



## Series 800

The trend towards the miniaturization of components has been consolidated. The use of new technologies makes it possible to manufacture components with high flow rates but extremely compact sizes.

Electric piloting is by means of low-absorption miniature solenoids which are easily connected to the electronic control systems of machines (PLC).

Another object of study have been manifolds and multiple bases for ganged assembly of valves or solenoid valves with option for having outlets 2 and 4 either on the valve body or on the base through threaded holes or integrated quick connections provided.

Versions 3/2 and 5/2 are fitted with pneumatic and electropneumatic controls with resetting by mechanically or pneumatically operated spring, or by pneumatic or electropneumatic operation on the bistable versions.

The basic difference between this type of distributors and the others we produce, based on the spool system, lies in the fact that the seals rest on the spool and are dynamic, instead of being locked into the spool the valve body by means of spacers; by this means a compact size is obtained and the distributors can be slotted into bases and manifolds by means of two screws.

1 AIR DISTRIBUTION

### Construction characteristics

Body	Aluminium
Seals	HNBR
Springs	Stainless steel
Operators	Aluminium
Pistons	Aluminium
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 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 port of the distributor has to be protected in a dusty and dirty environment.

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.

**ATTENTION:** use hydraulic oil class H for lubrication such as CASTROL MAGNA SW32.

### How to order the solenoid valves

Example:

**805.52.0.1.01** Solenoid valves with miniature solenoid 12 V D.C.

List of codes for tensions:

01 = miniature solenoid 12 VDC


02 = miniature solenoid 24 VDC

05 = miniature solenoid 24 VAC

06 = miniature solenoid 110 VAC

07 = miniature solenoid 220 VAC

The electropilot utilized is a 15 mm 3/2 N.C. miniature solenoid with faston and 1.1 mm orifice

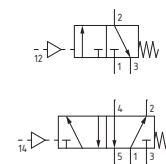
Miniature solenoid homologated are available c  US (see series 300)

**Pneumatic - Spring**

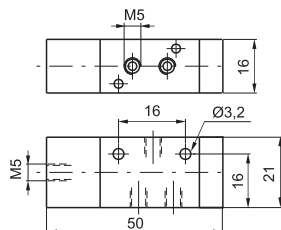
Coding: 805.11.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

TYPE	
32	= 3 ways, 2 positions
52	= 5 ways, 2 positions



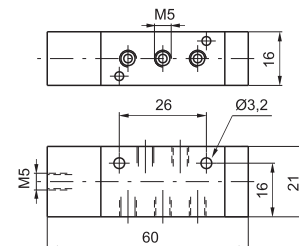
3/2 ways



Weight 45 g  
Minimum pilot pressure 2 bar

805.32.11.1

5/2 ways



Weight 50 g  
Minimum pilot pressure 2 bar

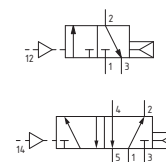
805.52.11.1

**Pneumatic - Differential**

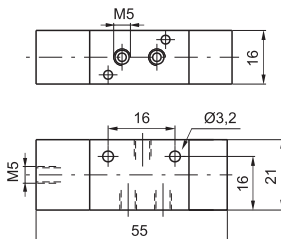
Coding: 805.11.12

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

TYPE	
32	= 3 ways, 2 positions
52	= 5 ways, 2 positions



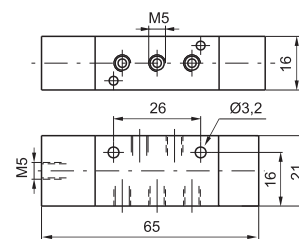
3/2 ways



Weight 50 g  
Minimum pilot pressure 2 bar

805.32.11.12

5/2 ways



Weight 55 g  
Minimum pilot pressure 2 bar

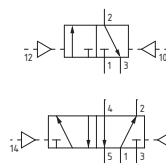
805.52.11.12

**Pneumatic-Pneumatic**

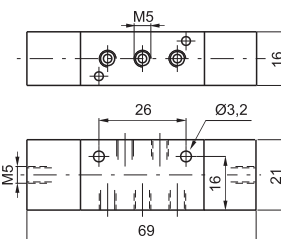
Coding: 805.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

TYPE	
32	= 3 ways, 2 positions
52	= 5 ways, 2 positions



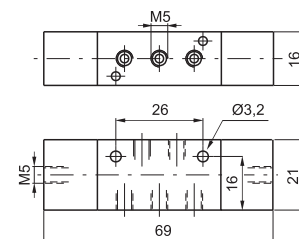
3/2 ways



Weight 55 g  
Minimum pilot pressure 1,5 bar

805.32.11.11

5/2 ways



Weight 60 g  
Minimum pilot pressure 1,5 bar

805.52.11.11

**Solenoid - Spring**

Coding: 805.1.0.1.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5

TYPE	
1	32 = 3 ways, 2 positions 52 = 5 ways, 2 positions
VOLTAGE	
V	01 = 12V D.C. 02 = 24V D.C. 05 = 24V A.C. 06 = 110V A.C. 07 = 230V A.C.

3/2 ways

Weight 80 g  
Minimum working pressure 2 bar  
805.32.0.1.1

5/2 ways

Weight 85 g  
Minimum working pressure 2 bar  
805.52.0.1.1

**Solenoid - Differential**

Coding: 805.1.0.12.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5

TYPE	
1	32 = 3 ways, 2 positions 52 = 5 ways, 2 positions
VOLTAGE	
V	01 = 12V D.C. 02 = 24V D.C. 05 = 24V A.C. 06 = 110V A.C. 07 = 230V A.C.

3/2 ways

Weight 85 g  
Minimum working pressure 2 bar  
805.32.0.12.1

5/2 ways

Weight 90 g  
Minimum working pressure 2 bar  
805.52.0.12.1

**Solenoid - Solenoid**

Coding: 805.1.0.0.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5

TYPE	
1	32 = 3 ways, 2 positions 52 = 5 ways, 2 positions
VOLTAGE	
V	01 = 12V D.C. 02 = 24V D.C. 05 = 24V A.C. 06 = 110V A.C. 07 = 230V A.C.

3/2 ways

Weight 120 g  
Minimum working pressure 1,5 bar  
805.32.0.0.1

5/2 ways

Weight 125 g  
Minimum working pressure 1,5 bar  
805.52.0.0.1

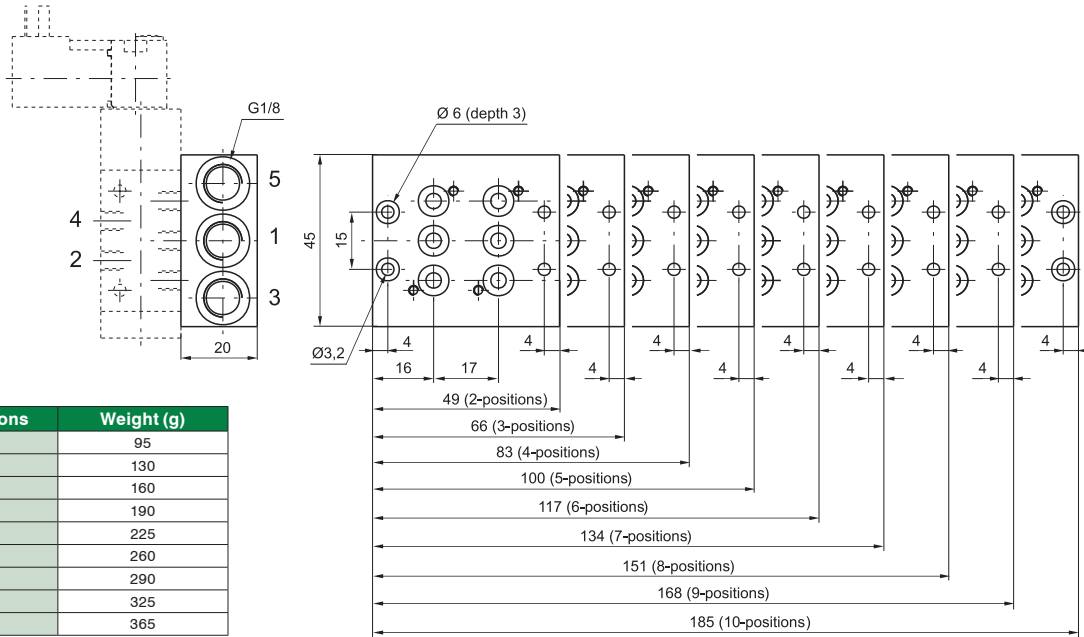
1 AIR DISTRIBUTION

Collectors

Coding: 805.N

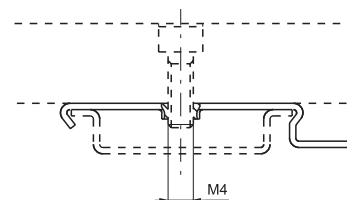


NO. POSITIONS	
02	= 2 positions
03	= 3 positions
04	= 4 positions
05	= 5 positions
<b>N</b>	<b>06 = 6 positions</b>
	07 = 7 positions
	08 = 8 positions
	09 = 9 positions
	10 = 10 positions



Clip

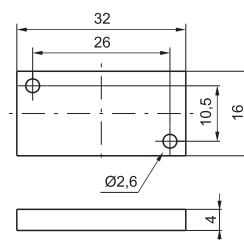
Coding: 800.00



Weight 5 g  
(for mounting the distributors groups on guide DIN 46277/3)

Closing plate

Coding: 805.00



Weight 15 g



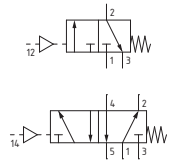
**Pneumatic - Spring**

Coding: 808.11.1

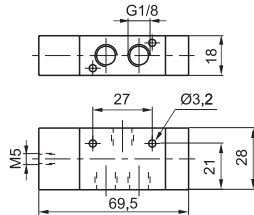
**Operational characteristics**

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (NI/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

TYPE	
32 = 3 ways, 2 positions	
52 = 5 ways, 2 positions	



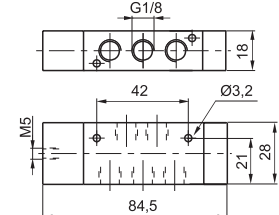
3/2 ways



Weight 95 g  
Minimum pilot pressure 2 bar

808.32.11.1

5/2 ways



Weight 100 g  
Minimum pilot pressure 2 bar

808.52.11.1

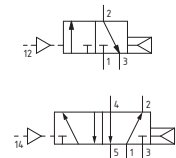
**Pneumatic - Differential**

Coding: 808.11.12

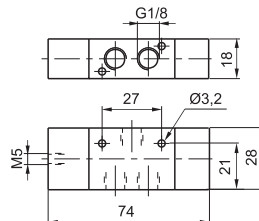
**Operational characteristics**

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (NI/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

TYPE	
32 = 3 ways, 2 positions	
52 = 5 ways, 2 positions	



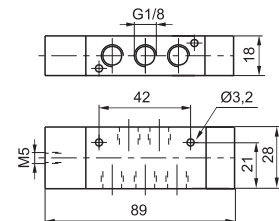
3/2 ways



Weight 105 g  
Minimum pilot pressure 2 bar

808.32.11.12

5/2 ways



Weight 110 g  
Minimum pilot pressure 2 bar

808.52.11.12

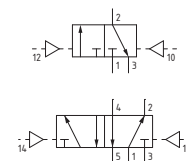
**Pneumatic-Pneumatic**

Coding: 808.11.11

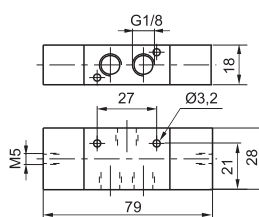
**Operational characteristics**

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (NI/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

TYPE	
32 = 3 ways, 2 positions	
52 = 5 ways, 2 positions	



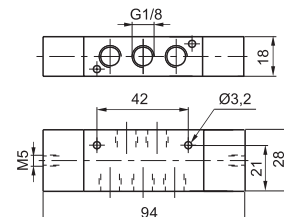
3/2 ways



Weight 115 g  
Minimum pilot pressure 1,5 bar

808.32.11.11

5/2 ways



Weight 120 g  
Minimum pilot pressure 1,5 bar

808.52.11.11

AIR DISTRIBUTION 1

**Pneumatic-Pneumatic 5/3**

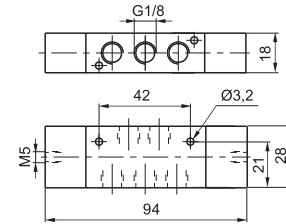
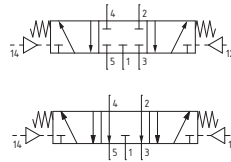
Coding: 808.53.F.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"
Pilot ports size	M5

FUNCTION	
F	31 = Closed centres
	32 = Open centres



Weight 125 g  
Minimum pilot pressure 3 bar



1  
AIR DISTRIBUTION

**Solenoid - Spring**

Coding: 808.1.0.1.V

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

TYPE	
1	32 = 3 ways, 2 positions 52 = 5 ways, 2 positions
VOLTAGE	
1	01 = 12V D.C. 02 = 24V D.C.
2	05 = 24V A.C. 06 = 110V A.C. 07 = 230V A.C.

3/2 ways

Weight 130 g  
Minimum working pressure 2 bar  
808.32.0.1.V

5/2 ways

Weight 135 g  
Minimum working pressure 2 bar  
808.52.0.1.V

**Solenoid - Differential**

Coding: 808.1.0.12.V

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

TYPE	
1	32 = 3 ways, 2 positions 52 = 5 ways, 2 positions
VOLTAGE	
1	01 = 12V D.C. 02 = 24V D.C.
2	05 = 24V A.C. 06 = 110V A.C. 07 = 230V A.C.

3/2 ways

Weight 140 g  
Minimum working pressure 2 bar  
808.32.0.12.V

5/2 ways

Weight 145 g  
Minimum working pressure 2 bar  
808.52.0.12.V

**Solenoid - Solenoid**

Coding: 808.1.0.0.V

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

TYPE	
1	32 = 3 ways, 2 positions 52 = 5 ways, 2 positions
VOLTAGE	
1	01 = 12V D.C. 02 = 24V D.C.
2	05 = 24V A.C. 06 = 110V A.C. 07 = 230V A.C.

3/2 ways

Weight 185 g  
Minimum working pressure 1,5 bar  
808.32.0.0.V

5/2 ways

Weight 190 g  
Minimum working pressure 1,5 bar  
808.52.0.0.V

AIR DISTRIBUTION

1

**Solenoid - Solenoid 5/3**

Coding: 808.53.F.0.0.V

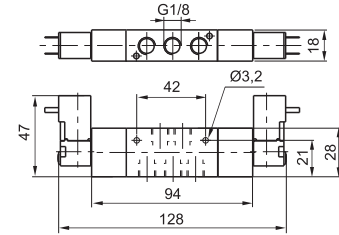
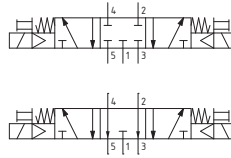
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

FUNCTION	
F	31 = Closed centres
	32 = Open centres

VOLTAGE	
V	01 = 12V D.C.
	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230V A.C.



Weight 190 g  
Minimum working pressure 3 bar



1  
AIR DISTRIBUTION



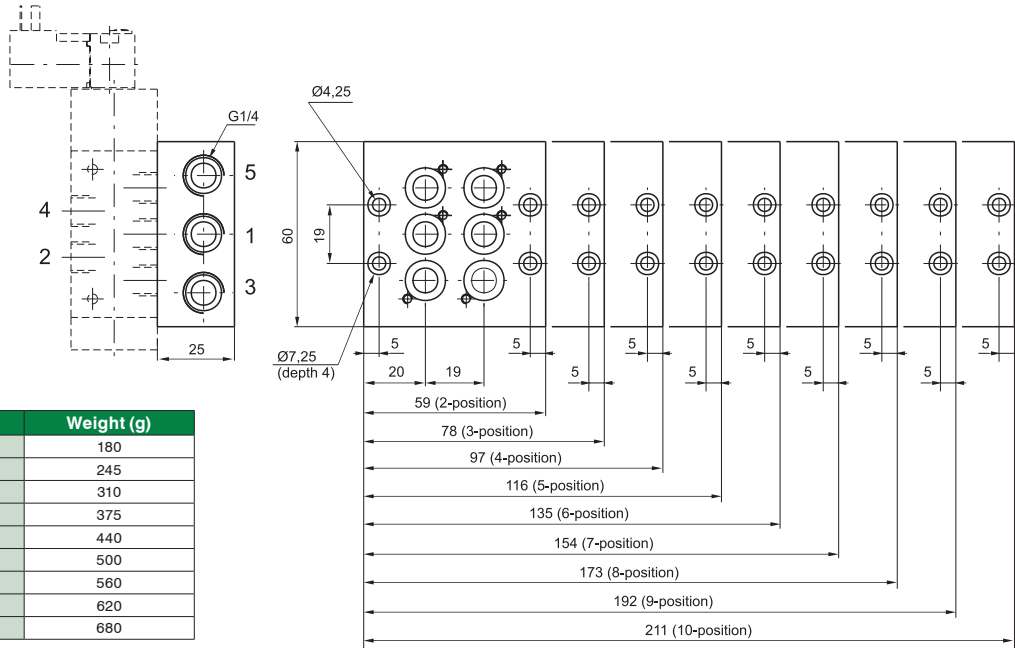
**Collectors**

Coding: 808.N



NO. POSITIONS	
02	= 2 positions
03	= 3 positions
04	= 4 positions
05	= 5 positions
<b>N</b> 06	= 6 positions
07	= 7 positions
08	= 8 positions
09	= 9 positions
10	= 10 positions

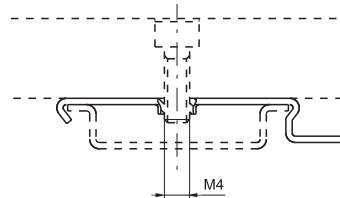
AIR DISTRIBUTION



No. positions	Weight (g)
02	180
03	245
04	310
05	375
06	440
07	500
08	560
09	620
10	680

**Clip**

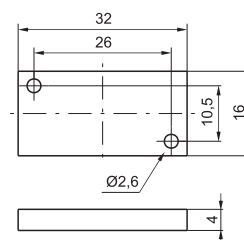
Coding: 800.00



Weight 5 g  
(for mounting the distributors groups on guide DIN 46277/3)

**Closing plate**

Coding: 808.00



Weight 65 g