



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  US solenoid coil are available (see Series 300).

1 AIR DISTRIBUTION

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

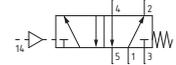
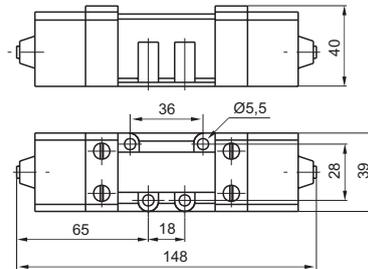
Series 1000	Size 1	Size 2
Body	Zinc alloy	Aluminium
Operators	Zinc alloy	Aluminium
Spools	Steel	Steel
Seals	NBR	NBR
Spacers	Technopolymer	Aluminium
Springs	Spring steel	Spring steel
Selectors	NBR	NBR

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 $\Delta p=1$ (NI/min)	840

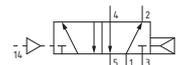
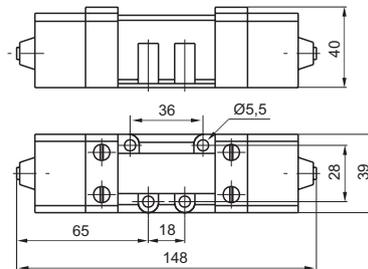


Weight 780 g
Minimum pilot pressure 2,5 bar

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 $\Delta p=1$ (NI/min)	840

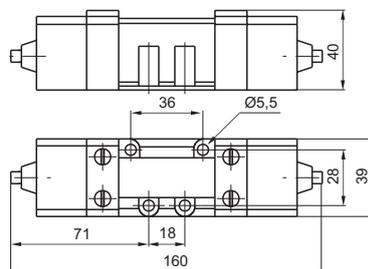


Weight 790 g
Minimum pilot pressure 2 bar

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 $\Delta p=1$ (NI/min)	840



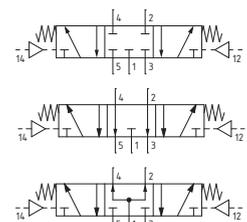
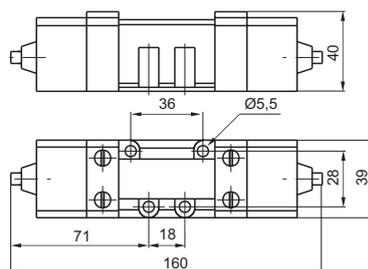
Weight 800 g
Minimum pilot pressure 1,5 bar

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 $\Delta p=1$ (NI/min)	720

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

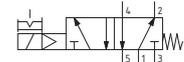
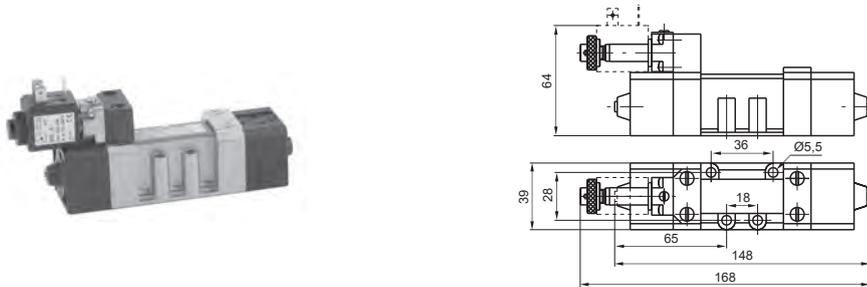


Weight 800 g
Minimum pilot pressure 3 bar

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 $\Delta p=1$ (NI/min)	840

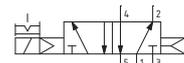
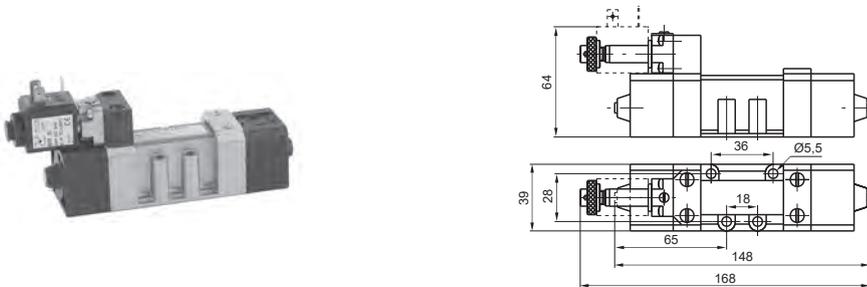


Weight 890 g
Minimum pilot pressure 2,5 bar

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 $\Delta p=1$ (NI/min)	840

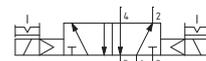
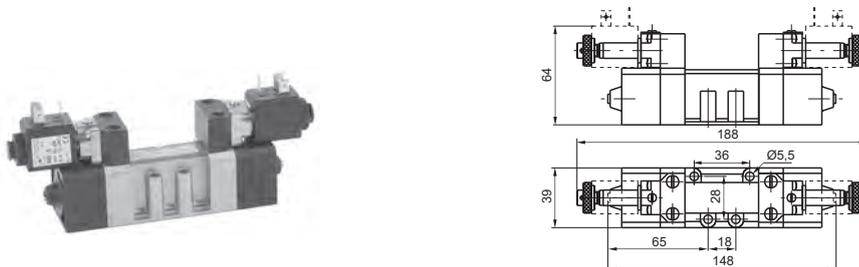


Weight 900 g
Minimum pilot pressure 2 bar

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 $\Delta p=1$ (NI/min)	840



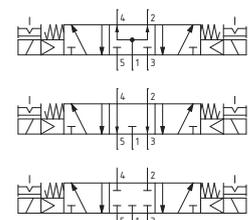
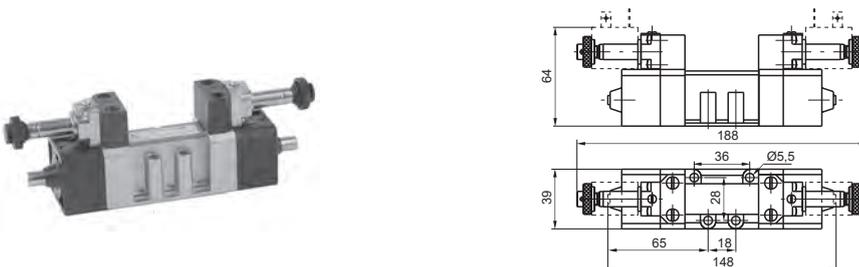
Weight 1040 g
Minimum pilot pressure 1,5 bar

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 $\Delta p=1$ (NI/min)	720

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

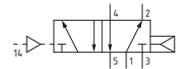
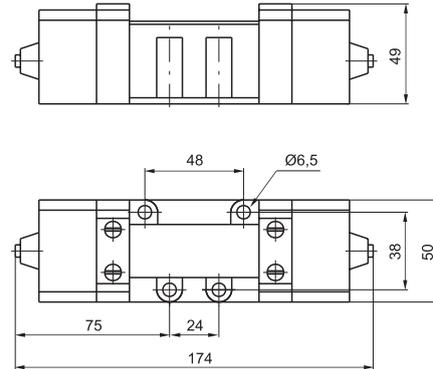


Weight 1040 g
Minimum pilot pressure 3 bar

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 $\Delta p=1$ (NI/min)	1700

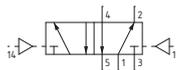
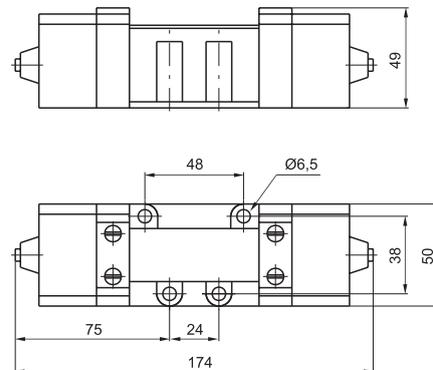


Weight 730 g
Minimum pilot pressure 2 bar

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 $\Delta p=1$ (NI/min)	1700



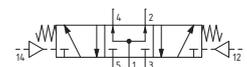
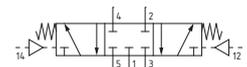
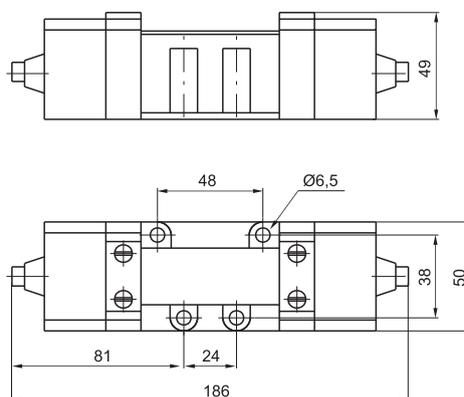
Weight 800 g
Minimum pilot pressure 1,5 bar

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 $\Delta p=1$ (NI/min)	1700

FUNCTION	
⊖	31 = Closed centres
⊕	32 = Open centres
⊙	33 = Pressured centres

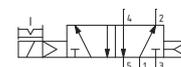
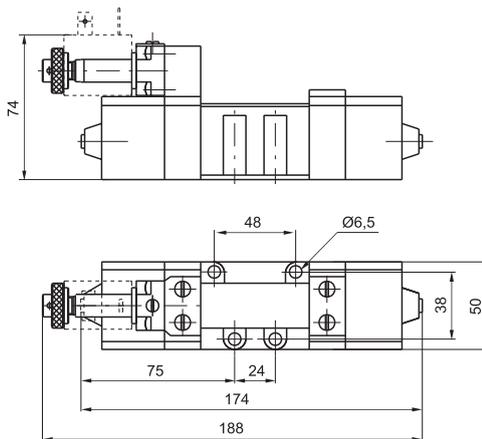


Weight 740 g
Minimum pilot pressure 3 bar

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 $\Delta p=1$ (NI/min)	1700

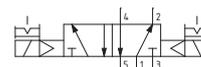
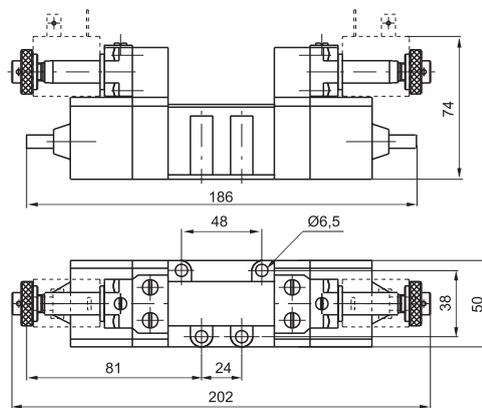


Weight 850 g
Minimum pilot pressure 2 bar

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 $\Delta p=1$ (NI/min)	1700



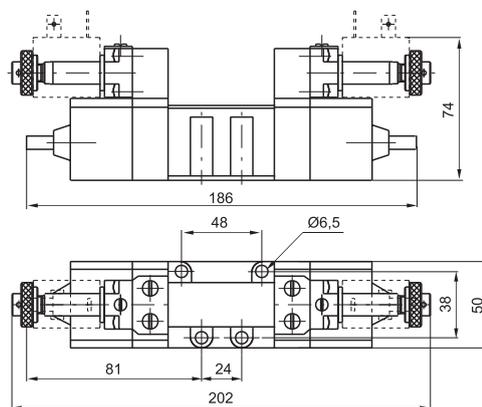
Weight 980 g
Minimum pilot pressure 1,5 bar

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 $\Delta p=1$ (NI/min)	1700

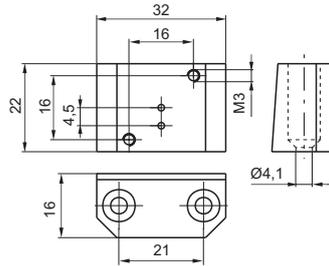
FUNCTION	
31	Closed centres
32	Open centres
33	Pressured centres



Weight 980 g
Minimum pilot pressure 3 bar

► Base for 32 mm Solenoid valve

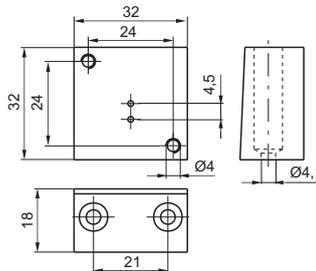
Coding: 1001.05



Weight 60 g

► Base CNOMO for 32 mm Solenoid valve

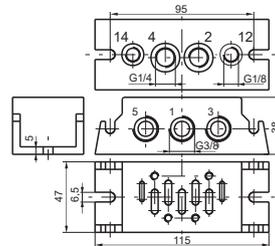
Coding: 1001.04



Weight 90 g

► Base with bottom connections size 1

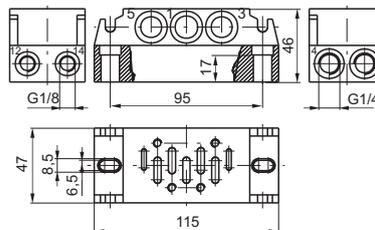
Coding: 1001.00



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

► Base with side connections size 1

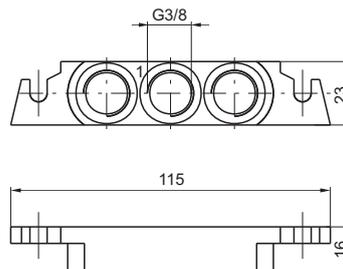
Coding: 1001.01



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

► Inlet blocks

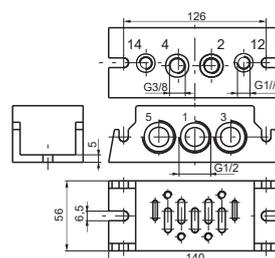
Coding: 1001.02



Weight 55 g

► Base with bottom connections size 2

Coding: 1002.00

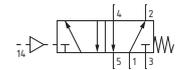
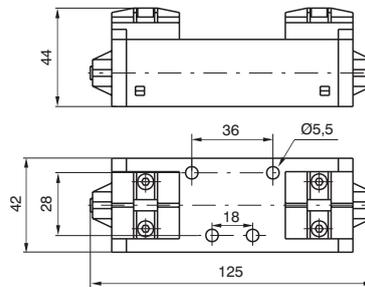


Weight 520 g
1=INLET PORT, 2-4=OUTLET PORTS,
3-5=EXHAUST PORTS, 12-14=PILOT PORTS

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 $\Delta p=1$ (NI/min)	900

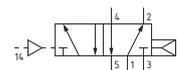
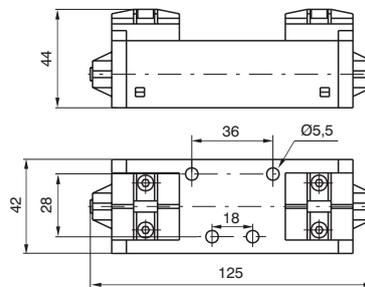


Weight 230 g
Minimum pilot pressure 2,5 bar

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 $\Delta p=1$ (NI/min)	900

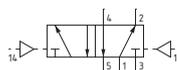
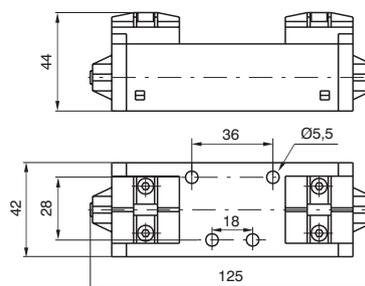


Weight 240 g
Minimum pilot pressure 2 bar

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 $\Delta p=1$ (NI/min)	900



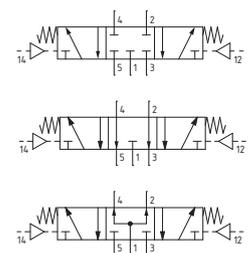
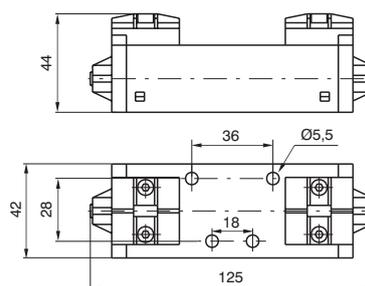
Weight 240 g
Minimum pilot pressure 1,5 bar

Pneumatic-Pneumatic 5/3

Coding: 1011.53.1.8

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 $\Delta p=1$ (NI/min)	900

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



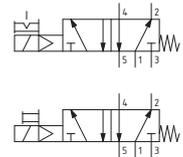
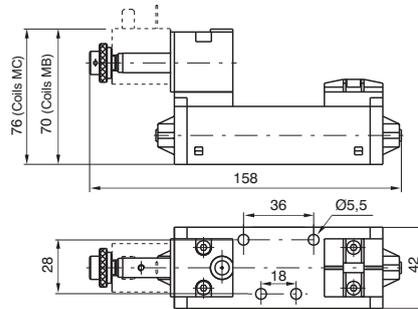
Weight 240 g
Minimum pilot pressure 3 bar

Solenoid-Spring

Coding: 1011.52.3.9. **M**

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)	900

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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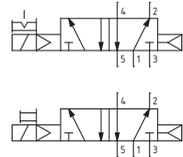
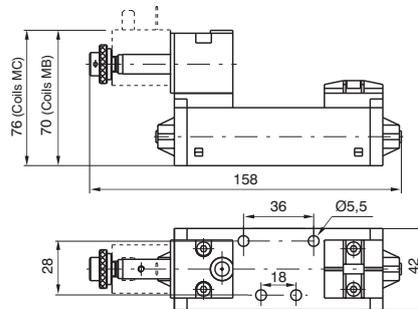
Weight 290 g
Minimum pilot pressure 2,5 bar

Solenoid-Differential

Coding: 1011.52.3.6. **M**

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)	900

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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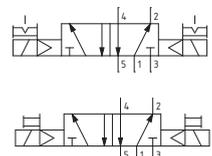
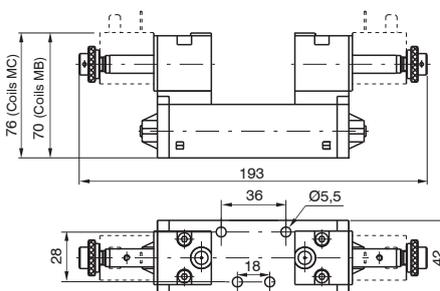
Weight 290 g
Minimum pilot pressure 2 bar

Solenoid-Solenoid 5/2

Coding: 1011.52.3.5. **M**

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)	900

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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Weight 350 g
Minimum pilot pressure 1,5 bar

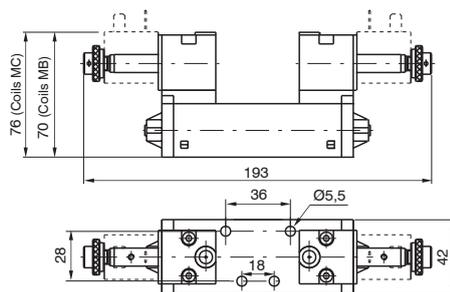
Solenoid-Solenoid 5/3

Coding: 1011.53. **F**.3.5. **M**

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)	900

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

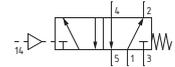
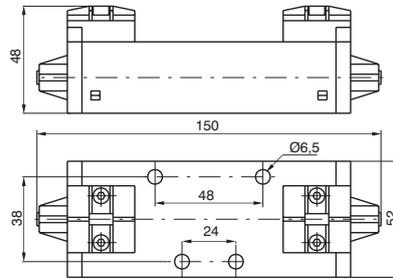
Weight 350 g
Minimum pilot pressure 3 bar



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 $\Delta p=1$ (NI/min)	1600

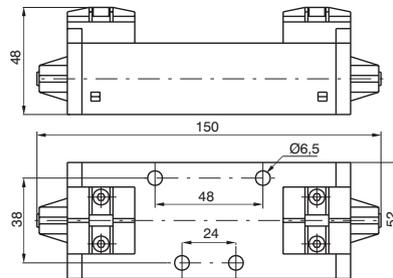


Weight 300 g
Minimum pilot pressure 2,5 bar

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 $\Delta p=1$ (NI/min)	1600

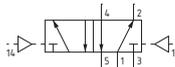
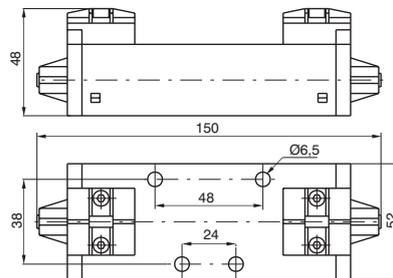


Weight 310 g
Minimum pilot pressure 2 bar

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 $\Delta p=1$ (NI/min)	1600



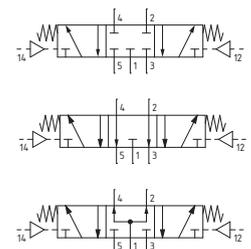
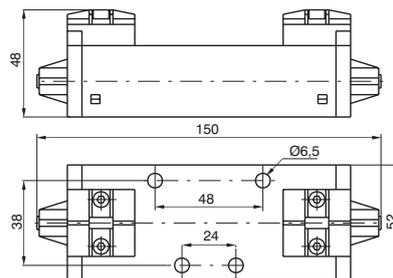
Weight 310 g
Minimum pilot pressure 1,5 bar

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 $\Delta p=1$ (NI/min)	1600

FUNCTION	
F 31	Closed centres
32	Open centres
33	Pressured centres



Weight 310 g
Minimum pilot pressure 3 bar

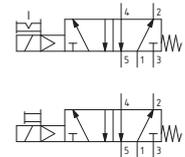
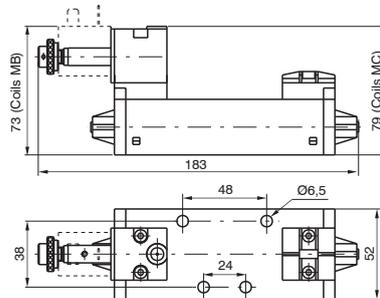
1012.53.1.8

Solenoid-Spring

Coding: 1012.52.3.9. **M**

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)	1600

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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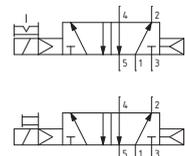
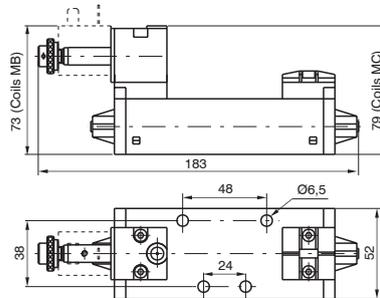
Weight 360 g
Minimum pilot pressure 2,5 bar

Solenoid-Differential

Coding: 1012.52.3.6. **M**

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)	1600

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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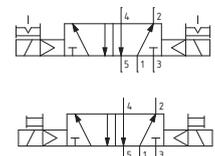
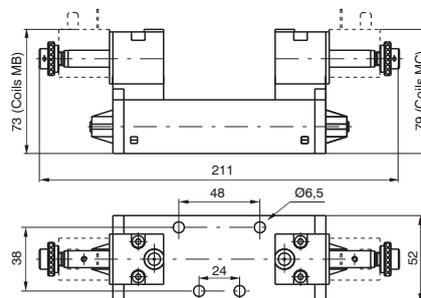
Weight 360 g
Minimum pilot pressure 2 bar

Solenoid-Solenoid 5/2

Coding: 1012.52.3.5. **M**

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)	1600

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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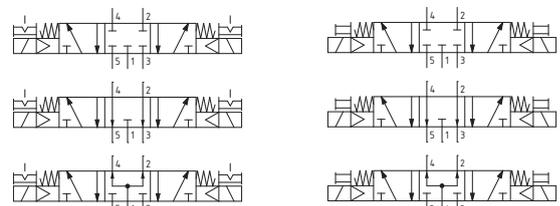
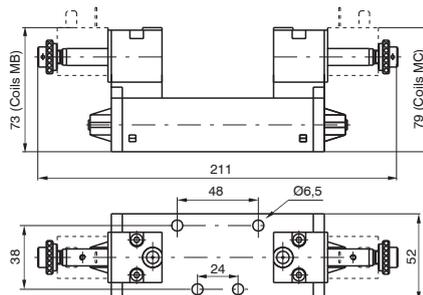
Weight 420 g
Minimum pilot pressure 1,5 bar

Solenoid-Solenoid 5/3

Coding: 1012.53. **F**.3.5. **M**

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)	1600

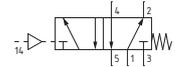
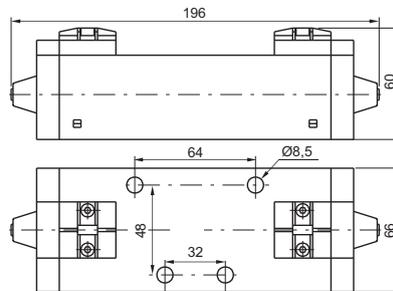
F	FUNCTION 31 = Closed centres 32 = Open centres 33 = Pressured centres
M	MECHANIC SEE VALVES SERIES 300 CNOMO



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 $\Delta p=1$ (NI/min)	3600

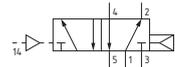
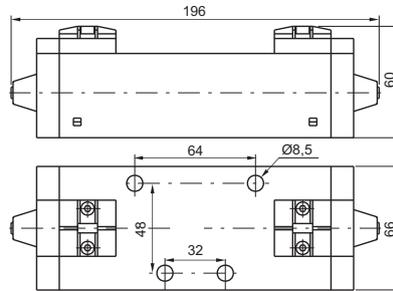


Weight 1000 g
Minimum pilot pressure 2,5 bar

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 $\Delta p=1$ (NI/min)	3600

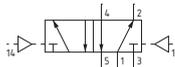
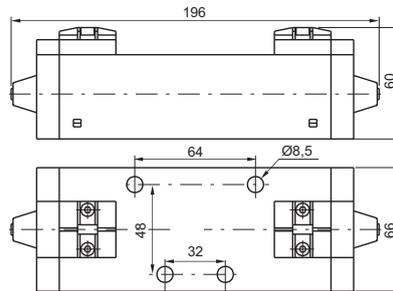


Weight 1020 g
Minimum pilot pressure 2 bar

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 $\Delta p=1$ (NI/min)	3600



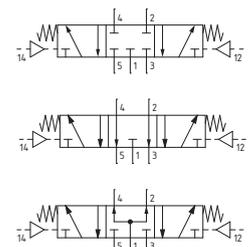
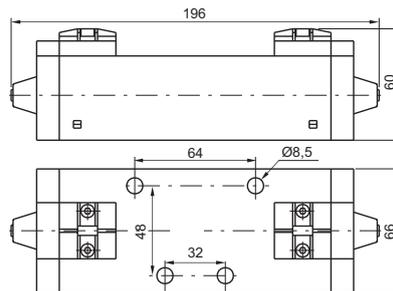
Weight 1050 g
Minimum pilot pressure 1,5 bar

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 $\Delta p=1$ (NI/min)	3000

FUNCTION	
F 31	Closed centres
32	Open centres
33	Pressured centres



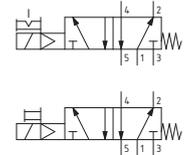
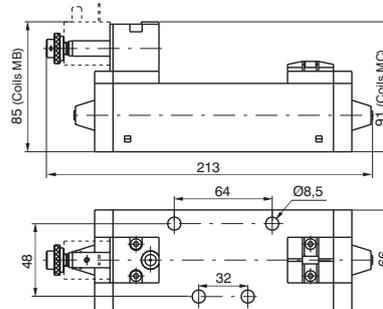
Weight 1050 g
Minimum pilot pressure 3 bar

Solenoid-Spring

Coding: 1013.52.3.9. **M**

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)	3600

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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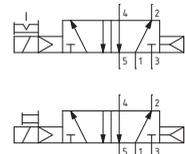
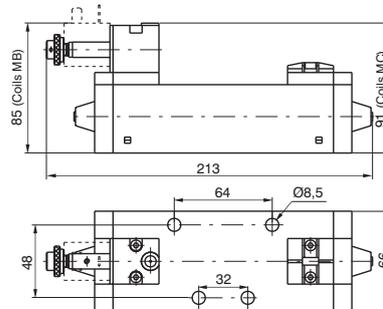
Weight 1060 g
Minimum pilot pressure 2,5 bar

Solenoid-Differential

Coding: 1013.52.3.6. **M**

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)	3600

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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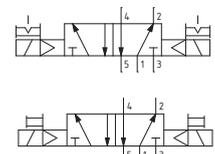
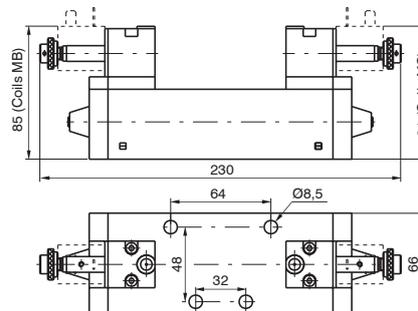
Weight 1080 g
Minimum pilot pressure 2 bar

Solenoid-Solenoid 5/2

Coding: 1013.52.3.5. **M**

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)	3600

M	MECHANIC SEE VALVES SERIES 300 CNOMO
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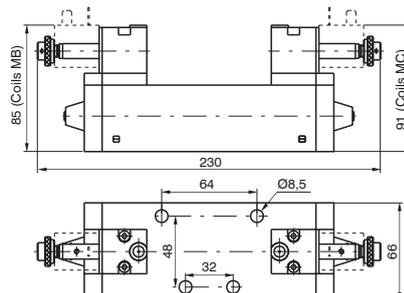
Weight 1170 g
Minimum pilot pressure 1,5 bar

Solenoid-Solenoid 5/3

Coding: 1013.53. **F**.3.5. **M**

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)	3000

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





Series 1100 - Modular bases with side and bottom connections

These bases are manufactured with the outlet and pilot ports on both the sides and the bottom faces giving the option for use with any application. Unused ports must be blanked off using threaded plugs which are not included in the part number or price. To isolate bases from each other for use with different supply pressures ports 1, 3 & 5 should be plugged underneath the seal. The codes are:
1101.17 (size 1)-1102.17 (size 2)-1103.17 (size 3)

1

AIR DISTRIBUTION

Modular bases

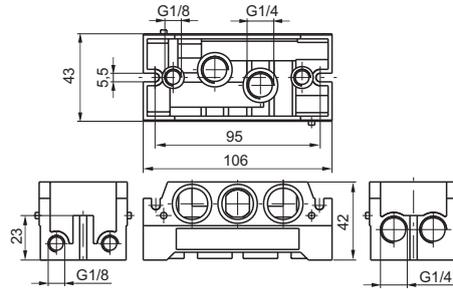
Coding: 110^T.00

SIZE
1 = Size 1
2 = Size 2
3 = Size 3



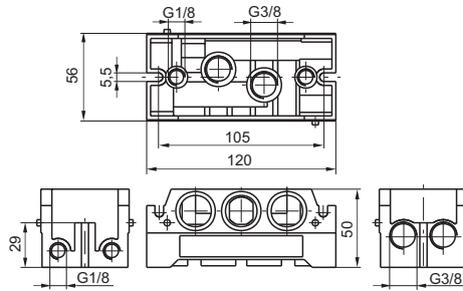
Weight 240 g

1101.00



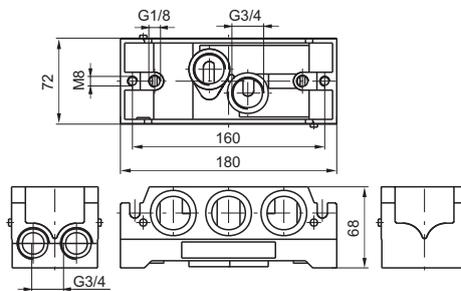
Weight 340 g

1102.00



Weight 950 g

1103.00

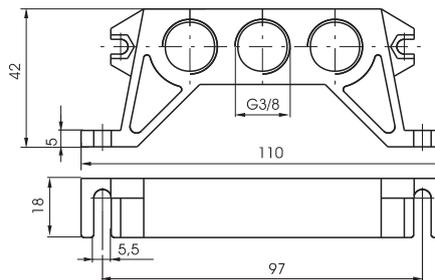


Inlet blocks, Size 1

Coding: 1101.09



Weight 100 g

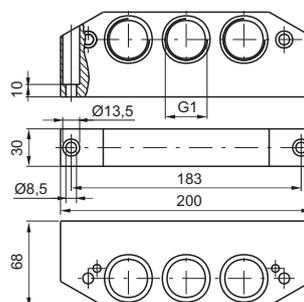


Inlet blocks, Size 3

Coding: 1103.11



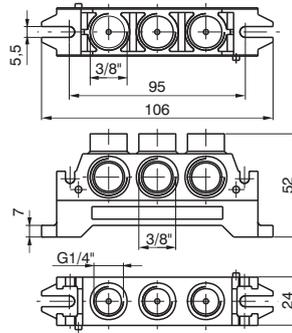
Weight 840 g



1
AIR DISTRIBUTION

Inlet blocks

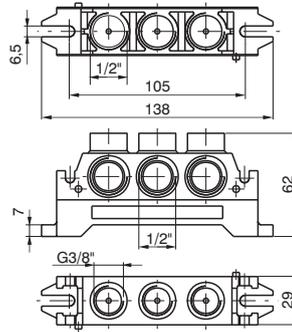
Coding: 110 **T**.**N**



Weight 160 g

1101.**N**

	SIZE
T	1 = Size 1
	2 = Size 2
	CONNECTIONS
	10 = Universal
N	11 = Stand alone
	12 = Top connections
	13 = Bottom connections



Weight 230 g

1102.**N**

1 AIR DISTRIBUTION

Single use bases

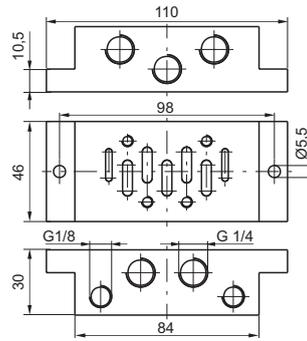
Coding: 110 T F

SIZE	
T	1 = Size 1
	2 = Size 2
	3 = Size 3
SHAPE	
F	14 = Shape A
	15 = Shape B (only for sizes 1 & 2)



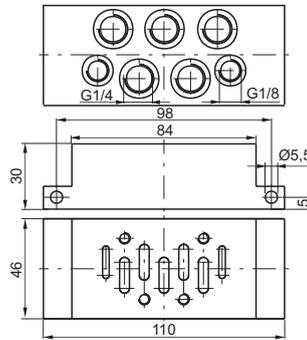
Weight 160 g

1101.14



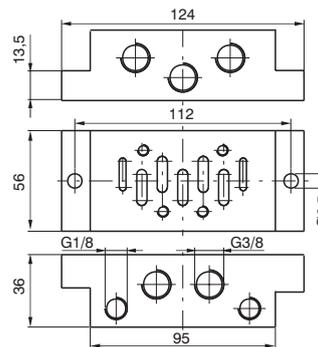
Weight 190 g

1101.15



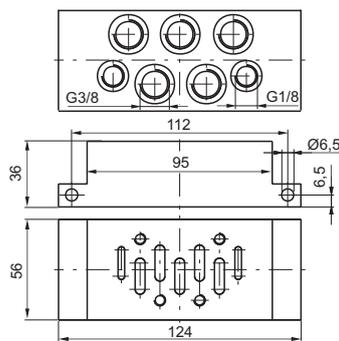
Weight 190 g

1102.14



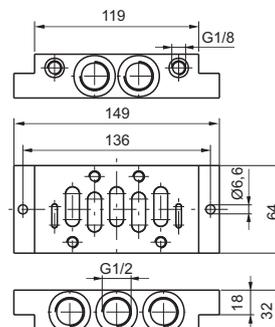
Weight 220 g

1102.15



Weight 600 g

1103.14



1 AIR DISTRIBUTION

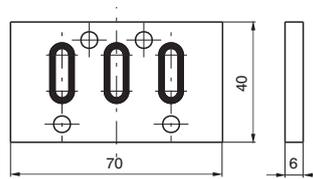
▶ Closing plate

Coding: 1100.16

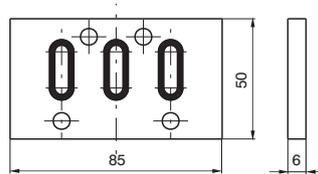
	SIZE
1	1 = Size 1
2	2 = Size 2
3	3 = Size 3



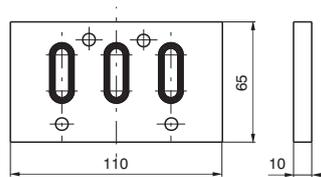
1101.16



1102.16



1103.16



▶ Base adaptor

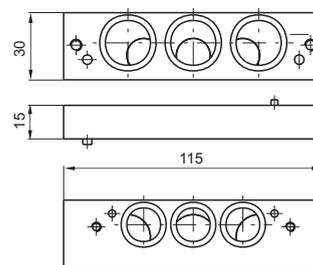
Coding: 1100.1

	SIZE
1	2-1 = Sizes 1 and 2
3-2	3 = Sizes 2 and 3



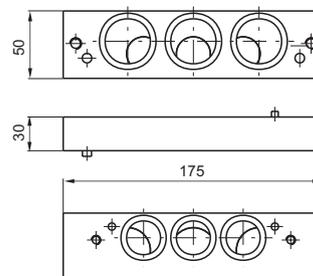
Weight 110 g

1100.2-1



Weight 590 g

1100.3-2



Series 1000 M12 - Size 1, 2 and 3

The ISO 5599/1 Solenoid valves Series 1000 M12 are available in three sizes with flow rates from 900 NI/min for size 1 up to the 3600 NI/min for size 3.

The standard features of the ISO valves are still included, however, they are now combined with a M12 electrical connector located in the middle of the valve to manage the electrical signals.

Versions are available to suit valves with both single and double 24VDC solenoids complete with IP65 protection.

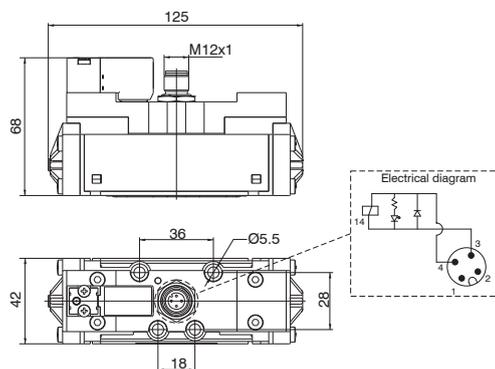
All version are supplied with LED indicators

“Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001”

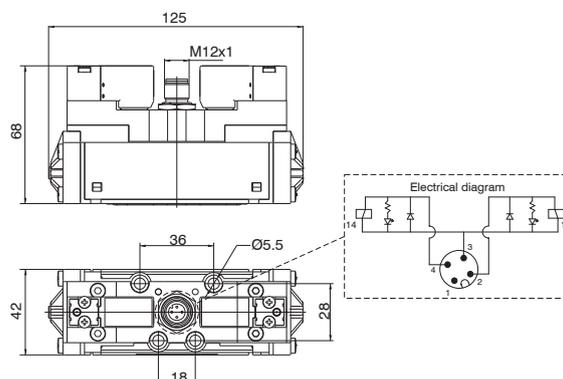
Electrical characteristics

- Electrical connector M12x1
- Protection degree IP65
- Input voltage 24VDC
- Nominal power 2,3W
- LED identification

Monostable version



Bistable version

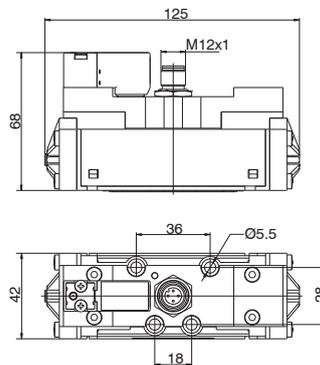


Solenoid-Spring

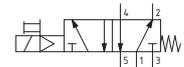
Coding: 1111.52.3.9.Ⓡ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2,5
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	900
Response time according to ISO 12238, activation time (ms)	16
Response time according to ISO 12238, deactivation time (ms)	122

Ⓡ	VOLTAGE
	12P = 24VDC



Weight 350 g

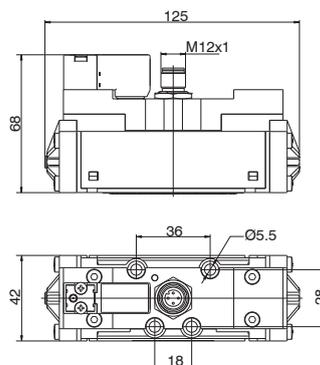


Solenoid-Differential

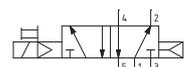
Coding: 1111.52.3.6.Ⓡ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	900
Response time according to ISO 12238, activation time (ms)	32
Response time according to ISO 12238, deactivation time (ms)	51

Ⓡ	VOLTAGE
	12P = 24VDC



Weight 356 g

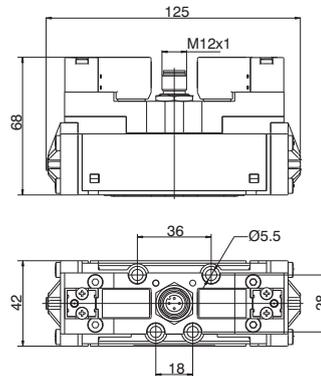


Solenoid-Solenoid 5/2

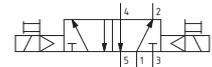
Coding: 1111.52.3.5. **1**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	1.5
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	900
Response time according to ISO 12238, activation time (ms)	13
Response time according to ISO 12238, deactivation time (ms)	14

1	VOLTAGE
	12P = 24VDC



Weight 390 g

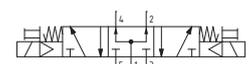
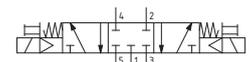
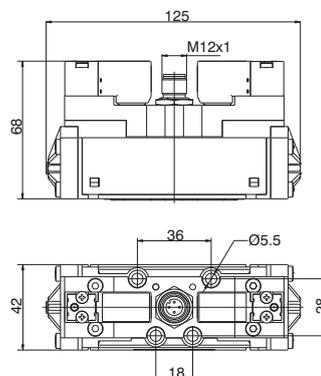


Solenoid-Solenoid 5/3

Coding: 1111.53. **3**.3.5. **1**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	900
Response time according to ISO 12238, activation time (ms)	18 (Closed centres) 18 (Open centres) 19 (Pressured centres)
Response time according to ISO 12238, deactivation time (ms)	19 (Closed centres) 20 (Open centres) 18 (Pressured centres)

3	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
1	VOLTAGE
	12P = 24VDC



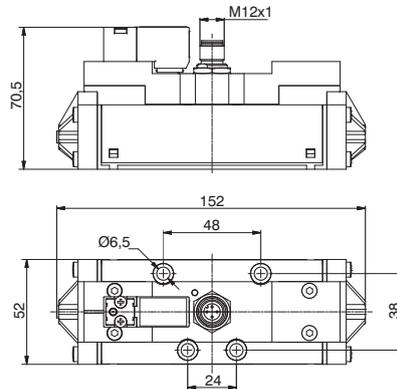
Weight 392 g

Solenoid-Spring

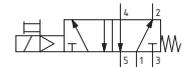
Coding: 1112.52.3.9.①

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2,5
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1600
Response time according to ISO 12238, activation time (ms)	24
Response time according to ISO 12238, deactivation time (ms)	124

①	VOLTAGE
	12P = 24VDC



Weight 510 g

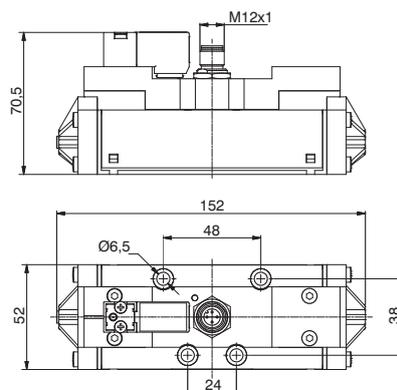


Solenoid-Differential

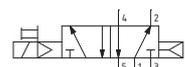
Coding: 1112.52.3.6.①

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1600
Response time according to ISO 12238, activation time (ms)	37
Response time according to ISO 12238, deactivation time (ms)	90

①	VOLTAGE
	12P = 24VDC



Weight 515 g

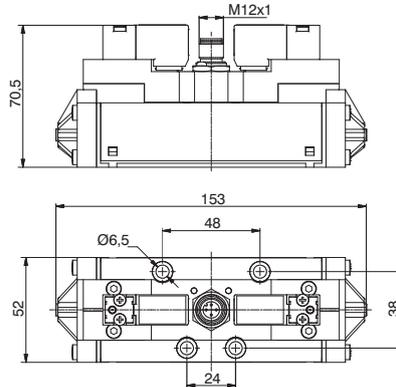


Solenoid-Solenoid 5/2

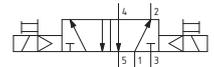
Coding: 1112.52.3.5.①

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	1.5
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (NI/min)	1600
Response time according to ISO 12238, activation time (ms)	17
Response time according to ISO 12238, deactivation time (ms)	20

①	VOLTAGE 12P = 24VDC
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Weight 550 g

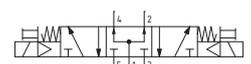
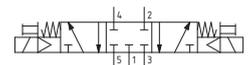
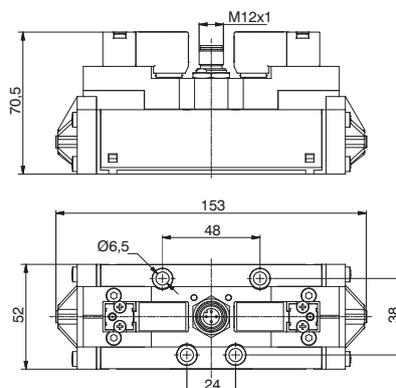


Solenoid-Solenoid 5/3

Coding: 1112.53.②.3.5.①

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (NI/min)	1600
Response time according to ISO 12238, activation time (ms)	18 (Closed centres) 18 (Open centres) 20 (Pressured centres)
Response time according to ISO 12238, deactivation time (ms)	112 (Closed centres) 106 (Open centres) 118 (Pressured centres)

FUNCTION	
②	31 = Closed centres 32 = Open centres 33 = Pressured centres
①	VOLTAGE 12P = 24VDC



Weight 560 g

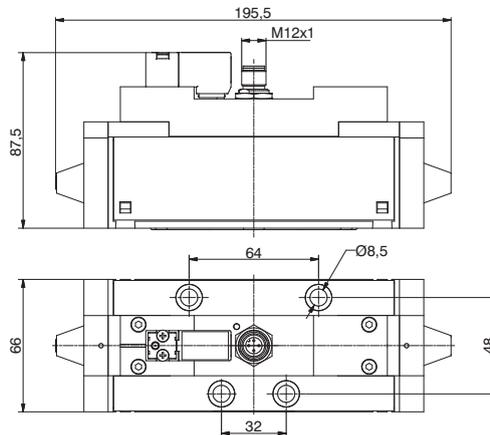
Solenoid-Spring

Coding: 1113.52.3.9.①

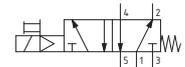
Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2,5
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3600
Response time according to ISO 12238, activation time (ms)	46
Response time according to ISO 12238, deactivation time (ms)	254

①	VOLTAGE
	12P = 24VDC



Weight 1360 g



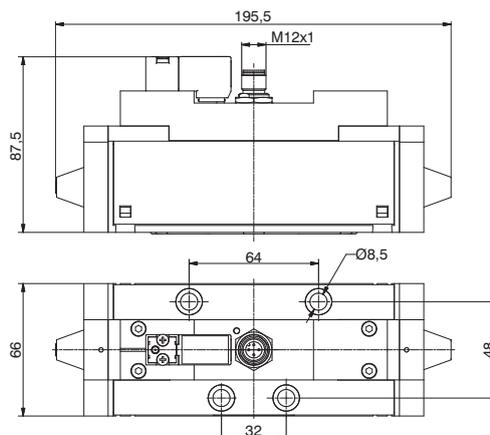
Solenoid-Differential

Coding: 1113.52.3.6.①

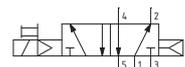
Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3600
Response time according to ISO 12238, activation time (ms)	78
Response time according to ISO 12238, deactivation time (ms)	180

①	VOLTAGE
	12P = 24VDC



Weight 1360 g



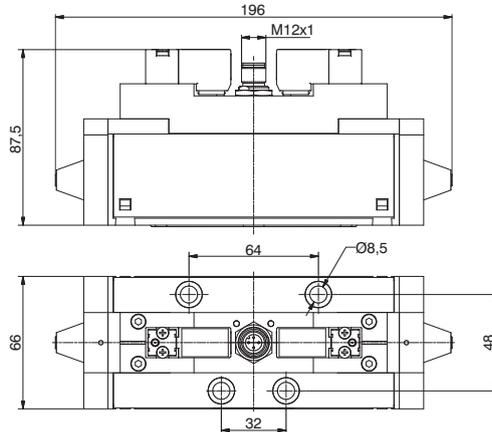
1 AIR DISTRIBUTION

Solenoid-Solenoid 5/2

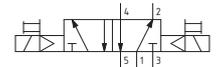
Coding: 1113.52.3.5.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	1.5
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (NI/min)	3600
Response time according to ISO 12238, activation time (ms)	32
Response time according to ISO 12238, deactivation time (ms)	37

V	VOLTAGE
	12P = 24VDC



Weight 1370 g

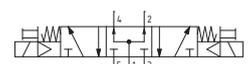
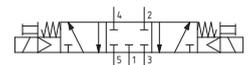
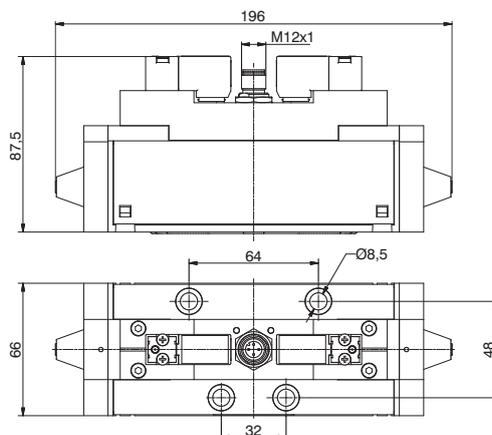
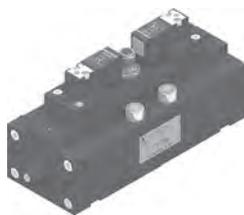


Solenoid-Solenoid 5/3

Coding: 1113.53.F.3.5.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (NI/min)	3600
Response time according to ISO 12238, activation time (ms)	30 (Closed centres) 30 (Open centres) 32 (Pressured centres)
Response time according to ISO 12238, deactivation time (ms)	305 (Closed centres) 230 (Open centres) 270 (Pressured centres)

F	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
V	VOLTAGE
	12P = 24VDC



Weight 1380 g