



PVL-B & PVL-C Inline valves


Stackable, Stand-alone and Valvetronic


PDE2628TCUK




ENGINEERING YOUR SUCCESS.

OVERVIEW

 **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.

SALE CONDITIONS
The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).

Summary

Page

Product Overview 4

PVL-B & PVL-C Traditional Wiring Series - Order code 5

 Head and Tail Set 5

 Accessories 5

 Stackable Valve Series PVL-B12 / PVL-C12 6

 Stand-alone Valve Series PVL-B11 / PVL-C11 7

 Modular Pilot System 7

 For PVL-B / PVL-C low power solenoid body 8

 For PVL-C high power solenoid body 9

PVL-B Valvetronic Series - Order code 10

 Presentation 10

 Head & Tail Set 11

 Accessories 11

 Valve 12 - 13

 Solenoid Pilots and Spare Set 13

Technical Characteristics 14

Mounting 15

Dimensions 16 - 19

**PVL-B size
18 mm width**



**PVL-C size
25 mm width**



PVL -B12 / -C12

Traditional wiring Stackable Series

The PVL Series stacking system permits assembly of several valves into one stack. Supply is connected at either a single or a dual head/tail set. Two common exhaust galleries are provided. Connections to outlet ports 2 and 4 on each valve can be accomplished by threaded pipe or instant tube fittings. Electrical connection is made to each solenoid using a 15 mm - 3 pin - 8 mm spacing connector plug. Each stack assembly can handle any combination of the following valve types :

- Single or double solenoid
- Single or double Remote air Pilot

Both PVL-B & PVL-C valve sizes can be combined in one stack using a transition kit.



PVL -B11 / -C11

Traditional wiring Stand- alone Series

Very useful to control isolated cylinders, these stand-alone valve Series are compact and easy to mount on the machines close to the actuator with neat electrical or remote pneumatic pilot. Available with solenoid pilots traditional wiring or remote air pilot, these Series can also be stacked and mixed into a stacking valve island Series.



PVL -B10

Valvetronic Stackable Series

Including an integrated electrical connection, the Valvetronic Series allowed a multi-wiring connection. The construction of the stack determines the relationship of each connector pin and the device is to control. The address of each solenoid valve is based on its physical position in the stack. Each stack assembly can handle any combination of pneumatic functions.

Stacking high flow valves with air pilot or solenoid actuation. Light weight 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



Head and tail sets and intermediate supply modules

	Type of mounting	Description	Valve size	Port size	Weight (g)	Order code
	On DIN rail	Single air supply head and tail set	PVL-B	G1/4	175	PVL-B1719
			PVL-C	G3/8	195	PVL-C1713
		Dual air supply head and tail set	PVL-B	G1/4	245	PVL-B1729
			PVL-C	G3/8	285	PVL-C1723
	Surface	Single air supply head and tail set	PVL-B	G1/8	200	PVL-B1818
			PVL-C	G1/4	225	PVL-C1819
		Dual air supply head and tail set	PVL-B	G1/8	260	PVL-B1828
			PVL-C	G1/4	280	PVL-C1829
	On DIN rail	Intermediate supply module	PVL-B	G1/8	150	PVU-LBB118
			PVL-C	G1/4	200	PVU-LCC119
	On DIN rail	Kit for stacking PVL-B & PVL-C Including : - 1 transfert / take-off module - 1 PVL-C head module - 1 PVL-B end plate	PVL-C/B	G1/4-G1/8	640	PVU-LCB119


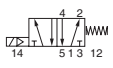
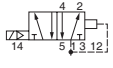
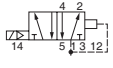

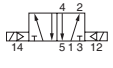
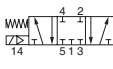
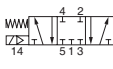


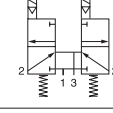
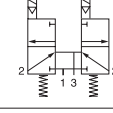
Spare mounting and assembly kits

	Description	Valve size	Port size	Weight (g)	Order code
	Kit for sealing the inlet/exhaust common gallery including : PVL-C - 3 common blanking plugs - 2 drilled and threaded rods - 2 screws for extended tie rod	PVL-B		35	PVL-B1901
		PVL-C		65	PVL-C1901
	Pack of 10 common blanking	PVL-B		35	PVL-B1902
		PVL-C		65	PVL-C1902
	Pack of 10 stacking rods	PVL-B		35	PPR-V21
		PVL-C		65	PPR-V22
	Pack of 20 rail clip assembly	PVL-B / PVL-C		70	PPR-L09
	Pack of 30 O-ring seals for common inlet/exhaust ports	PVL-B		15	PPR-V23
		PVL-C		15	PPR-V24

PVL-B & -C valve module for electric low power solenoid or air actuator

Valve module without actuator







For use with air-pilot connector or 1,2 W / 1,6 VA solenoid valve

Symbol	Description	Valve size	Connection	Weight (g)	Order code
 	5/2 single acting / Spring return	PVL-B	Push-in Ø 6 mm	125	PVL-B121606
			G 1/8	125	PVL-B121618
		PVL-C	Push-in Ø 8 mm	240	PVL-C121608
			G 1/4	240	PVL-C121619
			G 3/8	240	PVL-C121613
		 	5/2 single acting / Air spring return	PVL-B	Push-in Ø 6 mm
G 1/8	125				PVL-B123618
PVL-C	Push-in Ø 8 mm			240	PVL-C123608
	G 1/4			240	PVL-C123619
	G 3/8			240	PVL-C123613
 	5/2 double acting			PVL-B	Push-in Ø 6 mm
		G 1/8	120		PVL-B122618
		PVL-C	Push-in Ø 8 mm	230	PVL-C122608
			G 1/4	230	PVL-C122619
			G 3/8	230	PVL-C122613
		 	5/3 APB (All Ports Blocked)	PVL-B	Push-in Ø 6 mm
G 1/8	130				PVL-B127618
PVL-C	Push-in Ø 8 mm			250	PVL-C127608
	G 1/4			250	PVL-C127619
	G 3/8			250	PVL-C127613
 	5/3 Vented centre			PVL-C	Push-in Ø 8 mm
		G 1/4	250		PVL-C128619
 	Double 3/2 Normally Closed (NC)	PVL-B	Push-in Ø 6 mm	130	PVL-B125606
			G 1/8	130	PVL-B125618

PVL-C valve module for electric high power solenoid or air actuator

Valve module without actuator

For use with air-pilot connector or 6 W / 8,5 VA solenoid valve

Symbol	Description	Valve size	Connection	Weight (g)	Order code
 	5/2 single acting / Spring return	PVL-C	Push-in Ø 8 mm	250	PVL-C121408
			G 1/4	250	PVL-C121419
 	5/2 single acting / Air spring return	PVL-C	Push-in Ø 8 mm	250	PVL-C123408
			G 1/4	250	PVL-C123419
 	5/2 double acting	PVL-C	Push-in Ø 8 mm	240	PVL-C122408
			G 1/4	240	PVL-C122419

Each valve module is supplied with two tie rods for use in the "stacking" system.



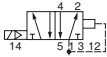
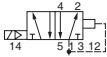

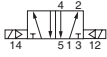
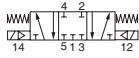
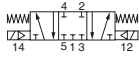


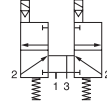
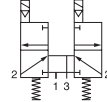
The above valve operator can be either :

- Pneumatic, by adding one or two air pilot connectors including a Ø4 mm push-in fitting or a threaded M5 port ;
- Electric, by adding one or two 1,2 W / 1,6 VA solenoids (PVL-B or C) or 6 W / 8,5 VA (PVL-C).

PVL-B & -C valve module for electric low power solenoid or air actuator

Valve module without actuator







For use with air-pilot connector or 1,2 W / 1,6 VA solenoid valve

Symbol	Description	Valve size	Connection	Weight (g)	Order code
 	5/2 single acting / Spring return	PVL-B	Push-in Ø 6 mm	125	PVL-B111606
			G 1/8	125	PVL-B111618
	PVL-C	Push-in Ø 8 mm	240	PVL-C111608	
		G 1/4	240	PVL-C111619	
		G 3/8	240	PVL-C111613	
	 	5/2 single acting / Air spring return	PVL-B	Push-in Ø 6 mm	125
			G 1/8	125	PVL-B113618
PVL-C		Push-in Ø 8 mm	240	PVL-C113608	
		G 1/4	240	PVL-C113619	
		G 3/8	240	PVL-C113613	
 		5/2 double acting	PVL-B	Push-in Ø 6 mm	120
			G 1/8	120	PVL-B112618
	PVL-C	Push-in Ø 8 mm	230	PVL-C112608	
		G 1/4	230	PVL-C112619	
		G 3/8	230	PVL-C112613	
	 	5/3 APB (All Ports Blocked)	PVL-B	Push-in Ø 6 mm	130
			G 1/8	130	PVL-B117618
PVL-C		Push-in Ø 8 mm	250	PVL-C117608	
		G 1/4	250	PVL-C117619	
		G 3/8	250	PVL-C117613	
 		5/3 Vented centre	PVL-C	Push-in Ø 8 mm	250
			G 1/4	250	PVL-C118619
 	Double 3/2 Normally Closed (NC)	PVL-B	Push-in Ø 6 mm	130	PVL-B115606
			G 1/8	130	PVL-B115618

PVL-C valve module for electric high power solenoids or air actuator

Valve module without actuator

For use with air-pilot connector or 6 W / 8,5 VA solenoid valve

Symbol	Description	Valve size	Connection	Weight (g)	Order code
 	5/2 single acting / Spring return	PVL-C	Push-in Ø 8 mm	250	PVL-C111408
			G 1/4	250	PVL-C111419
 	5/2 single acting / Air spring return	PVL-C	Push-in Ø 8 mm	250	PVL-C113408
			G 1/4	250	PVL-C113419
 	5/2 double acting	PVL-C	Push-in Ø 8 mm	240	PVL-C112408
			G 1/4	240	PVL-C112419

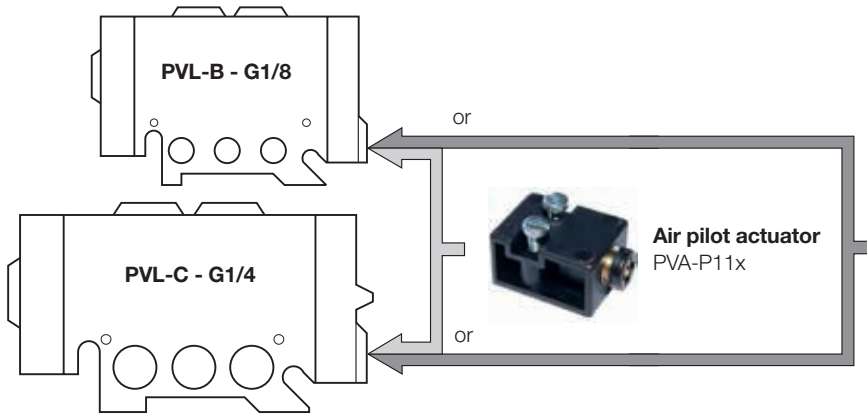
Each valve module is supplied with two tie rods for use in the "stacking" system.

The above valve operator can be either :

- Pneumatic, by adding one or two air pilot connectors including a Ø4 mm push-in fitting or a threaded M5 port ;
- Electric, by adding one or two 1,2 W / 1,6 VA solenoids (PVL-B or C) or 6 W / 8,5 VA (PVL-C).

Modular piloting system


PVL-B & PVL-C valve module for air-pilot connector or lower power (1,2 W / 1,6 VA) solenoid valve




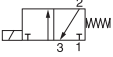
Low power 15 mm solenoid valve actuator + 15 mm connector IP65
 P2E-KVx + P8x-x
 Option : Protection P8V-CRx





Air-pilot actuator for PVL-B and PVL-C valve

Description	Pneumatic connection	Weight (g)	Order code
 Air-pilot actuator for PVL-B & PVL-C 15mm solenoid body	Push-in Ø 4 mm	7	PVA-P111
	Threaded M5	2	PVA-P115

Solenoids 15mm 1,2 W / 1,6 VA (230 VAC 2,4 VA)
 (8mm pin spacing)

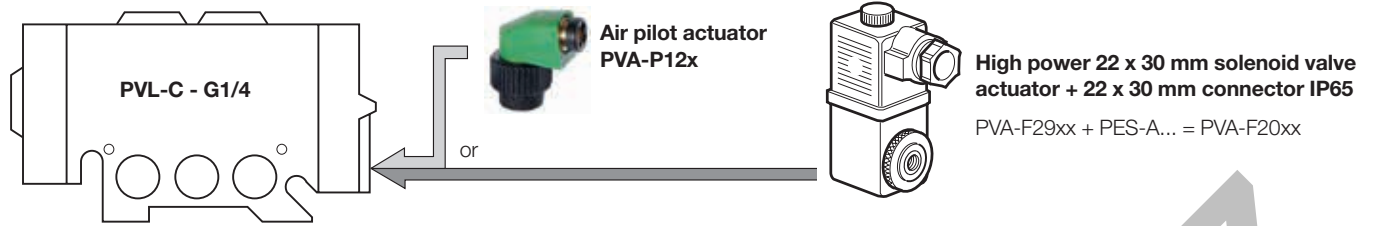
Description	Voltage	Weight (g)	Manual override		
			Without Order code	Spring return Order code	Indexing Order code
  Solenoid valve 15 mm	12 VDC	38	P2E-KV32B0	P2E-KV32B1	P2E-KV32B2
	24 VDC	38	P2E-KV32C0	P2E-KV32C1	P2E-KV32C2
	48 VDC	38	P2E-KV32D0	P2E-KV32D1	P2E-KV32D2
	24 V 50/60Hz	38	P2E-KV31C0	P2E-KV31C1	P2E-KV31C2
	48 V 50/60Hz	38	P2E-KV34D0	P2E-KV34D1	P2E-KV34D2
	115 V 50Hz, 120 V 60Hz	38	P2E-KV31F0	P2E-KV31F1	P2E-KV31F2
	230 V 50Hz, 240 V 60Hz	38	P2E-KV31J0	P2E-KV31J1	P2E-KV31J2
Pack of 20 seals	All solenoids	5	-	-	PPR-V20

Cable plugs 15 mm - IP65
 (8mm pin spacing)


Description	Electrical protection	Cable length	Weight (g)	Order code
 Large headed screw For inaccessible or recess position	No protection	No cable	16	P8C-C
	LED + Protection 24 VDC	No cable	16	P8C-C26C
 Standard screw	No protection	No cable	11	P8C-D
		2 m cable	97	P8L-C2
		5 m cable	228	P8L-C5
	LED + Protection 24 VDC	No cable	11	P8C-D26C
	LED + Protection 24 VDC/AC	2 m cable	97	P8L-C226C
	5 m cable	229	P8L-C526C	

Modular piloting system

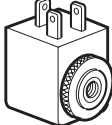
PVL-C valve module for air-pilot connector or 6 W / 5,8 VA solenoid valve





Air-pilot actuator

Description	Pneumatic connection	Weight (g)	Order code
 Air-pilot actuator for PVL-C 22 x 30 solenoid body	Push-in Ø 4 mm - Elbow	4	PVA-P121
	Push-in Ø 4 mm - Swivel	7	PVA-P122
	Threaded M5	4	PVA-P125
Pack of 50 O-ring seals		7	PPR-V25

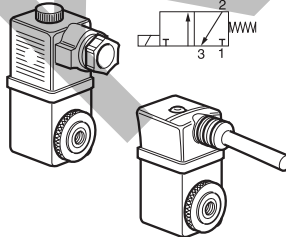
Solenoids Pilot 22 x 30 - DIN form B - 6 W / 5,8 VA Without manual override

Description	Voltage	Weight (g)	Order code
 Solenoid valve 22 x 30 mm Without cable connector	12 VDC	90	PVA-F292J
	24 VDC	90	PVA-F292B
	48 VDC	90	PVA-F292E
	24 V 50/60Hz	90	PVA-F291B
	48 V 50/60Hz	90	PVA-F291E
	115 V 50Hz, 120 V 60Hz	90	PVA-F291F
	230 V 50Hz, 240 V 60Hz	90	PVA-F291M

Electrical connector 22 x 30 mm

Description	Electrical protection	Weight (g)	Order code
 Connector to be wired	No protection	25	PES-A10
	LED + Protection 24 V AC/DC	26	PES-A2020B
	LED + Protection 230 V AC	26	PES-A2001M
 Connector with 2 m cable (earth terminal opposite cable)	No protection	150	PES-A12
	LED + Protection 24 V AC/DC	151	PES-A2220B

Solenoids 22 x 30 - 6 W / 8,5 VA - Equipped with cable connector (Without manual override)

Description	Voltage	Cable length		
		Without cable Order code	2 meters Order code	5 meters Order code
 Solenoid valve 22 x 30 mm With cable connector	24 VDC	PVA-F202B	PVA-F202B0	PVA-F202B1
	48 VDC	PVA-F202E	PVA-F202E0	PVA-F202E1
	24 V 50/60Hz	PVA-F201B	PVA-F201B0	PVA-F201B1
	48 V 50/60Hz	PVA-F201E	PVA-F201E0	PVA-F201E1
	115 V 50Hz, 120 V 60Hz	PVA-F201F	PVA-F201F0	PVA-F201F1
	230 V 50Hz, 240 V 60Hz	PVA-F201M	PVA-F201M0	PVA-F201M1
	255 V 50Hz	PVA-F201U	PVA-F201U0	PVA-F201U1

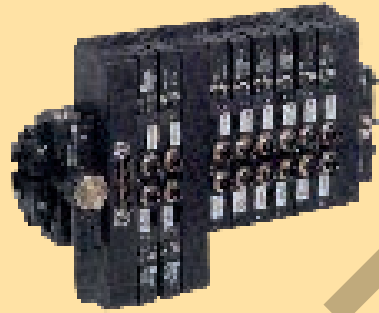
*** Version available for use in explosive atmospheres :**

- conforming to certification LCIE 866115 X.
- electrical equipment conforming to harmonised European standards
- marking code EExe II T4 (Consult Technical Sales Office).

EN 500 14 dated March 1977 (NFC23 514 dated May 1982)
EN 500 19 dated March 1977 (NFC23 519 dated May 1982)

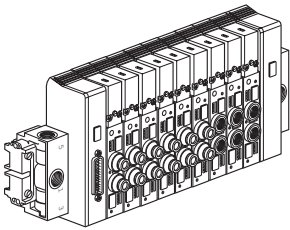
PVL-B Valvetronic Series

- High flow, compact, light weight
- Push-in or threaded pneumatic connections
- High performance 15 mm solenoid DIN 43 650 C
- 2 x 3/2 - 5/2 - 5/3 functions
- Electrical head connection by Sub-D25 or Industrial Cylindrical Connection
- Surface or DIN rail 35 mm mounting



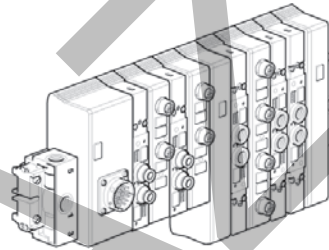
PVL-B10 configurations : Up to 16 valves

Configuration with single solenoid only



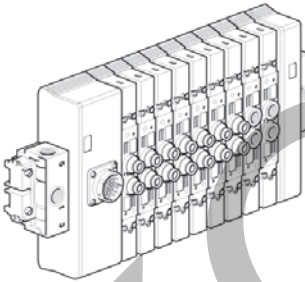
With Sub-D25 or cylindrical 19 pins connector
16 valves or

Configuration with single then double solenoid



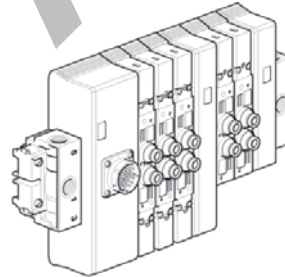
With Sub-D25 or cylindrical 19 pins connector
16 valves

Configuration with double solenoid only



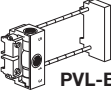
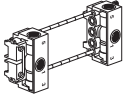
With SubD25 connector
10 valves

Configuration with double then single solenoid



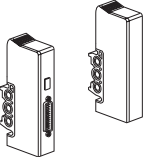
With Sub-D25 connector
16 valves

Pneumatic head and tail sets

	Description	External pilot	Mounting	Pneu.Connect.	Valve size	Weight (g)	Order code
	Single air supply	Without PX*	On DIN rail	G1/4	PVL-B10	175	PVL-B1719
			surface	G1/8	PVL-B10	200	PVL-B1818
	Dual air supply	Without PX*	On DIN rail	G1/4	PVL-B10	245	PVL-B1729
			surface	G1/8	PVL-B10	260	PVL-B1828

- Ex = to collect the exhausts of the solenoids
- * Px = auxilliary air supply for solenoids, separately from the main valves air supply
- ** To be mounted at the end of the valve island for dual air supply (without electrical connections)
- *** For dual air supply or different supplies, with no defined location in the valves island (with connections fitted)

PVL-B10 electric head and tail sets

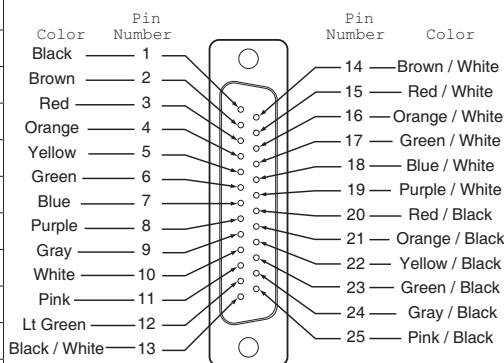
	Description	Valve configuration	Type of connector	Weight (g)	Order code
	Head and tail sets	Monostable	Sub-D25	220	PVL-B191125
			Cylindrical 19-pins	250	PVL-B191219
		Bistable	Sub-D25	220	PVL-B192125
Head and tail sets	Bistable then monostable	Sub-D25	370	PVL-B194125	
	Monostable then bistable	Sub-D25	320	PVL-B193125	
Transferring module	From bistable to monostable		220	PVL-B1940	
	From monostable to bistable		240	PVL-B1930	

25 Pin's D-Sub cable

Description	Cable length	Weight (g)	Order code
Sub-D25connector IP40 with flying leads multi-cable	3 m	380	P8LMH25M3A
	9 m	780	P8LMH25M9A
Sub-D25connector IP65 with flying leads multi-cable	9 m	790	P8LMH25MBA

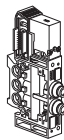
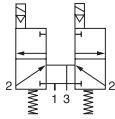

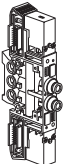


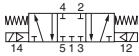
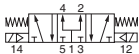
25 Pin's D-Sub cable

Wire color	25 Pin D-Sub Number	Sol. or Input Number for PVL-B10
black	1	20
brown	2	18
red	3	16
orange	4	0V Inputs
yellow	5	
green	6	14
blue	7	12
purple	8	10
gray	9	8
white	10	6
pink	11	4
light green	12	2
black/white	13	0



Wire color	25 Pin D-Sub Number	Sol. or Input Number for PVL-B10
brown / white	14	19
red / white	15	17
orange / white	16	OV Sol.
green / white	17	24V Inputs
blue / white	18	15
purple / white	19	13
red / black	20	11
orange / black	21	9
yellow / black	22	7
green / black	23	5
gray / black	24	3
pink / black	25	1






PVL-B10 valve module with 24 VDC solenoid pilot equipped

	Symbol	Description	Valve size	Connection	Weight (g)	Order code
PVL-B10 single solenoid 		Double 3/2 NC (2)	PVL-B10	Ø 6 mm	150	PVL-B10560652B
				G1/8	150	PVL-B10561852B
		5/2 single acting Spring return (2)	PVL-B10	Ø 6 mm	125	PVL-B10160652B
				G1/8	125	PVL-B10161852B
PVL-B10 double solenoids 		5/2 single acting Internal air return (2)	PVL-B10	Ø 6 mm	125	PVL-B10360652B
				G1/8	125	PVL-B10361852B
		5/2 double acting (1)	PVL-B10	Ø 6 mm	150	PVL-B10260602B
				G1/8	150	PVL-B10261802B
		5/3 all ports blocked (1)	PVL-B10	Ø 6 mm	150	PVL-B10760602B
				G1/8	150	PVL-B10761802B
	5/3 pressurized center (1)	PVL-B10	Ø 6 mm	150	PVL-B10960602B	
			G1/8	150	PVL-B10961802B	

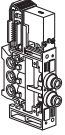
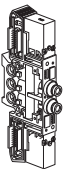
(1) With override non locking flush

(2) With override locking flush

Spare mounting and assembly kits

	Description	Valve size	Port size	Weight (g)	Order code
	Kit for sealing the inlet/exhaust common gallery including :	PVL-B		35	PVL-B1901
	- 3 common blanking plugs - 2 drilled and threaded rods - 2 screws for extended tie rod				
	Pack of 10 common blanking	PVL-B		35	PVL-B1902
	Pack of 10 stacking rods	PVL-B		35	PPR-V21
	Pack of 20 rail clip assembly	PVL-B		70	PPR-L09
	Pack of 30 O-ring seals for common inlet/exhaust ports	PVL-B		15	PPR-V23








PVL-B10 valve module without solenoid pilot

	Symbol	Description	Valve size	Connection	Weight (g)	Electronic circuit board voltage	
						For DC solenoid Order code	For AC solenoid Order code
PVL-B10 single solenoid 		Double 3/2 NC (2)	PVL-B10	Ø 6 mm	150	PVL-B105606W2	PVL-B105606W1
				G1/8	150	PVL-B105618W2	PVL-B105618W1
		5/2 single solenoid Spring return (2)	PVL-B10	Ø 6 mm	125	PVL-B101606W2	PVL-B101606W1
				G1/8	125	PVL-B101618W2	PVL-B101618W1
PVL-B10 double solenoids 		5/2 single solenoid Internal air return (2)	PVL-B10	Ø 6 mm	125	PVL-B103606W2	PVL-B103606W1
				G1/8	125	PVL-B103618W2	PVL-B103618W1
		5/2 double solenoid (1)	PVL-B10	Ø 6 mm	150	PVL-B102606W2	PVL-B102606W1
				G1/8	150	PVL-B102618W2	PVL-B102618W1
		5/3 all ports blocked (1)	PVL-B10	Ø 6 mm	150	PVL-B107606W2	PVL-B107606W1
				G1/8	150	PVL-B107618W2	PVL-B107618W1
		5/3 pressurized center (1)	PVL-B10	Ø 6 mm	150	PVL-B109606W2	PVL-B109606W1
				G1/8	150	PVL-B109618W2	PVL-B109618W1

(1) With override non locking flush

(2) With override locking flush

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

Voltage	W (g)	Manual Overrides Without Manual Override Order code	Flush (Not Extended)		Extended	
			Blue Override, non locking Order code	Yellow Override, Locking Order code	Blue Override, non locking Order code	Yellow Override, Locking Order code
12 Vdc	38	 P2E-KS32B0	P2E-KS32B1	P2E-KS32B2	P2E-KS32B3	P2E-KS32B4
24 Vdc	38	 P2E-KS32C0	P2E-KS32C1	P2E-KS32C2	P2E-KS32C3	P2E-KS32C4
48 Vdc	38	 P2E-KS32D0	P2E-KS32D1	P2E-KS32D2	P2E-KS32D3	P2E-KS32D4
24 Vac 50Hz	38	 P2E-KS31C0	P2E-KS31C1	P2E-KS31C2	P2E-KS31C3	P2E-KS31C4
48 Vac 50/60Hz	38	 P2E-KS34D0	P2E-KS34D1	P2E-KS34D2	P2E-KS34D3	P2E-KS34D4
115 Vac 50Hz	38	 P2E-KS31F0	P2E-KS31F1	P2E-KS31F2	P2E-KS31F3	P2E-KS31F4
120 Vac 60 Hz						
230 Vac 50Hz	38	 P2E-KS31J0	P2E-KS31J1	P2E-KS31J2	P2E-KS31J3	P2E-KS31J4
240 Vac 60 Hz						

Mounting screws included with the valve body

Maintenance (Solenoid pin spacing)



The electro-pneumatic PVL-B modules have been re-designed to accept both 8 mm and 9,4 mm solenoid pin spacing. If you are purchasing a solenoid for maintenance on an electro-pneumatic interface module purchased before June 2004, above solenoid P2E-KS3xxx (8 mm pin spacing) will not be compatible. Please, contact your Parker customer service.

Spare set of solenoid mounting screws

Type	Material	Ø (mm)	Length (mm)	Weight (g)	Order code
Metric	Steel, passivated	M3	26	20	P2E-KP026PM3*

* Sold by lot of 10 pieces

Materials :

Body Glass filled polyamide
 Seals Polyurethane
 Fittings Brass

Mounting :

Inline Surface mount on flat surface
 Stacking Mount on 35mm DIN rail or flat surface
 Orientation All positions

Technical characteristics

Description	1/8" Valves PVL-B11 - PVL-B12 - PVL-B10		1/4" Valves PVL-C11 - PVL-C12	
Fluid	Air or inert gas, filtered 40µ, dry or lubricated			
Working pressure	3 to 10 bar	2 to 10 bar	3 to 10 bar	2 to 10 bar
Flow rate	Nominal Qn		1100 NI/mn	
	Maximum Qmax		1800 NI/mn	
<p>— Threaded connector</p> <p>- - - Instant tube fitting</p> <p>PE = Inlet pressure</p> <p>PS = Outlet pressure</p>				
Valve port size	Instant tube fitting		8mm	
	Thread		1/4"	
Head & tail port size	1/4"		3/8"	
Operating temperature	-15°C to +60°C			
Stocking temperature	-40°C to +70°C			
Vibration resistance	2g at 2 to 150 Hz according to IEC68-2-6			
Impact resistance	15g 11ms according to IEC68-2-27			
For air operated valves	Single acting	Double acting	Single acting	Double acting
Pilot pressure (at 6 bar inlet)	3 bar	2 bar	3 bar	2 bar
Depilot pressure (at 6 bar inlet)	1 bar	-	1 bar	-
Response time (Pilot / Return)	15 / 30 ms	12 ms	26 / 60 ms	17 ms
Maximum operating frequency	5 Hz	10 Hz	5 Hz	10 Hz
For 15mm solenoid operated valves	Single acting	Double acting	Single acting	Double acting
Response time (Pilot / Return)	15 / 30 ms	12 ms	26 / 60 ms	17 ms
Maximum operating frequency	5 Hz	10 Hz	5 Hz	10 Hz
Power consumption hold	DC = 1,2 watt / AC = 1,6 VA			
Power consumption inrush	DC = 1,2 watt / AC = 3,5 VA			
Voltage tolerance	+10% / -15% of rated voltage (at 20°C)			
Standard voltage	DC Voltage			
	12 VDC / 24 VDC / 48 VDC			
AC Voltage	24 VAC / 48 VAC / 115 VAC / 230 VAC			
	Protection rating			
IP65				

Mounting on 35 mm DIN Rail

Valve stacks mount quickly and easily to 35 mm DIN rail with the use of a pneumatic head / tail set. The dual head / tail set provides input and exhaust ports at both ends and is recommended if more than 5 valves are to be operated simultaneously.

Surface mounting

For single or dual air supply

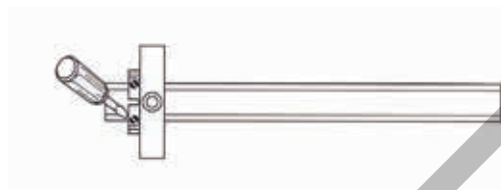
This mounting does not use DIN rail and can be directly fixed on the panel. Particularly compact and threaded G1/8", it is recommended for combinations of only a few power valves (maximum 5 valves) since the supply and exhaust common ports 1-3-5 are not G1/4" oversized.

Removal or Replacement

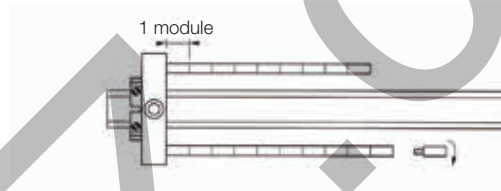
Modules are removed in reverse of the order shown at right. Before removing a module for service or replacement, loosen the pneumatic tail piece.

Mounting Procedure

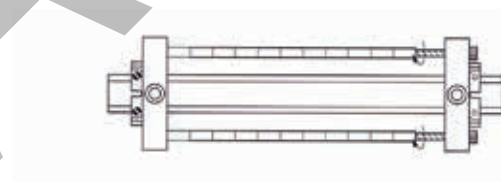
1 - Clip on and tighten the pneumatic head piece.



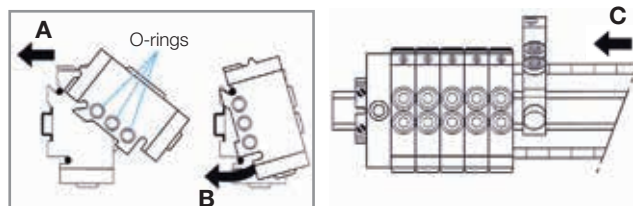
2 - Assemble the two parallel mounting rods using cross rod provided with modules.



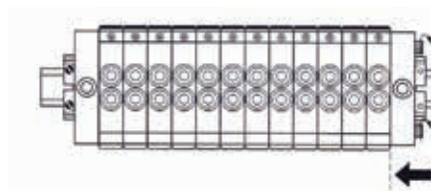
3 - Clip on the pneumatic tail piece. Start screws into mounting rod but leave loose for modules insertion.



4 - To mount valves, position upper slot then push-lock lower slot. Mount modules (valves, modules, transition pieces, etc...) and press together.



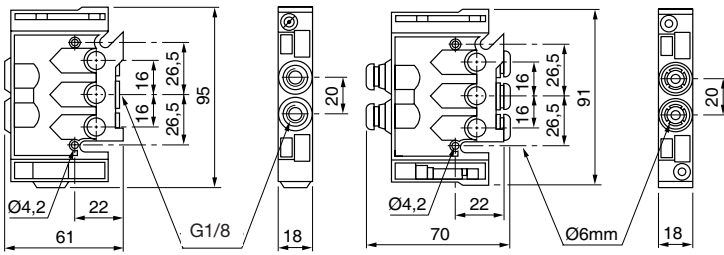
5 - Tighten the assembly.



Stand-alone power valves 1/8" without piloting accessories

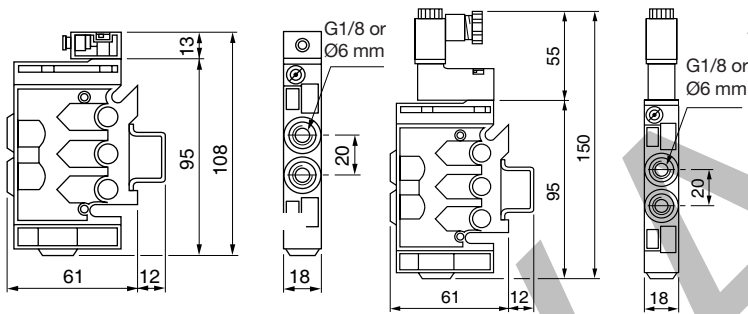
Monostable PVL-B1116••, PVL-B1136••

Bistable PVL-B1126••

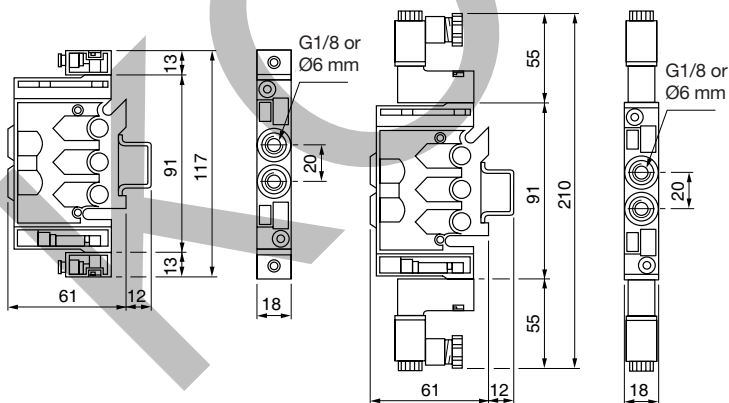


Stacking power valves 1/8" with pneumatic or electrical piloting

Monostable PVL-B1216••, PVL-B1236••



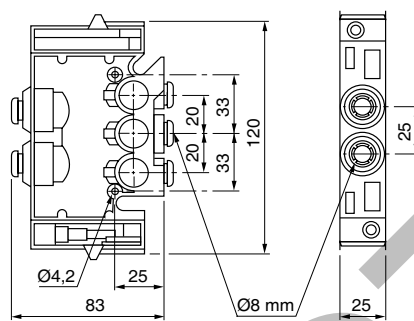
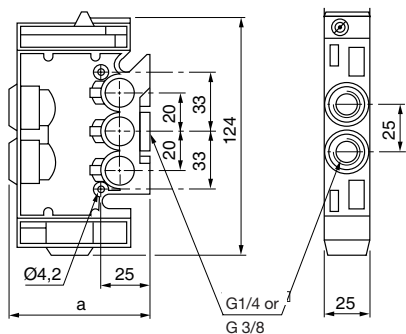
Bistable PVL-B1226••



Stand-alone power valves 1/4" without piloting accessories

Monostable PVL-C1116••, PVL-C1136••, PVL-C1114••, PVL-C1134••

Bistable PVL-C1126••, PVL-C1124••



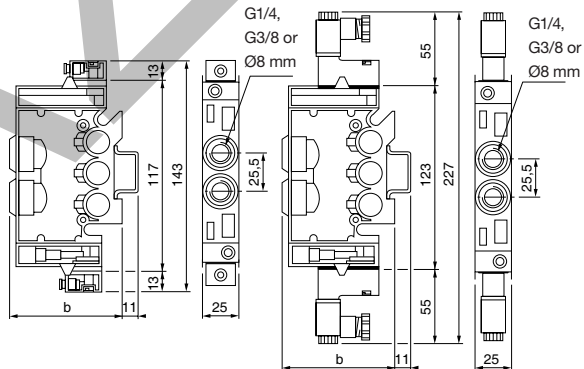
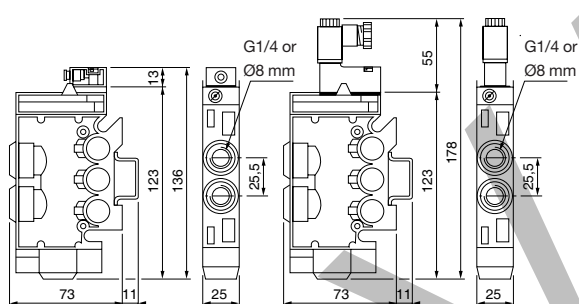
	G1/4	G3/8
a	73	88

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

With 1 W solenoid actuator and suitable pneumatic connector

Monostable PVL-C1216••, PVL-C1236••

Bistable PVL-C1226••

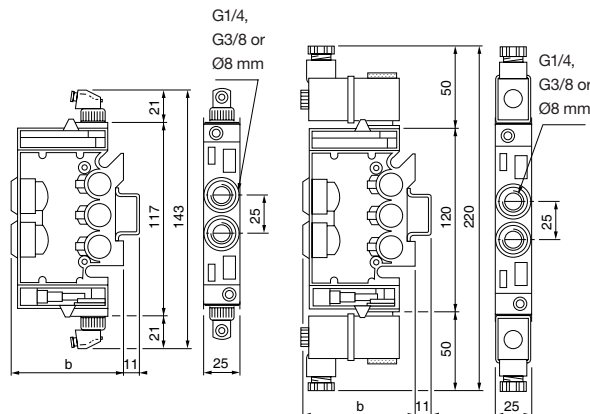
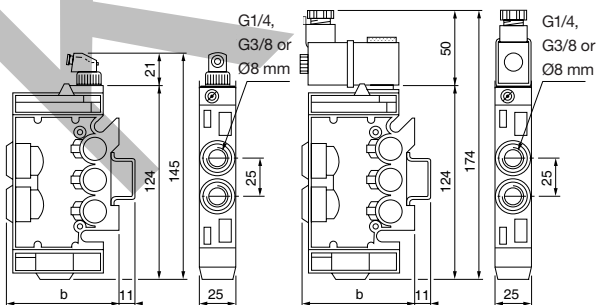


	G1/4	G3/8
b	73	77

With 5W solenoid actuator and suitable pneumatic connector

Monostable PVL-C1214••, PVL-C1234••

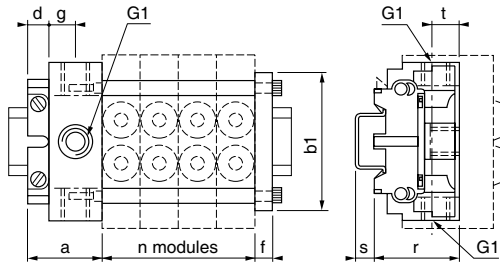
Bistable PVL-C1224••



Head and tail sets

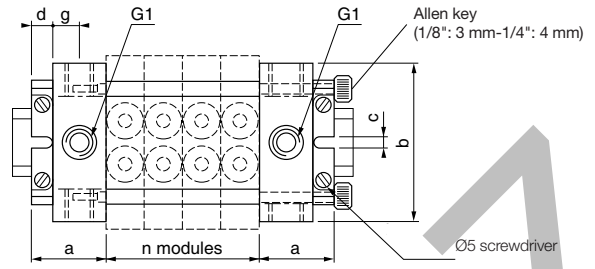
Single air supply

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



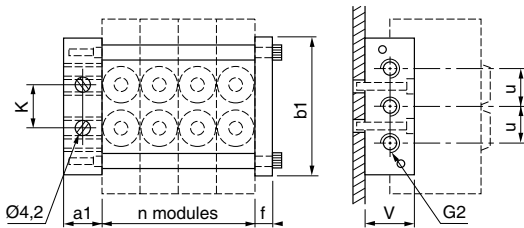
Dual air supply

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



Single air supply

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

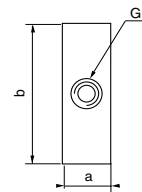
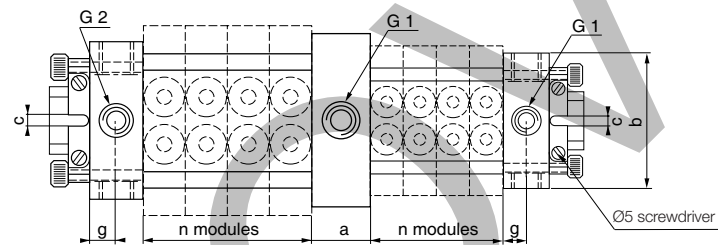


	a	a1	b	b1	c	d	f	g	G1	G2	k	r	s	t	u	v
1/8"	38	16	83	70	4,2	10	8	12	1/4"	1/8"	17,3	44	9	11	16	25
1/4"	38	20	108	100	4,2	10	8	12	3/8"	1/4"	63,5	55	9	13	20	30

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

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

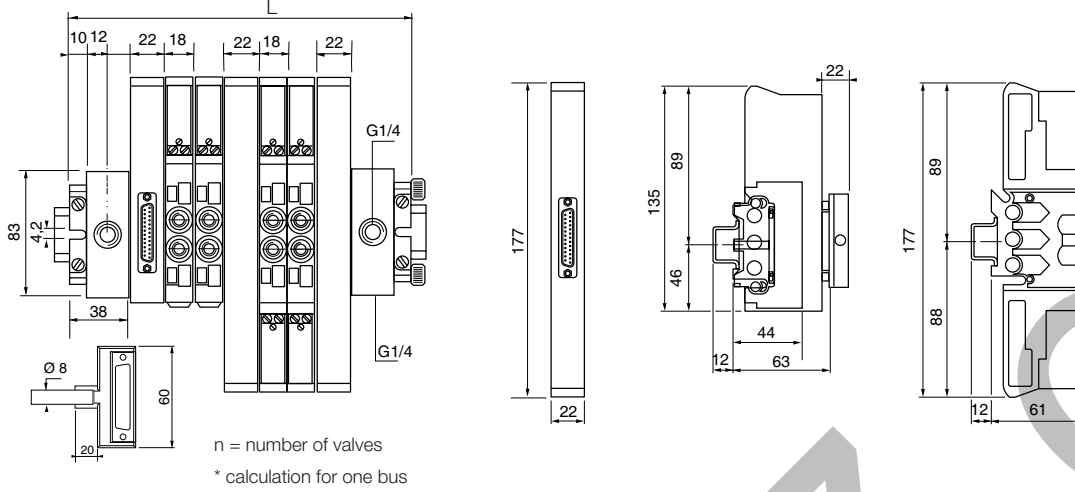
PVUL-BB118 - PVU-LCC119



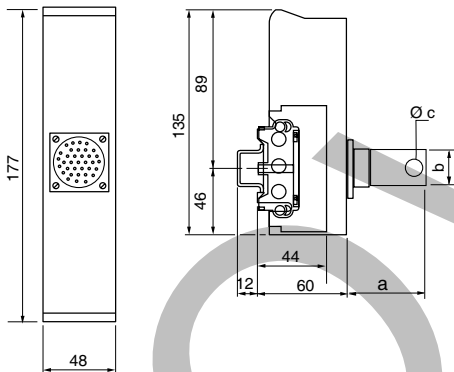
	a	b	G
1/8"	18	75	1/8"
1/4"	25	100	1/4"

Dimensions, Valvetronic PVL-B10

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



Connector 19 pins a = 90 b = 31
 Cable 19 pins a = 60 b = 31 $\varnothing c = 12$



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

IL – Israel
Tel: +39 02 45 19 21
parker.israel@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
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: +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

