Series 1000 - Size 1, 2 & 3

General

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 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.

Coil are not included and have to be ordored separately (see Series 300).

"S" homologated 1 Nus 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 Serie 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 MAGNA GC 32 (Castrol).

Construction	characteristics
Construction	Characteristics

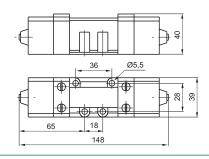
Series 1000	Size 1		Size 2
Body	Zinc alloy		Aluminium
Operators	Zinc alloy		Aluminium
Spools	Steel		Steel
Seals	NBR		NBR
Spacer	Technopolymer	Technopolymer	
Springs	Spring steel	Spring steel	
Selectors	NBR		NBR
Series 1010	Size 1	Size 2	Size 3
Body	Technopolymer	Technopolymer	Aluminium
Operators	Technopolymer	Technopolymer	Aluminium
Spools	Steel	Steel	Steel
Seals	NBR	NBR	NBR
Spacer	Technopolymer	Technopolymer	Technopolymer
Pistons	Aluminium	Aluminium	Aluminium
Springs	Spring steel	Spring steel	Spring steel



Pneumatic - Spring

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







1001.52.1.6

1001.52.1.9

Coding:

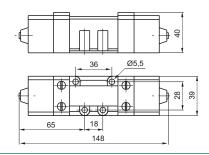
Coding:

Weight 780 g Minimum piloting pressure 2,5 bar

Pneumatic - Differential

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	







1001.52.1.8

Weight 790 g Minimum piloting pressure 2 bar

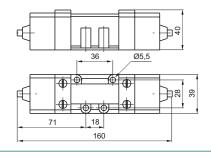
Coding:

Coding:

Pneumatic-Pneumatic 5/2

Operational characteristics	
Fluid Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	840







Weight 800 g Minimum piloting pressure 1,5 bar

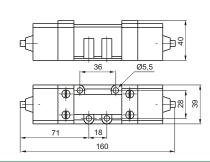
Pneumatic-Pneumatic 5/3

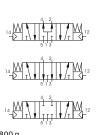
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with Δp=1 (NI/min)	720	



1001.53. 3.1.8







Weight 800 g Minimum piloting pressure 3 bar



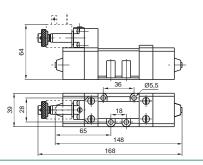
1051.52.3.9.M2

Coding:

Solenoid - Spring

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







1051.52.3.6.M2

Weight 890 g Minimum piloting pressure 2,5 bar

Coding:

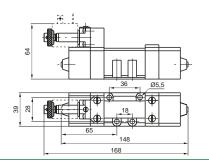
Coding:

Coding:

Solenoid-Differential

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 (NI/min)	840







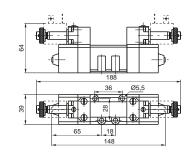
1051.52.3.5.M2

Weight 900 g Minimum piloting pressure 2 bar

Solenoid-Solenoid 5/2

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	840	





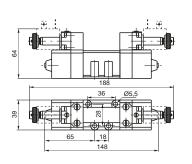


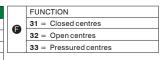
Weight 1040 g Minimum piloting pressure 1,5 bar

Solenoid-Solenoid 5/3

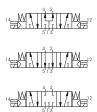
· ·		
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with An=1 (NI/min)	720	

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1051.53. **3**.3.5.M2



Weight 1040 g Minimum piloting pressure 3 bar

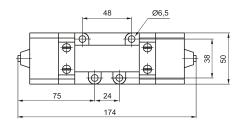


Pneumatic - Differential

Operational characteristics		
Fluid Filtered air. No lubrication needed, if applied it shall be continuous		
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with Δp=1 (NI/min)	1700	









1002.52.1.8

1002.52.1.6

Coding:

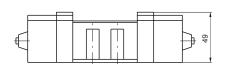
Weight 730 g Minimum piloting pressure 2 bar

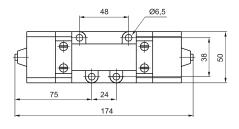
Coding:

Pneumatic-Pneumatic 5/2

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	1700









Weight 800 g Minimum piloting pressure 1,5 bar

Coding:

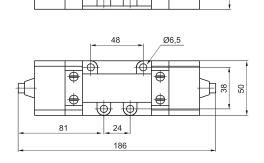
Pneumatic-Pneumatic 5/3

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	1700

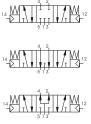
_		
		FUNCTION
1	_	31 = Closed centres
'	9	32 = Open centres
		33 = Pressured centres

1002.53. 3.1.8





\$



Weight 740 g Minimum piloting pressure 3 bar



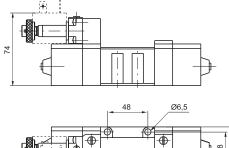
1052.52.3.6.M2

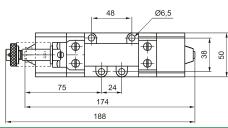
Coding:

Solenoid-Differential

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 (NI/min)	1700









1052.52.3.5.M2

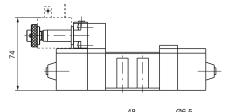
Weight 850 g Minimum piloting pressure 2 bar

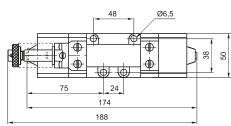
Coding:

Solenoid-Solenoid 5/2

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 (NI/min)	1700









Weight 980 g Minimum piloting pressure 1,5 bar

Coding:

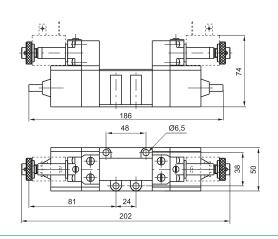
Solenoid-Solenoid 5/3

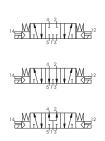
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1700

		FUNCTION
٦		31 = Closed centres
1	•	32 = Open centres
٦		33 = Pressured centres

1052.53.**3**.3.5.M2



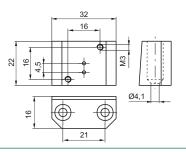




Weight 980 g Minimum piloting pressure 3 bar

Base for 32 mm Solenoid valve





1001.05 Coding:

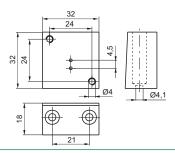
Weight 60 g

Coding:

1001.04

Base CNOMO for 32 mm Solenoid valve





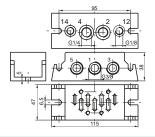
Weight 90 g

Coding:

Coding:

Base with bottom connections size 1





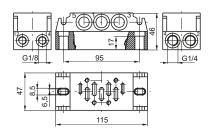
Weight 320 g 1=INLET PORT 2-4=OUTLET PORTS\$3-5=EXHAUST PORTS 12-14=PILOT PORTS

1001.01

1001.00

Base with side connections size 1





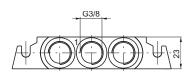
Weight 445 g 1=INLET PORT 2-4=OUTLET PORTS\$3-5=EXHAUST PORTS 12-14=PILOT PORTS

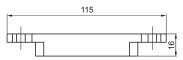
1001.02

1002.00

Inlet blocks







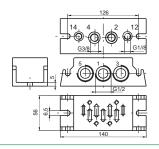
Weight 55 g

Coding:

Coding:

Base with bottom connections size 2





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

1 | 308

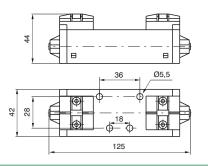
Series 1000 - Technopolymer valves 5/2 - 5/3 - Size 1



Pneumatic - Spring

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 (NI/min)	900







1011.52.1.6

1011.52.1.9

Coding:

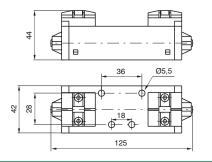
Coding:

Weight 230 g Minimum piloting pressure 2,5 bar

Pneumatic - Differential

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 (NI/min)	900







1011.52.1.8

Weight 240 g Minimum piloting pressure 2 bar

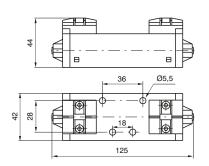
Coding:

Coding:

Pneumatic-Pneumatic 5/2

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 (NI/min)	900







Weight 240 g Minimum piloting pressure 1,5 bar

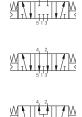
Pneumatic-Pneumatic 5/3

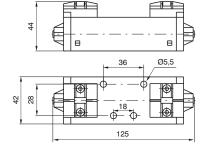
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	900

	FUNCTION
	31 = Closed centres
9	32 = Open centres
	33 = Pressured centres

1011.53. 3.1.8







Weight 240 g Minimum piloting pressure 3 bar

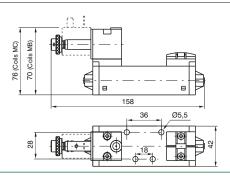
Solenoid - Spring

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 (NI/min)	900

1011.52.3.9. Coding:

MECHANICAL CODE SEE VALVES SERIES 300 CNOMO







Weight 290 g Minimum piloting pressure 2,5 bar

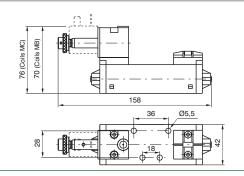
Solenoid-Differential

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

Coding: 1011.52.3.6.

MECHANICAL CODE SEE VALVES SERIES 300 CNOMO







Weight 290 g Minimum piloting pressure 2 bar

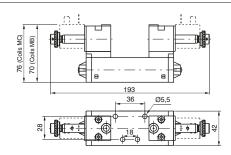
Solenoid-Solenoid 5/2

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	900

Coding: 1011.52.3.5.

MECHANICAL CODE SEE VALVES SERIES 300 CNOMO







Weight 350 g Minimum piloting pressure 1,5 bar

Coding:

Solenoid-Solenoid 5/3

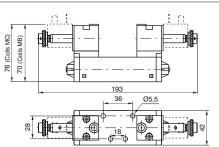
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	900

	FUNCTION
	31 = Closed centres
9	32 = Open centres
33 = Pressured centres	
M	MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO	

1011.53. 3.5.







9	32 = Open centres	
	33 = Pressured centres	
MECHANICAL CODE		
W	SEE VALVES SERIES 300 CNOMO	

Weight 350 g Minimum piloting pressure 3 bar

1012.52.1.9

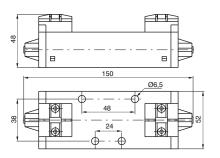
Coding:

Coding:

Pneumatic - Spring

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 (NI/min)	1600







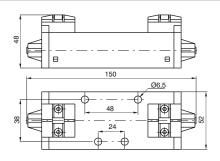
1012.52.1.6

Weight 300 g Minimum piloting pressure 2,5 bar

Pneumatic - Differential

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 (NI/min)	1600







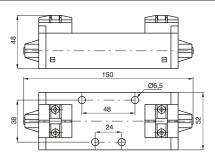
1012.52.1.8

Weight 310 g Minimum piloting pressure 2 bar

Pneumatic-Pneumatic 5/2

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 ∆p=1 (NI/min)	1600





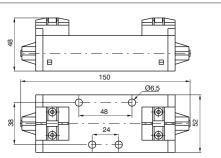


Weight 310 g Minimum piloting pressure 1,5 bar

Pneumatic-Pneumatic 5/3

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 piloting pressure 3 bar

1012.53. 3.1.8

PNEUMAX

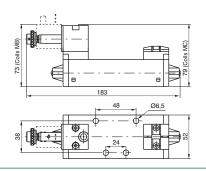
Solenoid - Spring

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 (NI/min)	1600

Coding: 1012.52.3.9.

MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO







Weight 360 g Minimum piloting pressure 2,5 bar

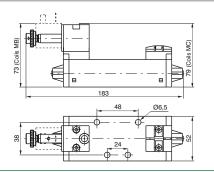
Solenoid-Differential

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

Coding: 1012.52.3.6.

MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO







Weight 360 g Minimum piloting pressure 2 bar

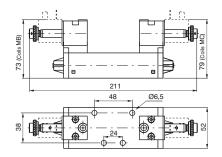
Solenoid-Differential

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 (NI/min)	1600	

Coding: 1012.52.3.5.

MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO







Weight 420 g Minimum piloting pressure 1,5 bar

Coding:

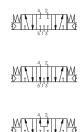
Solenoid-Solenoid 5/3

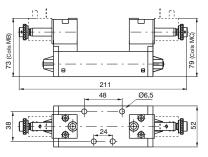
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1600	

	FUNCTION	
a	31 = Closed centres	
•	32 = Open centres	
	33 = Pressured centres	
M	MECHANICAL CODE	
W	SEE VALVES SERIES 300 CNOMO	

1012.53. 3.5.







Weight 420 g Minimum piloting pressure 3 bar

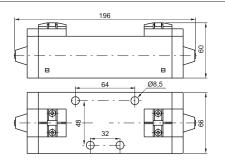
1012.53.**₽**.3.5.**∅**



Pneumatic - Spring

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 (NI/min)	3600	







1013.52.1.6

1013.52.1.9

Coding:

Weight 1000 g Minimum piloting pressure 2,5 bar

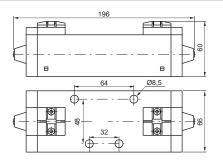
Coding:

Coding:

Pneumatic - Differential

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	







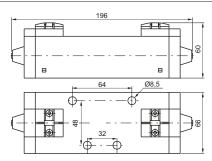
1013.52.1.8

Weight 1020 g Minimum piloting pressure 2 bar

Pneumatic-Pneumatic 5/2

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 (NI/min)	3600	





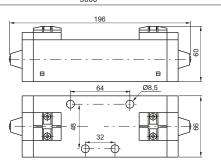


Weight 1050 g Minimum piloting pressure 1,5 bar

Pneumatic-Pneumatic 5/3

Pneumatic-Pneumatic 5/3		Cod	ing:
	Operational characteristics		FUN
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		31 =
Max working pressure (bar)	10		32 =
Temperature °C	-5 ÷ +50		33 =
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3000		







1013.53. 3.1.8







Weight 1050 g Minimum piloting pressure 3 bar

1013.53.



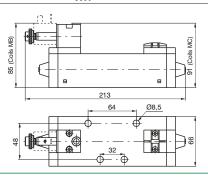
Solenoid - Spring

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 (NI/min)	3600	

Coding: 1013.52.3.9.**∅**

MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO







Weight 1060 g Minimum piloting pressure 2,5 bar

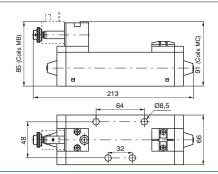
Solenoid-Differential

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 ∆p=1 (NI/min)	3600	

Coding: 1013.52.3.6.

MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO







Weight 1080 g Minimum piloting pressure 2 bar

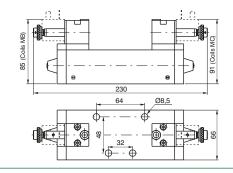
Solenoid-Solenoid 5/2

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	3600	

Coding: 1013.52.3.5.

MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO







Weight 1170 g Minimum piloting pressure 1,5 bar

Coding:

Solenoid-Solenoid 5/3

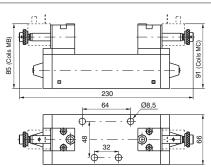
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	3000	

FUNCTION 31 = Closed centres 32 = Open centres 33 = Pressured centres MECHANICAL CODE
32 = Open centres 33 = Pressured centres
32 = Open centres 33 = Pressured centres
- MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO

1013.53. 3.5.









Weight 1170 g Minimum piloting pressure 3 bar

1013.53.**₽**.3.5.**∅**



Series 1100 - Modular bases with side and bottom connections

General

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:

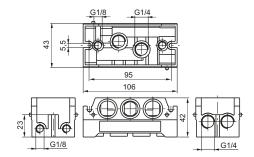
1101.17 (size 1) - 1102.17 (size 2) - 1103.17 (size 3)





Weight 240 g

1101.00



1100.00 Coding:

Coding:

Coding:

1101.09

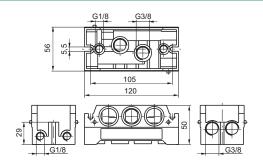
1103.11

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

AIR DISTRIBUTION
Meight340 8

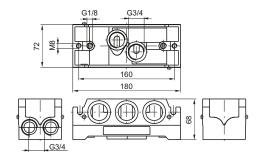


1102.00



Weight 950 g

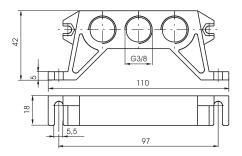
1103.00



Inlet blocks, Size 1



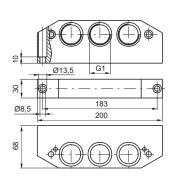
Weight 100 g



Inlet blocks, Size 3



Weight 840 g



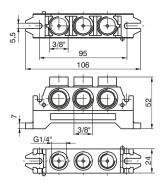
1 | 316

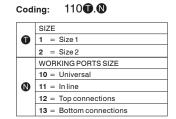




Weight 160 g

1101.

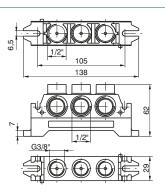




1335

Weight 230 g

1102.

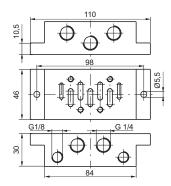


Single use bases



Weight 160 g

1101.14



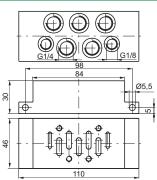
1100.6 Coding:

	SIZE
	1 = Size 1
0	2 = Size 2
	3 = Size 3
	SHAPE
•	14 = Shape A
	15 = Shane B (only for sizes 1 & 2)

10,0000

Weight 190 g

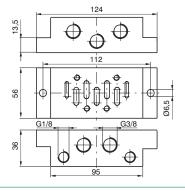
1101.15





Weight 190 g

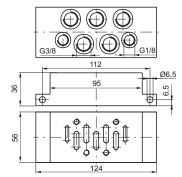
1102.14





Weight 220 g

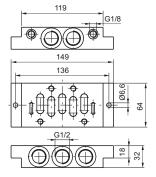
1102.15





Weight 600 g

1103.14



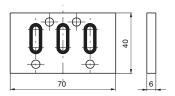
ISO 5599-1 valves and solenoid valves Series 1100 - Closing plate / Base adaptor



Closing plate



1101.16

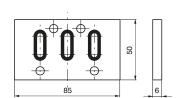


Coding:	1100.16
Coding:	1100.

Γ	0	SIZE
		1 = Size 1
		2 = Size 2
		3 = Size 3

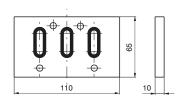


1102.16





1103.16

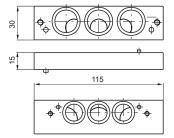


Base adaptor



Weight 110 g

1100.2-1



Coding: 1100.

	SIZE
0	2 = Sizes 2-1
	3 = Sizes 3-2



Weight 590 g

1100.3-2

