

General

5 ways 2 or 3 positions distributors and electric distributors can be used mounted on individual or ganged bases. A special feature of these devices is that some of their dimensional and functional characteristics comply with international standards, which require that distributors manufactured by different makers be interchangeable. 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 Serie 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 (see Series 300). (M2 coil are not included and have to be ordering separately).**

Coil for M2 and solenoid "S" C  US homologated are available (see Series 300).

The series 1010 includes 3 sizes: 1, 2 and 3. The body and operators of distributor size 1 and 2 are built of acetal resin protected by an anodized aluminium cap, while size 3 is made of die-cast aluminium with protection cap as well. The selection is made as above. For the electro-distributors it is used the electro-pilots CNOMO Series M with possibility to instal the coils ISO 4400 (DIN 43650) or the coil MB 22x22.

Use and maintenance

These distributors have an average life span ranging between 10 and 15 million cycles, depending on operating conditions. Proper lubrication cuts down the wear of the seals drastically, in the same way as proper filtering prevents the build-up of dirt and consequent malfunctioning of the distributors. 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 Serie 1010.

Size 1 = 4 Nm

Size 2 = 5 Nm

Size 3 = 8 Nm

Assembly kits, including the spool and seals subject to wear, are available for servicing, which can be carried out by anyone provided proper care is taken when reassembling the distributors.

ATTENTION : use only class H Hydraulic oils for lubrication. e.g. MAGNA GC 32 (CASTROL).

Construction characteristics

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


Pneumatic - Spring - 5/2

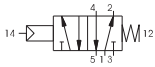
Ordering code

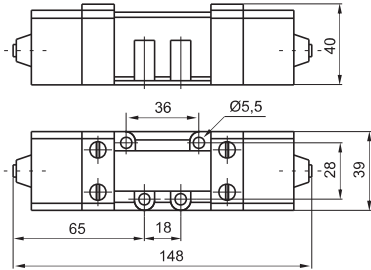
1001.52.1.9

Weight gr. 780

Minimum operating pressure 2,5 bar







Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +70	840


Pneumatic - Differential - 5/2

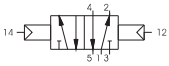
Ordering code

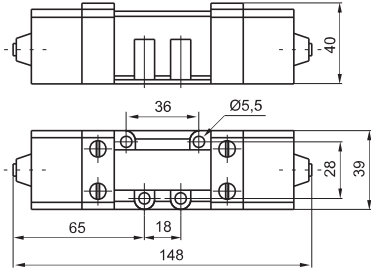
1001.52.1.6

Weight gr. 790

Minimum operating pressure 2 bar







Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +70	840


Pneumatic - Pneumatic - 5/2

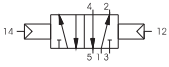
Ordering code

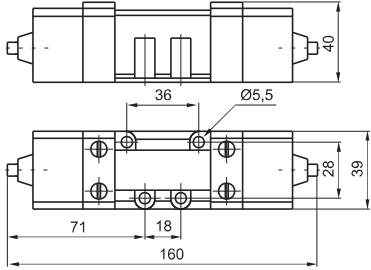
1001.52.1.8

Weight gr. 800

Minimum operating pressure 1,5 bar







Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +70	840

Pneumatic - Pneumatic - 5/3

Ordering code

1001.53.Ⓡ.1.8

FUNCTION


Ⓡ 31=Closed centres

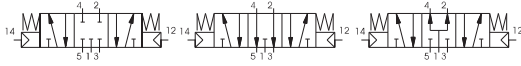
32=Open centres

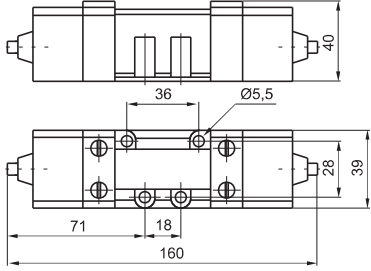
33=Pressured centres

Weight gr. 800

Minimum operating pressure 3 bar







Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +70	720

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice.

2.114

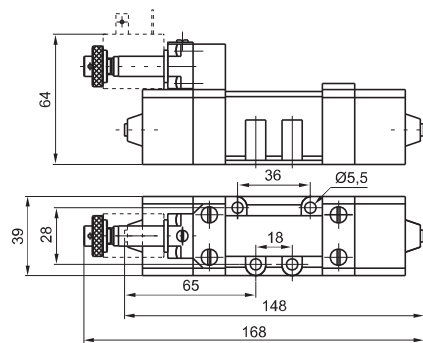
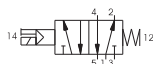
Solenoid - Spring - 5/2

Ordering code

1051.52.3.9.M2



Weight gr. 890
Minimum operating pressure 2,5 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

840

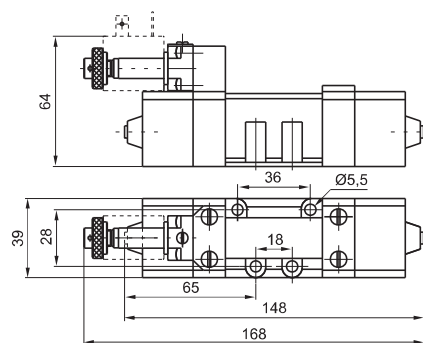
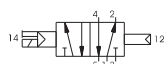
Solenoid - Differential - 5/2

Ordering code

1051.52.3.6.M2



Weight gr. 900
Minimum operating pressure 2 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

840

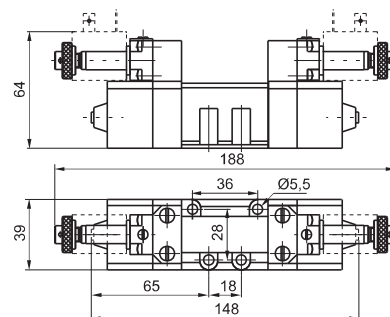
Solenoid - Solenoid - 5/2

Ordering code

1051.52.3.5.M2



Weight gr. 1040
Minimum operating pressure 1,5 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

840

Solenoid - Solenoid - 5/3

Ordering code

1051.53.3.5.M2

FUNCTION

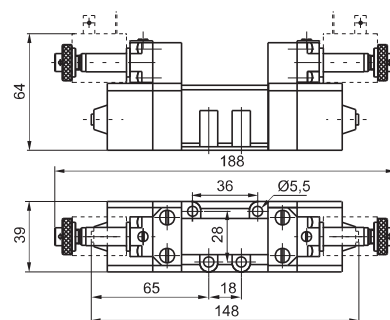
31=Closed centres

32=Open centres

33=Pressured centres



Weight gr. 1040
Minimum operating pressure 3 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10


-5 - +50

720

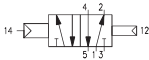
Pneumatic - Differential - 5/2

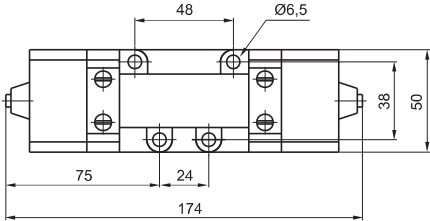
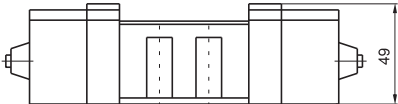
Ordering code

1002.52.1.6



Weight gr. 730
Minimum operating pressure 2 bar






Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +70	1700


Pneumatic - Pneumatic - 5/2

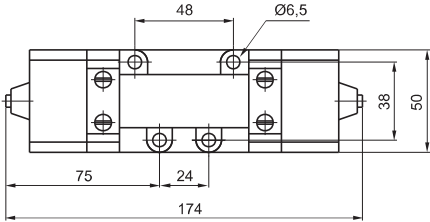
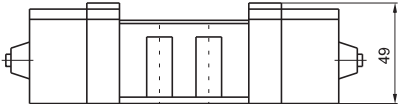
Ordering code

1002.52.1.8



Weight gr. 800
Minimum operating pressure 1,5 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +70	1700

Pneumatic - Pneumatic - 5/3


Ordering code

1002.53.F.1.8


FUNCTION

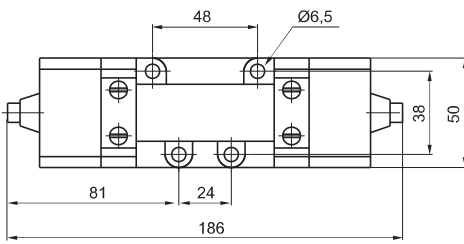
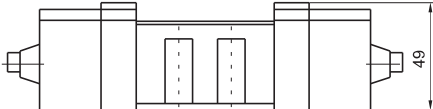
F

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



Weight gr. 740
Minimum operating pressure 3 bar





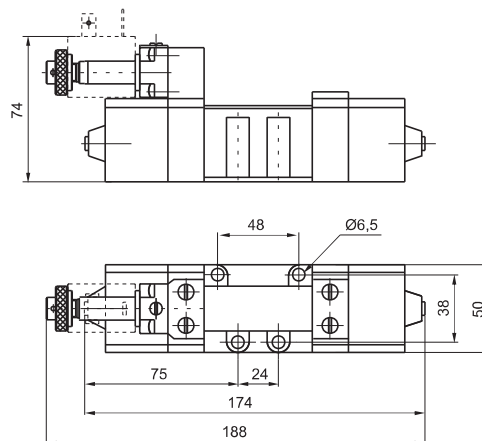
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +70	1700

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice.

2.116

Solenoid - Differential - 5/2

Ordering code

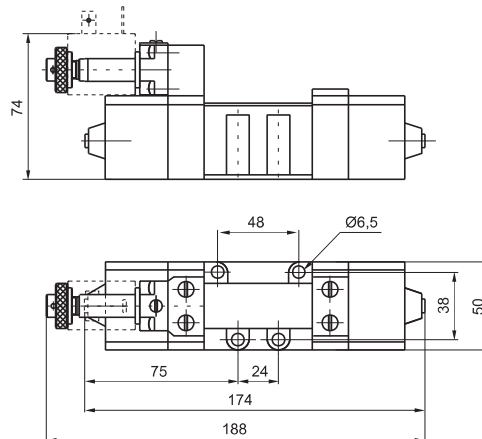
1052.52.3.6.M2

Weight gr. 850
Minimum operating pressure 2 bar

Operational characteristic

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)
Filtered and lubricated air	10	-5 - +50	1700

Solenoid - Solenoid - 5/2

Ordering code

1052.52.3.5.M2

Weight gr. 980
Minimum operating pressure 1,5 bar

Operational characteristic

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)
Filtered and lubricated air	10	-5 - +50	1700

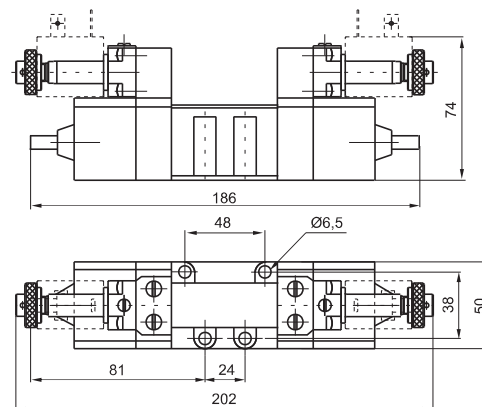
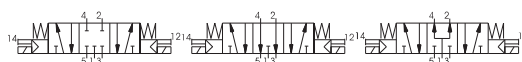
Solenoid - Solenoid - 5/3

Ordering code

1052.53.F.3.5.M2

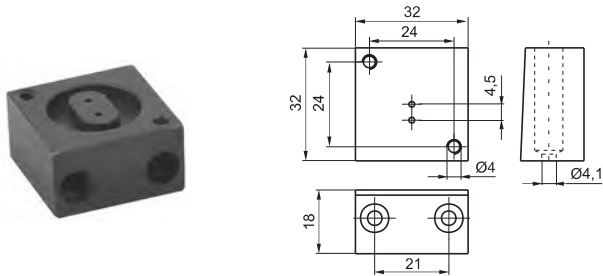
FUNCTION

- F**
- 31=Closed centres
 - 32=Open centres
 - 33=Pressured centres


Weight gr. 980
Minimum operating pressure 3 bar

Operational characteristic

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)
Filtered and lubricated air	10	-5 - +50	1700

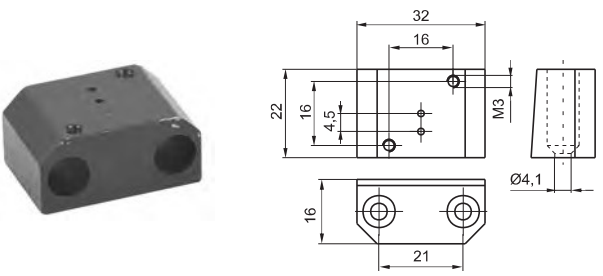
Base CNOMO for 32 mm Solenoid valve



Ordering code
1001.04

Weight gr. 90

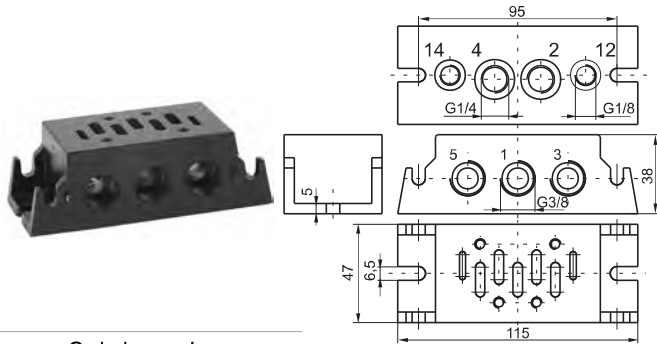
Base for 32 mm Solenoid valve



Ordering code
1001.05

Weight gr. 60

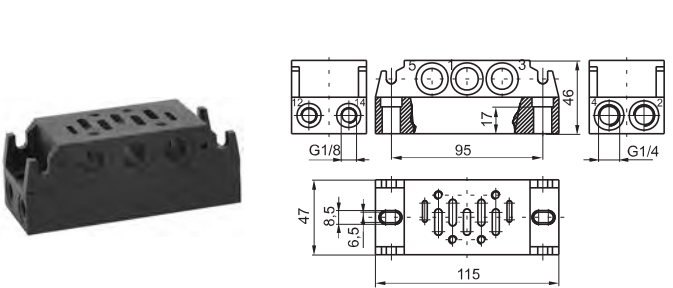
Base with bottom connections size 1



Ordering code
1001.00

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

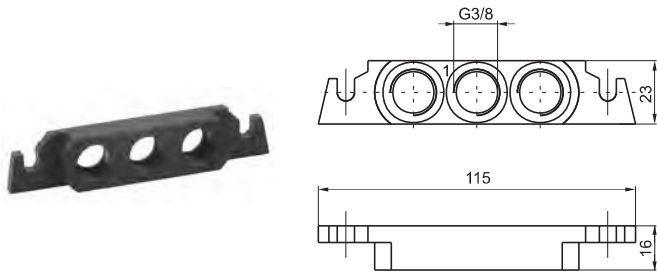
Base with side connections size 1



Ordering code
1001.01

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

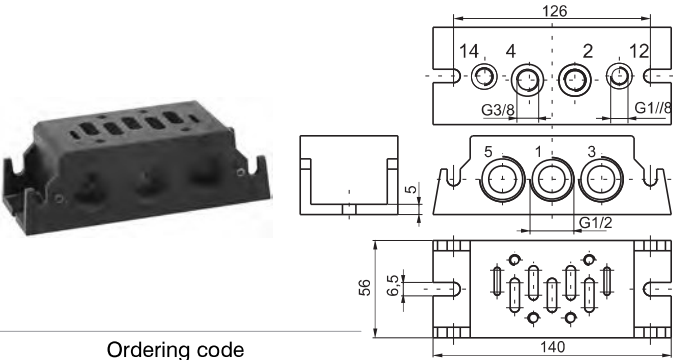
Inlet blocks



Ordering code
1001.02

Weight gr. 55

Base with bottom connections size 2



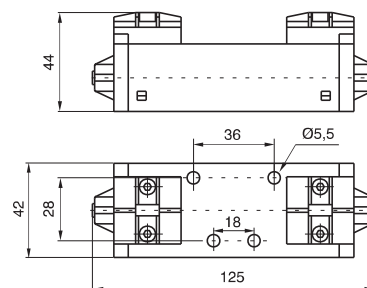
Ordering code
1002.00

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

Pneumatic - Spring - 5/2

Ordering code

1011.52.1.9

 Weight gr. 230
 Minimum operating pressure 2,5 bar

Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

 Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

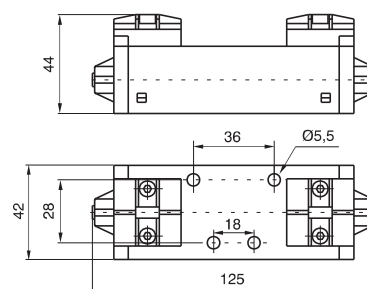
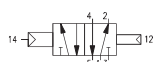
-5 - +50

900

Pneumatic - Differential - 5/2

Ordering code

1011.52.1.6

 Weight gr. 240
 Minimum operating pressure 2 bar

Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

 Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

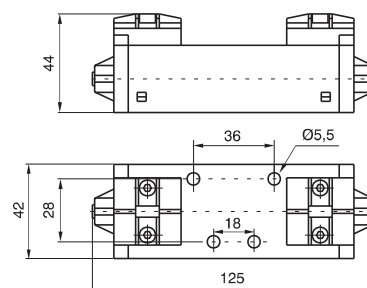
-5 - +50

900

Pneumatic - Pneumatic - 5/2

Ordering code

1011.52.1.8

 Weight gr. 240
 Minimum operating pressure 1,5 bar

Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

 Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

900

Pneumatic - Pneumatic - 5/3

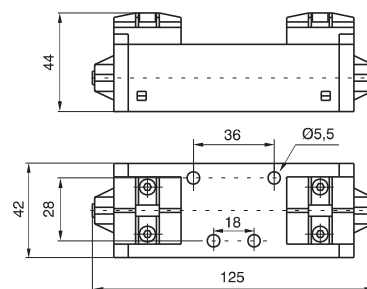
Ordering code

1011.53.F.1.8

FUNCTION

F

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

 Weight gr. 240
 Minimum operating pressure 3 bar

Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

 Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

900



Solenoid - Spring - 5/2

Ordering code

1011.52.3.9.M

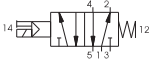

M

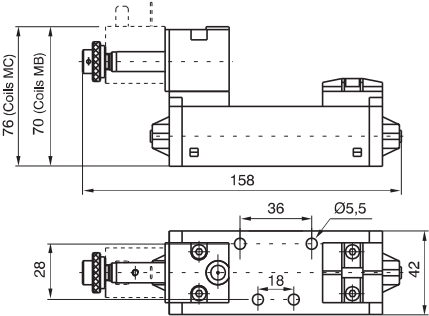
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 290

Minimum operating pressure 2,5 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	900

Solenoid - Differential - 5/2

Ordering code

1011.52.3.6.M



M

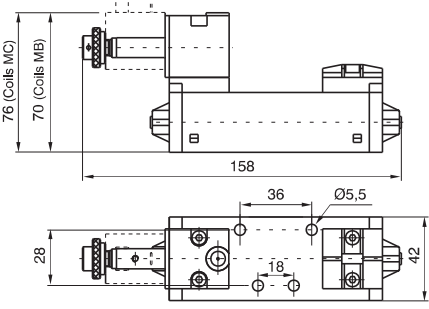
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 290

Minimum operating pressure 2 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	900

Solenoid - Solenoid - 5/2

Ordering code

1011.52.3.5.M



M

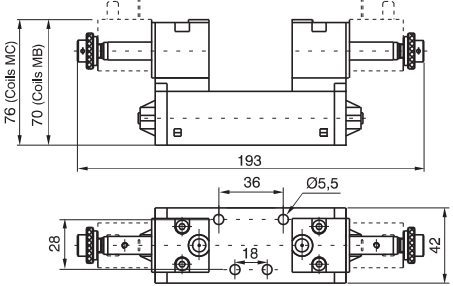
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 350

Minimum operating pressure 1,5 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	900

Solenoid - Solenoid - 5/3

Ordering code

1011.53.F.3.5.M

F

FUNCTION

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



M

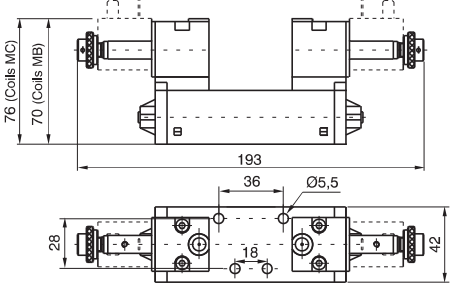
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 350

Minimum operating pressure 3 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	900

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2.120

2

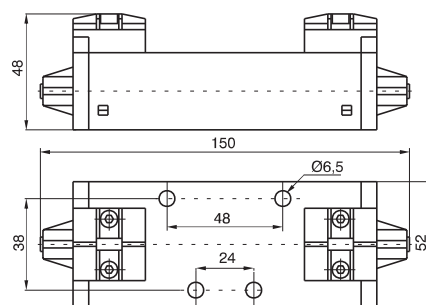
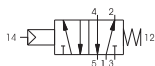
Pneumatic - Spring - 5/2

Ordering code

1012.52.1.9



Weight gr. 300
Minimum operating pressure 2,5 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

1600

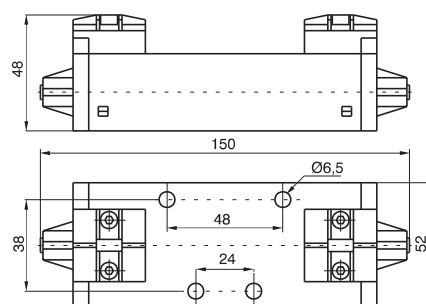
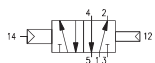
Pneumatic - Differential - 5/2

Ordering code

1012.52.1.6



Weight gr. 310
Minimum operating pressure 2 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

1600

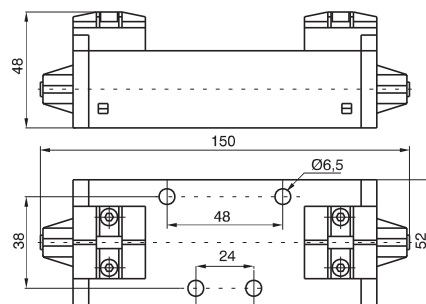
Pneumatic - Pneumatic - 5/2

Ordering code

1012.52.1.8



Weight gr. 310
Minimum operating pressure 1,5 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

1600

Pneumatic - Pneumatic - 5/3

Ordering code

1012.53.F.1.8

FUNCTION

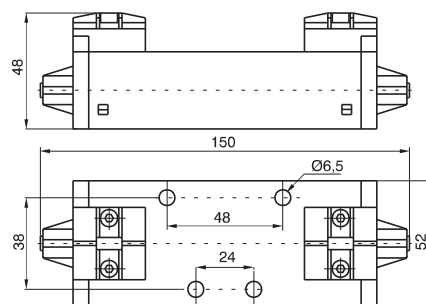
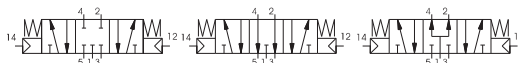
31=Closed centres

32=Open centres

33=Pressured centres



Weight gr. 310
Minimum operating pressure 3 bar



Operational characteristic

Fluid

Max working pressure (bar)

Temperature °C

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

Filtered and lubricated air

10

-5 - +50

1600



2

Solenoid - Spring - 5/2

Ordering code

1012.52.3.9.M

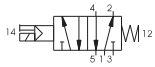

M

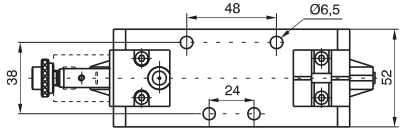
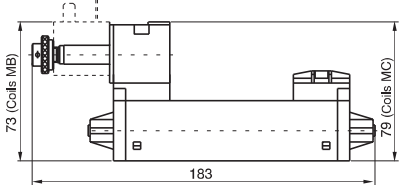
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 360

Minimum operating pressure 2,5 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	1600

Solenoid - Differential - 5/2

Ordering code

1012.52.3.6.M

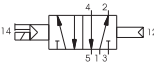

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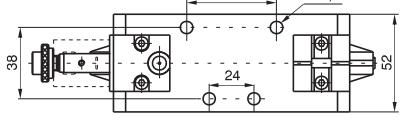
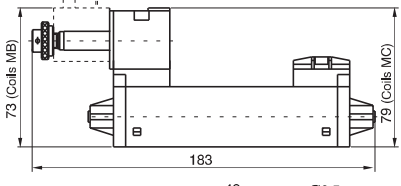
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 360

Minimum operating pressure 2 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	1600

Solenoid - Solenoid - 5/2

Ordering code

1012.52.3.5.M



M

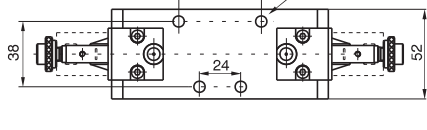
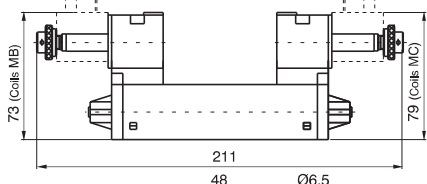
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 420

Minimum operating pressure 1,5 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	1600

Solenoid - Solenoid - 5/3

Ordering code

1012.53.F.3.5.M

F

FUNCTION

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



M

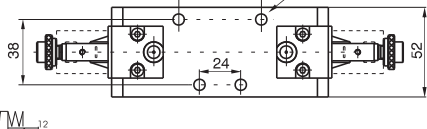
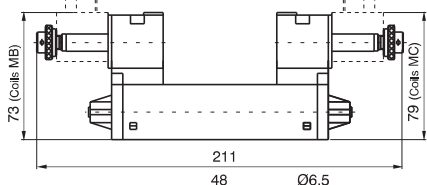
MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 420

Minimum operating pressure 3 bar





Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	1600

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2.122

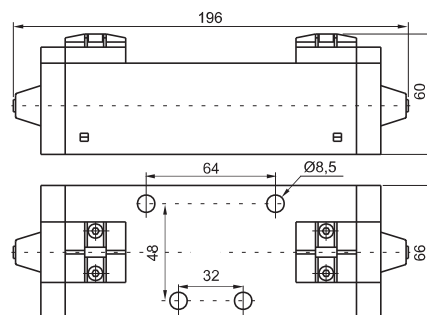
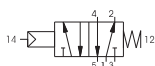
Pneumatic - Spring - 5/2

Ordering code

1013.52.1.9



Weight gr. 1000
Minimum operating pressure 2,5 bar



Operational characteristic

Fluid

Filtered and lubricated air

Max working pressure (bar)

10

Temperature °C

-5 - +50

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

3600

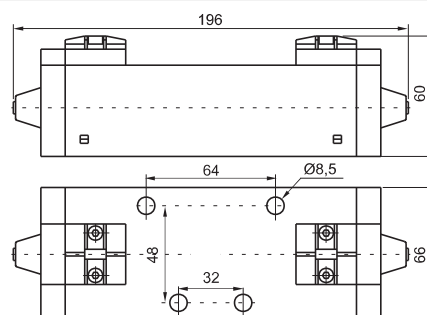
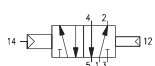
Pneumatic - Differential - 5/2

Ordering code

1013.52.1.6



Weight gr. 1020
Minimum operating pressure 2 bar



Operational characteristic

Fluid

Filtered and lubricated air

Max working pressure (bar)

10

Temperature °C

-5 - +50

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

3600

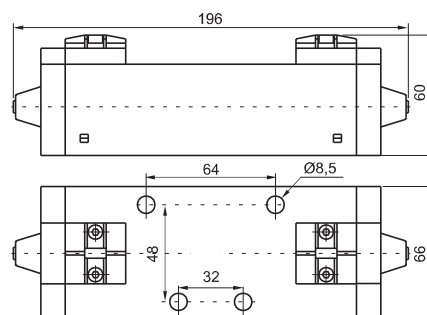
Pneumatic - Pneumatic - 5/2

Ordering code

1013.52.1.8



Weight gr. 1050
Minimum operating pressure 1,5 bar



Operational characteristic

Fluid

Filtered and lubricated air

Max working pressure (bar)

10

Temperature °C

-5 - +50

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

3600

Pneumatic - Pneumatic - 5/3

Ordering code

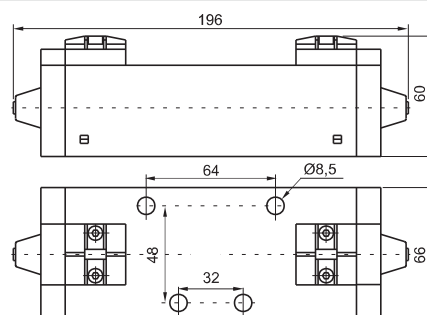
1013.53.F.1.8

FUNCTION

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



Weight gr. 1050
Minimum operating pressure 3 bar



Operational characteristic

Fluid

Filtered and lubricated air

Max working pressure (bar)

10

Temperature °C

-5 - +50

Flow rate at 6 bar with $\Delta p=1$ (NI/min)

3000



Solenoid - Spring - 5/2

Ordering code

1013.52.3.9.M

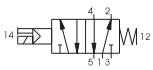

M

MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 1060

Minimum operating pressure 2,5 bar



85 (Coils MB)

213

91 (Coils MC)

64

Ø8,5

48

32

66

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	3600

Solenoid - Differential - 5/2

Ordering code

1013.52.3.6.M

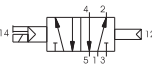

M

MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 1080

Minimum operating pressure 2 bar



85 (Coils MB)

213

91 (Coils MC)

64

Ø8,5

48

32

66

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	3600

Solenoid - Solenoid - 5/2

Ordering code

1013.52.3.5.M

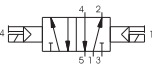

M

MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 1170

Minimum operating pressure 1,5 bar



85 (Coils MB)

230

91 (Coils MC)

64

Ø8,5

48

32

66

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	3600

Solenoid - Solenoid - 5/3

Ordering code

1013.53.F.3.5.M

F

FUNCTION

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



M

MECHANICAL CODE

See Valves Series 300 CNOMO

Weight gr. 1170

Minimum operating pressure 3 bar



85 (Coils MB)

230

91 (Coils MC)

64

Ø8,5

48

32

66

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)
	Filtered and lubricated air	10	-5 - +50	3000

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2.124