

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"  US homologated are available (see Series 300).

Construction characteristics

Body	Aluminium
Operators	Aluminium Technopolymer for spring bottom plate G 1/8", G1/4", 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							
Weight gr. 240 Minimum working pressure 2,5 bar				Weight gr. 240 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"

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							
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"

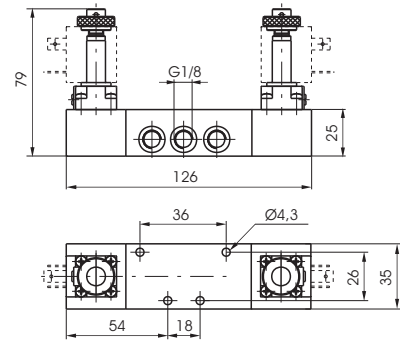
Solenoid - Solenoid	3/2	Ordering code 468.1.0.0.M2	5/2	Solenoid - Solenoid			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>TYPE</td></tr> <tr><td>32 = 3 ways</td></tr> <tr><td>52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
			TYPE				
32 = 3 ways							
52 = 5 ways							
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"

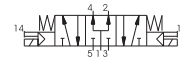
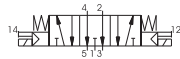
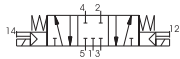
5/3

Solenoid - Solenoid

Ordering code
468.53.0.0.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 (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

3/2 Solenoid - Spring

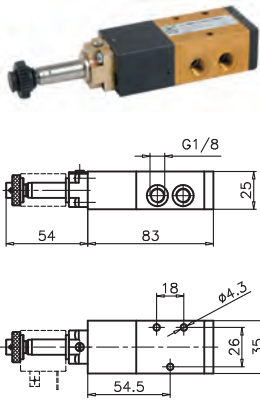
Ordering code

Solenoid - Spring

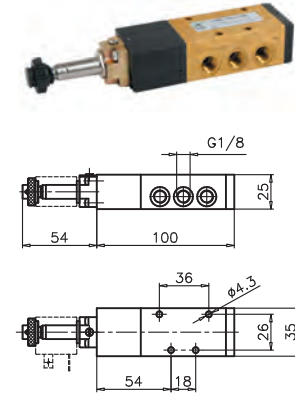
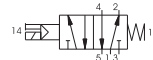
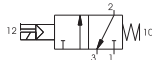
5/2

468/1.0.0.1.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 (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

3/2 Solenoid - Differential

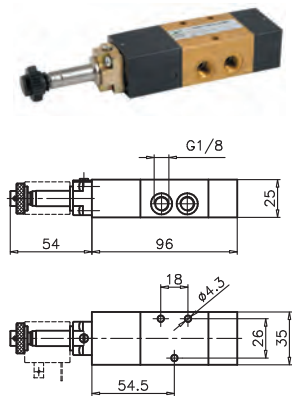
Ordering code

Solenoid - Differential

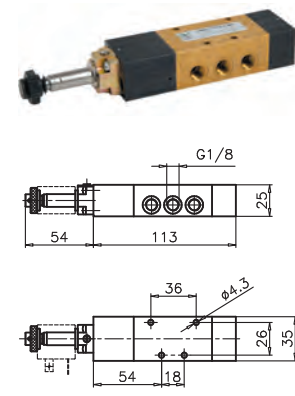
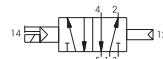
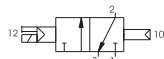
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468/1.0.0.12.M2

TYPE
I 32 = 3 ways
52 = 5 ways



Weight gr. 280
Minimum working pressure 2,5 bar


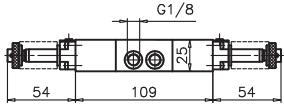
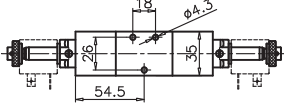

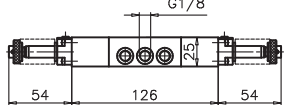
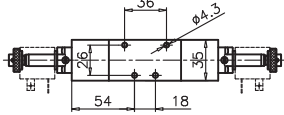



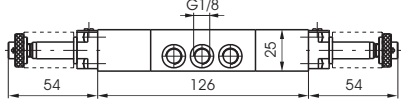
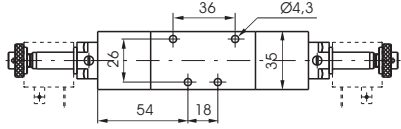
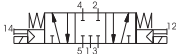
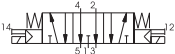
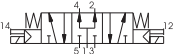
Weight gr. 320
Minimum working pressure 2,5 bar


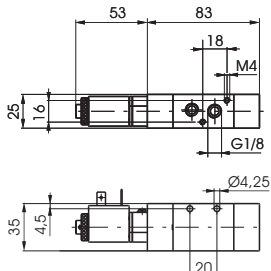

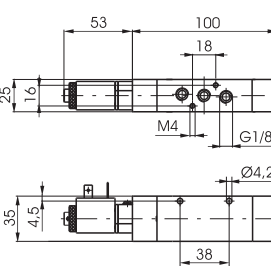
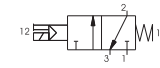
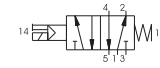
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	540 NI/min	mm 6


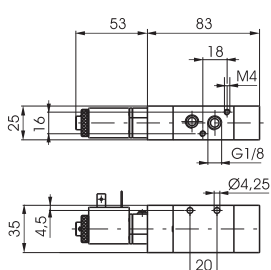

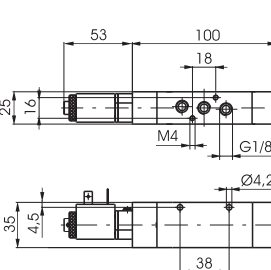
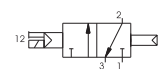
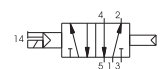



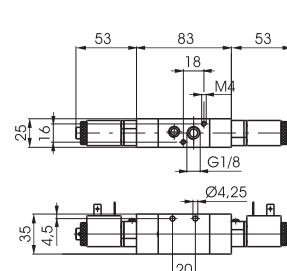

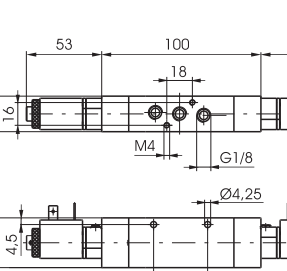
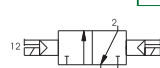

2

3/2	Solenoid - Solenoid	Ordering code	Solenoid - Solenoid				5/2	
  		468/1.1.0.0.M2	  				Weight gr. 370 Minimum working pressure 2 bar	
		TYPE 32 = 3 ways 52 = 5 ways						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 (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							5/3
Ordering code		  					Weight gr. 420 Minimum working pressure 3 bar
468/1.53.F.0.0.M2							
FUNCTION		  					Weight gr. 420 Minimum working pressure 3 bar
31 = Closed centres							
32 = Open centres							
33 = Pressured centres		Operational characteristic					Weight gr. 420 Minimum working pressure 3 bar
Filtered and lubricated air							
Filtered and lubricated air		10 bar	Min. -5°C	Max. +50°C	410 NI/min	mm 6	G 1/8"

3/2 Solenoid - Spring		Ordering code		Solenoid - Spring			
  Weight gr. 220 Minimum working pressure 2,5 bar		488.1.0.1.S TYPE 32 = 3 ways 52 = 5 ways TENSION CODE M11 = 24 V D.C. M56 = 24 V - 50/60 Hz M57 = 110 V - 50/60Hz M58 = 220V - 50/60Hz		  Weight gr. 260 Minimum working 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	620 NI/min	mm 6	G 1/8"

3/2 Solenoid - Differential		Ordering code		Solenoid - Differential			
  Weight gr. 220 Minimum working pressure 2,5 bar		488.1.0.12.S TYPE 32 = 3 ways 52 = 5 ways TENSION CODE M11 = 24 V D.C. M56 = 24 V - 50/60 Hz M57 = 110 V - 50/60Hz M58 = 220V - 50/60Hz		  Weight gr. 260 Minimum working 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	620 NI/min	mm 6	G 1/8"

3/2 Solenoid - solenoid		Ordering code		Solenoid - solenoid			
  Weight gr. 320 Minimum working pressure 2 bar		488.1.0.0.S TYPE 32 = 3 ways 52 = 5 ways TENSION CODE M11 = 24 V D.C. M56 = 24 V - 50/60 Hz M57 = 110 V - 50/60Hz M58 = 220V - 50/60Hz		  Weight gr. 360 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	620 NI/min	mm 6	G 1/8"



Solenoid - solenoid

5/3

Ordering code

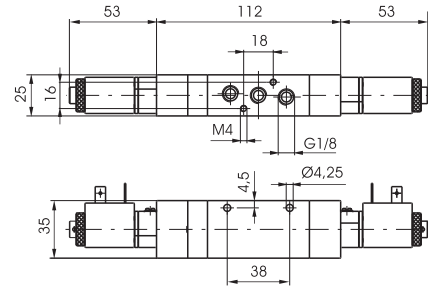
488.53.F.0.0.S

FUNCTION

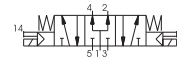
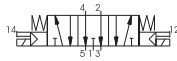
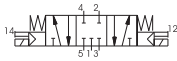
- F** 31 = Closed centres
- 32 = Open centres
- 33 = Pressured centres

TENSION CODE

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



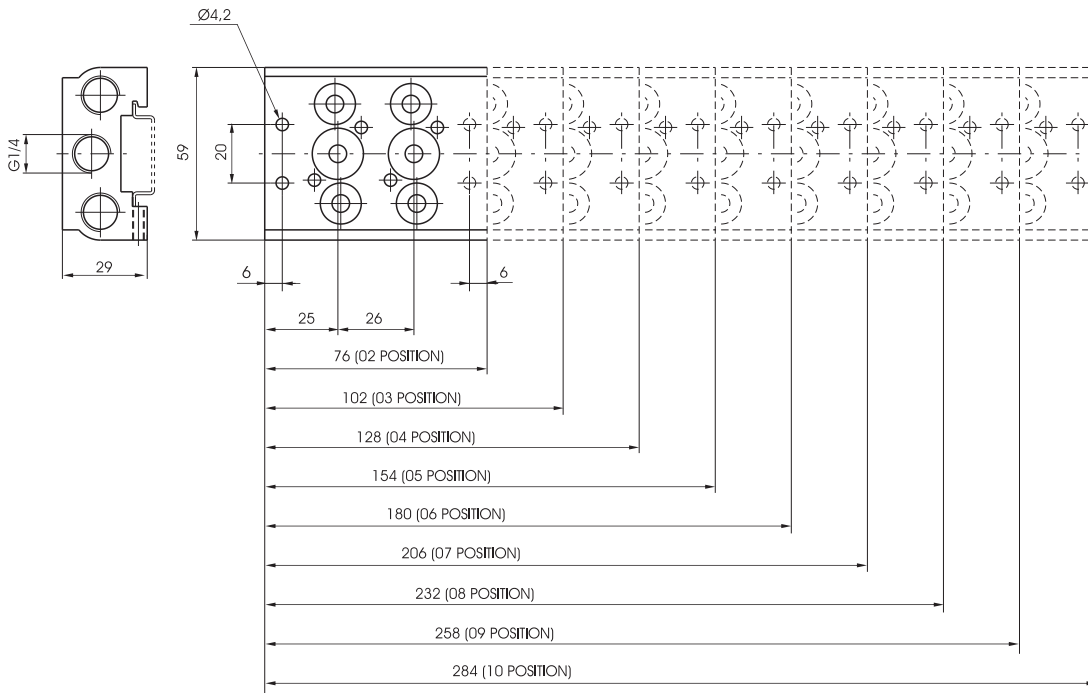
Weight gr. 400
Minimum working pressure 3 bar



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

2

Manifolds



Ordering code

488.P

POSITION

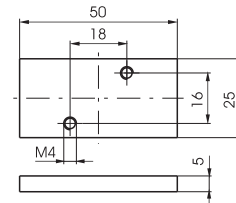
02 = nr. 2 pos. (220 gr)
03 = nr. 3 pos. (290 gr)
04 = nr. 4 pos. (360 gr)
05 = nr. 5 pos. (430 gr)
06 = nr. 6 pos. (500 gr)
07 = nr. 7 pos. (570 gr)
08 = nr. 8 pos. (640 gr)
09 = nr. 9 pos. (710 gr)
10 = nr. 10 pos. (780 gr)

2

Closing plate

Ordering code

488.00



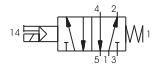
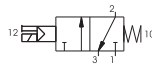
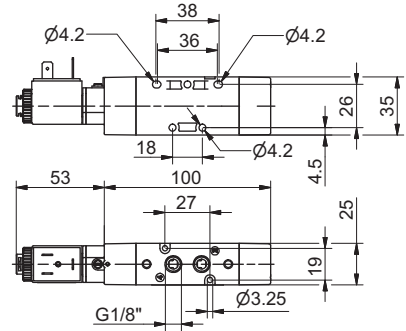
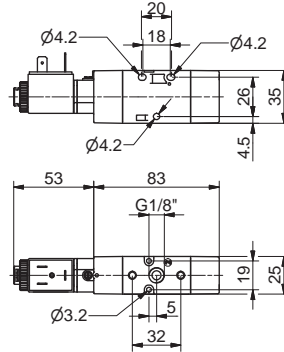
Solenoid - spring

3/2
5/2

Ordering code

T488.T.0.1.V
Self-feeding

- 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

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	620 NI/min	mm 6	M5

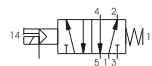
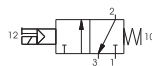
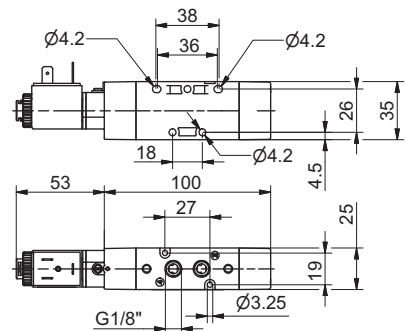
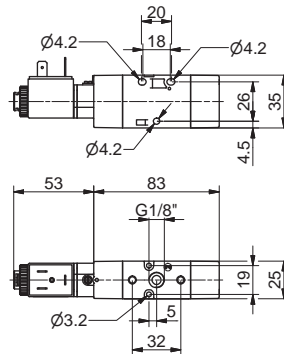
Solenoid - spring

3/2
5/2

Ordering code

T488.T.0.1E.V
External feeding

- 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

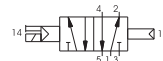
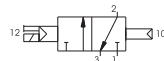
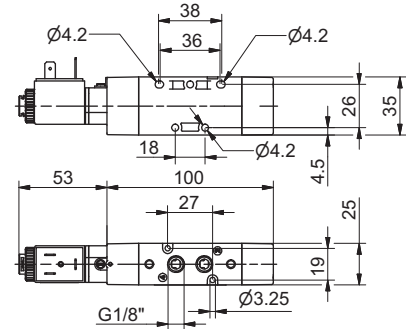
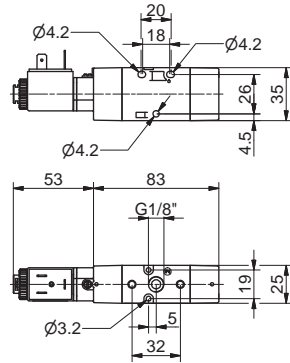
Operational characteristic

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	620 NI/min	mm 6	M5

3/2
5/2

Solenoid - Differential

Ordering code	
T488.1.0.12.V Self-feeding	
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. 160
Minimum working pressure 2,5 bar

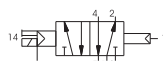
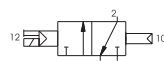
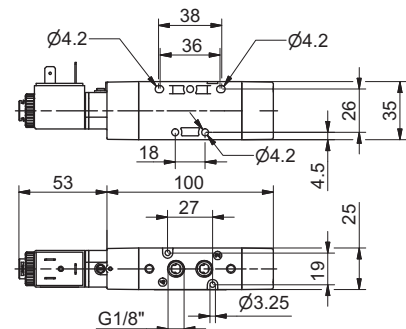
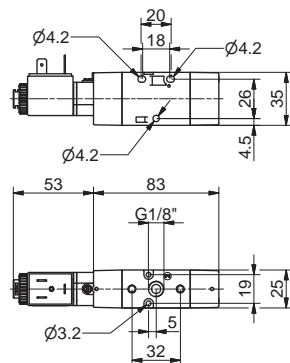
Weight gr. 190
Minimum working pressure 2,5 bar

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	620 NI/min	mm 6

2

Solenoid - Differential

Ordering code	
T488.1.0.12E.V External feeding	
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. 160
Minimum working pressure 2,5 bar

Weight gr. 190
Minimum working 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	620 NI/min	mm 6

3/2
5/2

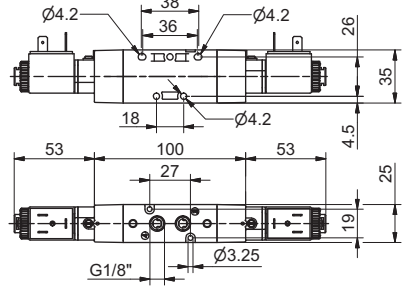
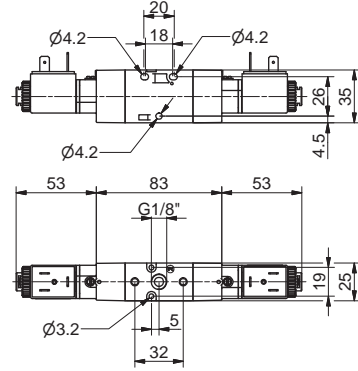
Solenoid - Solenoid

3/2
5/2

Ordering code

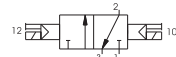
T488.T.0.0.V
Self-feeding

- 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. 250
Minimum working pressure 2 bar

Weight gr. 290
Minimum working pressure 2 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	620 NI/min	mm 6	M5

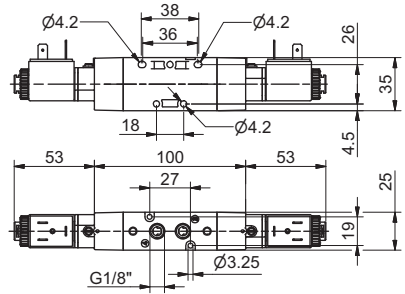
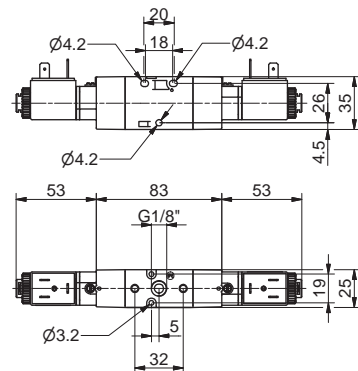
Solenoid - Solenoid

3/2
5/2

Ordering code

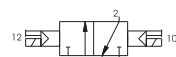
T488.T.0.0E.V
External feeding

- 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. 250
Minimum working pressure 2 bar

Weight gr. 290
Minimum working pressure 2 bar



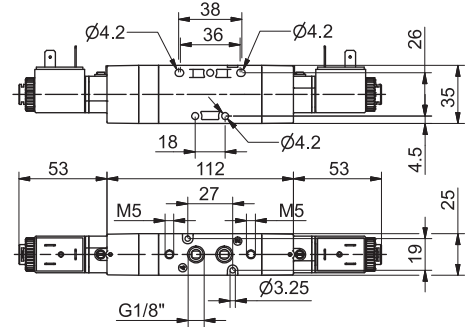
Operational characteristic

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	620 NI/min	mm 6	M5



Solenoid - Solenoid

Ordering code	
T488.53.F.0.0.V Self-feeding	
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)



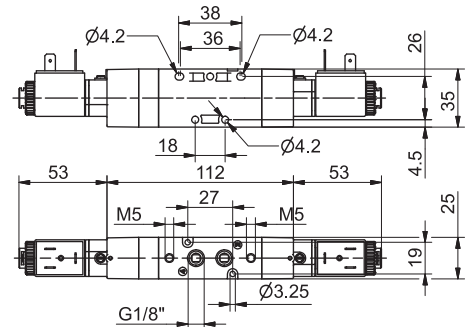
Weight gr. 330
Minimum working pressure 3 bar



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	410 NI/min	mm 6

Solenoid - Solenoid

Ordering code	
T488.53.F.0.0.E.V External feeding	
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)

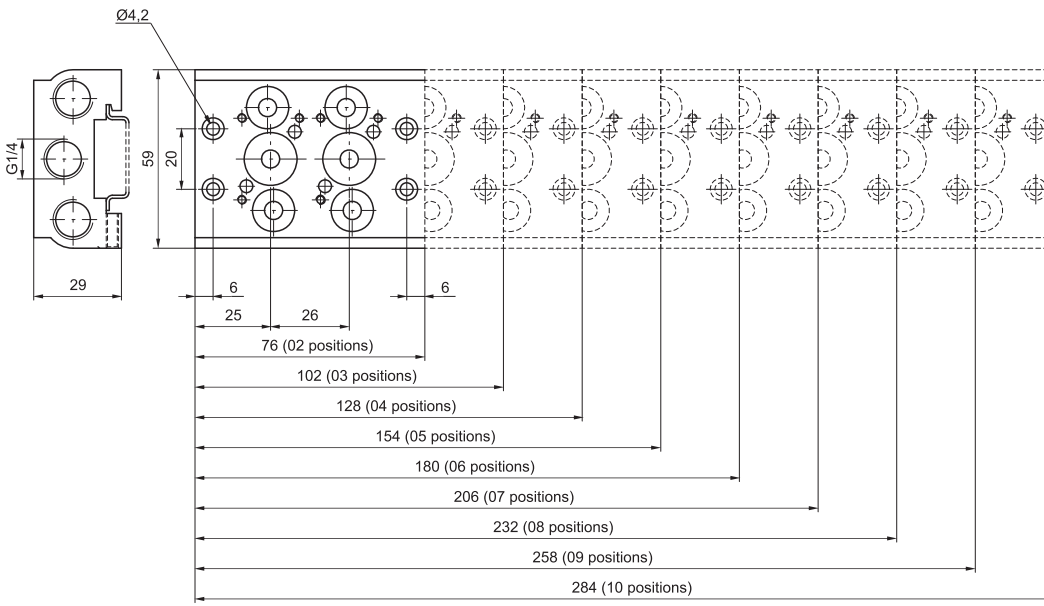


Weight gr. 330
Minimum working pressure 3 bar



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	410 NI/min	mm 6

Collectors



Ordering code

T488.N

N. POSITIONS	
02	= 2 pos. (Weight 220 gr.)
03	= 3 pos. (Weight 290 gr.)
04	= 4 pos. (Weight 360 gr.)
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.)

N

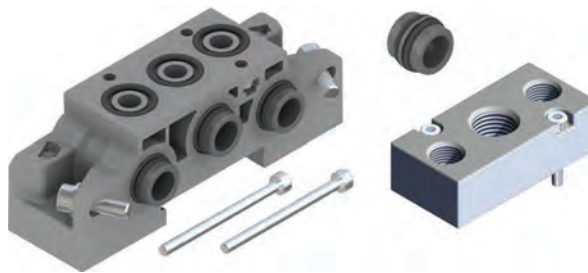
Modular collectors

Ordering code

T488.T

TYPE

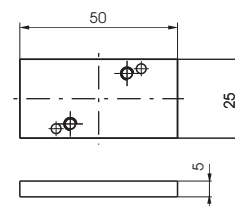
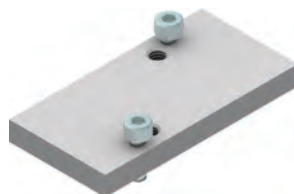
- 01 = Single complete base
- 01K = Complete modular bases (batches of 20 pieces)
- 30K = Hollow bush, complete with O-rings (Nr. 50 pieces)
- 31K = Blank bush, complete with O-rings (Nr. 50 pieces)
- T** 32K = Intermediate air intake with screw (Nr. 5 pieces)
- 33 = Screw to suite solenoid valves (Nr. 50 pieces)
- 34 = Screw for joning bases (Nr. 50 pieces)
- 35 = Washer for screw for joning bases (Nr. 50 pieces)
- 36 = O-ring seal (Nr. 50 pieces)
- 00 = Closing plate (Nr. 1 piece)



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>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							
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>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							
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"

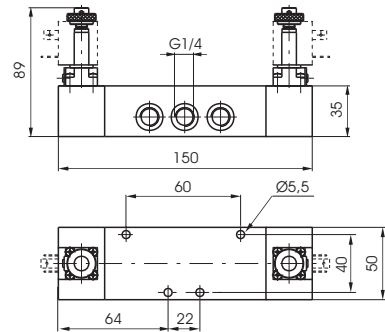
Solenoid - Solenoid	3/2	Ordering code 464.1.0.0.M2	5/2	Solenoid - Solenoid			
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>TYPE</td></tr> <tr><td>32 = 3 ways</td></tr> <tr><td>52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
			TYPE				
32 = 3 ways							
52 = 5 ways							
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"

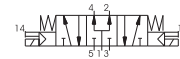
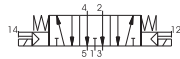
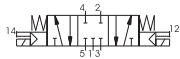
5/3

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 Δp=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

3/2 Solenoid - Spring

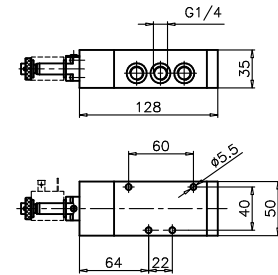
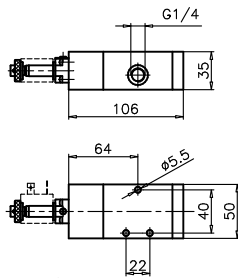
Ordering code

Solenoid - Spring

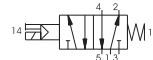
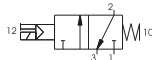
5/2

464/1.0.0.1.M2

TYPE
I 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 (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

3/2 Solenoid - Differential

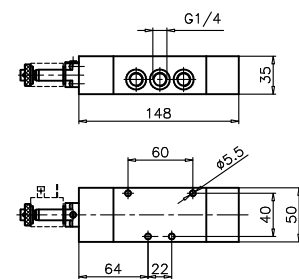
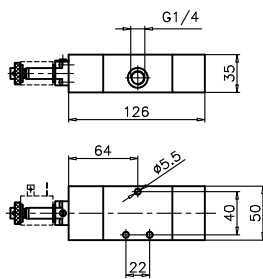
Ordering code

Solenoid - Differential

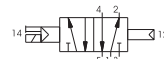
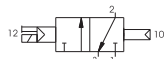
5/2

464/1.0.0.12.M2

TYPE
I 32 = 3 ways
52 = 5 ways



Weight gr. 650
Minimum working pressure 2,5 bar



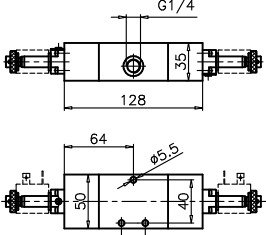
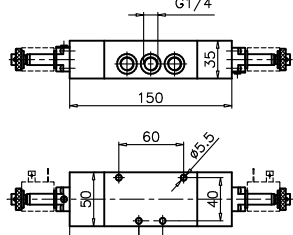
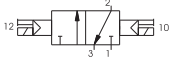




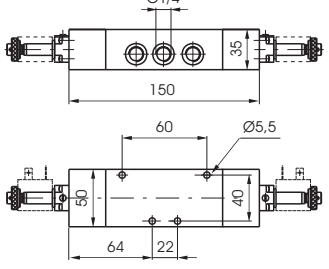
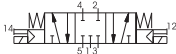
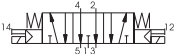
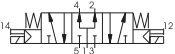
Weight gr. 740
Minimum working pressure 2,5 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C		Flow rate at 6 bar with Δp=1 (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



2

3/2	Solenoid - Solenoid	Ordering code	Solenoid - Solenoid				5/2
		464/1.1.0.0.M2					
		<table border="1"> <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							
							
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 (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"

Solenoid - Solenoid							5/3	
Ordering code								
464/1.53.0.0.M2								
FUNCTION								
31 = Closed centres								
32 = Open centres								
33 = Pressured centres		  						
Weight gr. 820 Minimum working pressure 3 bar		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		1280 NI/min	mm 8	G 1/4"