

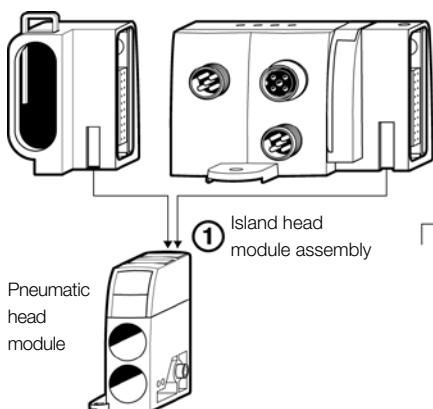
Integrated connections valve islands: V series

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



Valve island electrical head module:
multi-connector or field bus connection



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

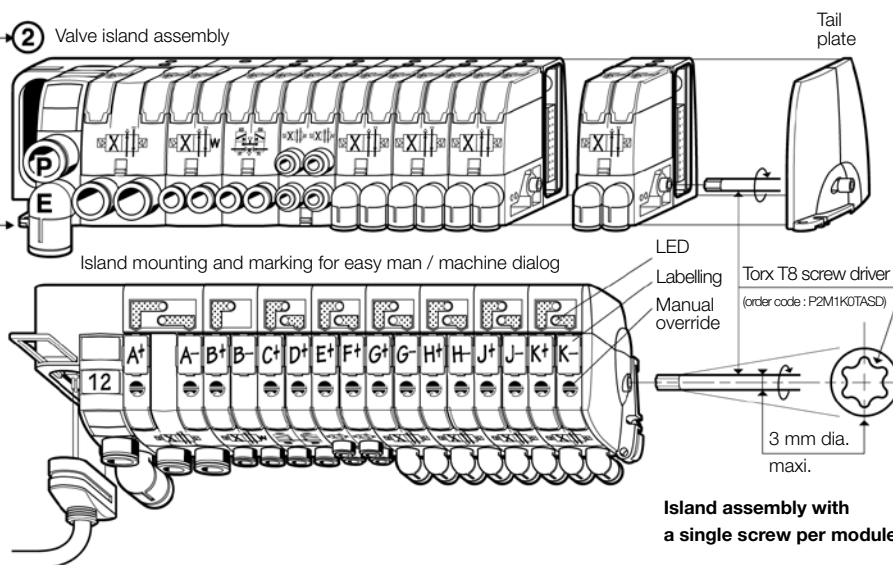
head and tail module set and sometimes an intermediate module set with 4 configuration plates for different functions.

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

Valve island assembly

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.



Island assembly with a single screw per module

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 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.

Field bus
head module:
■ width: 94 mm

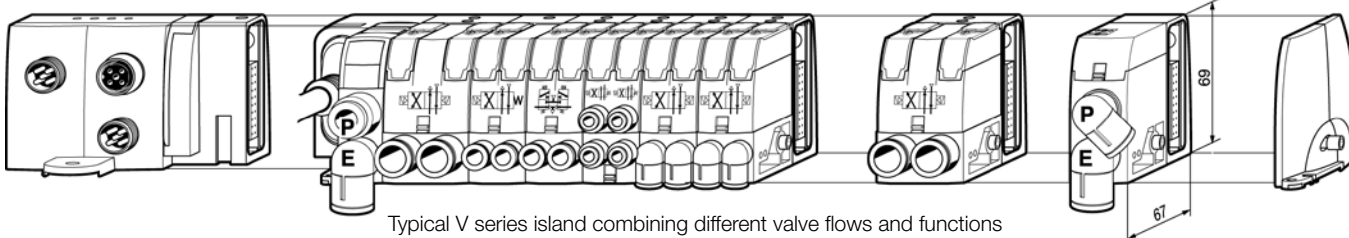
Multi-connector head module:
■ guillotine, width: 47 mm
■ sub-D 25, width: 56 mm

Valve modules
size 1:
■ width: 25 mm

Valve module
size 2:
■ width: 37.5 mm











Intermediate
module:
■ width: 25 mm

Tail
plate:
■ width: 16 mm




Typical V series island combining different valve flows and functions




Basic modules (without connector)

Valve Modules		Size 1		Size 2	
	Symbol	Description	Weight (g)	Order code	Weight (g) Order code
Size 1 		4/2 Solenoid spring	94	P2M1V4ES2CV	100 P2M2V4ES2CV
		4/2 Double solenoid	103	P2M1V4EE2CV	110 P2M2V4EE2CV
		2 x 3/2 NC + NC with exhaust check valves	106	P2M1VDEE2CV	115 P2M2VDEE2CV
		2 x 3/2 NO + NO with exhaust check valves	106	P2M1VCEE2CV	115 P2M2VCEE2CV
Size 2 		2 x 3/2 NC + NO with exhaust check valves	106	P2M1VEEE2CV	115 P2M2VEEE2CV
		2 x 4/2 Solenoid spring with exhaust check valves	114	P2M1VJEE2CV	
		3/2 NC with exhaust check valves	102	P2M1V3ES2CV	110 P2M2V3ES2CV
		4/3 Centre exhaust 2 x 3/2 NC + NC without exhaust check valves	106	P2M1VGEE2CV	115 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
	Valve island intermediate supply module with a set of 4 configuration plates	68	P2M2BXV0A

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
		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 multi-connection and field bus head modules

Multiconnector or field bus head module to be chosen from next pages.