Coding:

Solenoid - Solenoid 5 ways 3 connections (Self-feeding)

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	410	
Orifice size (mm)	6	
Working ports size	G 1/8"	
Responce time according to ISO 12238, activation time (ms)	21,3 (closed centres) 21,5 (open centres) 19,5 (pressured centres)	
Responce time according to ISO 12238, deactivation time (ms)	37,0 (closed centres) 34,5 (open centres) 37,3 (pressured centres)	

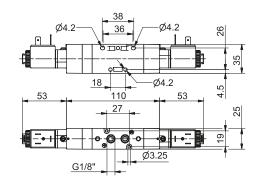
Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001

FUNCTION 31 = Closed centres 0 32 = Open centres 33 = Pressured centres VOLTAGE M9 = Solenoid - Spring (Self-feeding) M11 = 24V D.C. (rating power 3,8W) V M56 = 24V 50/60Hz (starting power 9VA, rating power 6VA) M57 = 110 V 50/60Hz (starting power 9VA, rating power 6VA) 230V 50/60Hz (starting M58 = power 9VA, rating power 6VA)

T488.53.**€**.0.0.**∅**

Minimum working pressure 3 bar Weight 330 g





T488.53.31.0.0.

T488.53.32.0.0.

T488.53.33.0.0.







Solenoid - Solenoid 5/3 (External-feeding)

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)	410	
Orifice size (mm)	6	
Working ports size	G 1/8"	
Responce time according to ISO 12238, activation time (ms)	21,3 (closed centres) 21,5 (open centres) 19,5 (pressured centres)	
Responce time according to ISO 12238, deactivation time (ms)	37,0 (closed centres) 34,5 (open centres) 37,3 (pressured centres)	

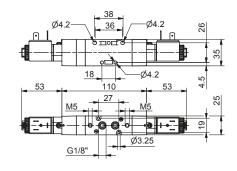
 $Shifting\ time\ of\ pneumatic\ directional\ control\ valves\ or\ moving\ parts, logic\ devices\ were\ measured\ in\ accordance\ to\ ISO\ 12238:2001$

Coding: T488.53.**●**.0E.**♥**

	•		
_	FUNG	CTION	
	31 =	Closed	centres
U	32 =	Open c	entres
	33 =	Pressur	ed centres
VOLTAGE			
	М9	=	Solenoid - Spring
	(Self-	feeding)	
	M11	=	24V D.C. (rating power
	3,8W)	
V	M56	=	24V 50/60Hz (starting
	powe	er 9VA, ra	ting power 6VA)
	M57	=	110 V 50/60Hz (starting
	power 9VA, rating power 6VA)		
	M58	=	230V 50/60Hz (starting
	powe	er 9VA, ra	iting power 6VA)
Minimum working property 2 hor			

Minimum working pressure 3 bar Weight 330 g





T488.53.31.0.0E. **♥**

14 7 1 12 12

T488.53.32.0.0E.



T488.53.33.0.0E.♥



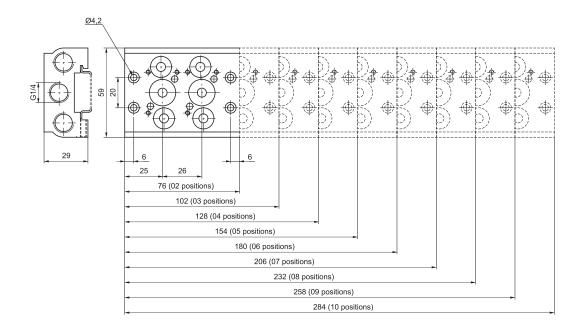


Collectors



Coding: T488.

	N. POSITIONS
	02 = 2 positions (220 g)
	03 = 3 positions (290 g)
	04 = 4 positions (360 g)
	05 = 5 positions (430 g)
(2)	06 = 6 positions (500 g)
	07 = 7 positions (570 g)
	08 = 8 positions (640 g)
	09 = 9 positions (710 g)
	10 = 10 positions (780 g)
	•



Modular base



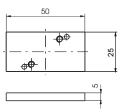
Coding: T488.

	TYPE		
	01 = Single complete base		
	01K = Complete modular bases		
	(batches of 20 pieces)		
	30K = Hollow bush, complete with		
	O-rings (Nr. 50 pieces)		
	31K = Blank bush, complete with		
	O-rings (Nr. 50 pieces)		
•	32K = Intermediate air intake with		
	screw (Nr. 5 pieces)		
	33 = Screw to suite solenoid valves (Nr. 50		
	pieces)		
	34 = Screw for joning bases (Nr. 50		
	pieces)		
	35 = Washer for screw for joning bases		
	(Nr. 50 pieces)		
	36 = OR (50 pz)		

Closing plate



Coding: T488.00

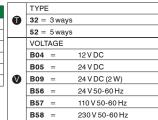


weight 25

Coding:

Solenoid - Spring (Self-feeding)

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)	1050	
Orifice size (mm)	8.5	
Working ports size	G 1/4"	



T424.**①**.0.1.**⊘**



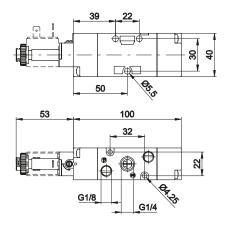
Weight 205 g Minimum piloting pressure 2,5 bar

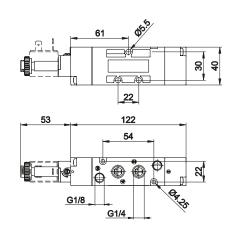
T424.32.0.1.



Weight 235 g Minimum piloting pressure 2,5 bar

T424.52.0.1.♥









Coding:

B58

T424. **1**.0.1. E. **V**

230 V 50-60 Hz

Solenoid - Spring (External-feeding)

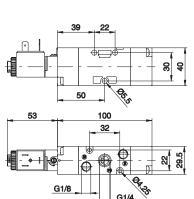
Operational characteristics		
Fluid Filtered air. No lubrication needed, if applied it shall be continuou:		
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	1050	
Orifice size (mm)	8.5	
Working ports size	G 1/4"	
Pilot ports size	G 1/8"	

l	0	TYPE		
١		32 = 3 wa	ys	
ł		52 = 5 wa	ys	
VOLTAGE				
B04 = 12 V DC		12 V DC		
1		B05 =	24 V DC	
l	V	B09 =	24 V DC (2 W)	
1		B56 =	24 V 50-60 Hz	
,		B57 =	110 V 50-60 Hz	



Weight 205 g Minimum piloting pressure 2,5 bar

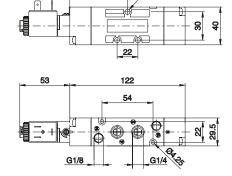
T424.32.0.1.E.





Weight 235 g Minimum piloting pressure 2,5 bar

T424.52.0.1.E.**♥**

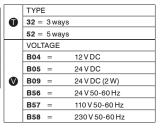






Solenoid - Differential (Self-feeding)

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1050	
Orifice size (mm)	8.5	
Working ports size	G 1/4"	



T424.**1**.0.12.**◊**

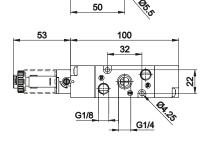
Coding:



Weight 205 g Minimum piloting pressure 2 bar

T424.32.0.12.

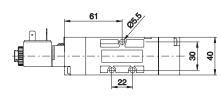


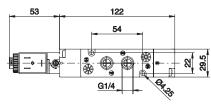




Weight 235 g Minimum piloting pressure 2 bar

T424.52.0.12.♥









T424. **1**.0.12. E. **V**

Solenoid - Differential (External-feeding)

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1050	
Orifice size (mm)	8.5	
Working ports size	G 1/4"	
Pilot ports size	G 1/8"	

		TYPE
	O	32 = 3 ways
\dashv	-	52 = 5 ways

Coding:

	TYPE		
O	32 =	3 ways	
	52 =	5 ways	
	VOLT	AGE	
	B04	=	12 V DC
	B05	=	24 V DC
V	B09	=	24 V DC (2 W)
	B56	=	24 V 50-60 Hz
	B57	=	110 V 50-60 Hz
	B58	=	230 V 50-60 Hz



Weight 205 g Minimum piloting pressure 2 bar

T424.32.0.12.E.

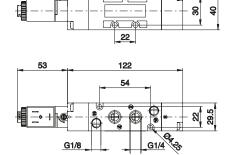
50 100 32



Weight 235 g Minimum piloting pressure 2 bar

T424.52.0.12.E.

Ø5.5







Solenoid - Solenoid (Self-feeding)

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"

Coding:		ing:	1424.0.0.0.
		TYPE	

	TYPE		
0	32 =	3 ways	
	52 =	5 ways	
	VOLT	AGE	
	B04	=	12 V DC
	B05	=	24 V DC
V	B09	=	24 V DC (2 W)
	B56	=	24 V 50-60 Hz
	B57	=	110 V 50-60 Hz
	B58	=	230 V 50-60 Hz



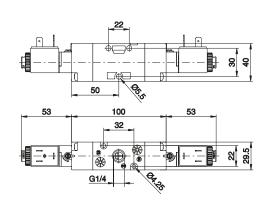
Weight 240 g Minimum piloting pressure 2 bar

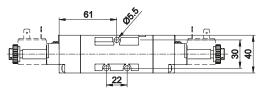
T424.32.0.0.

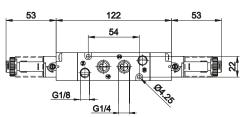


Weight 270 g Minimum piloting pressure 2 bar

T424.52.0.0.











Solenoid - Solenoid (External-feeding)

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)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"
Pilot ports size	G 1/8"

Coding:	1424. U .U.U.E. W	

	TYPE		
0	32 =	3 ways	
	52 =	5 ways	
	VOLT	AGE	
	B04	=	12 V DC
	B05	=	24 V DC
V	B09	=	24 V DC (2 W)
	B56	=	24 V 50-60 Hz
	B57	=	110 V 50-60 Hz
	B58	=	230 V 50-60 Hz

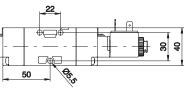


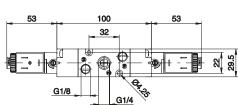
Weight 240 g Minimum piloting pressure 2 bar



Weight 270 g Minimum piloting pressure 2 bar

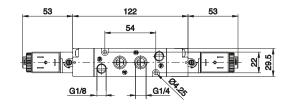
T424.32.0.0.E.▼

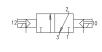




61 8 9

T424.52.0.0.E.**Ø**









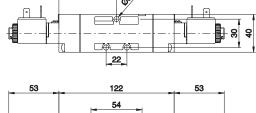
Solenoid - Solenoid (Self-feeding)

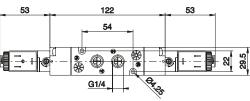
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	900
Orifice size (mm)	8.5
Working ports size	G 1/4"

Coding: T424.53.**●**.0.0.**♥**

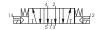
	FUNCTION	
_	31 = Closed centres	
•	32 = Open centres	
	33 = Press	ured centres
	VOLTAGE	
	B04 =	12 V DC
	B05 =	24 V DC
V	B09 =	24 V DC (2 W)
	B56 =	24 V 50-60 Hz
	B57 =	110 V 50-60 Hz
	B58 =	230 V 50-60 Hz













Weight 295 g Minimum piloting pressure 3 bar

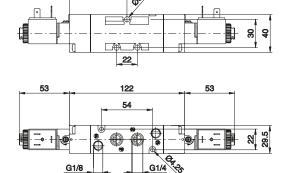
Solenoid - Solenoid (External-feeding)

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
Orifice size (mm)	8.5
Working ports size	G 1/4"
Pilot ports size	G 1/8"

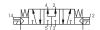
Coding: T424.53.**⊜**.0.0.E.

FUN	CTION	
31 =	Closed	centres
32 =	Openc	entres
33 =	Pressu	red centres
VOLT	AGE	
B04	=	12 V DC
B05	=	24 V DC
B09	=	24 V DC (2 W)
B56	=	24 V 50-60 Hz
B57	=	110 V 50-60 Hz
B58	=	230 V 50-60 Hz
	31 = 32 = 33 = VOLT B04 B05 B09 B56 B57	B57 =





14 2 12



Weight 295 g Minimum piloting pressure 3 bar

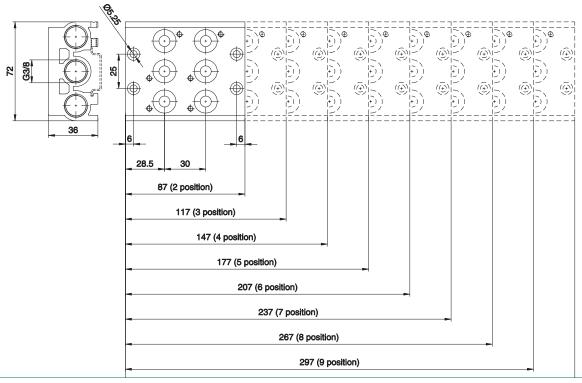
Spool valves and solenoid valves Series T400 - Accessories





Coding:	T424.
---------	-------

	N. POSITIONS
	02 = 2 positions (weight 350 g)
	03 = 3 positions (weight 420 g)
	04 = 4 positions (weight 560 g)
	05 = 5 positions (weight 670 g)
0	06 = 6 positions (weight 770 g)
	07 = 7 positions (weight 880 g)
	08 = 8 positions (weight 980 g)
	09 = 9 positions (weight 1090 g)
	10 = 10 positions (weight 1200 g)



Modular collectors

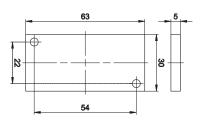


Codi	ng: T424. ①			
	TYPE			
	01 = Single complete base			
	01K = Complete modular bases			
	(batches of 15 pieces)			
	30K = Hollow bush, complete with			
	O-rings (Nr. 50 pieces)			
	31K = Blank bush, complete with			
	O-rings (Nr. 50 pieces)			
•	32K = Intermediate air intake with			
	screw (Nr. 5 pieces)			
	33 = Screw to suite solenoid valves (Nr. 50			
	pieces)			
	34 = Screw for joning bases (Nr. 50			
	pieces)			
	35 = Washer for screw for joning bases			
	(Nr. 50 pieces)			
	36 = OR (50 pz)			

Closing plate



T424.00 Coding:



Weight 25 g

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 this 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).

Cons	truc	tion c	harac	teristics

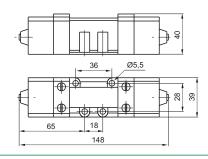
Series 1000	Size 1 Size 2		Size 2	
Body	Zinc alloy		Aluminium	
Operators	Zinc alloy	Zinc alloy		
Spools	Steel		Steel	
Seals	NBR		NBR	
Spacer	Technopolyme	r	Aluminium	
Springs	Spring steel		Spring steel	
Selectors	NBR		NBR	
Series 1010	Size 1	Size 2	Size 3	
Body	Technopolymer	Technopolymer	Aluminium	
Operators	Technopolymer	Technopolymer	Aluminium	
Spools	Steel	Steel	Steel	
Seals	NBR	NBR	NBR	
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 Δp=1 (NI/min)	840	







1001.52.1.6

1001.52.1.9

Coding:

Coding:

Coding:

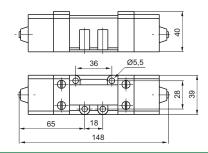
Coding:

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	







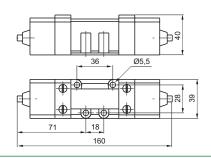
1001.52.1.8

Weight 790 g Minimum piloting pressure 2 bar

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

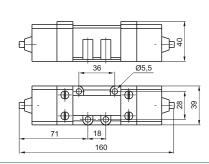
Pneumatic-Pneumatic 5/3

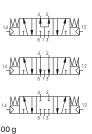
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with Δp=1 (NI/min)	720	



1001.53. 3.1.8







Weight 800 g Minimum piloting pressure 3 bar

1051.52.3.9.M2

Coding:

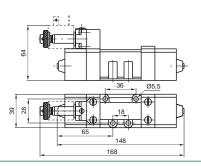
Coding:

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	







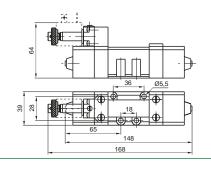
1051.52.3.6.M2

Weight 890 g Minimum piloting pressure 2,5 bar

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	







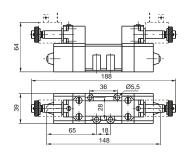
1051.52.3.5.M2

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	





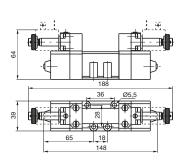


Weight 1040 g Minimum piloting pressure 1,5 bar

Solenoid-Solenoid 5/3

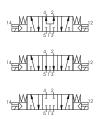
· ·		
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Temperature °C	-5 ÷ +50	
Flow rate at 6 har with Δn=1 (NI/min)	720	





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

1051.53.**@**.3.5.M2

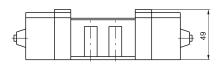


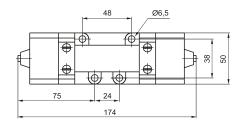
Weight 1040 g Minimum piloting pressure 3 bar

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:

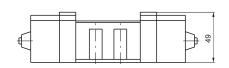
Weight 730 g Minimum piloting pressure 2 bar

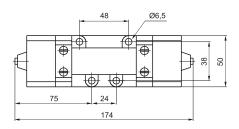
Coding:

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:

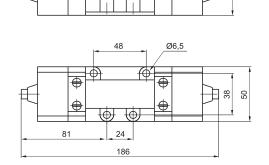
Pneumatic-Pneumatic 5/3

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

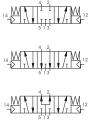
FUNCTION
31 = Closed centres
32 = Open centres
33 = Pressured centres

1002.53. 3.1.8





\$



Weight 740 g Minimum piloting pressure 3 bar



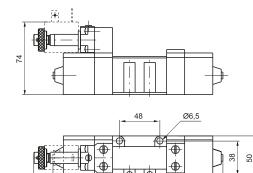
1052.52.3.6.M2

Coding:

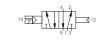
Solenoid-Differential

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 har with An-1 (NI/min)	1700





174 188



1052.52.3.5.M2

Weight 850 g Minimum piloting pressure 2 bar

Coding:

Solenoid-Solenoid 5/2

 Operational characteristics

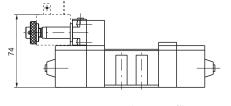
 Fluid
 Filtered air. No lubrication needed, if applied it shall be continuous

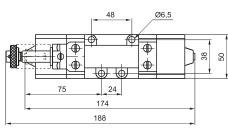
 Max working pressure (bar)
 10

 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:

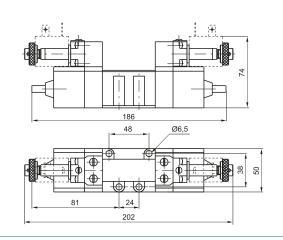
Solenoid-Solenoid 5/3

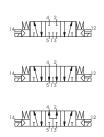
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1700

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

1052.53. **3**.5.M2





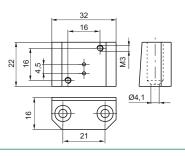


Weight 980 g Minimum piloting pressure 3 bar



Base for 32 mm Solenoid valve





Coding: 1001.05

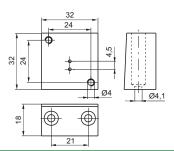
Weight 60 g

Coding:

1001.04

Base CNOMO for 32 mm Solenoid valve





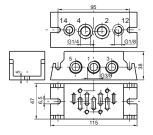
Weight 90 g

Coding:

Coding:

Base with bottom connections size 1





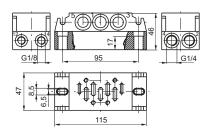
Weight 320 g 1=INLET PORT 2-4=OUTLET PORTS\$3-5=EXHAUST PORTS 12-14=PILOT PORTS

1001.01

1001.00

Base with side connections size 1



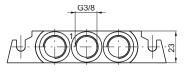


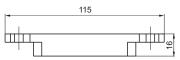
Weight 445 g 1=INLET PORT 2-4=OUTLET PORTS\$3-5=EXHAUST PORTS 12-14=PILOT PORTS

1001.02

Inlet blocks







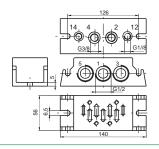
Weight 55 g

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

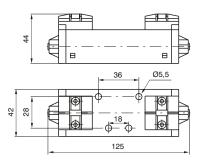
1002.00



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:

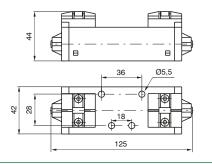
Weight 230 g Minimum piloting pressure 2,5 bar

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 Δp=1 (NI/min)	900







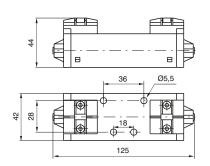
1011.52.1.8

Weight 240 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)	900







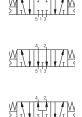
Weight 240 g Minimum piloting pressure 1,5 bar

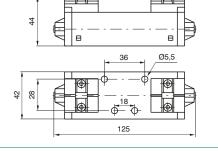
Pneumatic-Pneumatic 5/3

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

Cod	ing: 1011.53. () .1.8	
	FUNCTION	
31 = Closed centres		
•	32 = Open centres	
	33 = Pressured centres	







Weight 240 g Minimum piloting pressure 3 bar



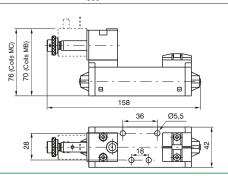
Solenoid - Spring

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

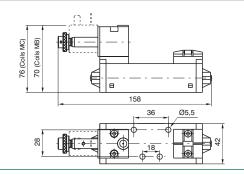
Solenoid-Differential

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 Δp=1 (NI/min)	900

Coding: 1011.52.3.6.

MECHANICAL CODE SEE VALVES SERIES 300 CNOMO







Weight 290 g Minimum piloting pressure 2 bar

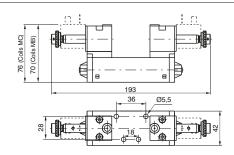
Solenoid-Solenoid 5/2

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

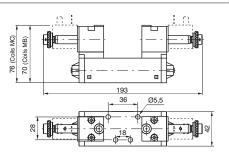
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	900

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

1011.53. 3.5.







11	(3)	31 = Closed centres	
ĺ	G	32 = Open centres	
		33 = Pressured centres	
MECHANICAL CODE SEE VALVES SERIES 300 CNO			
		SEE VALVES SERIES 300 CNOMO	

Weight 350 g Minimum piloting pressure 3 bar

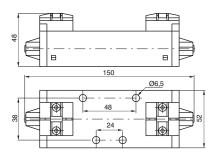
$ISO\ 5599-1\ valves\ and\ solenoid\ valves$ Series 1000 - Technopolymer valves 5/2 - 5/3 - Size 2



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







1012.52.1.6

1012.52.1.9

Coding:

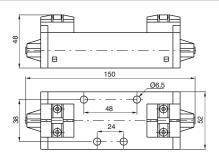
Weight 300 g Minimum piloting pressure 2,5 bar

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 Δp=1 (NI/min)	1600







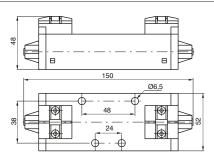
1012.52.1.8

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 Δp=1 (NI/min)	1600





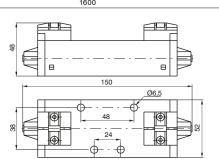


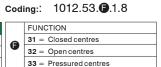
Weight 310 g Minimum piloting pressure 1,5 bar

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 Δp=1 (NI/min)	1600







14 12 12 12





Weight 310 g Minimum piloting pressure 3 bar

1012.53. 3.1.8



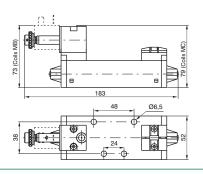
Solenoid - Spring

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 ∆p=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

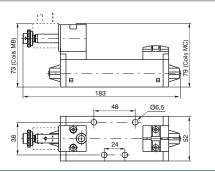
Solenoid-Differential

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

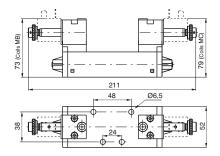
Solenoid-Differential

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







1012.53. 3.5.

Weight 420 g Minimum piloting pressure 1,5 bar

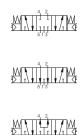
Solenoid-Solenoid 5/3

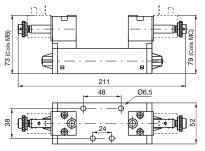
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1600

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

Coding:







Weight 420 g Minimum piloting pressure 3 bar

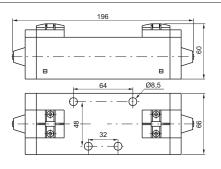
1012.53.**₽**.3.5.**∅**



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







1013.52.1.6

1013.52.1.9

Coding:

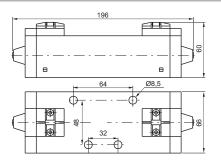
Weight 1000 g Minimum piloting pressure 2,5 bar

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







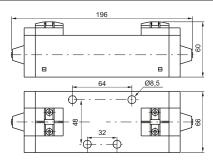
1013.52.1.8

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







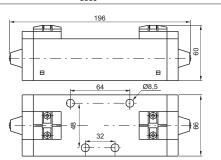
Weight 1050 g Minimum piloting pressure 1,5 bar

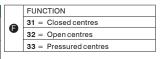
Coding:

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 ÷ +50
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.



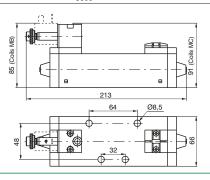
Solenoid - Spring

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

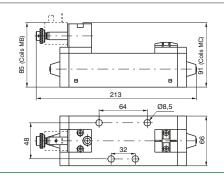
Solenoid-Differential

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 Δp=1 (NI/min)	3600

Coding: 1013.52.3.6.

MECHANICAL CODE
SEE VALVES SERIES 300 CNOMO







Weight 1080 g Minimum piloting pressure 2 bar

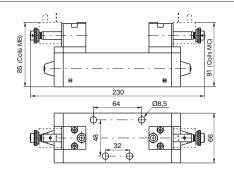
Solenoid-Solenoid 5/2

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:

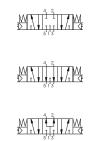
Solenoid-Solenoid 5/3

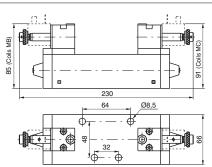
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	3000

•	31 = Closed centres
(3)	32 = Open centres
	33 = Pressured centres
M	MECHANICAL CODE
W	SEE VALVES SERIES 300 CNOMO

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:

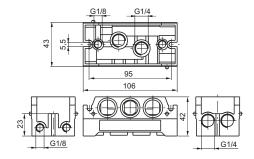
1101.17 (size 1) - 1102.17 (size 2) - 1103.17 (size 3)





Weight 240 g

1101.00



Coding: 110**1**.00

Coding:

Coding:

1101.09

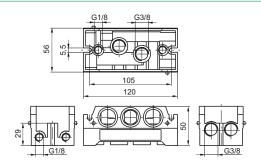
1103.11

	SIZE
_	1 = Size 1
U	2 = Size 2
	3 = Size 3

Weight 340 g

AIR DISTRIBUTION

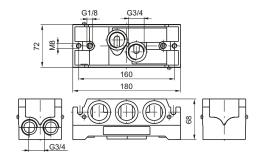
1102.00





Weight 950 g

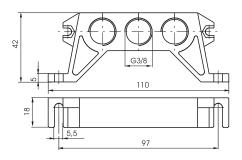
1103.00



Inlet blocks, Size 1

1000

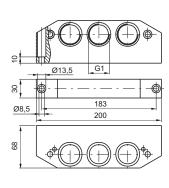
Weight 100 g



Inlet blocks, Size 3

000

Weight 840 g



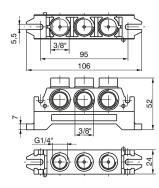
1 | 316





Weight 160 g

1101.

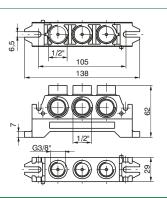


Coding: 110 ⊕ . ◊			
	SIZE		
0	1 = Size 1		
	2 = Size 2		
	WORKING PORTS SIZE		
	10 = Universal		
0	11 = Inline		
	12 = Top connections		
	13 = Bottom connections		



Weight 230 g

1102.

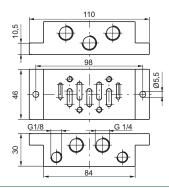


Single use bases



Weight 160 g

1101.14



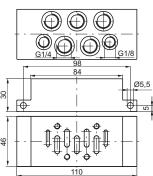
1100.6 Coding:

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



Weight 190 g

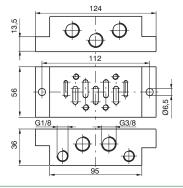
1101.15





Weight 190 g

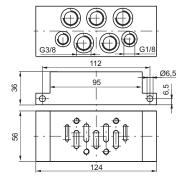
1102.14





Weight 220 g

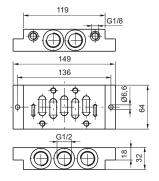
1102.15





Weight 600 g

1103.14



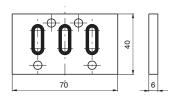
ISO 5599-1 valves and solenoid valves Series 1100 - Closing plate / Base adaptor



Closing plate



1101.16

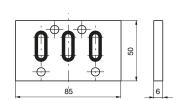


Coding: 110**1**.16

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

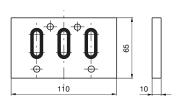


1102.16





1103.16

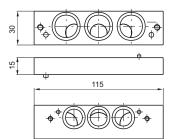


Base adaptor



Weight 110 g

1100.2-1



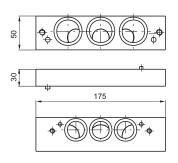
Coding: 1100.

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



Weight 590 g

1100.3-2





Series 1000 M12 - Size 1, 2 & 3

General

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.

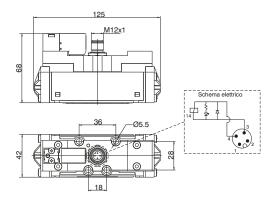
All version are supplied with LED indicators

"Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001, Pneumatic fluid power-Directional control valves-Measurement of shifting time"

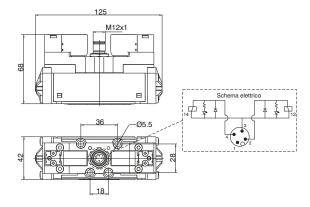
Electrical characteristics

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

Monostable version



Bistable version



Solenoid - Spring

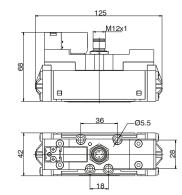
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2.5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	900	
Responce time according to ISO 12238, activation time (ms)	16	
Responce time according to ISO 12238, deactivation time (ms)	122	

Coding: 1111.52.3.9. COIL VOLTAGE 12P = 24VDC

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









1111.52.3.6.

24VDC

Coding:

Coding:

COIL VOLTAGE

12P =

0 12P

COIL VOLTAGE

Solenoid-Differential

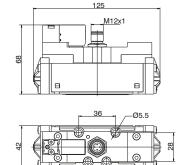
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	900	
Responce time according to ISO 12238, activation time (ms)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

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





Weight 356 g





1111.52.3.5.

24VDC

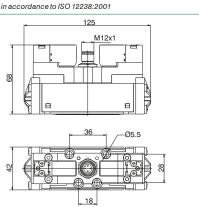
Solenoid-Solenoid 5/2

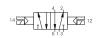
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	1.5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	900	
Responce time according to ISO 12238, activation time (ms)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

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



Weight 390 g







Solenoid-Solenoid 5/3

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

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

FUNCTION

31 = Closed centres

32 = Open centres

33 = Pressured centres

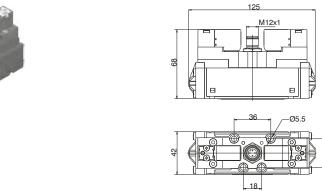
COIL VOLTAGE

12P = 24VDC

Coding:

1111.53. 3.5.





14 2 12 12

14 W 1 1 1 1 1 2 1 2

Weight 392 g

Solenoid - Spring

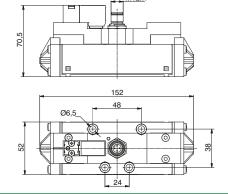
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2.5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	1600	
Responce time according to ISO 12238, activation time (ms)	24	
Responce time according to ISO 12238, deactivation time (ms)	124	

COILVOLTAGE 12P = 24VDC

Coding: 1112.52.3.9.

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







Weight 510 g

Solenoid-Differential

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

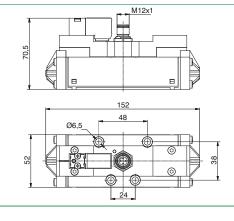
1112.52.3.6. Coding:

> COIL VOLTAGE 12P = 24VDC

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



Weight 515 g





1112.52.3.5.

24VDC

Coding:

• 12P =

COIL VOLTAGE

Solenoid-Solenoid 5/2

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

Shifting time of pneumatic directional control valves or moving parts, logic devices were m



Weig	iht 5	550	а

measured in accordance to ISO 12238:2001		
M12x1		
153 48 06,5 8		





Solenoid-Solenoid 5/3

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

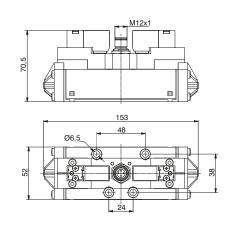
 $Shifting\ time\ of\ pneumatic\ directional\ control\ valves\ or\ moving\ parts, logic\ devices\ were\ measured\ in\ accordance\ to\ ISO\ 12238:2001$

1112.53. 3.5. Coding:

FUNCTION	
	31 = Closed centres
9	32 = Open centres
33	33 = Pressured centres
COIL VOLTAGE	
U	12P = 24VDC













Solenoid - Spring

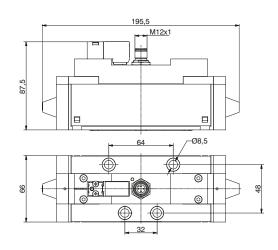
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2.5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	3600	
Responce time according to ISO 12238, activation time (ms)	46	
Responce time according to ISO 12238, deactivation time (ms)	254	

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

COILVOLTAGE 12P = 24VDC

Coding: 1113.52.3.9.





Weight 1360 g



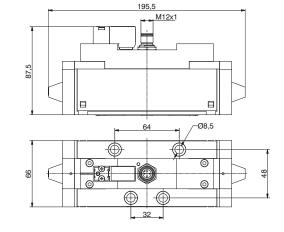
Solenoid-Differential

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

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







Weight 1360 g





Solenoid-Solenoid 5/2

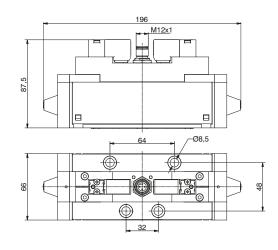
Operational characteristics			
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		
Max working pressure (bar)	10		
Minimum piloting pressure (bar)	1.5		
Temperature °C	-5 ÷ +50		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	3600		
Responce time according to ISO 12238, activation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

Coding: 1113.52.3.5. COIL VOLTAGE

12P =

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





Weight 1370 g



1113.53. 3.5.

24VDC

Solenoid-Solenoid 5/3

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

12P = 24

Coding:

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



Weight 1380 g

