



## Series 888

Competitively priced, good performance and versatility combined with a compact design are the main characteristics of this new series of valves. The aluminium valve body and spool/seal arrangement optimize both the flow rate and the valve switching time. This series of valves are available with G1/8" and G1/4" ports in 3/2, 5/2 and 5/3 versions. Monostable or bistable versions are available and include an integrated technopolymer solenoid operator with 9mm stem and built in manual override.

**Solenoid valves series 888 are available in point-to-point and serial configurations.**

**For serial system specifications, see Optyma-F series.**

The valves can be supplied with or without the solenoid coil, however, if the solenoid coil is required please refer to the following table:

Voltages		Coil Code	Voltage Code
Direct current DC	12V (3,5W)	MF4	F04
	24V (3,5W)	MF5	F05
Alternating current AC 50 - 60 Hz	24V (3,7W)	MF56	F56
	110V (3,7W)	MF57	F57
	230V (3,7W)	MF58	F58

Connectors Coding		
Voltages		Kit 100 pieces
DC/AC	24V	888.11.01L-K
Alternating current AC 50 - 60 Hz	110V	888.11.02L-K
	230V	888.11.03L-K

### Construction characteristics

Body	Aluminium
Seals	NBR
Springs	Spring steel
Operators	Technopolymer Aluminium for spring bottom plates
Pistons	Technopolymer
Spools	Aluminium

### Use and maintenance

These valves have an average life of 15 million cycles depending on the application and air quality, filtered and lubricated air using specified lubricants will dramatically reduce the wear of the seals and ensures long and trouble free operation.

Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature.

The exhaust ports 3 and 5 must be protected against the possible ingress of dirt or debris.

Repair kits including the spool complete with seals are available for overhauling the valves; however, although this is a simple operation it should be carried out by a competent person.



# Spool type valves and solenoid valves Series 888 - G1/8"

1  
AIR DISTRIBUTION

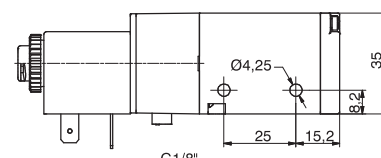
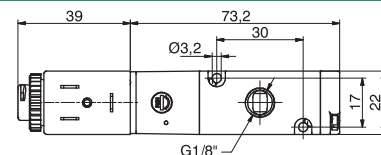
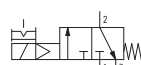
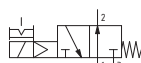
## Solenoid - Spring - 3/2 (Self feeding)

### Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880.32.F.39.V

FUNCTION	VOLTAGE
F = Normally Open	F04 = 12 V DC
C = Normally Closed	F05 = 24 V DC
	F56 = 24 V (50-60 Hz)
	F57 = 110 V (50-60 Hz)
	F58 = 230 V (50-60 Hz)
	F00 = Without coil



Weight 210 g  
Minimum working pressure 2 bar

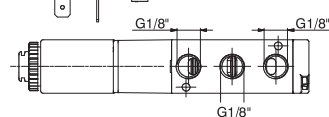
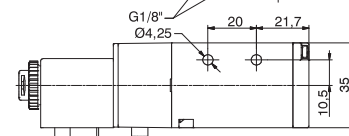
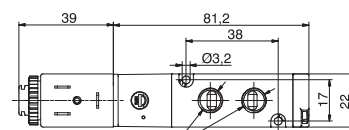
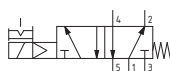
## Solenoid - Spring - 5/2 (Self feeding)

### Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880.52.00.39.V

VOLTAGE
F04 = 12 V DC
F05 = 24 V DC
F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = Without coil



Weight 220 g  
Minimum working pressure 2 bar

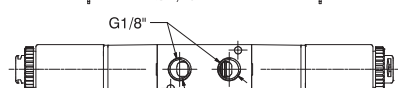
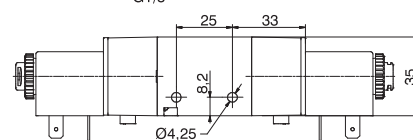
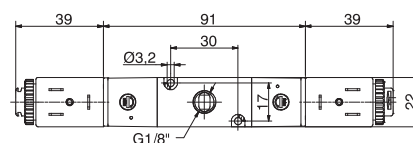
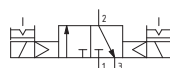
## Solenoid - Solenoid - 3/2 (Self feeding)

### Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880.32.00.35.V

VOLTAGE
F04 = 12 V DC
F05 = 24 V DC
F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = Without coil



Weight 310 g  
Minimum working pressure 2 bar

### Solenoid - Solenoid - 5/2 (Self feeding)

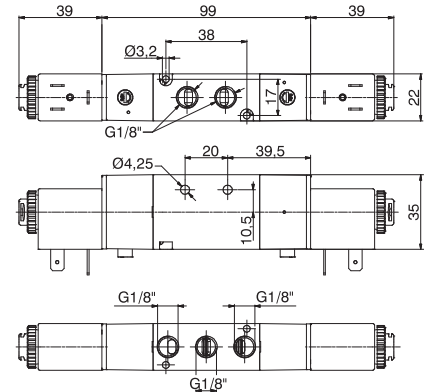
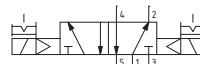
Coding: 8880.52.00.35.V

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (l/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

VOLTAGE	
F04	= 12 V DC
F05	= 24 V DC
V F56	= 24 V (50-60 Hz)
F57	= 110 V (50-60 Hz)
F58	= 230 V (50-60 Hz)
F00	= Without coil



Weight 320 g  
Minimum working pressure 2 bar



### Solenoid - Solenoid - 5/3 (Self feeding)

Coding: 8880.53.F.35.V

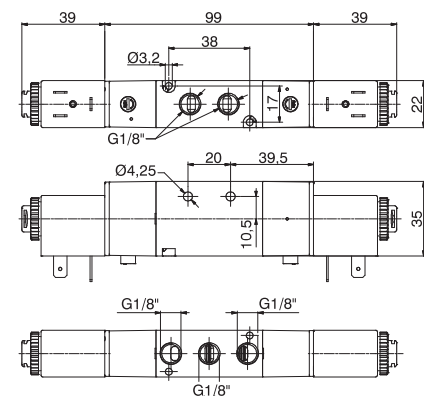
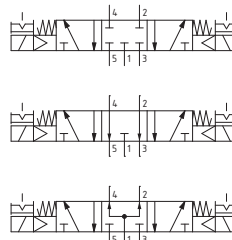
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (l/min)	440
Orifice size (mm)	5.8
Working ports size	G 1/8"

FUNCTION	
F31	= Closed Centres
F32	= Open Centres
F33	= Pressured centres

VOLTAGE	
F04	= 12 V DC
F05	= 24 V DC
V F56	= 24 V (50-60 Hz)
F57	= 110 V (50-60 Hz)
F58	= 230 V (50-60 Hz)
F00	= Without coil



Weight 330 g  
Minimum working pressure 2,5 bar



### Solenoid - Spring - 3/2 (External feeding)

Coding: 8880E.32.F.39.V

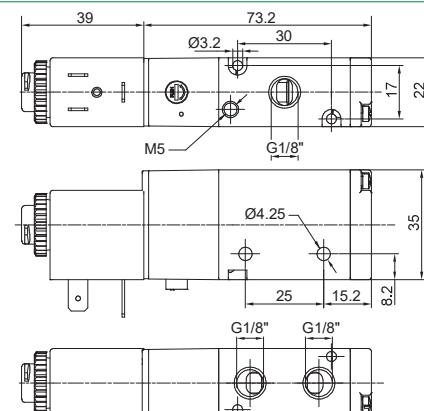
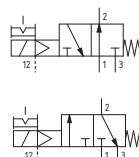
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (l/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

FUNCTION	
F A	= Normally open
C	= Normally Closed

VOLTAGE	
F04	= 12 V DC
F05	= 24 V DC
V F56	= 24 V (50-60 Hz)
F57	= 110 V (50-60 Hz)
F58	= 230 V (50-60 Hz)
F00	= Without coil



Weight 210 g  
Minimum working pressure 2 bar





### Solenoid - Spring - 5/2 (External feeding)

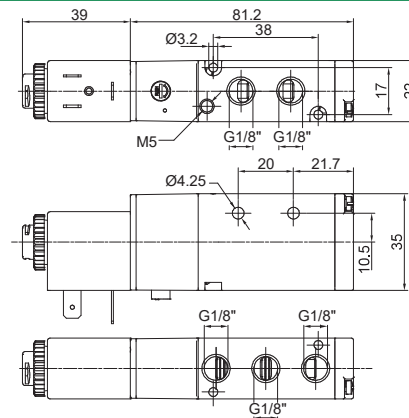
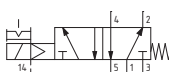
**Coding: 8880E.52.00.39.▼**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

VOLTAGE
F04 = 12 V DC
F05 = 24 V DC
▼ F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = Without coil



Weight 220 g  
Minimum working pressure 2 bar



### Solenoid - Solenoid - 3/2 (External feeding)

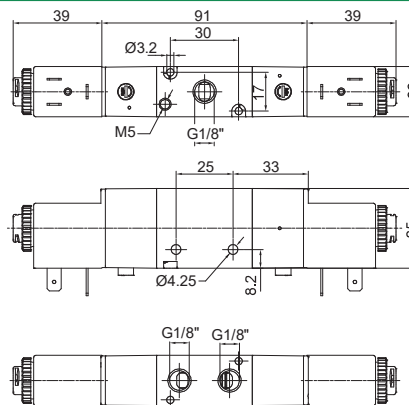
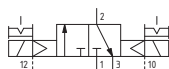
**Coding: 8880E.32.00.35.▼**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

VOLTAGE
F04 = 12 V DC
F05 = 24 V DC
▼ F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = Without coil



Weight 310 g  
Minimum working pressure 2 bar



### Solenoid - Solenoid - 5/2 (External feeding)

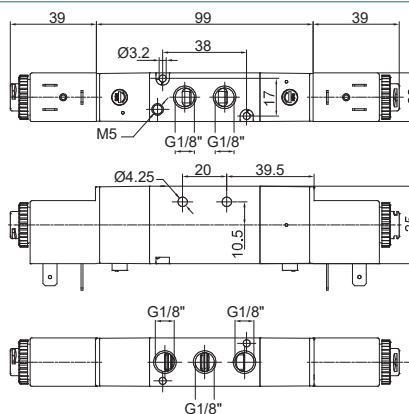
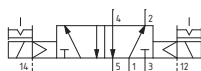
**Coding: 8880E.52.00.35.▼**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

VOLTAGE
F04 = 12 V DC
F05 = 24 V DC
▼ F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = Without coil



Weight 320 g  
Minimum working pressure 2 bar





**Solenoid - Solenoid - 5/3 (External feeding)**

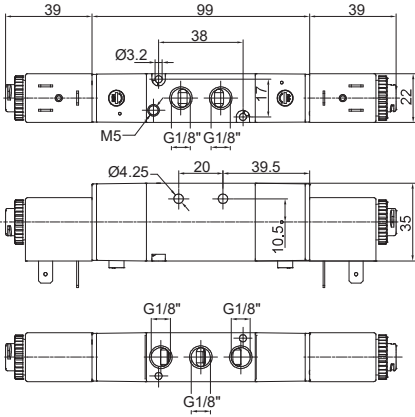
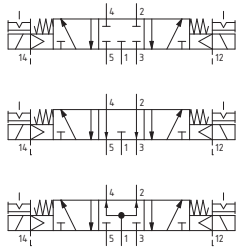
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (l/min)	440
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880E.53.F.35.V

FUNCTION	VOLTAGE
<b>F</b> 31 = Closed Centres	<b>F04</b> = 12 V DC
32 = Open Centres	<b>F05</b> = 24 V DC
33 = Pressured centres	<b>V</b> <b>F56</b> = 24 V (50-60 Hz)
	<b>F57</b> = 110 V (50-60 Hz)
	<b>F58</b> = 230 V (50-60 Hz)
	<b>F00</b> = Without coil



Weight 330 g  
Minimum working pressure 2,5 bar





# Spool type valves and solenoid valves Series 888 - G1/4"

1  
AIR DISTRIBUTION

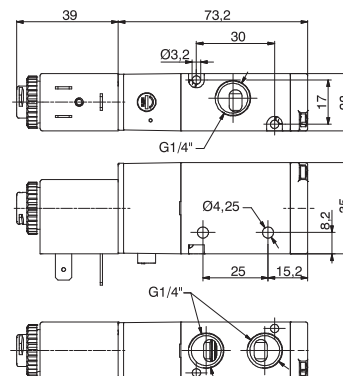
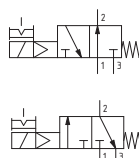
## Solenoid - Spring - 3/2 (Self feeding)

### Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.32.F.39.V

FUNCTION	VOLTAGE
F = Normally open	F04 = 12 V DC
C = Normally Closed	F05 = 24 V DC
	F56 = 24 V (50-60 Hz)
	F57 = 110 V (50-60 Hz)
	F58 = 230 V (50-60 Hz)
	F00 = Without coil



Weight 210 g  
Minimum working pressure 2 bar

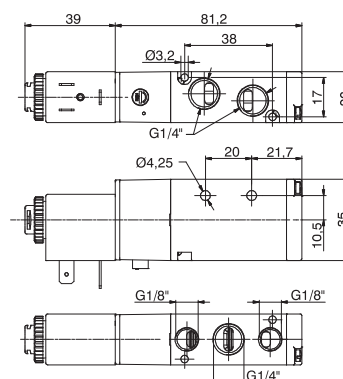
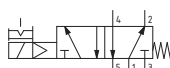
## Solenoid - Spring - 5/2 (Self feeding)

### Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.52.00.39.V

VOLTAGE
F04 = 12 V DC
F05 = 24 V DC
F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = Without coil



Weight 220 g  
Minimum working pressure 2 bar

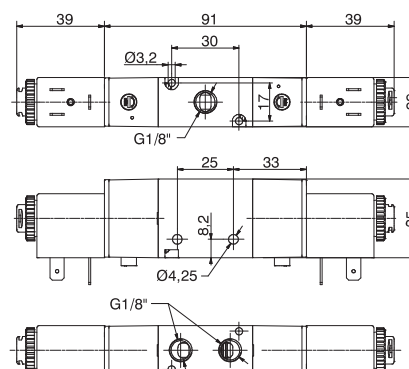
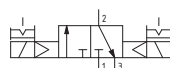
## Solenoid - Solenoid - 3/2 (Self feeding)

### Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.32.00.35.V

VOLTAGE
F04 = 12 V DC
F05 = 24 V DC
F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = Without coil



Weight 310 g  
Minimum working pressure 2 bar

### Solenoid - Solenoid - 5/2 (Self feeding)

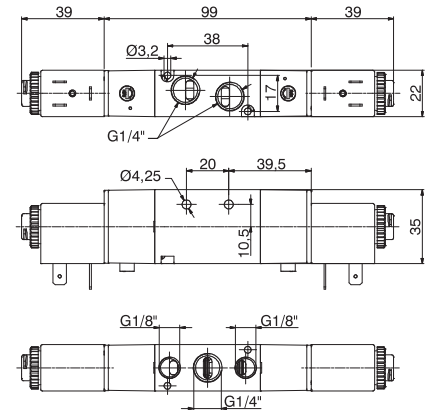
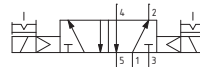
Coding: 8884.52.00.35. **V**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

VOLTAGE
<b>F04</b> = 12 V DC
<b>F05</b> = 24 V DC
<b>V F56</b> = 24 V (50-60 Hz)
<b>F57</b> = 110 V (50-60 Hz)
<b>F58</b> = 230 V (50-60 Hz)
<b>F00</b> = Without coil



Weight 320 g  
Minimum working pressure 2 bar

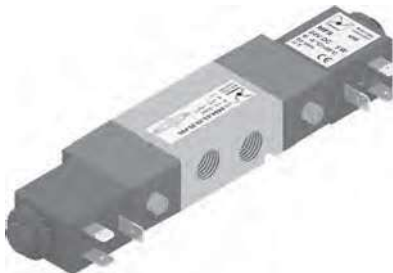


### Solenoid - Solenoid - 5/3 (Self feeding)

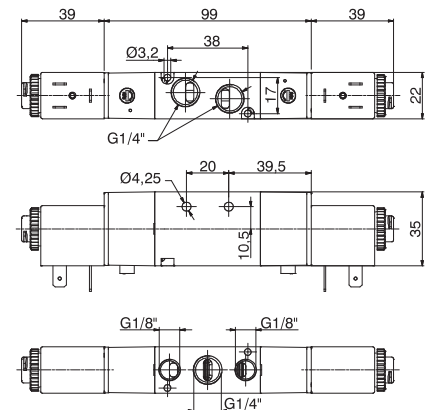
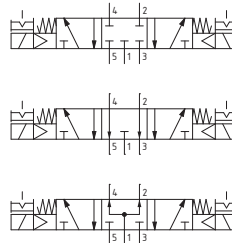
Coding: 8884.53. **F**.35. **V**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6.5
Working ports size	G 1/4"

FUNCTION	VOLTAGE
<b>F</b> 31 = Closed Centres	<b>F04</b> = 12 V DC
32 = Open Centres	<b>F05</b> = 24 V DC
33 = Pressured centres	<b>V F56</b> = 24 V (50-60 Hz)
	<b>F57</b> = 110 V (50-60 Hz)
	<b>F58</b> = 230 V (50-60 Hz)
	<b>F00</b> = Without coil



Weight 330 g  
Minimum working pressure 2,5 bar



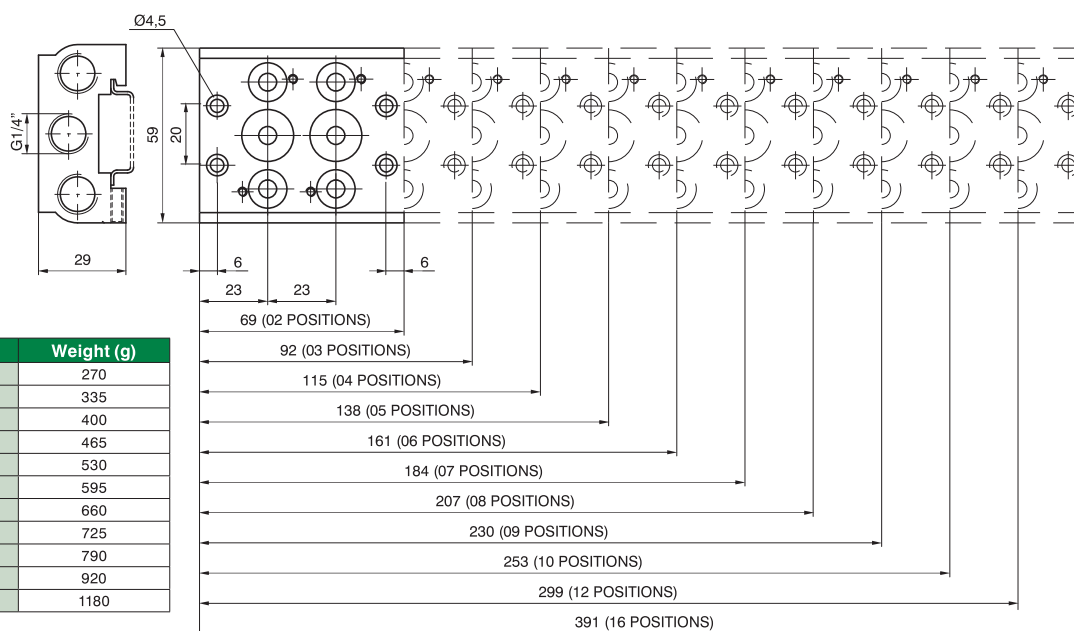


## Manifold (Valves 5/2 - 5/3)

Coding: 888.N



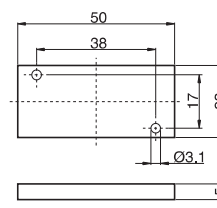
N	NO. POSITIONS
	02 = 2 positions
	03 = 3 positions
	04 = 4 positions
	05 = 5 positions
	06 = 6 positions
	07 = 7 positions
	08 = 8 positions
	09 = 9 positions
	10 = 10 positions
	12 = 12 positions
	16 = 16 positions



No. positions	Weight (g)
02	270
03	335
04	400
05	465
06	530
07	595
08	660
09	725
10	790
12	920
16	1180

## Closing plate

Coding: 888.00



Weight 18 g  
Closing plate supplied complete with 2 fixing screws to the manifold and 2 fixing screws to the multi-pin base



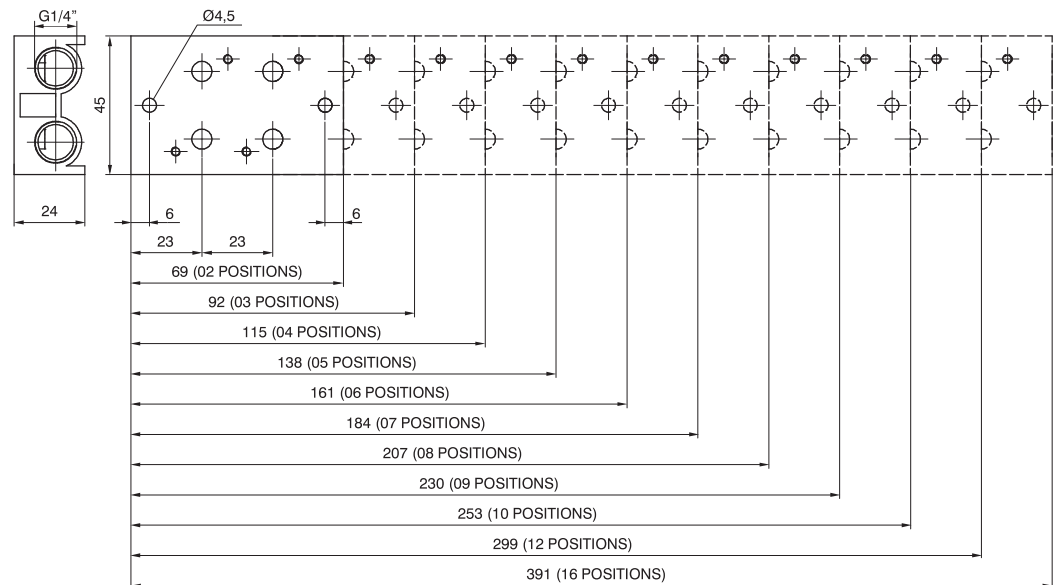
## Manifold (Valves 3/2)

Coding: 8883.N



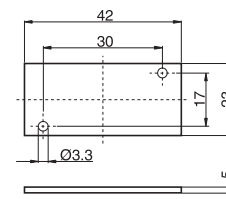
NO. POSITIONS
02 = 2 positions
03 = 3 positions
04 = 4 positions
05 = 5 positions
06 = 6 positions
07 = 7 positions
08 = 8 positions
09 = 9 positions
10 = 10 positions
12 = 12 positions
16 = 16 positions

No. positions	Weight (g)
02	270
03	335
04	400
05	465
06	530
07	595
08	660
09	725
10	790
12	920
16	1180



## Closing plate (Valves 3/2)

Coding: 8883.00



Weight 10 g  
Closing plate supplied complete with 2 fixing screws to the manifold

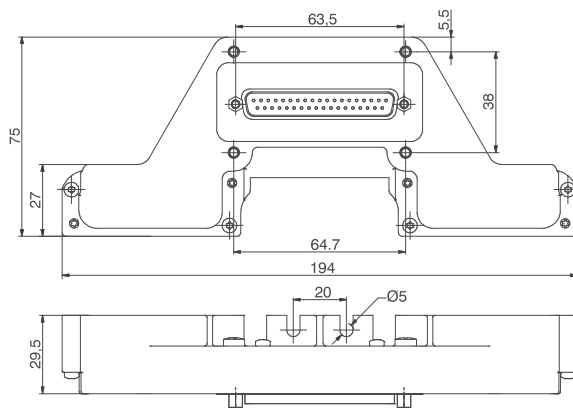


Endplate, 37 Poles IP65

Coding: 888M.37.10



Weight 186 g  
The IP65 protection is obtained by IP65 Pneumax cable.  
Code complete with assembled endplate and 4 manifold fixing screws, previously mounted on the Manifold.

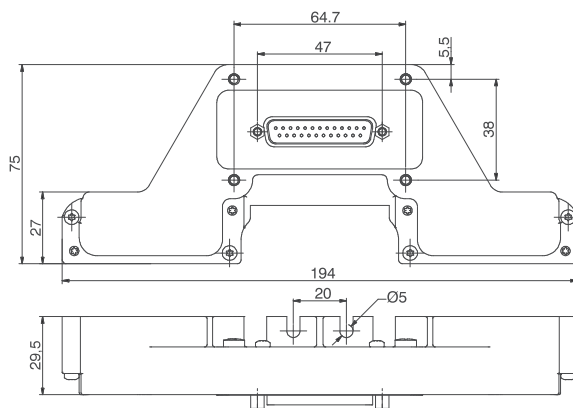


Endplate, 25 Poles IP65

Coding: 888M.25.10



Weight 181 g  
The IP65 protection is obtained by IP65 Pneumax cable.  
Code complete with assembled endplate and 4 manifold fixing screws, previously mounted on the Manifold.

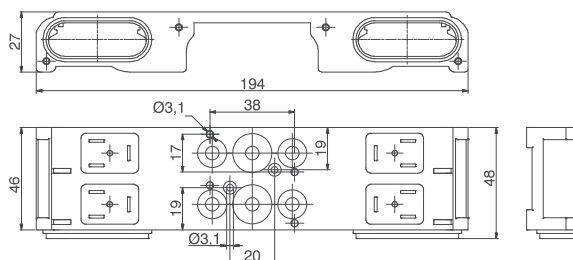


Modular base, 2 positions IP65

Coding: 888M.02.BM

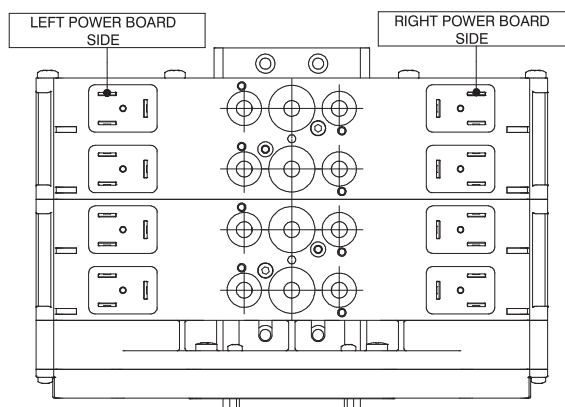


Weight 220 g  
Complete with seals and fixing screws  
Usable only for 5/2 and 5/3 Distributors



Left and Right Power board PNP 24 VDC

Coding: 888M.**N**.**T**



N	NO. POSITIONS
	04 = 4 positions
	08 = 8 positions
	12 = 12 positions
	16 = 16 positions
T	TYPE
	00 = Left
	01 = Right

No. positions	Weight (g)
04	11.2
08	22.4
12	33.6
16	44.8

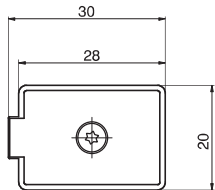


► Closing plate

Coding: 888M.22.PC



Weight 3 g  
Closing plate supplied complete with 1 Seal and fixing screw with O ring  
Maximum fixing torque for fittings: 0,35Nm

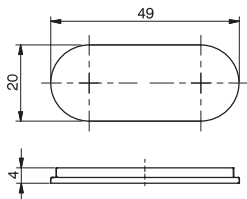


► Multi-pin base plug

Coding: 888M.T



Weight 2,6 g  
Complete with: Nr. 1 Plug, Nr. 2 Fixing screws

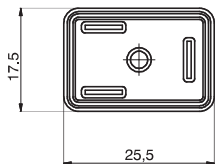


► Seals

Coding: 888M.22.G



Weight 0,52 g



► In line cable complete with connector, IP40

Coding: 2400.C.L.00



	CONNECTOR
●	25 = 25 poles
	37 = 37 poles
	CABLE LENGTH
●	03 = 3 meters
	05 = 5 meters
	10 = 10 meters

► Cable complete with connector, 25 Poles, IP65

Coding: 2300.25.L.C



	CABLE LENGTH
●	03 = 3 meters
	05 = 5 meters
	10 = 10 meters
	CONNECTOR
●	10 = Stand alone
	90 = 90° Angle

► Cable complete with connector, 37 Poles, IP65

Coding: 2400.37.L.C

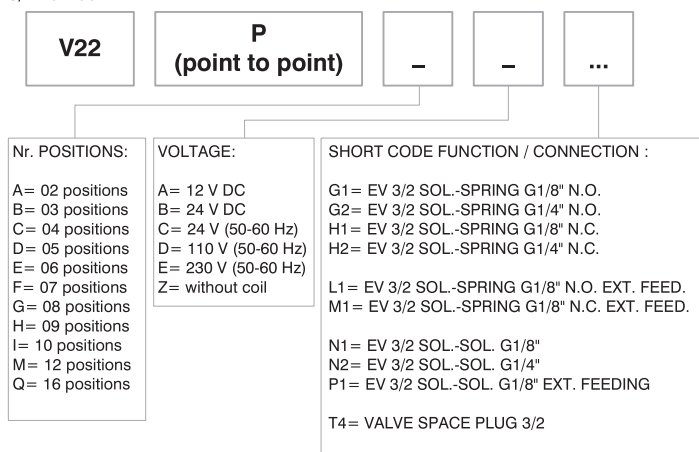


	CABLE LENGTH
●	03 = 3 meters
	05 = 5 meters
	10 = 10 meters
	CONNECTOR
●	10 = Stand alone
	90 = 90° Angle

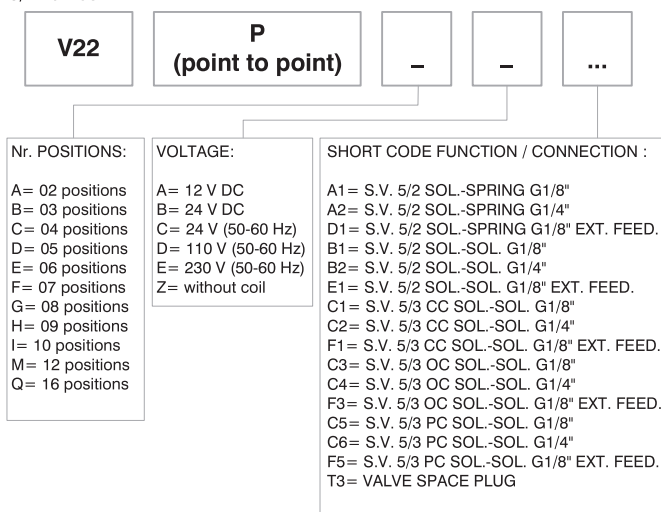


## Manifold layout Configuration Point to Point

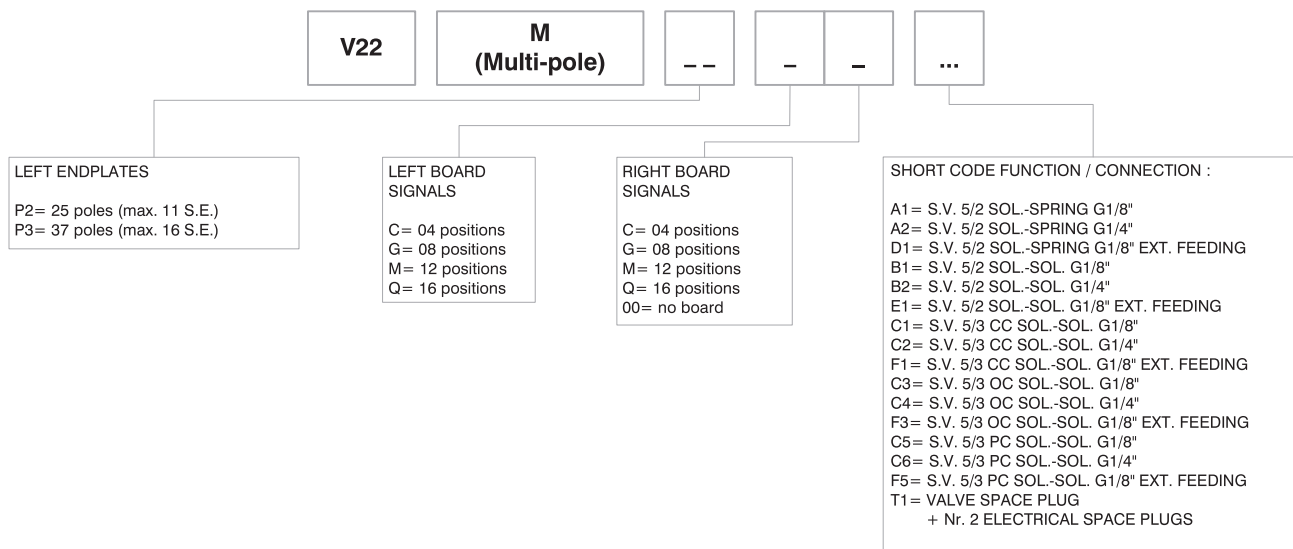
### 3/2 valves



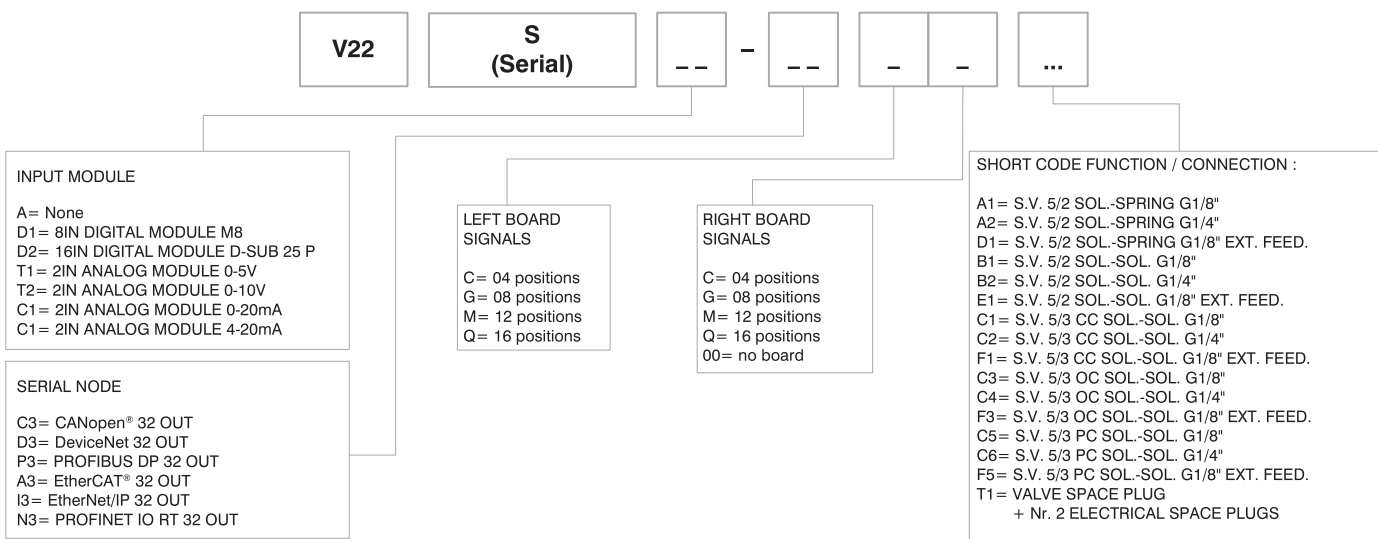
### 5/2 valves



## Manifold layout Configuration Multi-pole



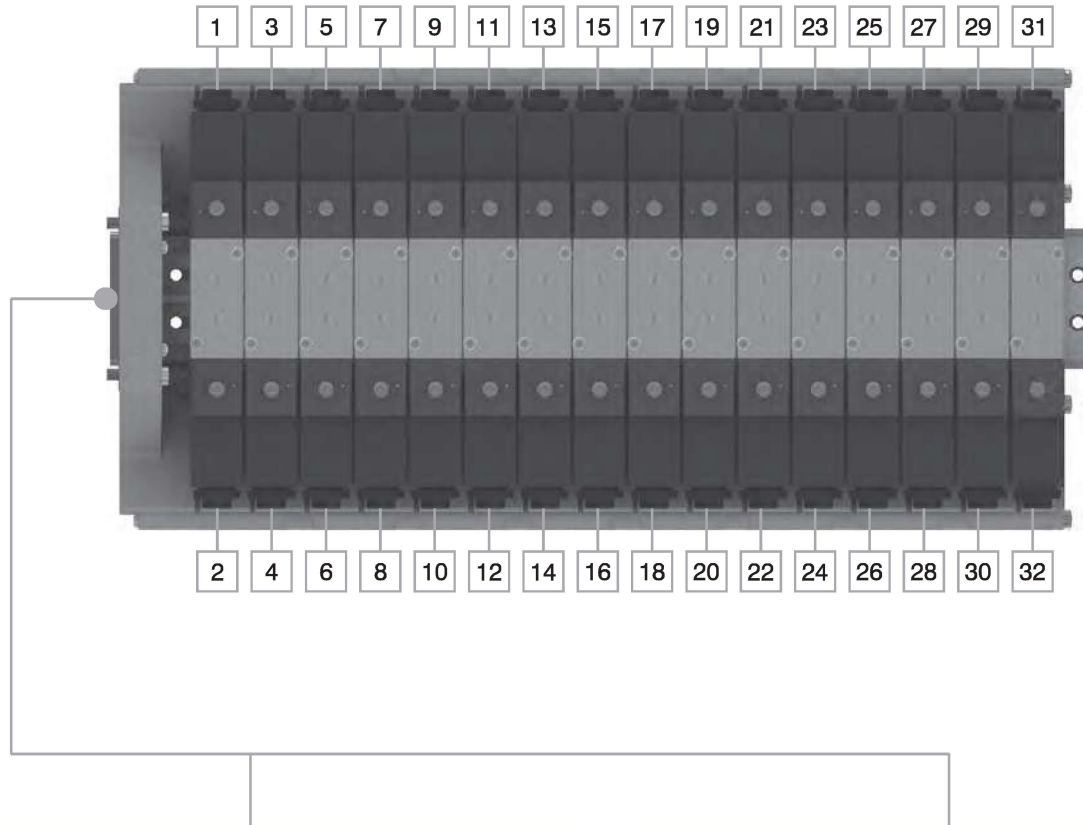
## Serial manifold layout (for the serial system node, see the Optyma-F Series)



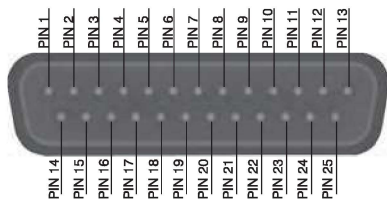
### NOTE:

When constructing the configuration, please consider that the maximum number of valves that can be mounted on the manifold is 16, regardless of the valve type. Any valve position presents two electrical connections: in case of use of monostable valves (A1-A2) it will be necessary to assemble a plug to protect the unused electrical connection.

The correspondence between the electrical signal and its location on the manifold is showed in the following diagrams.

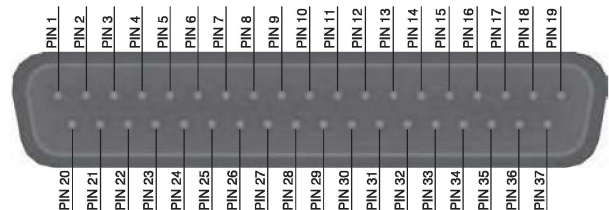


Connector 25 Poles from 1 to 11  
Positions E.V. Bistable / Monostable



1 - 22 = SIGNALS  
23 - 24 = GND  
25 = NC

Connector 37 Poles from 1 to 16  
Positions E.V. Bistable / Monostable



1 - 32 = SIGNALS  
33 - 35 = GND  
36 - 37 = NC

## Assembly sequence

