









Parker Moduflex Valve System

Catalogue PDE2536TCUK





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Moduflex Valve System

The Moduflex Valve System redefines flexibility for pneumatic users. Whether configured from basic components or ordered as a pre-assembled and tested valve island, Moduflex flexibility is unmatched in the market place.













Innovative

The 6 patents awarded to the Moduflex Valve System reflect that innovation is core to the Parker design process. Maintaining a clear understanding of our customer's expectations has defined the individuality of the Moduflex, and clearly differentiated it as a leading automation solution.

Adaptive

No other system can be adapted so simply once specified. Unique, captive fitting release system, quick release electrical connectors and single mechanical screw connection between manifolds offer the ultimate capability for late system design changes.

Multi-Functional

From stand-alone valves to communicant ready valve islands, from cylinder flow controls to vacuum generators with integrated blow-off, the Moduflex Valve System meets the requirements of the whole automation spectrum.

Light-weight

A communicant valve manifold with 8 pneumatic outputs weighs a mere 800grams, making the Moduflex Valve System the perfect choice for end of arm tooling application.



Moduflex Valve technology

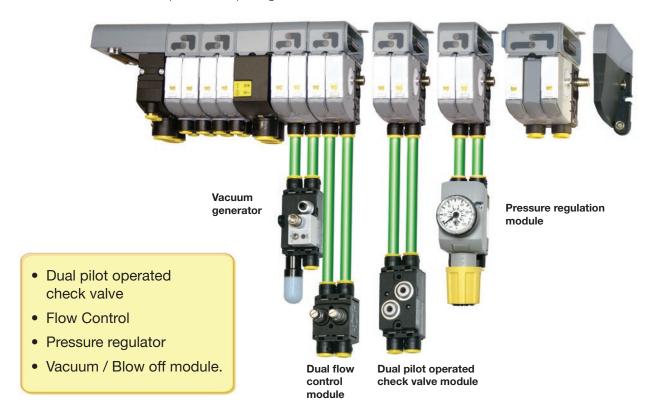
Two technology platforms enable the compact design and high performance of the Moduflex Valve System. The compact dual 4/2 and 3/2 valves utilise well proven Parker seal technology. The standard 4/2 valves adopt the long life super durable ceramic switching technology.





Moduflex Complete Control

With the introduction of the dual 4/2 size 1 valves, Moduflex now offers unrivalled ability of matching valves to exact flow requirements, ensuring cost and space are minimised. In addition, Moduflex Valve System offers all the necessary control peripherals to provide a complete automation solution. Moduflex is the complete control package.



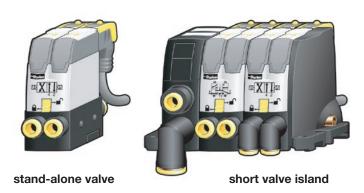


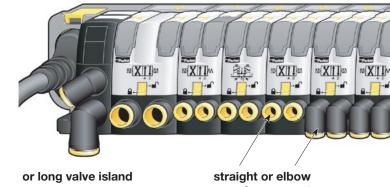
With high performance technology, Moduflex opens a new era in the field of electro-pneumatic automation. Valves are easily assembled into compact islands that conform to any application requirement.

Adaptive pneumatic

With the Moduflex Valve design, pneumatic automation is now totally flexible.

- Valves may be stand-alone or assembled into short or long islands, depending on application.
- IP 65-67 water and dust protection allows the valve to be installed near the cylinders for shorter response time and lower air consumption.
- The IP40 water and dust protection allows an optimised electrical connection for applications into cabinet or soft and none aggressive environments.
- Valve island electrical connections may be integrated.
- Push-in pneumatic connectors may be straight or elbow, for 4, 6, 8 or 10 mm OD tubes.
- A given island may incorporate different valve sizes in order to fulfill each cylinder flow requirement. A single island will accommodate all cylinders, up to 100 mm bore size.
- Island modifications are easy: add or remove a valve, change a valve function, change tubing size or change piloting in minutes.
- Manual overrides are also adaptive: locking for set up, non-locking for production.

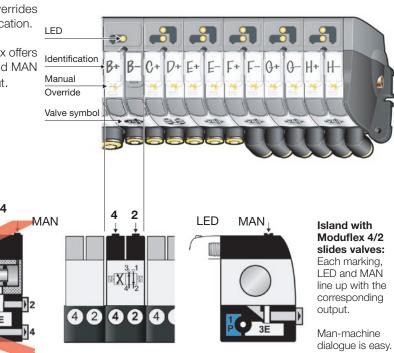




pneumatics connectors

Easy man-machine dialog

- Moduflex incorporates LED indicators, manual overrides (MAN), in conjunction with valve symbols and identification.
- As compared to traditional 5/2 valve islands, Moduflex offers a more user friendly dialogue: each marking, LED and MAN are all lined up with the corresponding cylinder output.





Island with

Before any

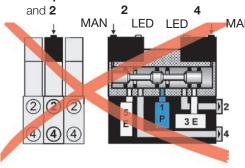
traditional 5/2

spool valves:

action, LED and

MAN have to be

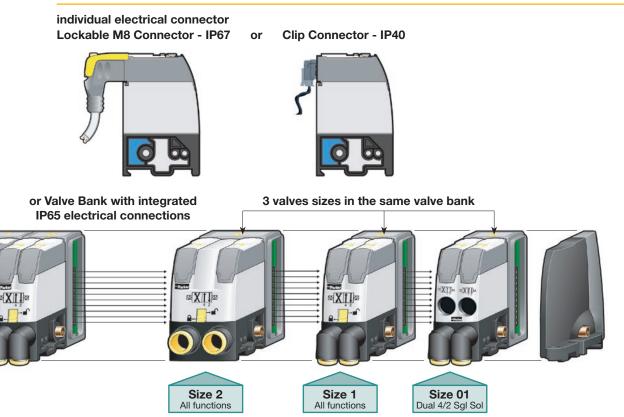
carefully related to



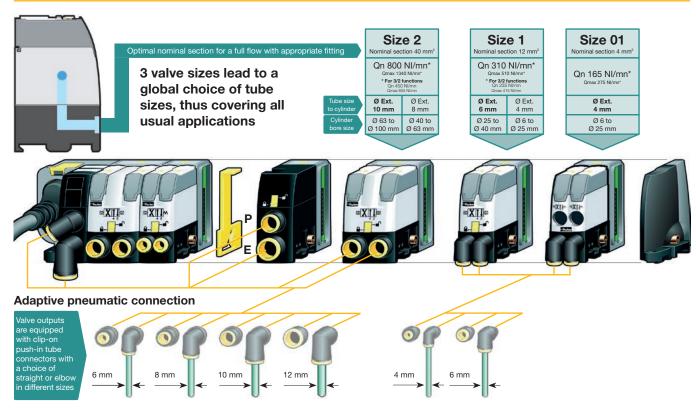




Adaptive design



Flows and tube connections



Typical cylinder speeds are shown on next pages. Module size, tube diameter and length, cylinder size, load and exhaust collection are taken into account.



Cylinder working speed charts

The charts below give the cylinder working speeds at 6 bar, under different conditions:

- non loaded or 50 % loaded double acting cylinder;
- exhaust piped through 2 m. long tubing, or exhaust muffled.

cylinder working speeds, in cm/s

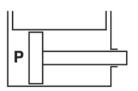
standard conditions:

- 1 double acting cylinder
- working pressure:

P = 6 bar

specific conditions:

- exhaust piped through tube 2 m long, with next ID above ID tube from valve to cylinder.
- non loaded cylinder



valve	tube	tube	tube			Cylind	der bor	e size		
module	odule ID OD		length	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Size 1	2 x	1 mm	1 m.	43 cm/s	28 cm/s					
OIZC I	2 x	4 mm	3 m.	27	17					
	0.7 v	1 mm	1 m.	85	52	33 cm/s				
	2.1 X	x 4 mm	3 m.	55	34	21				
			1 m.	167	100	62	41 cm/s	27 cm/s		
	4 x	C 100 100	2 m.	157	86	54	37	23		
	4 x	6 mm	4 m.	125	73	46	31	19		
			8 m.	94	57	36	24	14		
Size 2	E E V	0 mm	1 m.			146	102	67	40 cm/s	25 cm/s
OIZC Z	5.5 X	0 111111	3 m.			122	84	54	32	20
	6 x	0 mm	1 m.				125	78	46	30
	6 x	8 mm	3 m.				105	65	39	25
	7 x		1 m.				135	88	53	33
	/ X	7 x 10 mm	3 m.				120	77	47	30
	8 x	10 mm	1 m.					94	57	40
	0 X	10 111111	3 m.					85	53	37

cylinder working speeds, in cm/s

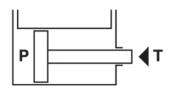
standard conditions:

- double acting cylinder
- working pressure:

P = 6 bar

specific conditions:

- exhaust piped through tube 2 m long, with next ID above ID tube from valve to cylinder.
- 50% loaded cylinder



valve	tube	tube	tube			Cylind	der bor	e size		
module	ID	OD	length	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Size 1	2 x	4 mm	1 m.	32 cm/s	20 cm/s					
0.20 .	_ X	7 111111	3 m.	21	13					
	07 4	1	1 m.	65	43	25 cm/s				
	2.1 X	4 mm	3 m.	43	27	16				
			1 m.	100	85	53	36 cm/s	22 cm/s		
	4 x	6 mm	2 m.	93	75	44	30	19		
	4 x	6 mm	4 m.	83	62	36	24	15		
			8 m.	68	46	27	18	11		
Size 2	E E V	8 mm	1 m.			83	67	44	27 cm/s	18 cm/s
OIZC Z	5.5 X	0 111111	3 m.			79	54	35	21	15
	6 x	0.100.100	1 m.				77	51	32	21
	6 x	8 mm	3 m.				69	43	26	17
	7 x	10 mm	1 m.				88	59	37	24
	/ X	10 mm	3 m.				81	51	30	21
	0 4	10 mm	1 m.					63	39	27
	8 x	10 mm	3 m.					58	35	25



Field of application:

- stand-alone valve modules S series
- valve island modules, T series and V series

Note: a complete machine cycle includes:

- the cylinder displacement times that can be deducted from the cylinder speeds given below
- the cylinders starting times that depend on the cylinder strokes and thus could not be included in the charts below.

cylinder working speeds, in cm/s

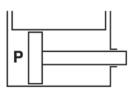
standard conditions:

- 1 double acting cylinder
- working pressure:

$$P = 6 bar$$

specific conditions:

- muffled exhaust (non collected)
- non loaded cylinder



valve	tube	tube	tube			Cylind	der bor	e size		
module	ID _	OD	length	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Size 1	2 x	1 mm	1 m.	43 cm/s	27 cm/s					
OIZC I	2 X	4 mm	3 m.	27	17					
	0.7.4	4 100100	1 m.	88	54	34 cm/s				
	2.1 X	4 mm	3 m.	55	34	22				
			1 m.	170	98	62	42 cm/s	26 cm/s		
	4 x	C 100100	2 m.	150	85	55	37	23		
	4 x	6 mm	4 m.	125	70	45	31	19		
			8 m.	95	56	35	24	15		
Size 2	E E V	0 mm	1 m.			181	126	80	48 cm/s	30 cm/s
OIZC Z	3.3 X	0 111111	3 m.			134	91	58	35	22
	6 x	0 mm	1 m.				139	89	54	34
	6 x	8 mm	3 m.				112	70	43	27
	7 x	10 mm	1 m.				148	94	57	37
	ı X	7 x 10 mm	3 m.				125	81	49	31
	8 x		1 m.					102	60	42
	8 x	10 mm	3 m.					90	55	38

cylinder working speeds, in cm/s

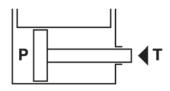
standard conditions:

- 1 double acting cylinder
- working pressure:

$$P = 6 bar$$

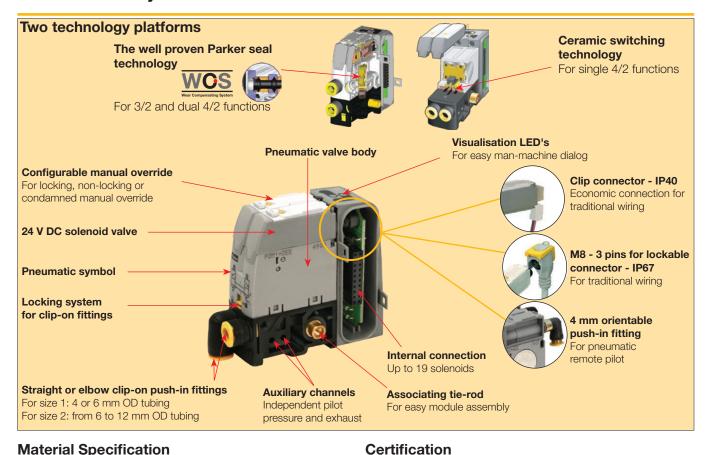
specific conditions:

- muffled exhaust (non collected)
- 50% loaded cylinder



valve	tube	tube	tube			Cylind	ler bor	e size		
module	ID	OD	length	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Size 1	2 x	1 mm	1 m.	35 cm/s	22 cm/s					
0.20	2 X	4 mm	3 m.	23	14					
	07 4	1 mm	1 m.	67	44	27 cm/s				
	2.1 X	4 mm	3 m.	44	28	17				
			1 m.	100	87	56	38 cm/s	23 cm/s		
	4 x	6 mm	2 m.	93	77	46	31	19		
	4 x	6 mm	4 m.	83	63	37	25	16		
			8 m.	69	46	28	18	12		
Size 2		8 mm	1 m.			102	85	54	33 cm/s	22 cm/s
OIZC Z	5.5 X	8 111111	3 m.			87	61	40	24	16
	<u> </u>	0.100.100	1 m.				91	59	37	25
	6 x	8 mm	3 m.				77	46	29	19
	7	10 mm	1 m.				98	63	40	26
	7 x	10 mm	3 m.				87	54	33	22
	0 1	10 mm	1 m.					68	43	30
	8 x	10 mm	3 m.					61	38	27





Material Specification

Polyamide reinforced fibreglass

Plastics: Screws: Zinc plated steel Nitrile rubber Seals: Valve mechanism: Aluminium allov

Plate: Ceramic EMC / CE mark: According to EN 61 000-6-2 According to EN 60529 - NEMA 4 Dust & water protection:

M8 connector: IP67 Clip connector: IP40 - S & T series:

- V series: IP65*

* For 25 Pins D-Sub connection: IP40 or IP65 depending on the cable

Moduflex specifications answer most industries automation requirements. Applications run from clean room electronic manufacturing to process industries in aggressive environments.

Pneumatic specifications

General Specification								
Fluid		Air or Inert gas, Filtered 40µ (class 5 according to ISO 8573-1) Dry (class 4 according to ISO 8573-1) or Lubricated (with lubricated air, we recommend external pilot supply with non lubricated air)						
Operating Pressure		-0.9 to 8.0 bar						
Piloting Pressure	3/2 N.C. or N.O.		3,5 to	8,0 bar				
for operating pressures below, use external pilot by configuring the head module accordingly	4/2 single solenoid		3,0 to	8,0 bar				
(function available on standard head module)	4/2 double solenoid		3,0 to	8,0 bar				
D	S Series		Inte	ernal				
Pilot supply	T & V Series	Mixed in	ternal/external (configura	able on the standard head	d module)			
Exhaust collection		Д	Il collectable (including p	pilot solenoid valve exhaus	st)			
if - (- -i\	3/2 N.C. or N.O.	60 million operations (with dry air, 2 Hz, 20°C, 6 bar)						
Life cycle (all sizes)	Single and Dual 4/2	100 million operations (with dry air, 2 Hz, 20°C, 6 bar)						
	Clip connector							
	Lockable connector		-15°C	to 60°C				
Operating temperatures	Multiwiring connector							
	Industrial Communication		0°C t	o 55°C				
Stocking temperatures			-40°C	to 70°C				
Vibration resistance		2	G - From 2 to 150 Hz (A	According to IEC 68 - 2 - 0	6)			
Impact resistance			15G - 11 ms (Accord	ding to IEC 68 - 2 - 27)				
Flow specifications		Dual 4/2	Dual 3/2	Single 3/2	Single 4/2			
Size 1	Q max. (NI/mn)	275	415	415	510			
Size 1	Qn (Nl/mn)	165	235	235	310			
Size 2	Q max. (NI/mn)	-	805	805	1340			
SIZE Z	Qn (Nl/mn)	-	450	440	800			



Electrical specifications

Pilot solenoid S	pecifications							
	Electric Connector		M8 Clip connector					
	Rated Voltage		24 V	dc				
	Electric Connection	n	Not polarized	Polarized				
	Allowable voltage fluctuation		-15% to +10% (at 20°C)	+/- 10% (at 20°C)				
	Coil insulation type	;	Class B	Class F				
	Power consumptio	n	Without lockable connector: 1W	1W				
	Power consumptio	11	With lockable connector: 1,2W	1 V V				
1	Visualisation and s	urge protection	Included into lockable connector	Included on pilot solenoid				
	Manual override		Configurable: Locking or non-locking, isolated if required					
	Response Time	3/2 N.C. or N.O.	Actuating:	: 10 ms				
7	of the complete - valve	4/2 single solenoid	Return:	15 ms				
-	(with connector)	4/2 double solenoid	10 m	ns				
//	Duty factor		ED 10	0%				
	Dust and Water protection V Series		IP67 (with lockable connector)	IP40 (with clip connector)				
			Guillotine connector: IP65 25 Pin D-SUB: IP40 or IP65 (depending on female connector) P2M Node: IP65 P2M Lite Node: IP20					

Communication module specifications

Ethernet Protocols			Profinet IO	EtherNet/IP	Modbus/TCP	EtherCAT	PowerLink	CC-Link IE	
		P2M Node	✓	✓	✓	✓	✓	✓	
		P2M Lite Node	✓	✓		✓			
	E	thernet specifications			According to proto	ocol specificatio	ns		
	S	peed communication		10/10	00 Mb - Half / Full o	duplex		1 Gb	
		Service Web Page		YES			N/A		
		Logic power supply		24 V	dc - According to	protocol specifi	cations		
	Topolog	y (Internal 2 port switch)		Line / Ring			Line		
	Valves power	Voltage			20,4 Vdc to	26,4 Vdc			
		OSSD compability		P2I	P2M Node: Test F M Lite Node: Test F				
		Galvanic isolation			Node: 2,5 kV (Log Node: Common po				
	Max. current	limit Total	P2M Node: 4 A P2M Lite Node: 2 A						
		Per channel			150	mA			
		Protection	Polarity inversion, short circuit and Over Temperature						
IO-Link				Standard Version	on	-SPC Version			
IO-LIIIK		O-Link specifications			According to I	O-Link V1.1.2			
	S	peed communication	Com2 - 38 kBd						
		Logic power supply		Module powe	red by IO-Link ma:	ster according to	o IO-Link V1.1.2		
	Aux. power	Voltage			20,4 Vdc to	26,4 Vdc			
		OSSD compability		No		Yes	(Test Pulsed supp	orted)	
		Galvanic isolation			Ye	es		,	
	Max. current	limit Total		2A					
		Per channel	4A 2A 150 mA						
		Protection	Polarity inversion & short circuit						
			According to EN 61000-6-2 & EN 50081-2						



Technical characteristics

Vacuum module

Fluid

Compressed air or inert gas, filtered 40µ mini., not lubricated

Working pressure

1 to 8 bar

Working temperature

-15°C to +60°C

Materials

Body: Polyamide 6,6 reinforced fibreglass

Poppet: Nitrile

Nozzle: Brass

Clip connector: Treated steel

Pressure sensor

Fluid

Air or inert gas, filtered 40µ mini., not lubricated

Working temperature

0°C to +50°C

Supply

10,8 to 30 V DC

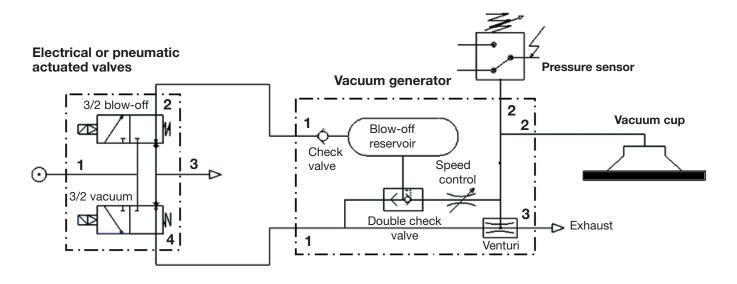
Digital output

PNP 125 mA

Materials

Body: Polycarbonate

Connection drawing



Specific characteristics

Maximum vacuum

Vacuum level: 90% at 6,5 bar

Air consumption

Consumption: 46 NI/min at 5 bar

Vacuum flow

Flow: 25NI/min at 0 % vacuum and 6,5 bar

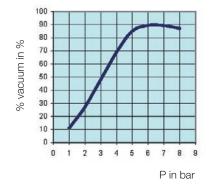
Evacuation time in s/I to reach different vacuum levels % (at P = 6,5 bar)

Vacuum %	0	10	20	30	40	50	60	70	80	90
Time in s	0,0 / 0,0	0,3 / 0,3	0,4 / 0,5	0,8 / 0,9	1,4 / 1,5	2,0 / 2,2	2,7 / 3,2	3,7 / 4,9	5,9 / 9,8	10,7 / -
Flow in NI/min	24,9 / 23,2	22,1 / 20,3	19,3 / 17,3	16,6 / 14,4	13,8 / 11,5	11,0 / 8,5	8,2 / 5,6	5,5 / 2,7	2,7 / 0,0	0,0 / -

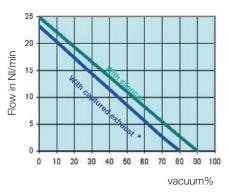
With silencer / With captured exhaust *

Performances

Vacuum level

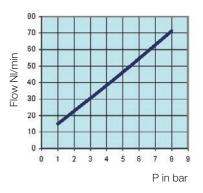


Vacuum flow



* 1 m exhaust - tube Ø6 mm 3 m exhaust - tube Ø8 mm

Air consumption



Operating information Dual 4/2 Dual 3/2 3/2 4/2 Working pressure -0,9 to 8 bar Pilot pressure 3 to 8 bar * 275 l/min 415 l/min 415 l/min 510 l/min Qmax. Size 1 -15 °C to 60 °C Working temperature Qn 165 l/min 235 I/min 235 l/min 310 l/min Protection individual M8 connectors IP 67 NEMA4 Protection individual clip connector IP40 Protection integrated connectors IP 65 **Q**max 805 I/min 805 l/min 1340 l/min Size 2 24 V DC Voltage 450 I/min 440 l/min 800 l/min Qn * Single and double 3/2 3,5 to 8 bar

Total ordering flexibillity

In addition to the complete product adaptability, the Moduflex valve range offers ordering flexibility for V, T, S and P series with 3 different designs; from all components separately ordered (basic module) to pre-assembled and tested valve island.

Basic module	_	Complete module	N		asssembled live island
		(A)			00000000000000000000000000000000000000
F- T		T	\triangleright	© 	
7 ⁻ S a-1 -a	\triangleright	S [-alone nodule	
O- IPI -D		(P)		heral dule	

Ordering options

1 - Basic modules ordering

Using this option, all basic components are separately ordered :

- Head and Tail set
- Valve modules
- Intermediate module kit
- Peripheral modules
- Pneumatic connectors, mufflers and plugs
- Electrical connection or fieldbus module

The complete bill of material needed for the valve island assembly can be easily details using page 1 of the Moduflex Valve Configurator software report.

2 - Complete modules ordering

Using this option, modules are defined, ordered and supplied, pneumatic connectors and electrical connection equiped. One part number defines:

- Function module
- Pneumatic connectors, muffler and plugs
- Electrical connection and cable

For an entire valve island configuration, the list of complete modules can be easily details using page 3 of the Moduflex Valve Configurator software report.

3 - Pre-assembled valve islands ordering

Using this option, the complete valves island configuration has to be defined, and may be ordered, delivered fully assembly and tested under one part number.

The Moduflex Valve in-line e-Configurator software is an easy way for a clear definition of the requested valve island configuration.



V series

Integrated connection field bus or multi-connector valve island



T series

Individual connector valve islands Solenoid clip or lockable connector or remote air pilot



S series

Stand alone valves

Solenoid clip or lockable connector or remote air pilot



P series

Peripheral modules

Flow control, check valves, pressure regulator, vacuum







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Pages 22-23



Pages 24-25



Pages 26-27



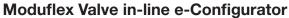




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http://www.parker.com/pde/P2M



Tail

Integrated connections valve islands: V series

In a V series Moduflex valve island, electrical controls are all received by the head module and transmitted to the concerned valve modules through the modular integrated circuit.

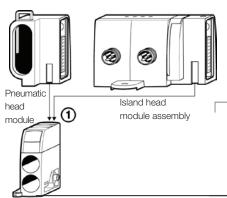
The head node may either be a cable multi-connector or a Fieldbus communication node: the next pages show multi-connector cable and a complete choice of bus protocols.

(2)

Valve island assembly



Valve island electrical head module: multi-connector or communication nodes



Valve island configuration

The following page shows all valve sizes and functions that may enter into a V series valve island and, for each valve size, a choice of clip-on pneumatic connectors: tubing size, straight, elbow etc.

To receive its pressure supply and collect its exhaust, the island also requires a pneumatic head and tail module set and sometimes an

intermediate module set with 4 configuration plates for different functions.

To receive its electrical controls, the island is completed by an electrical head module, either a multi-connector or by a communication node to be chosen from the next pages.



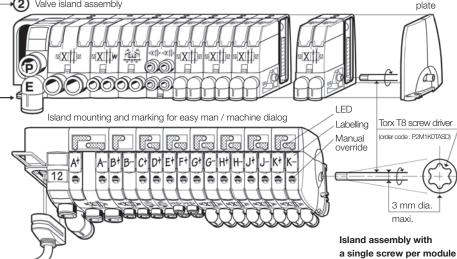
The above illustration presents:

- Step 1 : the electrical head module is engaged into the pneumatic head module;
- Step (2): valve modules are one by one screwed onto each other starting from the head module. For this task, the single integrated screw is tightened with a torx T8 standard screwdriver.

The pneumatic connectors may be clipped or unclipped at any stage.

With a LED, a manual override and a labelling for each valve pilot (see illustration), the island front face eases the "man / machine" dialogue.

The resulting valve island length is expressed by the drawing below, while further size details and mountings are presented on the dimensions pages.



Modules and island ordering

Choice between 3 approaches:

1 - Basic modules ordering:

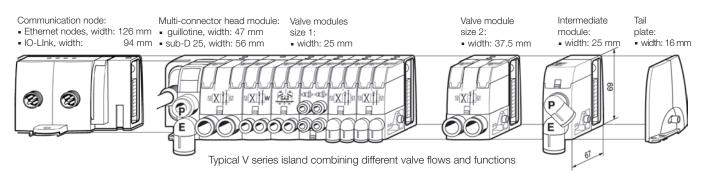
The following page shows these modules supplied without connector, together with the choice of clip-on connectors separately supplied (10 units packs). This approach gives the maximum flexibility.

2 - Complete modules ordering:

Page 31 shows the ordering chart for modules supplied with their connectors.

3 - Assembled island ordering:

An In-Line configurator, available from the product web-page "http://www.parker.com/ pde/P2M", allows to specify a valve island that may be delivered assembled.





Basic modules (without connector)

Valve Modules				Size 1		Size 2
Size 1	Symbol	Description	Weight [g]	Order code	Weight [g]	Order code
0=-	\mathbb{Z} \mathbb{X} \mathbb{Y} \mathbb{Y} \mathbb{Y} \mathbb{Y}	4/2 Solenoid spring	94	P2M1V4ES2CV	100	P2M2V4ES2CV
		4/2 Double solenoid	103	P2M1V4EE2CV	110	P2M2V4EE2CV
OTT -	4 3 3 2	2 x 3/2 NC + NC with exhaust check valves	106	P2M1VDEE2CV	115	P2M2VDEE2CV
100	4 2 2	2 x 3/2 NO + NO with exhaust check valves	106	P2M1VCEE2CV	115	P2M2VCEE2CV
	4 V 2 2	2 x 3/2 NC + NO with exhaust check valves	106	P2M1VEEE2CV	115	P2M2VEEE2CV
	2 V V 2 2 4	2 x 4/2 Solenoid spring with exhaust check valves	114	P2M1VJEE2CV		
oth-	4	3/2 NC with exhaust check valves	102	P2M1V3ES2CV	110	P2M2V3ES2CV
WIS S	4 2 2	4/3 Centre exhaust 2 x 3/2 NC + NC without exhaust check valves	106	P2M1VGEE2CV		P2M2VGEE2CV

Island head and intermediate module sets

Valve Modules				Size 2
		Description	Weight [g]	Order code
	Valve island pneumatic head and tail module set	64	P2M2HXT01	
P2M2HXT01	P2M2BXV0A	Valve island intermediate supply module with a set of 4 configuration plates	68	P2M2BXV0A

Clip-On pneumatic connectors *

Valve Modules			5	Size 1		Size 2	
	Description	Tube OD	Weight [g]	Order code	Weight [g]	Order code	
		G1/8"	2	FMDG1-1			
			2	FMD04-1			
			3	FMD06-1			
	Straight connector				3	FMD06-2	
					4	FMD08-2	
					5	FMD10-2	
					6	FMD12-2	
		G1/8»	3	CMDG1-1			
			3	CMD04-1			
			5	CMD06-1			
	Elbow connector				5	CMD06-2	
					6	CMD08-2	
					7	CMD10-2	
					8	CMD12-2	
	Silencer				5	MMDVA2	
* Fittings and plugs pack quantity: 10	Plug				5	PMDXX2	

V series valve island: Electrical multi-connector head module

	Description		Protection	Cable length	Weight [g]	Order code
Allerin and		Multi-connection head module			38	P2M2HEV0A
0000000	Guillotine type	Guillotine connector with flying leads multi-cable	IP65	2 m	335	P8LMH20M2A
				5 m	802	P8LMH20M5A
		nying icads maiti cabic		9 m	1425	P8LMH20M9A
67		Multi-connection head module			60	P2M2HEV0D
200	Standard Sub-D 25 type	Cub D OF connector with	ID 40	3 m	435	P8LMH25M3A
1000000		Sub-D 25 connector with flying leads multi-cable	IP40	9 m	1425	P8LMH25M9A
		llyling leads multi-cable	IP65	9 m	1425	P8LMH25B9A



Valve Island V Series with **⊘** IO-Link connection

The P2M Moduflex �IO-Link 24 DO node allows a very simple and cost efficient connection to any IO-Link master, centralised into the PLC or decentralised through an industrial Ethernet network.

Designed in both Class A and Class B versions with an isolated auxiliary power, it can easily be adapted to all power supply architectures and follow machine directives



P2M IO-link 24 DO Class A node with independent Auxiliary Power Supply



The P2M **⊘**IO-**Link** 24 DO Class A node can handle a Moduflex Valve bank having up to 19 pilot solenoid valves.

Thanks to its 2 x M12 A codded male connectors, it can be connected to any IO-Link Class A masters and separately receive its auxiliary power supply for valves from an independent source.

The P2M OC-Link 24 DO Class A node exists in 3 versions with the Auxiliary Power M12 connector pin out adapted to any sourcing through a standard M12 cable:

- P2M2HBVL12400A13 / -SPC version: 24 Vdc / 0 Vdc on pins 1 & 3 Standard version
- P2M2HBVL12400A43 / -SPC version: 24 Vdc / 0 Vdc on pins 4 & 3 Compatible with Siemens wiring
- P2M2HBVL12400A42 / -SPC version: 24 Vdc / 0 Vdc on pins 4 & 2 Compatible with Rockwell wiring

P2M IO-link 24 DO Class B node



The P2M Olo-Link 24 DO Class B node can handle a Moduflex Valve bank having up to 19 pilot solenoid valves.

Thanks to its single M12 A codded male connectors, it can be connected to any IO-Link Class B masters receiving its auxiliary power supply for valves on pins 2 & 5 from the only cable simplifying the connection

Diagnostic



The P2M ♦ IO-Link 24 DO node offers a local diagnostic through 4 LED's located on the visible top side, showing:

- IO-Link com status
- Node error
- Output error
- · Auxiliary power

Additionnal useful diagnostic information can be read by the PLC through the network simplifying diagnostic and allowing predictive maintenance (all details in the user manual)

Safe Power Capable version (-SPC)

Auxiliary power of -SPC version of P2M IO-Link 24 DO node can be supplied from a safe output device following machinery directives. This includes:

- Output Signal Switch Device (OSSD) test pulse compatible
- Galvanic isolation between 0 Vdc Logic and Aux power
- PP or PM cabling modes

For more details, refer to the "Communication nodes – connection and configuration" section.



V series valve island: Communication node for IO-Link

Communication node for 19 outputs (Moduflex Pilot Valves) (The last 5 outputs of this 24 DO node can't be used with Moduflex Valve)

			M12 A cod	ded Connector o	connection		
	Description	IO-Link Class	⊘ IO-Link	Aux.@Power	Aux. Power Pinout	Weight (g)	Order code
	P2M IO-Link Communication Node	Class A	3 Pin's	3 Pin's	1 & 3	160	P2M2HBVL12400A13
000000			3 Pin's	3 Pin's	4 & 3	160	P2M2HBVL12400A43
			3 Pin's	5 Pin's	4 & 2	160	P2M2HBVL12400A42
		Class B	5 Pin's		2 & 5	140	P2M2HBVL12400B25
000000	P2M IO-Link Communication	Class A	3 Pin's	3 Pin's	1 & 3	165	P2M2HBVL12400A13-SP0
	Node Safe Power		3 Pin's	3 Pin's	4 & 3	165	P2M2HBVL12400A43-SP0
	Capable		3 Pin's	5 Pin's	4 & 2	165	P2M2HBVL12400A42-SP0
		Class B	5 Pin's		2 & 5	145	P2M2HBVL12400B25-SPC

IODD file can be downloaded from IODD Finder or the Moduflex web site: https://ioddfinder.io-link.com www.parker.com/pde/io-link

Accessories





Valve Island V Series with Industrial Ethernet connection

EtherNet/IP

POWERLINK

The P2M Industrial Ethernet 24 DO node allows a very simple and cost efficient connection to the most popular Industrial Ethernet networks.

Designed with an isolated auxiliary power, it can easily be adapted to all power supply architectures and follow machine directives.



Product Set-Up





The P2M Industrial Ethernet 24 DO node offers an IP addressing through 3 rotary switches located on the top side.

The 3 rotary switches allow also a Factory Reset, IP address storage, and DHCP mode addressing.

As soon as supported by protocol, this IP address can be modified through an imbedded web page.

For an application requiring a regular disconnection / reconnection of the node, Profinet and EtherNet/IP protocols allow respectively a Fast Start-Up (FSU) and Quick Connect mode. This mode can be enable or disable.

Technology / Integrated Ethernet Switch



The P2M Industrial Ethernet 24 DO node offers 2 Ethernet ports allowing a line topology without external switch. The Ring topology can also be supported (enable/disable) for Profinet, EtherNet/IP and Modbus TCP/IP.

The integrated Ethernet switch support Class C Services allowing used in an isochronous real time (IRT) structure.

Diagnostic



The P2M Industrial Ethernet 24 DO node offers a local diagnostic through 7 LED's located on the visible top side, showing:

- Logic status
- Ethernet activity on both ports
- Standard Status due to protocol
- Output error / Auxiliary power

This local information as well as trouble shooting and predictive maintenance diagnostics (Power monitoring, Life cycle counting, ...) are available in PLC through the network and reported on imbedded web page.

When PLC is in "STOP", the web page allows to force ON/OFF solenoids state. This function has a password protection.

Safe Power Capable

Auxiliary power of P2M Industrial Ethernet 24 DO node can be supplied from a safe output device following machinery directives. This includes:

- Output Signal Switch Device (OSSD) test pulse compatible
- Galvanic isolation between 0 Vdc Logic and Aux power
- PP or PM cabling modes

For more details, refer to the "Communication nodes - connection and configuration" section.



V series valve island: Communication node for Industrial Ethernet

Industrial Ethernet node for 19 outputs (Moduflex Pilot Valves) (The last 5 outputs of this 24 DO node can't be used with Moduflex Valve)

	Description	Protocol	Eth. ports	Aux. Power	Weight (g)	Order code
00000	P2M ndustrial Ethernet Communication Node	Profinet IO	2 x M12 D-coded	M12 A-codded	190	P2M2HBVN12400
		EtherNet/IP	2 x M12 D-coded	M12 A-codded	190	P2M2HBVE12400
		EtherCAT	2 x M12 D-coded	M12 A-codded	190	P2M2HBVT12400
		PowerLink	2 x M12 D-coded	M12 A-codded	190	P2M2HBVW12400
		Modbus /TCP	2 x M12 D-coded	M12 A-codded	190	P2M2HBVM12400
		CC-Link IE	2 x M12 X-coded	M12 A-codded	190	P2M2HBVK12400*

^{*)} Coming soon

Configuration file can be download from the dedicated product web page: www.parker.com/pde/P2M_IE

Accessories



Description	Connector type	Weight (g)	Order code	
Quick connect straight connector for module power supply	M12 - 5 Pin's Female - A Coding	25	P8CS1205AA	



Valve Island V Series with Industrial Ethernet connection Ether Net / IP

The P2M Industrial Ethernet Lite node 24DO allows a very simple and cost efficient connection to the most popular Industrial Ethernet networks.

In its compact IP40 version equiped with two RJ45 Ethernet ports, it saves size in cabinet applications and offers an easy connection to the network in a line topology.



Product Set-Up





The P2M Lite Node 24DO is by default in DHCP mode. The module must be assigned to a static IP-Address in order be controlled via the network.

The Network Configuration settings can be done throung the embedded web server of the node as well as "IPconfig", "TIA Portal" or similar methods.

For an application requiring a regular disconnection / reconnection of the node, Profinet and EtherNet/IP protocols allow respectively a Fast Start-Up (FSU) and Quick Connect mode. This mode can be enable or disable.

Technology / Integrated Ethernet Switch



The P2M Industrial Ethernet Lite node 24DO offers 2 RJ45 ports allowing a line topology without external switch. The Ring topology can also be supported (enable/disable) for Profinet and EtherNet/IP.

The integrated Ethernet switch support Class C Services allowing used in an isochronous real time (IRT) structure.

Diagnostic



The P2M Industrial Ethernet Lite node 24DO offers a local diagnostic through 5 LED's located on the visible top side and 4 additionals on both Ethernet connectors showing:

- Logic status
- Ethernet activity on both ports
- Standard Status due to protocol
- Output error / Power Supply

This local information as well as trouble shooting and predictive maintenance diagnostics (Power monitoring, Life cycle counting, ...) are available in PLC through the network and reported on imbedded web page.

When PLC is in "STOP", the web page allows to force ON/OFF solenoids state. This function has a password protection.

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V series valve island: Communication node for Industrial Ethernet

P2M Lite Industrial Ethernet node for 19 outputs (Moduflex Pilot Valves) (The last 5 outputs of this 24 DO node can't be used with Moduflex Valve)

0	Description	Protocol	Eth. ports	Power	Weight (g)	Order code
00000	P2M Industrial Ethernet Communication Node	Profinet IO	2 x RJ45	3 PIN's male*	190	P2M2HBVN12400RJ
		EtherNet/IP	2 x RJ45	3 PIN's male*	190	P2M2HBVE12400RJ
		EtherCAT	2 x RJ45	3 PIN's male*	190	P2M2HBVT12400RJ

^{*)} Female 3,81 mm pitch connector included Configuration file can be download from the dedicated product web page: www.parker.com/pde/P2M_IE



Individual connection valve islands: T series

In a T series valve island, electrical controls are individually connected to each valve module, onto its solenoid pilot.

As an alternative, air pilot valve modules are also available. to be controlled by individual pneumatic signals.



Valve island assembly

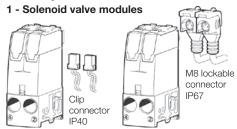
As shown by the above illustration, the valve modules are one by one screwed onto each other, starting from the head module. For this task, the single integrated screw is tightened with a torx T8 standard screwdriver.

The pneumatic connectors may be clipped or unclipped at any stage.

With a LED, a manual override and a labelling for each valve pilot (see above illustration), the island front face eases the "man / machine" dialogue.

The resulting valve island length is expressed by the drawing below, while further size details and mountings are presented on dimensions pages.

Valve pilot connections



In its IP40 version, each solenoid shows Clip connection integrating LED and voltage surge protection. The clip connector with flying leads may be ordered separately with independent or interconnected common.

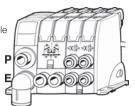
In its IP67 version, each solenoid shows a M8 connection. Lockable connectors, IP67 protected, with LED voltage surge protection and flying lead cable may be ordered for the required length.

2 - Air pilot valve modules



No connector has to be ordered: each pneumatic pilot port includes its integrated movable elbow 4 mm OD tube push-in connector.

Typical T series short island for single or double acting small cylinders.

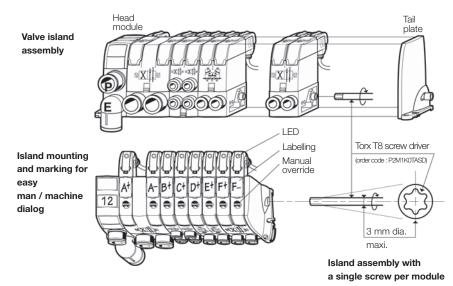


Valve island configuration

The following page presents all valve sizes and functions that may enter into a T series valve island and, for each valve size, a choice of clip-on pneumatic connectors: tubing size, straight, elbow etc."

To receive its pressure supply and collect its exhaust, the island also requires a

pneumatic head and tail module set and sometimes an intermediate module set including 4 configuration plates for different functions. Valve modules may either be solenoid versions or air pilot versions. Mixing both versions into the same valve island is possible.



Modules and island ordering

Choice between 3 approaches:

1 - Basic modules ordering:

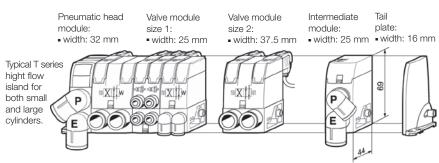
The following page shows these modules supplied without connector, together with the choice of clip-on connectors separately Page 30 shows the valve island configurator gives the maximum flexibility.

2 - Complete modules ordering:

Page 27 shows the ordering chart for modules supplied with their connectors.

3 - Assembled island ordering:

supplied (10 units packs). This approach CD-Rom to specify a valve island that may be delivered assembled.



Typical T series islands combining different valve flows and functions



Basic modules (without connector)

Valve Modules							Size 1		Size 2
01	. 4	Symbol	Description	Actuator	Pilot connector	W (g)	Order code	W (g)	Order code
Size	e 1 al 4/2	3A 71	4/2 Spring return	Solenoid	M8 Lockable	68	P2M1T4ES2C	74	P2M2T4ES2C
		™X IIM			Clip	68	P2M1T4ES2CW	74	P2M2T4ES2CW
2150		4 • 2		Air pilot		63	P2M1T4PS	69	P2M2T4PS
		34 ⊽1	4/2 Double pilot	Solenoid	M8 Lockable	77	P2M1T4EE2C	83	P2M2T4EE2C
600			•		Clip	77	P2M1T4EE2CW	83	P2M2T4EE2CW
		41 12		Air pilot		67	P2M1T4PP	73	P2M2T4PP
		2 x 3/2 NC + NC	Solenoid	M8 Lockable	80	P2M1TDEE2C	94	P2M2TDEE2C	
Size	e 1	4 7 2	with exhaust check valves		Clip	80	P2M1TDEE2CW	94	P2M2TDEE2CW
13		₹ ₹3 ₹		Air pilot		70	P2M1TDPP	84	P2M2TDPP
			2 x 3/2 NO + NO	Solenoid	M8 Lockable	80	P2M1TCEE2C	94	P2M2TCEE2C
100		4 7 2	with exhaust check valves		Clip	80	P2M1TCEE2CW	94	P2M2TCEE2CW
No comp		**************************************		Air pilot		70	P2M1TCPP	84	P2M2TCPP
. H			2 x 3/2 NC + NO	Solenoid	M8 Lockable	80	P2M1TEEE2C	94	P2M2TEEE2C
4800			with exhaust check valves		Clip	80	P2M1TEEE2CW	94	P2M2TEEE2CW
		₹ 43 £		Air pilot		70	P2M1TEPP	84	P2M2TEPP
			2 x 4/2 Spring return	Solenoid	M8 Lockable	88	P2M1TJEE2C		
Size	e 2	2 7 2	with exhaust check valves		Clip	88	P2M1TJEE2CW		
		4 × V3 × 4		Air pilot	'	78	P2M1TJPP		
			3/2 NC	Solenoid	M8 Lockable	76	P2M1T3ES2C	90	P2M2T3ES2C
1		4	with exhaust check valves		Clip	76	P2M1T3ES2CW	90	P2M2T3ES2CW
9,		₹3		Air pilot	'	71	P2M1T3PS	70	P2M2T3PS
			4/3 Centre exhaust	Solenoid	M8 Lockable	80	P2M1TGEE2C	94	P2M2TGEE2C
			2 x 3/2 NC + NC		Clip	80	P2M1TGEE2CW	94	P2M2TGEE2CW
-		* 	without exhaust check valves	Air pilot		70	P2M1TGPP	84	P2M2TGPP

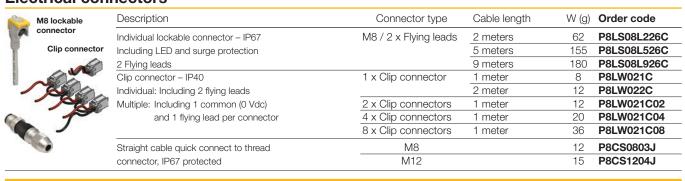
Island head and intermediate module sets

Valve Modules				Size 2
		Description	W (g)	Order code
	refile	Valve island pneumatic head and tail module set	64	P2M2HXT01
P2M2HXT01	P2M2BXT0A	Valve island intermediate supply module with a set of 4 configuration plates	64	P2M2BXT0A

Clip-On pneumatic connectors *

alve Modules				Size 1		Size 2
	Description	Tube OD	W (g)	Order code	W (g)	Order code
	Straight connector	G1/8"	2	FMDG1-1		
		4 mm	2	FMD04-1		
		6 mm	3	FMD06-1	3	FMD06-2
		8 mm			4	FMD08-2
		10 mm			5	FMD10-2
_		12 mm			6	FMD12-2
	Elbow connector	G1/8"	3	CMDG1-1		
		4 mm	3	CMD04-1		
		6 mm	5	CMD06-1	5	CMD06-2
		8 mm			6	CMD08-2
		10 mm			7	CMD10-2
		12 mm			8	CMD12-2
* Fittings and plugs pack quantity: 10	Silencer			•	5	MMDVA2
	Plug		3	PMDXX1	5	PMDXX2

Electrical connectors





Stand-Alone Valve Modules: S series

Very useful to control isolated cylinders, these stand-alone valves module are compact and easy to mount on the machines with neat electrical and pneumatic connections.

As an alternative to electrical controls, valves with air pilots are also available, to be controlled by individual pneumatic signals.

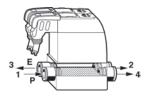


Valve functions

The following page shows all valve sizes and functions and, for each valve size, a choice of clipon pneumatic connectors: tubing size, straight, elbow etc."

Valve main connections

- Outlets to cylinders (ports 2 and 4) on one side.
- Supply P (port 1) and exhaust E (port 3) on the other side. At port 3, exhaust may be collected or receive a clip-on muffler.



Valve mounting

All valves may be mounted either with side screws or with their integrated retractable brackets.

Side screw mounting



The brackets are then retracted.

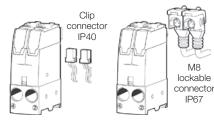
Optional foot mounting



The brackets are then extended.

Valve pilot connections

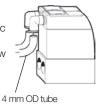
1- Solenoid valve modules



In its IP40 version, each solenoid shows Clip connection integrating LED and voltage surge protection. The clip connector with flying leads may be ordered separately with independent or interconnected common. In its IP67 version, each solenoid shows a M8 connection. Lockable connectors, IP67 protected, with LED voltage surge protection and flying lead cable may be ordered for the required length.

2- Air pilot valve modules

No connector has to be ordered: each pneumatic pilot port includes its integrated movable elbow 4 mm OD tube push-in connector.



Modules and island ordering

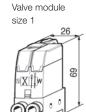
Choice between 2 approaches:

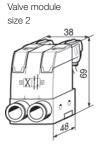
1 - Basic modules ordering:

The following page shows these modules supplied without connector, together with the choice of clip-on connectors separately supplied (10 units packs). This approach gives the maximum flexibility.

2 - Complete modules ordering:

Page 28 shows the ordering chart for modules supplied with their pneumatic and electrical connectors and muffler.







Basic modules (without connector)

Valve Modules						Size 1		Size 2
Size 1	Symbol	Description	Actuator	Pilot connector	W (g)	Order code	W (g)	Order code
Size	732 71 12 7 1 1 1 1	4/2 Spring return	Solenoid	M8 Lockable	72	P2M1S4ES2C	78	P2M2S4ES2C
FIFE	4 12			Clip	72	P2M1S4ES2CW	78	P2M2S4ES2CW
AND AND A			Air pilot		67	P2M1S4PS	73	P2M2S4PS
60	34 7 1	4/2 Double pilot	Solenoid	M8 Lockable	87	P2M1S4EE2C	93	P2M2S4EE2C
	- A +2			Clip	87	P2M1S4EE2CW	93	P2M2S4EE2CW
			Air pilot		77	P2M1S4PP	73	P2M2S4PP
		2 x 3/2 NC + NC	Solenoid	M8 Lockable	85	P2M1SDEE2C	91	P2M2SDEE2C
	4 3 2	with exhaust check valves		Clip	85	P2M1SDEE2CW	91	P2M2SDEE2CW
			Air pilot	·	75	P2M1SDPP	81	P2M2SDPP
Moduflex System	1	2 x 3/2 NO + NO	Solenoid	M8 Lockable	85	P2M1SCEE2C	91	P2M2SCEE2C
	4 73 2	with exhaust check valves		Clip	85	P2M1SCEE2CW	91	P2M2SCEE2CW
			Air pilot		75	P2M1SCPP	81	P2M2SCPP
Size 2	1	2 x 3/2 NC + NO	Solenoid	M8 Lockable	85	P2M1SEEE2C	91	P2M2SEEE2C
	4 2 3 2	with exhaust check valves		Clip	85	P2M1SEEE2CW	91	P2M2SEEE2CW
11			Air pilot		75	P2M1SEPP	81	P2M2SEPP
		3/2 NC	Solenoid	M8 Lockable	80	P2M1S3ES2C	86	P2M2S3ES2C
The second second	4 3	with exhaust check valves		Clip	80	P2M1S3ES2CW	86	P2M2S3ES2CW
1000			Air pilot		70	P2M1S3PS	76	P2M2S3PS
		4/3 Centre exhaust	Solenoid	M8 Lockable	85	P2M1SGEE2C	91	P2M2SGEE2C
	4 7 2 \$\sqrt{3}\sqrt{2}	2 x 3/2 NC + NC		Clip	85	P2M1SGEE2CW	91	P2M2SGEE2CW
		without exhaust check valves	Air pilot	·	75	P2M1SGPP	81	P2M2SGPP

Clip-On pneumatic connectors *

alve Modules				Size 1		Size 2
	Description	Tube OD	W (g)	Order code	W (g)	Order code
	Straight connector	G1/8"	2	FMDG1-1		
		4 mm	2	FMD04-1		
		6 mm	3	FMD06-1	3	FMD06-2
		8 mm			4	FMD08-2
		10 mm			5	FMD10-2
		12 mm			6	FMD12-2
	Elbow connector	G1/8"	3	CMDG1-1		
		4 mm	3	CMD04-1		
		6 mm	5	CMD06-1	5	CMD06-2
		8 mm			6	CMD08-2
		10 mm			7	CMD10-2
		12 mm			8	CMD12-2
	Silencer		3	MMDVA1	5	MMDVA2
	Plug		3	PMDXX1	5	PMDXX2

^{*} Fittings and plugs pack quantity: 10

Electrical connectors



Description	Connector type	Cable length	W (g)	Order code
Individual lockable connector – IP67	M8 / 2 x Flying leads	2 meters	62	P8LS08L226C
Including LED and surge protection		5 meters	155	P8LS08L526C
2 Flying leads		9 meters	180	P8LS08L926C
Clip connector – IP40	1 x Clip connector	1 meter	8	P8LW021C
Individual: Including 2 flying leads		2 meter	12	P8LW022C
Multiple: Including 1 common (0 Vdc)	2 x Clip connectors	1 meter	12	P8LW021C02
and 1 flying lead per connector	4 x Clip connectors	1 meter	20	P8LW021C04
	8 x Clip connectors	1 meter	36	P8LW021C08
Straight cable quick connect to thread	M8		12	P8CS0803J
connector, IP67 protected	M12		15	P8CS1204J



Peripheral Valve Modules: P series

Four additional peripheral modules complete the valve system in order to facilitate the installation of specific cylinder controls:

- Dual flow control, for cylinder speed adjusting;
- Dual pilot operated check valve, for cylinder positioning;
- Pressure regulator, for cylinder thrust adjusting;
- Vacuum generator, for vacuum pad controls.









Module function selection

Dual flow control

By controlling the exhaust flows of a double acting cylinder, this module can adjust both speeds: forwards and backwards.



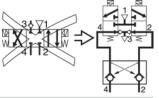


Dual pilot operated check valve

Combined with a double 3/2~NC+NC valve, this module will block flows and stop cylinder movement as soon as the valve outputs are both exhausted. Better than a 3 position closed centre valve, it provides accurate positioning when mounted close to the cylinder.





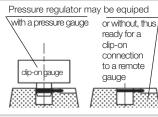


Pressure regulator

The thrust developed by a cylinder often requires adjustment by controlling the pressure to the front or back of the piston. This pressure regulator module enables manual adjustment of pressure on one side of the piston, with visual indication provided by the pressure gauge.





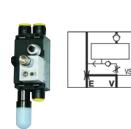


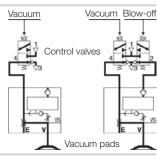
Vacuum generator

This multi-purpose module controls vacuum pads with a choice between two basics schematics:

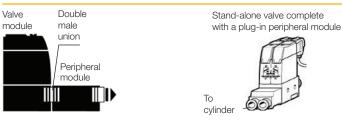
- Controlled with only one 3/2 NC valve, the vacuum generator provides vacuum to the pads during valve actuation and then blow-off supplied from an integrated chamber.
- Controlled with a double 3/2 NC + NC, the vacuum generator provides vacuum during the first valve actuation, and then strong blow-off from the second valve.

Integrated blow-off flow controller. Optional plug-in vacuum sensor.





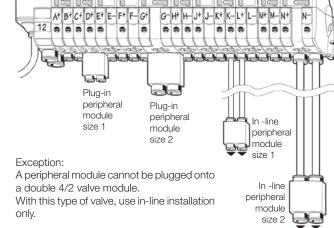
Module installation selection



Peripheral modules may either be mounted:

- Plugged into the valve module through double male unions;
- Or in line, close to the cylinder to control it better.







Basic peripheral modules (without connector)

Peripheral Modules						Size 1		Size 2
- 8	Symbol	Description			Weight (g)	Order code	Weight (g)	Order code
		Dual flow control			50	P2M1PXFA	50	P2M2PXFA
8		Dual P.O. check valve			50	P2M1PXCA	50	P2M2PXCA
		Pressure regulator	Pressure range	Gauge				
	₽ . T ₩		0 - 2 bar	0 - 4 bar	135	P2M1PXSR	135	P2M2PXSR
•				Without	105	P2M1PXST	165	P2M2PXST
			0 - 4 bar	0 - 7 bar	135	P2M1PXSM	135	P2M2PXSM
				Without	105	P2M1PXSL	165	P2M2PXSL
3			0 - 8 bar	0 - 11 bar	135	P2M1PXSG	135	P2M2PXSG
				Without	105	P2M1PXSN	165	P2M2PXSN
Mary 1		90% Vacuum generato	r		30	P2M1PXVA		

Clip-On pneumatic connectors *

Valve Modules				Size 1		Size 2
	Description	Tube OD	Weight (g)	Order code	Weight (g)	Order code
	Straight connector	G1/8"	2	FMDG1-1		
		4 mm	2	FMD04-1		
		6 mm	3	FMD06-1	3	FMD06-2
		8 mm			4	FMD08-2
		10 mm			5	FMD10-2
		12 mm			6	FMD12-2
	Elbow connector	G1/8"	3	CMDG1-1		
		4 mm	3	CMD04-1		
		6 mm	5	CMD06-1	5	CMD06-2
		8 mm			6	CMD08-2
6		10 mm			7	CMD10-2
	_	12 mm			8	CMD12-2
	Double male union		5	HMDXX1	8	HMDXX2
	Silencer		3	MMDVA1		
	Plug		3	PMDXX1	5	PMDXX2

^{*} Fittings and plugs pack quantity: 10

Clip-on accessories

	Description	Connection	Pressure range	Weight (g)	Order code	
28.3	Clip-on pressure gauge	Clip-on	0 to 4 bar	30	P2M1K0GT	
1 1	for pressure regulator modules,		0 to 7 bar	30	P2M1K0GL	
	size 1 or size 2		0 to 11 bar	30	P2M1K0GN	
	Analog (1 - 5 Vdc) Vacuum Sensor	Diam. 4 mm tube	0 to -1 bar	25	MPS-V8T4-AG	
	Flying lead 2 meter cable	Diam. 6 mm tube	0 to -1 bar	25	MPS-V8T-AG	
1	Dig. PNP / Ana (4 - 20 mA) Vacuum Sensor 15 cm cable - M8 4 pin's connector	G 1/8" male	0 to -1 bar	45	MPS-V34G-PCI	



Complete module ordering, as compared to basic module ordering Complete modules Basic modules

Ordered from the following pages, the complete modules are supplied all equipped with their electrical and pneumatic connectors. Only one order line is necessary, and each module comes complete, with just the necessary chosen connectors.

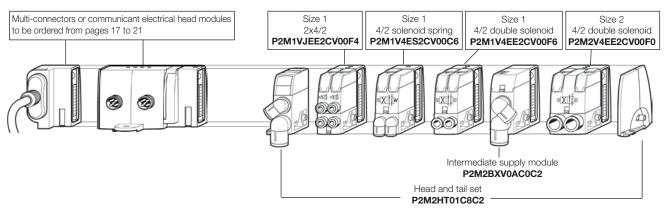


Ordered from the previous pages, the basic modules are to be equipped with their connectors. The clip-on assembly to the module is easy. The main advantage is flexibility: connector type and size may be chosen at the last moment, to better fit the machine needs.



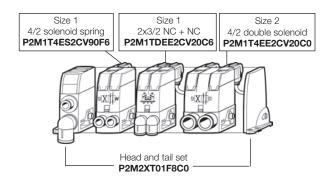
V series

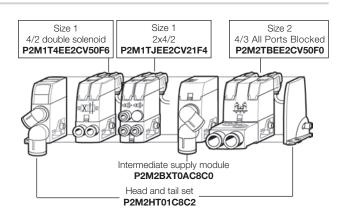
See opposite page for complete module order code chart



T series

See opposite page for complete module order code chart



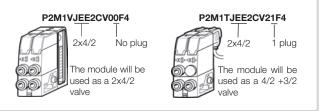


Special case: the 2 x 4/2 mini-module plug configuration

For micro-cylinders, this very compact 2 \times 4/2 module (order code. JEE) may also be used to obtain 3/2 valves, either Normally Closed or Normally Open.

To do so, the complete module may be supplied with plugs that may replace some of the plug-in connectors.

To order, use the top chart from opposite page.



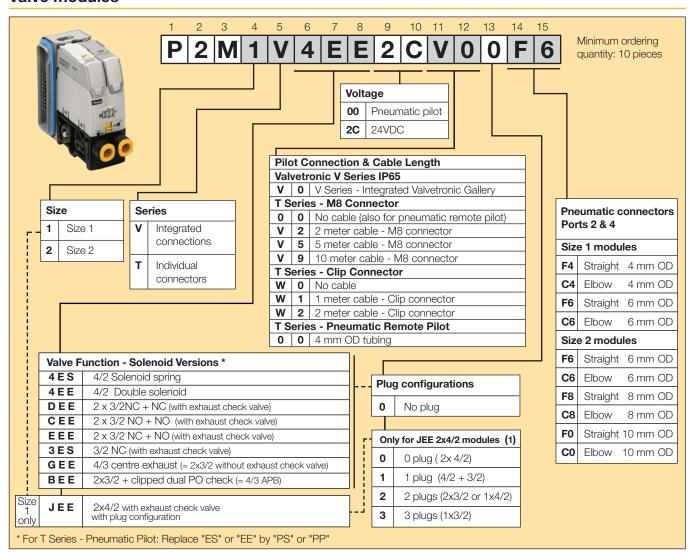
S and P series

See page 28 and 29 for complete module order code charts.

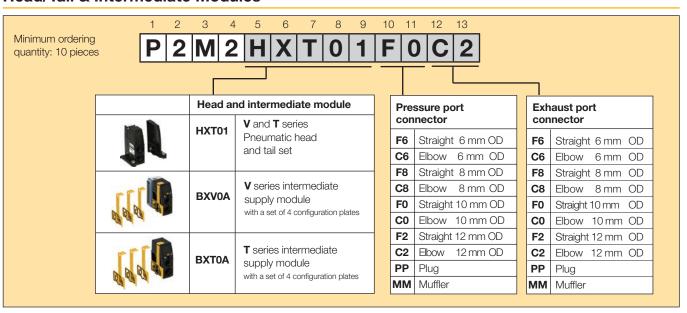


Complete Moduflex modules, equipped with their electrical and pneumatic connectors, may be ordered. To do so, use the below chart to define the complete module order codes.

Valve modules



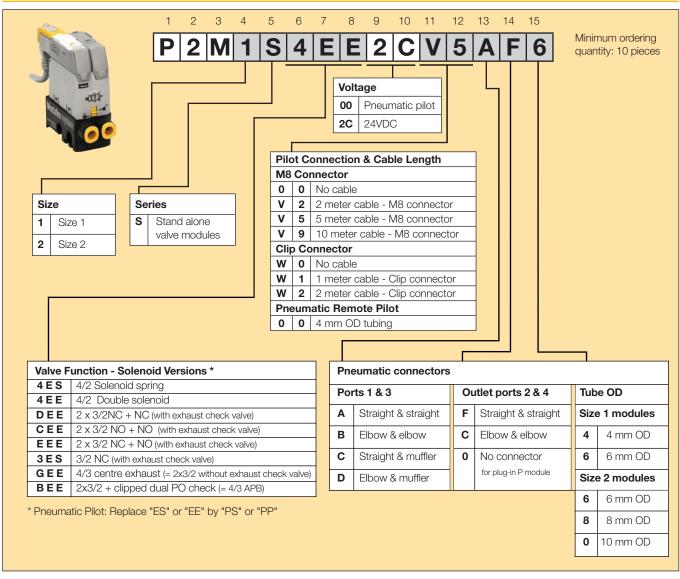
Head/Tail & Intermediate Modules

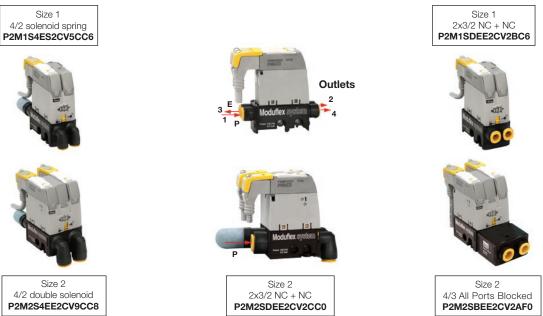




Complete Moduflex stand alone valves, equipped with their electrical and pneumatic connectors, may be ordered. To do so, use the below chart to define the complete module order codes.

Stand alone valve modules

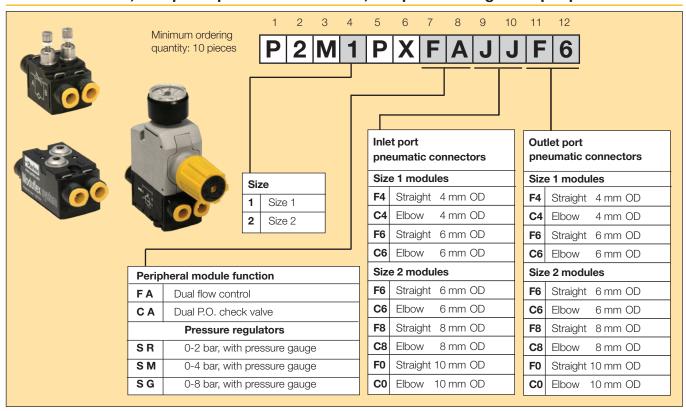




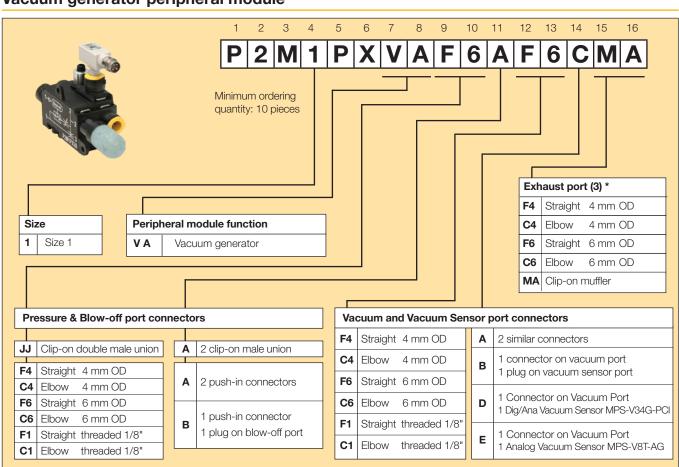


Complete Moduflex peripheral module, equipped with their pneumatic connectors, may be ordered. To do so, use the below chart to define the complete module order codes.

Dual flow control, dual pilot operated check valve, and pressure regulator peripheral modules



Vacuum generator peripheral module

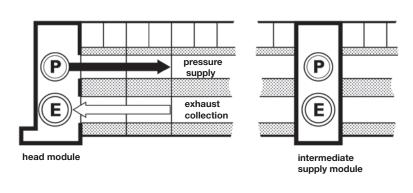




Island head module port sizing

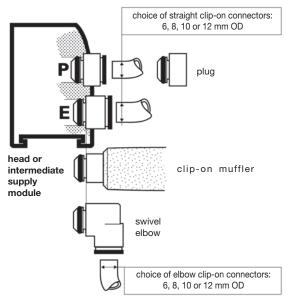
Moduflex is totally flexible: islands may have up to 19 valves for the V Series and is not limited for the T series with a choice of 3 valve sizes, depending on the required flow. Thus, each island has specific needs for the size of it pressure supply and its exhaust collection.

Choice of connections to an island P and E ports

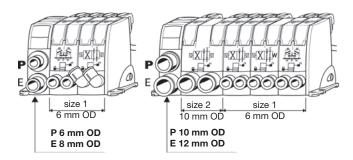


Valve island pressure supply and exhaust collection are connected onto the head module and, if flows require it, onto intermediate supply modules added into the island.

For this purpose, the choice of clip-on connectors is very open: from 6 to 12 mm OD tubing connectors, either straight or elbows. A clip-on muffler and a clip-on plug complete this offer.



Sizing recommendations



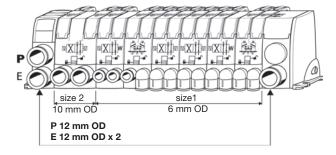
The 3 valve islands above present typical situations for sizing islands pressure supply and exhaust collection.

In a given island, valves do not deliver their flow at the same moment. Thus, the number of valves in an island is not the major factor to consider. More important is the size of the largest valve and of the largest output tubes to the cylinders.

ID section areas of standard tubings

2 x 4 mm: 3 mm² 5.5 x 8 mm: 24 mm² 10 x12 mm: 80 mm² 2.7 x 4 mm: 6 mm² 6 x 8 mm: 28 mm²

4 x 6 mm: 12 mm² 7 x 10 mm: 40 mm² muffler: 100 mm² 8 x 10 mm: 50 mm² equivalent



We would recommend the following:

- air supply connection at least equivalent to largest output tube to cylinders;
- exhaust collection at least twice the section area of the largest output tube to cylinders.

For islands with high flows, the following options are possible:

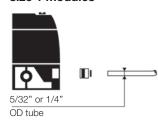
- use tubes up to 12 mm OD or mufflers providing exhaust collection is not necessary;
- provide additional P and/or E connection ports by inclusion of intermediate supply modules, thus keeping tube size small.

At the machine commissioning stage, the supply and exhaust connections can be easily modified until the required performance is achieved.



Recommendations for building machines with imperial OD tubes (US usual standard)

size 1 modules



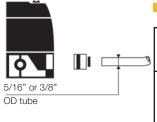
Moduflex is a global product available in the US with the two standards that are commonly used in this country:

- metric OD tubes with the metric connectors shown in this catalogue,
- imperial OD tubes with specific connectors for the US.

Machine builders exporting to the US may propose to their clients one of the following solutions.

- Machines equipped with Moduflex components connected with metric tubes found in this catalogue. Parker will provide products locally for maintenance.
- Or machines equipped with Moduflex components connected with imperial size OD tubes. In this case, use the following procedure to order Moduflex and to build the machine.

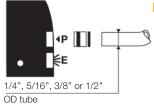
size 2 modules



Imperial OD tube and metric OD tube comparison

	metric standard	imperial US standard	metric equivalent	Moduflex clip-on connectors			
3	tube OD	tube OD					
	4 mm	5/32"	4 mm	imperial and metric connectors identical			
	6 mm	1/4"	6,35 mm	specific imperial connector			
	8 mm	5/16"	8 mm	imperial and metric connectors identical			
	10 mm	3/8"	9,53 mm	specific imperial connector			
	12 mm 1/2"		12,7 mm	specific imperial connector			

head and intermediate island modules



FMD04-1

Moduflex selection for imperial size OD tubes

Such components will easily be obtained with the following procedure:

- 1 select the required basic modules (with no connector).
- 2 Select from the list below the clip-on connectors for the required imperial OD tubes.
 - Push-in the connectors into the basic modules
- 3 ports in order to obtain complete modules.

FMD07-1		pneumatic connectors for size 1 modules			elbow version Pack Weight Order Quant. (g) per unit code			straight version Weight Order (g) per unit code	
CMD04-1		clip-on tube push-in connector	5/32"= 4 mm OD	10	5 C	MD04-1	2	FMD04-1	
CMD07-1	6		1/4"OD	10	5 (CMD07-1	3	FMD07-1	



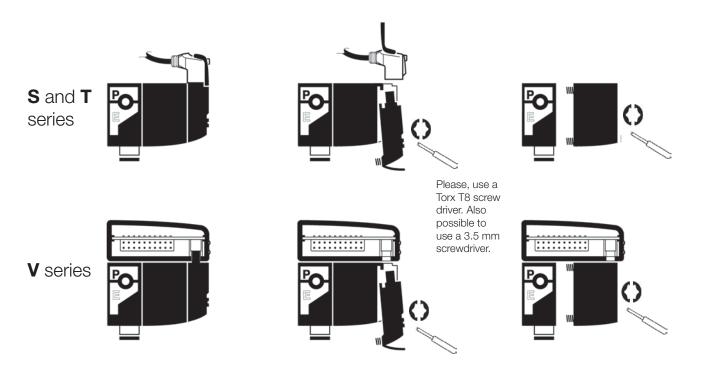
pneumatic connectors for size head and intermediate island n		Pack Quant.	Weig	ow version ght Order erunit code	Wei	aight version ght Order perunit code
clip-on tube push-in connector	1/4"OD	10	5	CMD07-2	3	FMD07-2
	5/16"= 8 mm OD	10	6	CMD08-2	4	FMD08-2
	3/8"OD	10	7	CMD09-2	5	FMD09-2
	1/2"OD	10	8	CMD13-2	6	FMD13-2



Maintenance procedure

The latest generations of compact pneumatic valves have a life expectancy which generally exceeds the equipment they control. Therefore, although maintenance is seldom required,

when necessary the solenoid pilot, valve or connector can be easily replaced without removing the island base, as shown below.



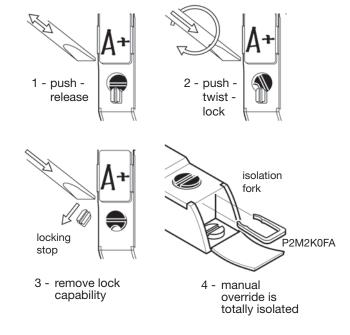
With only one universal solenoid pilot for all configurations, maintenance is simple

24V DC is now a global standard for all machines.

The Moduflex 24V DC unique solenoid pilot is supplied with the multi-function manual override that can be adapted to all requirements, as explained by the drawings.

Because all Moduflex valve and island configurations are supplied with this unique solenoid pilot, maintenance operations remain very simple.

Multi-function adaptable manual override



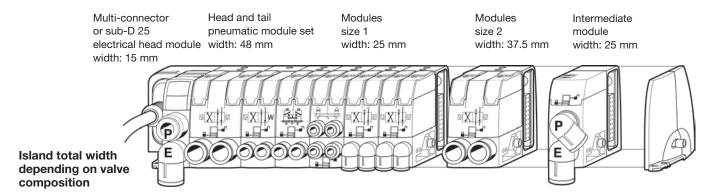


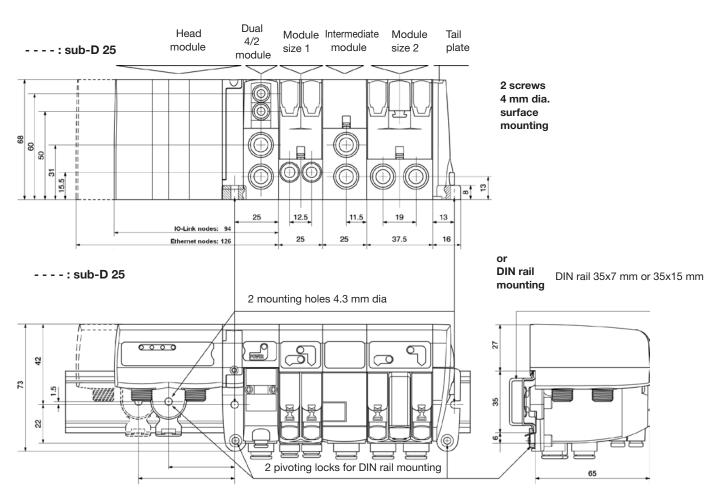
Maintenance components

	Valve pilot	Connection	Weight (g)	Order code
P2D8V32C5	Solenoid pilot	M8 - 3 Pins - IP67	15	P2D8V32C5
		Clip connector - 2 pins - IP40 With LED and voltage surge supression	15	P2D2W3226C5
	Pneumatic pilot	4 mm OD tubing push-in elbow fitting	10	P2M2K0PA
P2M2K0PA	size 1 valve mo	dules without solenoid pilot and without sub-base	Weight (g)	Order code
	4/2	monostable	26	P2M1X4ES
		bistable	25	P2M1X4EE
1	3/2	double NC + NC	28	P2M1XDEE
		double NO + NO	28	P2M1XCEE
		double NC + NO	28	P2M1XEEE
2		single NC	25	P2M1X3ES
/1X4EE	4/3 CE	double 3/2 NC + NC without exhaust check valve	28	P2M1XGEE
	size 2 valve mo	dules without solenoid pilot and without sub-base	Weight (g)	Order code
	4/2	monostable	28	P2M2X4ES
		bistable	30	P2M2X4EE
	3/2	double NC + NC	32	P2M2XDEE
A PORT		double NO + NO	32	P2M2XCEE
a XIII		double NC + NO	32	P2M2XEEE
2-4		single NC	28	P2M2X3ES
OMOV4EE	4/3 CE	double 3/2 NC + NC without exhaust check valve	32	P2M2XGEE
P2M2X4EE	Sat of maintan	anno narte	Woight (a)	Order code
	Set of maintena Seals	Set of various seals: 3 under solenoid pilot seals 3 inter island base seals 2 for dual 4/2 valves (2 parts) 2 for single and dual 3/2 – Size 1 – valves 2 for single 4/2 – Size 1 – valves 2 for size 2 valves (all functions)	Weight (g) 8	P2M2K0JA
A FEB	Fitting locking clip		10	P2M2K0CA
Man.	Manual override	forks Set of 10 isolating forks for	8	P2M2K0FA



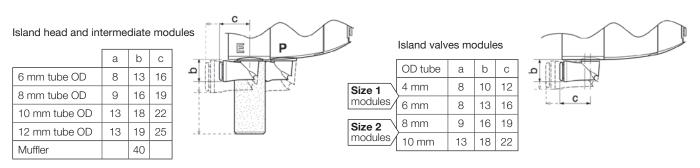
1 - Multi-connector or sub-D 25 valve island





2 pivoting locks for DIN rail mounting

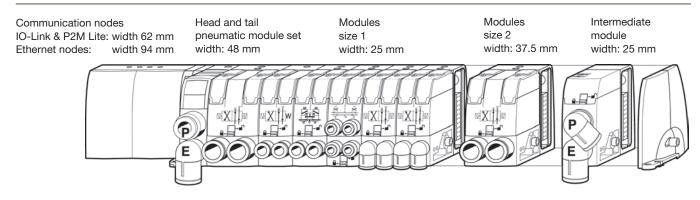
Special case: 4/3 closed centre function within island version: Add the dimensions of the dual P.O. check valve module plugged into the island. See pages 39 and 40 for dimensions.



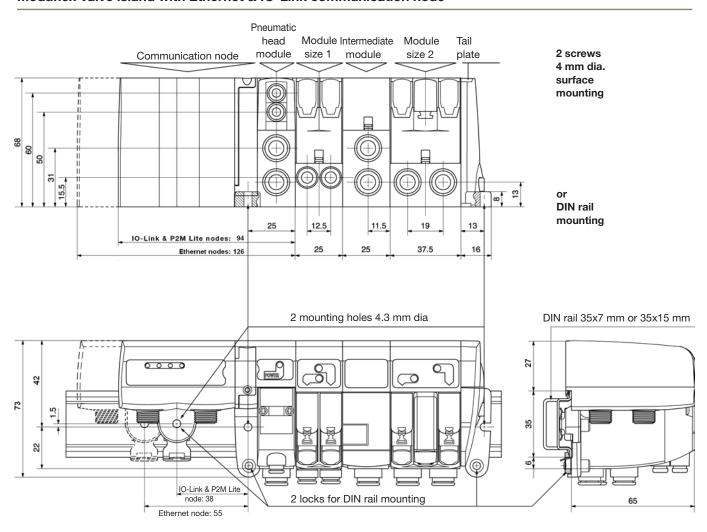


2 - Industrial Communication Valve Islands

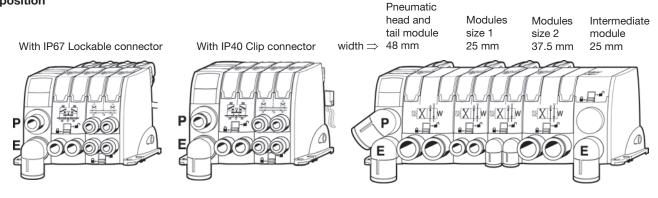
Island total width depending on valve composition

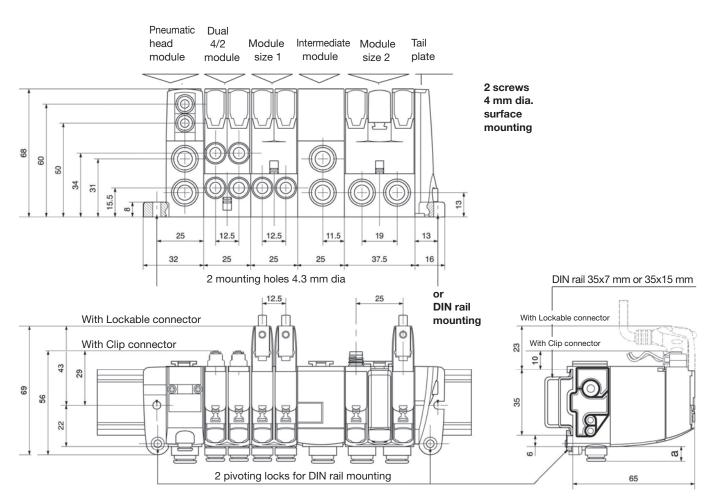


Moduflex Valve island with Ethernet & IO-Link communication node



Island total width depending on valve composition

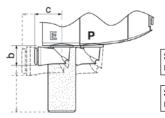




Special case: 4/3 closed centre function within island version: Add the dimensions of the dual P.O. check valve module plugged into the island.

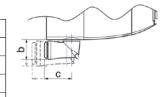
Island head and intermediate modules

	а	b	С
6 mm tube OD	8	13	16
8 mm tube OD	9	16	19
10 mm tube OD	13	18	22
12 mm tube OD	13	19	25
Muffler		40	



Island valves modules

	OD tube	а	b	С
Size 1	4 mm	8	10	12
modules	6 mm	8	13	16
Size 2	8 mm	9	16	19
modules	10 mm	13	18	22



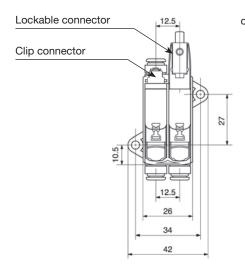


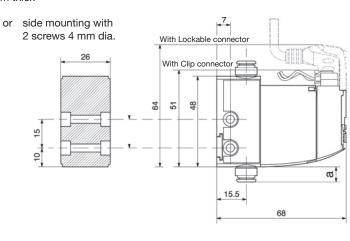
Moduflex Valve System - P2M

Stand-alone valve size 1

surface mounting with screws 4 mm dia. into retractable brackets 3 mm thick

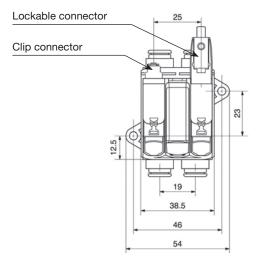


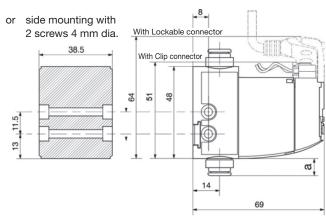




Stand-alone valve size 2



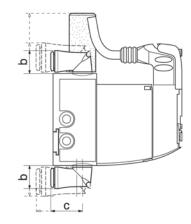




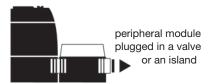
Dimensions and mountings of the stand-alone valves 4/2, double and single 3/2, 4/3 vented centre and 4/3 pressure centre.

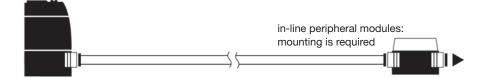
Special case: 4/3 closed centre. Add the dual P.O. check valve module that has been plugged in the basic valve.

		а	b	С
	4 mm tube OD	8	10	12
Size 1 \ modules /	6 mm tube OD	8	13	16
modules	Muffler		31	
	8 mm tube OD	9	16	19
Size 2 \ modules /	10 mm tube OD	13	18	22
modulos	Muffler		40	

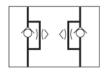


Reminder: peripheral modules may either be plugged in the valve output ports or mounted in line separate from the valve

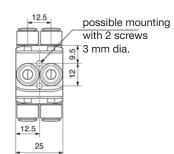


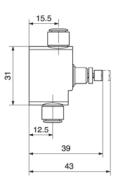


Dual flow control module size 1



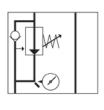






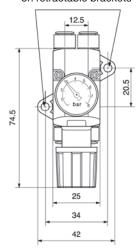
Pressure regulation module size 1

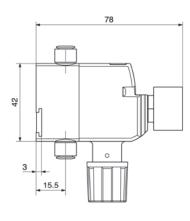
- with gauge



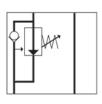


mounting with 2 screws 4 mm dia. on retractable brackets





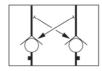
- without gauge



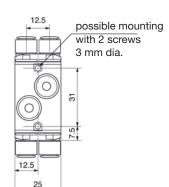


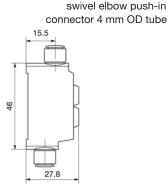
70

Dual P.O. check valve module size 1

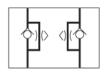




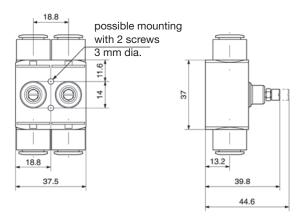




Dual flow control module size 2

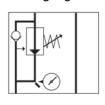






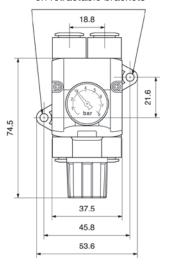
Pressure regulation module size 2

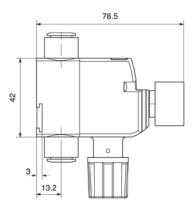
- with gauge





mounting with 2 screws 4 mm dia. on retractable brackets



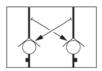


- without gauge

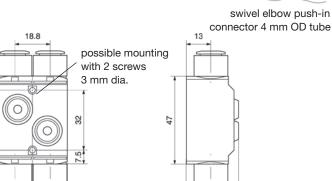


70

Dual P.O. check valve module size 2







27.8

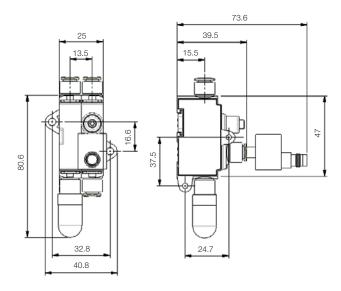
18.8

37.5

Vacuum generator module

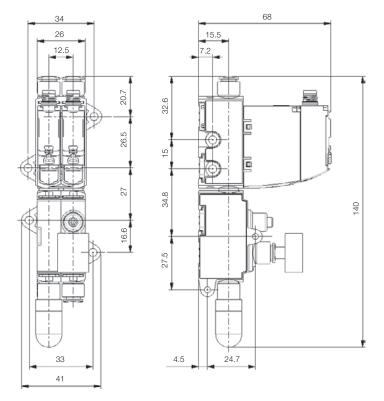
In-line

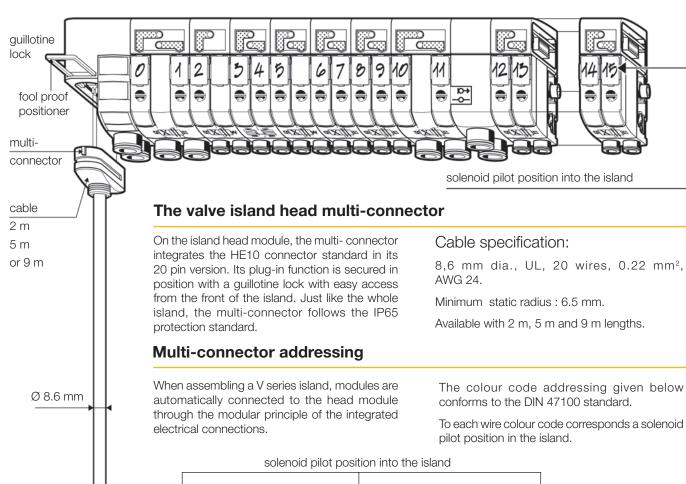




With Moduflex valve

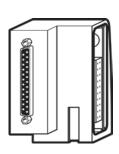




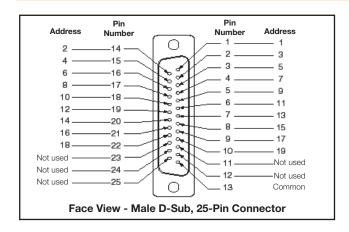


	colour code		colour code			colour code		
('	pink - brown		white - green	14		grey	
-	1 white - pink		8	red - blue	15	5	yellow	
2	2 grey - brown		9	grey - pink	16	6	green	
3	3 white - grey	′	10	violet	17	7	brown	
	4 yellow - bro	wn	11	red	18	3	white	
5	5 white - yello	w	12	blue				
6	6 brown - green		13	pink	CC	ommor	า:	black

Sub-D 25 addressing



20 wires 0.22 mm² AWG 24





Industrial Ethernet node connection and diagnostic functions

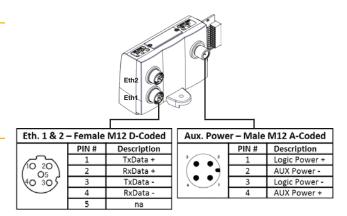
Ethernet Ports and Auxiliary Power Connection

Ethernet ports: 2 x Standard Female M12 D-Coded – 5 pins Auxiliary Power: Standard Male M12 A-Coded – 4 pins.

Usage of standard manufactured cables available from your usual electrical supplier is recommended.

Configuration File

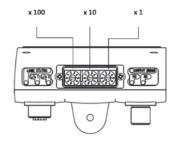
The configuration files can be download from the product web page: www.parker.com/pde/P2M_IE.



IP Address Setting

The IP-Address of the device can be assigned via:

• Rotary Switches, DHCP, Web page, Ipconfig Tool or TCP/IP Interface Object, depending on protocol version:



Description		Profinet IO Modbus TCP/IP	PowerLink	EtherCAT	CC-Link IE
IP-Address setting stored into the NV-memory	ory of the P2M node	000	000	N/A	000
IP-Address setting determined by the 3 rota	ary switches:				
 IP Address: 19 Subnet Mask: 28 Default Gateway for 001: 19 Default Gateway for 002 - 254: 19 	001 – 254	001 – 239	N/A	001 – 120	
The device will obtains its address via DHC	P	888	N/A	N/A	N/A
Reset to factory status		999	999	999	999
Invalid. The module will not start (see Local Visual Diagnostic section for details)		All others	All others	All others	All others

EtherNet/IP

Case of Use with SAFE Power Source for Valve Control

The P2M Industrial Ethernet 24 DO nodes can support a SAFE OSSD power source for valve control (Aux + / Aux –). It can also be connected in both PP or PM mode.

For further details, please refer to the Ethernet node user manual available from the product web page:

www.parker.com/pde/P2M_IE

Local and network diagnostic functions

Local diagnostic

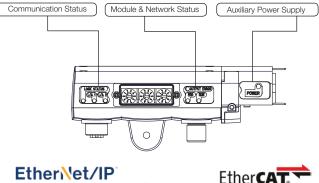
The P2M Industrial Ethernet node offers a local diagnostic via 7 LED's. Pls refer to user manual with interpretation given by this table.

Network diagnostic

The P2M Industrial Ethernet node offers additional useful module status information:

- Pilot overload or short circuit
- Auxiliary Voltage out of tolerance
- Cycle counter for every pilot
- Module temperature
- ..

For deeper information on product technical information and a complete interpretation of node diagnostic functionalities, please refer to the User Manual available from the product web page: www/parker.com/pde/P2M_IE











Industrial Ethernet Lite Node connections and diagnostic functions

Ethernet and Power Connections

Network Communication Ports:

2 x Standard RJ45 Female connectors

Usage of standard manufactured cables available from your usual electrical supplier is recommended.

Power Supply:

Standard 3-Pin' Male Connector - 3,81 mm pitch

Working mode selector:

DIP-switch

Configuration Files

The configuration files can be download from the product web page: www.parker.com/pde/P2M_IE

Eth 1 / EtherCAT IN Eth 2 / EtherCAT OUT Working mode selector DIP-switch Reset to factory Normal Operation Power Supply Connector 3,81 mm pitch O Vdc Ouput Enable 24 Vdc

IP Address Setting

For both Profinet IO and EtherNet/IP protocols, the P2M Lite 24DO Node is by default in DHCP mode. The module must be assigned to a static IP-Address in order to be controlled via network. Please, refer to the user manual for IP-Address assignment process.

Local and Network diagnostic functions

Local diagnostic

The P2M Lite 24DO node offers a local diagnostic via 9 LED's. Please refer to user manual with interpretation table.

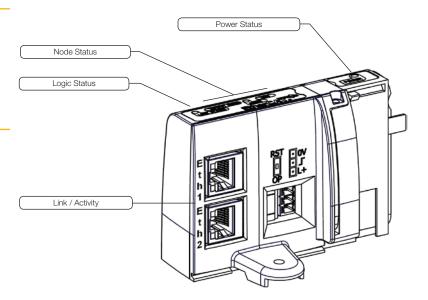
Network diagnostic

The P2M Lite 24DO Node offers additional useful module status information:

- · Pilot overload or short circuit
- Power Voltage out of tolerance
- Cycle counter for every pilot
- Module temperature
- ...

For detailed technical information on the P2M Lite 24DO Node and a complete interpretation of node's diagnostic functionalities, please refer to the User Manual available from the product web page:

www.parker.com/pde/P2M_IE











IO-Link module connection and diagnostic functions



IO-Link module connection

Standard male M12 - type A

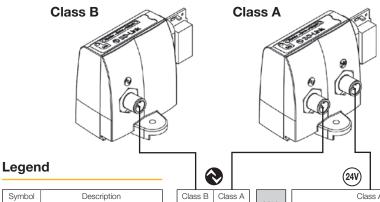
Usage of standard manufactured cables available from your usual electrical supplier is recommended.

Note: Auxiliary power for solenoids can be wired separately allowing users to turn outputs off while the communications remains active.

Configuration

IODD file can be downloaded from IODD Finder or the Moduflex web site:

https://ioddfinder.io-link.com www.parker.com/pde/io-link



5 Pin's P2M...B.

> L+ Aux +

> > L-

C/Q

Aux -

Symbol	Description
L+	IO-Link Power Supply "+"
L-	IO-Link Power Supply "-"
C/Q	IO-Link communication
Aux +	Auxilliary Power Supply 24 Vdc
Aux -	Auxilliary Power Supply 0 Vdc

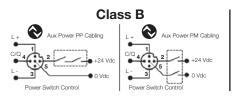
Class A		140		Class A						
3 Pin's		M12 Pin's 1 2 3 4 5			3 P	in's	5 Pin's			
P2MA		1 1110		P2MA13	P2MA43	P2MA42				
L+		1		Aux +	Not used	Not used				
-		2		-	-	Aux -				
L-		3		Aux -	Aux -	Not used				
C/Q		4		n.c.	Aux +	Aux +				
-		5		-	-	Not used				

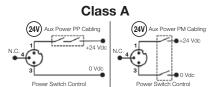
Case of use with SAFE cabling

The Moduflex IO-Link Module can be powered from a 24Vdc auxilliary source in PP or PM mode as grounds are isolated.

IO-Link nodes Class A & B -SPC version are compatible with SAFE OSSD power source for valve control (Aux + / Aux –).

For further details, please refer to the user manual N. 30048690201W05.





Shone here cabling for P2M2HBVL12400A13 / -SPC

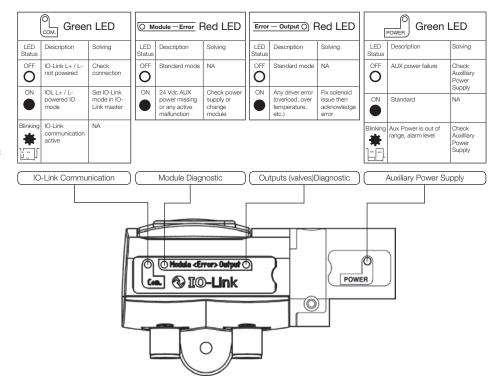
IO-Link module diagnostic functions

The P2M IO-Link node offers additional useful module status information:

- · Pilot overload or short circuit
- Auxiliary Voltage out of tolerance
- Cycle counter for every pilot
- Module temperature

For deeper information on product technical information and node diagnostic functionalities, please refer to the User Manual available from the product web page:

www.parker.com/pde/io-link



Moduflex Valve System Parker





Integrated connection industrial comms or multi-connector valve island



S series Stand alone valves

P series

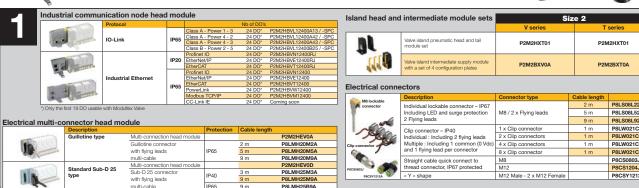
Peripheral modules



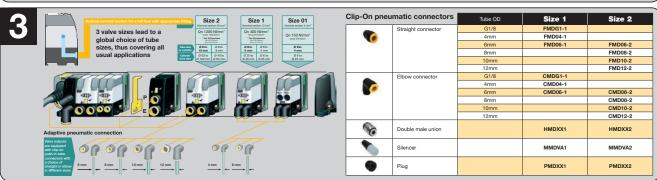












1	Basic perip	heral mod	ules (without co	nnector)		Size 1	Size 2	Clip-on accesso	ories			
4	åå h.d							Description	Connection	Pressure range		
	100	Dual flow control			P2M1PXFA	P2M2PXFA				0 to 4 bar	P2M1K0GT	
				Dual P.O. check valve				Clip-on pressure gauge for pressure regulator modules, size 1 or size 2	Clip-on	0 - 7 bar	P2M1K0GL	
			Dual P.O. check val			P2M1PXCA P2M2PXCA	P2M2PXCA				0 - 11 bar	P2M1K0GN
								7	Analog (1 - 5 Vdc) Vacuum Sensor Flying lead 2 m cable	4 mm tube	0 to -1 bar	MPS-V8T4-AG
	-	₹Tur	Pressure regulator	Pressure range	Gauge					6 mm tube	0 to -1 bar	MPS-V8T-AG
		\$.Im		0 - 2 bar	0 - 4 bar	P2M1PXSR	P2M2PXSR	400				
	100	II.⊘I			Without	P2M1PXST	ST P2M2PXST		Dig. PNP / Ana (4 - 20 mA) Vacuum Sensor 15 cm cable - M8 4 pin's connector	G1/8" male	0 to -1 bar	MPS-V34G-PCI
	100,000	u		0 - 4 bar	0 - 7 bar	P2M1PXSM	P2M2PXSM					
					Without	P2M1PXSL	P2M2PXSL		Connector			
				0 - 8 bar	0 - 11 bar	P2M1PXSG	P2M2PXSG					
	100				Without	P2M1PXSN	P2M2PXSN					同代制
	90% Vacuum generator		P2M1PXVA		wwv	v.parker.co	m/pd	le/p2n	n 🔯			



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