



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



# PVL-B2 Inline valves

Stackable and Stand-alone

PDE2682TCUK



ENGINEERING YOUR SUCCESS.



**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).

<b>Summary</b>	<b>Page No.</b>
<b>Product Overview</b> .....	4
<b>Technical characteristics</b> .....	6
<b>PVL-B22 - Stackable Series - Order Code</b> .....	8
PVL-B22 Valve – 10 mm pilot solenoid valve .....	8
PVL-B22 Valve – 15 mm DIN form C pilot solenoid valve .....	9
Head and Tail set .....	10
Pneumatic Accessories .....	10
Spare mounting and assembly kits .....	10
Assembly instructions .....	11
<b>PVL-B21 – Stand-alone Series – Order Code</b> .....	12
PVL-B21 Valve – 10 mm pilot solenoid valve .....	12
PVL-B21 Valve – 15 mm DIN form C pilot solenoid valve .....	13
Pneumatic Accessories .....	14
10 mm pilot solenoid valve and connectors .....	14
15 mm DIN form C pilot solenoid valve and connectors .....	15
<b>Dimensions</b> .....	16

**PVL-B2 Valve Range**

18mm width

**10mm 24 Vdc Pilot Valve**

Economic electrical connection (IP40)



**15mm Pilot Valve**

Standard DIN form C electrical connection (IP65)



**10mm Pilot Valve**

**Series Overview**

**15mm Pilot Valve**



**PVL-B21 : Stand- alone Series – Traditional wiring**

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 pilot. Available with either 15 or 10 mm pilot solenoid valve traditional wiring, these Series can also be stacked and mixed into a stacking valve island Series



**PVL-B22 : Stackable Series – Traditional wiring**

The PVL-B2 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 G1/8" threaded pipe or instant tube fittings, 6 or 8 mm OD. Electrical connection is made to each solenoid using either a 15 mm - 3 pin - 8 mm spacing DIN Form C connector plug or Clip Connector. Each stack assembly can handle any combination of single or double solenoid valves



**Compatibility with original PVL-B & PVL-C Series**

Issued from the original PVL-B Series, the new PVL-B2 Series can be associated in one configuration mixing PVL-B & PVL-C Valves. For further details on the PVL-B & PVL-C Series, you can refer to the dedicated technical catalogue PDE2628TCUK



# PVL-B2

## 3 Porting options for an optimized flow

### Push-In Fittings

- 6 mm OD Qn 490 NI/mn (Qmax. 780 NI/mn)
- 8 mm OD Qn 710 NI/mn (Qmax. 1100 NI/mn)

### Threaded ports

- G1/8" Qn 640 NI/mn (Qmax. 900 NI/mn)

## 2 Electrical Pilot options

### 10 mm Pilot Solenoid Valve

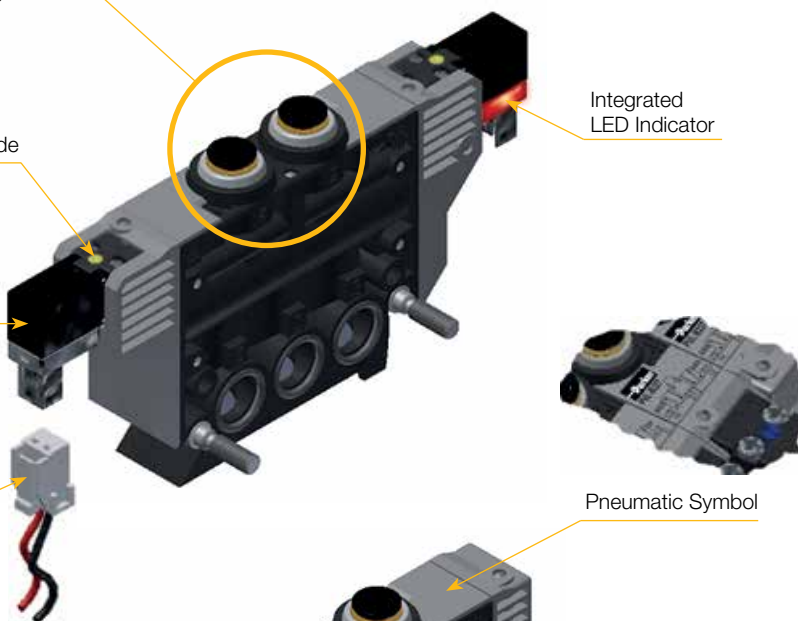
Pins-UP option



Non locking Manual Override

24 Vdc – Low power (1W)

Economic electrical connection  
by Clip Connector – IP40



Integrated  
LED Indicator



Pneumatic Symbol

### 15 mm DIN For C Pilot Solenoid Valve

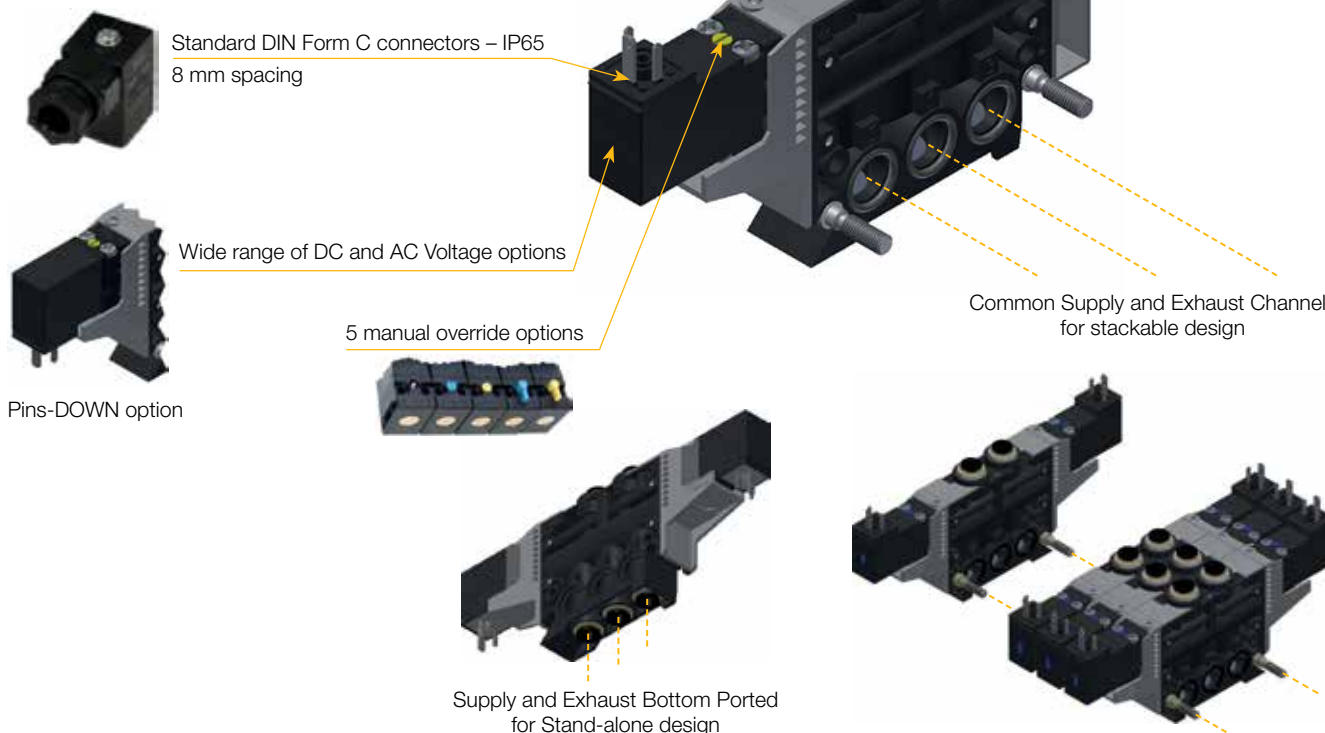
Standard DIN Form C connectors – IP65  
8 mm spacing

Wide range of DC and AC Voltage options

5 manual override options



Common Supply and Exhaust Channels  
for stackable design

Pins-DOWN option



Supply and Exhaust Bottom Ported  
for Stand-alone design

## Technical Characteristics

Description		PVL-B21 (Stand-alone) – PVL-B22 (Stackable)		
Port size	Head and Tail	Supply and Exhaust ports : 1/4"		
	Valve	6 mm push-in fitting	8 mm push-in fitting	Treaded G1/8"
Flow rate	Qn	490 NI/mn	710 NI/mn	640 NI/mn
	Qmax	780 NI/mn	1100 NI/mn	900 NI/mn
Fluid	Air or inert gas, filtered 40µ, dry or lubricated (according to ISO 8573-1 class 3.4.3.)			
Vibration resistance	2g at 2 to 150 Hz according to IEC68-2-6			
Chock resistance	15g 11ms according to IEC68-2-27			
 <p style="text-align: center;"><b>Valve Characteristics equipped with 15 mm pilot solenoid valve</b></p>				
Operating pressure	Monostable	3 to 10 bar (5/3 functions : 3 to 8 bar)		
	Bistable	2 to 10 bar		
Temperature range	Operating	-15°C to +60°C		
	Stocking	-40°C to +70°C		
Response time (@ 6 bar / 20°C)	Monostable	Spring return : Pilot : 15 ms / Return : 25 ms Air Spring return : Pilot : 20 ms / Return : 25 ms		
	Bistable	15 ms		
Max. operating frequency	Monostable	5 Hz		
	Bistable	10 Hz		
Standard voltage	DC	12 Vdc / 24 Vdc / 48 Vdc		
	AC	24 Vac / 48 Vac / 115 Vac / 230 Vac		
Power consumption	DC	1,2 W		
	AC	Hold	1,6 VA	
		Inrush	3,5 VA	
Voltage tolerance	+10% / -15% of rated voltage (at 20°C)			
Visualisation	Without (optional in connector)			
Surge protection	Without (optional in connector)			
Connection	DIN Form C - 8 mm spacing			
Dust and water protection rating	IP65 (with connector)			
 <p style="text-align: center;"><b>Valve Characteristics equipped with 10 mm pilot solenoid valve</b></p>				
Operating pressure	Monostable	3 to 8 bar		
	Bistable	2 to 8 bar		
Temperature range	Operating	-5°C to +50°C		
	Stocking	-40°C to +70°C		
Response time (@ 6 bar / 20°C)	Monostable	Spring return : Pilot : 15 ms / Return : 35 ms Air Spring return : Pilot : 15 ms / Return : 35 ms		
	Bistable	12 ms		
Max. operating frequency	Monostable	5 Hz		
	Bistable	10 Hz		
Standard voltage	DC	24 Vdc (other voltage on request)		
	AC	(on request)		
Power consumption	1 W (including LED)			
Voltage tolerance	+10% / -10% of rated voltage (at 20°C)			
Visualisation	Included on 10 mm pilot solenoid valve			
Surge protection	Included on 10 mm pilot solenoid valve			
Connection	Clip connector - Polarized			
Dust and water protection rating	IP40 (with Connector)			

**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 +30° C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/m<sup>3</sup>, which is what a standard compressor with a standard filter gives.

**ISO 8573-1 quality classes**

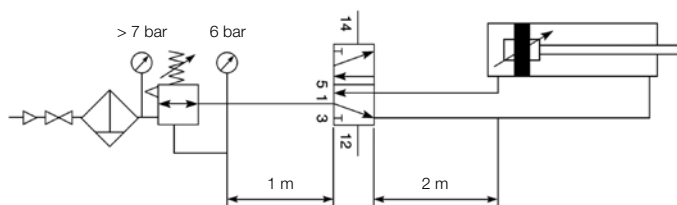
Quality class	Pollution		Water	Oil
	Particle size (µm)	max. concentration (mg/m <sup>3</sup> )	max. press. dew point (°C)	max. concentration (mg/m <sup>3</sup> )
<b>1</b>	0,1	0,1	-70	0,01
<b>2</b>	1	1	-40	0,1
<b>3</b>	5	5	-20	1,0
<b>4</b>	15	8	+3	5,0
<b>5</b>	40	10	+7	25
<b>6</b>	-	-	+10	-

**Typical cylinders speeds which can be achieved with PVL-B2 vs PVL-B 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 2 m, 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 1 m
- Pipe length between valve and cylinder : max 2 m



Cylinder bore (mm)		<20	20 to 32	40 - 50	63	80
Cylinder port size		M5	G1/8"	G1/4"	G3/8"	G3/8"
Tubing size (Int. / Ext.)		2,7 / 4	4 / 6	6 / 8	8 / 10	8 / 10
				4 / 6	6 / 8	9 / 12
Push-in fitting 6 mm OD	<b>PVL-B</b>					
	<b>PVL-B2</b>					
Push-in fitting 8 mm OD						
Threaded G1/8"	<b>PVL-B</b>					
	<b>PVL-B2</b>					

**Cylinder speed > 1 m/s**

**Cylinder speed < 0,5 m/s**

**Oversized**

**Cylinder speed < 1 m/s**

**PVL-B22 - Stackable Series**

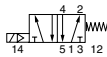
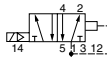
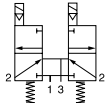
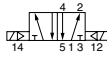
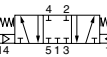
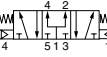
Stacking high flow valves with 10 or 15mm DIN C Pilot Solenoid Valve. Light weight plastic bodies feature push-in or threaded connection. Stacking valves feature modular inlet and exhaust facility.

- High flow – Compact size with a 18 mm width body
- Push-in fitting diameter 6mm, 8mm or threaded G1/8"
- DIN rail or surface mounting
- Economic clip connector (IP40) or DIN Form C connection (IP65)
- Light weight construction




**PVL-B22 - Valve module**

Equipped with 10mm - 24 Vdc - 1W pilot solenoid valve – LED Indicator – Pins Down\*

Symbol	Description	Pilot Man. Overr.	Connection	W (g)	Order code
	5/2 single acting spring return	Non-locking flush	Push-in 6mm	165	<b>PVL-B2213062C1</b>
			Push-in 8mm	165	<b>PVL-B2213082C1</b>
			G1/8"	165	<b>PVL-B2213182C1</b>
	5/2 single acting air spring return	Non-locking flush	Push-in 6mm	165	<b>PVL-B2233062C1</b>
			Push-in 8mm	165	<b>PVL-B2233082C1</b>
			G1/8"	165	<b>PVL-B2233182C1</b>
	Dual 3/2 N.C. spring return	Non-locking flush	Push-in 6mm	210	<b>PVL-B2253062C1</b>
			Push-in 8mm	210	<b>PVL-B2253082C1</b>
			G1/8"	210	<b>PVL-B2253182C1</b>
	5/2 Double acting	Non-locking flush	Push-in 6mm	200	<b>PVL-B2223062C1</b>
			Push-in 8mm	200	<b>PVL-B2223082C1</b>
			G1/8"	200	<b>PVL-B2223182C1</b>
	5/3 Closed center (APB)	Non-locking flush	Push-in 6mm	210	<b>PVL-B2273062C1</b>
			Push-in 8mm	210	<b>PVL-B2273082C1</b>
			G1/8"	210	<b>PVL-B2273182C1</b>
	5/3 Pressurised center	Non-locking flush	Push-in 6mm	210	<b>PVL-B2293062C1</b>
			Push-in 8mm	210	<b>PVL-B2293082C1</b>
			G1/8"	210	<b>PVL-B2293182C1</b>

\* Other electrical connection orientations or low voltages DC on demand (can be subject to quantity)


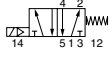
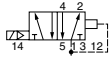
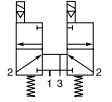


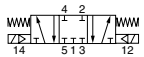
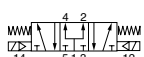
**10 mm Pilot solenoid valve electrical clip connector**

Description	Connector type	Cable length	W (g)	Order code
 <p>Clip-on connector – IP40                      Individual : Including 2 flying leads                      Multiple : Including 1 common (0 Vdc) and 1 flying lead per connector</p>	1 clip connector	1 meter	8	<b>P8LW021C</b>
	2 clip connectors	1 meter	12	<b>P8LW021C02</b>
	4 clip connectors	1 meter	20	<b>P8LW021C04</b>
	8 clip connectors	1 meter	36	<b>P8LW021C08</b>



**PVL-B22 - Valve module**

Equipped with 15mm DIN Form C (8mm spacing) - 24 Vdc - 1,2W pilot solenoid valve – Pins Up


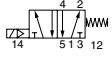
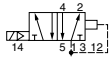
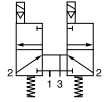


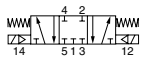
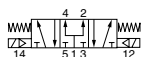
	Symbol	Description	Pilot Man. Overr.	Connection	W (g)	Order code
		5/2 single acting spring return	Locking flush	Push-in 6mm	165	<b>PVL-B2216062C2</b>
				Push-in 8mm	165	<b>PVL-B2216082C2</b>
				G1/8"	165	<b>PVL-B2216182C2</b>
		5/2 single acting air spring return	Locking flush	Push-in 6mm	165	<b>PVL-B2236062C2</b>
				Push-in 8mm	165	<b>PVL-B2236082C2</b>
				G1/8"	165	<b>PVL-B2236182C2</b>
		Dual 3/2 N.C. spring return	Locking flush	Push-in 6mm	210	<b>PVL-B2256062C2</b>
				Push-in 8mm	210	<b>PVL-B2256082C2</b>
				G1/8"	210	<b>PVL-B2256182C2</b>
		5/2 Double acting	Non-locking flush	Push-in 6mm	200	<b>PVL-B2226062C1</b>
				Push-in 8mm	200	<b>PVL-B2226082C1</b>
				G1/8"	200	<b>PVL-B2226182C1</b>
		5/3 Closed center (APB)	Locking flush	Push-in 6mm	210	<b>PVL-B2276062C2</b>
				Push-in 8mm	210	<b>PVL-B2276082C2</b>
				G1/8"	210	<b>PVL-B2276182C2</b>
		5/3 Pressurised center	Locking flush	Push-in 6mm	210	<b>PVL-B2296062C2</b>
				Push-in 8mm	210	<b>PVL-B2296082C2</b>
				G1/8"	210	<b>PVL-B2296182C2</b>

For other 15mm pilot valve options (voltage, manual override or pins orientation), valve body and 15mm pilot valve must be ordered separately (see below)

**PVL-B22 - Valve module**


(Without Pilot solenoid valve – including 2 mounting screws for Pilot solenoid valve)

For use with 15mm DIN Form C (8mm spacing) Pins UP or Pins DOWN pilot solenoid valve

	Symbol	Description	Connection	W (g)	Order code
		5/2 single acting spring return	Push-in 6mm	125	<b>PVL-B221606</b>
			Push-in 8mm	125	<b>PVL-B221608</b>
			G1/8"	125	<b>PVL-B221618</b>
		5/2 single acting air spring return	Push-in 6mm	125	<b>PVL-B223606</b>
			Push-in 8mm	125	<b>PVL-B223608</b>
			G1/8"	125	<b>PVL-B223618</b>
		Dual 3/2 N.C. spring return	Push-in 6mm	130	<b>PVL-B225606</b>
			Push-in 8mm	130	<b>PVL-B225608</b>
			G1/8"	130	<b>PVL-B225618</b>
		5/2 Double acting	Push-in 6mm	120	<b>PVL-B222606</b>
			Push-in 8mm	120	<b>PVL-B222608</b>
			G1/8"	120	<b>PVL-B222618</b>
		5/3 Closed center (APB)	Push-in 6mm	130	<b>PVL-B227606</b>
			Push-in 8mm	130	<b>PVL-B227608</b>
			G1/8"	130	<b>PVL-B227618</b>
		5/3 Pressurised center	Push-in 6mm	130	<b>PVL-B229606</b>
			Push-in 8mm	130	<b>PVL-B229608</b>
			G1/8"	130	<b>PVL-B229618</b>

15mm DIN Form C (8mm spacing) pilot solenoid valve – Pin's UP or Pin's DOWN – must be ordered separately (Refer to 15 mm pilot valve section)


**Head and Tail sets – Intermediate supply modules**

	Description	Mounting	Air supply	Port size	W (g)	Order code
	Head and tail set	On DIN rail	Left end	G1/4"	175	<b>PVL-B1719</b>
			Both left and right ends	G1/4"	195	<b>PVL-B1729</b>
	Intermediate module	On surface	Left end	G1/8"	175	<b>PVL-B1818</b>
			Both left and right ends	G1/8"	195	<b>PVL-B1828</b>
Intermediate module	On DIN rail	Up side	G1/8"	150	<b>PVU-LBB118</b>	

**Pneumatic accessories**

	Description	Size	Orientation	Material	Tube OD	W (g)	Order code
	Push-in fitting for Pressure and Exhaust ports	G1/4"	Straight	Metal	8 mm	16	<b>3101 08 13</b>
					10 mm	18	<b>3101 10 13</b>
					12 mm	27	<b>3101 12 13</b>
			Elbow	Metal/Plastic	8 mm	21	<b>3199 08 13</b>
					10 mm	28	<b>3199 10 13</b>
					12 mm	44	<b>3199 12 13</b>
	Silencer	G1/4"	Straight	Plastic		10	<b>P6M-PAB2</b>
				Sintered metal		20	<b>P6M-BAA2</b>
	Push-in fitting for PVL-B2 Valve	G1/8"	Straight	Metal	4 mm	6	<b>3101 04 10</b>
					6 mm	7	<b>3101 06 10</b>
					8 mm	11	<b>3101 08 10</b>
			Elbow prolonged	Plastic	4 mm	8	<b>3169 04 10</b>
					6 mm	11	<b>3169 06 10</b>
					8 mm	18	<b>3169 08 10</b>
			Elbow short	Plastic	4 mm	6	<b>3199 04 10</b>
					6 mm	6	<b>3199 06 10</b>
					8 mm	9	<b>3199 08 10</b>
		6 mm	Elbow prolonged	Plastic	4 mm	2	<b>3184 04 06</b>
					6 mm	4	<b>3184 06 00</b>
					8 mm	7	<b>3184 06 08</b>
			Elbow short	Plastic	4 mm	3	<b>3182 04 06</b>
					6 mm	1	<b>3182 06 00</b>
					8 mm	10	<b>3184 08 00</b>
		8 mm	Elbow prolonged	Plastic	6 mm	7	<b>3184 06 08</b>
					8 mm	10	<b>3184 08 00</b>
					6 mm	7	<b>3182 06 08</b>
			Elbow short	Plastic	6 mm	7	<b>3182 06 08</b>
					8 mm	10	<b>3182 08 00</b>

**Spare mounting and assembly kits**

	Description	W (g)	Order code
	Sealing kit for supply/exhaust common channels Included : <ul style="list-style-type: none"> <li>• 3 common blanking plugs</li> <li>• 2 drilled and threaded rods</li> <li>• 2 screws for extended tie rod</li> </ul>	35	<b>PVL-B1901</b>
	Pack of 10 common blanking	35	<b>PVL-B1902</b>
	Pack of 10 stacking rods	35	<b>PPR-V21</b>
	Pack of 20 rail clip assembly	70	<b>PPR-L09</b>
	Pack of 30 O-ring seals for supply/exhaust common channels	15	<b>PPR-V23</b>

**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.



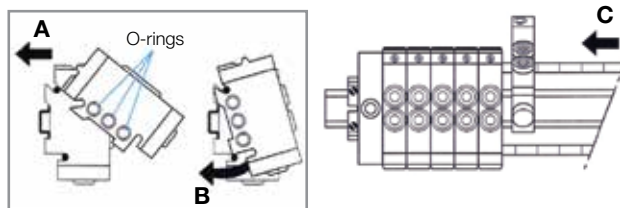
2 - Assemble the two parallel mounting rods using cross rod provided with modules.



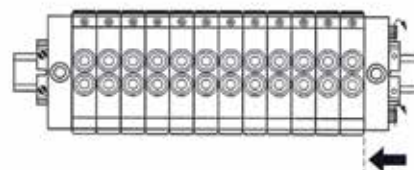
3 - Clip on the pneumatic tail piece. Start screws into mounting rod but leave loose for modules insertion.



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.



**PVL-B21 - Stand-alone Series**

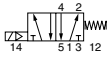
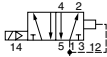
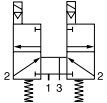
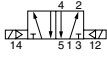
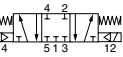
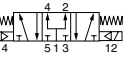
Stand-alone high flow valves with 10 or 15mm DIN C Pilot Solenoid Valve. Light weight plastic bodies feature push-in or threaded connection.

- High flow – Compact size with a 18 mm width body
- Push-in fitting diameter 6mm, 8mm or threaded G1/8"
- Economic clip connector (IP40) or DIN Form C connection (IP65)
- Light weight construction
- Compatible with stackable version



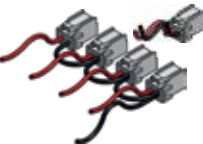
**PVL-B21 - Valve module**

Equipped with 10mm - 24 Vdc - 1W pilot solenoid valve – LED Indicator – Pins Down\*

Symbol	Description	Pilot Man. Overr.	Connection	W (g)	Order code
	5/2 single acting spring return	Non-locking flush	Push-in 6mm	165	<b>PVL-B2113062C1</b>
			Push-in 8mm	165	<b>PVL-B2113082C1</b>
			G1/8"	165	<b>PVL-B2113182C1</b>
	5/2 single acting air spring return	Non-locking flush	Push-in 6mm	165	<b>PVL-B2133062C1</b>
			Push-in 8mm	165	<b>PVL-B2133082C1</b>
			G1/8"	165	<b>PVL-B2133182C1</b>
	Dual 3/2 N.C. spring return	Non-locking flush	Push-in 6mm	210	<b>PVL-B2153062C1</b>
			Push-in 8mm	210	<b>PVL-B2153082C1</b>
			G1/8"	210	<b>PVL-B2153182C1</b>
	5/2 Double acting	Non-locking flush	Push-in 6mm	200	<b>PVL-B2123062C1</b>
			Push-in 8mm	200	<b>PVL-B2123082C1</b>
			G1/8"	200	<b>PVL-B2123182C1</b>
	5/3 Closed center (APB)	Non-locking flush	Push-in 6mm	210	<b>PVL-B2173062C1</b>
			Push-in 8mm	210	<b>PVL-B2173082C1</b>
			G1/8"	210	<b>PVL-B2173182C1</b>
	5/3 Pressurised center	Non-locking flush	Push-in 6mm	210	<b>PVL-B2193062C1</b>
			Push-in 8mm	210	<b>PVL-B2193082C1</b>
			G1/8"	210	<b>PVL-B2193182C1</b>


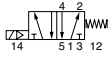
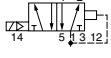
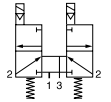


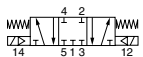
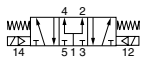
\* Other electrical connection orientations or low voltages DC on demand (can be subject to quantity)

**10 mm Pilot solenoid valve electrical clip connector**

Description	Connector type	Cable length	W (g)	Order code	
	Clip-on connector – IP40	1 clip connector	1 meter	8	<b>P8LW021C</b>
	Individual : Including 2 flying leads	2 clip connectors	1 meter	12	<b>P8LW021C02</b>
	Multiple : Including 1 common (0 Vdc) and 1 flying lead per connector	4 clip connectors	1 meter	20	<b>P8LW021C04</b>
		8 clip connectors	1 meter	36	<b>P8LW021C08</b>

**PVL-B21 - Valve module**

Equipped with 15mm DIN Form C (8mm spacing) - 24 Vdc - 1,2W pilot solenoid valve – Pins Up



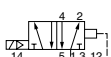
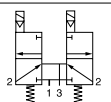

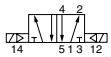
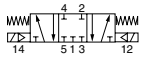
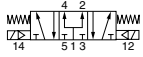
	Symbol	Description	Pilot Man. Overr.	Connection	W (g)	Order code
		5/2 single acting spring return	Locking flush	Push-in 6mm	165	<b>PVL-B2116062C2</b>
				Push-in 8mm	165	<b>PVL-B2116082C2</b>
				G1/8"	165	<b>PVL-B2116182C2</b>
		5/2 single acting air spring return	Locking flush	Push-in 6mm	165	<b>PVL-B2136062C2</b>
				Push-in 8mm	165	<b>PVL-B2136082C2</b>
				G1/8"	165	<b>PVL-B2136182C2</b>
		Dual 3/2 N.C. spring return	Locking flush	Push-in 6mm	210	<b>PVL-B2156062C2</b>
				Push-in 8mm	210	<b>PVL-B2156082C2</b>
				G1/8"	210	<b>PVL-B2156182C2</b>
		5/2 Double acting	Non-locking flush	Push-in 6mm	200	<b>PVL-B2126062C1</b>
				Push-in 8mm	200	<b>PVL-B2126082C1</b>
				G1/8"	200	<b>PVL-B2126182C1</b>
		5/3 Closed center (APB)	Locking flush	Push-in 6mm	210	<b>PVL-B2176062C2</b>
				Push-in 8mm	210	<b>PVL-B2176082C2</b>
				G1/8"	210	<b>PVL-B2176182C2</b>
		5/3 Pressurised center	Locking flush	Push-in 6mm	210	<b>PVL-B2196062C2</b>
				Push-in 8mm	210	<b>PVL-B2196082C2</b>
				G1/8"	210	<b>PVL-B2196182C2</b>

For other 15mm pilot valve options (voltage, manual override or pins orientation), valve body and 15mm pilot valve must be ordered separately (see below)

**PVL-B21 - Valve module**




(Without Pilot solenoid valve – including 2 mounting screws for Pilot solenoid valve)

For use with 15mm DIN Form C (8mm spacing) Pins UP or Pins DOWN pilot solenoid valve

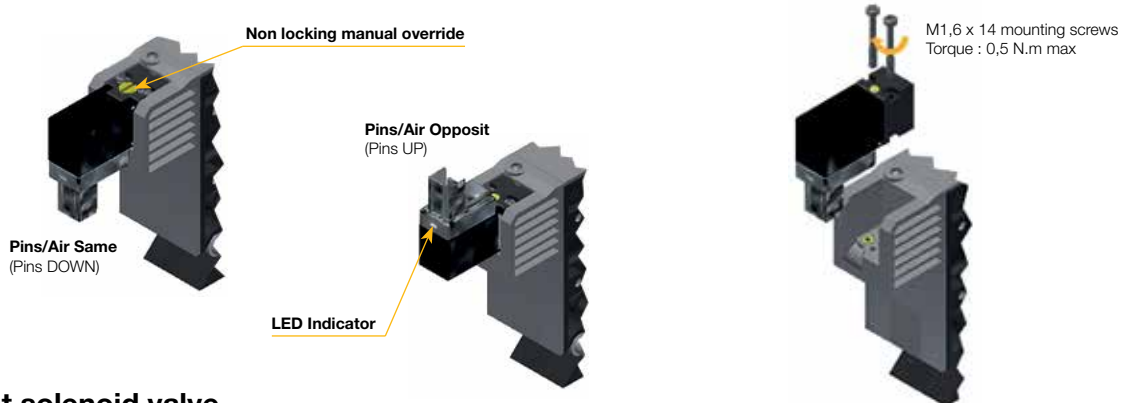
	Symbol	Description	Connection	W (g)	Order code	
		5/2 single acting spring return	Push-in 6mm	125	<b>PVL-B211606</b>	
			Push-in 8mm	125	<b>PVL-B211608</b>	
			G1/8"	125	<b>PVL-B211618</b>	
		5/2 single acting air spring return	Locking flush	Push-in 6mm	125	<b>PVL-B213606</b>
				Push-in 8mm	125	<b>PVL-B213608</b>
				G1/8"	125	<b>PVL-B213618</b>
		Dual 3/2 N.C. spring return	Locking flush	Push-in 6mm	130	<b>PVL-B215606</b>
				Push-in 8mm	130	<b>PVL-B215608</b>
				G1/8"	130	<b>PVL-B215618</b>
		5/2 Double acting	Push-in 6mm	120	<b>PVL-B212606</b>	
			Push-in 8mm	120	<b>PVL-B212608</b>	
			G1/8"	120	<b>PVL-B212618</b>	
		5/3 Closed center (APB)	Locking flush	Push-in 6mm	130	<b>PVL-B217606</b>
				Push-in 8mm	130	<b>PVL-B217608</b>
				G1/8"	130	<b>PVL-B217618</b>
		5/3 Pressurised center	Locking flush	Push-in 6mm	130	<b>PVL-B219606</b>
				Push-in 8mm	130	<b>PVL-B219608</b>
				G1/8"	130	<b>PVL-B219618</b>

15mm DIN Form C (8mm spacing) pilot solenoid valve – Pin's UP or Pin's DOWN – must be ordered separately (Refer to 15 mm pilot valve section)


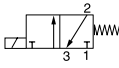
**Pneumatic accessories**

	Description	Size	Orientation	Material	Tube OD	W (g)	Order code			
 <p>3101 ...</p>	Push-in fitting for PVL-B2 Valve	G1/8"	Straight	Metal	4 mm	6	<b>3101 04 10</b>			
					6 mm	7	<b>3101 06 10</b>			
					8 mm	11	<b>3101 08 10</b>			
 <p>3169 ... 3199 ...</p>			Elbow prolonged	Plastic	4 mm	8	<b>3169 04 10</b>			
					6 mm	11	<b>3169 06 10</b>			
					8 mm	18	<b>3169 08 10</b>			
					6 mm	Elbow short	Plastic	4 mm	6	<b>3199 04 10</b>
								6 mm	6	<b>3199 06 10</b>
								8 mm	9	<b>3199 08 10</b>
 <p>3184 ... 3182 ...</p>			Elbow prolonged	Plastic	4 mm	2	<b>3184 04 06</b>			
					6 mm	Elbow short	Plastic	4 mm	3	<b>3182 04 06</b>
								6 mm	1	<b>3182 06 00</b>
					8 mm	Elbow prolonged	Plastic	6 mm	7	<b>3184 06 08</b>
								8 mm	10	<b>3184 08 00</b>
								Elbow short	Plastic	6 mm
8 mm	10	<b>3182 08 00</b>								

**PVL-B2 – 10 mm pilot solenoid valve options**




**10 mm pilot solenoid valve**

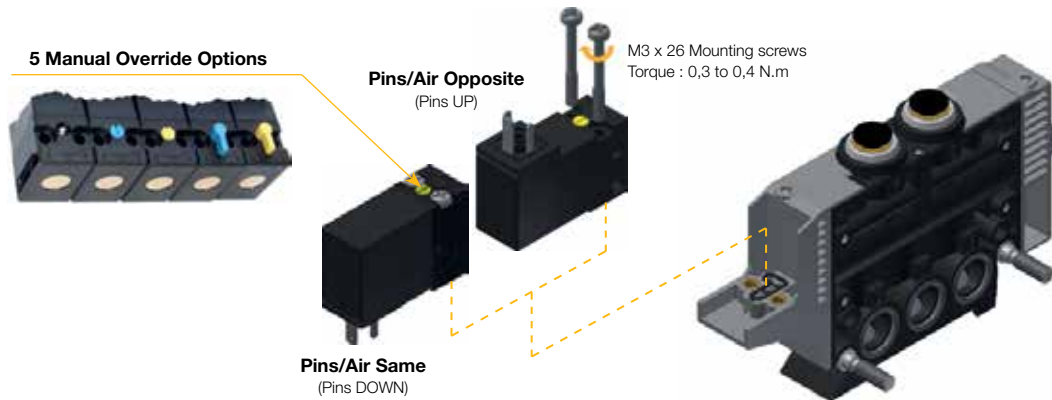
	Voltage	Electrical connection orientation	Manual Override	W (g)	Order code
 	24 Vdc	PINS /AIR same (PINS down)	Non-locking flush	20	<b>P2D-KS32C1</b>
		PINS/AIR opposit (PINS UP)	Non-locking flush	20	<b>P2D-KV32C1</b>

Other electrical connection orientations or low voltages DC on demand (can be subject to quantity)

**10 mm Pilot solenoid valve electrical clip connector**

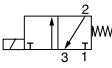

Description	Connector type	Cable length	W (g)	Order code
 <p>Clip-on connector – IP40 Individual : Including 2 flying leads Multiple : Including 1 common (0 Vdc) and 1 flying lead per connector</p>	1 clip connector	1 meter	8	<b>P8LW021C</b>
	2 clip connectors	1 meter	12	<b>P8LW021C02</b>
	4 clip connectors	1 meter	20	<b>P8LW021C04</b>
	8 clip connectors	1 meter	36	<b>P8LW021C08</b>

**PVL-B2 – 15 mm pilot solenoid valve options**



**15mm DIN Form C (8mm spacing) pilot solenoid valve**

For use with 15mm pilot solenoid valve PVL-B2 body

	Manual Overrides		Flush (Not Extended)			Extended	
	Voltage	W (g)	Without Manual Override Order code	Blue Override, non locking Order code	Yellow Override, Locking Order code	Blue Override, non locking Order code	Yellow Override, Locking Order code
 <b>Pins/Air Opposite (Pins UP)</b>	12 Vdc	38	<b>P2E-KV32B0</b>	<b>P2E-KV32B1</b>	<b>P2E-KV32B2</b>	<b>P2E-KV32B3</b>	<b>P2E-KV32B4</b>
	24 Vdc	38	<b>P2E-KV32C0</b>	<b>P2E-KV32C1</b>	<b>P2E-KV32C2</b>	<b>P2E-KV32C3</b>	<b>P2E-KV32C4</b>
	48 Vdc	38	<b>P2E-KV32D0</b>	<b>P2E-KV32D1</b>	<b>P2E-KV32D2</b>	<b>P2E-KV32D3</b>	<b>P2E-KV32D4</b>
	24 Vac 50Hz	38	<b>P2E-KV31C0</b>	<b>P2E-KV31C1</b>	<b>P2E-KV31C2</b>	<b>P2E-KV31C3</b>	<b>P2E-KV31C4</b>
	48 Vac 50/60Hz	38	<b>P2E-KV34D0</b>	<b>P2E-KV34D1</b>	<b>P2E-KV34D2</b>	<b>P2E-KV34D3</b>	<b>P2E-KV34D4</b>
 <b>Pins/Air Same (Pins DOWN)</b>	115 Vac 50Hz	38	<b>P2E-KV31F0</b>	<b>P2E-KV31F1</b>	<b>P2E-KV31F2</b>	<b>P2E-KV31F3</b>	<b>P2E-KV31F4</b>
	120 Vac 60 Hz	38					
	230 Vac 50Hz	38	<b>P2E-KV31J0</b>	<b>P2E-KV31J1</b>	<b>P2E-KV31J2</b>	<b>P2E-KV31J3</b>	<b>P2E-KV31J4</b>
	240 Vac 60 Hz	38					
	12 Vdc	38	<b>P2E-KS32B0</b>	<b>P2E-KS32B1</b>	<b>P2E-KS32B2</b>	<b>P2E-KS32B3</b>	<b>P2E-KS32B4</b>
	24 Vdc	38	<b>P2E-KS32C0</b>	<b>P2E-KS32C1</b>	<b>P2E-KS32C2</b>	<b>P2E-KS32C3</b>	<b>P2E-KS32C4</b>
	48 Vdc	38	<b>P2E-KS32D0</b>	<b>P2E-KS32D1</b>	<b>P2E-KS32D2</b>	<b>P2E-KS32D3</b>	<b>P2E-KS32D4</b>
	24 Vac 50Hz	38	<b>P2E-KS31C0</b>	<b>P2E-KS31C1</b>	<b>P2E-KS31C2</b>	<b>P2E-KS31C3</b>	<b>P2E-KS31C4</b>
	48 Vac 50/60Hz	38	<b>P2E-KS34D0</b>	<b>P2E-KS34D1</b>	<b>P2E-KS34D2</b>	<b>P2E-KS34D3</b>	<b>P2E-KS34D4</b>
	115 Vac 50Hz	38	<b>P2E-KS31F0</b>	<b>P2E-KS31F1</b>	<b>P2E-KS31F2</b>	<b>P2E-KS31F3</b>	<b>P2E-KS31F4</b>
120 Vac 60 Hz	38						
230 Vac 50Hz	38	<b>P2E-KS31J0</b>	<b>P2E-KS31J1</b>	<b>P2E-KS31J2</b>	<b>P2E-KS31J3</b>	<b>P2E-KS31J4</b>	
240 Vac 60 Hz	38						


Mounting screws included with the valve body

**Pilot solenoid valve mounting screw**

Description	Size	Material	W (g)	Order code
 Kit of 10 mounting screws	M23 x 26	Steel	20	<b>P2E-KP026PM3</b>


**Cable plugs 15 mm - IP65**

(8 mm pin spacing)

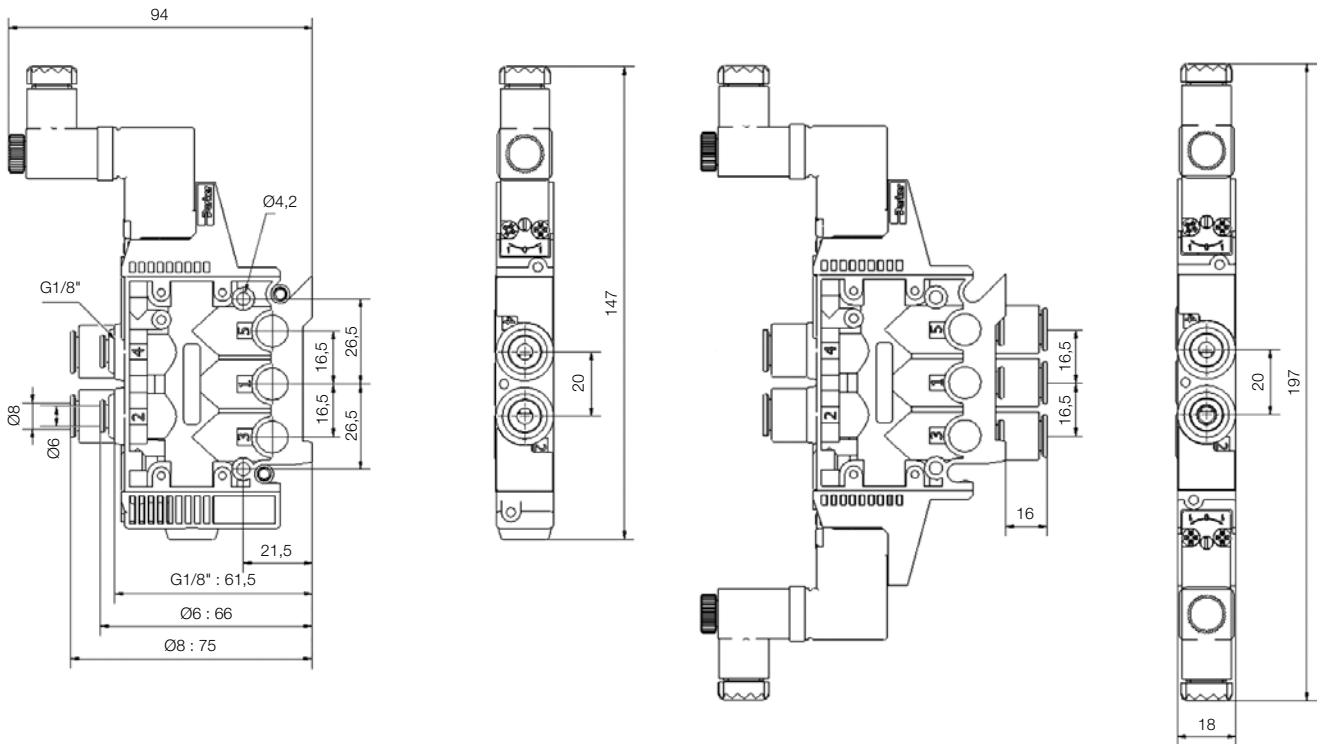
Description	Electrical protection	Cable length	W (g)	Order code
 Standard screw	No protection	No cable	11	<b>P8C-D</b>
		2 meter	97	<b>P8L-C2</b>
		5 meter	228	<b>P8L-C5</b>
	LED + Protection 24 VDC	No cable	11	<b>P8C-D26C</b>
	LED + Protection 24 VDC/AC	2 meter	97	<b>P8L-C226C</b>
		5 meter	229	<b>P8L-C526C</b>

**Suppressor and LED indicators**

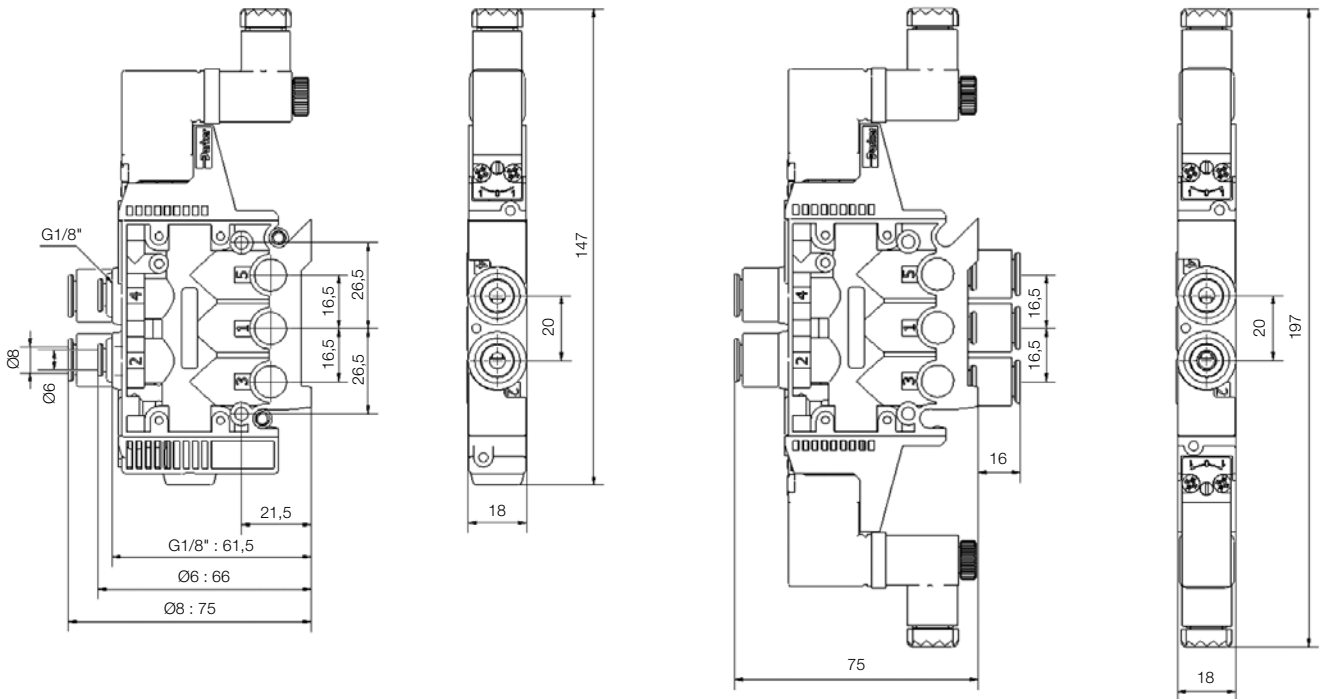
For 8 mm solenoid pin spacing - For mounting between the solenoid valve and the cable plug

Symbol	Description	Electrical Voltage	W (g)	Order code
	LED indicator	24 VAC/DC	3	<b>P8V-CR26C</b>
		115 VAC 50 Hz - 120 VAC 60 Hz	3	<b>P8V-CR24F</b>
		230 VAC 50 Hz - 240 VAC 60 Hz	3	<b>P8V-CR24J</b>

**PVL-B21 (Stand-alone) & PVL-B22 (Stackable) – with 15 mm pilot solenoid valve – Pins UP**

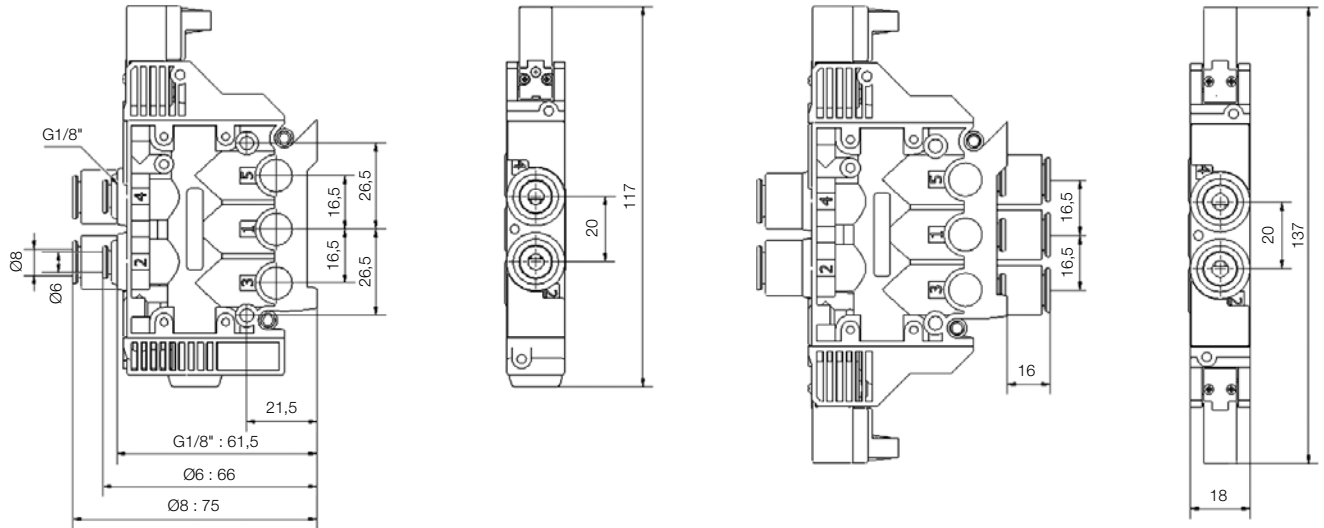


**PVL-B21 (Stand-alone) & PVL-B22 (Stackable) – with 15 mm pilot solenoid valve – Pins DOWN**

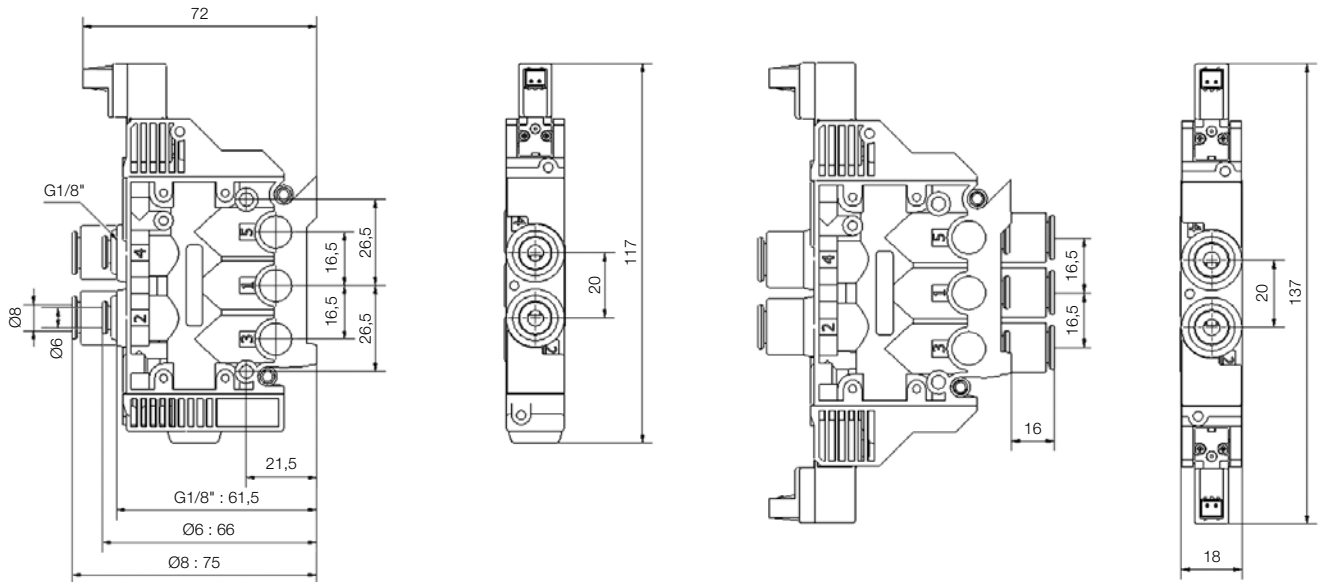




**PVL-B21 (Stand-alone) & PVL-B22 (Stackable) – with 10 mm pilot solenoid valve – Pins DOWN**

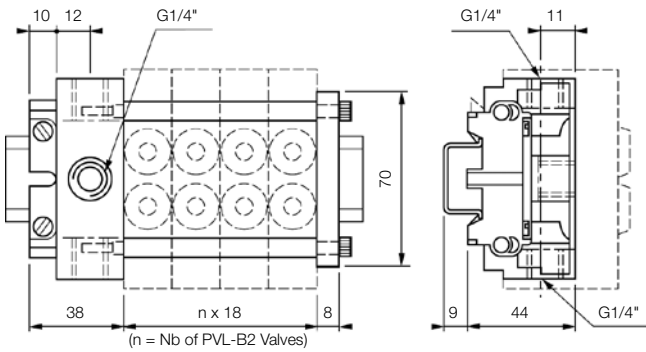


**PVL-B21 (Stand-alone) & PVL-B22 (Stackable) – with 10 mm pilot solenoid valve – Pins UP**

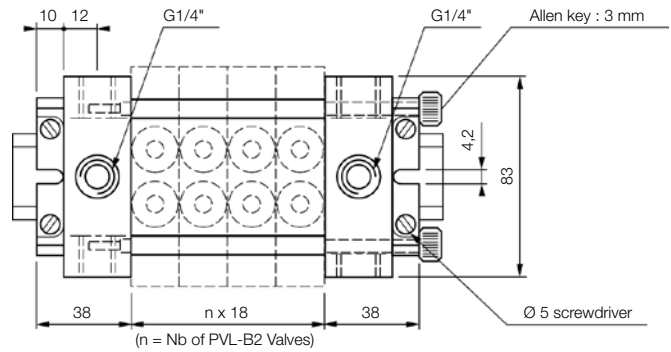


PVL-B22 (Stackable) – Head and Tail sets – DIN rail mounting

Single air supply – PVL-B1719

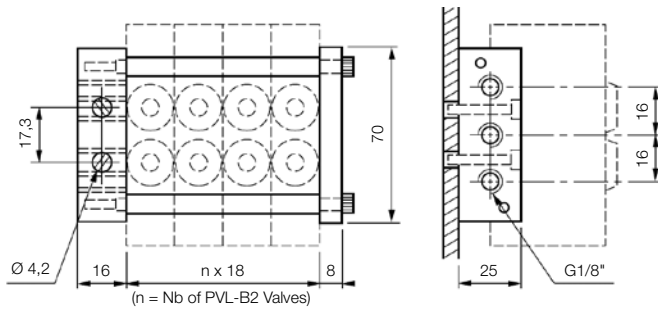


Dual air supply – PVL-B1729

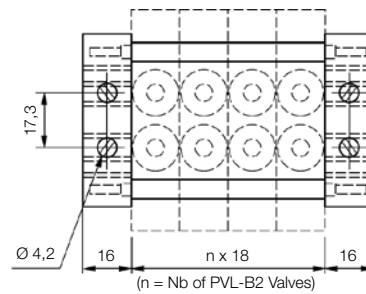


PVL-B22 (Stackable) – Head and Tail sets – Surface mounting

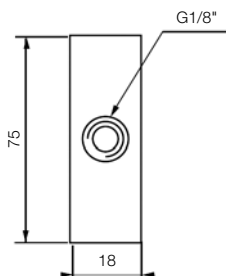
Single air supply – PVL-B1818



Dual air supply – PVL-B1828



PVL-B22 (Stackable) – Intermediate supply module – PVU-LBB118





# 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

