

SPOOL VALVES

Series 400/500

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" C  US homologated are available (see Series 300).



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).




		Symbol	Description	Code	Max. pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
G 1/8"	3/2		Solenoid - Spring	468.32.0.1.M2	2,5-10 bar	540NI/min	mm 6
			Solenoid - Differential	468.32.0.12.M2			
			Solenoid - Solenoid	468.32.0.0.M2	2-10 bar		
	5/2		Solenoid - Spring	468.52.0.1.M2	2,5-10 bar	540NI/min	mm 6
			Solenoid - Differential	468.52.0.12.M2			
			Solenoid - Solenoid	468.52.0.0.M2	2-10 bar		
	5/3		Solenoid - Solenoid - C.C.	468.53.31.0.0.M2	3-10 bar	410NI/min	mm 6
			Solenoid - Solenoid - O.C.	468.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	468.53.33.0.0.M2			
	3/2		Solenoid - Spring	STD 468/1.32.0.1.M2	2,5-10 bar	540NI/min	mm 6
			Solenoid - Differential	468/1.32.0.12.M2			
			Solenoid - Solenoid	STD 468/1.32.0.0.M2	2-10 bar		
	5/2		Solenoid - Spring	STD 468/1.52.0.1.M2	2,5-10 bar	540NI/min	mm 6
			Solenoid - Differential	468/1.52.0.12.M2			
			Solenoid - Solenoid	STD 468/1.52.0.0.M2	2-10 bar		
	5/3		Solenoid - Solenoid - C.C.	STD 468/1.53.31.0.0.M2	3-10 bar	410NI/min	mm 6
			Solenoid - Solenoid - O.C.	STD 468/1.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	STD 468/1.53.33.0.0.M2			




		Symbol	Description	Code	Max. pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4"	3/2		Solenoid - Spring	464.32.0.1.M2	2,5-10 bar	1360NI/min	mm 8
			Solenoid - Differential	464.32.0.12.M2			
			Solenoid - Solenoid	464.32.0.0.M2			
	5/2		Solenoid - Spring	464.52.0.1.M2	2,5-10 bar		
			Solenoid - Differential	464.52.0.12.M2			
			Solenoid - Solenoid	464.52.0.0.M2			
	5/3		Solenoid - Solenoid - C.C.	464.53.31.0.0.M2	3-10 bar	1280NI/min	
			Solenoid - Solenoid - O.C.	464.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	464.53.33.0.0.M2			
	3/2		Solenoid - Spring	STD 464/1.32.0.1.M2	2,5-10 bar	1360NI/min	
			Solenoid - Differential	464/1.32.0.12.M2			
			Solenoid - Solenoid	STD 464/1.32.0.0.M2			
	5/2		Solenoid - Spring	STD 464/1.52.0.1.M2	2,5-10 bar		
			Solenoid - Differential	464/1.52.0.12.M2			
			Solenoid - Solenoid	STD 464/1.52.0.0.M2			
	5/3		Solenoid - Solenoid - C.C.	STD 464/1.53.31.0.0.M2	3-10 bar	1280NI/min	
			Solenoid - Solenoid - O.C.	STD 464/1.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	STD 464/1.53.33.0.0.M2			

Namur
Interface

M2 | B00 | Use MB-coil (not included)

514.92.00.39.B00 LT	<div>STD</div> 	Operational characteristics					
5/2 Solenoid-Spring (=3/2 NC)		Fluid	Flow rate at 6 bar with Δp=1 (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C
		Filtered and lubricated air	1100	10	8	G1/4"	-30 ÷ +50























514.92.00.35.B00 LT	<div>STD</div> 	Operational characteristics					
5/2 Solenoid-Solenoid (=3/2 NC)		Fluid	Flow rate at 6 bar with Δp=1 (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C
		Filtered and lubricated air	1100	10	8	G1/4"	-30 ÷ +50



SOLENOID VALVES

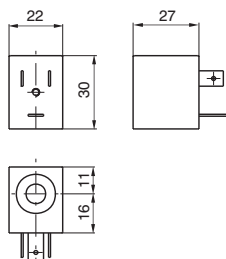
(series 400, section 2)

PNEUMAX

		Symbol	Description	Code	Max. pressure	Flow at 6 bar, Δp=1	Orifice size	
G 1/2"  	3/2		Solenoid - Spring	452.32.0.1.M2	2,5-10 bar	3500NI/min	mm 15	
			Solenoid - Differential	452.32.0.12.M2				
			Solenoid - Solenoid	452.32.0.0.M2	2-10 bar			
	5/2		Solenoid - Spring	452.52.0.1.M2	2,5-10 bar			
			Solenoid - Differential	452.52.0.12.M2				
			Solenoid - Solenoid	452.52.0.0.M2	2-10 bar			
	5/3		Solenoid - Solenoid - C.C.	452.53.31.0.0.M2	3-10 bar	3000NI/min		
			Solenoid - Solenoid - O.C.	452.53.32.0.0.M2				
			Solenoid - Solenoid - P.C.	452.53.33.0.0.M2				
  	3/2		Solenoid - Spring	STD 452/1.32.0.1.M2	2,5-10 bar	3500NI/min	mm 15	
			Solenoid - Differential	452/1.32.0.12.M2	2-10 bar			
			Solenoid - Solenoid	STD 452/1.32.0.0.M2	2,5-10 bar			
	5/2		Solenoid - Spring	STD 452/1.52.0.1.M2	2,5-10 bar	3000NI/min		
			Solenoid - Differential	452/1.52.0.12.M2	2-10 bar			
			Solenoid - Solenoid	STD 452/1.52.0.0.M2				
	5/3		Solenoid - Solenoid - C.C.	STD 452/1.53.31.0.0.M2	3-10 bar	3000NI/min		
			Solenoid - Solenoid - O.C.	STD 452/1.53.32.0.0.M2				
			Solenoid - Solenoid - P.C.	STD 452/1.53.33.0.0.M2				

Coil

Coil type U1



Weight 54 gr.

* Use only with M2/9

Ordering code	Available voltages Coils	
MB 4	12 D.C.	STD
MB 5	24 D.C.	STD
MB 6	48 D.C.	STD
MB 9*	24 D.C. (2 Watt) (Direct current, low consumption)	
MB 17	24/50	STD
MB 21	48/50	STD
MB 22	110/50	STD
MB 24	230/50	STD
MB 37	24/60	Alternating current 60 Hz
MB 39	110/60	
MB 41	230/60	
MB 56	24/50-60	Alternating current 50/60 Hz
MB 57	110/50-60	
MB 58	230/50-60	
MB 66	24/50-60	Alternating current (low consumption) 50/60 Hz
MB 67	110/50-60	
MB 68	230/50-60	

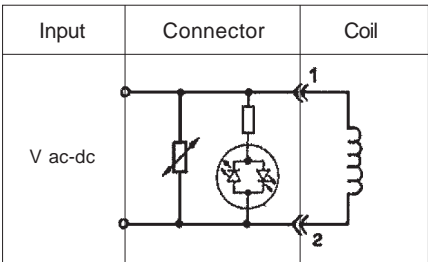
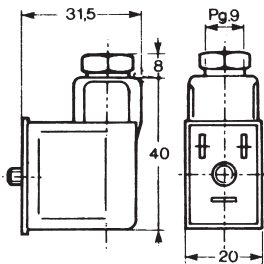


Connector for coil (DIN 43650)



Ordering code	Supply voltage until	Coil type	Protection class	Remarks
MP1	0-250V~/300V=	U1	IP 65	CONNECTOR
MP1-LED-24V	24V	U1	IP 65	+LED
MP1-LED-24V-5M	24V	U1	IP 65	+LED+CABLE
MP1-LED-230V	230V	U1	IP 65	+LED

Electronic circuit for MP-LED



Bipolar LED and VDR to protect supply and switch.
(The energy in the coil is limited by the VDR).
Voltage: 24 or 230V.





PNEUMAX

Solenoid - Spring

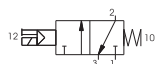
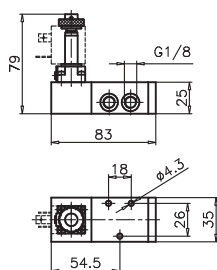
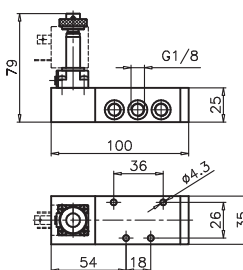
3/2

Ordering code

468.T.0.1.M2

5/2

Solenoid - Spring


Weight gr. 240
Minimum working pressure 2,5 bar

Weight gr. 240
Minimum working pressure 2,5 bar

Operational characteristics

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	-5 ÷ +50	540 NI/min	mm 6	G 1/8"

Solenoid - Differential

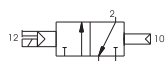
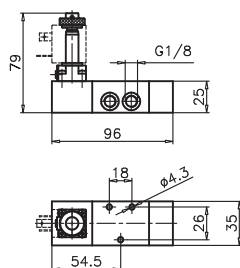
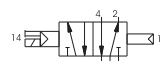
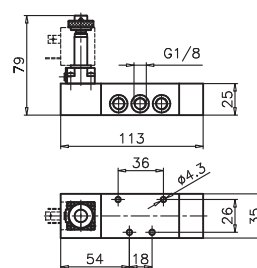
3/2

Ordering code

468.T.0.12.M2

5/2

Solenoid - Differential


Weight gr. 280
Minimum working pressure 2,5 bar

Weight gr. 320
Minimum working pressure 2,5 bar

Operational characteristics

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	-5 ÷ +50	540 NI/min	mm 6	G 1/8"

Solenoid - Solenoid

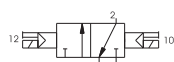
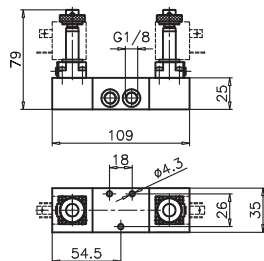
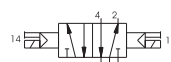
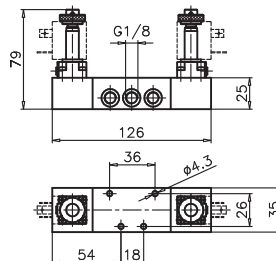
3/2

Ordering code

468.T.0.0.M2

5/2

Solenoid - Solenoid


Weight gr. 370
Minimum working pressure 2 bar

Weight gr. 410
Minimum working pressure 2 bar

Operational characteristics

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	-5 ÷ +50	540 NI/min	mm 6	G 1/8"



Solenoid - Solenoid

5/3

Ordering code

468.53.0.0.0.M2

FUNCTION

F

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

Weight gr. 420
Minimum working pressure 3 bar

Operational 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	-5 ÷ +50	410 NI/min	mm 6	G 1/8"

3/2 Solenoid - Spring

Ordering code

Solenoid - Spring

5/2

468/1.0.0.1.M2

TYPE

32=3 ways
52=5 ways

Weight gr. 240
Minimum working pressure 2,5 bar

Operational 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	-5 ÷ +50	540 NI/min	mm 6	G 1/8"

3/2 Solenoid - Differential

Ordering code

Solenoid - Differential

5/2

468/1.0.0.12.M2

TYPE


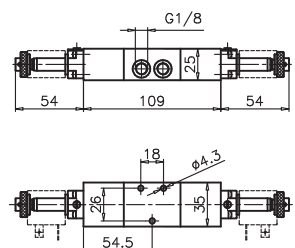

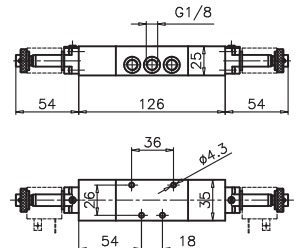
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52=5 ways


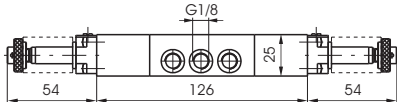
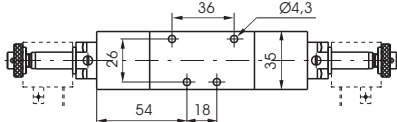
Weight gr. 280
Minimum working pressure 2,5 bar

Operational 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	-5 ÷ +50	540 NI/min	mm 6	G 1/8"

2

3/2	Solenoid - Solenoid	Ordering code	Solenoid - Solenoid	5/2	
  Weight gr. 370 Minimum working pressure 2 bar		468/1.1.0.0.M2	  Weight gr. 410 Minimum working pressure 2 bar		
		TYPE			
		32=3 ways			
		52=5 ways			
Operational 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	-5 ÷ +50	540 NI/min	mm 6	G 1/8"

Solenoid - Solenoid		5/3			
Ordering code					
468/1.53.F.0.0.M2					
FUNCTION					
31=Closed centres 32=Open centres 33=Pressured centres					
Weight gr. 420 Minimum working pressure 3 bar		 			

Solenoid - Spring

3/2

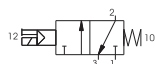
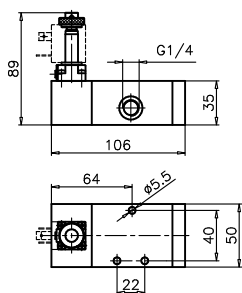
Ordering code

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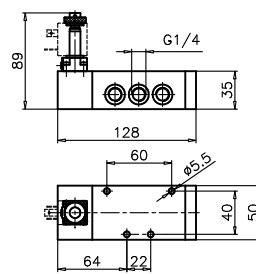
TYPE
32=3 ways
52=5 ways

5/2

Solenoid - Spring



Weight gr. 530
Minimum working pressure 2,5 bar



Weight gr. 625
Minimum working pressure 2,5 bar

Operational characteristics

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	10	-5 ÷ +50	1360 Nl/min	mm 8	G 1/4"

Solenoid - Differential

3/2

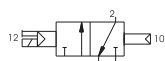
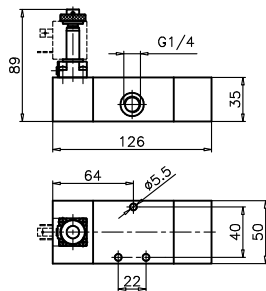
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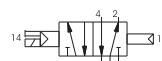
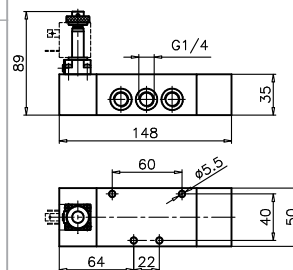
TYPE
32=3 ways
52=5 ways

5/2

Solenoid - Differential



Weight gr. 650
Minimum working pressure 2,5 bar



Weight gr. 740
Minimum working pressure 2,5 bar

Operational characteristics

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	10	-5 ÷ +50	1360 Nl/min	mm 8	G 1/4"

Solenoid - Solenoid

3/2

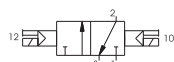
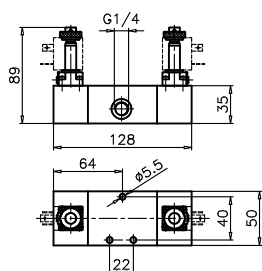
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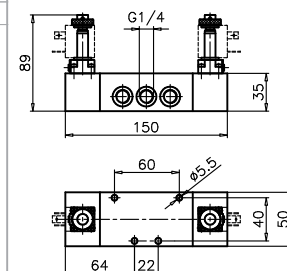
TYPE
32=3 ways
52=5 ways

5/2

Solenoid - Solenoid



Weight gr. 730
Minimum working pressure 2 bar



Weight gr. 820
Minimum working pressure 2bar

Operational characteristics

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	10	-5 ÷ +50	1360 Nl/min	mm 8	G 1/4"



Solenoid - Solenoid

5/3

Ordering code

464.53.0.0.0.M2

FUNCTION

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

Weight gr. 820
Minimum working pressure 3 bar

Operational 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	-5 ÷ +50	1280 NI/min	mm 8	G 1/4"

3/2 Solenoid - Spring

Ordering code

Solenoid - Spring

5/2

464/1.0.0.1.M2

TYPE

32=3 ways
52=5 ways

Weight gr. 530
Minimum working pressure 2,5 bar

464/1.0.0.1.M2

TYPE

32=3 ways
52=5 ways

Weight gr. 625
Minimum working pressure 2,5 bar

Operational 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	-5 ÷ +50	1360 NI/min	mm 8	G 1/4"

3/2 Solenoid - Differential

Ordering code

Solenoid - Differential

5/2

464/1.0.0.12.M2

TYPE

32=3 ways
52=5 ways

Weight gr. 650
Minimum working pressure 2,5 bar

464/1.0.0.12.M2

TYPE

32=3 ways
52=5 ways

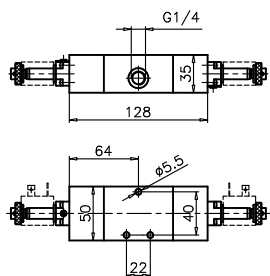
Weight gr. 740
Minimum working pressure 2,5 bar

Operational 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	-5 ÷ +50	1360 NI/min	mm 8	G 1/4"

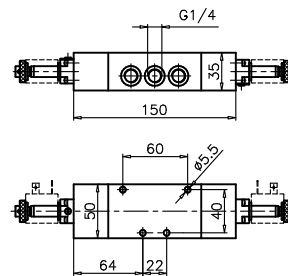
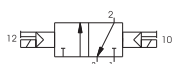
3/2	Solenoid - Solenoid	Ordering code	Solenoid - Solenoid	5/2
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464/1.1.0.0.M2

T
TYPE
32=3 ways
52=5 ways



Weight gr. 730
Minimum working pressure 2 bar



Weight gr. 820
Minimum working pressure 2 bar

Operational characteristics

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	-5 ÷ +50	1360 NI/min	mm 8	G 1/4"

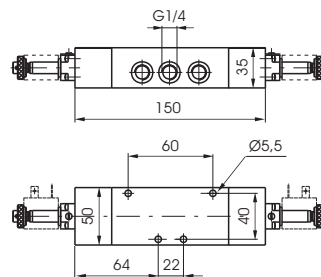
Solenoid - Solenoid

5/3

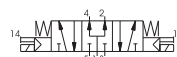
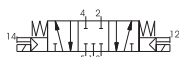
Ordering code

464/1.53.F.0.0.M2

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



Weight gr. 820
Minimum working pressure 3 bar



Operational characteristics

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	-5 ÷ +50	1280 NI/min	mm 8	G 1/4"

NAMUR valves are 5/2 and 4/2 valves and electrovalves, piloted electrically or pneumatically, utilised primarily to operate rotary actuators and wherever there is a **NAMUR** standard installation plan.

The product is available in 5/2 and 4/2 versions or in a universal version which can be configured by the end user by replacing the fitting plate and adding a stopper.

The product is classified for use in potentially explosive atmospheres (Directive 2014/34/EU).

NAMUR valves have been developed using the latest, technical design solutions which guarantee flexibility and an increased flow rate capacity exceeding that of traditional, spool valves.

In addition, they have been produced with innovative materials which guarantee increased performance.

NOTE :

"Although accurately described, the 4/2 valve actually functions as a 3/2 normally closed valve and should be used as such."

"NAMUR" interface dimensions:
according to standard
(VDI/VDE 3847 July 2003)



Construction characteristic

Body	Aluminium
Operators	Technopolymer
Spools	Steel
Seals	Nitrile rubber
Spacers	Technopolymer
Springs	Stainless Steel
Screw	Zinc coated Steel / Stainless steel

IMPORTANT: Version 515 (available only in 5/2), differs from version 514 because it is supplied without a plate.

Certifications available:

SOLENOID VALVES WITH XMB or XMC 3GD COIL

: C E II 3G Ex h IIB T4 Gc X
 : C E II 3D Ex h IIIC T120°C Dc X IP65

MECHANICAL AND PNEUMATIC VALVES WITHOUT COILS

: C E II 2G Ex h IIB T5 Gc X
 : C E II 2D Ex h IIIC T96°C Dc X IP65

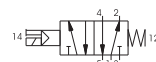
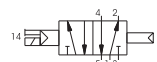
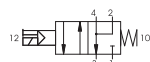
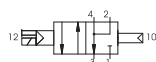
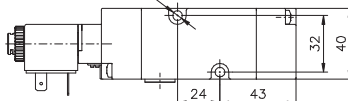
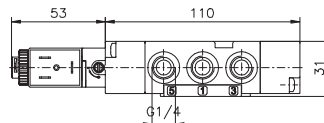
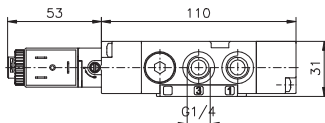
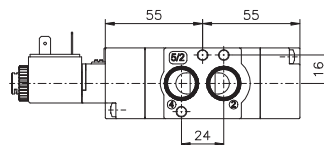
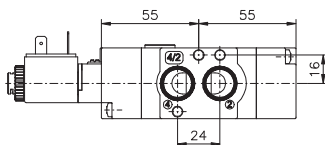
Solenoid - Differential / Solenoid - Spring

4/2
5/2

Ordering code

M514.F.00.V.T.O

M	MODEL
	= STANDARD Valve
	X=ATEX Valve
F	FUNCTION
	42=4 ways
	52=5 ways
V	VERSION
	36=Solenoid - Differential
	39=Solenoid - Spring
	VOLTAGE
	B04=12 VDC
	B05=24 VDC
	B09=24 VDC (2W)
	B56=24V (50-60 Hz)
	B57=110V (50-60 Hz)
	B58=230 V (50-60 Hz)
	C04=12 VDC
	C05=24 VDC
	C09=24 VDC (2W)
	C56=24V (50-60 Hz)
	C57=110V (50-60 Hz)
	C58=230 V (50-60 Hz)
	F04=12 VDC
	F05=24 VDC
	F56=24V (50-60 Hz)
	F57=110V (50-60 Hz)
	F58=230 V (50-60 Hz)
T	TEMPERATURE OPTIONS
	= STANDARD Valve (-10 ÷ +50)
	= ATEX Valve (-20 ÷ +40)
	LT=Low temperature (-30 ÷ +50)



Weight g. 325

"LT" and "ATEX" Versions are not available with MF coils
Weight g. 330
Minimum pilot pressure 2,5 bar
Maximum fixing torque for fittings 9 N/m

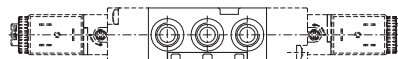
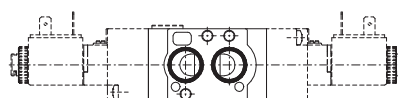
Code Example	MODEL	Operational characteristics					
		Fluid	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C
514.F.00.V.T	STANDARD Valve	Filtered and lubricated air	1100	10	8	G1/4"	-10 ÷ +50
514.F.00.V.T.LT	LT "Low Temperature" Valve						-30 ÷ +50
X514.F.00.V.T	ATEX Valve						-20 ÷ +40

Universal kit

Ordering code

M514.92.00.V.T.O

M	MODEL
	= STANDARD Valve
	X=ATEX Valve
V	VERSION
	16=Pneumatic - Differential
	18=Pneumatic - Pneumatic
	19=Pneumatic - Spring
	35=Solenoid - Solenoid
	36=Solenoid - Differential
	39=Solenoid - Spring
	VOLTAGE
	B04=12 VDC
	B05=24 VDC
	B09=24 VDC (2W)
	B56=24V (50-60 Hz)
	B57=110V (50-60 Hz)
	B58=230 V (50-60 Hz)
	C04=12 VDC
	C05=24 VDC
	C09=24 VDC (2W)
	C56=24V (50-60 Hz)
	C57=110V (50-60 Hz)
	C58=230 V (50-60 Hz)
	F04=12 VDC
	F05=24 VDC
	F56=24V (50-60 Hz)
	F57=110V (50-60 Hz)
T	TEMPERATURE OPTIONS
	= STANDARD Valve (-10 ÷ +50)
	= ATEX Valve (-20 ÷ +40)
	LT=Low temperature (-30 ÷ +50)



"LT" and "ATEX" Versions are not available with MF coils
Weight g. 405
Minimum pilot pressure 2,5 bar
Maximum fixing torque for fittings 9 N/m

To change a 5/2 valve into a 4/2:
Simply replace the bottom plate with the one included in the universal kit (cod. 514.92....) and by plugging port 5

Code Example	MODEL	Operational characteristics					
		Fluid	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C
514.92.00.V.T	STANDARD Valve	Filtered and lubricated air	1100	10	8	G1/4"	-10 ÷ +50
514.92.00.V.T.LT	LT "Low Temperature" Valve						-30 ÷ +50
X514.92.00.V.T	ATEX Valve						-20 ÷ +40

Solenoid - Spring

3/2
5/2

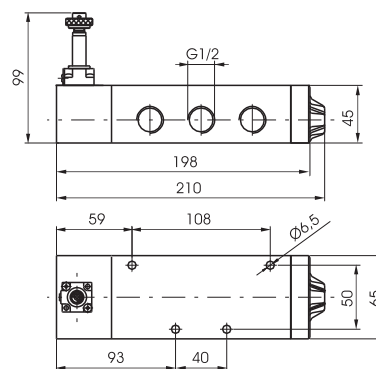
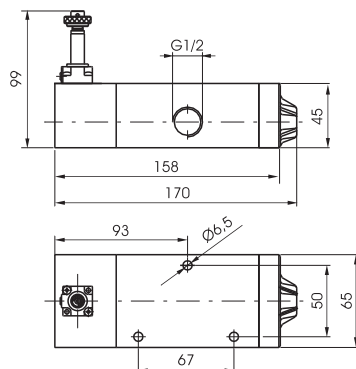
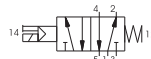
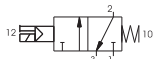
Ordering code

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 characteristics

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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"

Solenoid - Differential

3/2
5/2

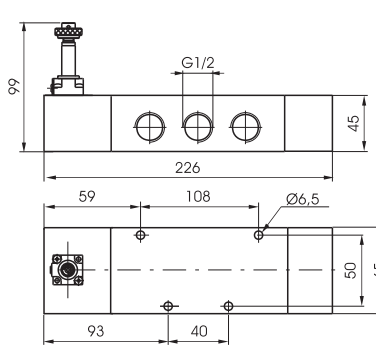
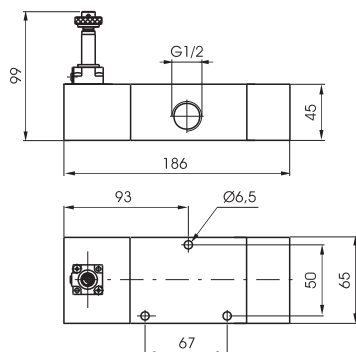
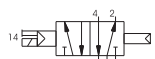
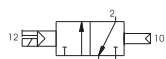
Ordering code

452.1.0.12.M2

TYPE

32=3 ways

52=5 ways


Weight gr. 1422
Minimum working pressure 2,5 bar

Weight gr. 1692
Minimum working pressure 2,5 bar

Operational characteristics

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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"

Solenoid - Solenoid

3/2
5/2

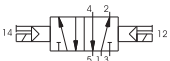
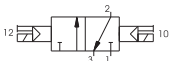
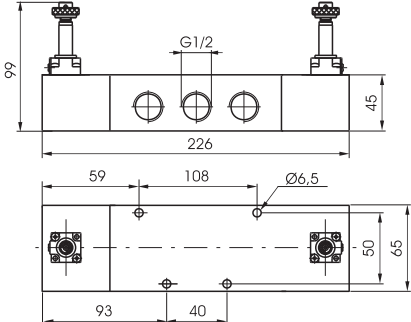
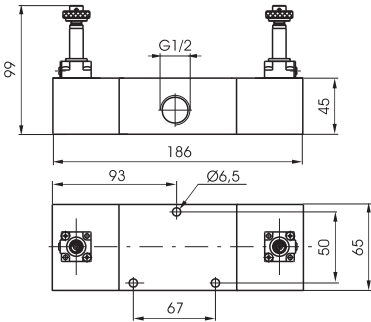


Ordering code

452.1.0.0.M2

TYPE

32=3 ways

52=5 ways



Weight gr. 1744
Minimum working pressure 2 bar

Weight gr. 1744
Minimum working pressure 2 bar

Operational 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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"

Solenoid - Solenoid

5/3

Ordering code

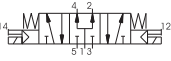
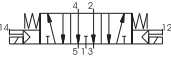
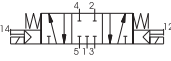
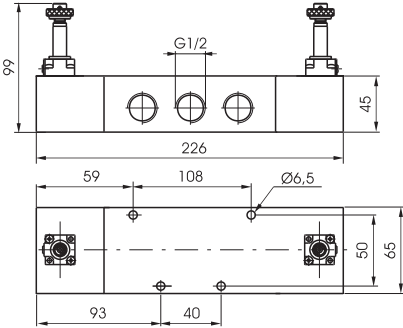

452.53.F.0.0.M2

FUNCTION

31=Closed centres

32=Open centres

33=Pressured centres



Weight gr. 1744
Minimum working pressure 3 bar

Operational 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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"

Solenoid - Spring

3/2
5/2

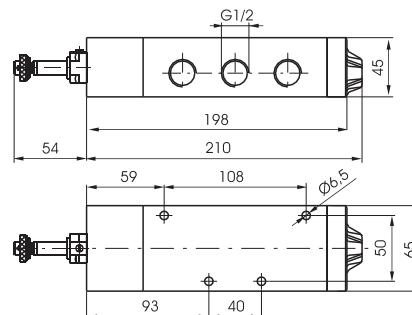
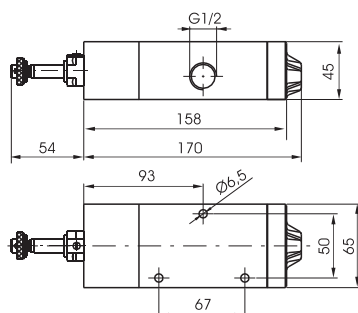
Ordering code

452/1.1.0.1.M2

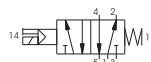
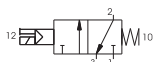
TYPE

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 characteristics

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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"

Solenoid - Differential

3/2
5/2

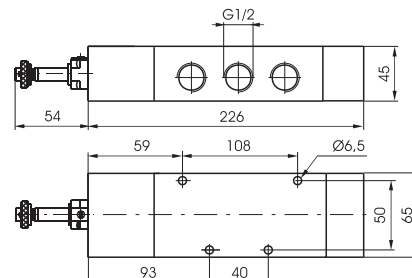
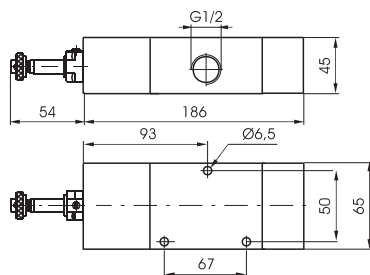
Ordering code

452/1.1.0.12.M2

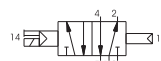
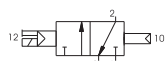
TYPE

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 characteristics

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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"

Solenoid - Solenoid

3/2
5/2



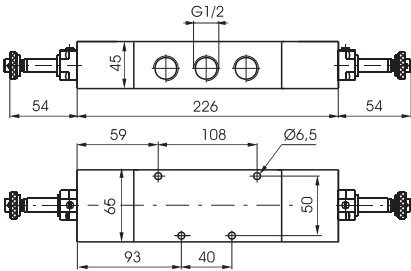
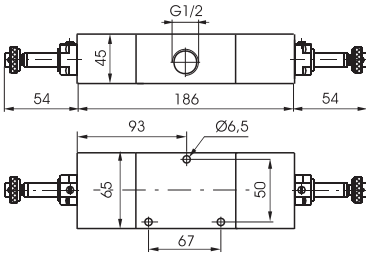


Ordering code

452/1.1.0.0.M2

TYPE

32=3 ways

52=5 ways



Weight gr. 1830

Minimum working pressure 2 bar

Weight gr. 2100

Minimum working pressure 2 bar

Operational 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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"

Solenoid - Solenoid

5/3

Ordering code

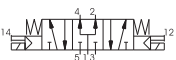

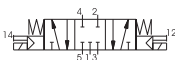
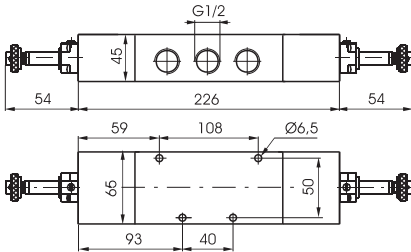

452/1.53.F.0.0.M2

FUNCTION

31=Closed centres

32=Open centres

33=Pressured centres



Weight gr. 2100

Minimum working pressure 3 bar

Operational 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	-5 ÷ +50	3500 NI/min	mm 15	G 1/2"