Series 1000 - Size 1, 2 and 3

5 ways 2 or 3 positions distributors and electric distributors can be used mounted on individual or ganged bases.
These standards are ISO 5599/1, according to which certain dimensions are mandatory, namely, the mounting surface, the pitch of the fastening screws, the characteristic of the electric pilot, the flow rate, the pneumatic connections, and so on.
The design is based on the balanced spool principle with pneumatic or electropneumatic actuators and resetting by mechanically or pneumatically operated spring.
The 3 position closed centres, are obtained by spring operation.
The feed to the actuators on the distributors can be provided either by pressure intake from inlet 1(autofeed) or through the base from inlets 12 and 14 (external feed); there are two separate types of these distributors: one is the Series 1000 and the other is the Series 1010.
The Series 1000 includes size 1 and 2 and are built of die-cast aluminium. The selection is made by turning a seal fitted between body and operator by 180°, so to utilize external-feed pilot or with internal feed.
Ordering codes are referring to distributors with "M2" mechanics or solenoid valves "S" mounted.
Coil are not included and have to be ordered separately (see Series 300).
"S" homologated c UL us solenoid coil are available (see Series 300).

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.
Make sure that the conditions of use comply with the pressure, temperature etc. limits indicated and that the fastening screws are tightened with the following maximum torques on distributors Series 1010.
Size 1 = 4 Nm
Size 2 = 5 Nm
Size 3 = 8 Nm
Repair kits including the spool complete with seals are available for overhauling the valves.
However, although this is a simple operation it should be carried out by a competent person.

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

Construction characteristics

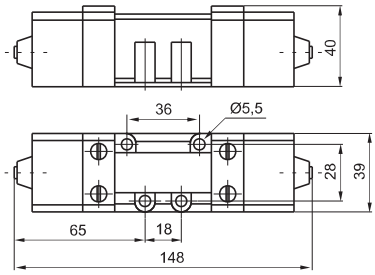
Series 1000	**Size 1**	**Size 2**
Body	Zinc alloy	Aluminium
Operators	Zinc alloy	Aluminium
Spools	Steel	Steel
Seals	NBR	NBR
Spacers	Technopolymer	Aluminium
Springs	Spring steel	Spring steel
Selectors	NBR	NBR

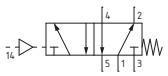
Series 1010	**Size 1**	**Size 2**	**Size 3**
Body	Technopolymer	Technopolymer	Aluminium
Operators	Technopolymer	Technopolymer	Aluminium
Spools	Steel	Steel	Steel
Seals	NBR	NBR	NBR
Spacers	Technopolymer	Technopolymer	Technopolymer
Pistons	Aluminium	Aluminium	Aluminium
Springs	Spring steel	Spring steel	Spring steel

Pneumatic - Spring

Coding: 1001.52.1.9

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 (Nl/min)	840



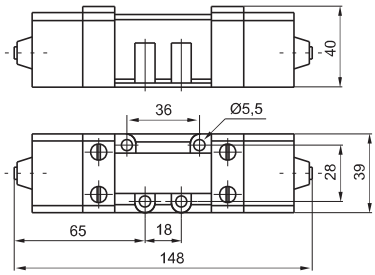


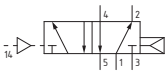
Weight 780 g
Minimum pilot pressure 2,5 bar

Pneumatic - Differential

Coding: 1001.52.1.6

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)	840



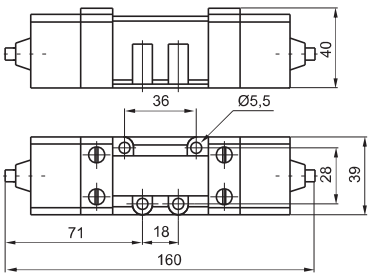


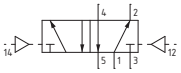
Weight 790 g
Minimum pilot pressure 2 bar

Pneumatic-Pneumatic 5/2

Coding: 1001.52.1.8

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)	840





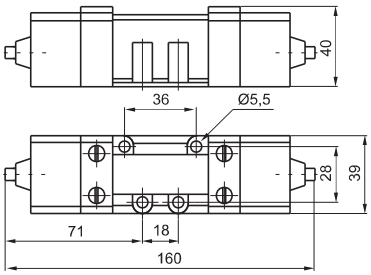
Weight 800 g
Minimum pilot pressure 1,5 bar

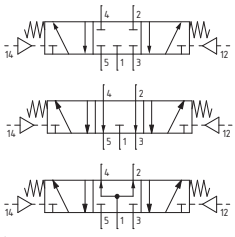
Pneumatic-Pneumatic 5/3

Coding: 1001.53.Ⓕ.1.8

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)	720

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



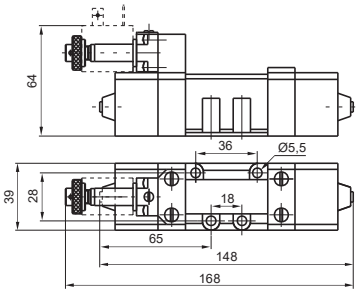


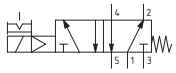
Weight 800 g
Minimum pilot pressure 3 bar

Solenoid-Spring

Coding: 1051.52.3.9.M2

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)	840



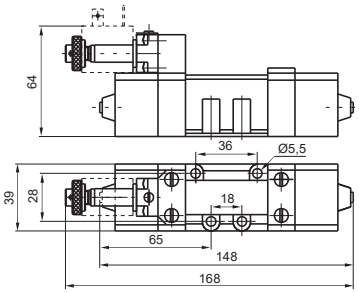


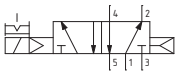
Weight 890 g
Minimum pilot pressure 2,5 bar

Solenoid-Differential

Coding: 1051.52.3.6.M2

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)	840



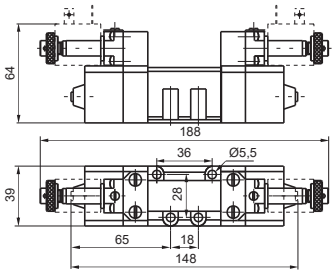


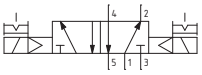
Weight 900 g
Minimum pilot pressure 2 bar

Solenoid-Solenoid 5/2

Coding: 1051.52.3.5.M2

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)	840





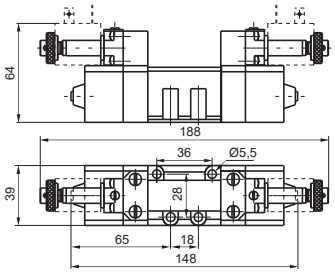
Weight 1040 g
Minimum pilot pressure 1,5 bar

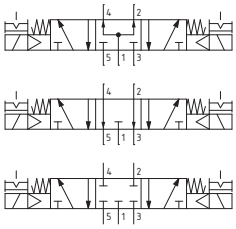
Solenoid-Solenoid 5/3

Coding: 1051.53.Ⓕ.3.5.M2

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)	720

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



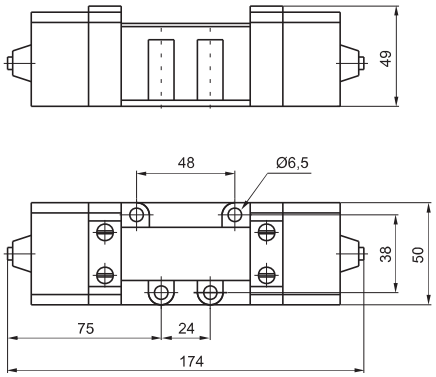


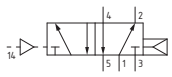
Weight 1040 g
Minimum pilot pressure 3 bar

Pneumatic - Differential

Coding: 1002.52.1.6

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)	1700



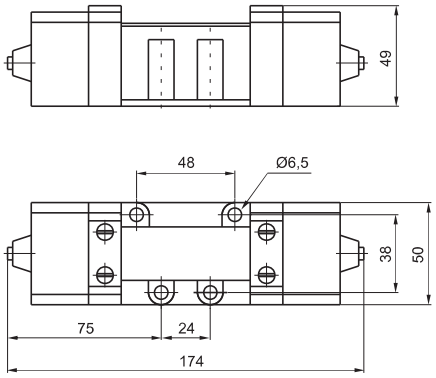


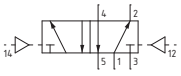
Weight 730 g
Minimum pilot pressure 2 bar

Pneumatic-Pneumatic 5/2

Coding: 1002.52.1.8

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)	1700





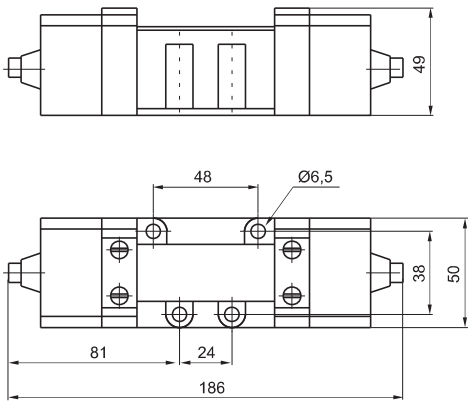
Weight 800 g
Minimum pilot pressure 1,5 bar

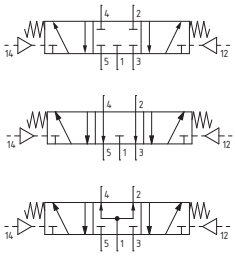
Pneumatic-Pneumatic 5/3

Coding: 1002.53.Ⓕ.1.8

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)	1700

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



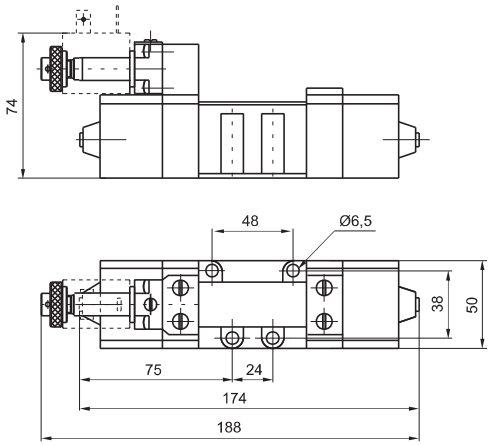


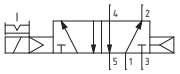
Weight 740 g
Minimum pilot pressure 3 bar

Solenoid-Differential

Coding: 1052.52.3.6.M2

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)	1700



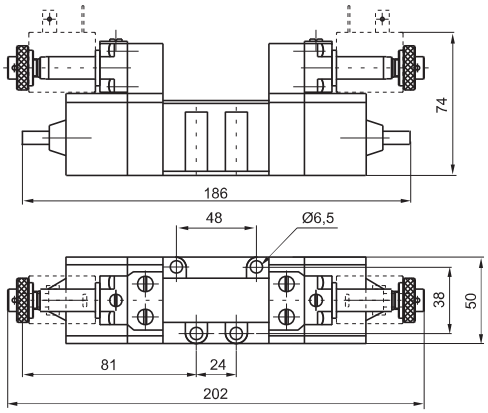


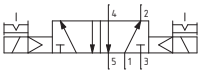
Weight 850 g
Minimum pilot pressure 2 bar

Solenoid-Solenoid 5/2

Coding: 1052.52.3.5.M2

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)	1700





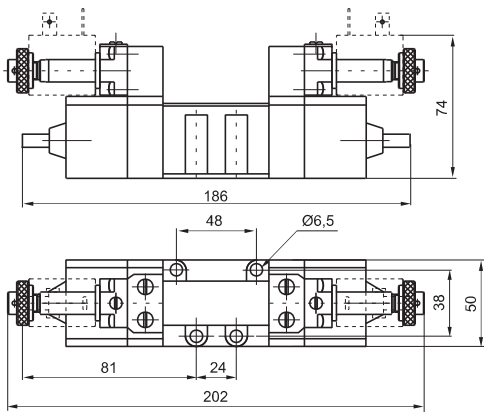
Weight 980 g
Minimum pilot pressure 1,5 bar

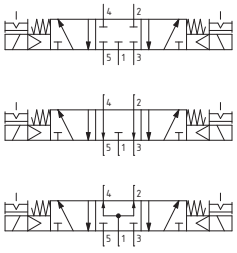
Solenoid-Solenoid 5/3

Coding: 1052.53.Ⓕ.3.5.M2

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)	1700

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

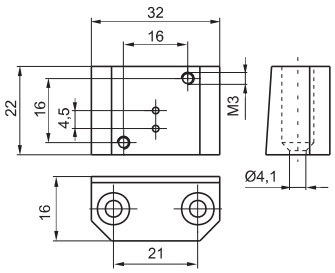




Weight 980 g
Minimum pilot pressure 3 bar

Base for 32 mm Solenoid valve

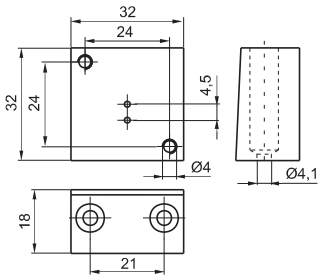
Coding: 1001.05



Weight 60 g

Base CNOMO for 32 mm Solenoid valve

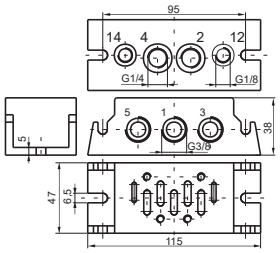
Coding: 1001.04



Weight 90 g

Base with bottom connections size 1

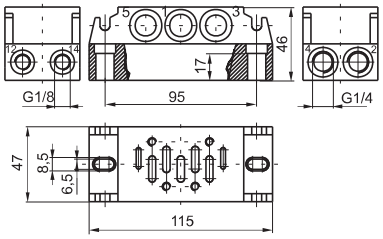
Coding: 1001.00



Weight 320 g
1=INLET PORT, 2-4=OUTLET PORTS, 3-5=EXHAUST PORTS, 12-14=PILOT PORTS

Base with side connections size 1

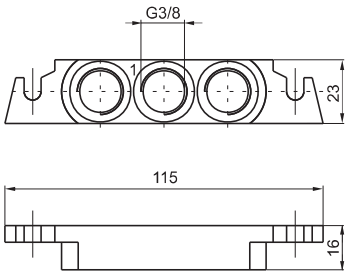
Coding: 1001.01



Weight 445 g
1=INLET PORT, 2-4=OUTLET PORTS, 3-5=EXHAUST PORTS, 12-14=PILOT PORTS

Inlet blocks

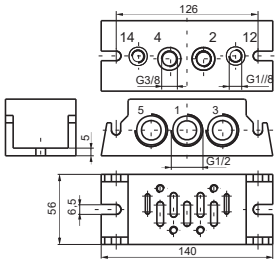
Coding: 1001.02



Weight 55 g

Base with bottom connections size 2

Coding: 1002.00

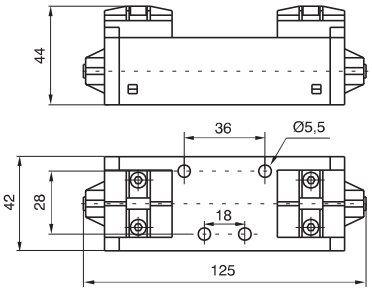


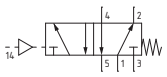
Weight 520 g
1=INLET PORT, 2-4=OUTLET PORTS, 3-5=EXHAUST PORTS, 12-14=PILOT PORTS

Pneumatic - Spring

Coding: 1011.52.1.9

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)	900



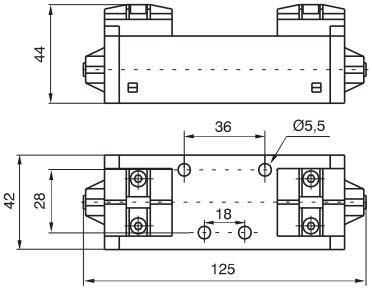


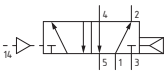
Weight 230 g
Minimum pilot pressure 2,5 bar

Pneumatic - Differential

Coding: 1011.52.1.6

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)	900



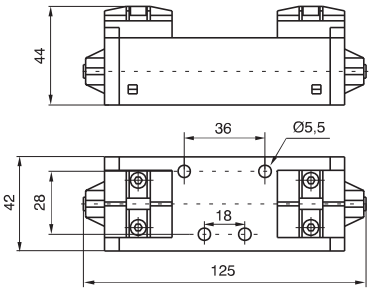


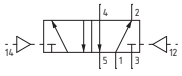
Weight 240 g
Minimum pilot pressure 2 bar

Pneumatic-Pneumatic 5/2

Coding: 1011.52.1.8

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)	900





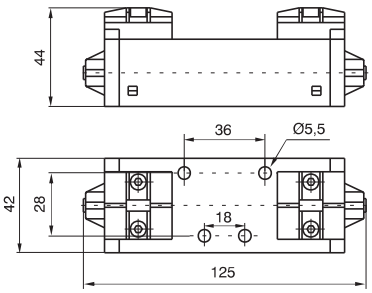
Weight 240 g
Minimum pilot pressure 1,5 bar

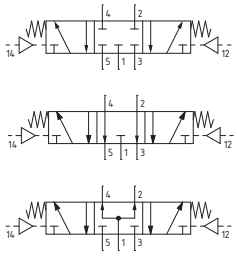
Pneumatic-Pneumatic 5/3

Coding: 1011.53.**F**.1.8

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)	900

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





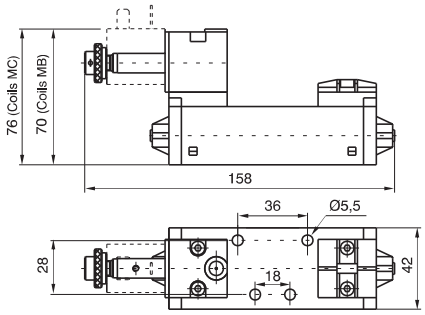
Weight 240 g
Minimum pilot pressure 3 bar

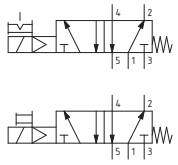
Solenoid-Spring

Coding: 1011.52.3.9.Ⓜ

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)	900

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





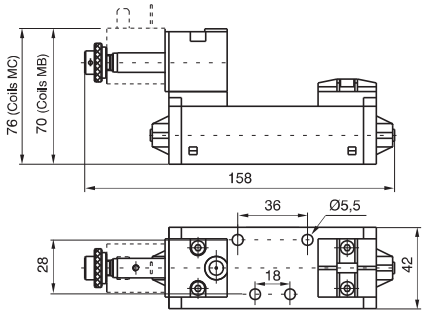
Weight 290 g
Minimum pilot pressure 2,5 bar

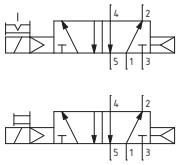
Solenoid-Differential

Coding: 1011.52.3.6.Ⓜ

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)	900

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





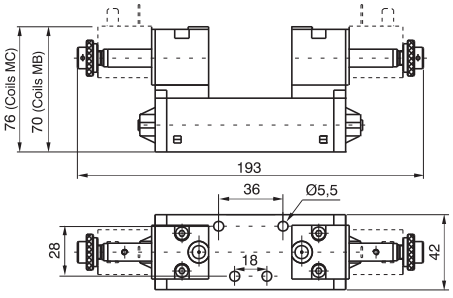
Weight 290 g
Minimum pilot pressure 2 bar

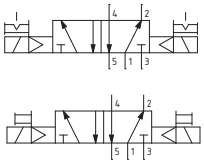
Solenoid-Solenoid 5/2

Coding: 1011.52.3.5.Ⓜ

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)	900

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





Weight 350 g
Minimum pilot pressure 1,5 bar

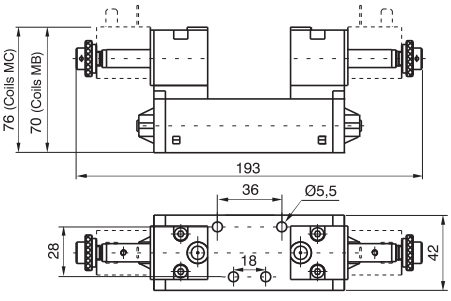
Solenoid-Solenoid 5/3

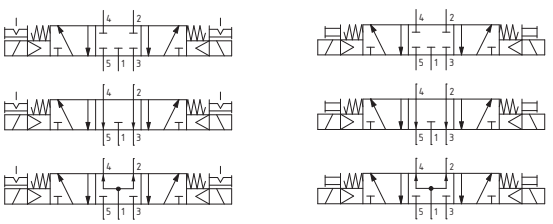
Coding: 1011.53.Ⓕ.3.5.Ⓜ

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)	900

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO

Weight 350 g
Minimum pilot pressure 3 bar

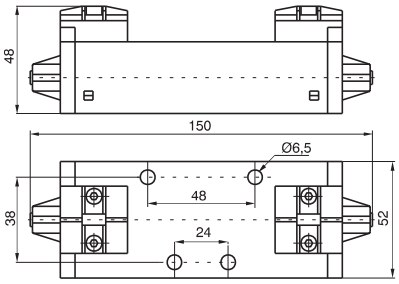


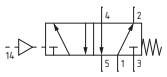


Pneumatic - Spring

Coding: 1012.52.1.9

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)	1600



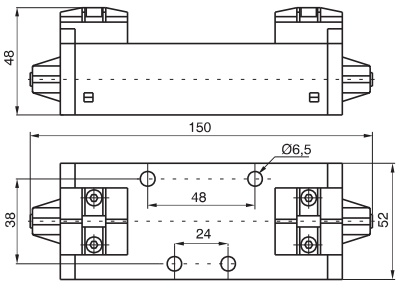


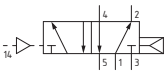
Weight 300 g
Minimum pilot pressure 2,5 bar

Pneumatic - Differential

Coding: 1012.52.1.6

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)	1600



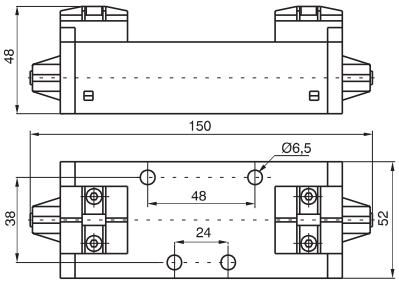


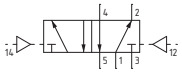
Weight 310 g
Minimum pilot pressure 2 bar

Pneumatic-Pneumatic 5/2

Coding: 1012.52.1.8

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)	1600





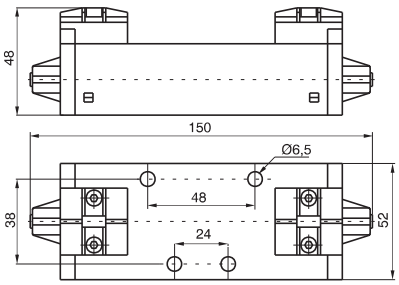
Weight 310 g
Minimum pilot pressure 1,5 bar

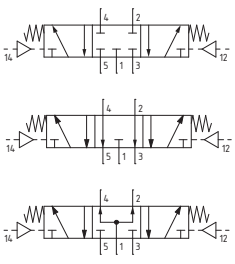
Pneumatic-Pneumatic 5/3

Coding: 1012.53.Ⓕ.1.8

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)	1600

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





Weight 310 g
Minimum pilot pressure 3 bar

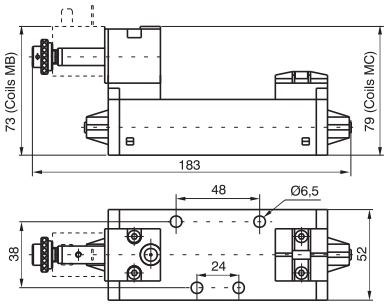
1012.53.Ⓕ.1.8

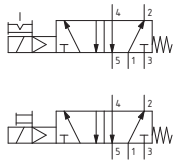
Solenoid-Spring

Coding: 1012.52.3.9.Ⓜ

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)	1600

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





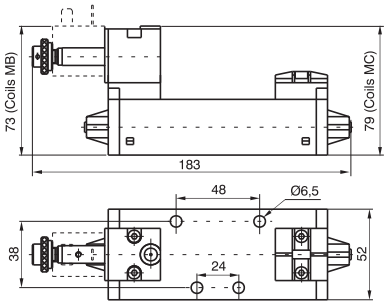
Weight 360 g
Minimum pilot pressure 2,5 bar

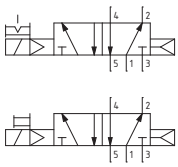
Solenoid-Differential

Coding: 1012.52.3.6.Ⓜ

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)	1600

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





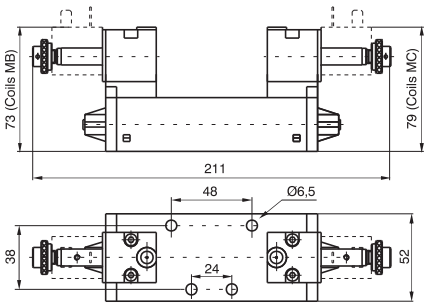
Weight 360 g
Minimum pilot pressure 2 bar

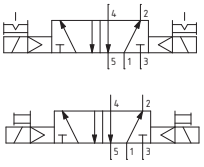
Solenoid-Solenoid 5/2

Coding: 1012.52.3.5.Ⓜ

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)	1600

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





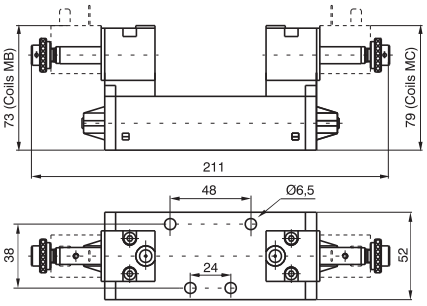
Weight 420 g
Minimum pilot pressure 1,5 bar

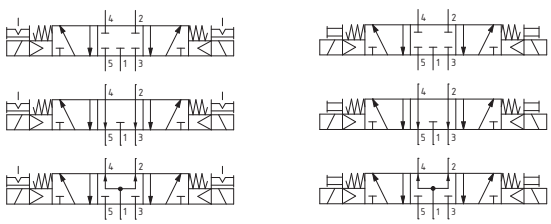
Solenoid-Solenoid 5/3

Coding: 1012.53.Ⓕ.3.5.Ⓜ

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)	1600

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO

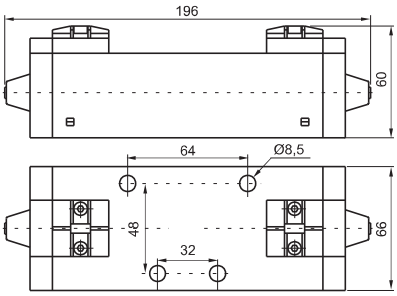


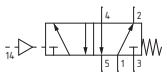


Pneumatic - Spring

Coding: 1013.52.1.9

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)	3600



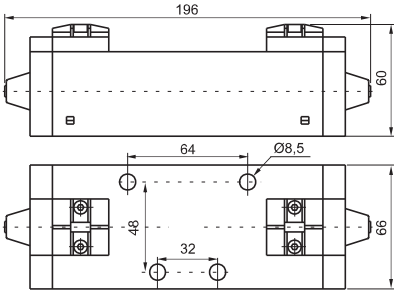


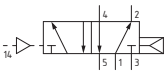
Weight 1000 g
Minimum pilot pressure 2,5 bar

Pneumatic - Differential

Coding: 1013.52.1.6

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)	3600



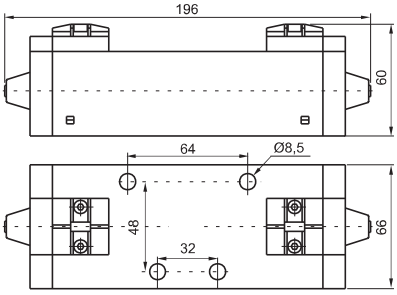


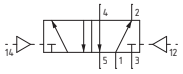
Weight 1020 g
Minimum pilot pressure 2 bar

Pneumatic-Pneumatic 5/2

Coding: 1013.52.1.8

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)	3600





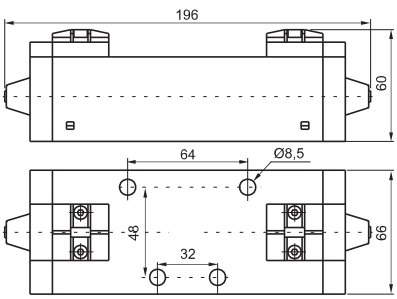
Weight 1050 g
Minimum pilot pressure 1,5 bar

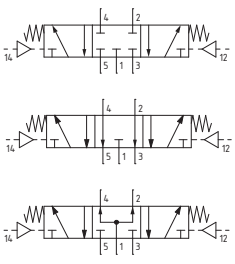
Pneumatic-Pneumatic 5/3

Coding: 1013.53.Ⓕ.1.8

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)	3000

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





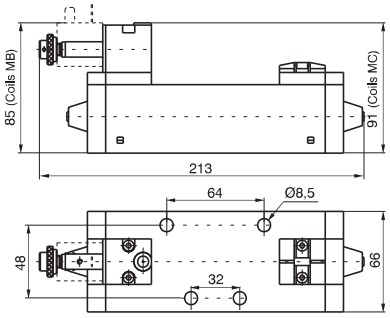
Weight 1050 g
Minimum pilot pressure 3 bar

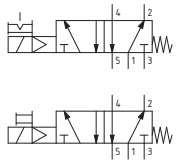
Solenoid-Spring

Coding: 1013.52.3.9.Ⓜ

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)	3600

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





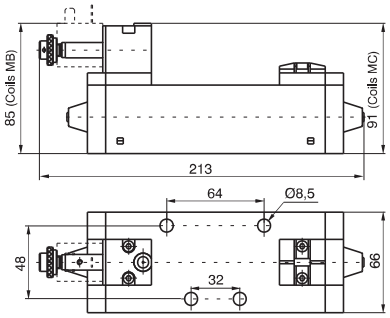
Weight 1060 g
Minimum pilot pressure 2,5 bar

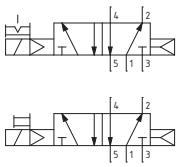
Solenoid-Differential

Coding: 1013.52.3.6.Ⓜ

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)	3600

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





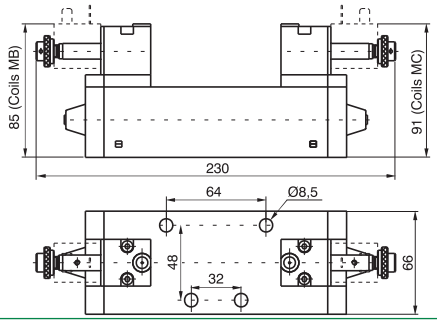
Weight 1080 g
Minimum pilot pressure 2 bar

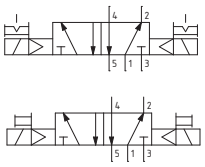
Solenoid-Solenoid 5/2

Coding: 1013.52.3.5.Ⓜ

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)	3600

Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO





Weight 1170 g
Minimum pilot pressure 1,5 bar

Solenoid-Solenoid 5/3

Coding: 1013.53.Ⓕ.3.5.Ⓜ

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)	3000

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
Ⓜ	MECHANIC
	SEE VALVES SERIES 300 CNOMO