



General characteristics

Optyma32-S has been designed in order to complete the Optyma series of valves.

Optyma –S ,12.5mm size, integrates all the technical features already developed and implemented on the Optima T & F such as the integrated electrical connection. Further technical specifications are:

- Flow rate: up to 550[NI/min], using the modular base with $\emptyset 8$ quick fitting tube
- Modular base available with Ø4, Ø6, Ø8 quick fitting tube
- The solenoid pilots are low consumption and fitted on the same side of the valve
- Mono and bi-stable valves have the same dimension
- Easy and fast assembly on the sub base thanks to the "one screw" mounting solution
- Possibility to replace a valve without the need of disconnecting the pneumatic pipes
- Electrical and pneumatic connections positioned on the same side
- Possibility to operate with different pressures and vacuum
- Quick coupling connections for consumption, exhaust and air supply all on the same side
- Management of 32electrical signals, (16 bi-stable or any combination off mono and bi-stable vales up to max 32 signals).
- The electrical connection is achieved thanks to a 37 pole connector, as an alternative it is possible to use a 25 pole connector which can handle a maximum of 22 electrical signals.
- The protection grade is IP65 directly integrated in the manifold components.
- Manifolds can be directly integrated with the most common field bus systems.

"Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001, Pneumatic fluid power-Directional control valves-Measurement of shifting time"

Main characteristics

One size: 12.5mm thick

Monostable and bistable valves with same dimensions

Modular subbase with two positions

Modular subbases assembled via tie rods

Quick coupling connections directly integrated in the sub base

Integrated and optimized electrical connections as standard

IP65 protection grade as standard

Construction characteristics

Body	Technopolymer
Operators	Technopolymer
Spools	AISI 303 stainless steel
Spacers	Technopolymer
Seals	NBR
Piston seals	NBR
Springs	AISI 302 stainless steel
Pistons	Technopolymer

Functions

EV 5/2 MONOST. SOL. SPRING
EV 5/2 MONOST. SOL. DIFFERENTIAL
EV 5/2 BISTABLE SOL. SOL.
EV 5/3 CC SOL. SOL.
EV 2x3/2 NC-NC (= 5/3 OC) SOL. SOL.
EV 2x3/2 NO-NO (= 5/3 PC) SOL. SOL.
EV 2x3/2 NC-NO SOL. SOL.
EV 2x3/2 NO-NC SOL. SOL.

Technical characteristics

Voltage	24 VDC ±10% PNP (NPN and AC on request)		
Pilot consumption	0,5 Watt		
Valve working pressure [1]	from vacuum to 10 bar max.		
Pilot working pressure [12-14]	from 2,5 to 7 bar max.		
Operating temperature	from -5°C to +50°C		
Protection degree	IP65		
Life (standard operating conditions)	50.000.000		
Fluid	Filtered and lubricated air or not		
	(if lubricated air, the lubrication must be continuous)		



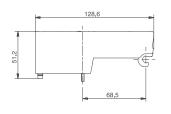


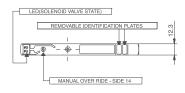
Ordering code

2241.52.00.39.**♥**









Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2244.010 tube 04=140 Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.010 tube 06=400 *Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2248.010 tube 08=550



SHORT FUNCTION CODE "A"
"Shifting time of pneumatic directional control valves or moving
parts, logic devices were measured in accordance to ISO
12238:2001, Pneumatic fluid power - Directional control valves Measurement of shifting time."

Operational chara	cteristic						
Fluid	*Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Responce time according to ISO 12238, activation time (ms)	Responce time according to ISO 12238, deactivation time (ms)	Working pressure (bar)	Pressure range (bar)	Temperature °C	Weight (gr.)
Filtered air, with or without lubrication	550	12	20	From vacuum to 10	2,5 - 7	-5° / +50°	67

Solenoid - Differential

Ordering code

2241.52.00.36.

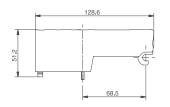
VOLTAGE

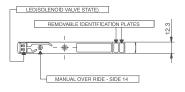
02 = 24 VDC PNP

12 = 24 VDC NPN

05 = 24 VAC







Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2244.01 \blacksquare tube \emptyset 4= 140 Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01 \blacksquare tube \emptyset 6= 400 *Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2248.01 \blacksquare tube \emptyset 8= 550



"Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001, Pneumatic fluid power - Directional control valves - Measurement of shifting time."

Operational chara	cteristic						
Fluid	*Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Responce time according to ISO 12238, activation time (ms)	Responce time according to ISO 12238, deactivation time (ms)	Working pressure (bar)	Pressure range (bar)	Temperature °C	Weight (gr.)
Filtered air, with or without lubrication	550	20	25	From vacuum to 10	2,5 - 7	-5° / +50°	67

Solenoid - Solenoid

Ordering code

2241.52.00.35.

VOLTAGE

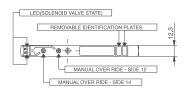
02 = 24 VDC PNP

12 = 24 VDC NPN

05 = 24 VAC



	-	128.6		-
51.2	-		68.5	
		-		-



Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2244.010 tube $\emptyset 4=140$ Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.010 tube $\emptyset 6=400$ *Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2248.010 tube $\emptyset 8=550$



SHORT FUNCTION CODE "C"
"Shifting time of pneumatic directional control valves or moving
parts, logic devices were measured in accordance to ISO
12238:2001, Pneumatic fluid power - Directional control valves
Measurement of shifting time."

			Responce time according to ISO 12238, activation time (ms)	Responce time according to ISO 12238, deactivation time (ms)	Working pressure (bar)	Pressure range (bar)	Temperature °C	Weight (gr.)
		550	10	10	From vacuum to 10	2,5 - 7	-5° / +50°	67

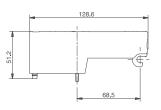
Solenoid - Solenoid - (5/3 Closed centres)

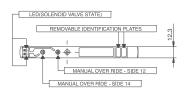
Ordering code

2241.53.31.35.

VOLTAGE 02 = 24 VDC PNP 12 = 24 VDC NPN 05 = 24 VAC







SHORT FUNCTION CODE "E" "Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001, Pneumatic fluid power - Directional control valves - Measurement of shifting time."

Operational characteristic								
	Fluid	*Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Responce time according to ISO 12238, activation time (ms)	Responce time according to ISO 12238, deactivation time (ms)	Working pressure (bar)	Pressure range (bar)	Temperature °C	Weight (gr.)
,	Filtered air, with or without lubrication	400	15	20	From vacuum to 10	2,5 - 7	-5° / +50°	83

Solenoid - Solenoid 2x3/2

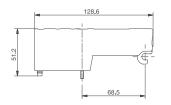
Ordering code

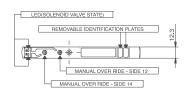
2241.62. 35. 0

FUNCTION 44 = NC - NC (5/3 Open centres) 55 = NO - NO (5/3 Pressured centres)

VOLTAGE 02 = 24 VDC PNP 12 = 24 VDC NPN 05 = 24 VAC







Flow rate at 6 bar with Δp=1 (NI/min) with Base cod. 2244.01 tube Ø4= 140 Flow rate at 6 bar with Δp =1 (NI/min) with Base cod. 2246.01 \otimes tube $\varnothing 6$ = 360 *Flow rate at 6 bar with Δp =1 (NI/min) with Base cod. 2248.01 \otimes tube $\varnothing 8$ = 420

SHORT FUNCTION CODE:

NC-NC (5/3 Open centres) = "F"
NO-NO (5/3 Pressured centres) = "G"
"Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12288:2001

	Operational characteristic							
				ample: If inlet pressure is set at 5bar then pilot pressure must be at least Pp=3+(0.2*5)= 4bar"				
Fluid		*Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Responce time according to ISO 12238, activation time (ms)	Responce time according to ISO 12238, deactivation time (ms)	Working pressure (bar)	Pressure range (bar)	Temperature °C	Weight (gr.)
	Filtered air, with or without	420	15	25	From vacuum to 10	≥3+(0,2xP.alim.)	-5° / +50°	75

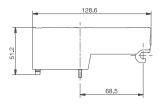
Solenoid - Solenoid 2x3/2

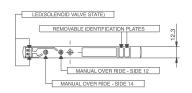
Ordering code

2241.62. 35. 0

FUNCTION 45 = NC - NO (Normally Closed -Normally Open) 54 = NO - NC (Normally Open - Nor VOLTAGE 02 = 24 VDC PNP 12 = 24 VDC NPN 05 = 24 VAC







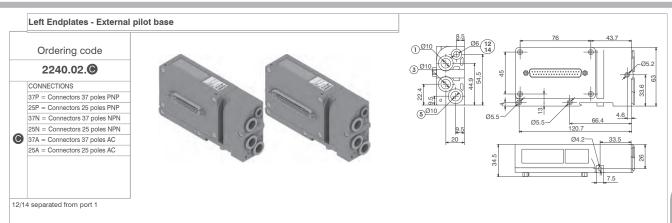
Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2244.01 \P 0 tube O4= 140 Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01 \P 0 tube O6= 360 *Flow rate at 6 bar with Δp=1 (NI/min) with Base cod. 2248.01® tube Ø8= 420

SHORT FUNCTION CODE:

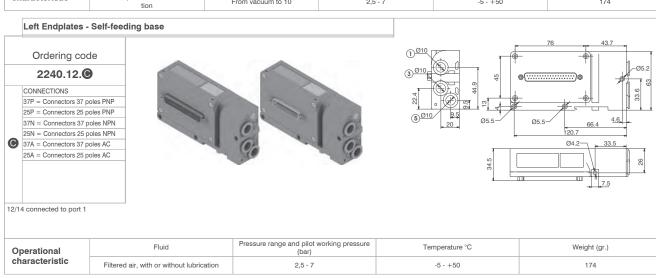
SHORT FUNCTION CODE:
NC-NA="H"
NA-NC="I"
NA-NC

			ar then pilot pressure must be at least					
		*Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Responce time according to ISO 12238, activation time (ms)	Responce time according to ISO 12238, deactivation time (ms)	Working pressure (bar)	Pressure range (bar)	Temperature °C	Weight (gr.)
		420	15	25	From vacuum to 10	≥3+(0,2xP.alim.)	-5° / +50°	75

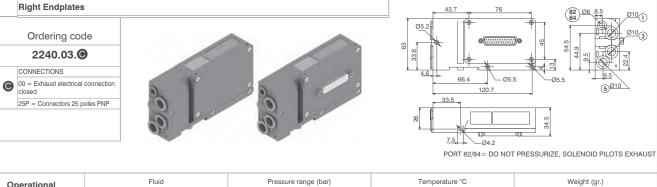




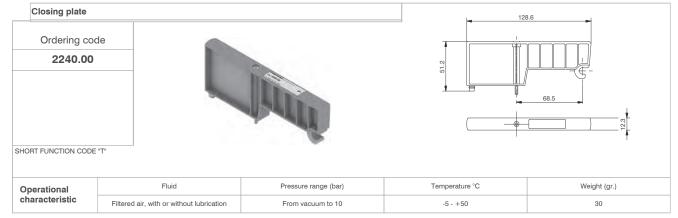
Operational	Fluid	Pressure range (bar)	Pilot working pressure (bar)	Temperature °C	Weight (gr.)
characteristic	Filtered air, with or without lubrica- tion	From vacuum to 10	2,5 - 7	-5 - +50	174







characteristic Filtered air, with or without Juhrication From vacuum to 10 .5 - +50 174	Operational	Fluid	Pressure range (bar)	Temperature °C	Weight (gr.)
The second and the se	characteristic	Filtered air, with or without lubrication	From vacuum to 10	-5 - +50	174





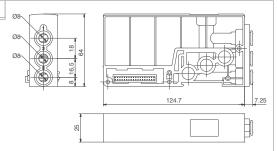


Ordering code

2240.10

SHORT FUNCTION CODE "W"





Operational	Fluid	Pressure range (bar)	Temperature °C	Weight (gr.)
characteristic	Filtered air, with or without lubrication	From vacuum to 10	-5 - +50	105

Modular base (2 places) Quick fitting tube Ø4

Ordering code

2244.**DV**

FUNCTION

01=Opened port 6 06=Separated ports 07=Port 1 separated 08=Ports 3-5 separated VERSION

M=Monostable B=Bistable



SHORT FUNCTION CODE "3" (Monostable) Opened ports SHORT FUNCTION CODE "36" (Monostable) Separated ports SHORT FUNCTION CODE "37" (Monostable) port 1 separated SHORT FUNCTION CODE "38" (Monostable) Ports 3-5 separated

SHORT FUNCTION CODE "4" (Bistable) Opened ports SHORT FUNCTION CODE "46" (Bistable) Separated ports SHORT FUNCTION CODE "47" (Bistable) Port 1 separated SHORT FUNCTION CODE "48" (Bistable) Ports 3-5 separated

Operational	Fluid	Flow rate at 6 bar with Δp=1 (NI/min)	Pressure range (bar)	Temperature °C	Weight (gr.)
characteristic	Filtered air, with or without lubrica- tion	140	From vacuum to 10	-5 - +50	75

Modular base (2 places) Quick fitting tube Ø6

Ordering code

2246.

FUNCTION 01=Opened port 06=Separated ports 07=Port 1 separated 08=Ports 3-5 separated VERSION M=Monostable B=Bistable



68.5

SHORT FUNCTION CODE "5" (Monostable) Opened ports SHORT FUNCTION CODE "56" (Monostable) Separated ports SHORT FUNCTION CODE "57" (Monostable) Port 1 separated SHORT FUNCTION CODE "58" (Monostable) Ports 3-5 separated				SHORT FUNCTION O SHORT FUNCTION O	ON CODE "6" (Bistable) Opened ports CODE "66" (Bistable) Separated ports CODE "67" (Bistable) Port 1 separated DE "68" (Bistable) Ports 3-5 separated	
Operational Fluid Flo		Flow rate at 6 bar with Δp=1 (NI/min)	Pressure range (bar)	Temperature °C	Weight (gr.)	
characteristic	Filtered air, with or without lubrica-	400	From vacuum to 10	-5 - +50	75	

Modular base (2 places) Quick fitting tube Ø8

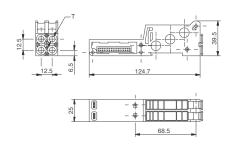
Ordering code

2248.

FUNCTION 01=Opened port 06=Separated ports 07=Port 1 separated 08=Ports 3-5 separated VERSION M=Monostable B=Bistable

SHORT FUNCTION CODE "7" (Monostable) Opened ports SHORT FUNCTION CODE "76" (Monostable) separated ports SHORT FUNCTION CODE "77" (Monostable) Port 1 separated SHORT FUNCTION CODE "78" (Monostable) Ports 3-5 separated

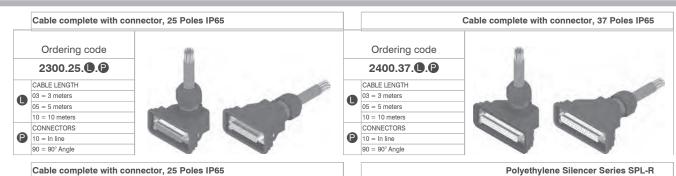




SHORT FUNCTION CODE "8" (Bistable) Opened ports SHORT FUNCTION CODE "86" (Bistable) Sepatared ports SHORT FUNCTION CODE "87" (Bistable) Port 1 separated SHORT FUNCTION CODE "88" (Bistable) Ports 3-5 separated

Operational	Fluid	Flow rate at 6 bar with Δp=1 (NI/min)	Pressure range (bar)	Temperature °C	Weight (gr.)
characteristic	Filtered air, with or without lubrica- tion	550	From vacuum to 10	-5 - +50	75





Ordering code

2400.25. 3.25

CABLE LENGTH

10 = 10 meters

03 = 3 meters 05 = 5 meters

Ordering code SPLR.

TUBE DIAMETER 6 = 6 mm 10 = 10 mm



Diaphragm plug Nut



Ordering code

2230.17

Weight gr. 6,5



2240.KD.00

Ordering code

The Kit includes 6 pieces

Accessories table for manifolds

	Tie-rod M3	
	Ordering code	
	2240.KT. P	
	N. POSITIONS	
	02=Nr. 2 Position	
	04=Nr. 4 Positions	
	06=Nr. 6 Positions	
	08=Nr. 8 Positions	
	10=Nr. 10 Positions	
	12=Nr. 12 Positions	
	14=Nr. 14 Positions	
P	16=Nr. 16 Positions	
	18=Nr. 18 Positions	
	20=Nr. 20 Positions	
	22=Nr. 22 Positions	
	24=Nr. 24 Positions	
	26=Nr. 26 Positions	
	28=Nr. 28 Positions	
	30=Nr. 30 Positions	
	32=Nr. 32 Positions	
	The Kit includes 3 pieces	



	Description	"L" Dimension
	2240.KT.02	68 mm
4	2240.KT.04	93mm
	2240.KT.06	118mm
	2240.KT.08	143mm
	2240.KT.10	168mm
	2240.KT.12	193mm
5	2240.KT.14	218mm
1000	2240.KT.16	243mm
5	2240.KT.18	268mm
	2240.KT.20	293mm
	2240.KT.22	318mm
	2240.KT.24	343mm
	2240.KT.26	368mm
	2240.KT.28	393mm
	2240.KT.30	418mm
	2240.KT.32	443mm

Set of N° positions	Ordering code	
		2240.KD.00
2	2240.KD.00 + 2240.KT.02	
4	2240.KD.00 + 2240.KT.04	
6	2240.KD.00 + 2240.KT.06	
8	2240.KD.00 + 2240.KT.08	
10	2240.KD.00 + 2240.KT.10	Nr. 6 pieces
12	2240.KD.00 + 2240.KT.12	
14	2240.KD.00 + 2240.KT.14	2240.KT.XX
16	2240.KD.00 + 2240.KT.16	2240.K1.XX
18	2240.KD.00 + 2240.KT.18	
20	2240.KD.00 + 2240.KT.20	
22	2240.KD.00 + 2240.KT.22	
24	2240.KD.00 + 2240.KT.24	
26	2240.KD.00 + 2240.KT.26	
28	2240.KD.00 + 2240.KT.28	3700
30	2240.KD.00 + 2240.KT.30	Nr. 3 pieces
32	2240.KD.00 + 2240.KT.32	Ni. 3 pieces



General:

Using the 2240.03.25P output terminal it is possible to make any electrical signals not used by valves available on a 25 sub-D female connector at the right end of the manifold.

It is possible to then join a $\,$ multi-core cable to link to the next manifold, or connect directly to one or two I/O modules.

The I/O modules can accept input or output signals, depending upon what is connected.

Ordering code

2240.08S



Please note: If the manifold is connected by a multi-core connection, each connection can be used as either an input or an output, while if the manifold is connected to a serial node the connections can only be used as an output.

It is possible to connect the manifold to up to two I/O modules.

63

Each I/O module includes 8 diagnostic LEDs which indicate the presence of an Input / Output signal for each connector.

Please note: For an LED to function, a signal of at least +15VDC must be present on pin 4 of the connector. If this signal is lower, the LED will not light, this does not compromise the normal Input/Output function of the unit.

Overall dimensions and I/O layout: 52 DIAGNOSTIC GREEN LED VOLTAGE ON THROUGH-LINE GREEN LED INPUT/OUTPUT M8 CONNECTOR 3 POLES FEMALE



PIN	DESCRIPTION
1	+24 VDC
4	INPUT/OUTPUT
3	GND

Input features:

Each connection can accept either two wire (switches, magnetic switches, pressure switches, etc.) or three wire connections (photocells, electronic end of stroke sensors, etc.) if +24VDC is required on at Pin 1 of each connector, it is possible to provide this via the through-line pin of the multi-pole connector.

M8 CONNECTOR 3 POLES FEMALE

I.E:

Pin 25 of the 25 pin multi-pole connector (code 2240.02.25P or 2240.12.25P) Pin 36-37 of the 37 pin multi-pole connector (code 2240.02.37P or 2240.12.37P)

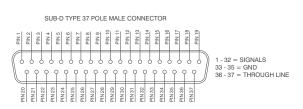
Output features:

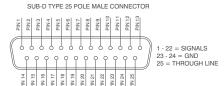


Attention: The output connections are not protected against short-circuit. Please pay attention when wiring (avoid Pin 4 being connected to Pin 3 or Pin 1).

		Model	2240.08\$
		Case	Reinforced technopolymer
		I/O Connector	M8 connector 3 poles female (IEC 60947-5-2)
	S	PIN 1 voltage (connector used as Input)	by the user
= :	stic	PIN 4 voltage diagnosis	Green Led
	<u>0</u>	Node consumption (Outlets excluded)	7mA per each LED with 24 VDC signal
e	ਹ	Outlets voltage	+23,3 VDC (serial) /by the user (multipolar)
en.	<u>cte</u>	Input voltage	Depend by the using
G	<u>ത</u>	Maximum outlet current	100 mA (serial) / 400 mA (multipolar)
	cha	Maximum Input/Output	8 per module
	5	Multiconnector max. Current	100 mA
		Connections to manifold	Direct connection to 25 poles connector
		Maximum n. of moduls	2
		Protection degree	IP65 when assembled
		Ambient temperature	from -0° to +50° C

CORRESPONDENCE BETWEEN MULTI-POLE SIGNAL AND CONNECTOR







PIN	DESCRIPTION
1	THROUGH LINE
4	SIGNAL
3	GND

Connection modes:

The I/O module changes it is operation depending on the way the manifold is controlled. There are two possible modes:

- A) Control via multi-pole connection
- Control via fieldbus

A) Control via multi-pole:

M8 connector used as Input:

SIGNAL

GND



Attention: Voltage applied to each connector is passed to multi-pole connector pin.

In order to use the I/O module, the correct right hand endplate with 25 pole female outlet connector must be used. (Code 2240.03.25P).



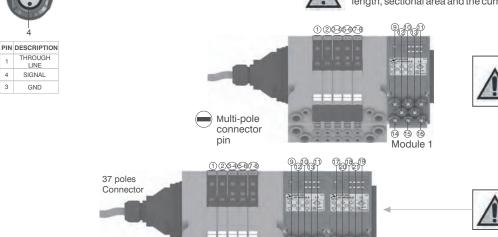
M8 connector used as Output:

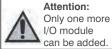
Output voltage will the same as is applied at the multi-pole connector

The maximum output current depends upon the power unit used, but we recommend no more than 250mA.



Attention: Since every cable has a degree of resistance, there will always be a voltage drop depending on the cable's length, sectional area and the current.





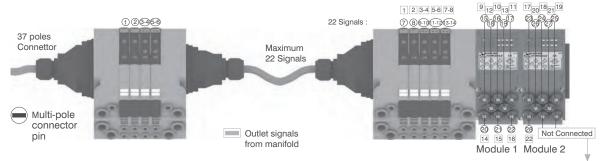


Attention: No more additions are possible

Attention: Optyma 32-S solenoid valve manifolds permit up to 22 electrical signals that are not used by manifolds to be made available: these signals can be managed by another manifold and / or by I/O modules. The I/O module will manage these unused signals. Connections that are not managing useful signals will remain unconnected.

19 15 16

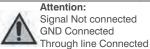
2 3 9 Module 1 Module 2



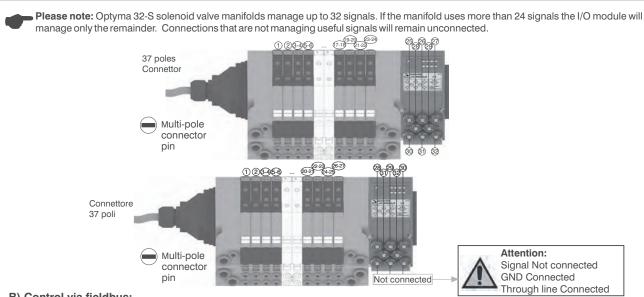
Please note: this example considers a 37 pin multi-pole connector.

Multi-pole connector pin

The same configuration managed by a 25 pin multi-pole connector will stop at number 22 of multi-pole connector and at number 17 of the manifold. 22 16



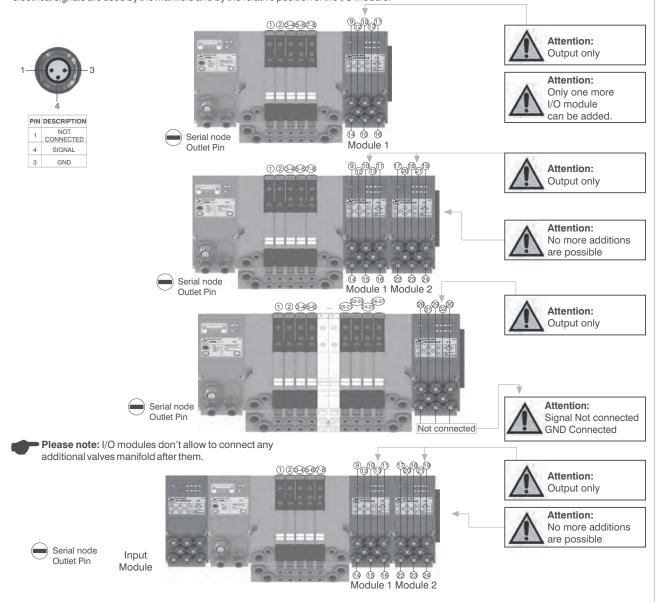




B) Control via fieldbus:

With this kind of control the I/O module can only be used as an output. Pin 1 of each connector is not connected. The output voltage will be 0.7V lower than that applied to Pin 4 of the connector.

The maximum output current for each output is 100mA. Te correspondence between control byte and each single output depends on how many electrical signals are used by the manifold and by the relative position of the I/O module.



2

Electrical connection

The electrical connection is made using a 37 pin connector and can manage up to 32 electrical signals. Alternatively a 25 pin connector can be used which is suitable for up to 22 electrical signals. The distributions of the electrical signals between sub-bases achieved thanks to a dedicated electrical connector positioned in each sun-base which diverts the signals needed to operate the solenoid pilots of the valve mounted on the sub-base and passing unused signals forward to the next base.

The Optyma-S sub-bases are designed to carry two valves and are available in the following configurations:

Sub-base configurations	Signals used for the single position	Total number of used signal
Sub-base for 2	2 signals used for the first position	4
bistable valves	2 signals used for the second position	4
Sub-base for 2	1 signal used for the first position	2
monostable valves	1 signal used for the second position	2

Sub-base for 2 bistable valves

On the sub base for 2 bistable valves the first electrical signal is used to actuate the solenoid pilot on side 14 of the first position, the second signal is used to actuate the solenoid pilot on side 12 of the first position. Each sub base uses 4 electric signals. The same layout applies to the following position therefore the third signal is used to actuate the solenoid pilot on side 14 of the second position and the fourth signal is used to actuate the solenoid pilot on side 12 of the second position.

The remaining signals are transferred downstream.

On a bistable sub base it is possible to mount both bistable or monostable valves (in the second case 1 electrical signal for each valve is wasted). This solutions enables the user to change the manifold layout without the need to re-configure the output correspondence on the PLC. The use of bistable sub-bases reduces the maximum number of valves that can be mounted on the manifold: If the 37 pole connector is used the maximum number of valves is 16 If the 25 pole connector is used the maximum number of valves is 10.

Sub-base for 2 monostable valves

On the sub base for 2 monostable valves the first electrical signal is used to actuate the solenoid pilot on side 14 of the first position, the second signal is used to actuate the solenoid pilot on side 12 of the second position. Each sub base uses 2 electric signals. The remaining signals are transferred downstream. On a monostable sub base it is possible to mount only monostable valves (shoud a bistable valve be mounted on a monostable sub base it will not be possible to actuate the solenoid pilot on side 12). This solutions enables the user to maximise the manifold lay out using all the electrical signals available.

If the 37 pole connector is used the maximum number of valves is 32 If the 25 pole connector is used the maximum number of valves is 22



Note:

Monostable valves, which are fitted with only one solenoid pilot can be mounted on both monostable or bistable sub bases.

Bistable valves ,5/3; 2x3/2;2x2/2, which are fitted with 2 solenoid pilots and therefore always use two electrical signals must always be mounted on bistable subbases.

Additional exhaust and air supply modules:

The Additional exhaust and air supply module is fitted with a dedicated electrical connector which does not use any electric signal but simply carries forward all signals which have not been used by the valves mounted before it.

This enables its use in any position of the manifold.



Unused electrical signals

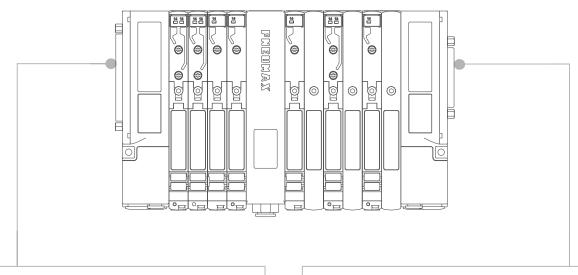
The electrical signals which have not been used in the manifold can be made available by using the end plate fitted with the 25 pole connector.

The number of electric signals available depends on the type of connector mounted on the inlet plate and on the number of signals used in the manifold:

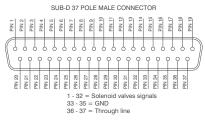
37 pole Inlet connector: N. of outputs= 32 - used signals (max 22)

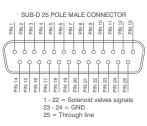
25 pole Inlet connector: N. of outputs= 22 - used signals

Here are some examples of possible configurations and the corresponding pin layout both on the inlet and end plate:

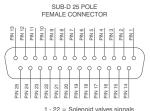


INLET ELECTRIC CONNECTIONS





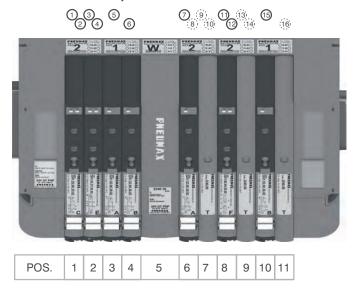
OUTLET ELECTRIC CONNECTIONS (IF PRESENT)



1 - 22 = Solenoid valves signals 23 - 24 = GND 25 = Through line

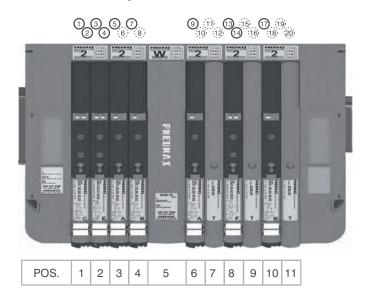


37 PIN Connector correspondence for valves assembled on mixed bases



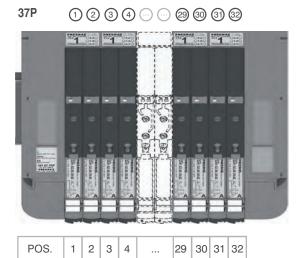
PIN 1 = PILOT 14 EV POS.1 PIN 2 = PILOT 12 EV POS.1 PIN 3 = PILOT 14 EV POS.2 PIN 4 = PILOT 12 EV POS.2 PIN 5 = PILOT 14 EV POS.3 PIN 6 = PILOT 14 EV POS.4 PIN 7 = PILOT 14 EV POS.6 PIN 8 = NOT CONNECTED PIN 9 = NOT CONNECTED PIN 10 = NOT CONNECTED PIN 11 = PILOT 14 EV POS.8 PIN 12 = PILOT 12 EV POS.8 PIN 13 = NOT CONNECTED PIN 14 = NOT CONNECTED PIN 15 = PILOT 14 EV POS.10 PIN 16 = NOT CONNECTED

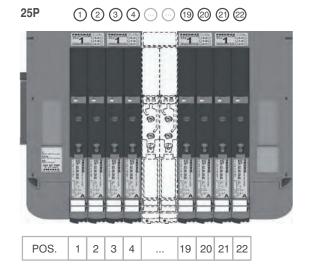
37 PIN Connector correspondence for manifold mounted on bases for bistable valves



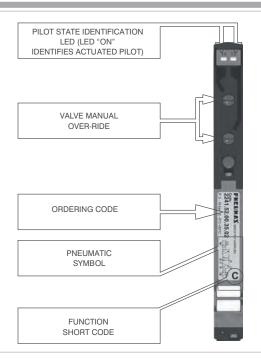
PIN 1 = PILOT 14 EV POS.1 PIN 2 = PILOT 12 EV POS.1 PIN 3 = PILOT 14 EV POS.2 PIN 4 = PILOT 12 EV POS.2 PIN 5 = PILOT 14 EV POS.3 PIN 6 = NOT CONNECTED PIN 7 = PILOT 14 EV POS.4 PIN 8 = NOT CONNECTED PIN 9 = PILOT 14 EV POS.6 PIN 10 = NOT CONNECTED PIN 11 = NOT CONNECTED PIN 12 = NOT CONNECTED PIN 13 = PILOT 14 EV POS.8 PIN 14 = PILOT 12 EV POS.8 PIN 15 = NOT CONNECTED PIN 16 = NOT CONNECTED PIN 17 = PILOT 14 EV POS.10 PIN 18 = NOT CONNECTED PIN 19 = NOT CONNECTED PIN 20 = NOT CONNECTED

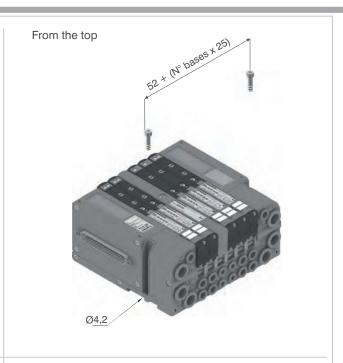
37 PIN Connector correspondence for manifold for 32 position manifold with monostable valves on double bases

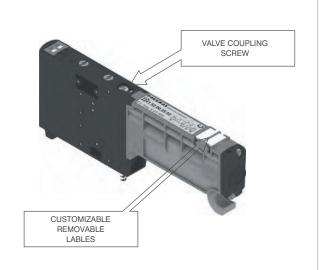


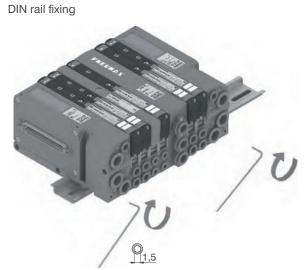


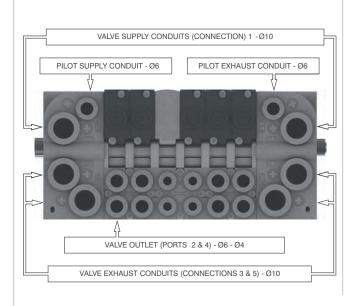


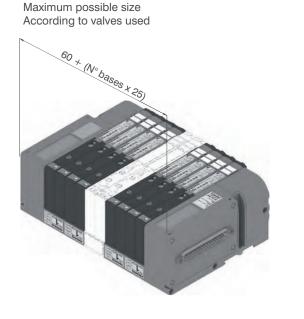




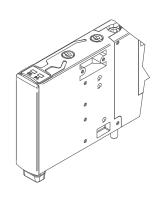


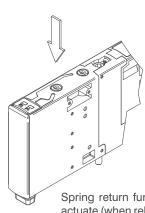






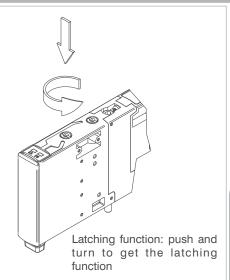




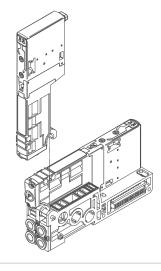


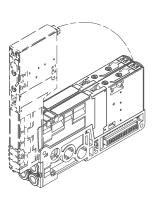
Spring return function: push to actuate (when released it moves back to the original position).

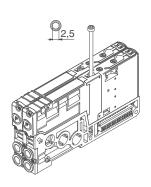
NOTE: It is strongly suggested to replace the original position after using



Valve Installation

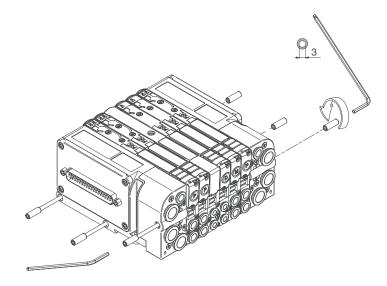






Torque moment (Nm): 0,8

Manifold assembly



Min. torque moment : 2 Nm Max. torque moment: 2,5 Nm