

Modular Interface Valve - PS1

High speed poppet valve solenoid type with individual electrical connections. Light weight plastic bodies with DIN rail manifold. For cabinet installation

- Push-in connection
- High Performance 15 mm Solenoid
- Built-in terminal block
- Pneumatic output indicator
- DIN rail mounting



Technical characteristics

		3/2	4/2
Fluid :		Air or inert gas, filtered 40 µ, dry or lubricated	
Working pressure :	3/2 and 4/2 Low pressure module	1 to 8 bar	3 to 8 bar ---
Flow rate :	Nominal Qn Maximum Qmax	120 NI/min 200 NI/min	
Changeover time :	Actuation Return	10 ms 15 ms	15 ms 20 ms
Operating temperature :		- 15 °C to + 60 °C	
Storage temperature :		- 40 °C to + 70 °C	
Vibrations resistance :		2 g at 2 to 150 Hz according to IEC68-2-6	
Impact resistance :		15 g 11 ms according to IEC68-2-27	

Head and tail sets - intermediate supply modules

For 3/2 and 4/2 interface modules

	Description	Characteristics	Pneumatic connection	Weight (g)	Order code
	Set for single air supply connection	1 electrical common terminal 1 main air supply port 1 exhaust port	Push-in Ø 6 mm	100	PS1-E101
			G1/8	100	PS1-E1018
	Set for double air supply connection	1 electrical common terminal 2 main air supply ports 2 exhaust ports	Push-in Ø 6 mm	125	PS1-E102
			G1/8	125	PS1-E1028
	Intermediate air supply module	1 air supply port 1 exhaust port (see description below)	G1/8	45	PS1-E1038

Incorporating an intermediate air supply module into a group of electro-pneumatic modules gives the following options :

Air supply connection

- Additional G1/8 port to supplement the air supply to the manifold
- Blank the common air supply, enabling different pressures to be supplied to groups of modules within the manifold.

Exhaust connection

- Additional exhaust flow through the G1/8 port
- Blank the common exhaust, enabling separation of exhaust from module groups

The intermediate air supply module is supplied with 4 interchangeable connectors to enable the above supply options to be achieved.

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Electro-pneumatic modules

Modules without solenoid valve

Visual indication of pneumatic output status : Closed = Red

Open = Yellow

Symbol function	Description	Pneumatic connection	Weight (g)	Order code
	3/2 normally closed (NC)	Push-in Ø 4 mm	52	PS1-E111
		M5	55	PS1-E115
		Push-in Ø 6 mm	55	PS1-E116
	3/2 normally open (NO)	Push-in Ø 4 mm	52	PS1-E121
		M5	55	PS1-E125
		Push-in Ø 6 mm	55	PS1-E126
	4/2 single solenoid / spring return	Push-in Ø 4 mm	120	PS1-E181
		M5	120	PS1-E185
		Push-in Ø 6 mm	125	PS1-E186
	4/2 double solenoid	Push-in Ø 4 mm	120	PS1-E191
		M5	120	PS1-E195
		Push-in Ø 6 mm	125	PS1-E196

Low pressure Electro-Pneumatic modules 3/2 (1 to 8 bar)

Modules without solenoid valve

Visual indication of pneumatic output status : Closed = Red

Open = Yellow

Symbol	Description	Pneumatic connection	Weight (g)	Order code
	3/2 normally closed (NC)	Push-in Ø 4 mm	52	PS1-E311
		M5	52	PS1-E315
		Push-in Ø 6 mm	52	PS1-E316

Solenoids 15 mm - 8 mm pin spacing - 1,2 W / 1,6 VA (220VAC 2,4VA)

Manual override type

	Voltage	Weight (g)	Without Order code	Non locking flush Order code	Locking flush Order code
	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 VAC 50 Hz	38	P2E-KS31C0	P2E-KS31C1	P2E-KS31C2
	48 VAC 50/60 Hz	38	P2E-KS34D0	P2E-KS34D1	P2E-KS34D2
	115 VAC 50 Hz	38	P2E-KS31F0	P2E-KS31F1	P2E-KS31F2
	220 VAC 50 Hz	38	P2E-KS31J0	P2E-KS31J1	P2E-KS31J2

Suppressor and LED indicators

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

Symbol	Description	Pneumatic connection	Weight (g)	Order code
	LED indicator	24 VAC/DC	3	P8V-CR26C
		115 VAC 50 Hz - 120 VAC 60 Hz	3	P8V-CR24F
		230 VAC 50 Hz - 240 VAC 60 Hz	3	P8V-CR24J

Maintenance avertissement - Solenoid pin spacing



The electro-pneumatic interface modules have been re-designed to accept both 8 mm and 9,4 mm solenoid pin spacing. If you are purchasing a solenoid or a suppressor & LED indicator for maintenance on an electro-pneumatic interface module purchased before June 2004, above solenoid P2E-KS3xxx and P8V-CRxxx (8 mm pin spacing) will not be compatible. Please, contact your Parker customer service.

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Electro-pneumatic modules

Modules including 24 VDC solenoid valve (using P2E-KS32C1 solenoid)

Visual indication of pneumatic output status : Closed = Red Open = Yellow

	Symbol	Description	Manual override	Pneumatic connection	Weight (g)	Order code
		3/2 normally closed (NC)	Spring return	Push-in Ø 4 mm	90	PS1-E21102B
		3/2 normally open (NO)	Spring return	Push-in Ø 4 mm	90	PS1-E22102B
		4/2 single solenoid / spring return	Spring return	Push-in Ø 4 mm	160	PS1-E28102B
		4/2 double solenoid	-	Push-in Ø 4 mm	200	PS1-E29102B

Accessories : Pressure switch

With Ø4 push in connection (pneumatic input)

With electrical terminals 1,5 mm² (electric output)

Type	Symbol	Electrical characteristics	Pneumatic characteristics	Override	Weight (g)	Order code
		Pressure switch 1 CO contact 5 A/250 V	Fixed operating threshold < 1,3 bar	Manual override	50	PS1-P1081
			Adjustable operating threshold 2 to 5 bar	Manual override	50	PS1-P1091

Technical characteristics : Pressure switch

- Effective detection for preventing hazardous risks linked with equipments operating at to low pressure
- Manual override
- Easy clip on DIN rail mounting
- Fixed or adjustable threshold versions
- Recessed Electrical Terminals

Electrical durability

	24 VAC	48 VAC	115 VAC	24 VDC	48 VDC	115 VDC
1 million	25 VA	56 VA	115 VA	24 W	37 W	50 W
2 million	-	-	-	14 W	25 W	40 W
5 million	10 VA	14 VA	19 VA	-	-	-

Working pressure	Max 10 bar
Working temperature	-15 °C to +60 °C
Minimum actuating pressure, non adjustable	≤1,3 bar
Minimum actuating pressure, adjustable	2 to 5 bar
Operating frequency	Max 10 Hz
Nominal isolation voltage	660 V AC or DC
Nominal thermal current	10 A
Operating voltage	250 V
Pending current	5 A
Protection level	IP 40
According Power switches (inductive lead)	