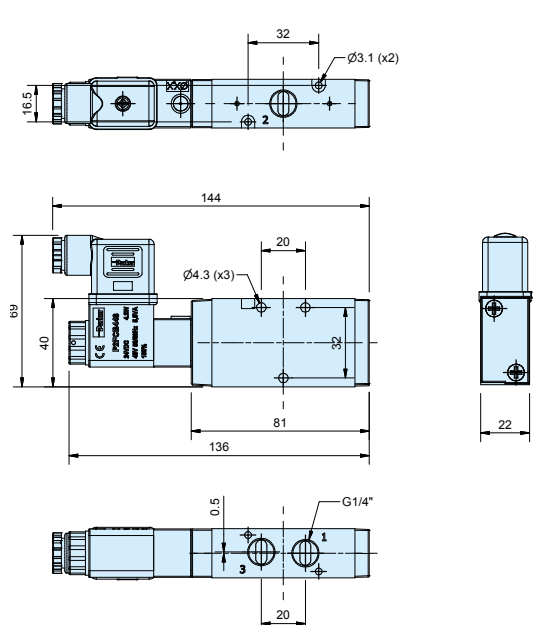
P2LBZ 3/2
Air / Spring



P2LBZ 3/2
Solenoid / Solenoid



P2LBZ 3/2
Solenoid / Spring

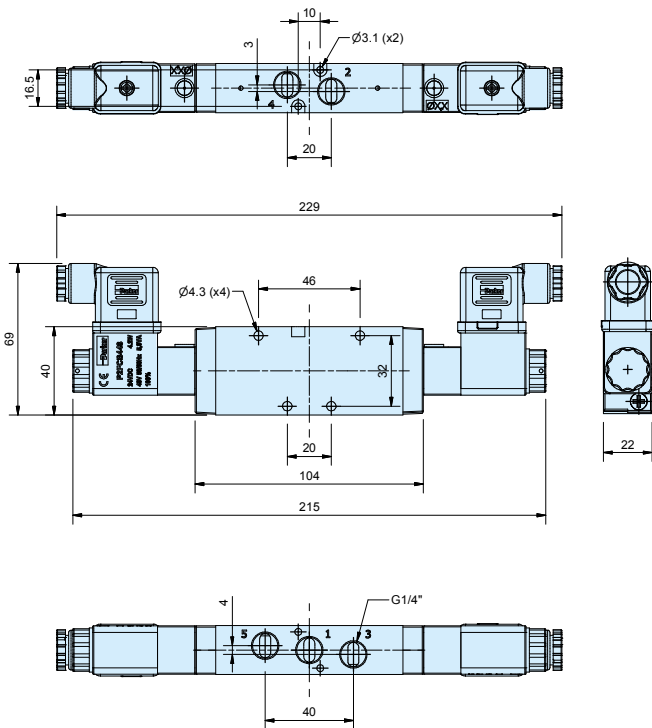


Solenoid valves

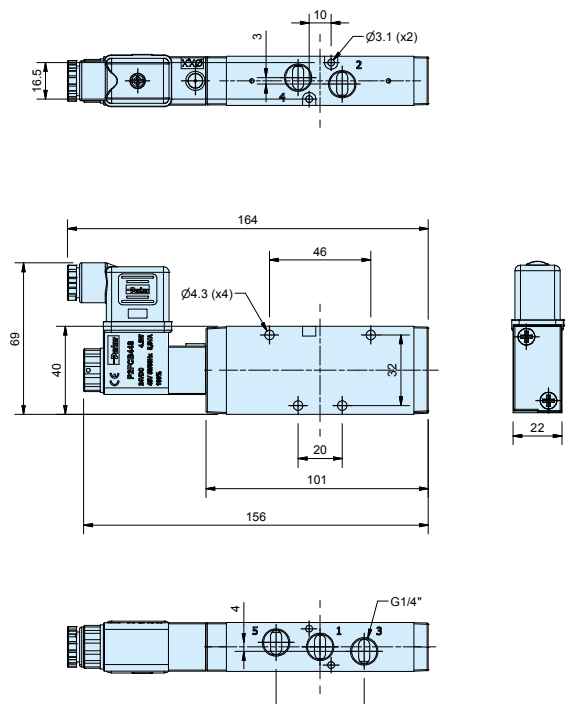
Solenoid valves and cable plugs must be ordered separately. One pilot valve is required for each E (NDCN only) in the valve order code.

Dimensions

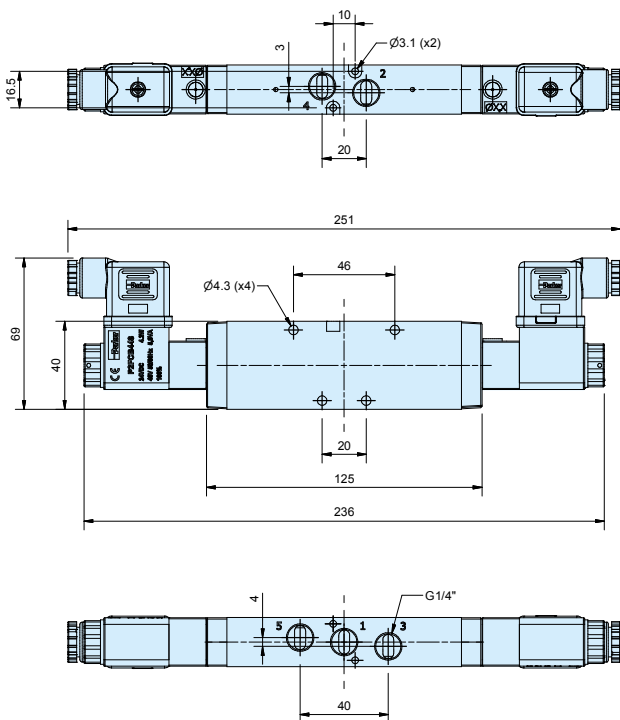
P2LBZ 5/2
Solenoid / Solenoid



P2LBZ 5/2
Solenoid / Spring



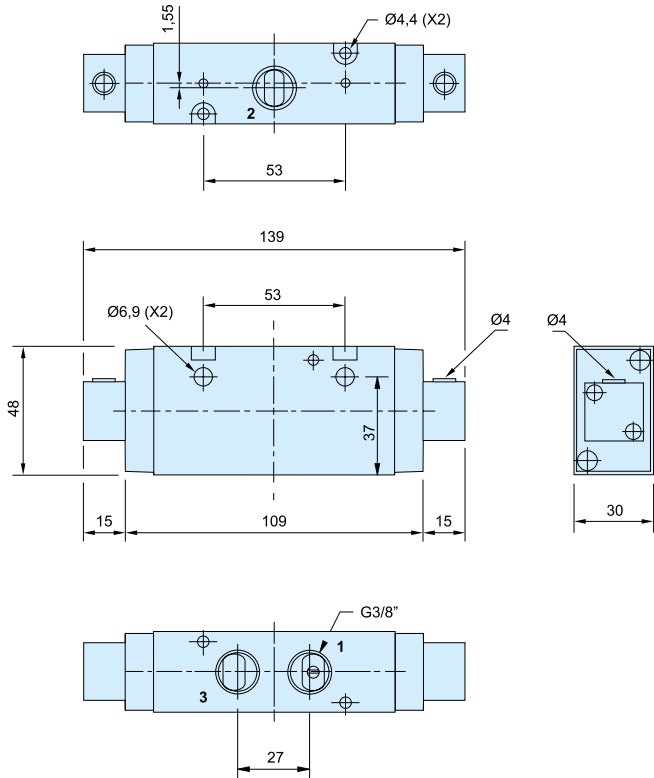
P2LBZ 5/3
Solenoid / Solenoid



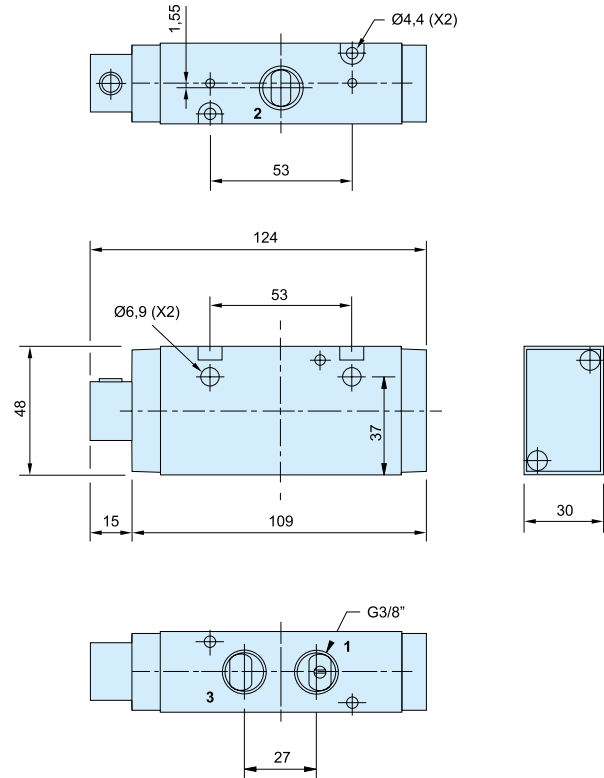
Solenoid valves
Solenoid valves and cable plugs must be ordered separately.
One pilot valve is required for each E (NDCN only) in the valve order code.

Dimensions

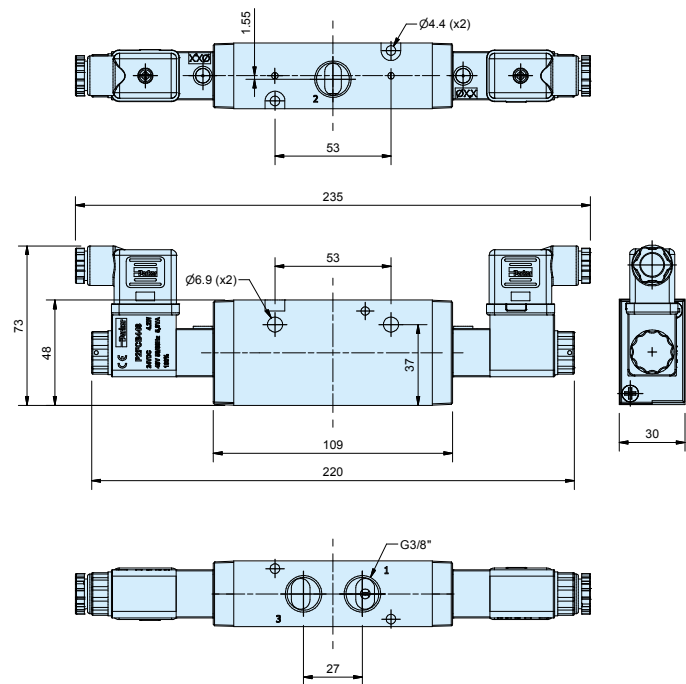
P2LCZ 3/2
Air / Air



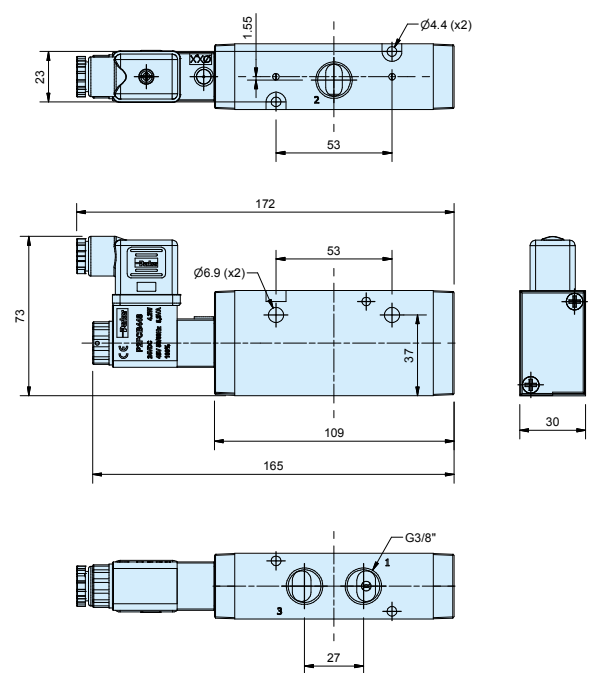
P2LCZ 3/2
Air / Spring



P2LCZ 3/2
Solenoid / Solenoid

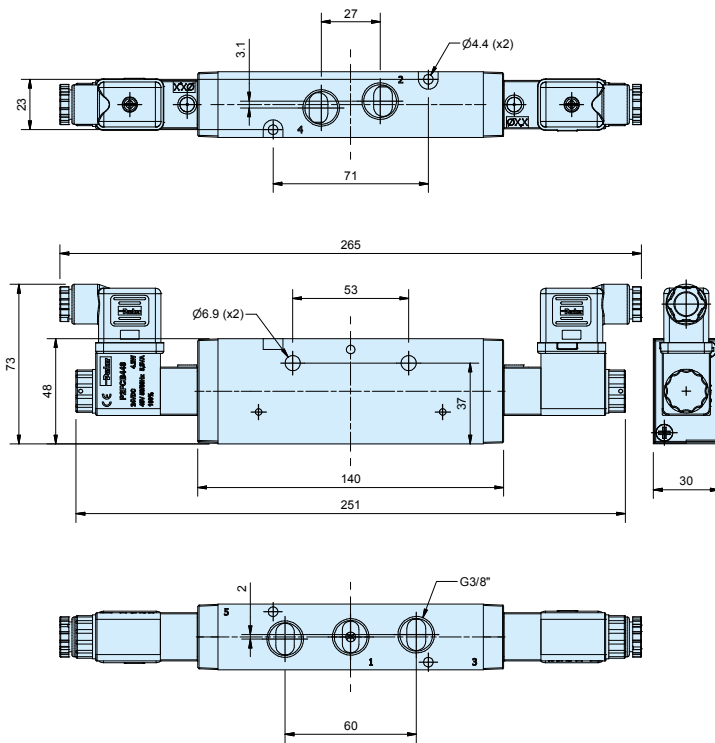


P2LCZ 3/2
Solenoid / Spring

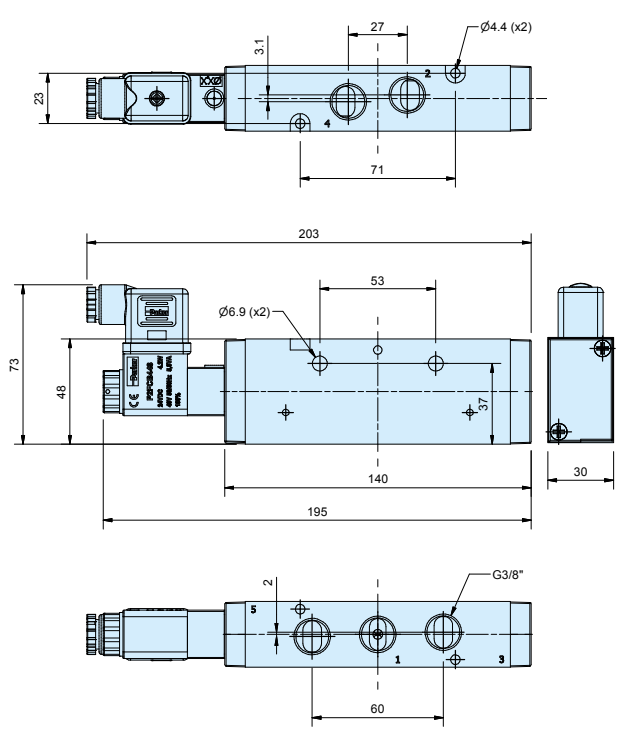


Dimensions

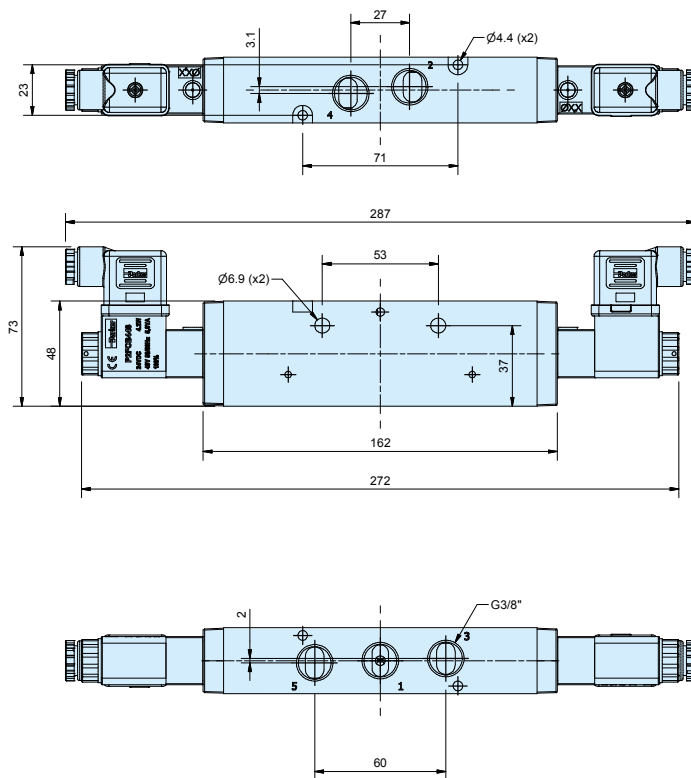
P2LCZ 5/2
Solenoid / Solenoid





P2LCZ 5/2
Solenoid / Spring



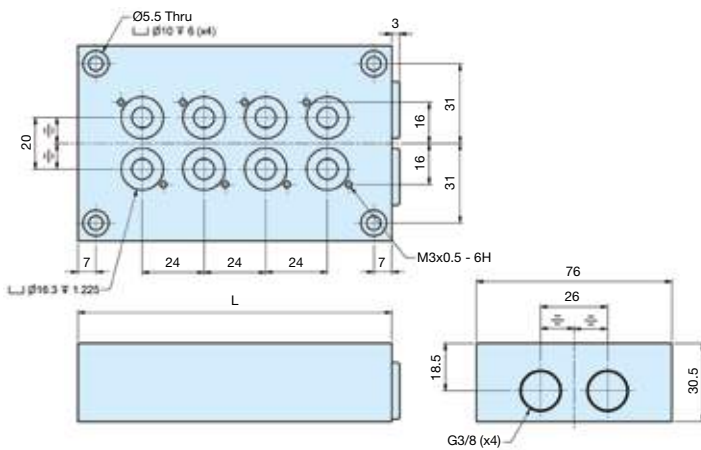
P2LCZ 5/3
Solenoid / Solenoid



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

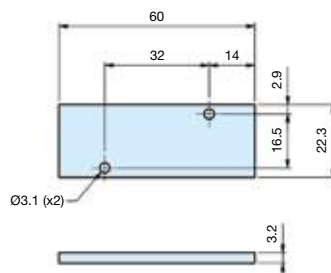
Dimensions








Manifold bar



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

Blanking plate for manifold bar, P2LB

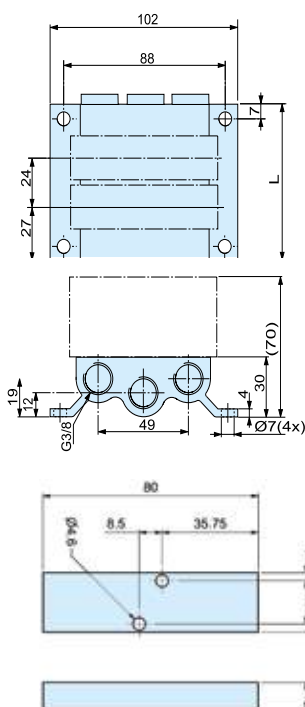


Accessories	Type P2LA 5/2 valves	Weight kg	Order code		
	Manifold bar, P2LA including seals, mounting screws. G3/8 For 4 valves For 6 valves For 8 valves For 10 valves For 12 valves For 14 valves	0.48 0.63 0.80 0.98 1.10 1.23	9121658075 9121658076 9121658077 9121658078 9121658079 9121658099		
		Blanking 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 For 4 valves For 6 valves For 8 valves	0.13 0.20 0.26 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		

Dimensions

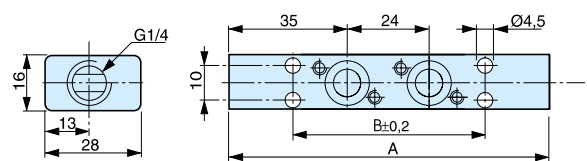
Manifold bar, P2LA

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

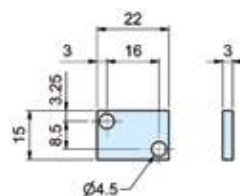


Blanking plate for manifold bar, P2LA





Pressure bar, P2LA



Blanking plate for pressure bar, P2LA

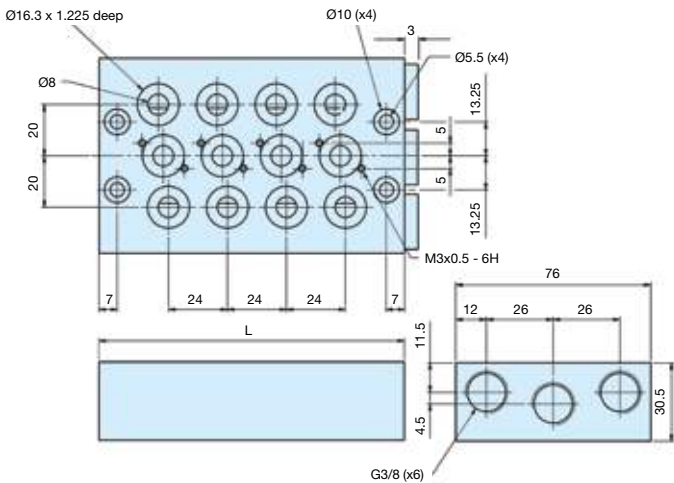


No. of valves	A mm	B mm
2	94	56
4	142	104
6	190	152
8	238	200

Accessories	Type P2LB 5/2 valves	Weight kg	Order code
	Manifold bar, P2LB incl. fasteners and O-ring. G3/8 For 2 valves For 4 valves For 6 valves For 8 valves For 10 valves	0.69 1.13 1.56 2.00 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 mounting screws. G3/8 For 2 valves For 4 valves For 6 valves For 8 valves For 10 valves	0.38 0.53 0.68 0.83 0.99	9127113301X 9127113302X 9127113303X 9127113304X 9127113305X
	Blanking plate P2LB for Pressure bar. G1/4	0.02	9127113306X

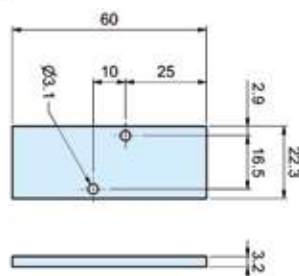
Dimensions

Manifold bar, P2LB

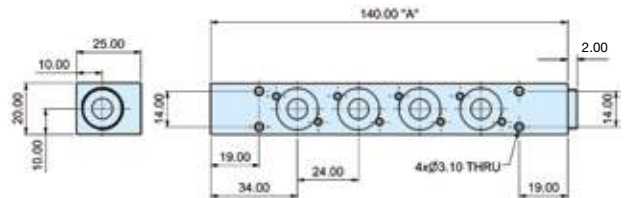


No. of valves	L mm
2	74
4	122
6	170
8	218
10	266

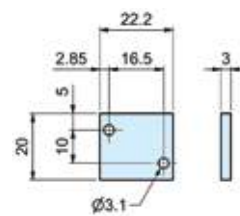
Blanking plate for manifold bar, P2LB



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.

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°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.

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	P2FCB440
24V 50/60Hz	0.093	P2FCB442
12V DC	0.093	P2FCB445
24V DC	0.093	P2FCB449
48V DC	0.093	P2FCB451
110V/50Hz, 120V/60Hz	0.093	P2FCB453
230V/50Hz, 230V/60Hz	0.093	P2FCB457

Spare Solenoid Nuts


Valves requiring captured exhaust should be fitted with plastic knurled nut

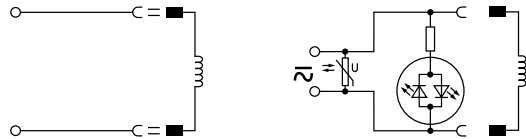
Order code
P2FNP

Valves with vented exhaust are fitted with diffuser plastic nut

Order Code
P2FND

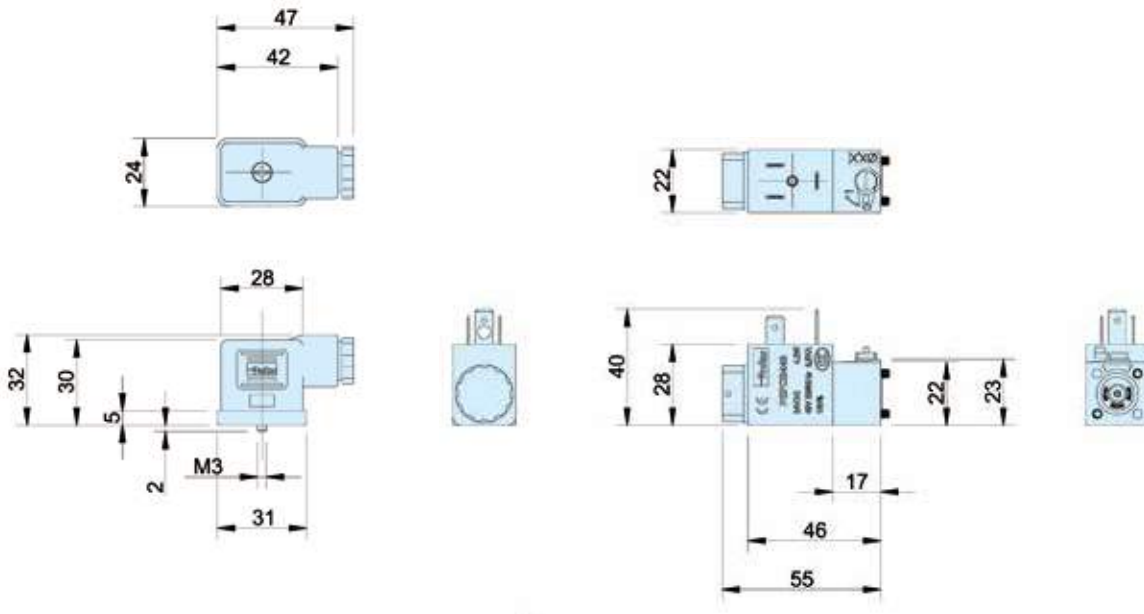
Solenoid Connectors / Cable Plugs EN175301-803

	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)



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: +375 17 209 9399
parker.belarus@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

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: +380 44 494 2731
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 12 4009 3500

CL – Chile, Santiago

Tel: +562 2303 9640

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

