

General


These are 2 stage valves actuated electro-pneumatically. A serie 300 directly operated solenoid valve actuates pneumatically the principal power distributor. This integrated system allows configurations of systems requiring very little space. The pilot air is normally taken from the inlet port (autofeed) and the only actuating signal is electric. The range of the solenoid valves, as far as dimensions and mechanical construction, is similar to series 200. We have therefore solenoid valves G 1/8", G 1/4", G 1/2" and G 1" with identical pneumatic characteristics that are, however, actuated electrically. They have a balanced spool, insensitive to presence or absence of pressure. They are constructed in 3 and 5 way with 1 solenoid (monostable) or 2 solenoids (bistable) and also 5 ways 3 positions with closed centres, open centres and pressured centres.

It should be noted that the autofeed of the electric pilot requires always inlet through port 1 and if a 3 ways normally open configuration is desired, it is necessary to switch the operators.

In the tables showing individual valves, the quick reference tables show the output in NI/min at a inlet pressure of 6 bar and a pressure drop of 1 bar. All information was obtained using standards CETOP RP 50P.

Solenoid valves G 1/8" and G 1/4" can be equipped with microsolenoids as well as standard solenoids and they can be mounted in line or in 90 degrees on distributors. Please note that while the microsolenoid can be mounted in any direction, standard solenoid requires mounting as indicated in the photographs and diagrams.

The order codes pertain only to the solenoid valve with mechanical actuator "M2" or solenoid "S*" already assembled (see Series 300, section 1). (M2 coils are not included and have to be ordered separately).

Coils for M2 and solenoids "S"  homologated are available (see Series 300).

The polyurethane seals are available for oil free operation. In this case, the ordering code becomes:

438...S5 and 478...M2 become G 1/8" - 434...S5 and 474...M2 become G 1/4" - 432...S5 becomes G 1/2"

Important: on this type of valves a temperature higher than 40°C along with water or high humidity are causing a progressive reduction of mechanical characteristics of the seals. This chemical reaction (hydrolysis) duration depends by the ambient temperature and in some cases the seal becomes brittle and falls to pieces.

The valves equipped with polyurethane seals are not suitable for tropical climate.

Construction characteristics

Body	Aluminium
Operators	Aluminium Technopolymer for spring bottom plate G 1/8", G 1/4", G 1/2" and aluminium for G 1"
Spools	Stainless steel / Technopolymer fpt Series T488
Seals	NBR Polyurethane compound for oil free applications G 1/8", G 1/4" and G 1/2"
Spacers	Technopolymer (aluminium for G1")
Spring	Stainless steel or spring steel

Use and maintenance

These valves have an average life of 15 million cycles depending on the application and air quality, filtered and lubricated air using specified lubricants will dramatically reduce the wear of the seals and ensures long and trouble free operation.

Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature and that exhaust ports 3 & 5 are protected against the possible ingress of dirt or debris.

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).

2

Solenoid - Spring	3/2	Ordering code 468.1.0.1.M2	5/2	Solenoid - Spring			
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>TYPE</td></tr> <tr><td>32 = 3 ways</td></tr> <tr><td>52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
			TYPE				
32 = 3 ways							
52 = 5 ways							
<p>Weight gr. 240 Minimum working pressure 2,5 bar</p>				<p>Weight gr. 240 Minimum working pressure 2,5 bar</p>			

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	540 NI/min	mm 6	G 1/8"

Solenoid - Differential	3/2	Ordering code 468.1.0.12.M2	5/2	Solenoid - Differential			
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>TYPE</td></tr> <tr><td>32 = 3 ways</td></tr> <tr><td>52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
			TYPE				
32 = 3 ways							
52 = 5 ways							
<p>Weight gr. 280 Minimum working pressure 2,5 bar</p>				<p>Weight gr. 320 Minimum working pressure 2,5 bar</p>			

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	540 NI/min	mm 6	G 1/8"

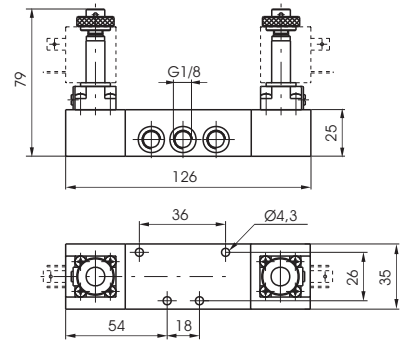
Solenoid - Solenoid	3/2	Ordering code 468.1.0.0.M2	5/2	Solenoid - Solenoid			
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			TYPE				
32 = 3 ways							
52 = 5 ways							
<p>Weight gr. 370 Minimum working pressure 2 bar</p>				<p>Weight gr. 410 Minimum working pressure 2 bar</p>			

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	540 NI/min	mm 6	G 1/8"

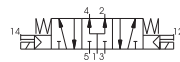
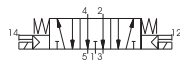
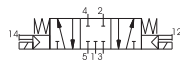
5/3

Solenoid - Solenoid

Ordering code
468.53.F.0.0.M2
FUNCTION
F 31 = Closed centres
32 = Open centres
33 = Pressured centres



Weight gr. 420
Minimum working pressure 3 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	410 Nl/min	mm 6	G 1/8"

3/2 Solenoid - Spring

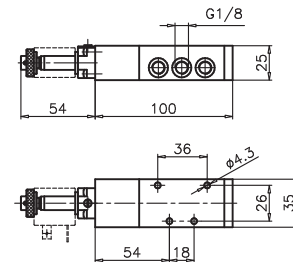
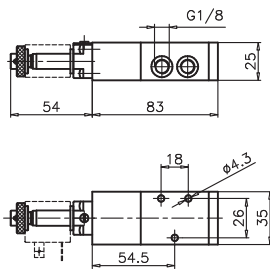
Ordering code

Solenoid - Spring

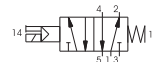
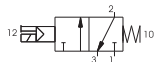
5/2

468/1.I.0.1.M2

TYPE
I 32 = 3 ways
52 = 5 ways



Weight gr. 240
Minimum working pressure 2,5 bar



Weight gr. 280
Minimum working pressure 2,5 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	540 Nl/min	mm 6	G 1/8"


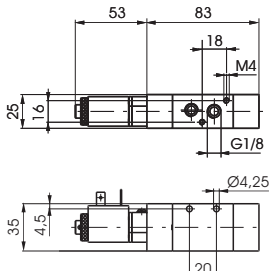

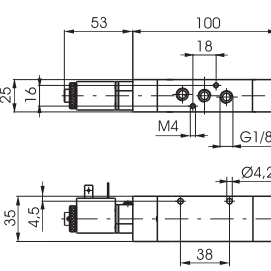
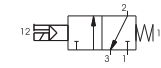
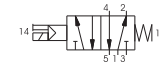
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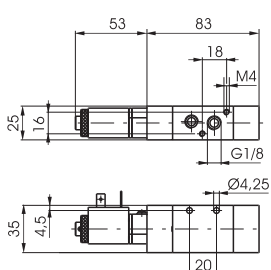

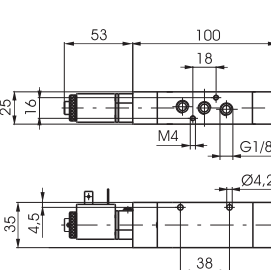
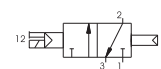
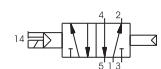
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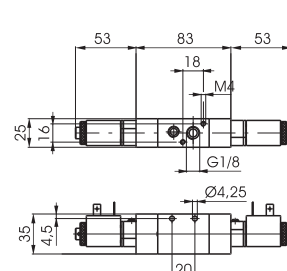

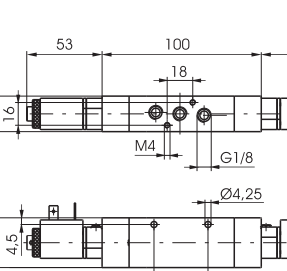
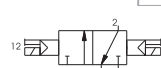

3/2	Solenoid - Differential	Ordering code	Solenoid - Differential	5/2			
		468/1.0.12.M2					
 		T TYPE 32 = 3 ways 52 = 5 ways	 				
Weight gr. 280 Minimum working pressure 2,5 bar				Weight gr. 320 Minimum working pressure 2,5 bar			
Operational characteristic		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	540 Nl/min	mm 6	G 1/8"

3/2	Solenoid - Solenoid	Ordering code	Solenoid - Solenoid	5/2			
		468/1.0.0.M2					
 		T TYPE 32 = 3 ways 52 = 5 ways	 				
Weight gr. 370 Minimum working pressure 2 bar				Weight gr. 410 Minimum working pressure 2 bar			
Operational characteristic		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	540 Nl/min	mm 6	G 1/8"

Solenoid - Solenoid						5/3					
Ordering code											
468/1.53.0.0.M2											
FUNCTION											
F 31 = Closed centres											
32 = Open centres											
33 = Pressured centres											
Weight gr. 420 Minimum working pressure 3 bar											
Operational characteristic						Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
						Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	410 Nl/min	mm 6	G 1/8"

3/2	Solenoid - Spring	Ordering code			Solenoid - Spring	5/2	
  Weight gr. 220 Minimum working pressure 2,5 bar		488.T.0.1.S TYPE T 32 = 3 ways 52 = 5 ways TENSION CODE M11 = 24 V D.C. S M56 = 24 V - 50/60 Hz M57 = 110 V - 50/60Hz M58 = 220V - 50/60Hz			  Weight gr. 260 Minimum working pressure 2,5 bar		
							 
Operating Characteristics		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	620 Nl/min	mm 6	G 1/8"

3/2	Solenoid - Differential	Ordering code			Solenoid - Differential	5/2	
  Weight gr. 220 Minimum working pressure 2,5 bar		488.T.0.12.S TYPE T 32 = 3 ways 52 = 5 ways TENSION CODE M11 = 24 V D.C. S M56 = 24 V - 50/60 Hz M57 = 110 V - 50/60Hz M58 = 220V - 50/60Hz			  Weight gr. 260 Minimum working pressure 2,5 bar		
							 
Operating Characteristics		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	620 Nl/min	mm 6	G 1/8"

3/2	Solenoid - solenoid	Ordering code			Solenoid - solenoid	5/2	
  Weight gr. 320 Minimum working pressure 2 bar		488.T.0.0.S TYPE T 32 = 3 ways 52 = 5 ways TENSION CODE M11 = 24 V D.C. S M56 = 24 V - 50/60 Hz M57 = 110 V - 50/60Hz M58 = 220V - 50/60Hz			  Weight gr. 360 Minimum working pressure 2 bar		
							 
Operating Characteristics		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	620 Nl/min	mm 6	G 1/8"



Solenoid - solenoid

5/3

Ordering code

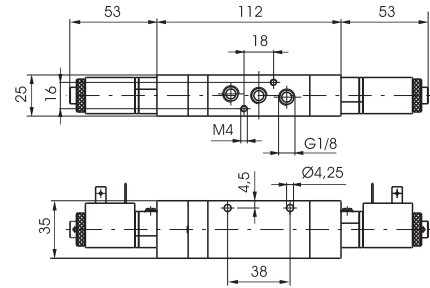
488.53.F.0.0.S

FUNCTION

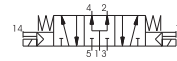
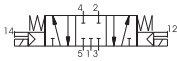
- F** 31 = Closed centres
- 32 = Open centres
- 33 = Pressured centres

TENSION CODE

- S** M11 = 24 V D.C.
- M56 = 24 V - 50/60 Hz
- M57 = 110 V - 50/60Hz
- M58 = 220V - 50/60Hz



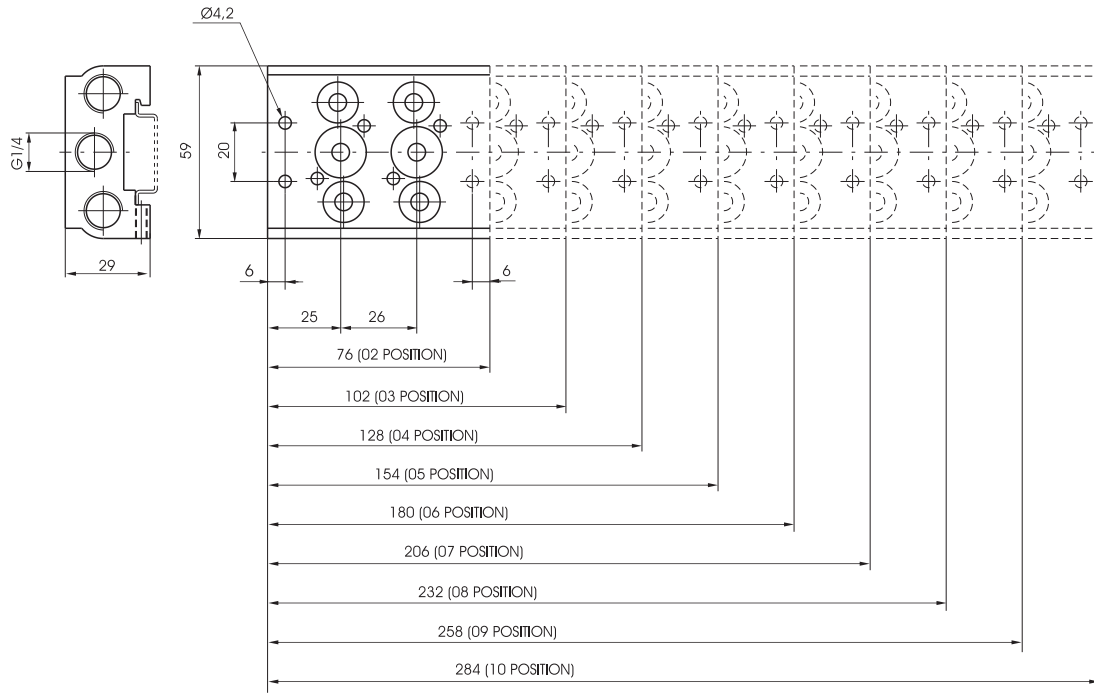
Weight gr. 400
Minimum working pressure 3 bar



Operating Characteristics

Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
		Min.	Max.			
Filtered and lubricated air	10 bar	-5°C	+50°C	410 Nl/min	mm 6	G 1/8"

Manifolds



Ordering code

488.P

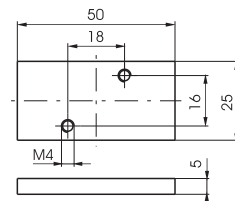
POSITION

- 02 = 2 pos. (220 gr)
- 03 = 3 pos. (290 gr)
- 04 = 4 pos. (360 gr)
- 05 = 5 pos. (430 gr)
- 06 = 6 pos. (500 gr)
- 07 = 7 pos. (570 gr)
- 08 = 8 pos. (640 gr)
- 09 = 9 pos. (710 gr)
- 10 = 10 pos. (780 gr)

Closing plate

Ordering code

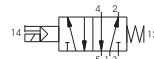
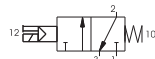
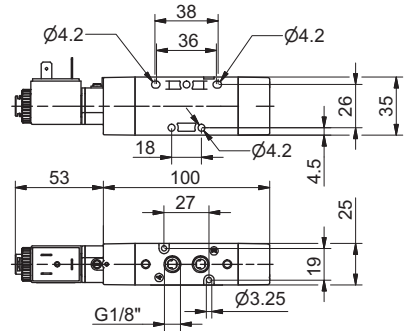
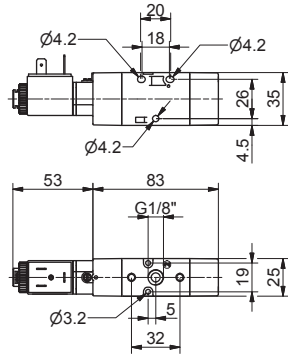
488.00



Solenoid - spring (Self-feeding)

3/2
5/2

Ordering code	
T488.T.0.1.V	
TYPE	32 = 3 ways
	52 = 5 ways
VOLTAGE	
M9 = 24 V D.C. (rating power 2 W)	
M11 = 24 V D.C. (rating power 3.8 W)	
V	M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)



Weight gr. 160
Minimum working pressure 2,5 bar

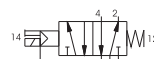
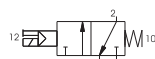
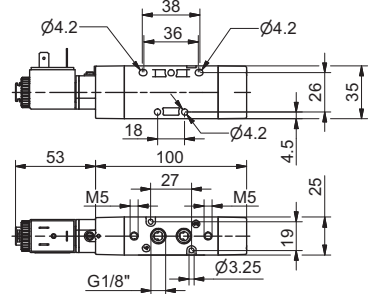
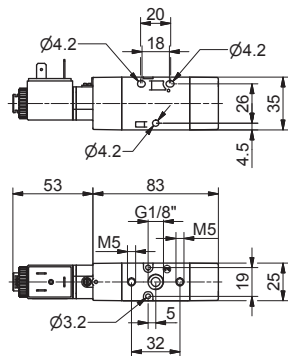
Weight gr. 190
Minimum working pressure 2,5 bar

Operating Characteristics	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	620 NI/min	mm 6

Solenoid - spring (External feeding)

3/2
5/2

Ordering code	
T488.T.0.1E.V	
TYPE	32 = 3 ways
	52 = 5 ways
VOLTAGE	
M9 = 24 V D.C. (rating power 2 W)	
M11 = 24 V D.C. (rating power 3.8 W)	
V	M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)



Weight gr. 160
Minimum working pressure 2,5 bar

Weight gr. 190
Minimum working pressure 2,5 bar

Operating Characteristics	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot port size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	620 NI/min	mm 6	G 1/8"

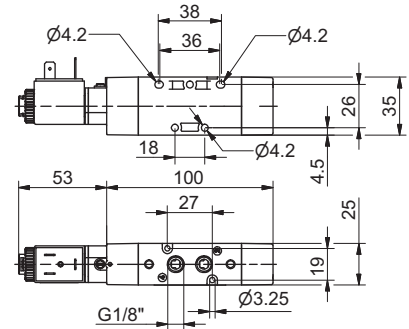
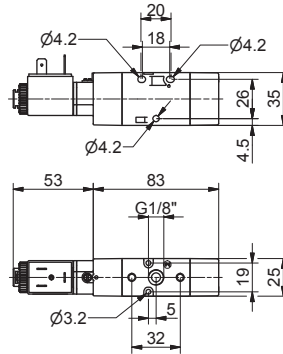
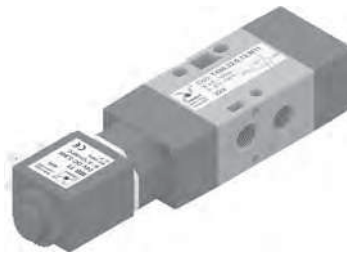
Solenoid - Differential (Self-feeding)

3/2
5/2

Ordering code

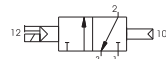
T488.T.0.12.V

- T** TYPE
32 = 3 ways
52 = 5 ways
- VOLTAGE
M9 = 24 V D.C. (rating power 2 W)
M11 = 24 V D.C. (rating power 3,8 W)
- V**
M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)



Weight gr. 160
Minimum working pressure 2,5 bar

Weight gr. 190
Minimum working pressure 2,5 bar



Operating Characteristics

Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Min. -5°C	Max. +50°C			
Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	620 NI/min	mm 6	G 1/8"

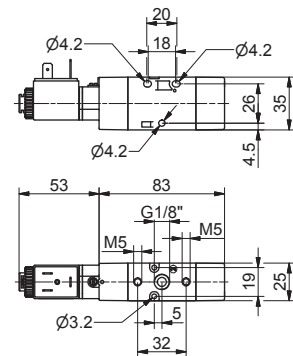
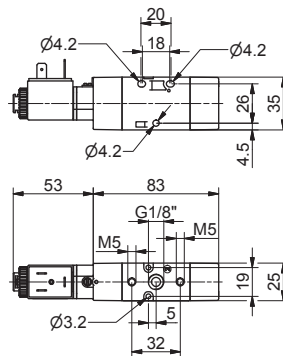
Solenoid - Differential (External feeding)

3/2
5/2

Ordering code

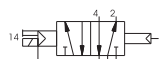
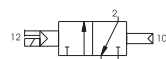
T488.T.0.12E.V

- T** TYPE
32 = 3 ways
52 = 5 ways
- VOLTAGE
M9 = 24 V D.C. (rating power 2 W)
M11 = 24 V D.C. (rating power 3,8 W)
- V**
M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)



Weight gr. 160
Minimum working pressure 2,5 bar

Weight gr. 190
Minimum working pressure 2,5 bar



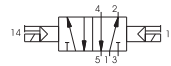
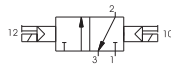
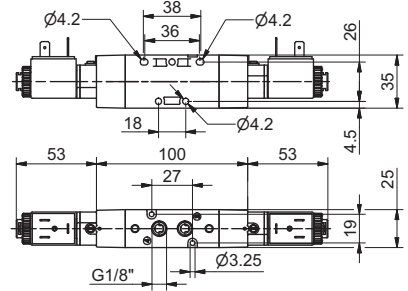
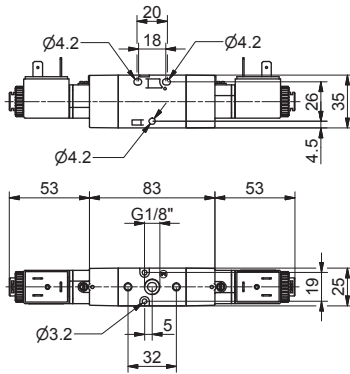
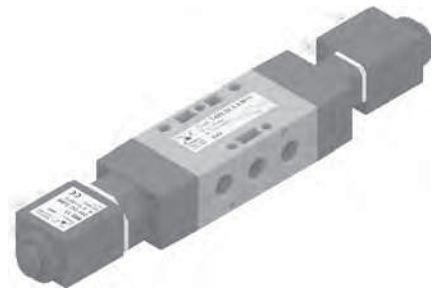
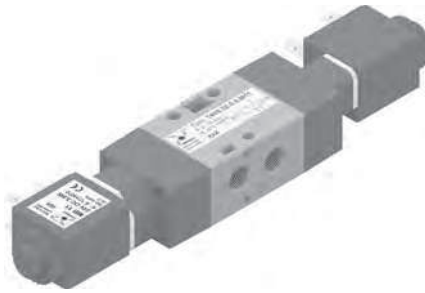
Operating Characteristics

Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot port size
		Min. -5°C	Max. +50°C				
Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	620 NI/min	mm 6	G 1/8"	M5

Solenoid - Solenoid (Self-feeding)

3/2
5/2

Ordering code	
T488.T.0.0.V	
TYPE	
T	32 = 3 ways 52 = 5 ways
VOLTAGE	
M9	= 24 V D.C. (rating power 2 W)
M11	= 24 V D.C. (rating power 3.8 W)
V	M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)



Weight gr. 250
Minimum working pressure 2 bar

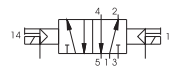
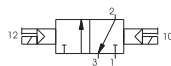
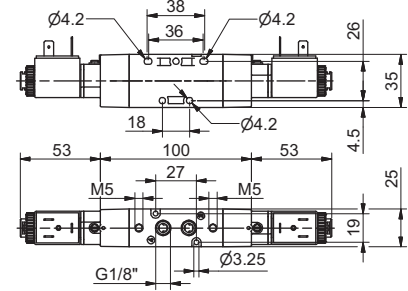
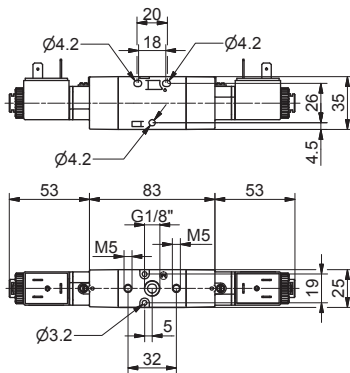
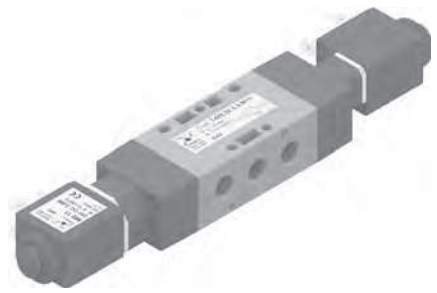
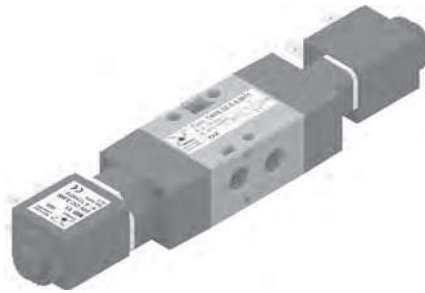
Weight gr. 290
Minimum working pressure 2 bar

Operating Characteristics	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	620 NI/min	mm 6	G 1/8"

Solenoid - Solenoid (External feeding)

3/2
5/2

Ordering code	
T488.T.0.0.E.V	
TYPE	
T	32 = 3 ways 52 = 5 ways
VOLTAGE	
M9	= 24 V D.C. (rating power 2 W)
M11	= 24 V D.C. (rating power 3.8 W)
V	M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
	M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)



Weight gr. 250
Minimum working pressure 2 bar

Weight gr. 290
Minimum working pressure 2 bar

Operating Characteristics	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	620 NI/min	mm 6	G 1/8"	M5

Solenoid - Solenoid (Self-feeding)

5/3

Ordering code

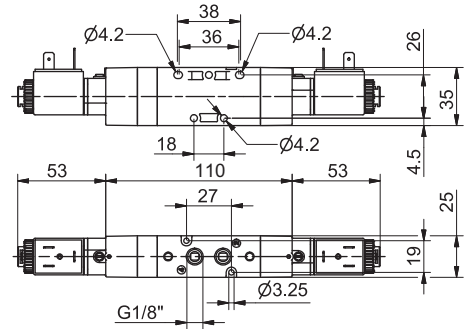
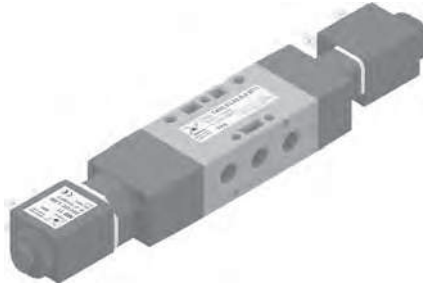
T488.53.F.0.0.V

FUNCTION

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

VOLTAGE

- V** M9 = 24 V D.C. (rating power 2 W)
- M11 = 24 V D.C. (rating power 3,8 W)
- M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
- M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
- M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)



Weight gr. 330
Minimum working pressure 3 bar



Operating Characteristics	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	410 NI/min	mm 6	G 1/8"

Solenoid - Solenoid (External feeding)

5/3

Ordering code

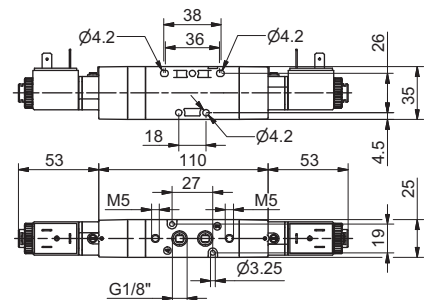
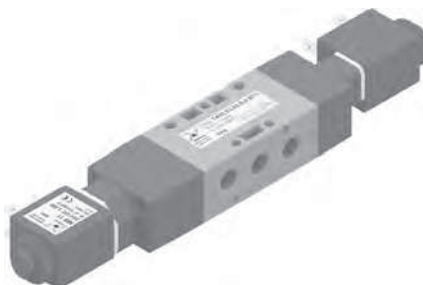
T488.53.F.0.0E.V

FUNCTION

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

VOLTAGE

- V** M9 = 24 V D.C. (rating power 2 W)
- M11 = 24 V D.C. (rating power 3,8 W)
- M56 = 24 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
- M57 = 110 V 50/60 Hz (starting power 9 VA, rating power 6 VA)
- M58 = 220 V 50/60 Hz (starting power 9 VA, rating power 6 VA)

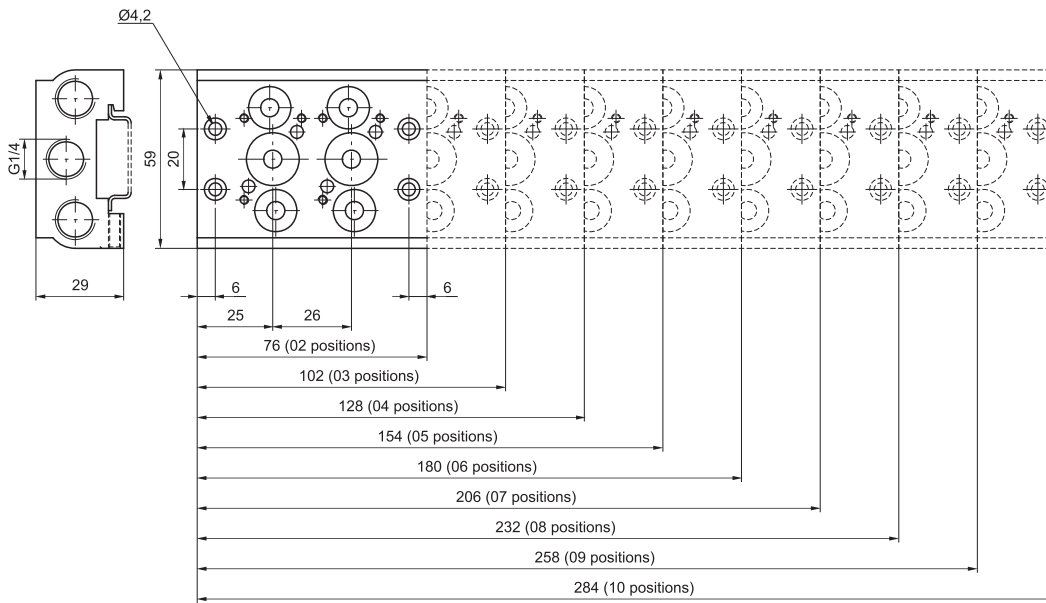


Weight gr. 330
Minimum working pressure 3 bar



Operating Characteristics	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	410 NI/min	mm 6	G 1/8"	M5

Collectors



Ordering code

T488.P

N. POSITIONS

- 02 = 2 pos. (Weight 220 gr.)
- 03 = 3 pos. (Weight 290 gr.)
- 04 = 4 pos. (Weight 360 gr.)
- P** 05 = 5 pos. (Weight 430 gr.)
- 06 = 6 pos. (Weight 500 gr.)
- 07 = 7 pos. (Weight 570 gr.)
- 08 = 8 pos. (Weight 640 gr.)
- 09 = 9 pos. (Weight 710 gr.)
- 10 = 10 pos. (Weight 780 gr.)

2

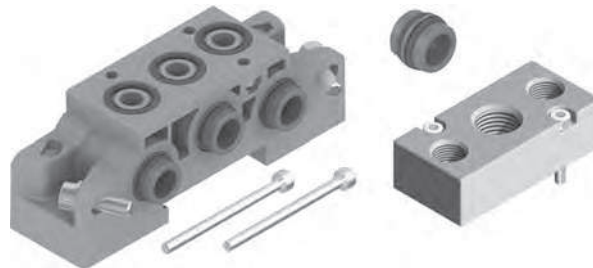
Modular collectors

Ordering code

T488.T

TYPE

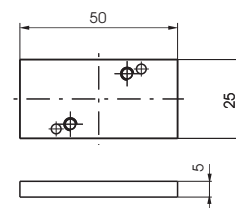
- 01 = Single complete base
- 01K = Complete modular bases (batches of 20 pieces)
- 30K = Hollow bush, complete with O-rings (Nr. 50 pieces)
- 31K = Blank bush, complete with O-rings (Nr. 50 pieces)
- T** 32K = Intermediate air intake with screw (Nr. 5 pieces)
- 33 = Screw to suite solenoid valves (Nr.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



Closing plate

Ordering code

T488.00



Weight gr. 25

2

Solenoid - Spring	3/2	Ordering code 464.1.0.1.M2	5/2	Solenoid - Spring			
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: center;">TYPE</td></tr> <tr><td style="text-align: center;">32 = 3 ways</td></tr> <tr><td style="text-align: center;">52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
			TYPE				
32 = 3 ways							
52 = 5 ways							
Weight gr. 530 Minimum working pressure 2,5 bar				Weight gr. 625 Minimum working pressure 2,5 bar			

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10	Min. -5°C	Max. +50°C	1360 Nl/min	mm 8	G 1/4"

Solenoid - Differential	3/2	Ordering code 464.1.0.12.M2	5/2	Solenoid - Differential			
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: center;">TYPE</td></tr> <tr><td style="text-align: center;">32 = 3 ways</td></tr> <tr><td style="text-align: center;">52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
			TYPE				
32 = 3 ways							
52 = 5 ways							
Weight gr. 650 Minimum working pressure 2,5 bar				Weight gr. 740 Minimum working pressure 2,5 bar			

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10	Min. -5°C	Max. +50°C	1360 Nl/min	mm 8	G 1/4"

Solenoid - Solenoid	3/2	Ordering code 464.1.0.0.M2	5/2	Solenoid - Solenoid			
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: center;">TYPE</td></tr> <tr><td style="text-align: center;">32 = 3 ways</td></tr> <tr><td style="text-align: center;">52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
			TYPE				
32 = 3 ways							
52 = 5 ways							
Weight gr. 730 Minimum working pressure 2 bar				Weight gr. 820 Minimum working pressure 2bar			

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10	Min. -5°C	Max. +50°C	1360 Nl/min	mm 8	G 1/4"

5/3

Solenoid - Solenoid							
Ordering code							
464.53.0.0.M2							
FUNCTION							
F 31 = Closed centres 32 = Open centres 33 = Pressured centres							
Weight gr. 820 Minimum working pressure 3 bar							
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10	Min. -5°C	Max. +50°C	1280 NI/min	mm 8	G 1/4"

2

3/2	Solenoid - Spring	Ordering code		Solenoid - Spring			
		464/1.0.0.1.M2					
		TYPE T 32 = 3 ways 52 = 5 ways					
Weight gr. 530 Minimum working pressure 2,5 bar				Weight gr. 625 Minimum working pressure 2,5 bar			
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1360 NI/min	mm 8	G 1/4"

3/2	Solenoid - Differential	Ordering code		Solenoid - Differential			
		464/1.0.0.12.M2					
		TYPE T 32 = 3 ways 52 = 5 ways					
Weight gr. 650 Minimum working pressure 2,5 bar				Weight gr. 740 Minimum working pressure 2,5 bar			
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1360 NI/min	mm 8	G 1/4"

2

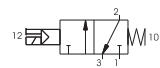
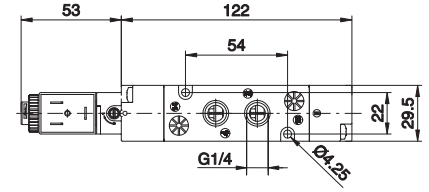
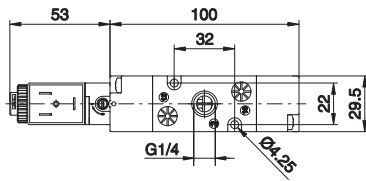
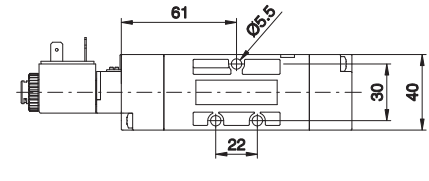
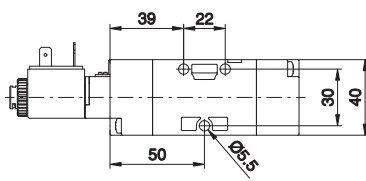
3/2	Solenoid - Solenoid	Ordering code		Solenoid - Solenoid			5/2
		464/1.1.0.0.M2					
Weight gr. 730 Minimum working pressure 2 bar				Weight gr. 820 Minimum working pressure 2 bar			
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1360 Nl/min	mm 8	G 1/4"

Solenoid - Solenoid						5/3
Ordering code 464/1.53.0.0.M2						
F FUNCTION 31 = Closed centres 32 = Open centres 33 = Pressured centres						
Weight gr. 820 Minimum working pressure 3 bar						
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1280 Nl/min	G 1/4"

Solenoid - Spring (self-feeding)

3/2
5/2

Ordering code	
T424.T.0.1.V	
TYPE	
T	32 = 3 ways 52 = 5 ways
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 = 220 V 50-60 Hz



Weight gr. 205
Minimum operating pressure 2,5 bar

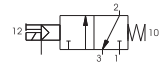
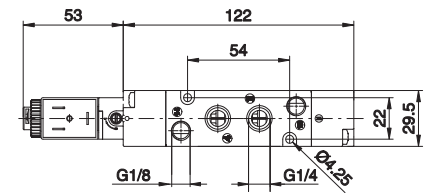
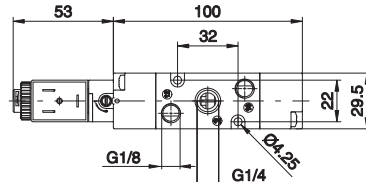
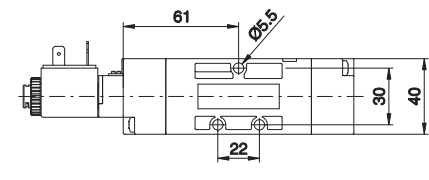
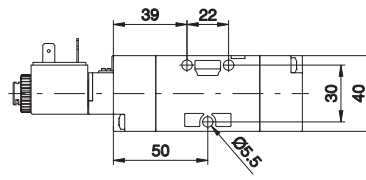
Weight gr. 235
Minimum operating pressure 2,5 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"

Solenoid - Spring (external feeding)

3/2
5/2

Ordering code	
T424.T.0.1.E.V	
TYPE	
T	32 = 3 ways 52 = 5 ways
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 = 220 V 50-60 Hz



Weight gr. 205
Minimum operating pressure 2,5 bar

Weight gr. 235
Minimum operating pressure 2,5 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"	G 1/8"

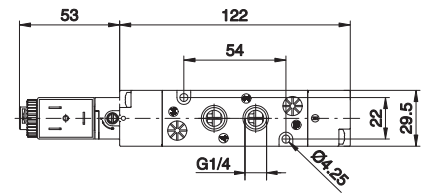
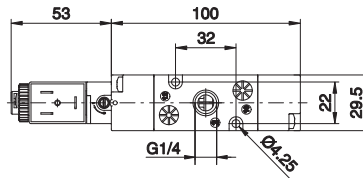
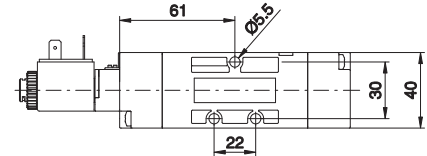
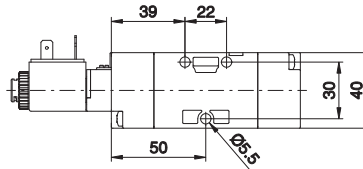
Solenoid - Differential (self-feeding)

3/2
5/2

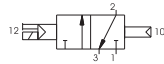
Ordering code

T424.T.0.12.V

- T** TYPE
32 = 3 ways
52 = 5 ways
- 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 = 220 V 50-60 Hz



Weight gr. 205
Minimum operating pressure 2 bar



Weight gr. 235
Minimum operating pressure 2 bar

Operational characteristic

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"

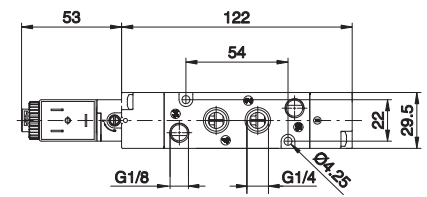
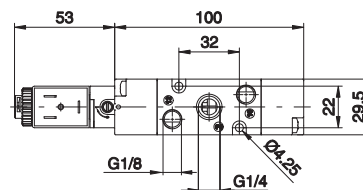
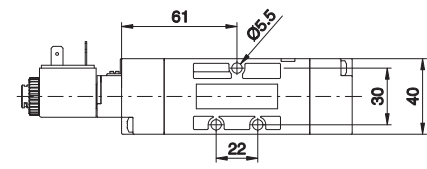
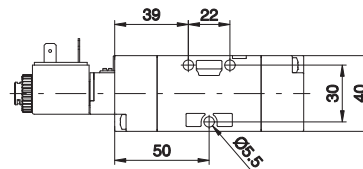
Solenoid - Differential (external feeding)

3/2
5/2

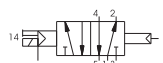
Ordering code

T424.T.0.12.E.V

- T** TYPE
32 = 3 ways
52 = 5 ways
- 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 = 220 V 50-60 Hz



Weight gr. 205
Minimum operating pressure 2 bar



Weight gr. 235
Minimum operating pressure 2 bar

Operational characteristic

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"	G 1/8"

3/2
5/2

<p>Solenoid - Solenoid (self-feeding)</p>																					
<p>Ordering code</p> <p>T424.T.0.0.V</p>																					
<p>TYPE</p> <p>T 32 = 3 ways 52 = 5 ways</p> <p>VOLTAGE</p> <p>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 = 220 V 50-60 Hz</p>																					
<p>Weight gr. 240 Minimum operating pressure 2 bar</p>																					
<p>Weight gr. 270 Minimum operating pressure 2 bar</p>																					
<table border="1"> <thead> <tr> <th rowspan="2">Operational characteristic</th> <th>Fluid</th> <th>Max working pressure (bar)</th> <th colspan="2">Temperature °C</th> <th>Flow rate at 6 bar with Δp=1 (NI/min)</th> <th>Ø Orifice size (mm)</th> <th>Working ports size</th> </tr> </thead> <tbody> <tr> <td>Filtered and lubricated air</td> <td>10 bar</td> <td>Min. -5°C</td> <td>Max. +50°C</td> <td>1050 NI/min</td> <td>mm 8,5</td> <td>G 1/4"</td> </tr> </tbody> </table>							Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)		Working ports size													
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"														

2

<p>Solenoid - Solenoid (external feeding)</p>																							
<p>Ordering code</p> <p>T424.T.0.0.E.V</p>																							
<p>TYPE</p> <p>T 32 = 3 ways 52 = 5 ways</p> <p>VOLTAGE</p> <p>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 = 220 V 50-60 Hz</p>																							
<p>Weight gr. 240 Minimum operating pressure 2 bar</p>																							
<p>Weight gr. 270 Minimum operating pressure 2 bar</p>																							
<table border="1"> <thead> <tr> <th rowspan="2">Operational characteristic</th> <th>Fluid</th> <th>Max working pressure (bar)</th> <th colspan="2">Temperature °C</th> <th>Flow rate at 6 bar with Δp=1 (NI/min)</th> <th>Ø Orifice size (mm)</th> <th>Working ports size</th> <th>Pilot ports size</th> </tr> </thead> <tbody> <tr> <td>Filtered and lubricated air</td> <td>10 bar</td> <td>Min. -5°C</td> <td>Max. +50°C</td> <td>1050 NI/min</td> <td>mm 8,5</td> <td>G 1/4"</td> <td>G 1/8"</td> </tr> </tbody> </table>							Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size	Pilot ports size	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"	G 1/8"
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)		Working ports size	Pilot ports size														
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1050 NI/min	mm 8,5	G 1/4"	G 1/8"															

3/2
5/2

Solenoid - Solenoid (self-feeding)

5/3

Ordering code

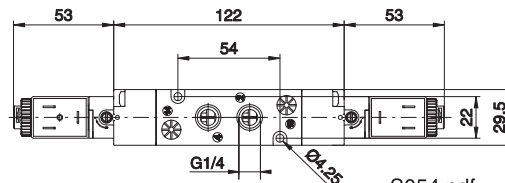
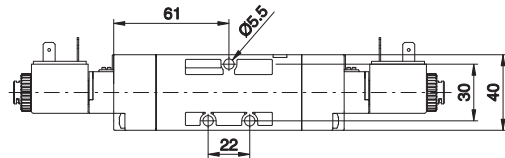
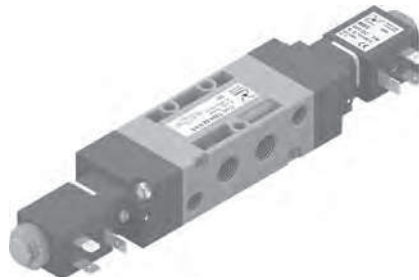
T424.53.F.0.0.V

FUNCTION

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

VOLTAGE

- V** 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 = 220 V 50-60 Hz



S054.pdf

S055.pdf



Weight gr. 295
Minimum operating pressure 3 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	900 NI/min	mm 8,5	G 1/4"

Solenoid - Solenoid (external feeding)

5/3

Ordering code

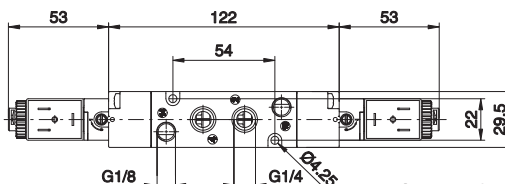
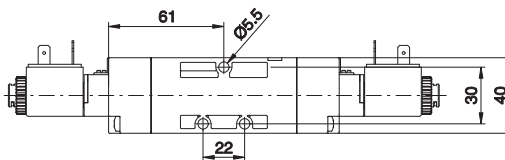
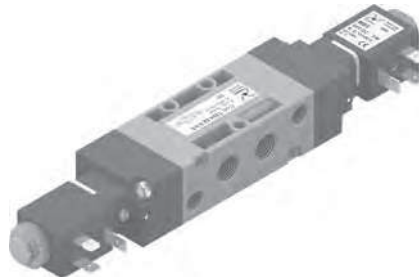
T424.53.F.0.0.E.V

FUNCTION

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

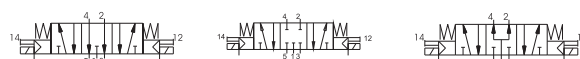
VOLTAGE

- V** 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 = 220 V 50-60 Hz



S101.pdf

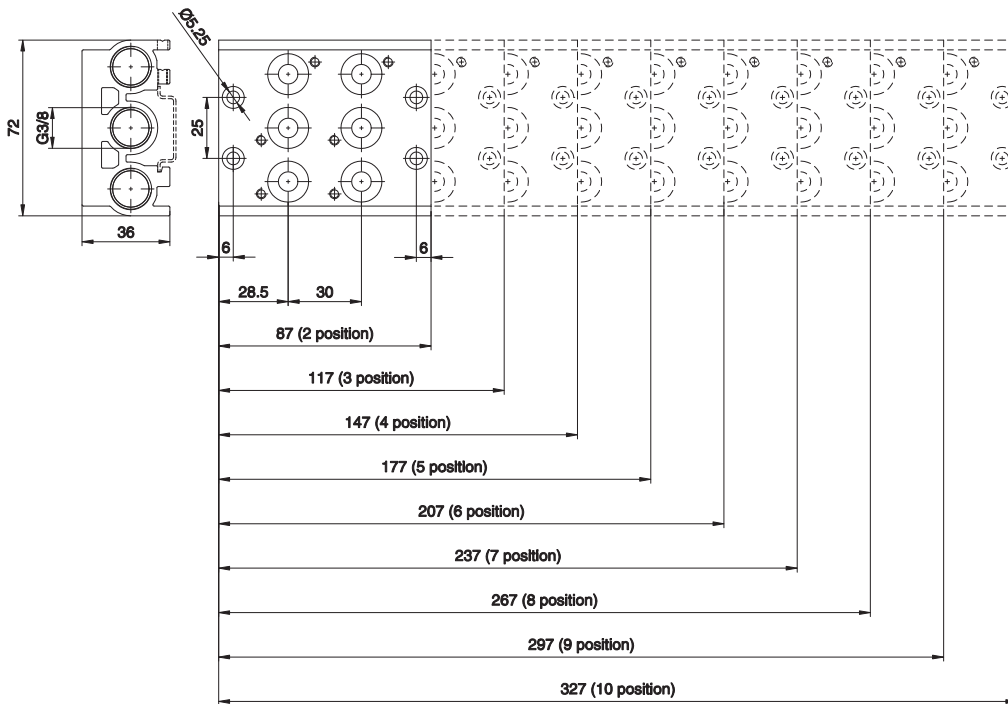
S126.pdf



Weight gr. 295
Minimum operating pressure 3 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Ø Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	900 NI/min	mm 8,5	G 1/4"	G 1/8"

Manifold



Ordering code

T424.P

N. POSITIONS

- 02 = 2 pos. (weight 350 gr.)
- 03 = 3 pos. (weight 420 gr.)
- 04 = 4 pos. (weight 560 gr.)
- P** 05 = 5 pos. (weight 670 gr.)
- 06 = 6 pos. (weight 770 gr.)
- 07 = 7 pos. (weight 880 gr.)
- 08 = 8 pos. (weight 980 gr.)
- 09 = 9 pos. (weight 1090 gr.)
- 10 = 10 pos. (weight 1200 gr.)

2

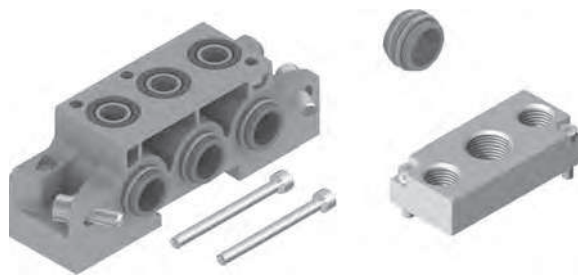
Modular collectors

Ordering code

T424.T

TYPE

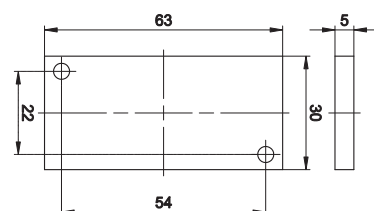
- 01 = Single complete base
- 01K = Complete modular bases (batches of 15 pieces)
- 30K = Hollow bush, complete with O-rings (Nr. 50 pieces)
- 31K = Blank bush, complete with O-rings (Nr. 50 pieces)
- T** 32K = Intermediate air intake with screw (Nr. 5 pieces)
- 33 = Screw to suite solenoid valves (Nr. 50 pieces)
- 34 = Screw for joining bases (Nr. 50 pieces)
- 35 = Washer for screw for joining bases (Nr. 50 pieces)
- 36 = O-ring seal (Nr. 50 pieces)



Closing plate

Ordering code

T424.00



Weight gr. 25

Solenoid - Spring

3/2
5/2

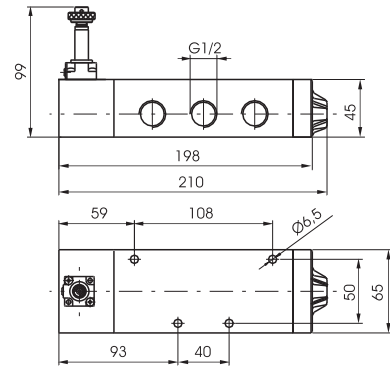
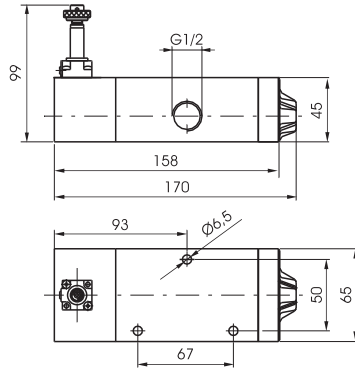
Ordering code

452.1.0.1.M2

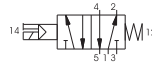
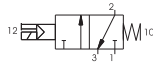
TYPE

32 = 3 ways

52 = 5 ways



Weight gr. 1152
Minimum working pressure 2,5 bar



Weight gr. 1422
Minimum working pressure 2,5 bar

Operational characteristic

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 Nl/min	mm 15	G 1/2"

Solenoid - Differential

3/2
5/2

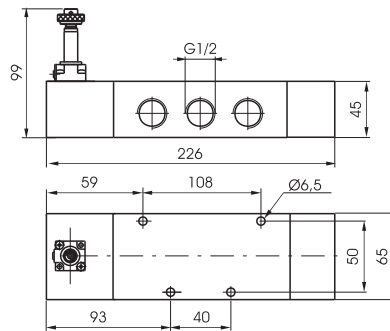
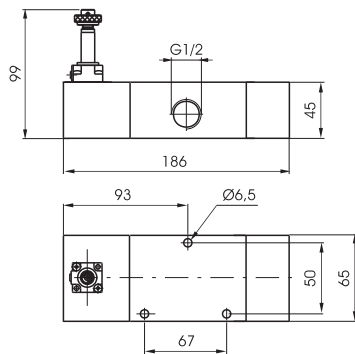
Ordering code

452.1.0.12.M2

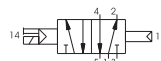
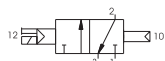
TYPE

32 = 3 ways

52 = 5 ways



Weight gr. 1422
Minimum working pressure 2,5 bar



Weight gr. 1692
Minimum working pressure 2,5 bar

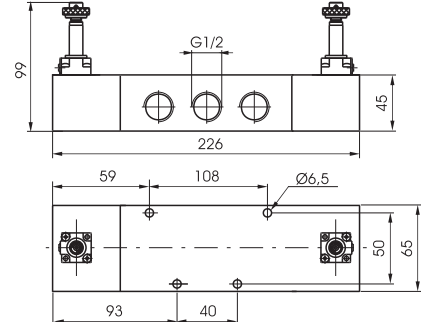
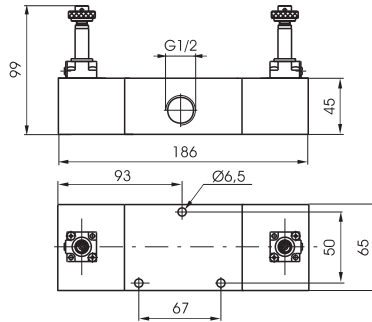
Operational characteristic

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 Nl/min	mm 15	G 1/2"

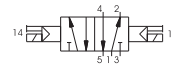
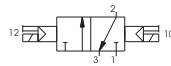
3/2
5/2

Solenoid - Solenoid

Ordering code	
452.1.0.0.M2	
TYPE	
1 32 = 3 ways	
52 = 5 ways	



Weight gr. 1474
Minimum working pressure 2 bar



Weight gr. 1744
Minimum working pressure 2 bar

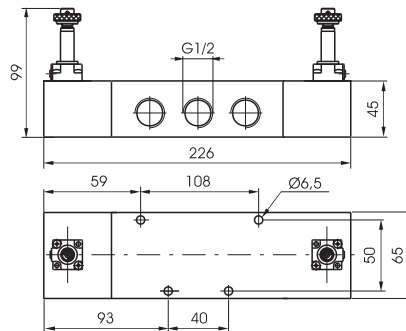
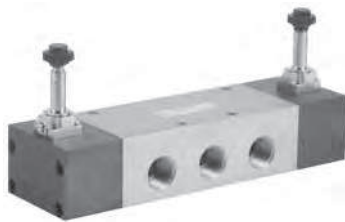
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 NI/min	mm 15

2

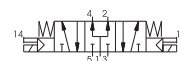
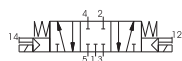
Solenoid - Solenoid

5/3

Ordering code	
452.53.F.0.0.M2	
FUNCTION	
F 31 = Closed centres	
32 = Open centres	
33 = Pressured centres	



Weight gr. 1744
Minimum working pressure 3 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 NI/min	mm 15

Solenoid - Spring

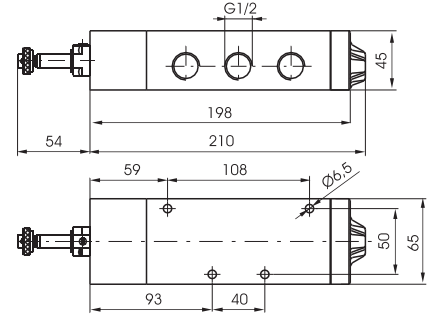
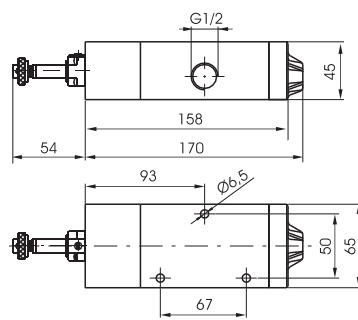
3/2
5/2

Ordering code

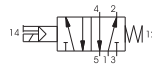
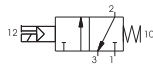
452/1.0.1.M2

TYPE

- 32 = 3 ways
- 52 = 5 ways



Weight gr. 1330
Minimum working pressure 2,5 bar



Weight gr. 1600
Minimum working pressure 2,5 bar

Operational characteristic

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 NI/min	mm 15	G 1/2"

Solenoid - Differential

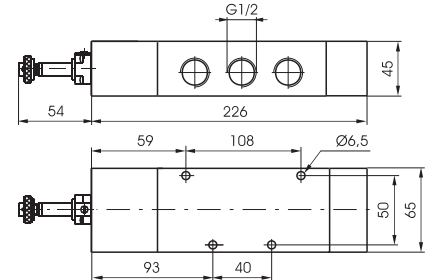
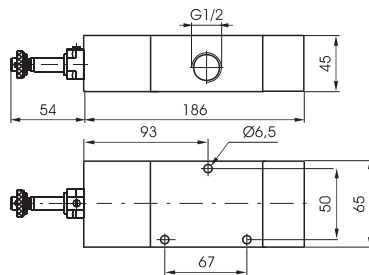
3/2
5/2

Ordering code

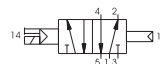
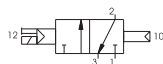
452/1.0.12.M2

TYPE

- 32 = 3 ways
- 52 = 5 ways



Weight gr. 1600
Minimum working pressure 2,5 bar



Weight gr. 1870
Minimum working pressure 2,5 bar

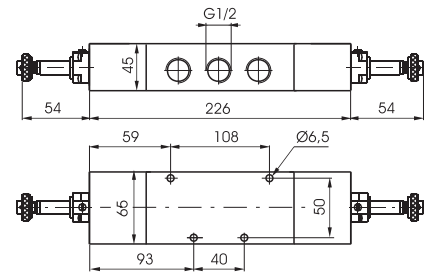
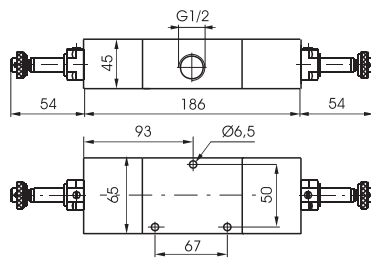
Operational characteristic

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 NI/min	mm 15	G 1/2"

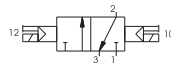
3/2
5/2

Solenoid - Solenoid

Ordering code
452/1.1.0.0.M2
TYPE
1 32 = 3 ways
52 = 5 ways



Weight gr. 1830
Minimum working pressure 2 bar



Weight gr. 2100
Minimum working pressure 2 bar

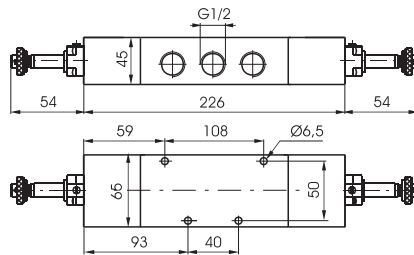
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		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 NI/min	mm 15

2

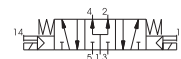
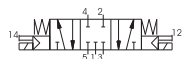
Solenoid - Solenoid

5/3

Ordering code
452/1.53.F.0.0.M2
FUNCTION
F 31 = Closed centres
32 = Open centres
33 = Pressured centres



Weight gr. 2100
Minimum working pressure 3 bar




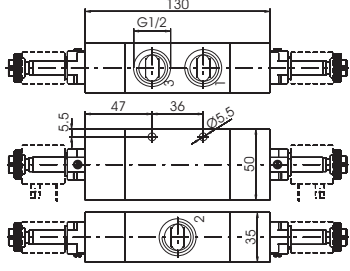
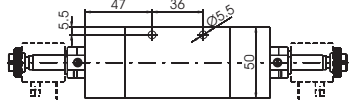
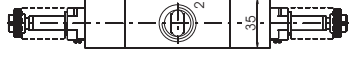

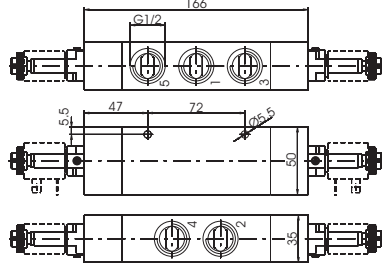
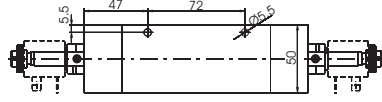

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	3500 NI/min	mm 15


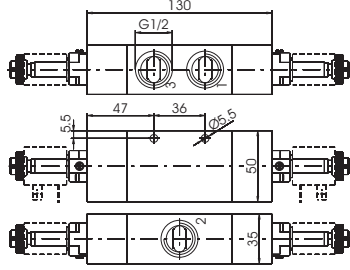
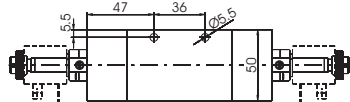


2

3/2	Solenoid - Spring	Ordering code	412/2T.0.1.V		Solenoid - Spring	5/2	
<p>Weight gr. 578 Minimum working pressure 2,5 bar</p>		<p>Weight gr. 700 Minimum working pressure 2,5 bar</p>					
<p>Operational characteristic</p>		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
<p>Filtered and lubricated air or not</p>		10 bar	Min. -5°C Max. +50°C	3600 NI/min	mm 15	G 1/2"	

3/2	Solenoid - Differential external	Ordering code	412/2T.0.12.V		Solenoid - Differential external	5/2	
<p>Weight gr. 522 Minimum working pressure 2,5 bar</p>		<p>Weight gr. 644 Minimum working pressure 2,5 bar</p>					
<p>Operational characteristic</p>		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
<p>Filtered and lubricated air or not</p>		10 bar	Min. -5°C Max. +50°C	3600 NI/min	mm 15	G 1/2"	

3/2	Pneumatic - Differential self aligned	Ordering code	412/2T.0.12/1.V		Pneumatic - Differential self aligned	5/2	
<p>Weight gr. 526 Minimum working pressure 2,5 bar</p>		<p>Weight gr. 648 Minimum working pressure 2,5 bar</p>					
<p>Operational characteristic</p>		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
<p>Filtered and lubricated air or not</p>		10 bar	Min. -5°C Max. +50°C	3600 NI/min	mm 15	G 1/2"	

3/2	Solenoid - Solenoid	Ordering code 412/2.T.0.0.M2	Solenoid - Solenoid	5/2			
   		TYPE T 32 = 3 ways 52 = 5 ways	   				
					Weight gr. 612 Minimum working pressure 2 bar	Weight gr. 732 Minimum working pressure 2 bar	
Operational characteristic		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	10 bar	Min. -5°C Max. +50°C	3600 Nl/min	mm 15	G 1/2"

Solenoid - Solenoid		5/3					
Ordering code 412/2.53.T.0.0.M2		   					
FUNCTION F 31 = Closed centres 32 = Open centres 33 = Pressured centres							
Weight gr. 794 Minimum working pressure 3 bar							
Operational characteristic		Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	10 bar	Min. -5°C Max. +50°C	3300 Nl/min	mm 15	G 1/2"

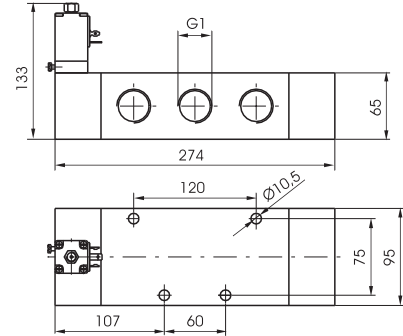
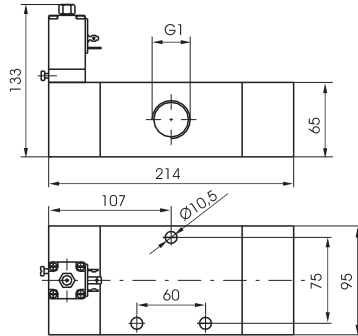
Solenoid - Spring

3/2
5/2

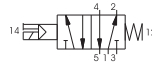
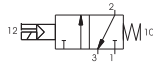
Ordering code

411.T.0.1.S

- T** TYPE
32 = 3 ways
52 = 5 ways
- S** SOLENOID CODE
S = See Solenoid valves "S" type, Series 300



Weight gr. 3400
Minimum piloting pressure 2,5 bar



Weight gr. 4300
Minimum piloting pressure 2,5 bar

Operational characteristic

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	6500 NI/min	mm 20	G 1"

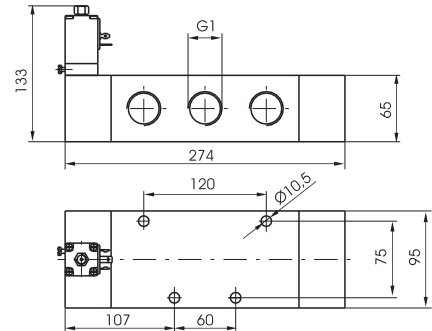
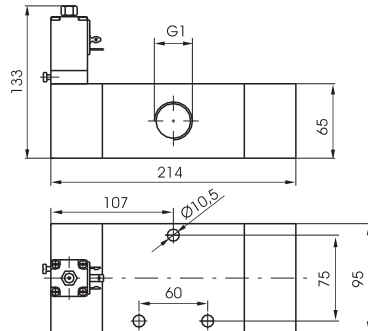
Solenoid - Differential

3/2
5/2

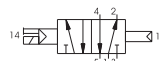
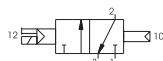
Ordering code

411.T.0.12.S

- T** TYPE
32 = 3 ways
52 = 5 ways
- S** SOLENOID CODE
S = See Solenoid valves "S" type, Series 300



Weight gr. 3400
Minimum piloting pressure 2,5 bar



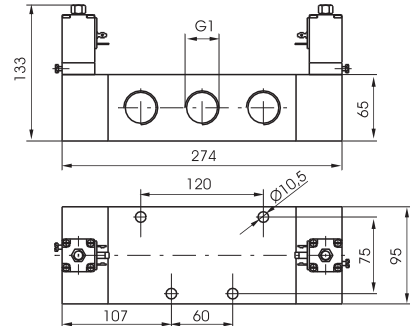
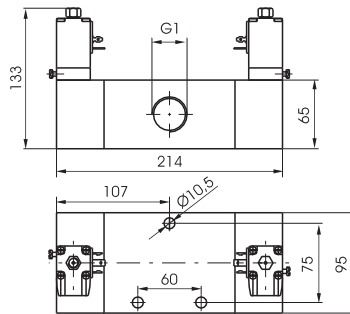
Weight gr. 4300
Minimum piloting pressure 2,5 bar

Operational characteristic

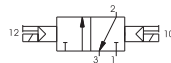
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered and lubricated air	10 bar	Min. -5°C Max. +50°C	6500 NI/min	mm 20	G 1"

Solenoid - Solenoid

Ordering code	
411.1.0.0.S	
TYPE	
1	32 = 3 ways
	52 = 5 ways
SOLENOID CODE	
S	See Solenoid valves "S" type, Series 300



Weight gr. 3700
Minimum piloting pressure 2 bar



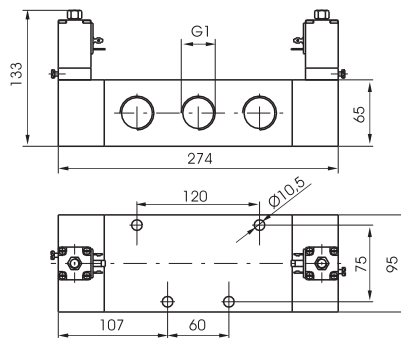
Weight gr. 4600
Minimum piloting pressure 2 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	6500 NI/min	mm 20

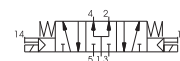
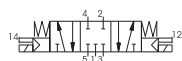
2

Solenoid - Solenoid

Ordering code	
411.53.F.0.0.S	
FUNCTION	
F	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
SOLENOID CODE	
S	See Solenoid valves "S" type, Series 300



Weight gr. 4700
Minimum piloting pressure 3 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	6500 NI/min	mm 20