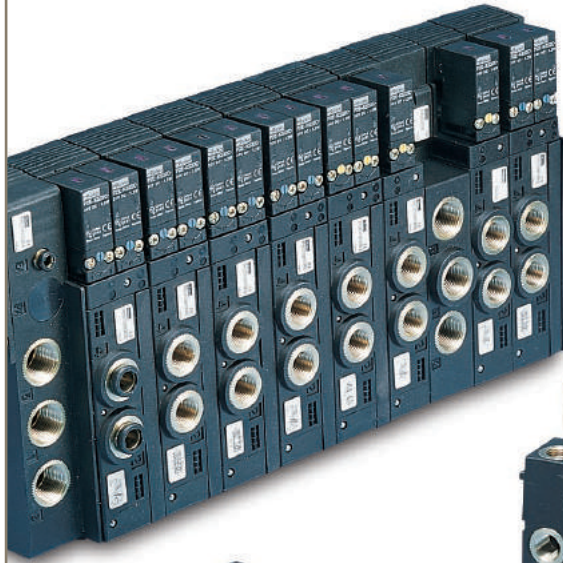
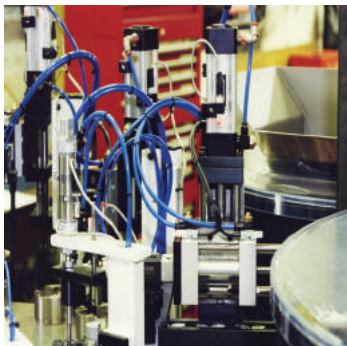


aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



PVL-B & PVL-C Inline valves

Stackable, Stand-alone and Valvetronic

PDE2628TCUK September 2009



ENGINEERING YOUR SUCCESS.

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PVL-B / -C Configurations - Order codes 9 - 12

Connecting leads 13 - 14


Technical characteristics 15

Mounting 16


Dimensions 17 - 22



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

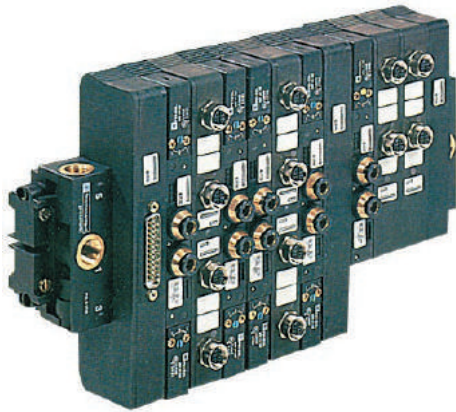
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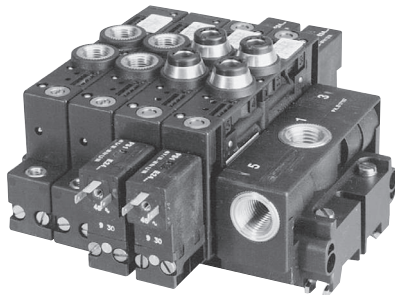
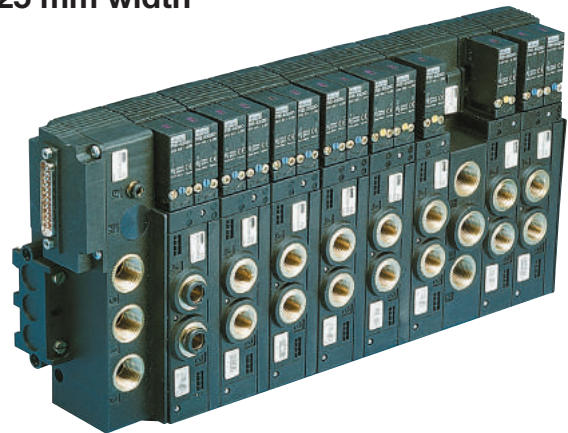
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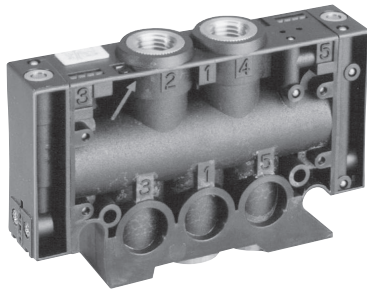
PVL-B size
18 mm width



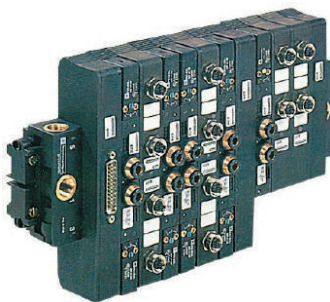
PVL-C size
25 mm width



PVL -B12 / -C12



PVL -B11 / -C11



PVL -B10 / -C10

Stackable - Traditional wiring 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 commons 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 utilizing 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.

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 XXXX 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.

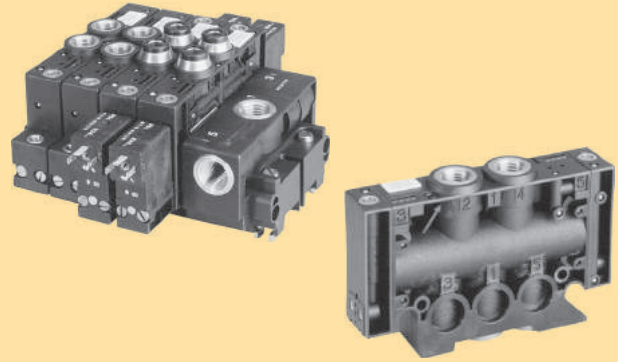
Stackable - Valvetronic Series

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 it is to control. The address of each solenoid valve and each feedback or output connection is based on its physical position in the stack. Electrical Inputs and Outputs can also be added into the Valvetronic device both PVL6B and PVL-C valve sizes can be combined in one stack using a transition kit.

PVL-B & PVL-C Inline Valves

Stacking high flow valves with air pilot or solenoid actuation. Lightweight 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

Symbol	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	175	PVL-B1818
			PVL-C	G1/4	195	PVL-C1819
		Dual air supply head and tail set	PVL-B	G1/8	200	PVL-B1828
			PVL-C	G1/4	225	PVL-C1829
	On DIN rail	Intermediate supply module	PVL-B	G1/8	260	PVU-LBB118
			PVL-C	G1/4	280	PVU-LBB119
	On DIN rail	Kit for stacking PVL-B & PVL-C	PVL-C/B	G1/4-G1/8	640	PVU-LCB119
		Including : - 1 transfert / take-off module - 1 PVL-C head module - 1 PVL-B end plate				

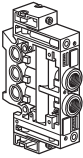
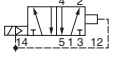
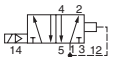

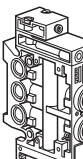
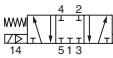


Spare mounting and assembly kits

Symbol	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
				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		-	PPR-L09
	Pack of 30 O-ring seals for common inlet/exhaust ports	PVL-B		-	PPR-V23
		PVL-C		-	PPR-V24

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

Valve module without actuator

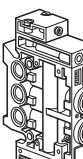
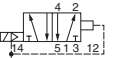
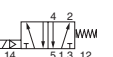
For use with air-pilot connector or 1,2 W / 1,6 VA solenoid valve

Symbol	Description	Valve type	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	125
			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	120
			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	130
			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-B	Push-in Ø 6 mm	130
			G 1/8	130	PVL-B128618
	PVL-C	Push-in Ø 8 mm	250	PVL-C128608	
		G 1/4	250	PVL-C128619	
		G 3/8	250	PVL-C128613	
		Double 3/2 Normally closed (NC)	PVL-B	Push-in Ø 6 mm	130
			G 1/8	130	PVL-B125618

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

Valve module without actuator

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

Symbol	Description	Valve type	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
	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	250	PVL-C122408
			G 1/4	250	PVL-C122419

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

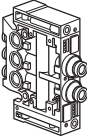

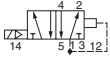
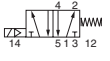
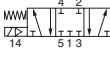
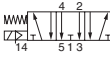
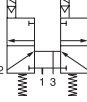
The above valve operator can be either :

- 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 solenoid (PVL-B or C) or 6 W / 8,5 VA (PVL-C).

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

Valve module without actuator

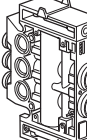
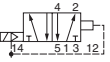
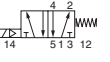
For use with air-pilot connector or 1,2 W / 1,6 VA solenoid valve

Symbol	Description	Valve type	Connection	Weight (g)	Order code
		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	
		PVL-B	Push-in Ø 6 mm	125	PVL-B113606
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	
		PVL-B	Push-in Ø 6 mm	120	PVL-B112606
	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	
		PVL-B	Push-in Ø 6 mm	130	PVL-B117606
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	
		PVL-B	Push-in Ø 6 mm	130	PVL-B118606
	G 1/8		130	PVL-B118618	
	PVL-C	Push-in Ø 8 mm	250	PVL-C118608	
		G 1/4	250	PVL-C118619	
		G 3/8	250	PVL-C118613	
		PVL-B	Push-in Ø 6 mm	130	PVL-B115606
G 1/8			130	PVL-B115618	

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

Valve module without actuator

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

Symbol	Description	Valve type	Connection	Weight (g)	Order code
		PVL-C	Push-in Ø 8 mm	250	PVL-C111408
			G 1/4	250	PVL-C111419
	PVL-C	Push-in Ø 8 mm	250	PVL-C113408	
		G 1/4	250	PVL-C113419	
		PVL-C	Push-in Ø 8 mm	250	PVL-C112408
			G 1/4	250	PVL-C112419

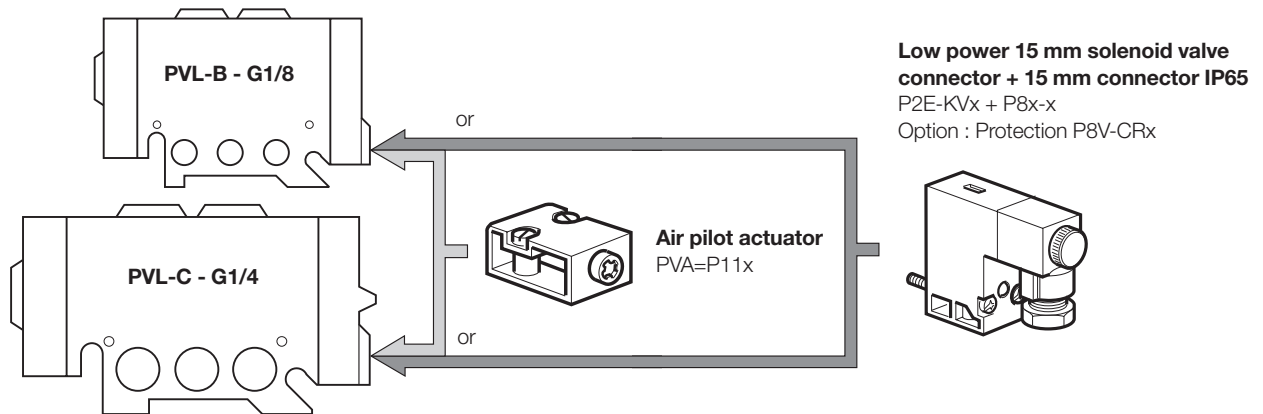
Each valve module is supplied with two tie rods for use in the "stacking" system.

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 solenoid (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 1,2 W / 1,6 VA solenoid valve



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

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

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

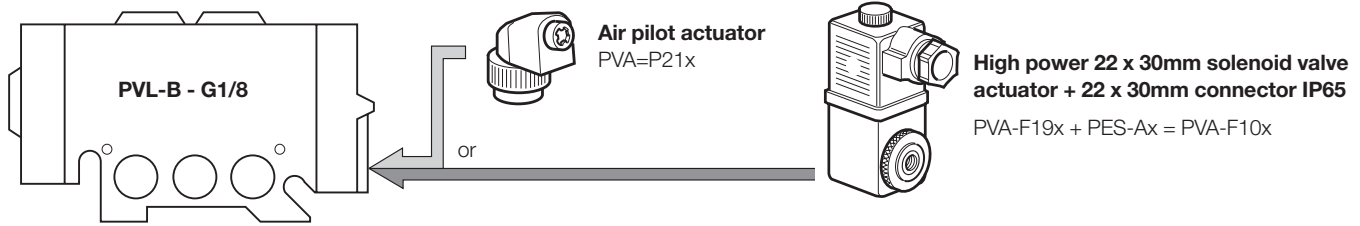
Description	Voltage	Weight (g)	Manual override		
			Spring return Order code	Indexing Order code	
	3/2 normally closed	12 VDC	38	P2EKV32B1	P2E-KV32B2
		24 VDC	38	P2EKV32C1	P2E-KV32C2
		48 VDC	38	P2EKV32D1	P2E-KV32D2
		24 V 50/60Hz	38	P2EKV31C1	P2E-KV31C2
		48 V 50/60Hz	38	P2EKV34D1	P2E-KV34D2
		115 V 50Hz, 120 V 60Hz	38	P2EKV31F1	P2E-KV31F2
		230 V 50Hz, 240 V 60Hz	38	P2EKV31J1	P2E-KV31J2
Pack of 20 seals	All solenoids				PPR-V20

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

Description	Electrical protection	Cable length	Weight (g)	Order code
	No protection	No cable	XXXX	P8C-C
	LED + Protection 24 VDC	No cable	XXXX	P8C-C26C
	No protection	No cable	XXXX	P8C-D
		2 m cable	XXXX	P8L-C2
		5 m cable	XXXX	P8L-C5
	LED + Protection 24 VDC	No cable	XXXX	P8C-D26C
	LED + Protection 24 VDC/AC	2 m cable	XXXX	P8L-C226C
		5 m cable	XXXX	P8L-C526C

Modular piloting system

PVL-C valve module for air-pilot connector or 6 W / 8,5 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	XXXX	PVA-P121
		Push-in Ø 4 mm - Swivel	XXXX	PVA-P122
		Threaded M5	XXXX	PVA-P125
	Pack of 50 O-ring seals			PPR-V25

Solenoids 22 X 30 6 W / 8,5 VA

Without manual override

	Description	Voltage	Weight (g)	Order code
	Solenoid valve 22 x 30mm Without cable connector	12 VDC	XX	P2E-KV32B2
		24 VDC	XX	P2E-KV32C2
		48 VDC	XX	P2E-KV32D2
		24 V 50/60Hz	XX	P2E-KV31C2
		48 V 50/60Hz	XX	P2E-KV34D2
		115 V 50Hz, 120 V 60Hz	XX	P2E-KV31F2
		230 V 50Hz, 240 V 60Hz	XX	P2E-KV31J2

Electrical connector 22 x 30 mm

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

Solenoids 22 x 30 - 6 W / 8,5 VA - Equipped with cable connector

(Without manual override)

	Description	Voltage	Without cable Order code	Cable length 2 meters Order code	5 meters Order code
	Solenoid valve 22 x 30mm With cable connector	24 VDC	PVA-F102B	PVA-F102B0	PVA-F102B1
		48 VDC	PVA-F102E	PVA-F102E0	PVA-F102E1
		24 V 50/60Hz	PVA-F101B	PVA-F101B0	PVA-F101B1
		48 V 50/60Hz	PVA-F101E	PVA-F101E0	PVA-F101E1
		115 V 50Hz, 120 V 60Hz	PVA-F101F	PVA-F101F0	PVA-F101F1
		230 V 50Hz, 240 V 60Hz	PVA-F101M	PVA-F101M0	PVA-F101M1
		255 V 50Hz	PVA-F101U	PVA-F101U0	PVA-F101U1

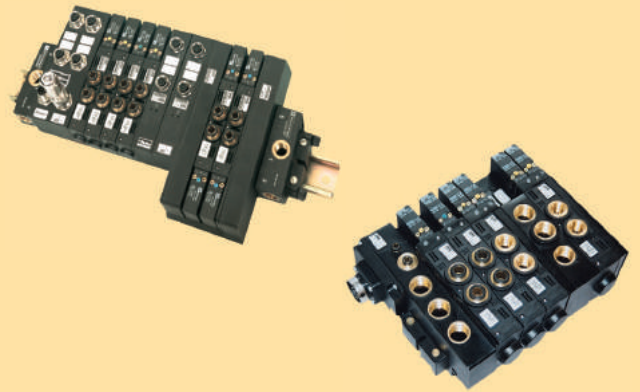
*** Version available for use in explosive atmospheres :**

- 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)

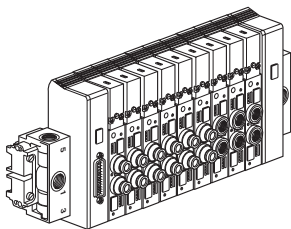
PVL-B & PVL-C Inline Valves

- 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 D 25 or Industrial Cylindrical Connection
- Surface or DIN rail 35 mm mounting



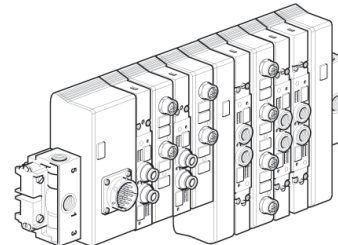
PVL-B10 configurations : Up to 16 valves or 32 I/O maximum

Configuration with single solenoid only



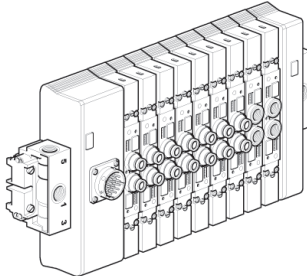
With SubD25 or cylindrical
19 pins connector
16 valves or 16 I/O

Configuration with single + double solenoid



With SubD25 or cylindrical
19 pins connector
16 valves or 16 I/O

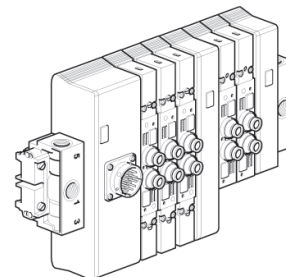
Configuration with double solenoid only



With SubD25 connector
10 valves or 20 I/O

With cylindrical 35 pins
connector
16 valves or 32 I/O

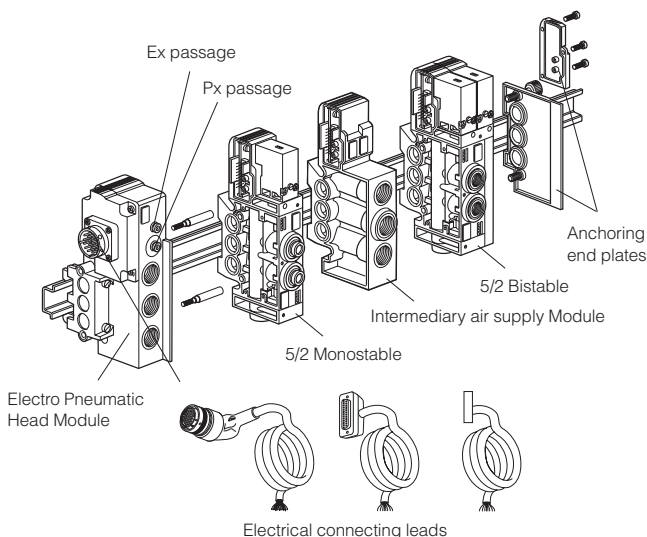
Configuration with double + single solenoid



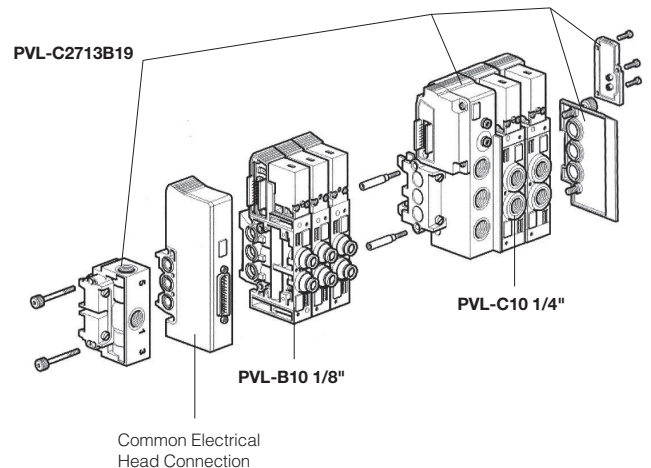
With SubD25 connector
16 valves or 21 I/O

With cylindrical 35 pins
connector
16 valves or 32 I/O

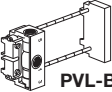
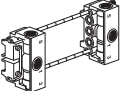
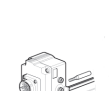
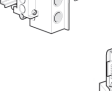
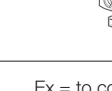
PVL-C10 configurations : Up to 16 valves



PVL-B10 / PVL-C10 association



Pneumatic head and tail sets

	Description	External pilot	Mounting	Pneu.Connect.	Valve size	Weight (g)	Order code
	Single 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
	HE10 with cable gland	Without PX*		G3/8	PVL-C10	XXX	PVLC1713H20A
		With PX*		G3/8	PVL-C10	XXX	PVLC2713H20A
	25 Pins D-Sub	Without PX*		G3/8	PVL-C10	XXX	PVLC1713D25A
		With PX*		G3/8	PVL-C10	XXX	PVLC2713D25A
	19 Pins cylindrical connection	Without PX*		G3/8	PVL-C10	XXX	PVLC1713C19A
		With PX*		G3/8	PVL-C10	XXX	PVLC2713C19A
	Tall air feed module			G3/8	PVL-C10	XXX	PVU-LC213**
	Intermediary air supply module			G3/8	PVL-C10	XXX	PVU-LC213E***
	Combination kit for PVL-B10 / PVL-C10	Without PX*		G1/4 & G3/8	PVL-B10 / C10	450	PVL-C1713B19
		With PX*		G1/4 & G3/8	PVL-B10 / C10	460	PVL-C2713B19

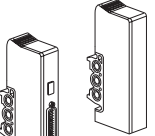
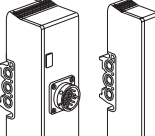
Ex = to collect the exhausts of the solenoids

* Px = auxilliary air supply for solenoids, separately from the main valves air supply

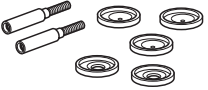




** To be mounted at the end of the valve island for dual air supply (without electrical connections)

*** For dual air supply or different supplies, with no defined location in the valves island (with connections fitted)

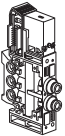
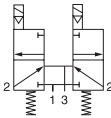
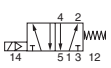
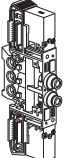
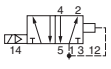
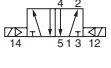
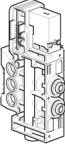
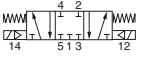
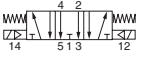
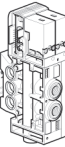
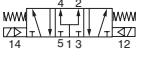
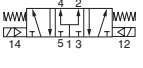
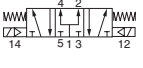
Electric head and tail sets

	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
			Cylindrical 35-pins	250	PVL-B192235
	Head and tail sets	Bistable then monostable	Sub-D25	370	PVL-B194125
			Cylindrical 35-pins	420	PVL-B194235
		Monostable then bistable	Sub-D25	320	PVL-B193125
			Cylindrical 19-pins	350	PVL-B193219
Transferring module	Bistable then monostable		220	PVL-B1940	
	Monostable then bistable		240	PVL-B1930	

Spare mounting and assembly kits

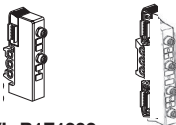
	Description	Valve size	Port size	Weight (g)	Order code
	Kit for sealing the inlet/exhaust common gallery including : - 3 common blanking plugs - 2 drilled and threaded rods - 2 screws for extended tie rod	PVL-B		35	PVL-B1901
		PVL-C		65	PVL-C1901
	Pack of 10 common blanking	PVL-B		35	PVL-B1902
		PVL-C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

PVL-B10 & PVL-C10 valve module with 24 V DC solenoid pilot equipped

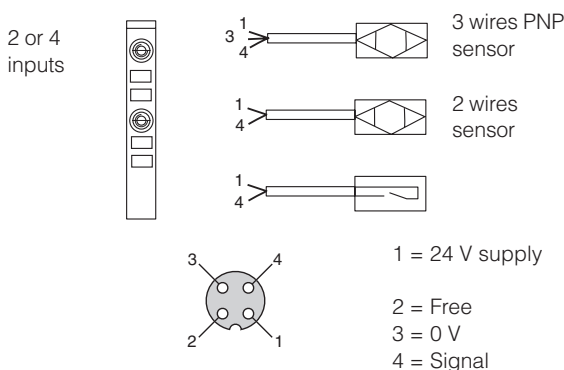
	Symbol	Description	Valve type	Connection	Weight (g)	Order code
PVL-B10 single solenoid 		Double 3/2 NC	PVL-B10	Ø 6 mm	150	PVL-B10560652B
			PVL-C10	G1/8	150	PVL-B10561852B
		5/2 single solenoid Spring return	PVL-B10	Ø 6 mm	125	PVL-B10160652B
			PVL-C10	G1/8	125	PVL-B10161852B
PVL-B10 double solenoid 		5/2 single solenoid Internal air return	PVL-B10	Ø 6 mm	125	PVL-B10360652B
			PVL-C10	G1/8	125	PVL-B10361852B
		5/2 double solenoids	PVL-B10	Ø 6 mm	150	PVL-B10260602B
			PVL-C10	G1/4	150	PVL-B10261802B
PVL-C10 single solenoid 		5/3 all ports blocked	PVL-B10	Ø 6 mm	150	PVL-B10760602B
			PVL-C10	G1/8	150	PVL-B10761802B
		5/3 vented center	PVL-B10	Ø 6 mm	150	PVL-B10860602B
			PVL-C10	G1/8	150	PVL-B10861802B
PVL-C10 double solenoid 		5/3 pressurized center	PVL-B10	Ø 6 mm	150	PVL-B10960602B
			PVL-C10	G1/8	150	PVL-B10961802B
		5/3 vented center	PVL-B10	Ø 6 mm	150	PVL-B10860602B
			PVL-C10	G1/4	150	PVL-B10861902B
	5/3 pressurized center	PVL-B10	Ø 6 mm	150	PVL-B10960602B	
		PVL-C10	G1/4	150	PVL-B10961902B	

(1) With override non locking flush
 (2) With override locking flush

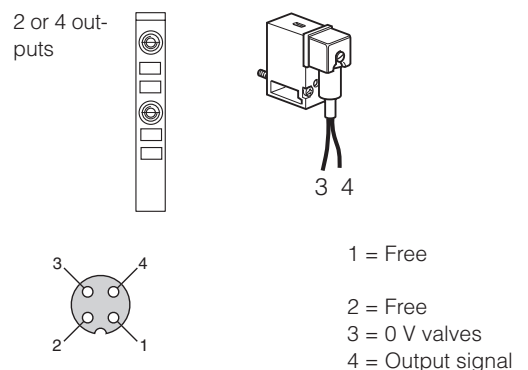
PVL-B10 Electrical Input/Output module

	Description	Type	Connection	Weight kg	Order code
	Input module	PVL-B monostable	2 Inputs	0,180	PVL-B1E1302
		PVL-B bistable	4 Inputs	0,240	PVL-B1E2304
	Output module	PVL-B monostable	2 Outputs	0,180	PVL-B1S1302
		PVL-B bistable	4 Outputs	0,240	PVL-B1S2304

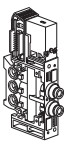
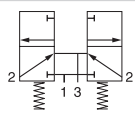
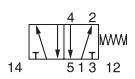
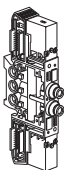
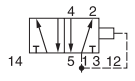
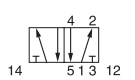
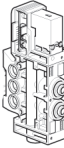
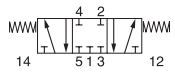
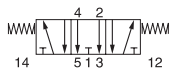
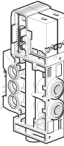
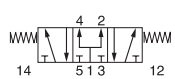
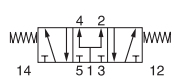
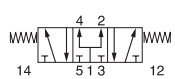
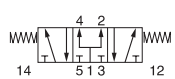
External input module connection



External output module connection



PVL-B10 & PVL-C10 valve module without solenoid pilot

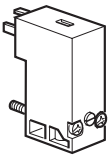
	Symbol	Description	Valve type	Connection	Weight (g)	Electronic circuit board voltage	
						For DC solenoid	For AC solenoid
						Order code	Order code
PVL-B10 single solenoid 		Double 3/2 NC	PVL-B10	Ø 6 mm	150	PVL-B105606W2	PVL-B105606W1
				G1/8	150	PVL-B105618W2	PVL-B105618W1
		5/2 single solenoid Spring return	PVL-B10	Ø 6 mm	125	PVL-B101606W2	PVL-B101606W1
				G1/8	125	PVL-B101618W2	PVL-B101618W1
PVL-B10 double solenoid 		5/2 single solenoid Internal air return	PVL-B10	Ø 6 mm	125	PVL-B103606W2	PVL-B103606W1
				G1/8	125	PVL-B103618W2	PVL-B103618W1
		5/2 double solenoid	PVL-B10	Ø 6 mm	150	PVL-B102606W2	PVL-B102606W1
				G1/8	150	PVL-B102618W2	PVL-B102618W1
PVL-C10 single solenoid 		5/3 all ports blocked	PVL-C10	Ø 8 mm	150	PVL-C102608W2	PVL-C102608W1
				G1/4	150	PVL-C102619W2	PVL-C102619W1
		5/3 vented center	PVL-B10	Ø 6 mm	150	PVL-B108606W2	PVL-B108606W1
				G1/8	150	PVL-B108618W2	PVL-B108618W1
PVL-C10 double solenoid 		5/3 pressurized center	PVL-B10	Ø 6 mm	150	PVL-B109606W2	PVL-B109606W1
				G1/8	150	PVL-B109618W2	PVL-B109618W1
		5/3 pressurized center	PVL-C10	Ø 8 mm	150	PVL-C108608W2	PVL-C108608W1
				G1/4	150	PVL-C108619W2	PVL-C108619W1
						PVL-C109608W2	PVL-C109608W1
						PVL-C109619W2	PVL-C109619W1

(1) With override non locking flush

(2) With override locking flush

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

Manual override type:

	Voltage	Weight (g)	Without	Non locking Flush	Locking Flush
			Order code	Order code	Order code
 P2E-KS32C1	12 VDC	38	P2E-KS32B0	P2E-KS32B1	P2E-KS32B2
	24 VDC	38	P2E-KS32C0	P2E-KS32C1	P2E-KS32C2
	48 VDC	38	P2E-KS32D0	P2E-KS32D1	P2E-KS32D2
	24 V 50Hz	38	P2E-KS31C0	P2E-KS31C1	P2E-KS31C2
	48 V 50/60Hz	38	P2E-KS34D0	P2E-KS34D1	P2E-KS34D2
	115 VAC 50Hz/	38	P2E-KS31F0	P2E-KS31F1	P2E-KS31F2
	220 VAC 50Hz/	38	P2E-KS31J0	P2E-KS31J1	P2E-KS31J2

Maintenance (Solenoid pin spacing)



The electro-pneumatic PVL-B & PVL-C modules have been re-designed to accept both 8mm and 9,4mm 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 (8mm pin spacing) will not be compatible. Please, contact your Parker customer service.

Spare set of solenoid mounting screws

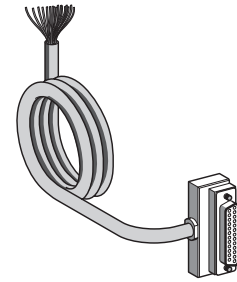
Type	Material	Ø mm	Length (mm)	Weight (g)	Order code
Metric	Steel, passivated	M3	26	20	P2E-KP026PM3*
Self tapping	Steel, passivated	Ø 3 mm	25	20	P2E-KP025PS3*

Correspondence table between screws and valves series

Valvetronic series	Description	Mounting screw length	Order code (Mounting Screw Kit)
PVL-B10	Valvetronic 1/8"	26 mm	P2E-KP026PM3
PVL-C10	Valvetronic 1/4"	26 mm	P2E-KP026PM3

PVL-B & PVL-C Inline Valves

- Leads and connector (plugged in)
- Protection level IP 65
- Suitable for use across the Valvetronic Modular program
- HE 10 for budget cable gland version
- Sub D 25 for compact version
- Cylindrical 19 or 35 pins for heavy duty industrial



General characteristics

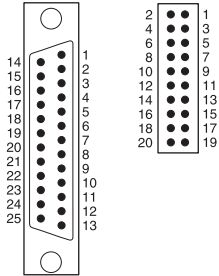
Working temperature	-15 °C to 60 °C
Working current;	
AWG20	5 A
AWG24	2,5 A
AWG28	1 A

Type	Connection to valve island	Connection to the control system	Lenght m	Weight kg	Order code
	HE10/HE14 female	20 coloured wires AWG 24	5,0	0,510	P8L-MH20A5
			9,9	1,010	P8L-MH20A9
	HE10 20 pins for direct plug-in connection on PLC AWG24	1,5	0,160	P8L-MH20A1BH20A	
		3,0	0,310	P8L-MH20A3BH20A	
		5,0	0,510	P8L-MH20A5BH20A	
			9,9	1,010	P8L-MH20A9BH20A

Type	Connection to valve island	Connection to the control system	Lenght m	Weight kg	Order code
	Leads for head module with Sub D 25 female	20 coloured wires AWG 24	5,0	0,540	P8L-MD25A5B
			9,9	1,040	P8L-MD25A9B
			15,0	1,540	P8L-MD25ACB
	HE10 20 pins for direct plug-in connection on PLC	25 wires roles flat ribbon AWG 28	5,0	0,540	P8L-MD25A5
			9,9	0,540	P8L-MD25A9
1,5			0,160	P8L-MD25A1BH20A	
			3,0	0,310	P8L-MD25A3BH20A
			5,0	0,510	P8L-MD25A5BH20A
			9,9	1,010	P8L-MD25A9BH20A

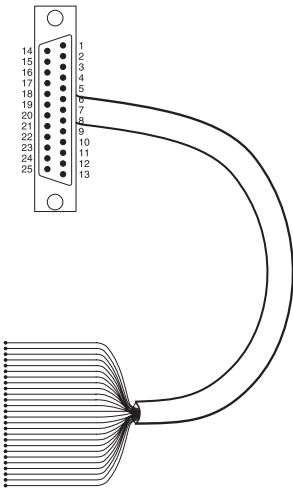
Type	Connection to valve island	Connection to the control system	Lenght m	Weight kg	Order code
Cylindric connector		19 pins max. Ø cable = 16 mm	To be wired	0,060	P8C-MC19A
		35 pins max. Ø cable = 22 mm	To be wired	0,090	P8C-MC35A
Leads with cylindric Connection		19 coloured wires AWG 20 (16 outputs) max. Ø cable = 12 mm	5,0		P8L-MC19A5
			9,9		P8L-MC19A9
Connection		35 coloured wires AWG 20 (32 outputs) max. Ø cable = 15 mm	5,0		P8L-MC35A5
			9,9		P8L-MC35A9

Wiring connection for cable gland and Sub D 25 with AWG 24 wire



Colour	Input or Output N°	Sub D 25 Pin Nr	HE10 Pin Nr	Colour	Input or Output Nr	Sub D 25 Pin Nr	HE10 Pin Nr
Green	0	13	1	Orange	13	19	14
Tranparent	1	25	2	White	14	6	15
Dark blue	2	12	3	Grey	15	18	16
Light blue	3	24	4	Red/Black	Free	5	17
Pink	4	11	5	Red	24 V	17	17
Purple	5	23	6	Brown	0 V	4	18
Dark green/Black	6	10	7	Black	0 V	16	18
Yellow	7	22	8		16	3	-
Light green/Black	8	9	9		17	15	-
Yellow/black	9	21	10		18	2	-
Blue/Black	10	8	11		19	14	-
White/Black	11	20	12	*	20	1	-
Khaki	12	7	13	* Red wire for flat ribbon cable			

Wiring connection for Sub D 25 with rolled flat ribbon AWG 28 wires



Colour	Nr of Ribbon wires after red wire	Sub D Pin Nr	Input/ Output Nr	Colour	Nr of Ribbon wires after red wire	Sub D Pin Nr	Input/ Output Nr
Grey	24	13	0	Grey	11	19	13
Grey	23	25	1	Grey	10	6	14
Grey	22	12	2	Grey	9	18	15
Grey	21	24	3	Grey	8	5	Free
Grey	20	11	4	Grey	7	17	24 V
Grey	19	23	5	Grey	6	4	0 V Inputs
Grey	18	10	6	Grey	5	16	0V Valves
Grey	17	22	7	Grey	4	3	16
Grey	16	9	8	Grey	3	15	17
Grey	15	21	9	Grey	2	2	18
Grey	14	8	10	Grey	1	14	19
Grey	13	20	11	Red	0 (Red wire)	1	20
Grey	12	7	12				

Wiring connection for cylindrical 19 or 35 pins with AWG 20 wires

I/O Nr	Colour	Connector 19 Pin Nr	Connector 35 Pin Nr	I/O Nr	Colour	Connector 19 Pin Nr	Connector 35 Pin Nr	I/O Nr	Colour	Connector 19 Pin Nr	Connector 35 Pin Nr
0	Pink-Brown	A	A	9	Violet	K	K	18	White-Black	-	V
1	White-Green	B	B	10	Blue	L	L	19	Brown-Blue	-	W
2	White-Yellow	C	C	11	Pink	M	M	20	Brown-Red	-	X
3	White-Grey	D	D	12	Grey	N	N	21	Brown-Black	-	Y
4	White-Pink	E	E	13	Yellow	P	P	22	Grey-Green	-	Z
5	Brown-Green	F	F	14	White	R	R	23	Pink-Green	-	a
6	Red-Blue	G	G	15	Green	S	S	24	Green-Blue	-	b
7	Grey-Pink	H	H	16	White-Blue	-	T	25	Green-Red	-	c
8	Yellow-Brown	J	J	17	White-Red	-	U	26	Green-Black	-	d
								27	Yellow-Grey	-	e
								28	Yellow-Pink	-	f
								29	Yellow-Blue	-	g
								30	Yellow-Red	-	h
								31	Yellow-Black	-	i
								0 V valves	Black	T	j
								0 V inputs	Brown	U	k
								24 V inputs	Red	V	m

Materials:

Body Glass filled polyamide
 Seals Polyurethane
 Fittings Brass

Materials:

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 - PVL-C10	
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	540 NI/mn		1100 NI/mn	
	Maximum Qmax	900 NI/mn		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	6mm		8mm	
	Thread	1/8"		1/4"	
Head & tail port size		1/4"		3/8"	
Operating temperature		-15°C to +60°C			
Stacking 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.

Surfacing Mounting

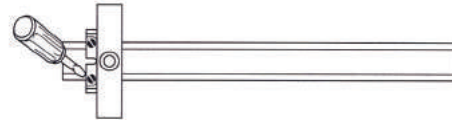
Stacks may be surface mounted by removing the 35 mm DIN mounting hardware on the pneumatic head / tail set.

Removal or Replacement

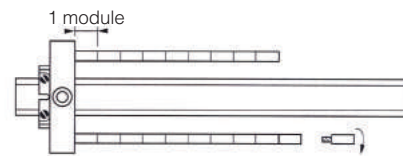
Modules are removed in reverse of the order shown at right. Before removing a module for service or replacement, loosen the pneumatic tail piece.

Mounting Procedure

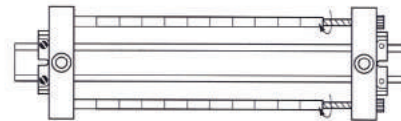
1 - Clip on and tighten the pneumatic head piece.



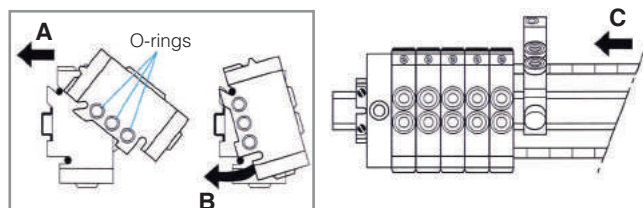
2 - Assemble the two parallel mounting rods using cross rod provided with modules.



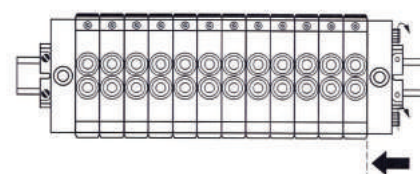
3 - Clip on the pneumatic tail piece. Start screws into mounting rod but leave loose for modules insertion.



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

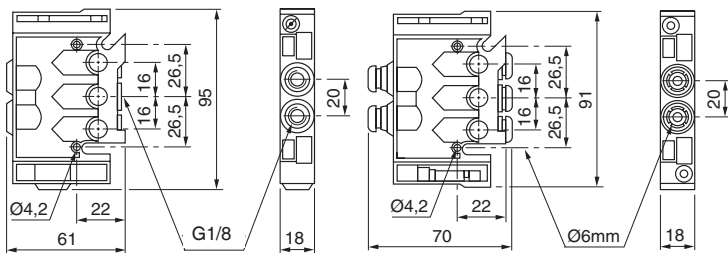


5 - Tighten the assembly.



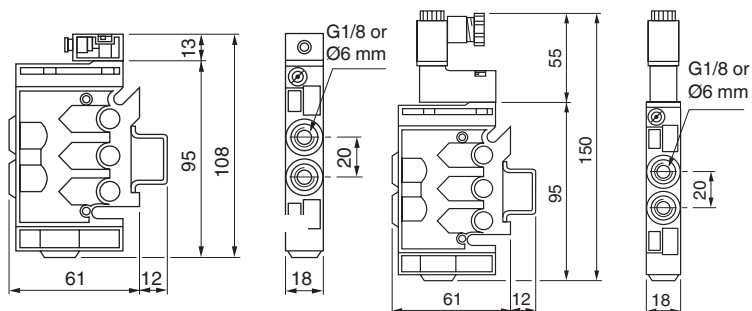
Stand-alone power valves 1/8" without piloting accessories

Monostable PVL-B1116**, PVL-B1136** Bistable PVL-B1126**

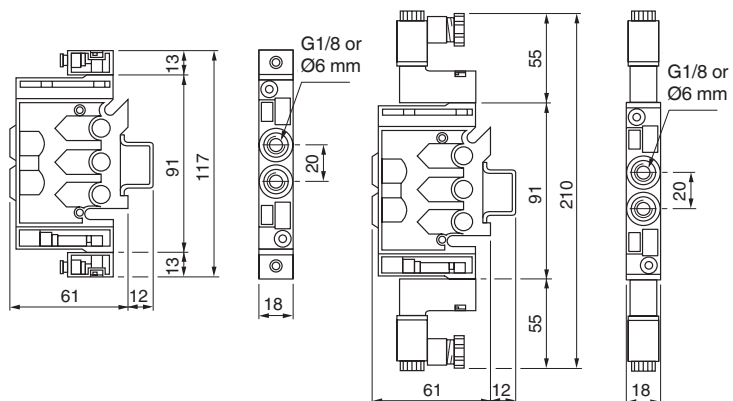


Stacking power valves 1/8" with pneumatic or electrical piloting

Monostable PVL-B1216**, PVL-B1236**

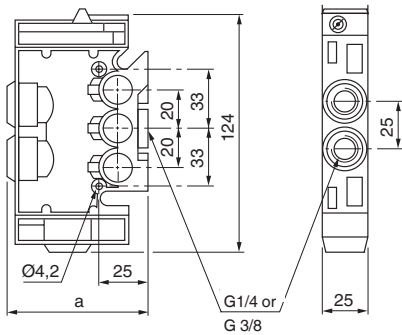


Bistable PVL-B1226**

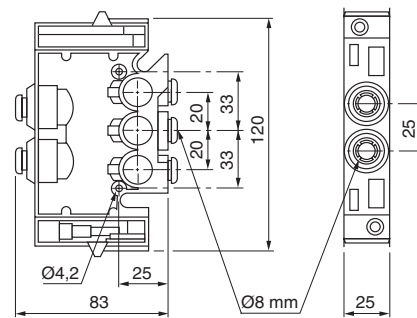


Stand-alone power valves 1/4" without piloting accessories

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



Bistable PVL-C1126**, PVL-C1124**

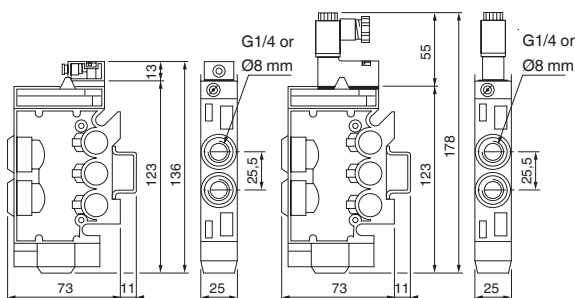


	G1/4	G3/8
a	73	88

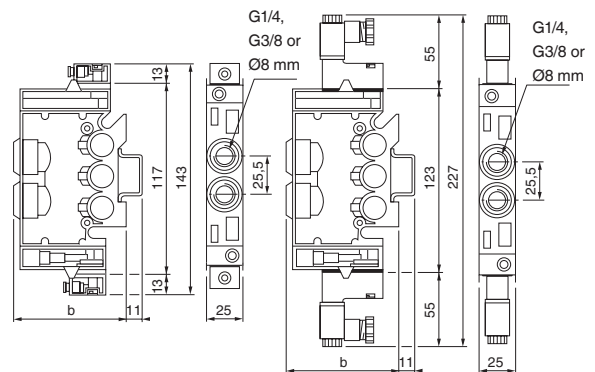
Stacking power valves 1/4" with pneumatic or electrical control

With 1 W solenoid actuator and suitable pneumatic connector

Monostable PVL-C1216**, PVL-C1236**



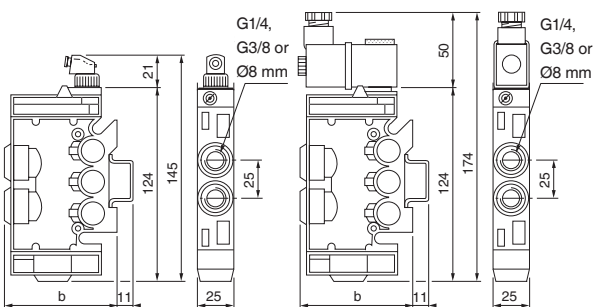
Bistable PVL-C1226**



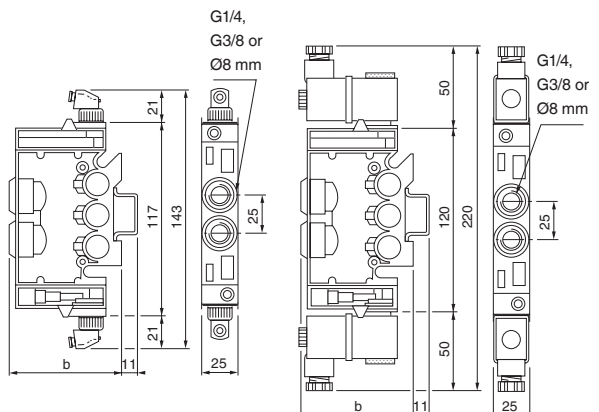
	G1/4	G3/8
b	73	77

With 5W solenoid actuator and suitable pneumatic connector

Monostable PVL-C1214**, PVL-C1234**



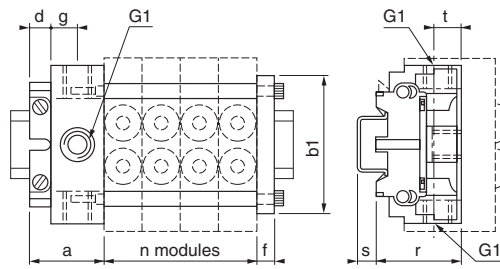
Bistable PVL-C1224**



Head and tail sets

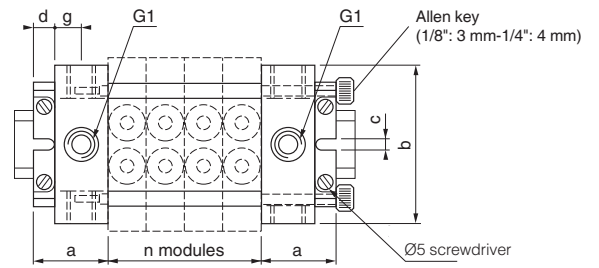
Single air supply

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



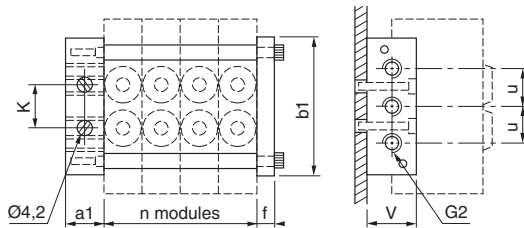
Dual air supply

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



Single air supply

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

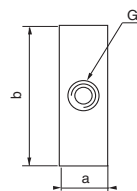
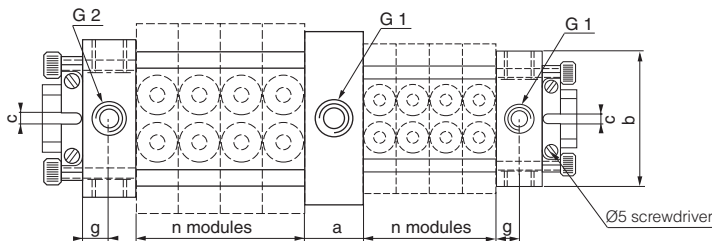


	a	a1	b	b1	c	d	f	g	G1	G2	k	r	s	t	u	v
1/8"	38	16	83	70	4,2	10	8	12	1/4"	1/8"	17,3	44	9	11	16	25
1/4"	38	20	108	100	4,2	10	8	12	3/8"	1/4"	63,5	55	9	13	20	30

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

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

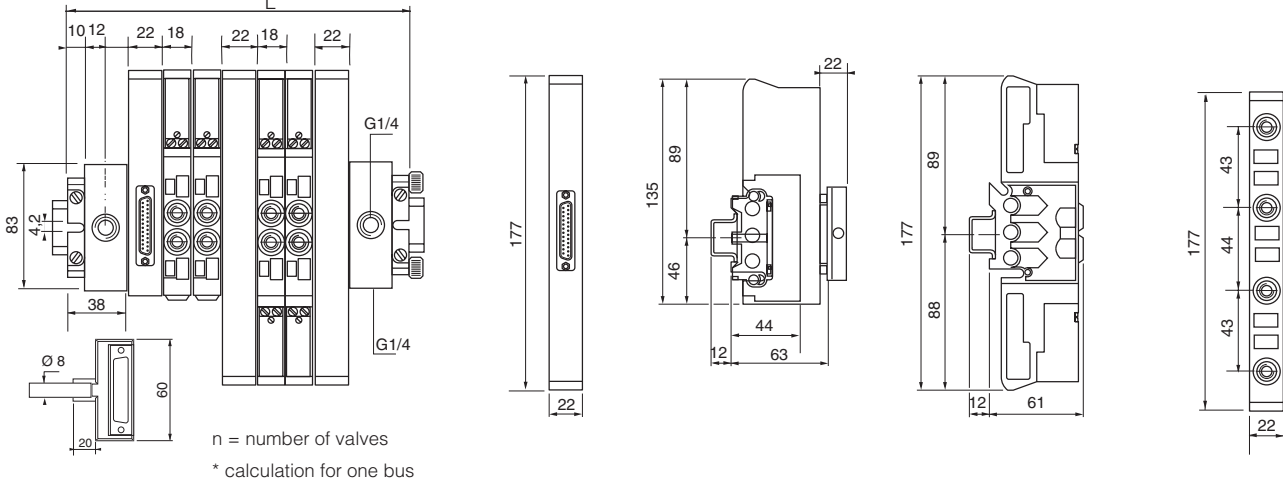
PVUL-BB118 - PVU-LCC119



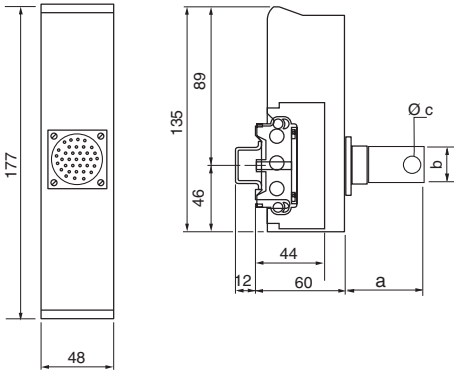
	a	b	G
1/8"	18	75	1/8"
1/4"	25	100	1/4"

Dimensions, Valvetronic PVL-B10

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

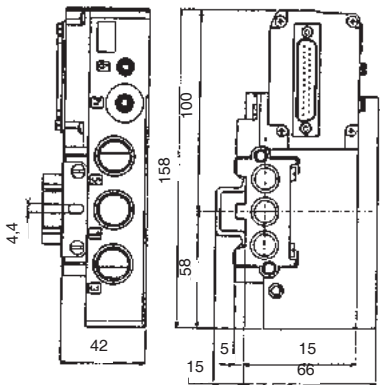


Connector 19 pins	a = 90	b = 31	
Connector 35 pins	a = 115	b = 41	
Cable 19 pins	a = 60	b = 31	Øc = 12
Cable 35 pins	a = 70	b = 41	Øc = 15

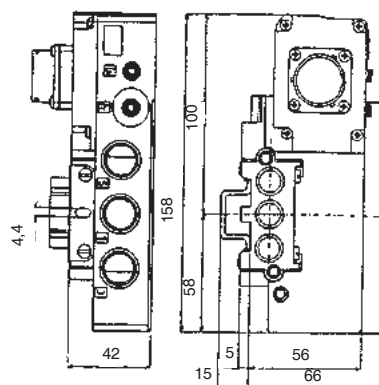


Dimensions, Valvetronic PVL-C10

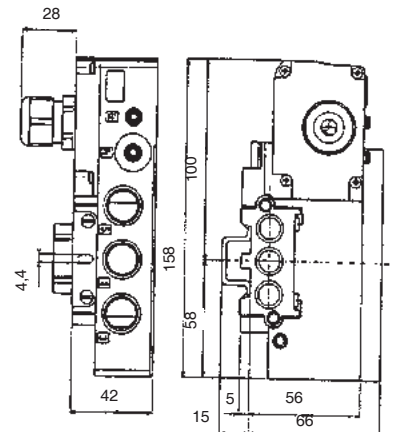
Head modules : SubD25 connector



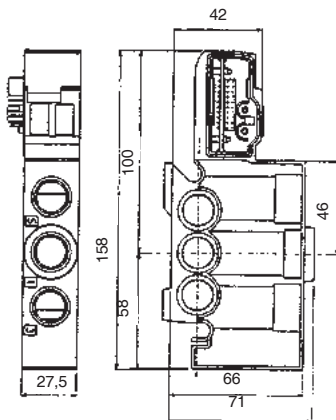
Cylindrical connector



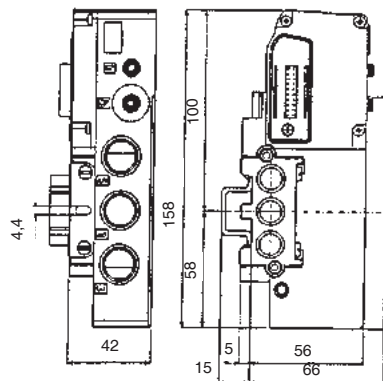
Cable gland



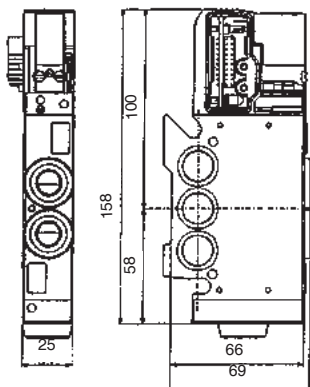
Intermediary air supply module



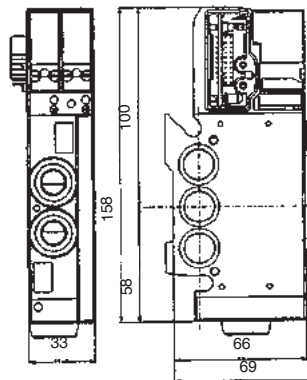
Transfer Module from PVL-B10/PVL-C10 and Head
 ASI bus / Air feed module PVL-C10



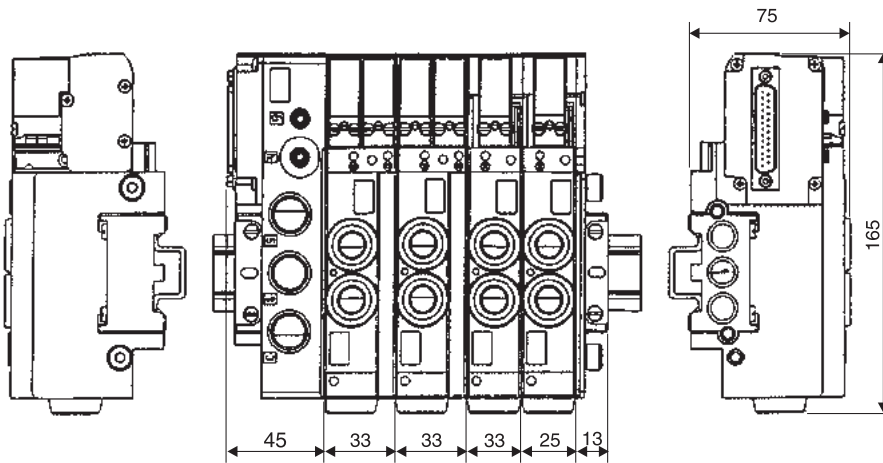
Valve 5/2 monostable



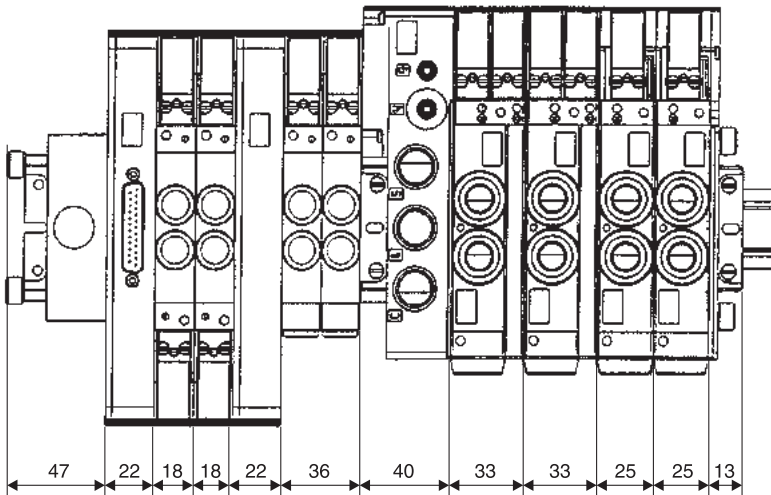
Valve 5/2 bistable - 2x3/2 - 5/3



Dimensions, Valvetronic PVL-C10



Association PVL-B10 G1/8 and PVL-C10 G1/4



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