Series 800

General

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 intoo 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.

Construction characteristics

Body	Aluminium
Operators	Aluminium
Seals	HNBR
Spools	Aluminium
Springs	Stainless steel
Pistons	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 MAGNA GC 32 (Castrol).

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

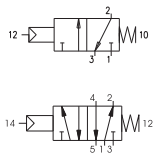
The electropilot utilized is a 15 mm 3/2 N.C. miniature solenoid with faston and 1.1 mm orifice
Miniature solenoid homologated are available (see series 300)

Pneumatic - Spring

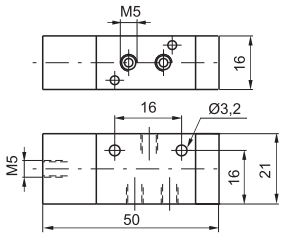
Coding: 805.Ⓣ.11.1

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 (Nl/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways



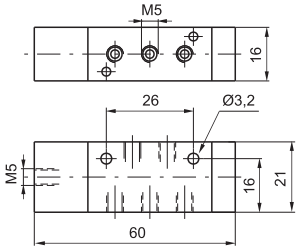
3 ways



Weight 45 g
Minimum piloting pressure 2 bar

805.32.11.1

5 ways



Weight 50 g
Minimum piloting pressure 2 bar

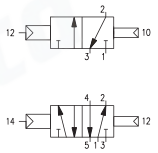
805.52.11.1

Pneumatic - Differential

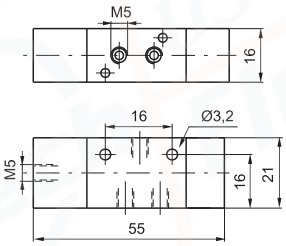
Coding: 805.Ⓣ.11.12

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 (Nl/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways



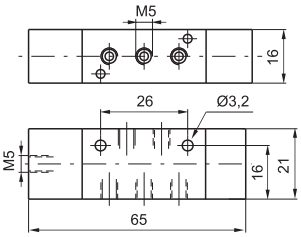
3 ways



Weight 50 g
Minimum piloting pressure 2 bar

805.32.11.12

5 ways



Weight 55 g
Minimum piloting pressure 2 bar

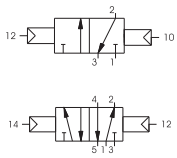
805.52.11.12

Pneumatic - Pneumatic

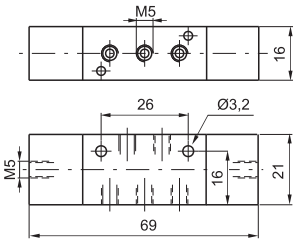
Coding: 805.Ⓣ.11.11

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 (Nl/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways



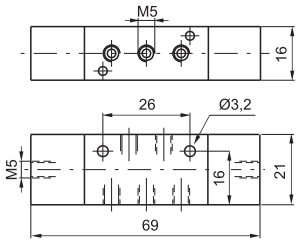
3 ways



Weight 55 g
Minimum piloting pressure 1,5 bar

805.32.11.11

5 ways 2 connections



Weight 60 g
Minimum piloting pressure 1,5 bar

805.52.11.11

Solenoid - Spring

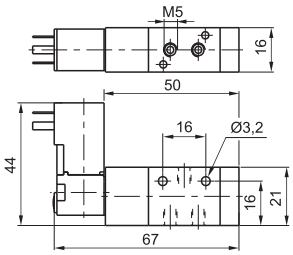
Coding: 805.Ⓣ.0.1.Ⓥ

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 Δp=1 (Nl/min)	160
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

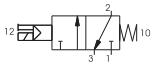
Ⓥ	VOLTAGE
	01 = 12V D.C.
	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

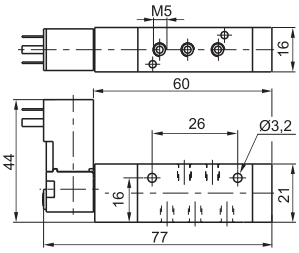


Weight 80 g
Minimum working pressure 2 bar

805.32.0.1.Ⓥ

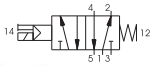


5 ways



Weight 85 g
Minimum working pressure 2 bar

805.52.0.1.Ⓥ



Solenoid - Differential

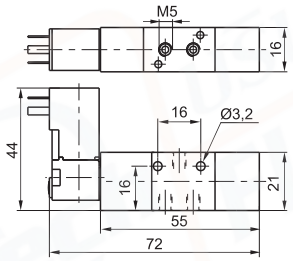
Coding: 805.Ⓣ.0.12.Ⓥ

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 Δp=1 (Nl/min)	160
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

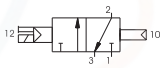
Ⓥ	VOLTAGE
	01 = 12V D.C.
	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

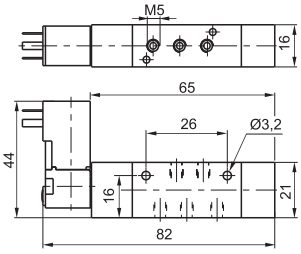


Weight 85 g
Minimum working pressure 2 bar

805.32.0.12.Ⓥ

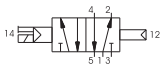


5 ways



Weight 90 g
Minimum working pressure 2 bar

805.52.0.12.Ⓥ



Solenoid - Solenoid

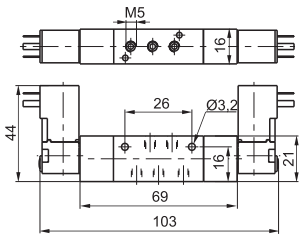
Coding: 805.Ⓣ.0.0.Ⓥ

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 Δp=1 (Nl/min)	160
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

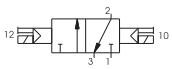
Ⓥ	VOLTAGE
	01 = 12V D.C.
	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

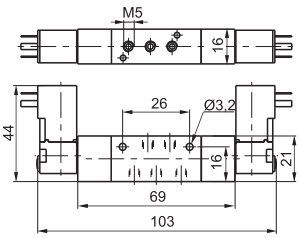


Weight 120 g
Minimum working pressure 1,5 bar

805.32.0.0.Ⓥ



5 ways



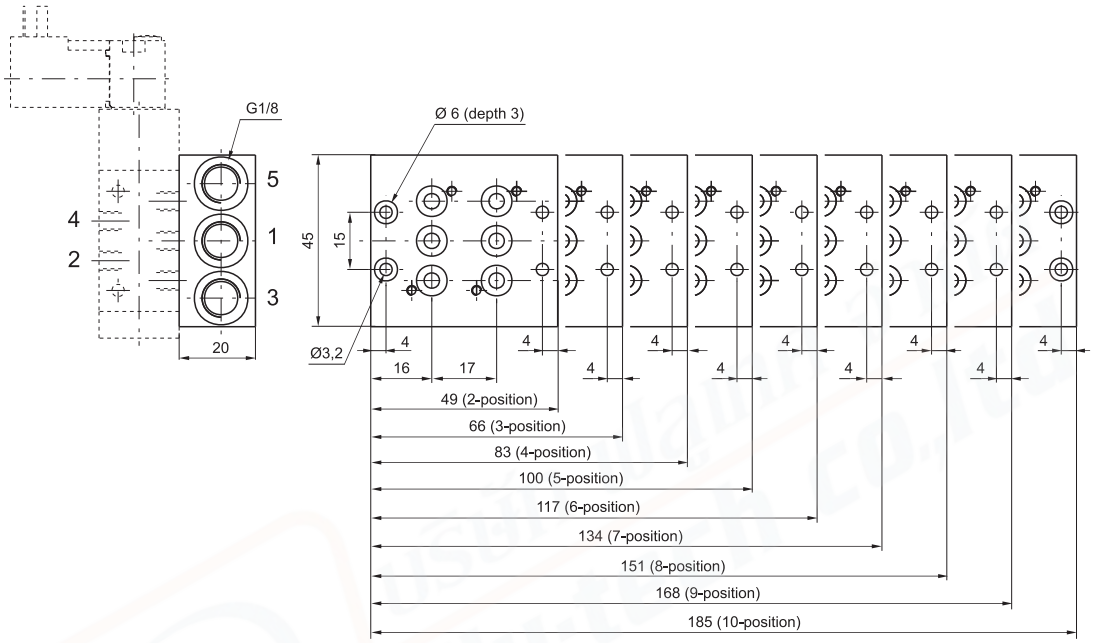
Weight 125 g
Minimum working pressure 1,5 bar

805.52.0.0.Ⓥ

Collectors

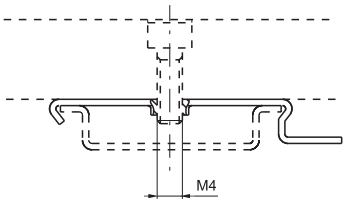
Coding: 805.Ⓝ

	N. POSITIONS
Ⓝ	**02** = 2 positions (weight 95 g)
	03 = 3 positions (weight 130 g)
	04 = 4 positions (weight 160 g)
	05 = 5 positions (weight 190 g)
	06 = 6 positions (weight 225 g)
	07 = 7 positions (weight 260 g)
	08 = 8 positions (weight 290 g)
	09 = 9 positions (weight 325 g)
	10 = 10 positions (weight 365 g)



Clip

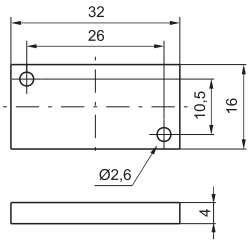
Coding: 800.00



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

Closing plate

Coding: 805.00



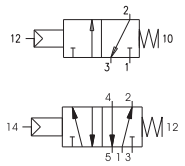
weight 15 g

Pneumatic - Spring

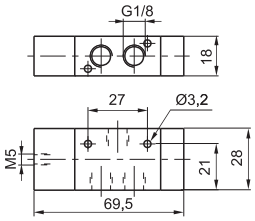
Coding: 808.Ⓣ.11.1

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 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways



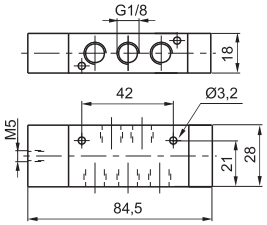
Pneumatic - Spring



Weight 95 g
Minimum piloting pressure 2 bar

808.32.11.1

Pneumatic - Spring



Weight 100 g
Minimum piloting pressure 2 bar

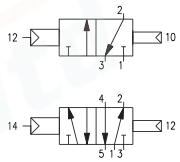
808.52.11.1

Pneumatic - Differential

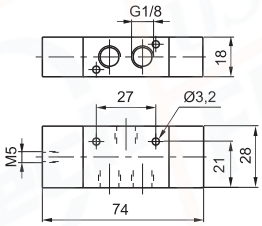
Coding: 808.Ⓣ.11.12

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 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways



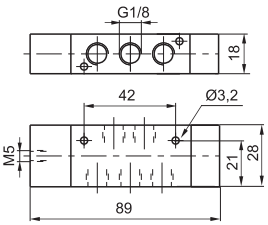
Pneumatic - Differential external



Weight 105 g
Minimum piloting pressure 2 bar

808.32.11.12

Pneumatic - Differential external



Weight 110 g
Minimum piloting pressure 2 bar

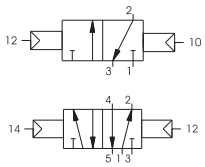
808.52.11.12

Pneumatic - Pneumatic

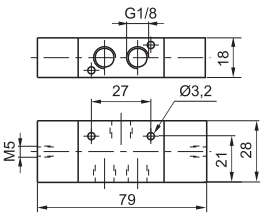
Coding: 808.Ⓣ.11.11

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 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways



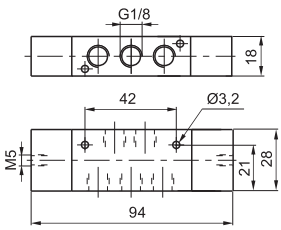
Pneumatic-pneumatic



Weight 115 g
Minimum piloting pressure 1,5 bar

808.32.11.11

Pneumatic-pneumatic



Weight 120 g
Minimum piloting pressure 1,5 bar

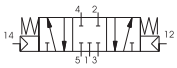
808.52.11.11

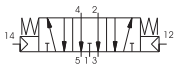
Pneumatic - Pneumatic

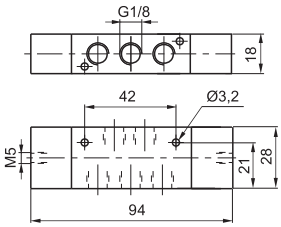
Coding: 808.53.Ⓣ.11.11

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 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"
Pilot ports size	M5

Ⓣ	TYPE
	31 = Closed centres
	32 = Open centres







Weight 125 g
Minimum piloting pressure 3 bar

Solenoid - Spring

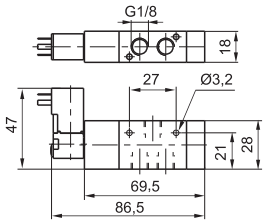
Coding: 808.Ⓣ.0.1.Ⓥ

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 Δp=1 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

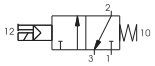
Ⓥ	VOLTAGE
	01 = 12V D.C.
	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

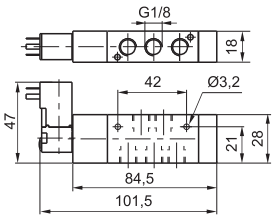


Weight 130 g
Minimum working pressure 2 bar

808.32.0.1.Ⓥ

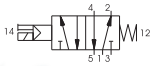


5 ways



Weight 135 g
Minimum working pressure 2 bar

808.52.0.1.Ⓥ



Solenoid - Differential

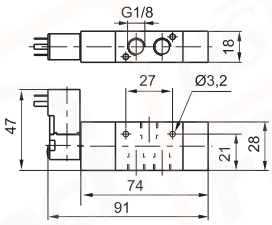
Coding: 808.Ⓣ.0.12.Ⓥ

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 Δp=1 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

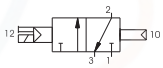
Ⓥ	VOLTAGE
	01 = 12V D.C.
	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

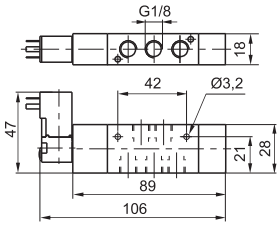


Weight 140 g
Minimum working pressure 2 bar

808.32.0.12.Ⓥ

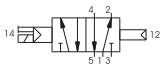


5 ways



Weight 145 g
Minimum working pressure 2 bar

808.52.0.12.Ⓥ



Solenoid - Solenoid

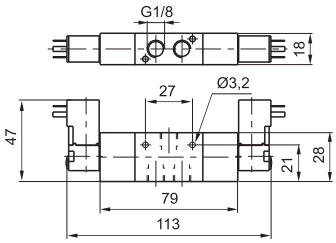
Coding: 808.Ⓣ.0.0.Ⓥ

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 Δp=1 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

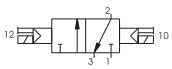
Ⓥ	VOLTAGE
	01 = 12V D.C.
	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

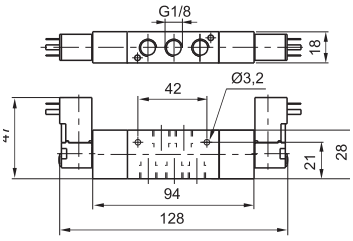


Weight 185 g
Minimum working pressure 1,5 bar

808.32.0.0.Ⓥ



5 ways



Weight 190 g
Minimum working pressure 1,5 bar

808.52.0.0.Ⓥ

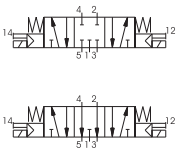
Solenoid - Solenoid 5 ways 3 connections

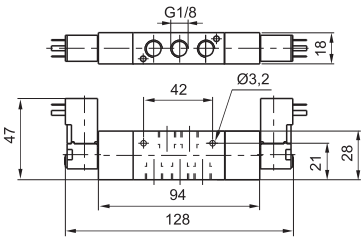
Coding: 808.53.Ⓣ.0.0.Ⓥ

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 Δp=1 (Nl/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

	TYPE
Ⓣ	**31** = Closed centres
	32 = Open centres

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



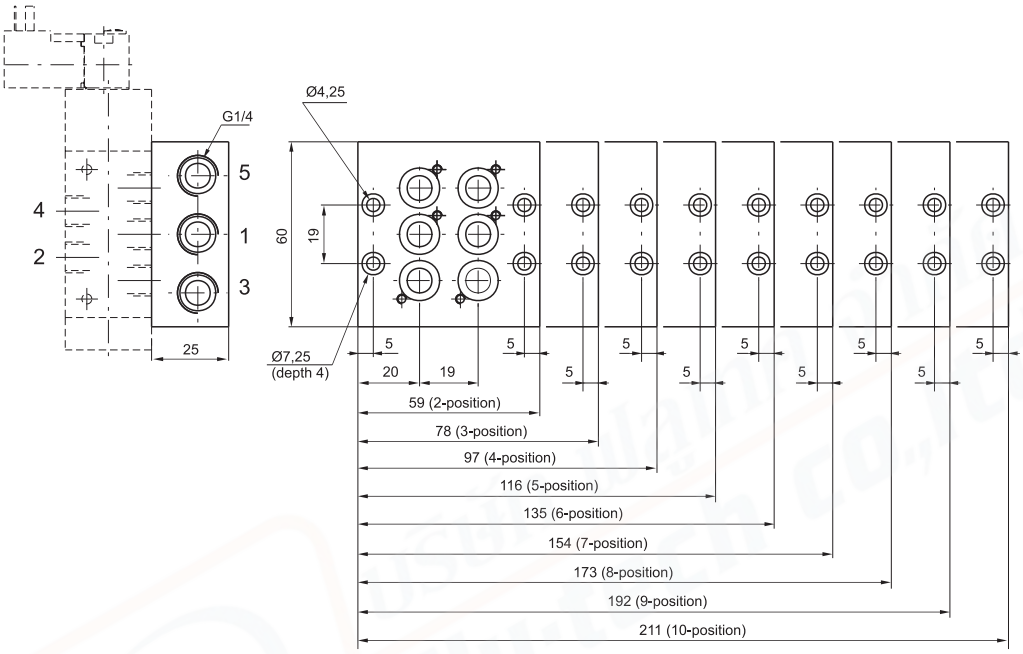


Weight 190 g
Minimum working pressure 3 bar

Collectors

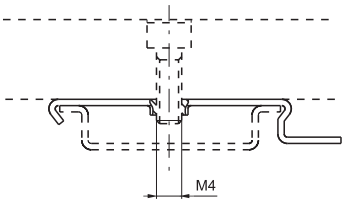
Coding: 808.Ⓝ

	N. POSITIONS
Ⓝ	**02** = 2 positions (weight 180 g)
	03 = 3 positions (weight 245 g)
	04 = 4 positions (weight 310 g)
	05 = 5 positions (weight 375 g)
	06 = 6 positions (weight 440 g)
	07 = 7 positions (weight 500 g)
	08 = 8 positions (weight 560 g)
	09 = 9 positions (weight 620 g)
	10 = 10 positions (weight 680 g)



Clip

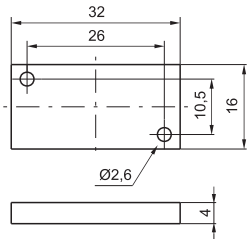
Coding: 800.00



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

Closing plate

Coding: 808.00



Weight 65 g