Moduflex Valve System - P2M   Moduflex V and T series complete module order codes

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
P	2	M	1	V	4	E	E	2	C	V	0	0	F	6

Minimum ordering quantity: 10 pieces

Voltage

00	Pneumatic pilot
2C	24VDC

Size

1	Size 1
2	Size 2

Series

V	Integrated connections
T	Individual connectors

Pilot Connection & Cable Length

Valvetronic V Series IP65		
V	0	V Series - Integrated Valvetronic Gallery
T Series - M8 Connector		
0	0	No cable (also for pneumatic remote pilot)
V	2	2 meter cable - M8 connector
V	5	5 meter cable - M8 connector
V	9	10 meter cable - M8 connector
T Series - Clip Connector		
W	0	No cable
W	1	1 meter cable - Clip connector
W	2	2 meter cable - Clip connector
T Series - Pneumatic Remote Pilot		
0	0	4 mm OD tubing

Pneumatic connectors Ports 2 & 4

Size 1 modules		
F4	Straight	4 mm OD
C4	Elbow	4 mm OD
F6	Straight	6 mm OD
C6	Elbow	6 mm OD
Size 2 modules		
F6	Straight	6 mm OD
C6	Elbow	6 mm OD
F8	Straight	8 mm OD
C8	Elbow	8 mm OD
F0	Straight	10 mm OD
C0	Elbow	10 mm OD

Valve Function - Solenoid Versions *

4 E S	4/2 Solenoid spring
4 E E	4/2 Double solenoid
D E E	2 x 3/2NC + NC (with exhaust check valve)
C E E	2 x 3/2 NO + NO (with exhaust check valve)
E E E	2 x 3/2 NC + NO (with exhaust check valve)
3 E S	3/2 NC (with exhaust check valve)
G E E	4/3 centre exhaust (= 2x3/2 without exhaust check valve)
B E E	2x3/2 + clipped dual PO check (= 4/3 APB)
Size 1 only **J E E**	2x4/2 with exhaust check valve with plug configuration

Plug configurations

0	No plug

Only for JEE 2x4/2 modules (1)	
0	0 plug (2x 4/2)
1	1 plug (4/2 + 3/2)
2	2 plugs (2x3/2 or 1x4/2)
3	3 plugs (1x3/2)

* For T Series - Pneumatic Pilot: Replace "ES" or "EE" by "PS" or "PP"

Head/Tail & Intermediate Modules

Minimum ordering quantity: 10 pieces

1	2	3	4	5	6	7	8	9	10	11	12	13
P	2	M	2	H	X	T	0	1	F	0	C	2

	Head and intermediate module
HXT01	**V** and **T** series Pneumatic head and tail set
BXV0A	**V** series intermediate supply module with a set of 4 configuration plates
BXT0A	**T** series intermediate supply module with a set of 4 configuration plates

Pressure port connector			**Exhaust port connector**		
F6	Straight	6 mm OD	F6	Straight	6 mm OD
C6	Elbow	6 mm OD	C6	Elbow	6 mm OD
F8	Straight	8 mm OD	F8	Straight	8 mm OD
C8	Elbow	8 mm OD	C8	Elbow	8 mm OD
F0	Straight	10 mm OD	F0	Straight	10 mm OD
C0	Elbow	10 mm OD	C0	Elbow	10 mm OD
F2	Straight	12 mm OD	F2	Straight	12 mm OD
C2	Elbow	12 mm OD	C2	Elbow	12 mm OD
PP	Plug		PP	Plug	
MM	Muffler		MM	Muffler	

Moduflex Valve System - P2M

Moduflex Valve complete module ordering

Complete module ordering, as compared to basic module ordering

Complete 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.
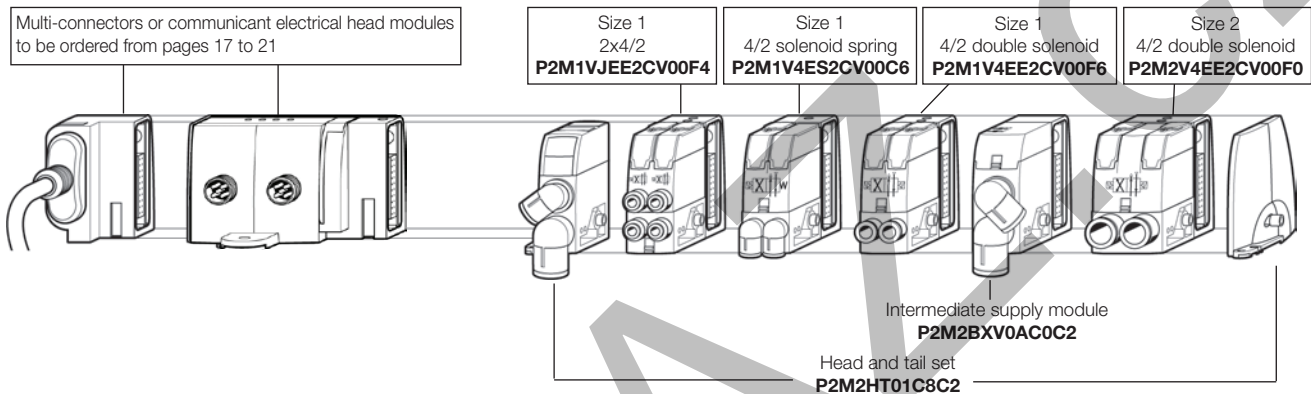
Basic modules

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.

Electrical clip-on connectors

Pneumatic clip-on push-in connectors

V series

See opposite page for complete module order code chart

Multi-connectors or communicant electrical head modules to be ordered from pages 17 to 21

| Size 1 2x4/2 **P2M1VJEE2CV00F4** | Size 1 4/2 solenoid spring **P2M1V4ES2CV00C6** | Size 1 4/2 double solenoid **P2M1V4EE2CV00F6** | Size 2 4/2 double solenoid **P2M2V4EE2CV00F0** |

Intermediate supply module
P2M2BXV0AC0C2

Head and tail set
P2M2HT01C8C2

T series

See opposite page for complete module order code chart

| Size 1 4/2 solenoid spring **P2M1T4ES2CV90F6** | Size 1 2x3/2 NC + NC **P2M1TDEE2CV20C6** | Size 2 4/2 double solenoid **P2M1T4EE2CV20C0** |

Head and tail set
P2M2XT01F8C0

| Size 1 4/2 double solenoid **P2M1T4EE2CV50F6** | Size 1 2x4/2 **P2M1TJEE2CV21F4** | Size 2 4/3 All Ports Blocked **P2M2TBEE2CV50F0** |

Intermediate supply module
P2M2BXT0AC8C0

Head and tail set
P2M2HT01C8C2

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

For micro-cylinders, this very compact 2 x 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.

P2M1VJEE2CV00F4

2x4/2   No plug

The module will be used as a 2x4/2 valve

P2M1TJEE2CV21F4

2x4/2   1 plug

The module will be used as a 4/2 +3/2 valve
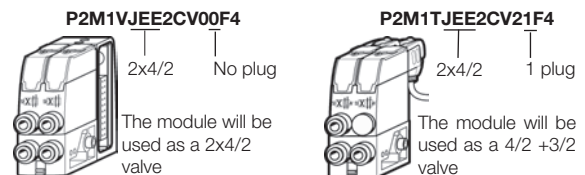
S and P series

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

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

1 - Solenoid valve modules

M8 lockable connector IP67

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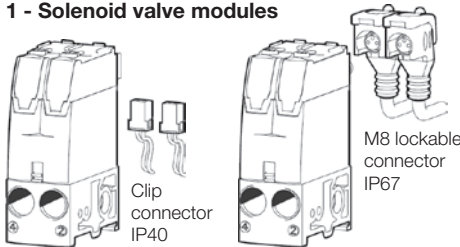
In its IP40 version, each solenoid shows Clip connection integrating LED and voltage surge protection. The clip connector with flying leads may be ordered separately with independent or interconnected common.
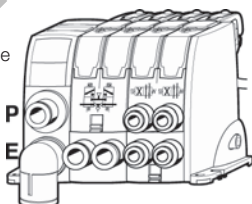
In its IP67 version, each solenoid shows a M8 connection. Lockable connectors, IP67 protected, with LED voltage surge protection and flying lead cable may be ordered for the required length.
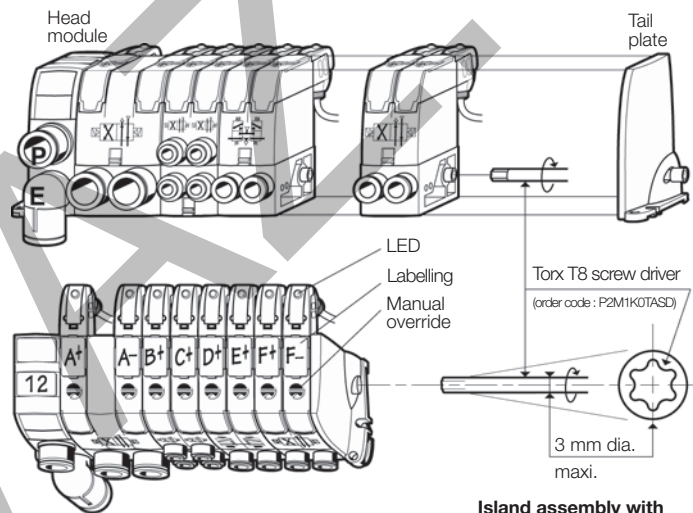
2 - Air pilot valve modules
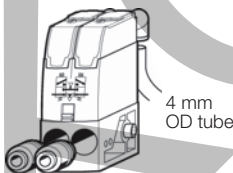
4 mm OD tube

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.

P
E

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.

Valve island assembly

Head module

Tail plate

P
E

Island mounting and marking for easy man / machine dialog

12   A⁺ A⁻ B⁺ C⁺ D⁺ E⁺ F⁺ F⁻

LED
Labelling
Manual override

Torx T8 screw driver
(order code : P2M1K0TASD)

3 mm dia.
maxi.

Island assembly with a single screw per module

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

3 - Assembled island ordering:
Page 30 shows the valve island configurator CD-Rom to specify a valve island that may be delivered assembled.

Typical T series hight flow island for both small and large cylinders.

Pneumatic head module: ▪ width: 32 mm	Valve module size 1: ▪ width: 25 mm	Valve module size 2: ▪ width: 37.5 mm	Intermediate module: ▪ width: 25 mm	Tail plate: ▪ width: 16 mm

P
E

P
E

69
44
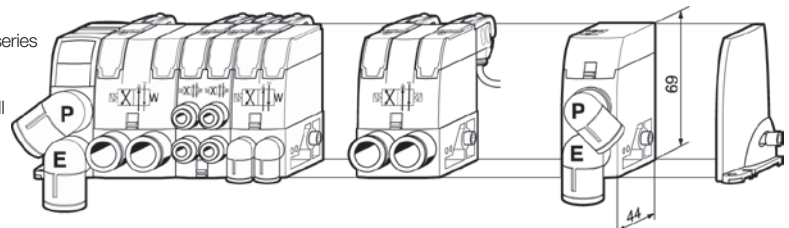
Typical T series islands combining different valve flows and functions

Moduflex Valve System - P2M
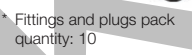
T series

Basic modules (without connector)

Valve Modules

		Symbol	Description	Actuator	Pilot connector	W (g)	Size 1 Order code	W (g)	Size 2 Order code
Size 1 Dual 4/2			4/2 Spring return	Solenoid	M8 Lockable	68	**P2M1T4ES2C**	74	**P2M2T4ES2C**
					Clip	68	**P2M1T4ES2CW**	74	**P2M2T4ES2CW**
				Air pilot		63	**P2M1T4PS**	69	**P2M2T4PS**
			4/2 Double pilot	Solenoid	M8 Lockable	77	**P2M1T4EE2C**	83	**P2M2T4EE2C**
					Clip	77	**P2M1T4EE2CW**	83	**P2M2T4EE2CW**
				Air pilot		67	**P2M1T4PP**	73	**P2M2T4PP**
Size 1			2 x 3/2 NC + NC with exhaust check valves	Solenoid	M8 Lockable	80	**P2M1TDEE2C**	94	**P2M2TDEE2C**
					Clip	80	**P2M1TDEE2CW**	94	**P2M2TDEE2CW**
				Air pilot		70	**P2M1TDPP**	84	**P2M2TDPP**
			2 x 3/2 NO + NO with exhaust check valves	Solenoid	M8 Lockable	80	**P2M1TCEE2C**	94	**P2M2TCEE2C**
					Clip	80	**P2M1TCEE2CW**	94	**P2M2TCEE2CW**
				Air pilot		70	**P2M1TCPP**	84	**P2M2TCPP**
			2 x 3/2 NC + NO with exhaust check valves	Solenoid	M8 Lockable	80	**P2M1TEEE2C**	94	**P2M2TEEE2C**
					Clip	80	**P2M1TEEE2CW**	94	**P2M2TEEE2CW**
				Air pilot		70	**P2M1TEPP**	84	**P2M2TEPP**
			2 x 4/2 Spring return with exhaust check valves	Solenoid	M8 Lockable	88	**P2M1TJEE2C**		
					Clip	88	**P2M1TJEE2CW**		
				Air pilot		78	**P2M1TJPP**		
			3/2 NC with exhaust check valves	Solenoid	M8 Lockable	76	**P2M1T3ES2C**	90	**P2M2T3ES2C**
					Clip	76	**P2M1T3ES2CW**	90	**P2M2T3ES2CW**
				Air pilot		71	**P2M1T3PS**	70	**P2M2T3PS**
Size 2			4/3 Centre exhaust 2 x 3/2 NC + NC without exhaust check valves	Solenoid	M8 Lockable	80	**P2M1TGEE2C**	94	**P2M2TGEE2C**
					Clip	80	**P2M1TGEE2CW**	94	**P2M2TGEE2CW**
				Air pilot		70	**P2M1TGPP**	84	**P2M2TGPP**

Island head and intermediate module sets

Valve Modules

	Description					Size 2 W (g)	Order code
	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 *

Valve Modules

	Description	Tube OD	W (g)	Size 1 Order code	W (g)	Size 2 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				5	**MMDVA2**
	Plug		3	**PMDXX1**	5	**PMDXX2**

* Fittings and plugs pack quantity: 10

Electrical connectors

	Description	Connector type	Cable length	W (g)	Order code
M8 lockable connector	Individual lockable connector – IP67	M8 / 2 x Flying leads	2 meters	62	**P8LS08L226C**
	Including LED and surge protection		5 meters	155	**P8LS08L526C**
Clip connector	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**