

Pneumatic - Spring

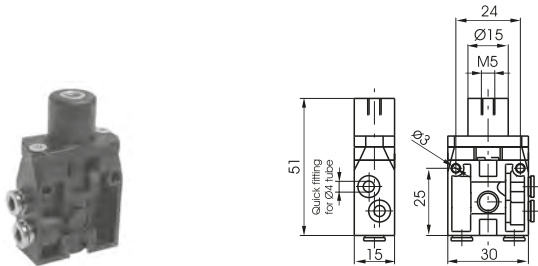
Coding: 104. **T**.11.1. **W**. **F**

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 (l/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube
Pilot ports size	M5

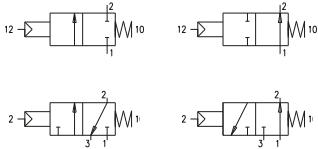
<b>T</b>	TYPE
	22 = 2 ways
	32 = 3 ways
<b>W</b>	CONNECTION TYPE
	L = Lateral
	P = Rear

<b>F</b>	FUNCTION
	A = Normally Open
	C = Normally Closed

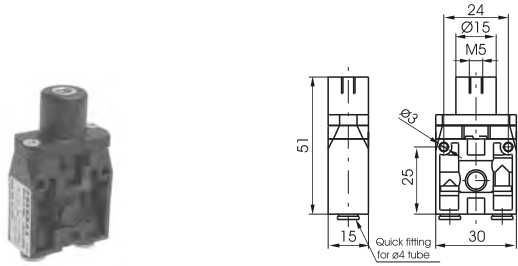
2/2 - 3/2 - Lateral connections



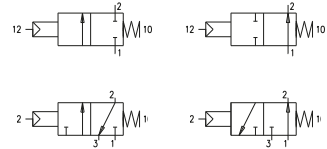
Weight 25 g  
Minimum piloting pressure 2,5 bar  
104.22.11.1.L. **F**



2/2 - 3/2 - Rear connections



Weight 25 g  
Minimum piloting pressure 2,5 bar  
104.32.11.1.P. **F**



### Pneumatic - Spring

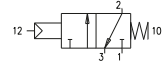
Coding: 105.11.1

#### Operational characteristics

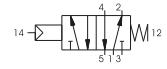
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

#### TYPE

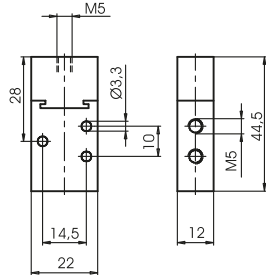
32 = 3 ways  
52 = 5 ways



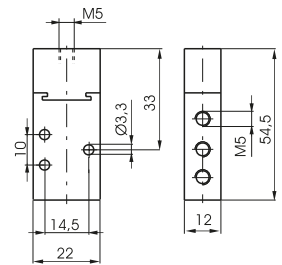
105.32.11.1



105.52.11.1



Weight 90 g  
Minimum piloting pressure 2,5 bar



Weight 100 g  
Minimum piloting pressure 2,5 bar

### Pneumatic - Differential external

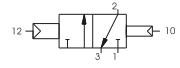
Coding: 105.11.12

#### 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 $\Delta p=1$ (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

#### TYPE

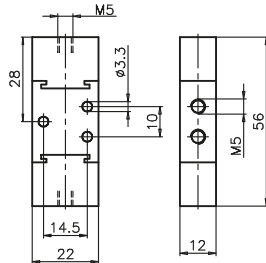
32 = 3 ways  
52 = 5 ways



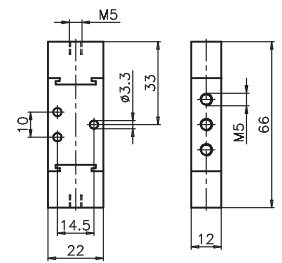
105.32.11.12



105.52.11.12



Weight 110 g  
Minimum piloting pressure 2,5 bar



Weight 120 g  
Minimum piloting pressure 2,5 bar

### Pneumatic - Pneumatic

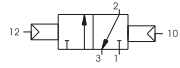
Coding: 105.11.11

#### 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)	120
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

#### TYPE

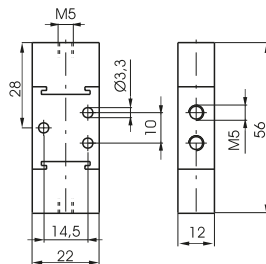
32 = 3 ways  
52 = 5 ways



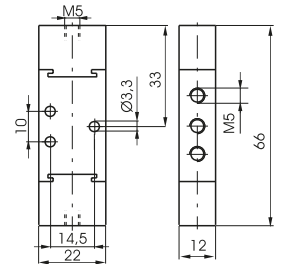
105.32.11.11



105.52.11.11



Weight 110 g  
Minimum piloting pressure 2,5 bar



Weight 120 g  
Minimum piloting pressure 2,5 bar

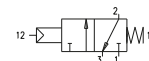
## Pneumatic - Spring

Coding: 228.11.1

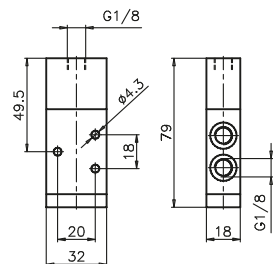
### Operational characteristics

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways



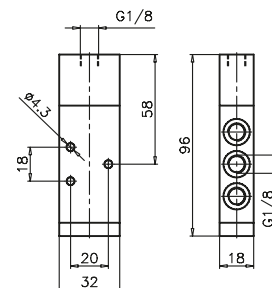
3 ways



Weight 110 g  
Minimum piloting pressure 2,5 bar

228.32.11.1

5 ways



Weight 130 g  
Minimum piloting pressure 2,5 bar

228.52.11.1

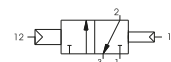
## Pneumatic - Differential external

Coding: 228.11.12

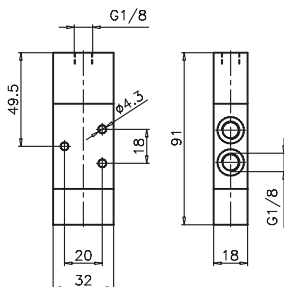
### Operational characteristics

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways



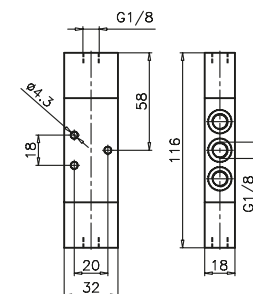
3 ways



Weight 140 g  
Minimum piloting pressure 2,5 bar

228.32.11.12

5 ways



Weight 160 g  
Minimum piloting pressure 2,5 bar

228.52.11.12

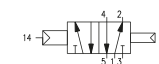
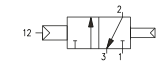
## Pneumatic - Differential self aligned

Coding: 228.11.12/1

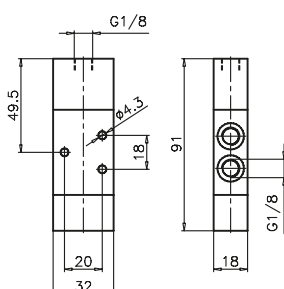
### Operational characteristics

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways



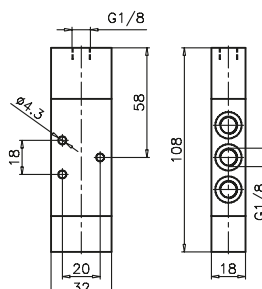
3 ways



Weight 130 g  
Minimum piloting pressure 2,5 bar

228.32.11.12/1

5 ways



Weight 150 g  
Minimum piloting pressure 2,5 bar

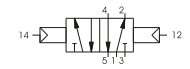
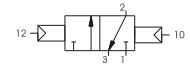
228.52.11.12/1

## Pneumatic - Pneumatic

Coding: 228.11.11

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)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways

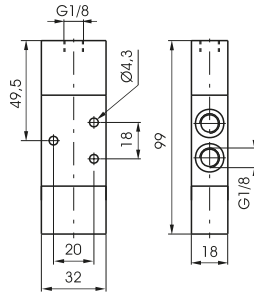


3 ways



Weight 140 g  
Minimum piloting pressure 2 bar

228.32.11.11

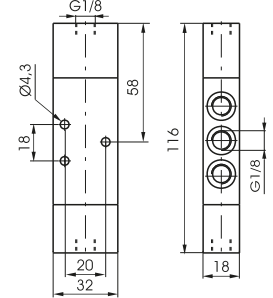


5 ways



Weight 160 g  
Minimum piloting pressure 2 bar

228.52.11.11

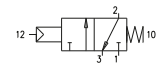


## Amplified pneumatic - Spring

Coding: 228.13.1

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways

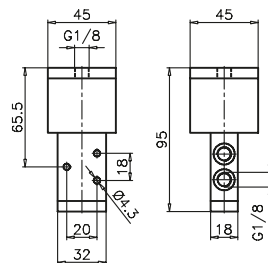


3 ways



Weight 260 g  
Minimum piloting pressure 0,5 bar

228.32.13.1

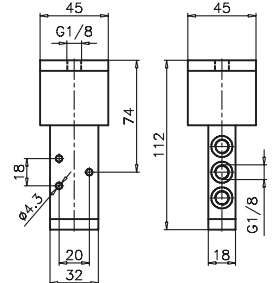


5 ways



Weight 290 g  
Minimum piloting pressure 0,5 bar

228.52.13.1



## Pneumatic - Pneumatic 5 ways 3 connections

Coding: 228.53.11.11

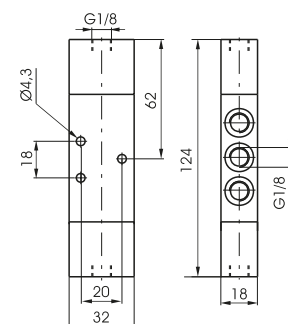
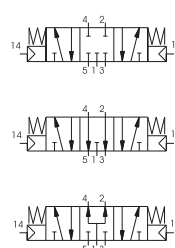
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	410
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

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



Weight 180 g  
Minimum piloting pressure 3 bar

228.53.11.11

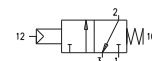


## Pneumatic - Spring

Coding: 224.11.1

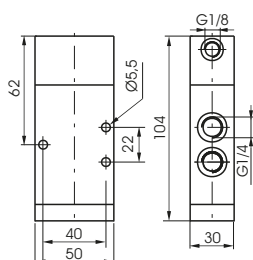
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (l/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

TYPE	
32 = 3 ways	
52 = 5 ways	



Weight 370 g  
Minimum piloting pressure 2,5 bar

224.32.11.1

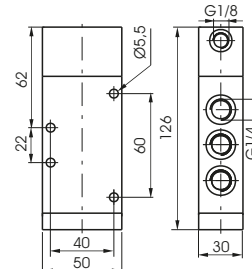


5 ways



Weight 450 g  
Minimum piloting pressure 2,5 bar

224.52.11.1

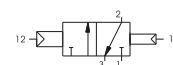


## Pneumatic - Differential external

Coding: 224.11.12

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	11
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (l/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

TYPE	
32 = 3 ways	
52 = 5 ways	

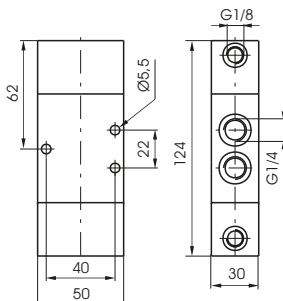


3 ways



Weight 480 g  
Minimum piloting pressure 2,5 bar

224.32.11.12

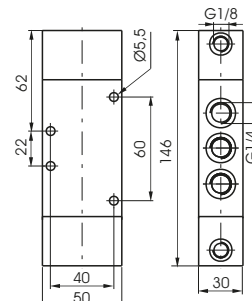


5 ways



Weight 550 g  
Minimum piloting pressure 2,5 bar

224.52.11.12

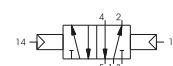
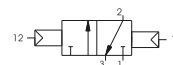


## Pneumatic - Pneumatic

Coding: 224.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	12
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (l/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

TYPE	
32 = 3 ways	
52 = 5 ways	

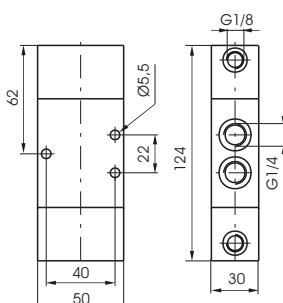


3 ways



Weight 470 g  
Minimum piloting pressure 2 bar

224.32.11.11

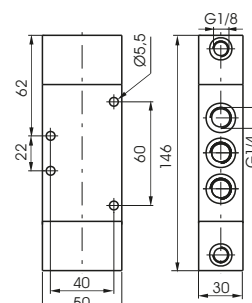


5 ways



Weight 540 g  
Minimum piloting pressure 2 bar

224.52.11.11

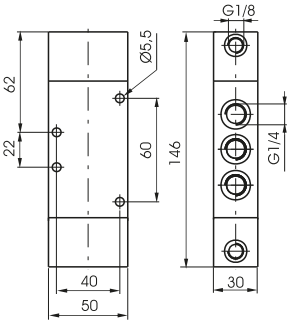
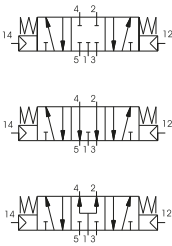


Pneumatic - Pneumatic 5 ways 3 connections

Coding: 224.53.F.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	13
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1280
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

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



Weight 550 g  
 Minimum piloting pressure 3 bar

## Pneumatic - Spring

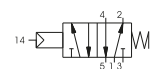
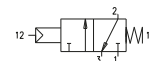
Coding: 212.11.1

### Operational characteristics

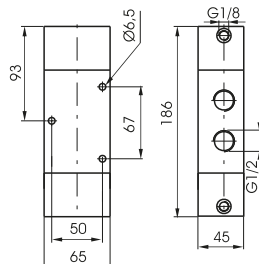
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

### TYPE

① 32 = 3 ways  
52 = 5 ways



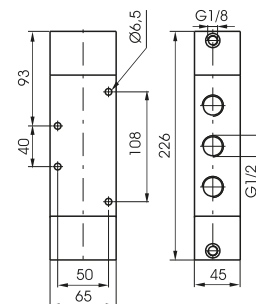
3 ways



Weight 1110 g  
Minimum piloting pressure 2,5 bar

212.32.11.1

5 ways



Weight 1390 g  
Minimum piloting pressure 2,5 bar

212.52.11.1

## Pneumatic - Differential external

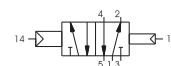
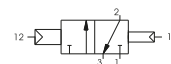
Coding: 212.11.12

### Operational characteristics

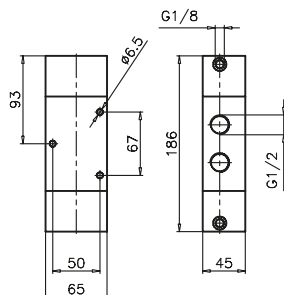
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

### TYPE

① 32 = 3 ways  
52 = 5 ways



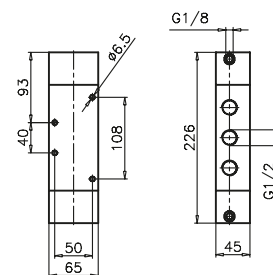
3 ways



Weight 1380 g  
Minimum piloting pressure 2,5 bar

212.32.11.12

5 ways



Weight 1660 g  
Minimum piloting pressure 2,5 bar

212.52.11.12

## Pneumatic - Pneumatic

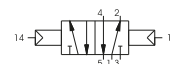
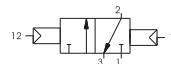
Coding: 212.11.11

### Operational characteristics

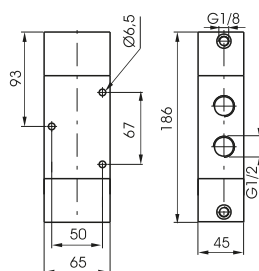
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

### TYPE

① 32 = 3 ways  
52 = 5 ways



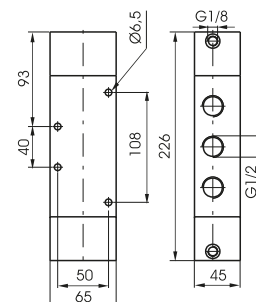
3 ways



Weight 1350 g  
Minimum piloting pressure 2 bar

212.32.11.11

5 ways



Weight 1630 g  
Minimum piloting pressure 2 bar

212.52.11.11

Pneumatic - Pneumatic 5 ways 3 connections

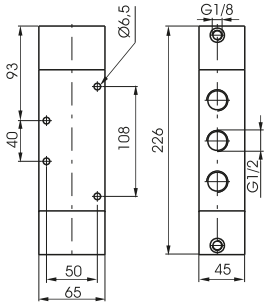
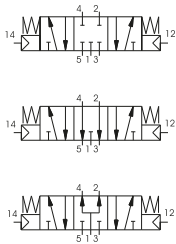
Coding: 212.53.F.11.11

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 Δp=1 (l/min)	3000
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

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



Weight 1650 g  
Minimum piloting pressure 3 bar



## Pneumatic - Differential external

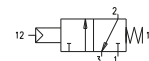
Coding: 212/2.11.1

### 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 $\Delta p=1$ (NI/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

### TYPE

32 = 3 ways  
52 = 5 ways

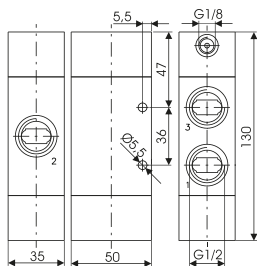


3 ways



Weight 524 g  
Minimum piloting pressure 2,5 bar

212/2.32.11.1

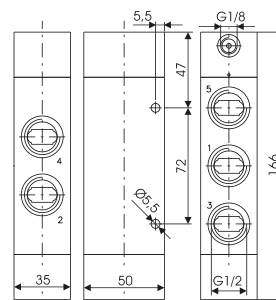


5 ways



Weight 644 g  
Minimum piloting pressure 2,5 bar

212/2.52.11.1



## Pneumatic - Differential self aligned

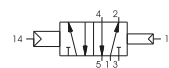
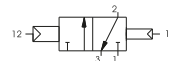
Coding: 212/2.11.12

### 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 $\Delta p=1$ (NI/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

### TYPE

32 = 3 ways  
52 = 5 ways

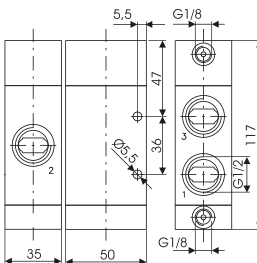


3 ways



Weight 464 g  
Minimum piloting pressure 2,5 bar

212/2.32.11.12

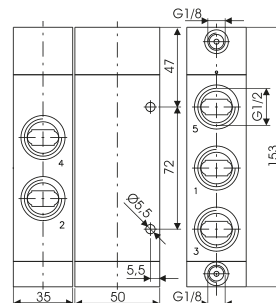


5 ways



Weight 586 g  
Minimum piloting pressure 2,5 bar

212/2.52.11.12



## Pneumatic - Pneumatic

Coding: 212/2.11.12.F

### Operational characteristics

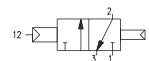
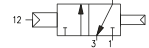
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

### TYPE

32 = 3 ways  
52 = 5 ways

### FUNCTION

1.C = Normally closed  
1.A = Normally open  
1 = Self-feeding

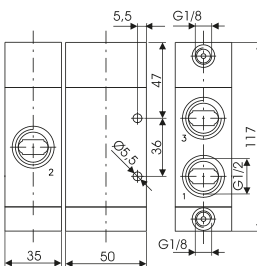


3 ways



Weight 466 g  
Minimum piloting pressure 2,5 bar

212/2.32.11.12/F

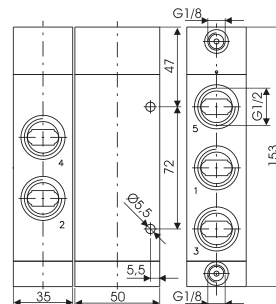


5 ways



Weight 588 g  
Minimum piloting pressure 2,5 bar

212/2.52.11.12/F

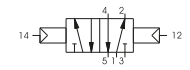
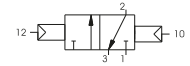


## Amplified pneumatic - Spring

Coding: 212/2.11.11

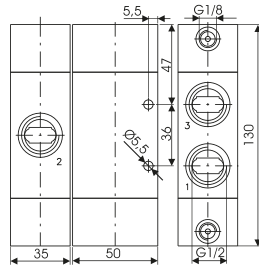
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (l/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

TYPE	
32 = 3 ways	
52 = 5 ways	



Weight 518 g  
Minimum piloting pressure 2,5 bar

212/2.32.11.11

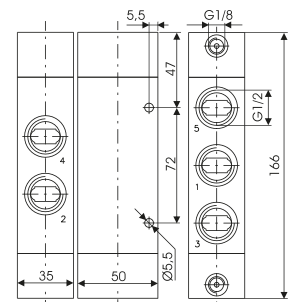


5 ways



Weight 640 g  
Minimum piloting pressure 2,5 bar

212/2.52.11.11



## Pneumatic - Pneumatic 5 ways 3 connections

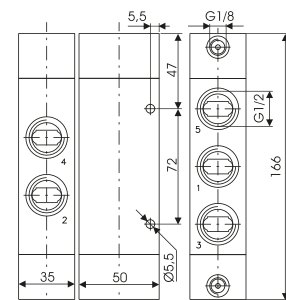
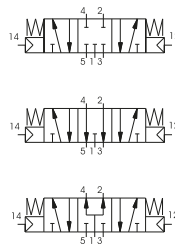
Coding: 212/2.53.11.11

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 $\Delta p=1$ (l/min)	3300
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

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



Weight 684 g  
Minimum piloting pressure 3 bar

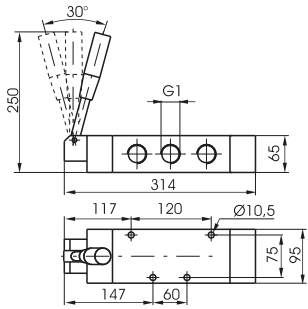
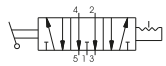
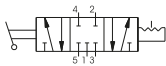


**Lever lateral 3 positions detent**

Coding: 211.53.F.9

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 (l/min)	6500
Orifice size (mm)	20
Working ports size	G1"

F	FUNCTION
	31 = Closed centres
	32 = Open centres



Weight 5000 g

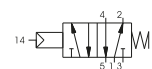
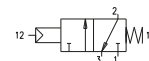
## Pneumatic - Spring

Coding: 211.11.1

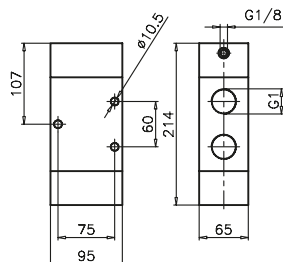
### Operational characteristics

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 $\Delta p=1$ (NI/min)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways



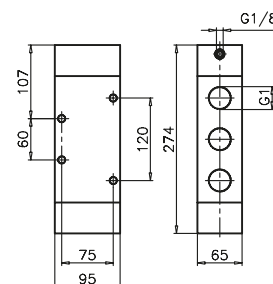
3 ways



Weight 3330 g  
Minimum piloting pressure 2,5 bar

211.32.11.1

5 ways



Weight 4200 g  
Minimum piloting pressure 2,5 bar

211.52.11.1

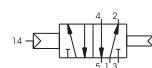
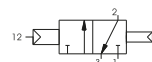
## Pneumatic - Differential external

Coding: 211.11.12

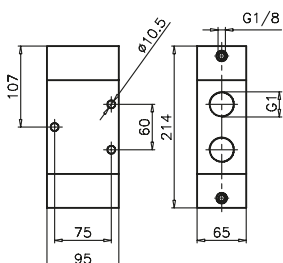
### Operational characteristics

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 $\Delta p=1$ (NI/min)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways



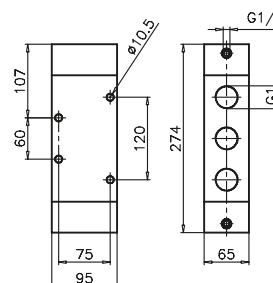
3 ways



Weight 3330 g  
Minimum piloting pressure 2,5 bar

211.32.11.12

5 ways



Weight 4200 g  
Minimum piloting pressure 2,5 bar

211.52.11.12

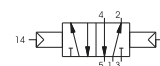
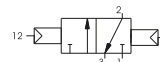
## Pneumatic - Pneumatic

Coding: 211.11.11

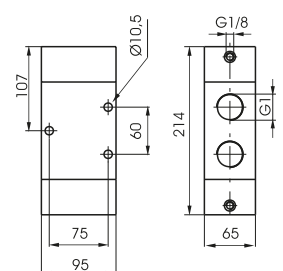
### Operational characteristics

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)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

TYPE
32 = 3 ways
52 = 5 ways



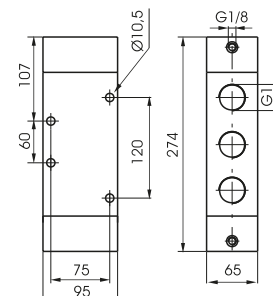
3 ways



Weight 3330 g  
Minimum piloting pressure 2 bar

211.32.11.11

5 ways



Weight 4200 g  
Minimum piloting pressure 2 bar

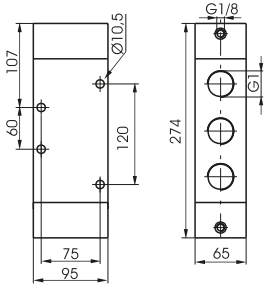
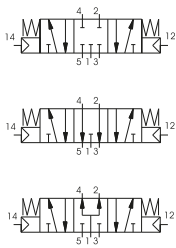
211.52.11.11

Pneumatic - Pneumatic 5 ways 3 connections

Coding: 211.53.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 Δp=1 (l/min)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

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



Weight 4200 g  
Minimum piloting pressure 3 bar



## Series T200

### General

The **T200** series, consist of a broad range of valves with various type of actuation. The connections for this series are from G 1/8" to G 1/4". The main components constituting the valves of the Tecno228 series are manufactured with high performance technopolymer. The use of technopolymer has resulted in a light weight product which can be offered to the market at very interesting prices. The **T228** series, is manufactured with 1/8" connections, 3 and 5 ways function, mechanical or pneumatically operated, monostable spring or pneumatic return, bistable and in 5 ways 3 positions version with closed, open and pressured centres. This series is completely interchangeable with the standard 228 series (with aluminium body). The **T224** valves and solenoid valves series, are manufactured with 1/4" connections. Depending on version and actuation (manual, pneumatic, or electrical), and self aligning (pneu - elect, spring) 3/2, 5/2 and 5/3 ways function, (monostable), (bistable). The gang mounted solenoid valves are available with the traditional manifold obtained from bored square bar of series 600 and with the extruded aluminium base allowing a unic inlet port conveying the exhausts. The base is also prearranged to be fixed on DIN 46277/3 guide.

### Maximum fitting torque

Thread	Maximum torque (Nm)
G 1/8"	4
G1/4"	9

### Construction characteristics

	G 1/8" (T228) and G 1/4" (T224)
Body	Technopolymer
Operators	Technopolymer
Seals	NBR
Spacer	Technopolymer
Spools	Technopolymer Stainless steel only for the versions Push button-Spring and Lever lateral
Springs	Spring steel
Pistons	Technopolymer

### Use and maintenance

This 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).

## Pneumatic - Spring

Coding: T228.11.1

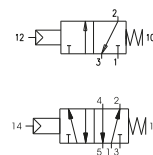
### Operational characteristics

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)	620
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

### TYPE

32 = 3 ways
52 = 5 ways

Minimum piloting pressure 2,5 bar

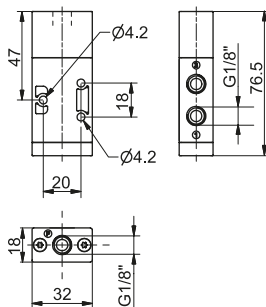


3 ways



Weight 65 g

T228.32.11.1

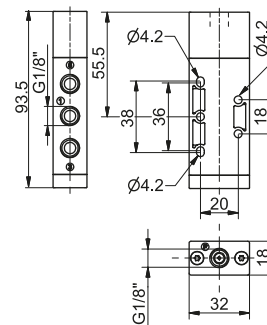


5 ways



Weight 78 g

T228.52.11.1



## Pneumatic - Differential external

Coding: T228.11.12

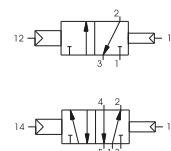
### Operational characteristics

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 $\Delta p=1$ (NI/min)	620
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

### TYPE

32 = 3 ways
52 = 5 ways

Minimum piloting pressure 2,5 bar

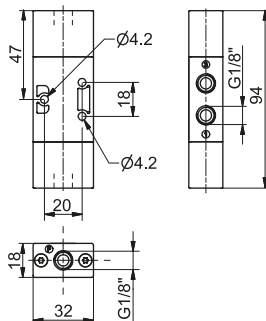


3 ways



Weight 74 g

T228.32.11.12

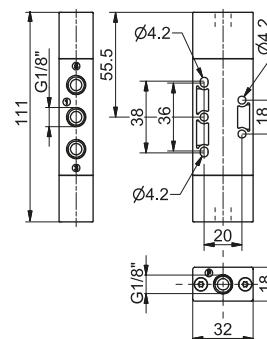


5 ways



Weight 86 g

T228.52.11.12



## Pneumatic - Differential self aligned

Coding: T228.11.12/1

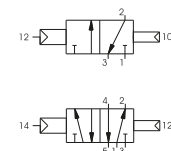
### Operational characteristics

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)	620
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

### TYPE

32 = 3 ways
52 = 5 ways

Minimum piloting pressure 2,5 bar

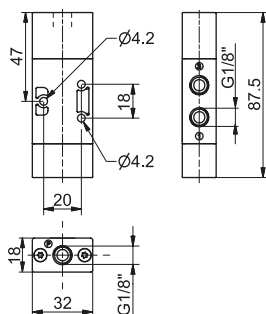


3 ways



Weight 70 g

T228.32.11.12/1

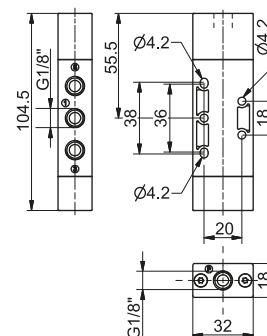


5 ways



Weight 82 g

T228.52.11.12/1



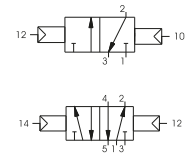
**Pneumatic - Pneumatic**

Coding: T228.11.11

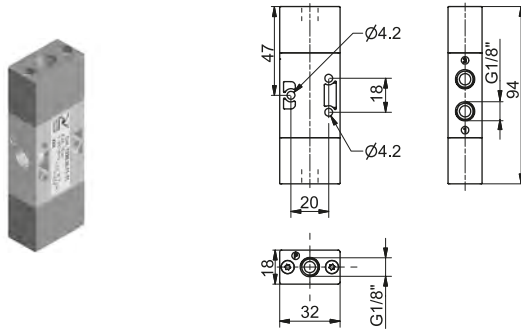
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	620
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

TYPE
<b>32</b> = 3 ways
<b>52</b> = 5 ways

Minimum piloting pressure 2 bar



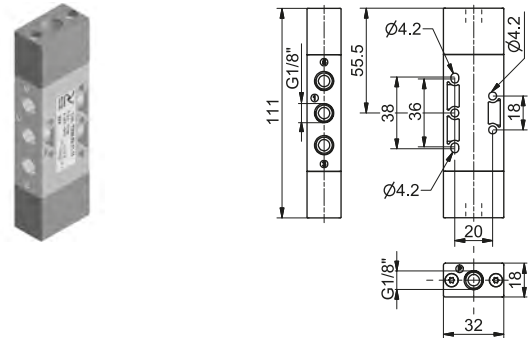
3 ways



Weight 77 g

T228.32.11.11

5 ways



Weight 90 g

T228.52.11.11

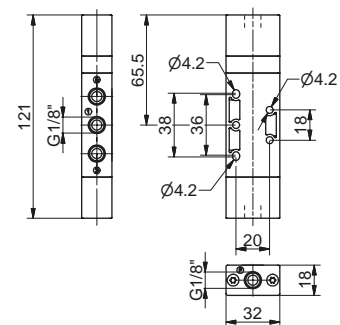
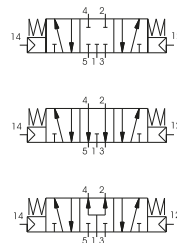
**Pneumatic - Pneumatic 3 positions**

Coding: T228.53.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	410
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

FUNCTION
<b>31</b> = Closed centres
<b>32</b> = Open centres
<b>33</b> = Pressured centres

Minimum piloting pressure 3 bar



Weight 110 g

### Pneumatic - Spring

Coding: T224.1.11.1

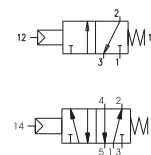
#### Operational characteristics

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)	1050
Orifice size (mm)	8.5
Working ports size	G1/4"
Pilot ports size	G1/8"

#### TYPE

32 = 3 ways
52 = 5 ways

Minimum piloting pressure 2,5 bar

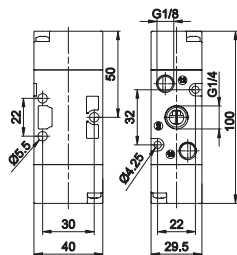


3 ways



Weight 110 g

T224.32.11.1

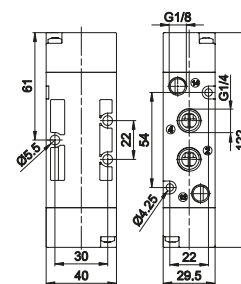


5 ways



Weight 140 g

T224.52.11.1



### Pneumatic - Differential external

Coding: T224.1.11.12

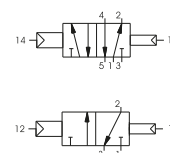
#### Operational characteristics

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 $\Delta p=1$ (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G1/4"
Pilot ports size	G1/8"

#### TYPE

32 = 3 ways
52 = 5 ways

Minimum piloting pressure 2 bar

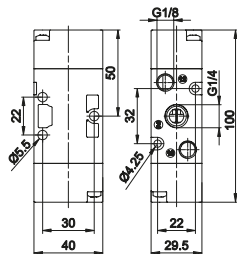


3 ways



Weight 110 g

T224.32.11.12

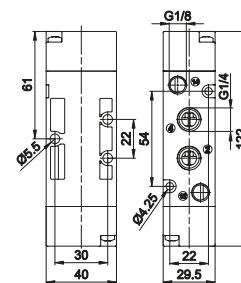


5 ways



Weight 140 g

T224.52.11.12



### Pneumatic - Pneumatic

Coding: T224.1.11.11

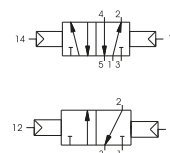
#### Operational characteristics

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)	1050
Orifice size (mm)	8.5
Working ports size	G1/4"
Pilot ports size	G1/8"

#### TYPE

32 = 3 ways
52 = 5 ways

Minimum piloting pressure 2 bar

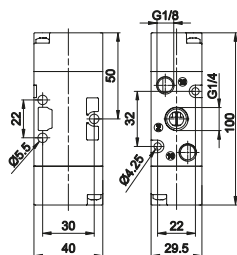


3 ways



Weight 110 g

T224.32.11.11

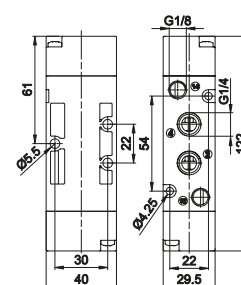


5 ways



Weight 140 g

T224.52.11.11

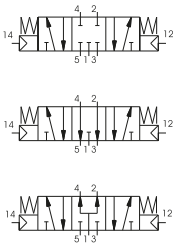
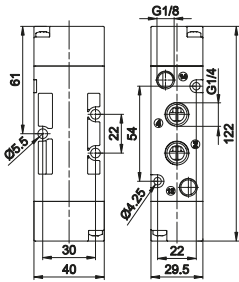


Pneumatic - Pneumatic 5 ways 3 connections

Coding: T224.53.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 ÷ +50
Flow rate at 6 bar with Δp=1 (l/min)	900
Orifice size (mm)	8.5
Working ports size	G1/4"
Pilot ports size	G1/8"

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



Weight 160 g  
Minimum piloting pressure 3 bar



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 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.


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

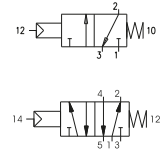
Example:  
**805.52.0.1.01** Solenoid valves with miniature solenoid 12 V D.C.  
List of codes for tensions:  
01 = miniature solenoid 12 VDC  
02 = miniature solenoid 24 VDC  
05 = miniature solenoid 24 VAC  
06 = miniature solenoid 110 VAC  
07 = miniature solenoid 220 VAC  
The electropilot utilized 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 $\Delta p=1$ (l/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

TYPE
32 = 3 ways
52 = 5 ways

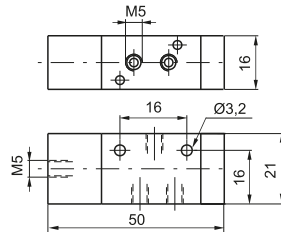


3 ways



Weight 45 g  
Minimum piloting pressure 2 bar

805.32.11.1

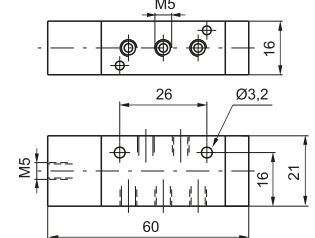


5 ways



Weight 50 g  
Minimum piloting pressure 2 bar

805.52.11.1

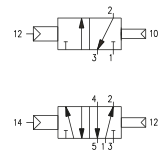


## Pneumatic - Differential

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 $\Delta p=1$ (l/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

TYPE
32 = 3 ways
52 = 5 ways

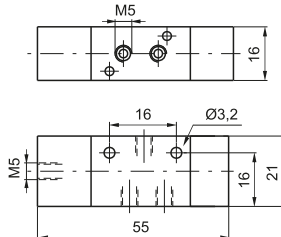


3 ways



Weight 50 g  
Minimum piloting pressure 2 bar

805.32.11.12

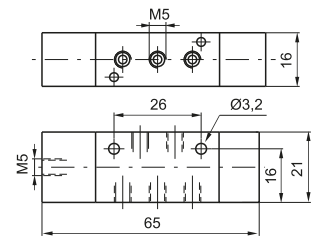


5 ways



Weight 55 g  
Minimum piloting pressure 2 bar

805.52.11.12

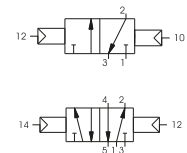


## Pneumatic - Pneumatic

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 $\Delta p=1$ (l/min)	160
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

TYPE
32 = 3 ways
52 = 5 ways

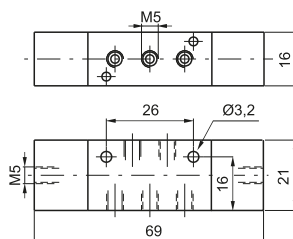


3 ways



Weight 55 g  
Minimum piloting pressure 1,5 bar

805.32.11.11

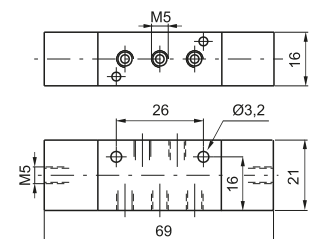


5 ways 2 connections



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 $\Delta p=1$ (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5

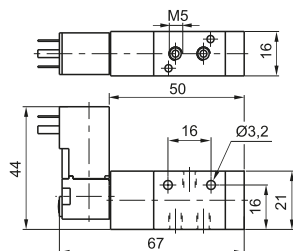
### TYPE

- ① 32 = 3 ways  
52 = 5 ways

### VOLTAGE

- ① = 12V D.C.  
② = 24V D.C.  
⑤ = 24V A.C.  
⑥ = 110V A.C.  
⑦ = 230V A.C.

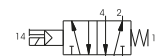
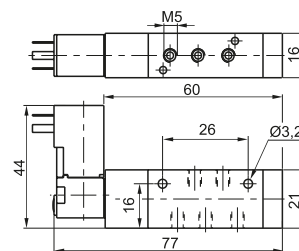
3 ways



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 $\Delta p=1$ (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5

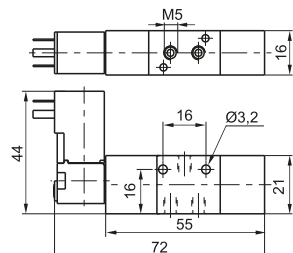
### TYPE

- ① 32 = 3 ways  
52 = 5 ways

### VOLTAGE

- ① = 12V D.C.  
② = 24V D.C.  
⑤ = 24V A.C.  
⑥ = 110V A.C.  
⑦ = 230V A.C.

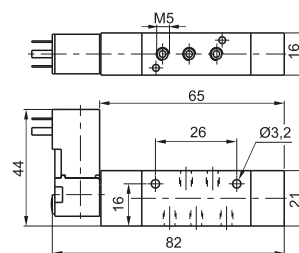
3 ways



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 $\Delta p=1$ (NI/min)	160
Orifice size (mm)	2.5
Working ports size	M5

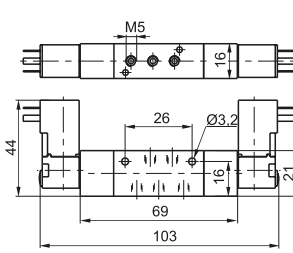
### TYPE

- ① 32 = 3 ways  
52 = 5 ways

### VOLTAGE

- ① = 12V D.C.  
② = 24V D.C.  
⑤ = 24V A.C.  
⑥ = 110V A.C.  
⑦ = 230V A.C.

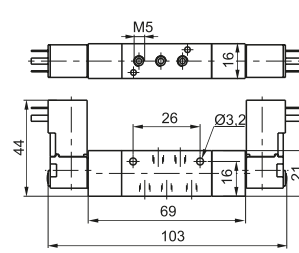
3 ways



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.●



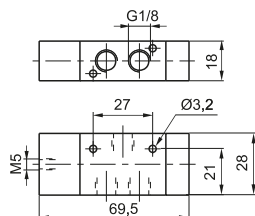
## Pneumatic - Spring

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 $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

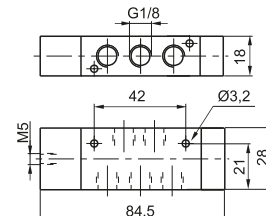
Pneumatic - Spring



Weight 95 g  
Minimum piloting pressure 2 bar

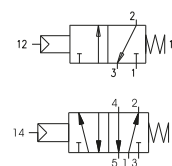
808.32.11.1

Pneumatic - Spring



Weight 100 g  
Minimum piloting pressure 2 bar

808.52.11.1



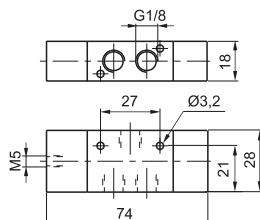
## Pneumatic - Differential

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 $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

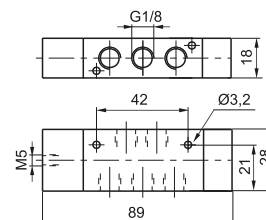
Pneumatic - Differential external



Weight 105 g  
Minimum piloting pressure 2 bar

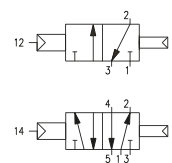
808.32.11.12

Pneumatic - Differential external



Weight 110 g  
Minimum piloting pressure 2 bar

808.52.11.12



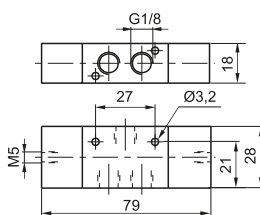
## Pneumatic - Pneumatic

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 $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G1/8"
Pilot ports size	M5

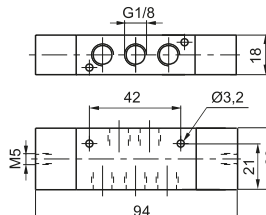
Pneumatic-pneumatic



Weight 115 g  
Minimum piloting pressure 1,5 bar

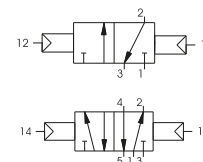
808.32.11.11

Pneumatic-pneumatic



Weight 120 g  
Minimum piloting pressure 1,5 bar

808.52.11.11



Pneumatic - Pneumatic

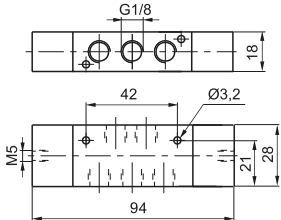
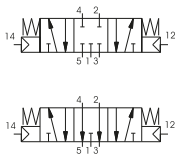
Coding: 808.53.11.11

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 (NI/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

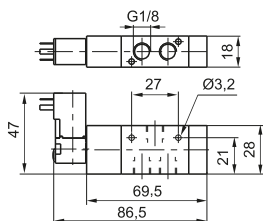
Coding: 808.●.0.1.●

### 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 $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

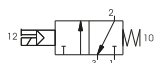
TYPE	VOLTAGE
① 32 = 3 ways	01 = 12V D.C.
52 = 5 ways	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

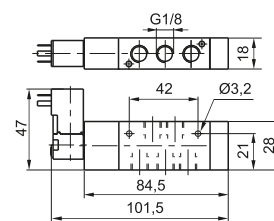


Weight 130 g  
Minimum working pressure 2 bar

808.32.0.1.●

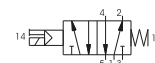


5 ways



Weight 135 g  
Minimum working pressure 2 bar

808.52.0.1.●



## Solenoid - Differential

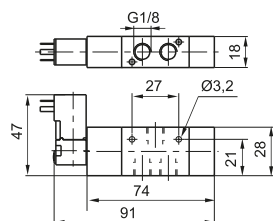
Coding: 808.●.0.12.●

### 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 $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

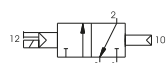
TYPE	VOLTAGE
① 32 = 3 ways	01 = 12V D.C.
52 = 5 ways	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

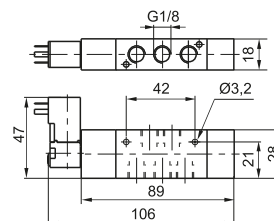


Weight 140 g  
Minimum working pressure 2 bar

808.32.0.12.●

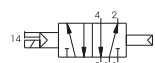


5 ways



Weight 145 g  
Minimum working pressure 2 bar

808.52.0.12.●



## Solenoid - Solenoid

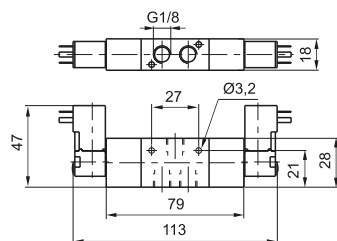
Coding: 808.●.0.0.●

### 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 $\Delta p=1$ (NI/min)	520
Orifice size (mm)	4
Working ports size	G 1/8"

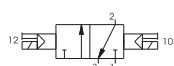
TYPE	VOLTAGE
① 32 = 3 ways	01 = 12V D.C.
52 = 5 ways	02 = 24V D.C.
	05 = 24V A.C.
	06 = 110V A.C.
	07 = 230 V A.C.

3 ways

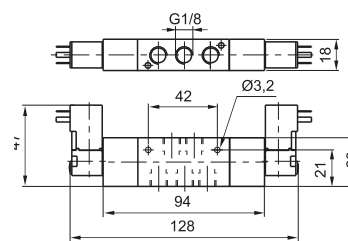


Weight 185 g  
Minimum working pressure 1,5 bar

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

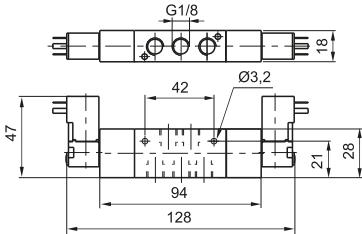
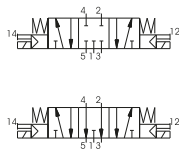
Coding: 808.53.1.0.0.1

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

TYPE	VOLTAGE
1 = Closed centres	01 = 12V D.C.
2 = Open centres	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

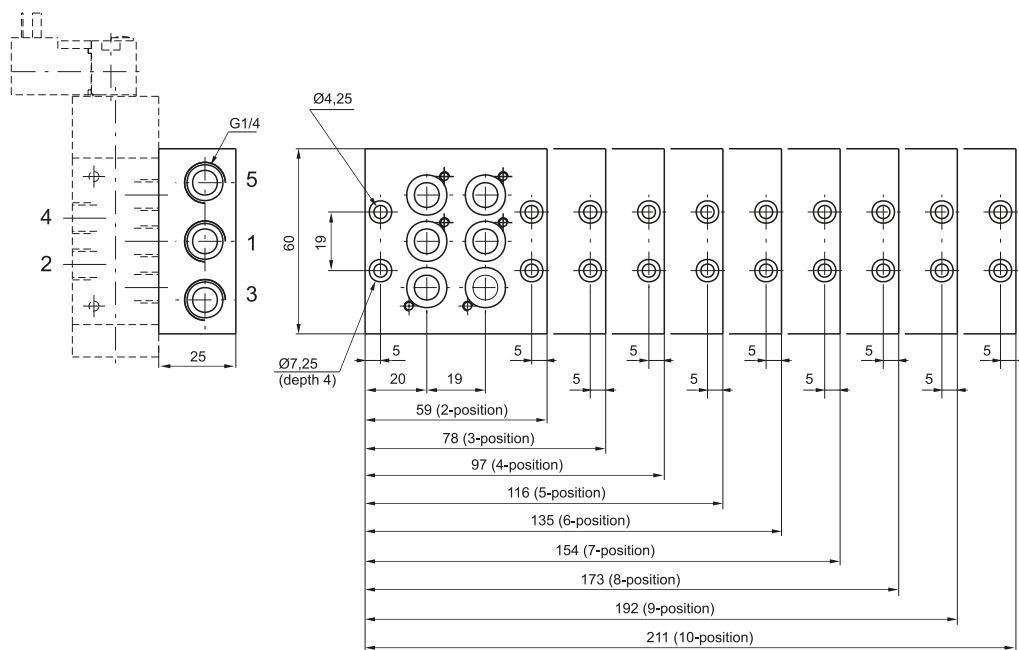


Collectors

Coding: 808.N



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)

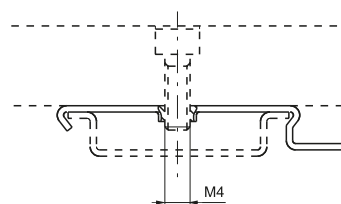


Clip

Coding: 800.00



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

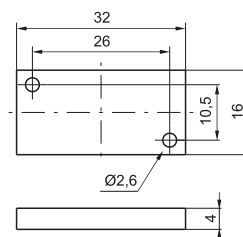


Closing plate

Coding: 808.00



Weight 65 g



## Series 888

### General

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

### 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.

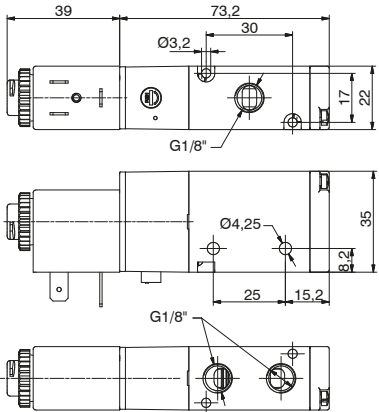
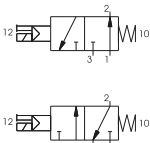
Solenoid - Spring - 3/2 (Self-feeding)

Coding: 8880.32.Ⓕ.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 Δp=1 (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

FUNCTION	
Ⓕ	A = Normally Open
	C = Normally Closed

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



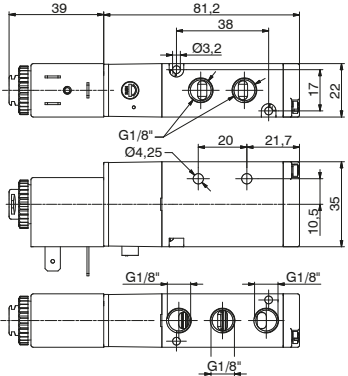
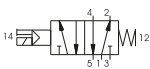
Weight 210 g  
Minimum working pressure 2 bar

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

Coding: 8880.52.00.39.Ⓥ

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 Δp=1 (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

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



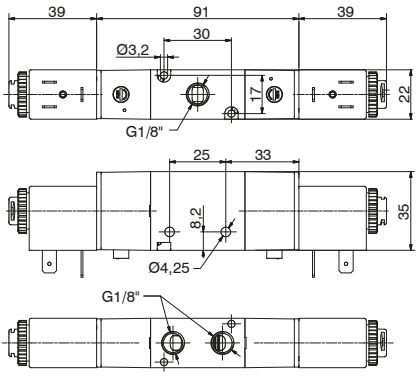
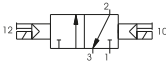
Weight 220 g  
Minimum working pressure 2 bar

Solenoid - Solenoid - 3/2

Coding: 8880.32.00.35.Ⓥ

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 Δp=1 (NI/min)	790
Orifice size (mm)	5.8
Working ports size	G 1/8"

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



### Solenoid - Solenoid - 5 ways 2 connections

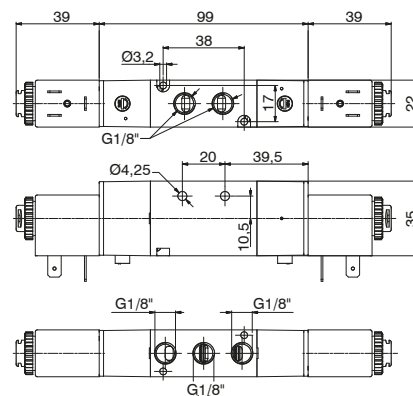
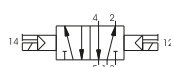
Coding: 8880.52.00.35.▼

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 $\Delta p=1$ (l/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

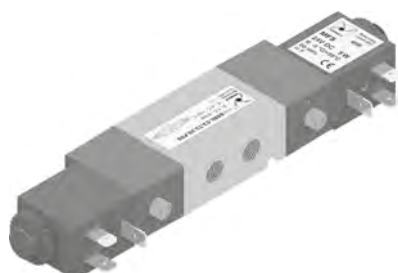


### Solenoid - Solenoid - 5 ways 3 connections

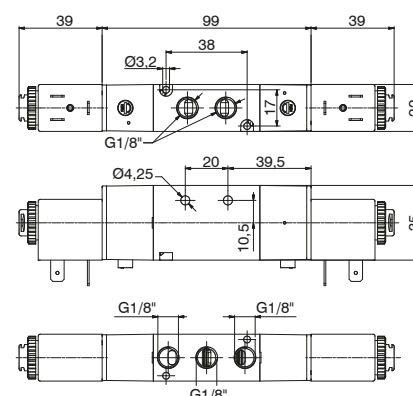
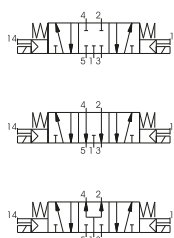
Coding: 8880.53.F.35.▼

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

FUNCTION		VOLTAGE	
F	31 = Closed centres	F04	= 12 V DC
	32 = Open centres	F05	= 24 V DC
	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



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

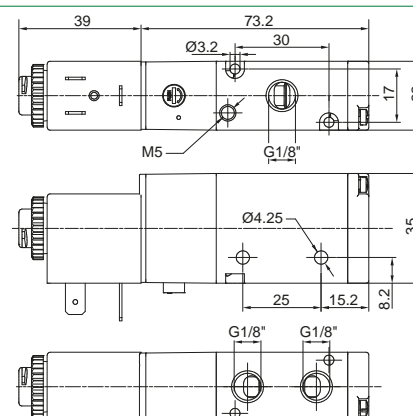
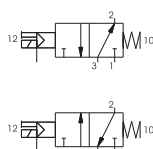
Coding: 8880E.32.F.39.▼

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

FUNCTION		VOLTAGE	
F	A = 3/2 Normally Open	F04	= 12 V DC
	C = 3/2 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 (External-feeding)

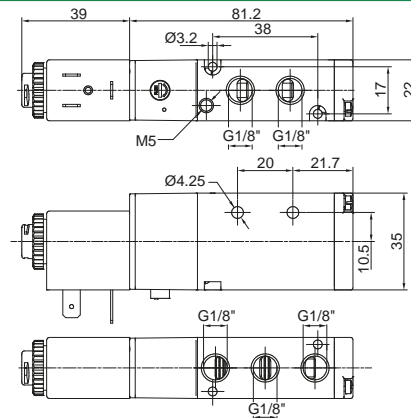
Coding: 8880E.52.00.39.

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 VDC
F05	= 24 VDC
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)

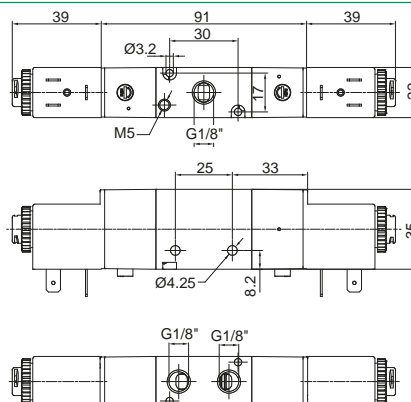
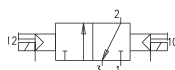
Coding: 8880E.32.00.35.

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 VDC
F05	= 24 VDC
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)

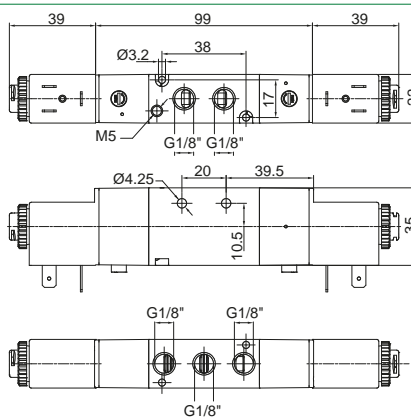
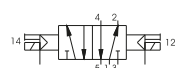
Coding: 8880E.52.00.35.

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 VDC
F05	= 24 VDC
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

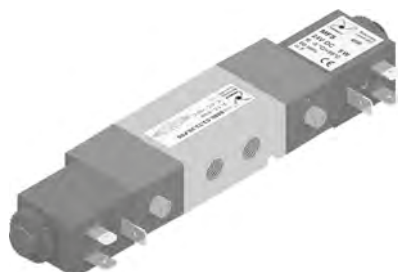


### Solenoid - Solenoid - 5/3 connections (External-feeding)

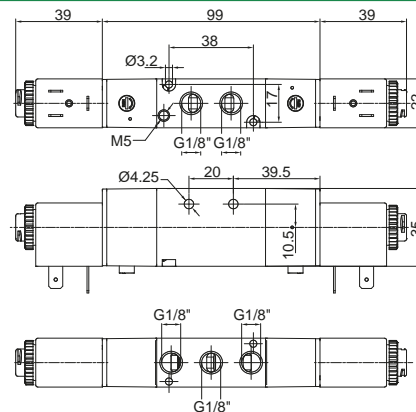
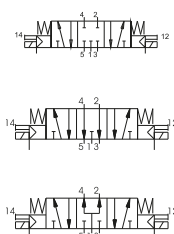
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	8
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (l/min)	440
Orifice size (mm)	5.8
Working ports size	G 1/8"

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

FUNCTION	VOLTAGE
F31 = Closed centres	F04 = 12 VDC
F32 = Open centres	F05 = 24 VDC
F33 = 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



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

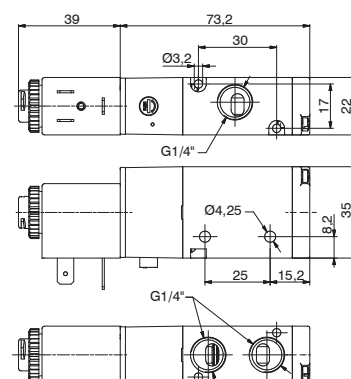
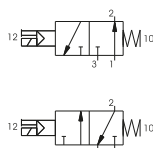
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	8
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (l/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.32.F.39.V

FUNCTION	VOLTAGE
F3A = 3/2 Normally Open	F04 = 12 VDC
F3C = 3/2 Normally Closed	F05 = 24 VDC
	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)

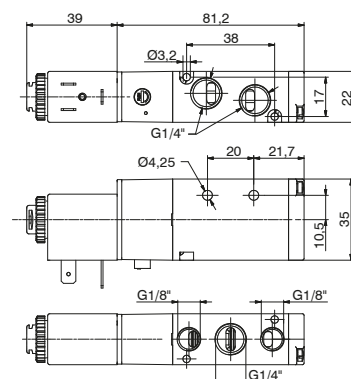
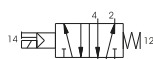
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	8
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (l/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

Coding: 8884.52.00.39.V

VOLTAGE
F04 = 12 VDC
F05 = 24 VDC
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

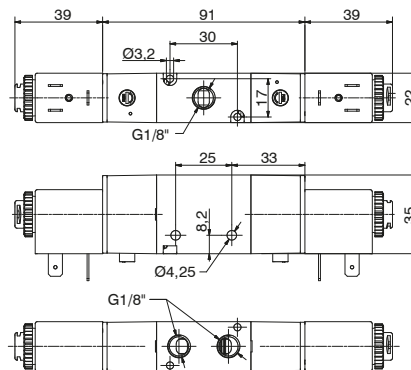
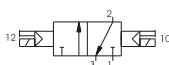
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	8
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	890
Orifice size (mm)	6.5
Working ports size	G 1/4"

**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

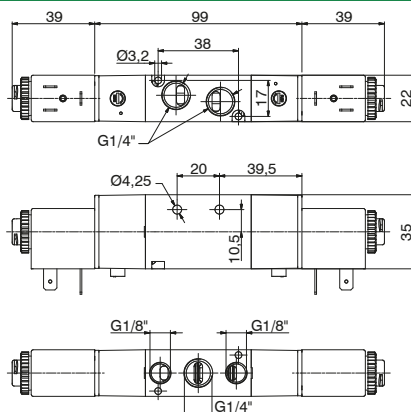
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	8
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	540
Orifice size (mm)	6.5
Working ports size	G 1/4"

**Coding:** 8884.52.00.35. 

VOLTAGE	
<b>F04</b>	= 12 V DC
<b>F05</b>	= 24 V DC
<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 320 g  
Minimum working pressure 2 bar

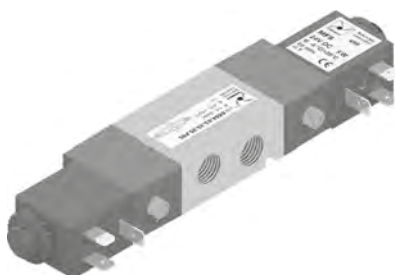


## Solenoid - Solenoid - 5/3

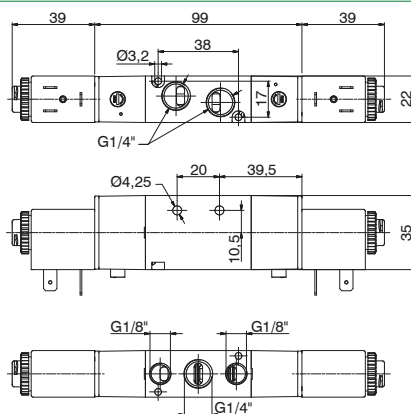
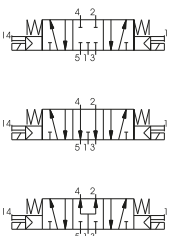
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	8
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	540
Orifice size (mm)	6.5
Working ports size	G 1/4"

**Coding:** 8884.53.●.35.●

<b>F</b>	FUNCTION	<b>V</b>	VOLTAGE
	<b>31</b> = Closed centres		<b>F04</b> = 12 V DC
	<b>32</b> = Open centres		<b>F05</b> = 24 V DC
	<b>33</b> = Pressured centres		<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

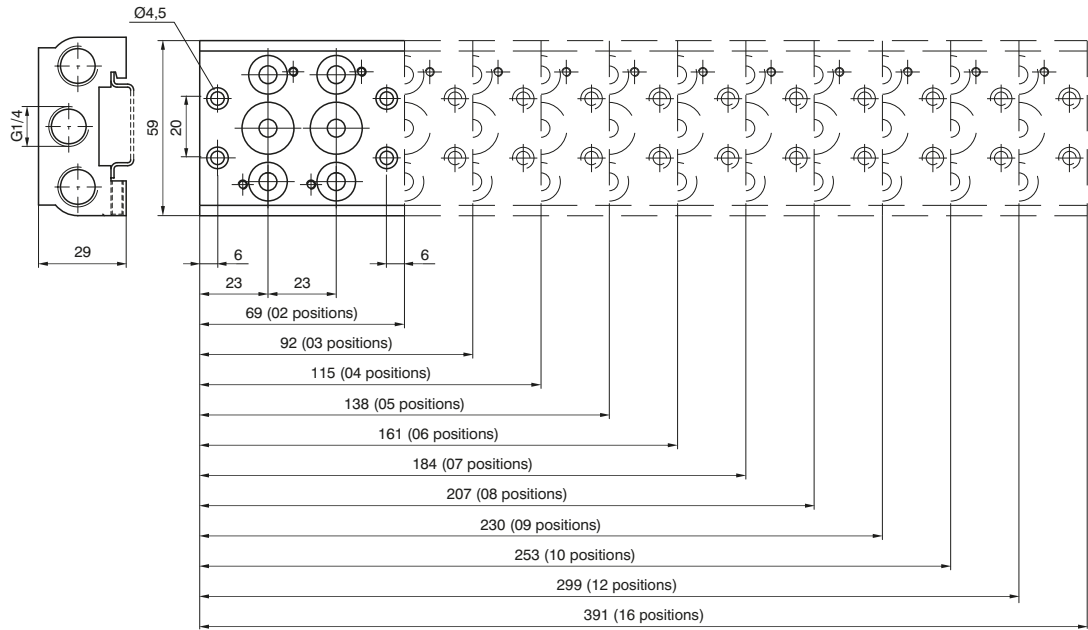


► Manifold (Valves 5/2 - 5/3)



Coding: 888.P

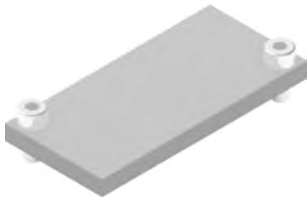
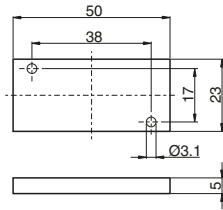
CONNECTION TYPE
02 = nr. 2 positions (270 g)
03 = nr. 3 positions (335 g)
04 = nr. 4 positions (400 g)
05 = nr. 5 positions (465 g)
06 = nr. 6 positions (530 g)
07 = nr. 7 positions (595 g)
08 = nr. 8 positions (660 g)
09 = nr. 9 positions (725 g)
10 = nr. 10 positions (790 g)
12 = nr. 12 positions (920 g)
16 = nr. 16 positions (1180 g)



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

► 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-polar base