

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		Kit 100 pieces
Voltages		
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"

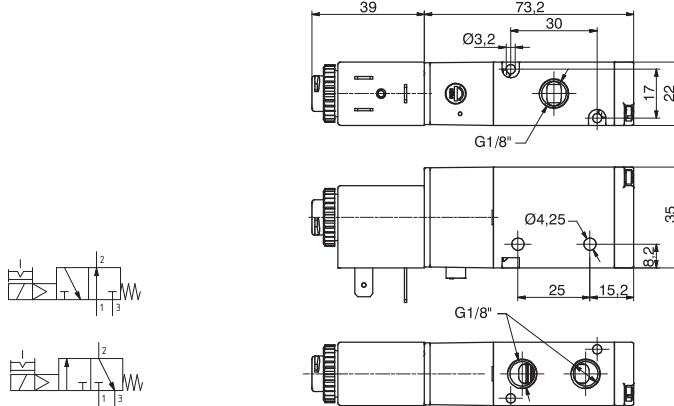
Solenoid - Spring - 3/2 (Self feeding)

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 $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

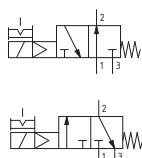
Coding: 8880.32.F.39.V

F	FUNCTION
	A = Normally Open
C	Normally Closed

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 210 g
Minimum working pressure 2 bar

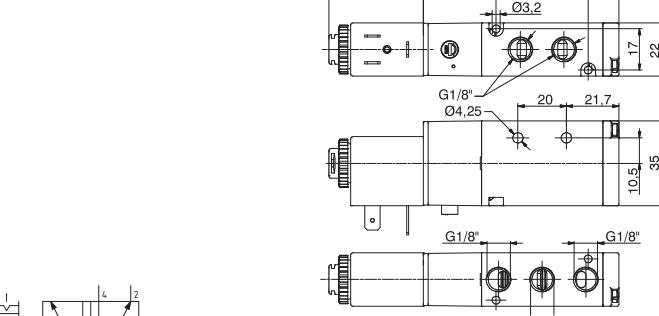


Solenoid - Spring - 5/2 (Self feeding)

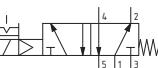
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880.52.00.39.V

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

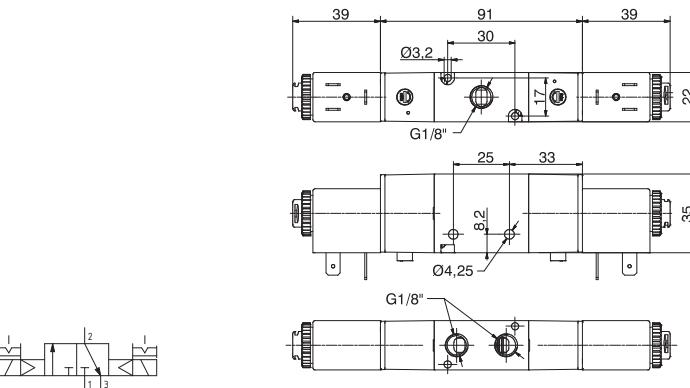


Solenoid - Solenoid - 3/2 (Self feeding)

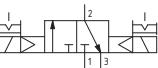
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880.32.00.35.V

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



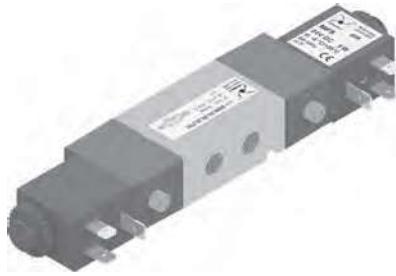
► Solenoid - Solenoid - 5/2 (Self feeding)

Operational characteristics

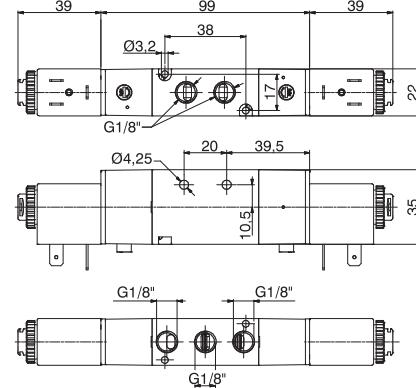
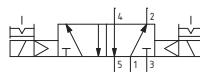
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880.52.00.35.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 320 g
Minimum working pressure 2 bar



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

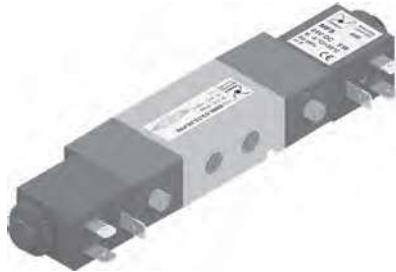
Operational characteristics

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 $\Delta p=1$ (NL/min)	440
Orifice size (mm)	5.8
Working ports size	G 1/8"

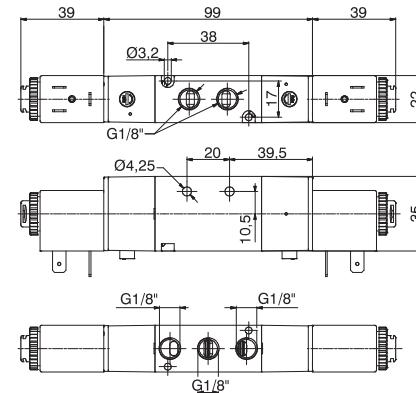
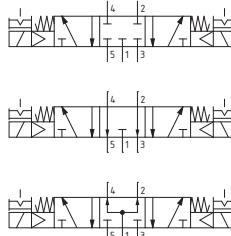
Coding: 8880.53.F.35.V

FUNCTION
31 = Closed Centres
32 = Open Centres
33 = Pressured centres

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 330 g
Minimum working pressure 2,5 bar



► Solenoid - Spring - 3/2 (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 $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

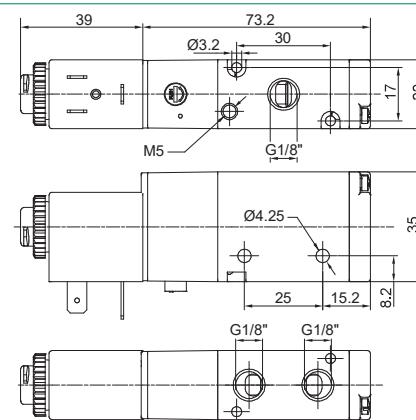
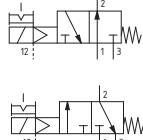
Coding: 8880E.32.F.39.V

FUNCTION
F = Normally open
C = Normally Closed

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 210 g
Minimum working pressure 2 bar





Spool type valves and solenoid valves

Series 888 - G1/8"

Solenoid - Spring - 5/2 (External feeding)

Operational characteristics

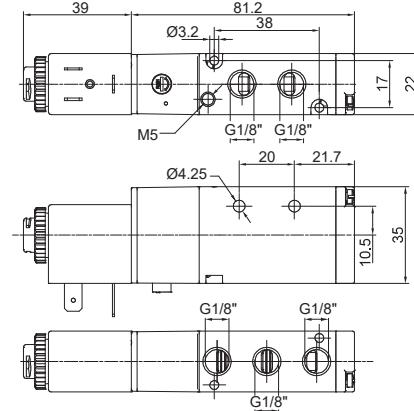
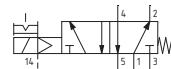
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880E.52.00.39.▼

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



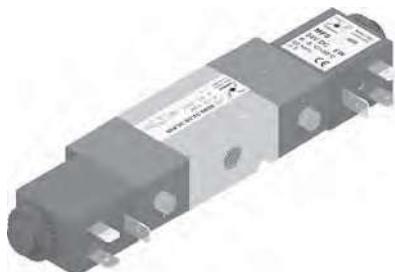
Solenoid - Solenoid - 3/2 (External feeding)

Operational characteristics

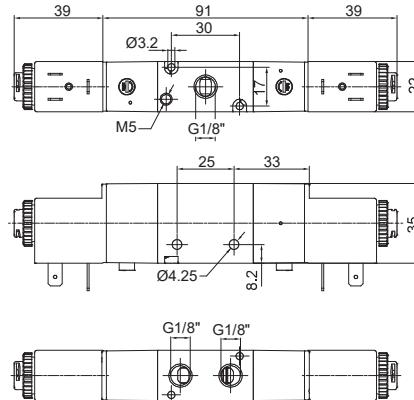
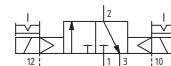
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880E.32.00.35.▼

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



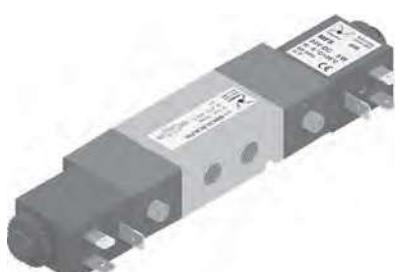
Solenoid - Solenoid - 5/2 (External feeding)

Operational characteristics

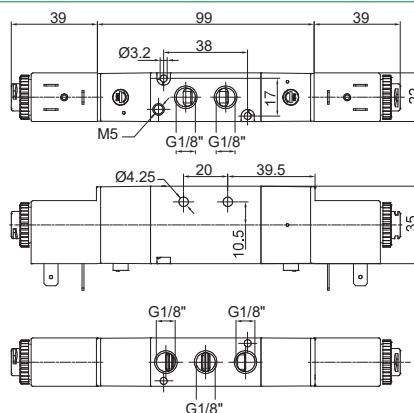
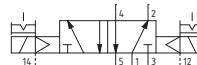
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

Coding: 8880E.52.00.35.▼

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)**

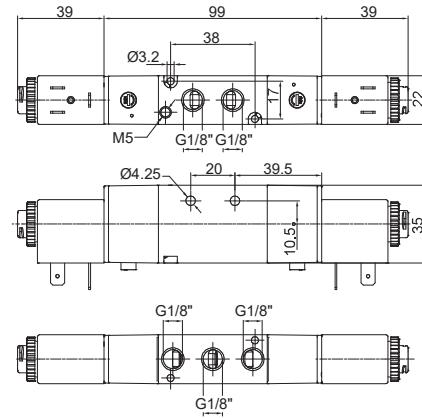
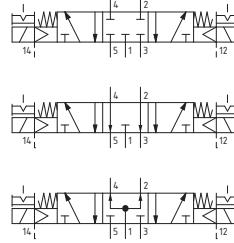
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p = 1$ (NL/min)	440
Orifice size (mm)	5.8
Working ports size	G 1/8"

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

F	FUNCTION	VOLTAGE
31	Closed Centres	F04 = 12 VDC
32	Open Centres	F05 = 24 VDC
33	Pressured centres	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





Spool type valves and solenoid valves

Series 888 - G1/4"

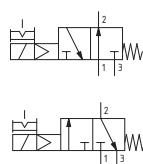
Solenoid - Spring - 3/2 (Self feeding)

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 $\Delta p=1$ (NL/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

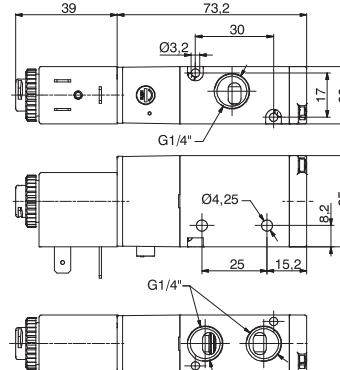
Coding: 8884.32.F.39.V

F	FUNCTION
	A = Normally open
C	Normally Closed

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 210 g
Minimum working pressure 2 bar

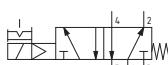


Solenoid - Spring - 5/2 (Self feeding)

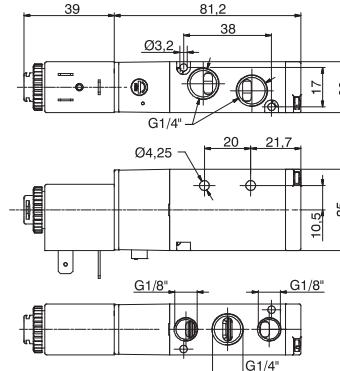
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.52.00.39.V

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

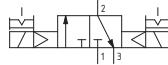


Solenoid - Solenoid - 3/2 (Self feeding)

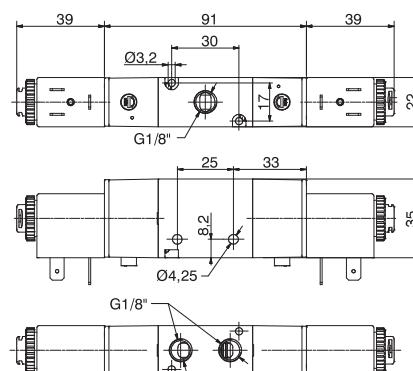
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.32.00.35.V

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)

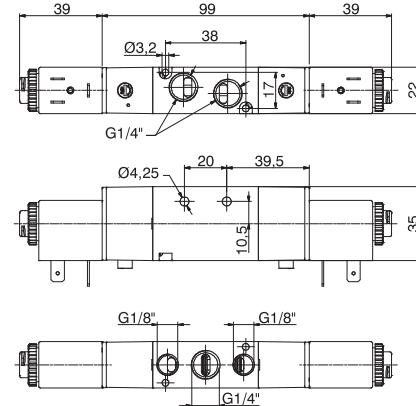
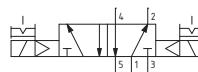
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	8
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.52.00.35. 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 320 g
Minimum working pressure 2 bar



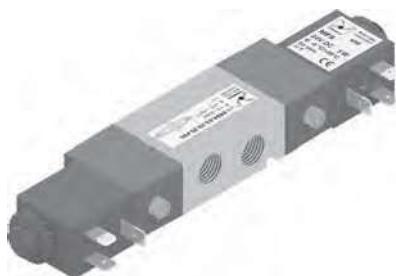
► Solenoid - Solenoid - 5/3 (Self feeding)

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 $\Delta p=1$ (NL/min)	540
Orifice size (mm)	6.5
Working ports size	G 1/4"

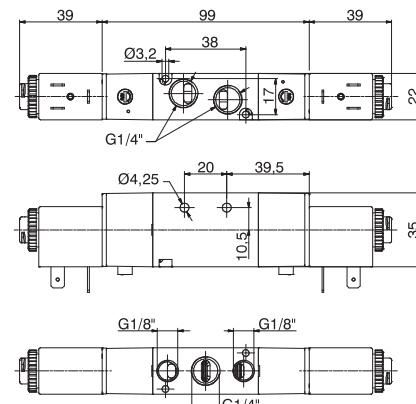
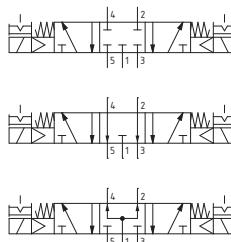
Coding: 8884.53.F.35. V

FUNCTION
31 = Closed Centres
32 = Open Centres
33 = Pressured centres

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 330 g
Minimum working pressure 2,5 bar



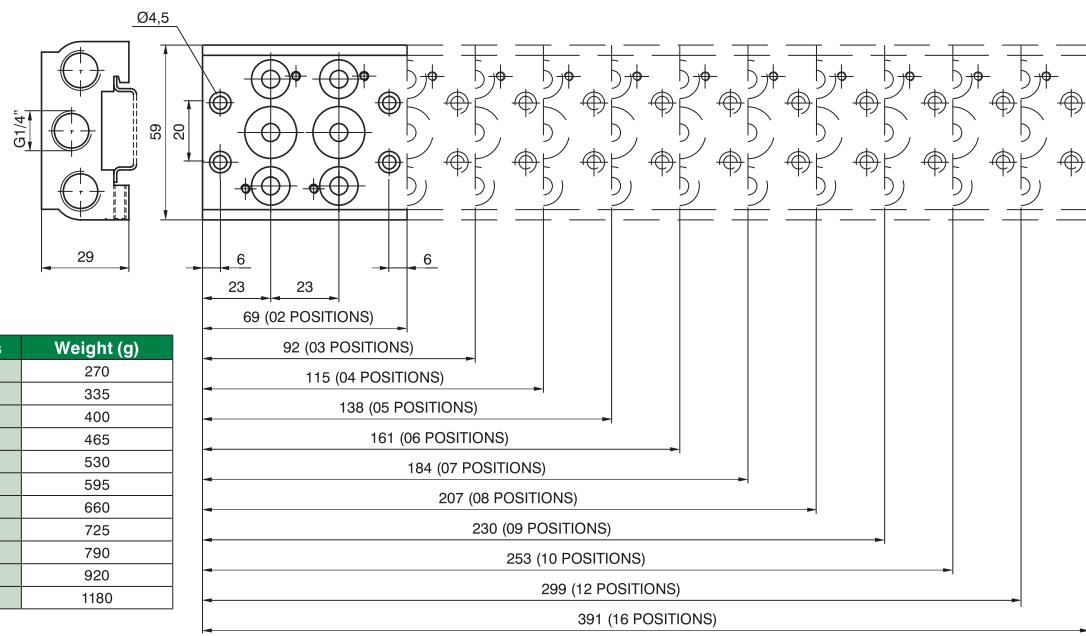


► **Manifold (Valves 5/2 - 5/3)**



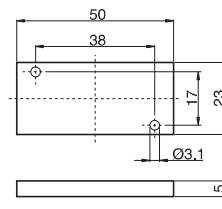
Coding: 888.N

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



► **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

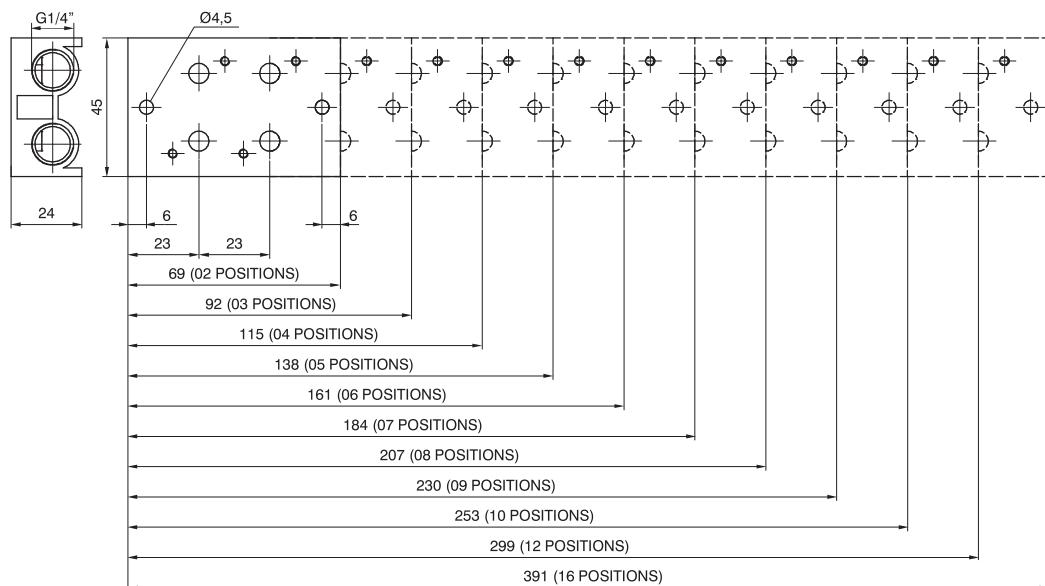
► Manifold (Valves 3/2)



Coding: 8883.N

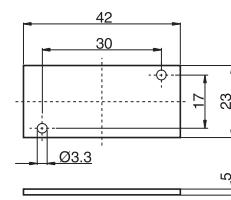
N	NO. POSITIONS
02	2 positions
03	3 positions
04	4 positions
05	5 positions
06	6 positions
07	7 positions
08	8 positions
09	9 positions
10	10 positions
12	12 positions
16	16 positions

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



Spool type valves and solenoid valves

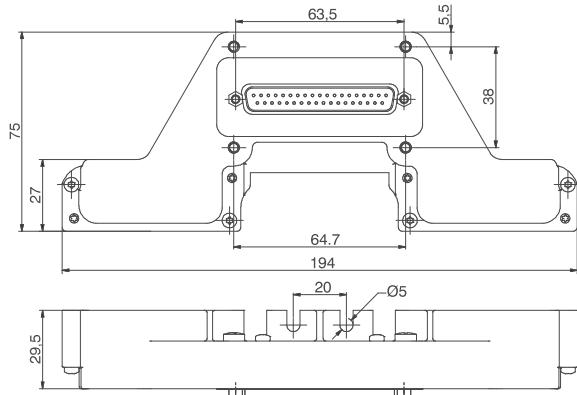
Series 888 - Accessories - Multi-pin connections

1

AIR DISTRIBUTION

► Endplate, 37 Poles IP65

Coding: 888M.37.10

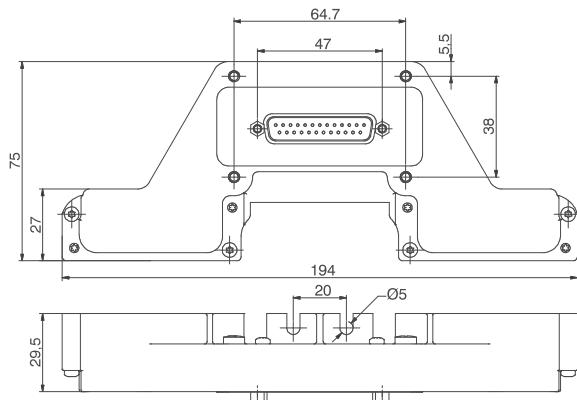


Weight 186 g

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

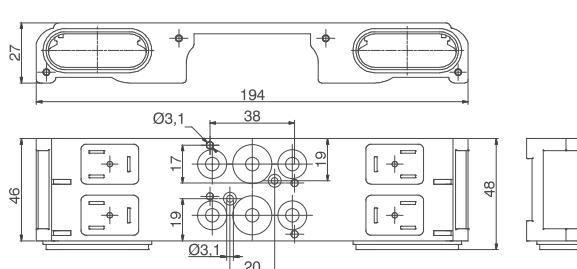


Weight 181 g

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

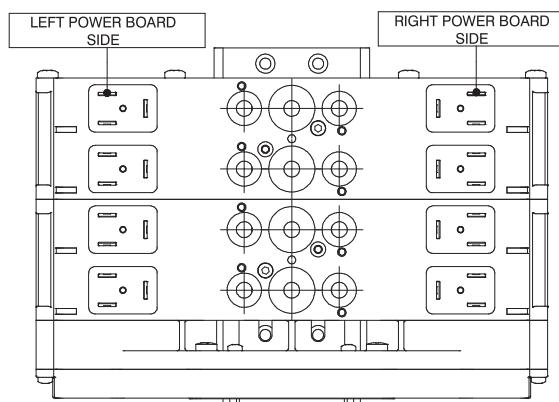


Weight 220 g

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



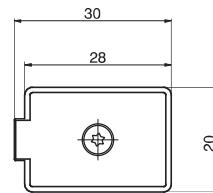
N	NO. POSITIONS
	04 = 4 positions
T	08 = 8 positions
	12 = 12 positions
	16 = 16 positions
	TYPE
	00 = Left
	01 = Right

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

▶ Closing plate



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



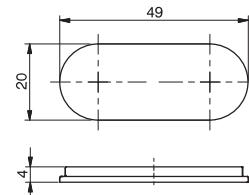
Coding: 888M.22.PC

1

▶ Multi-pin base plug



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



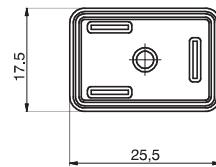
Coding: 888M.T

AIR DISTRIBUTION

▶ Seals



Weight 0,52 g



Coding: 888M.22.G

▶ In line cable complete with connector, IP40



Coding: 2400.C.L.00

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

▶ Cable complete with connector, 25 Poles, IP65



Coding: 2300.25.L.C

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

▶ Cable complete with connector, 37 Poles, IP65



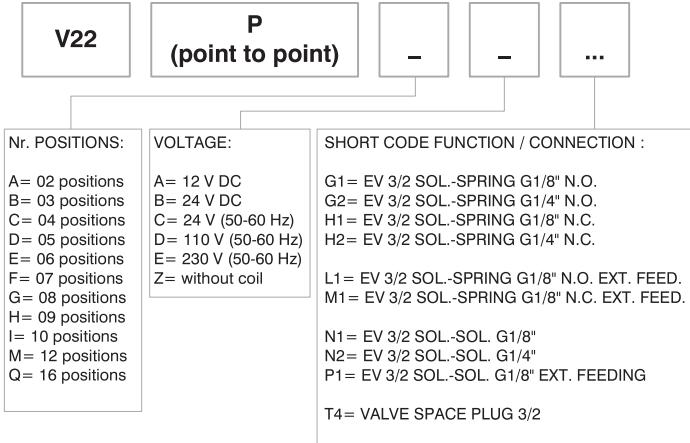
Coding: 2400.37.L.C

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

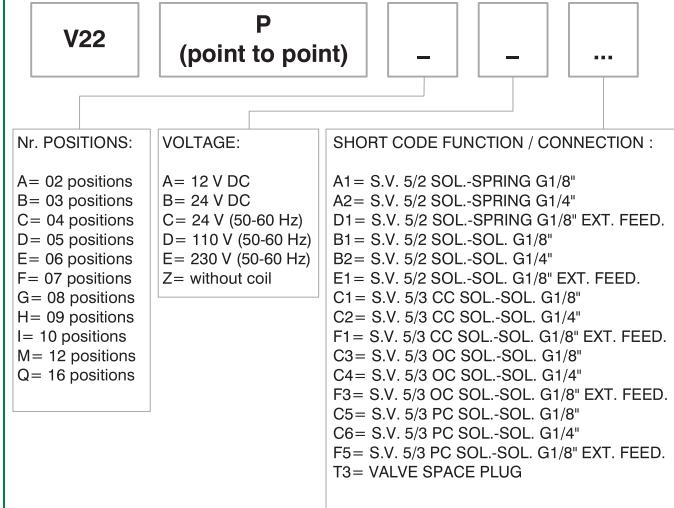


Manifold layout Configuration Point to Point

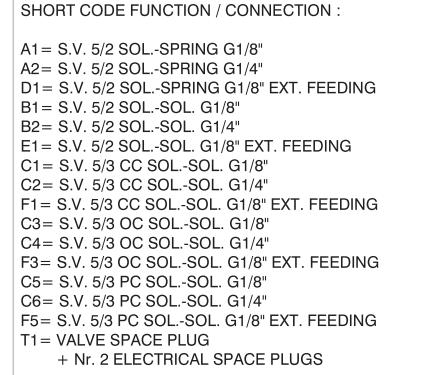
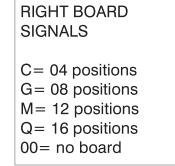
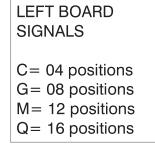
3/2 valves



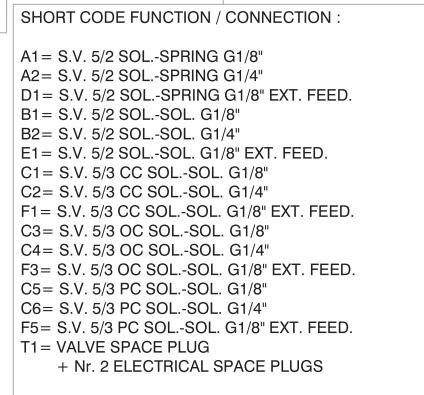
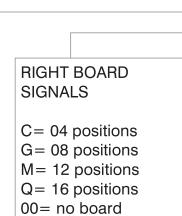
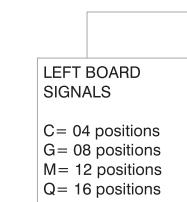
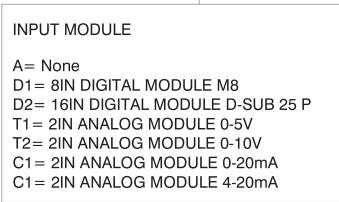
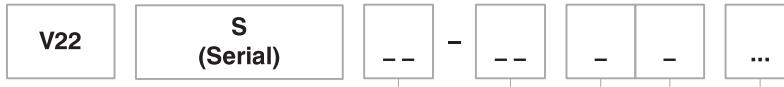
5/2 valves



Manifold layout Configuration Multi-pole



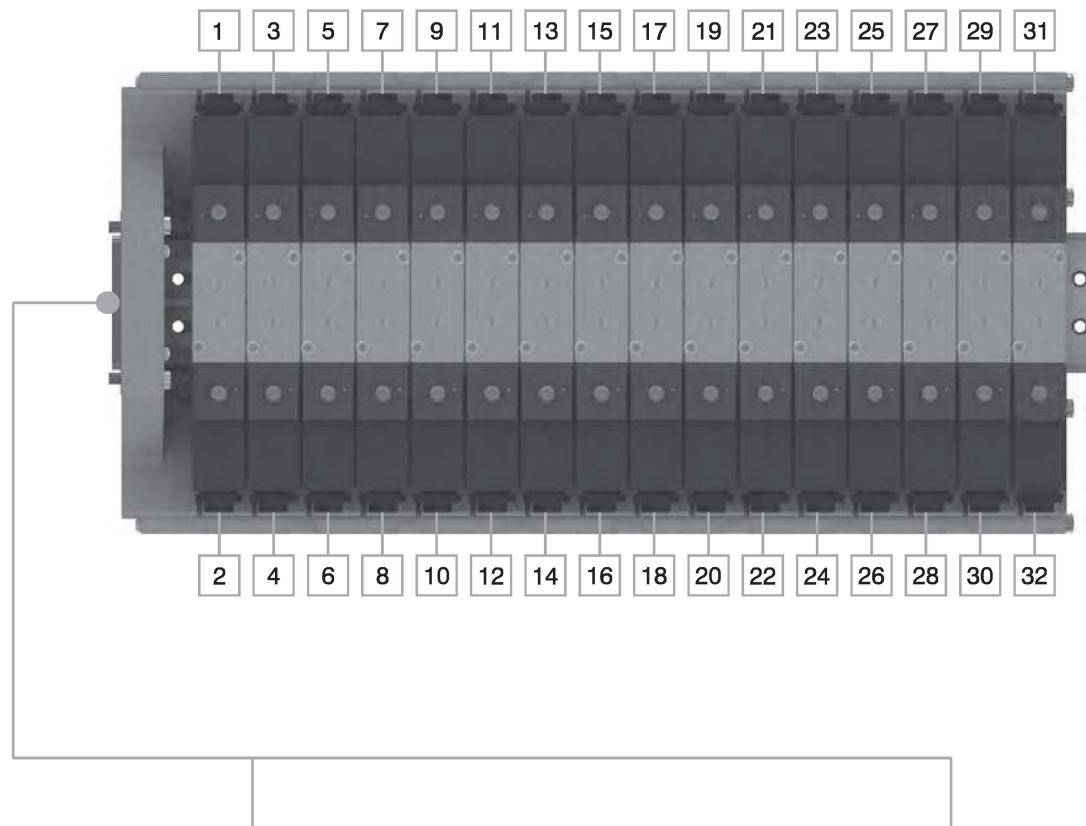
Serial manifold layout (for the serial system node, see the Optyma-F Series)



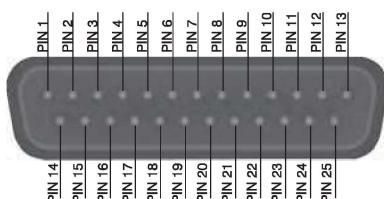
NOTE:

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.

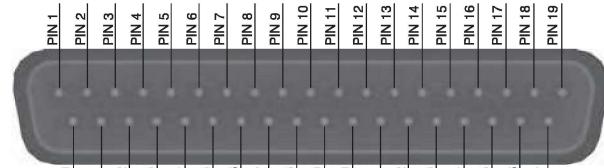


Connector 25 Poles from 1 to 11
Positions E.V. Bistable / Monostable



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

