

MODUFLEX VALVE SERIES

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

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

Moduflex Valve in-line e-Configurator



V series - basic modules (without connector)

Valve Modules			Size 1	Size 2
	Symbol	Description		
		4/2 Solenoid spring	P2M1V4ES2CV	P2M2V4ES2CV
		4/2 Double solenoid	P2M1V4EE2CV	P2M2V4EE2CV
		2 x 3/2 NC + NC with exhaust check valves	P2M1VDEE2CV	P2M2VDEE2CV
		2 x 3/2 NO + NO with exhaust check valves	P2M1VCEE2CV	P2M2VCEE2CV
		2 x 3/2 NC + NO with exhaust check valves	P2M1VEEE2CV	P2M2VEEE2CV
		2 x 4/2 Solenoid spring with exhaust check valves	P2M1VJEE2CV	
		3/2 NC with exhaust check valves	P2M1V3ES2CV	P2M2V3ES2CV
		4/3 Centre exhaust without exhaust check valves	P2M1VGEE2CV	P2M2VGEE2CV

V series - valve island: Electrical multi-connector head module

Description	Protection	Cable length	Order code
	IP65		Multi-connection head module
		2 m	P2M2HEV0A
		5 m	P8LMH20M2A
	IP65	9 m	P8LMH20M9A
			Multi-connection head module
			P2M2HEV0D
	IP40	3 m	P8LMH25M3A
		9 m	SCD259D
		9 m	SCD259WE

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)

IO-Link Class	Aux. Power Pinout	Standard	Safe Power Capable
Class A	1 & 3	P2M2HBVL12400A13	P2M2HBVL12400A13-SPC
	4 & 3	P2M2HBVL12400A43	P2M2HBVL12400A43-SPC
	4 & 2	P2M2HBVL12400A42	P2M2HBVL12400A42-SPC
Class B	2 & 5	P2M2HBVL12400B25	P2M2HBVL12400B25-SPC

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)

Ethernet Protocol	M12 version	RJ45 version
Profinet IO	P2M2HBVN12400	P2M2HBVN12400RJ
EtherNet/IP	P2M2HBVE12400	P2M2HBVE12400RJ
EtherCAT	P2M2HBVT12400	P2M2HBVT12400RJ
Modbus /TCP	P2M2HBVM12400	
PowerLink	P2M2HBVW12400	



T Series - Basic modules (without connector)

Valve Modules		Size 1		Size 2	
Symbol	Description	Actuator	Pilot connector	Order code	Order code
	4/2 Spring return	Solenoid	M8 Lockable	P2M1T4ES2C	P2M2T4ES2C
		Clip		P2M1T4ES2CW	P2M2T4ES2CW
		Air pilot	Push-In 4 mm OD	P2M1T4PS	P2M2T4PS
	4/2 Double pilot	Solenoid	M8 Lockable	P2M1T4EE2C	P2M2T4EE2C
		Clip		P2M1T4EE2CW	P2M2T4EE2CW
		Air pilot	Push-In 4 mm OD	P2M1T4PP	P2M2T4PP
	2 x 3/2 NC + NC with exhaust check valves	Solenoid	M8 Lockable	P2M1TDEE2C	P2M2TDEE2C
		Clip		P2M1TDEE2CW	P2M2TDEE2CW
		Air pilot	Push-In 4 mm OD	P2M1TDPP	P2M2TDPP
	2 x 3/2 NO + NO with exhaust check valves	Solenoid	M8 Lockable	P2M1TCEE2C	P2M2TCEE2C
		Clip		P2M1TCEE2CW	P2M2TCEE2CW
		Air pilot	Push-In 4 mm OD	P2M1TCPP	P2M2TCPP
	2 x 3/2 NC + NO with exhaust check valves	Solenoid	M8 Lockable	P2M1TEEE2C	P2M2TEEE2C
		Clip		P2M1TEEE2CW	P2M2TEEE2CW
		Air pilot	Push-In 4 mm OD	P2M1TEPP	P2M2TEPP
	2 x 4/2 Spring return with exhaust check valves	Solenoid	M8 Lockable	P2M1TJEE2C	
		Clip		P2M1TJEE2CW	
		Air pilot	Push-In 4 mm OD	P2M1TJPP	
	3/2 NC with exhaust check valves	Solenoid	M8 Lockable	P2M1T3ES2C	P2M2T3ES2C
		Clip		P2M1T3ES2CW	P2M2T3ES2CW
		Air pilot	Push-In 4 mm OD	P2M1T3PS	P2M2T3PS
	4/3 Centre exhaust 2 x 3/2 NC + NC without exhaust check valves	Solenoid	M8 Lockable	P2M1TGEE2C	P2M2TGEE2C
		Clip		P2M1TGEE2CW	P2M2TGEE2CW
		Air pilot	Push-In 4 mm OD	P2M1TGPP	P2M2TGPP

S Series - Basic modules (without connector)

Valve Modules		Size 1		Size 2	
Symbol	Description	Actuator	Pilot connector	Order code	Order code
	4/2 Spring return	Solenoid	M8 Lockable	P2M1S4ES2C	P2M2S4ES2C
		Clip		P2M1S4ES2CW	P2M2S4ES2CW
		Air pilot	Push-In 4 mm OD	P2M1S4PS	P2M2S4PS
	4/2 Double pilot	Solenoid	M8 Lockable	P2M1S4EE2C	P2M2S4EE2C
		Clip		P2M1S4EE2CW	P2M2S4EE2CW
		Air pilot	Push-In 4 mm OD	P2M1S4PP	P2M2S4PP
	2 x 3/2 NC + NC with exhaust check valves	Solenoid	M8 Lockable	P2M1SDEE2C	P2M2SDEE2C
		Clip		P2M1SDEE2CW	P2M2SDEE2CW
		Air pilot	Push-In 4 mm OD	P2M1SDPP	P2M2SDPP
	2 x 3/2 NO + NO with exhaust check valves	Solenoid	M8 Lockable	P2M1SCEE2C	P2M2SCEE2C
		Clip		P2M1SCEE2CW	P2M2SCEE2CW
		Air pilot	Push-In 4 mm OD	P2M1SCPP	P2M2SCPP
	2 x 3/2 NC + NO with exhaust check valves	Solenoid	M8 Lockable	P2M1SEEE2C	P2M2SEEE2C
		Clip		P2M1SEEE2CW	P2M2SEEE2CW
		Air pilot	Push-In 4 mm OD	P2M1SEPP	P2M2SEPP
	3/2 NC with exhaust check valves	Solenoid	M8 Lockable	P2M1S3ES2C	P2M2S3ES2C
		Clip		P2M1S3ES2CW	P2M2S3ES2CW
		Air pilot	Push-In 4 mm OD	P2M1S3PS	P2M2S3PS
	4/3 Centre exhaust 2 x 3/2 NC + NC without exhaust check valves	Solenoid	M8 Lockable	P2M1SGEE2C	P2M2SGEE2C
		Clip		P2M1SGEE2CW	P2M2SGEE2CW
		Air pilot	Push-In 4 mm OD	P2M1SGPP	P2M2SGPP

T & S Series Electrical connectors

Description	Connector type	Cable length	Order code
Individual lockable connector – IP67 Including LED and surge protection 2 Flying leads	M8 / 2 x Flying leads	2 metres	P8LS08L226C
		5 metres	P8LS08L526C
		9 metres	P8LS08L926C
Clip connector – IP40 Individual: Including 2 flying leads Multiple: Including 1 common (0 Vdc) and 1 flying lead per connector	1 x Clip connector	1 metre	P8LW021C
		2 metres	P8LW022C
		2 x Clip connectors	P8LW021C02
Straight cable quick connect to thread connector, IP67 protected	M8		P8CS0803J
		M12	P8CS1204J

P Series - Basic peripheral modules (without connector)






		Size 1	Size 2		
Symbol	Description	Order code	Order code		
	Dual flow control	P2M1PXFA	P2M2PXFA		
	Dual P.O. check valve	P2M1PXCA	P2M2PXCA		
	Pressure regulator	Pressure range	Gauge		
		0 - 2 bar	0 - 4 bar	P2M1PXS	P2M2PXS
			Without	P2M1PXST	P2M2PXST
		0 - 4 bar	0 - 7 bar	P2M1PXSM	P2M2PXSM
			Without	P2M1PXSL	P2M2PXSL
		0 - 8 bar	0 - 11 bar	P2M1PXSG	P2M2PXSG
Without	P2M1PXSN		P2M2PXSN		
	90% Vacuum generator	P2M1PXVA			

V & T Series - Head and Intermediate module sets for Valve Island

Valve Modules		Size 2	
Description		Order code	
	Valve island pneumatic head and tail module set	P2M2HXT01	
	Valve island intermediate supply module with a set of 4 configuration plates	For T Series	P2M2BXT0A
		For V Series	P2M2BXV0A

V, T, S & P Series - Clip-On pneumatic connectors *

Valve Modules		Size 1		Size 2	
		Description	Tube OD	Order code	Order code
	Straight connector	4 mm	FMD04-1		
		6 mm	FMD06-1		FMD06-2
		8 mm			FMD08-2
		10 mm			FMD10-2
		12 mm			FMD12-2**
	Elbow connector	4 mm	CMD04-1		
		6 mm	CMD06-1		CMD06-2
		8 mm			CMD08-2
		10 mm			CMD10-2
		12 mm			CMD12-2**
	Double male union		HMDXX1		HMDXX2
	Silencer		MMDVA1		MMDVA2
	Plug		PMDXX1		PMDXX2

* Fittings and plugs pack quantity: 10

** Reserved to Head and Intermediate supply modules, Not compatible with V, T, S & P Modules Size 2

Lubricators

Series	Air Port Size	Description	Order Code
P31	G1/4 Oil mist	Plastic guard/Sight gauge/Poly bowl/No drain	P31LB12LGNN
		Metal bowl/No drain	P31LB12LMNN
P32	G3/8 Oil mist	Plastic guard/Sight gauge/Poly bowl/No drain	P32LB13LGNN
		Metal bowl/Sight gauge/No drain	P32LB13LSNN
	G1/2 Oil mist	Plastic guard/Sight gauge/Poly bowl/No drain	P32LB14LGNN
		Metal bowl/Sight gauge/No drain	P32LB14LSNN
P33	G3/4 Oil mist	Plastic guard/Sight gauge/Poly bowl/No drain	P33LA16LGNN
		Metal bowl/Sight gauge/No drain	P33LA16LSNN

Bowls, Mounting Kits

			Order Code		Order Code
P31	G1/4	Metal Bowl No drain	P31KA00BMN	C-Bracket	P31KA00MW
P32	G3/8, G1/2	Metal Bowl No drain	P32KB00BSN	L-Bracket	P32KA00ML
P33	G3/4	Metal Bowl No drain	P33KA00BSN	L-Bracket	P33KA00ML

Soft Start, Dump, Combined Valves

Series	Air Port Size	Description	Order Code
P31	G1/4 Soft Start	Internal air pilot operated	P31SA12Y0N
		External 1/8 air pilot operated	-
		24VDC solenoid / 15 mm Plug No LED	P31SA12SGNC2CN
P32 P33	G1/2 Soft Start	Internal air pilot operated	P32SA14Y0N
		External 1/8 air pilot operated	P32SA14PPN
		24VDC solenoid / 30 mm Plug No LED	P32SA14SCNA2CN
P31	G1/4 Dump	Internal air pilot operated	-
		External 1/8 air pilot operated	-
		24VDC solenoid / 15 mm Plug No LED	P31DA12SGNC2CN
P32 P33*	G1/2 Dump	Internal air pilot operated	-
		External 1/8 air pilot operated	P32DA14PPN
		24VDC solenoid / 30 mm Plug No LED	P32DA14SCNA2CN
P31	G1/4 SS / Dump	Internal air pilot operated	-
		External 1/8 air pilot operated	-
		24VDC solenoid / 15 mm Plug No LED	P31TA12SGNC2CN
P32 P33	G1/2 SS / Dump	Internal air pilot operated	-
		External 1/8 air pilot operated	P32TA14PPN
		24VDC solenoid / 30 mm Plug No LED	P32TA14SCNA2CN

Note: silencer for dump and combined valves are with and not fitted on the product when delivering

Manifold Branch Blocks

Series	Air Port Size	Description	Order Code
P31	G1/4	2 auxiliary air ports top and bottom faces 1/4	P31MA12022N
P32	G1/2	2 auxiliary air ports top 1/4, bottom 1/2	P32MA14024N
		2 auxiliary air ports top and bottom faces 1/4 *	P32MD14022N
P33	G3/4	2 auxiliary air ports top 1/4, bottom 1/2	P33MA16024N

* compact design

Ball Valves

Series	Air Port Size	Description	Order Code
P31	G1/4	Lockable	P31VB12LBNN
P32	G3/8	Lockable	P32VB13LBNN
	G1/2	Lockable	P32VB14LBNN
P33	G3/4	Lockable	P33VB16LBNN

Note: Lockout tab and muffler supplied with product.

Pressure Gauges

• Double scale

Round Gauges			Square Digital Gauge	
Series	Description	Order Code	Function	Order Code
P32/P33	G1/4 on back face, 60PSI/4BAR, metallic ring, D 50mm	P6G-ERB2040	Analogue	MPS-P34G-PCI
	G1/4 on back face, 160PSI/10BAR, metallic ring, D 50mm	P6G-ERB2110	Cable 2 metre	CB-M8-4P-2M-PUR
	G1/4 on back face, 300PSI/20BAR, metallic ring, D 50mm	P6G-ERB2200	Cable 5 metre	CB-M8-4P-5M-PUR
P3X/P3Y	G1/4 on back face, 10BAR, no ring, D 40mm	KG8012-00	Male 1/4 to female 1/8	0178 13 10
	G1/4 on back face, 20BAR, no ring, D 40mm	KG8013-00		

Service kits

Series	Particulate dust 5 micron	Pre Filter 1 micron	Coalescer Filter 0,01 micron	Adsorber Filter	Plastic silencer
With bowl O-Ring (not showed with the picture)					BV, Dump, SS/Dump Valves
P31	P31KA00ESE	P31KA00ES9	P31KA00ESC	P31KA00ESA	P6M-PAB2
P32	P32KA00ESE	P32KA00ES9	P32KA00ESC	P32KA00ESA	P6M-PAB4
P33	P33KA00ESE	P33KA00ES9	P33KA00ESC	P33KA00ESA	P6M-PAB4
P3X	P3XKA00ESE	P3XKA00ES9	P3XKA00ESC	P3XKA00ESA	
P3Y	P3YKA00ESE, P3YKA00ESG (40 micron)	P3YKA00ES9	P3YKA00ESC	P3YKA00ESA	



AIR PREPARATION

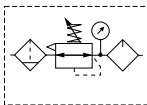
AIR PREPARATION

P3Y Series, 90mm, air ports G3/4, G1

- 12 bar, 16 as an option, non-relieving regulators as an option
- Auto drain as an option
- Polyamid bowl, aluminium painted guard as standard
- Also available in G1 ½ air port size with end blocks



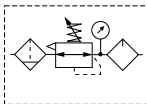
Combination Filter + Regulator + Lubricator, 12 bar, 5 micron



Port size	Flow	Manual/Semi-Auto Drain	Auto drain
	dm3/s		
G3/4	91	P3YCB16SECNFLNF	P3YCB16SEANFLNF
G1	174	P3YCB18SECNFLNF	P3YCB18SEANFLNF



Combination Filter/Regulator + Lubricator, 12 bar , 5 micron



Port size	Flow	Manual/Semi-Auto Drain	Auto drain
	dm3/s		
G3/4	101	P3YCA16SECNFLNF	P3YCA16SEANFLNF
G1	168	P3YCA18SECNFLNF	P3YCA18SEANFLNF

Note: use P3YKA1CCP kit for converting to G1 1/2.



Filters particulates 5 micron



Port size	Description	Order Code
G3/4	Manual drain/Semi auto	P3YFA16ESCN
G3/4	Auto drain	P3YFA16ESAN
G1	Manual drain / Semi auto	P3YFA18ESCN
G1	Auto drain	P3YFA18ESAN

Coalescer 0,01 micron Filters



Port size	Description	Order Code
G3/4	Coalescing Filter 0.01µm, auto drain	P3YFA16DSAN
G1	Coalescing Filter 0.01µm, auto drain	P3YFA18DSAN

Filters particulates 1 micron



Port size	Description	Order Code
G3/4	Manual drain/Semi auto	P3YFA162SCN
G3/4	Auto drain	P3YFA162SAN
G1	Manual drain / Semi auto	P3YFA182SCN
G1	Auto drain	P3YFA182SAN

Adsorber Filters



Port size	Description	Order Code
G3/4	Adsorber 0.01µm, manual drain	P3YFA16ASCN
G1	Adsorber 0.01µm, manual drain	P3YFA18ASCN

Regulators



Port size	Description	Order Code
G3/4	12 bar relieving + gauge	P3YRA16BNFN
G1	12 bar relieving + gauge	P3YRA18BNFN
G3/4	12 bar relieving, lockable + gauge	P3YRA16BAFN
G1	12 bar relieving, lockable + gauge	P3YRA18BAFN

Lubricators



Port size	Description	Order Code
G3/4	Oil mist, no drain	P3YLA16LSNN
G1	Oil mist, no drain	P3YLA18LSNN

Filter/Regulators



Port size	Description	Order Code
G3/4	12 bar, relieving manual/semi auto + gauge	P3YEA16GSCBNFN
G3/4	12 bar, relieving auto drain + gauge	P3YEA16GSABNFN
G1	12 bar, relieving manual/semi auto + gauge	P3YEA18GSCBNFN
G1	12 bar, relieving auto drain + gauge	P3YEA18GSABNFN

Pressure Gauges



	Order Code
0 - 10 bar	KG8012-00
0 - 16 bar	KG8013-00



Combined Soft Start Dump Valve and Remote Operated Dump Valve



Port size	Description	Order Code
G3/4	24VDC 22mm coil	P3YTA16SCNB2CN
G1	24VDC 22mm coil	P3YTA18SCNB2CN

Air Pilot Regulator



Port size	Description	Order Code
G3/4	Pilot operated regulator	P3YRA16BPPN
G1	Pilot operated regulator	P3YRA18BPPN



Description	Order Code
Neck mounting	P3YKA00MS

Wall mounting bracket kit



Description	Order Code
Wall mounting brackets	P3YKA00CW

End Port Blocks Kit



Port size	Description	Order Code
G1.1/2	Port block kit - BSPP	P3YKA1BCP

Connector kit



Description	Order Code
Connector kit	P3YKA00CB

Ball Valve



Port size	Description	Order Code
G3/4	Ball Valve	P3YVA16LBN
G1	Ball Valve	P3YVA18LBN

Manifold Block



Port size	Description	Width	Order Code
G3/4 - G1	Modular Manifold	(80 mm)	P3YMA1V0N

Ancillaries

Quick Exhaust Valves

- Increases piston speeds, super sensitive diaphragm
- Extremely low operating differential
- Virtually stiction free
- May be used as differential shuttle valve
- High temperature option



Port size	Order Code	Order Code High temp.	Order Code
G1/8	0RB12B	0RB12VB	PD39152
G1/4	P4Q-BA12	0RB25VB	PD39153
G3/8	P4Q-BA13	P4Q-BV13	PD39154
G1/2	P4Q-CA14	P4Q-CV14	PD39155
G3/4	P4Q-CA16	P4Q-CV16	PD39156

Exhaust Silencers

- All plastic ultra light weight versions
- All metal versions for heavy duty applications
- High noise level reduction
- Low back pressure generation



Thread	Plastic	Sintered	Metal	Stainless Steel
M5	P6M-PAC5	-	-	-
G1/8	P6M-PAB1	0670 00 10	ESB12MC	-
G1/4	P6M-PAB2	0670 00 13	ESB25MC	5500A2004
G3/8	P6M-PAB3	0670 00 17	ESB37MC	-
G1/2	P6M-PAB4	0670 00 21	ESB50MC	5500A4004
G3/4	P6M-PAB6	-	ESB75MC	-
G1	P6M-PAB8	-	ESB100MC	5500A6004
G1 ¼	-	-	ESB125MC	-
G1 ½	-	-	-	-
G2	-	-	-	5500A9004

