



VALVES AND SOLENOID VALVES WITH "NAMUR" INTERFACE COMPONENTS AND SISTEMS FOR AUTOMATION

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Pneumax S.p.A. Smart Technologies and Human Competence

Founded in 1976, **PNEUMAX S.p.A.** is today one of the leading, international manufacturers of components and systems for industrial and process automation, it is at the fore front of a group comprised of 23 companies, with over 660 employees worldwide.

Ongoing investment in research and development has allowed **Pneumax** to continually expand its range of standard products and customised solutions, adding to the well-established pneumatic technology, is a range of electric drive actuators and fluid control components.



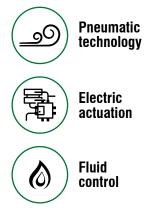






The ability to provide various technologies and solutions for each of our clients applications is the main objective of our company, making us the ideal strategic partner.

What defines us is the "Pneumax Business Attitude", born out of the capacity to combine industry sectors, technology and our application skills via client collaboration with our business sector and product sector specialists. This represents the main distinguishing factor of what **Pneumax** has to offer.





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SOLENOID VALVES Series 514/N WITH "Namur" INTERFACE

General	4
Solenoid valves 3/2-5/2, G1/4":	
Solenoid - Spring, Solenoid - Differential, Solenoid - Solenoid	5



VALVES AND SOLENOID VALVES Series T514 "TECNO-NAMUR"

VALVES AND SOLENOID VALVES SerieS 514 - 515 "NAMUR"

General	6
Valves and Solenoid valves 4/2-5/2, G1/4":	
Pneumatic - Differential / Pneumatic - Pneumatic / Pneumatic - Spring	
Solenoid - Solenoid	7
Solenoid - Differential / Solenoid - Spring, Universal kit	8



General	
Valves and Solenoid valves 4/2-5/2, G1/4":	
Pneumatic - Differential / Pneumatic - Pneumatic / Pneumatic - Spring	
Solenoid - Solenoid	11
Solenoid - Differential / Solenoid - Spring, Universal kit	
Valves and Solenoid valves 5/2, G1/4":	
Pneumatic - Differential / Pneumatic - Pneumatic / Pneumatic - Spring	
Solenoid - Solenoid	
Solenoid - Differential / Solenoid - Spring	

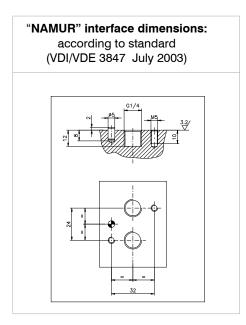


These are 2 stage valves actuated electro-pneumatically. A serie 300 directly operated solenoid valve actuates pneumatically the principal power distributor.

Everything is well integrated in a practical configuration that also permits applications where there is limited space. Used primarily to operate rotary actuators and wherever there is a "**NAMUR**" standard installation plan.

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 1/4" with identical pneumatic characteristics that are, however, actuated electrically. They have a balanced spool, insentive to presence or absence of pressure. They are constructed in 3 and 5 way with 1 solenoid (monostable) or 2 solenoids (bistable).



Construction characteristic

Body	Aluminium
Operators	Aluminium
Spools	Nickel plated steel
Seals	NBR
Spacers	Technopolymer
Springs	Spring steel
Screw	Zinc coated 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.

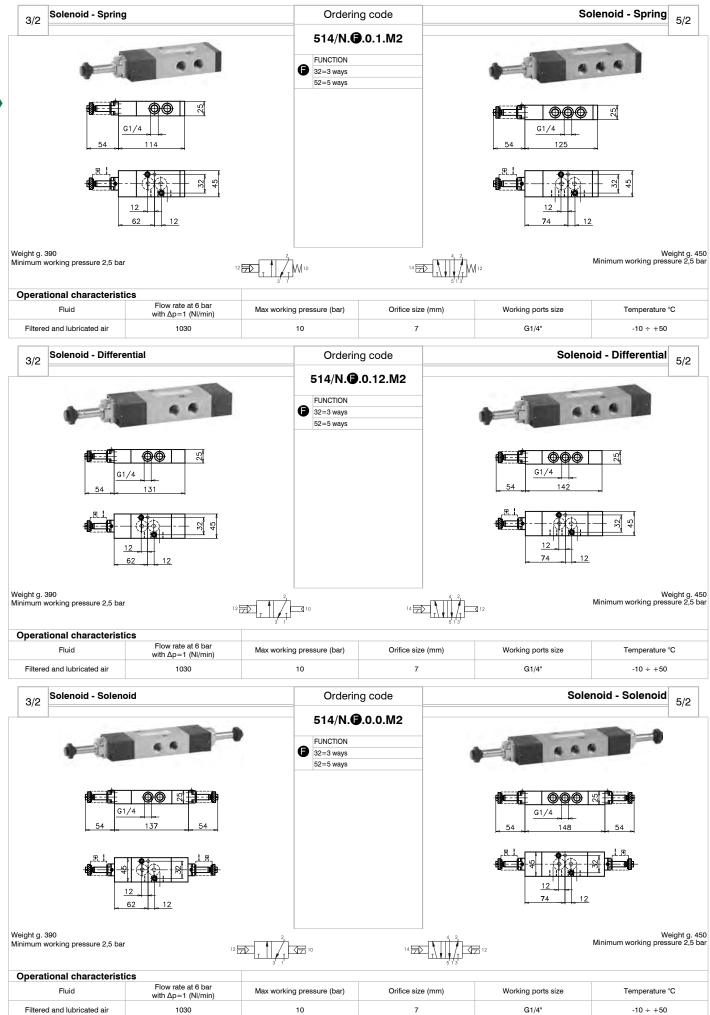
Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature and that exhaust ports 3 & 5 are protected against the possible ingress of dirt or debris.

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).



3/2-5/2, G1/4"





TECNO-NAMUR are 5/2 and 4/2 valves are solenoid valves pneumatically or electrically actuated. They are used in industrial automation applications or whenever a **NAMUR** mounting plane is available.

TECNO NAMUR is available in 5/2, 4/2 and all-purposes versions. The final user can switch from one version to another by simply changing interface plate and adding/removing a plug.

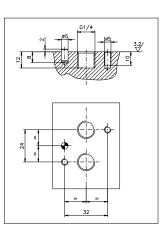
TECNO-NAMUR valves are produced using the most up to date technical features, granting flexible design and elevated characteristics over standard products.

Superior performance is further enhanced by the use of innovative materials of construction.

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)

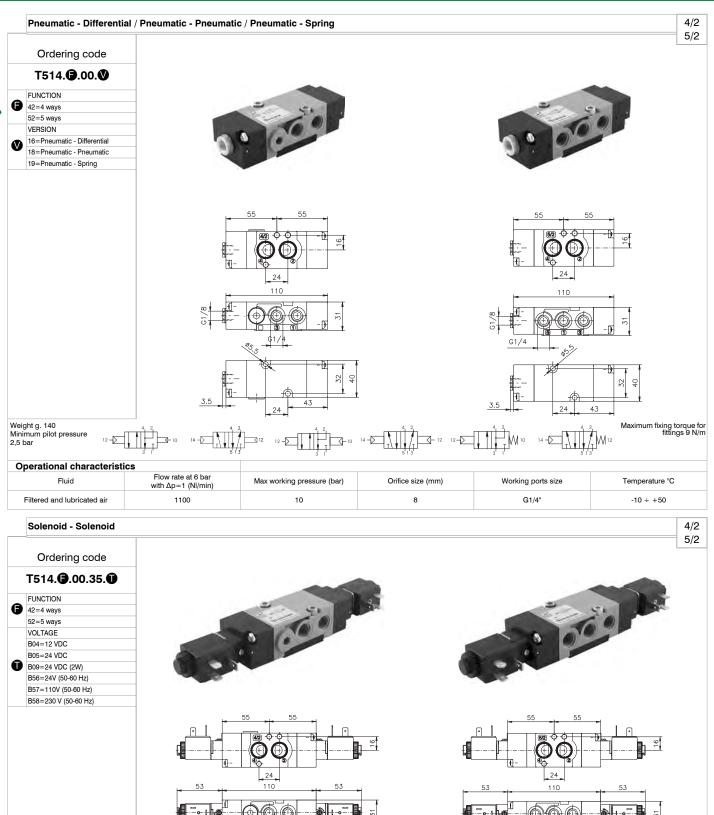




Construction characteristic

Body	Technopolymer
Operators	Technopolymer
Spools	Nickel plated steel
Seals	Nitrile rubber
Spacers	Technopolymer
Springs	Stainless Steel
Screw	Zinc coated Steel





Weight g. 250 Minimum pilot pressure 2,5 bar Maximum fixing torque for fitting

Weight 9, 250 Minimum pilot pressure 2,5 bar Maximum fixing torque for fittings 9 N/m				12	
Operational characteristi	cs				
Fluid	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C
Filtered and lubricated air	1100	10	8	G1/4"	-10 ÷ +50

G1/4

24

45.⁵

5

9

¢1/

24

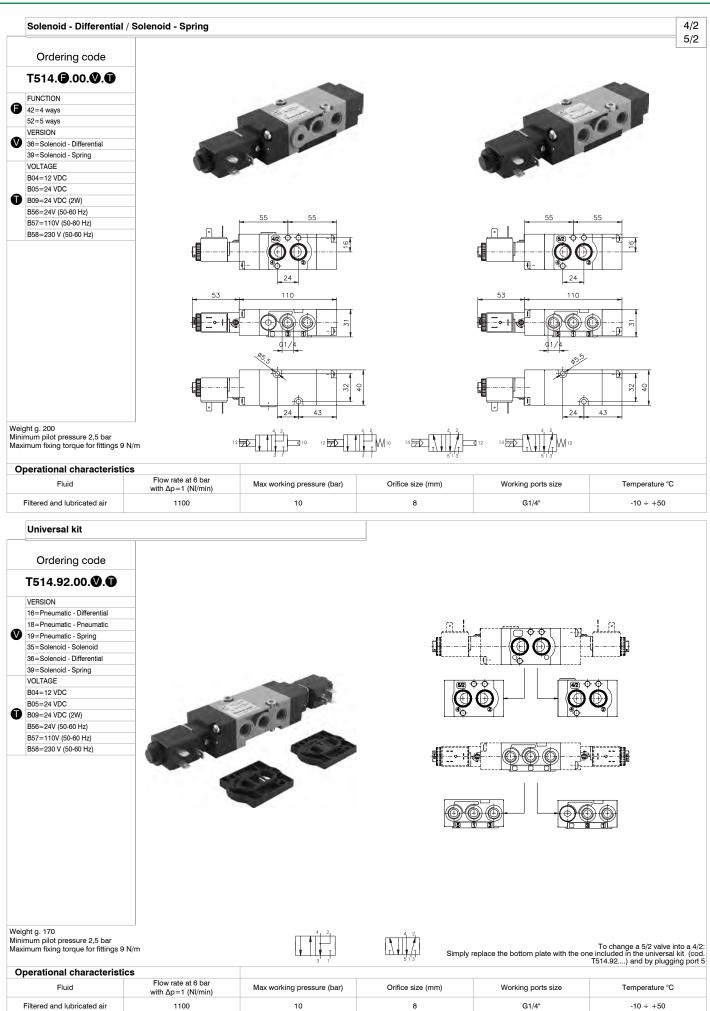
65.5

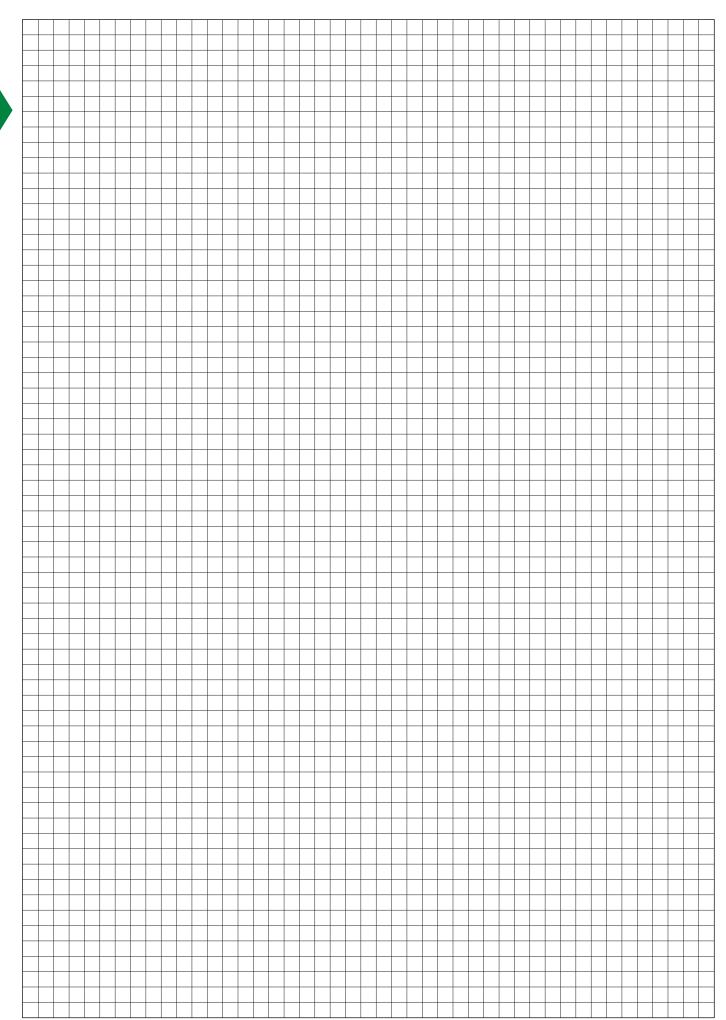
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice.





AIR DISTRIBUTION





PNEUMAX



AIR DISTRIBUTION

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 :	"NAMUR" interface dimensions:
"Although accurately described, the 4/2 valve actually functions as a 3/2 normally closed valve and should be used as such."	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€ ⓑ II 3G Ex h IIB T4 Gc X C€ ⓒ II 3D Ex h IIIC T120°C Dc X IP65

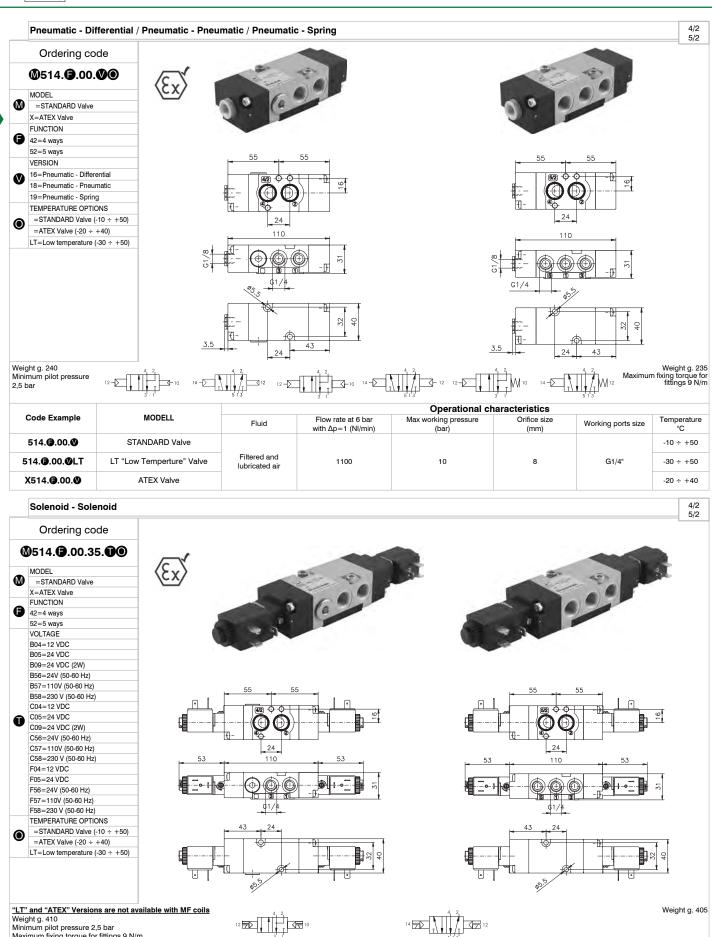
MECHANICAL AND PNEUMATIC VALVES WITHOUT COILS



C€ ⓑ II 2G Ex h IIB T5 Gc X C€ ⓑ II 2D Ex h IIIC T96℃ Dc X IP65



AIR DISTRIBUTION



"LT" and "ATEX" Versions are not available with MF coils Weight g. 410 Minimum pilot pressure 2,5 bar

Maximum	fixing	torque	for	fittings	9	N/m

		Operational characteristics						
Code Example	MODELL	Fluid	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C	
514. 3.00.	STANDARD Valve	Filtered and lubricated air					-10 ÷ +50	
514. @ .00. @ LT	LT "Low Temperture" Valve			1100	10	8	G1/4"	-30 ÷ +50
X514. @ .00. @	ATEX Valve						-20 ÷ +40	



[
							4/0
Solenoid - Diffe	erential / Solenoid - Spring						4/2 5/2
Ordering co	de						
Ø 514. 9 .00. (0.00						
MODEL	(X3)				-		
=STANDARD Valve			100		2.0	19	
X=ATEX Valve FUNCTION			0			6021	
42=4 ways						0	
52=5 ways					lan!		
VERSION 36=Solenoid - Differen	ntial						
39=Solenoid - Spring							
VOLTAGE							
B04=12 VDC B05=24 VDC		55	55 .		55	55	
B09=24 VDC (2W)					ຈ 🛛 🗖		
B56=24V (50-60 Hz)	"		- <u>P</u>	-			
B57=110V (50-60 Hz) B58=230 V (50-60 Hz)				te			
C04=12 VDC		tt- 1°⊕- °			<u>tt-</u>	4	
C05=24 VDC C09=24 VDC (2W)							
C56=24V (50-60 Hz)		53 110			53 11	-	
C57=110V (50-60 Hz)				, E			
C58=230 V (50-60 Hz F04=12 VDC				也			
F05=24 VDC		G1/4	····		G1/4		
F56=24V (50-60 Hz)		\$5.5			- 	15.5	
F57=110V (50-60 Hz) F58=230 V (50-60 Hz)			-0-1-1	_			F
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LT=Low temperature		24	43		-2	4 43	
" and "ATEX" Version ight g. 330	ns are not available with MF coils	4 2	L. L		4 2		Weight g. 325
imum pilot pressure 2						M12	
ximum fixing torque fo	r fittings 9 N/m	3 î		3 i	5'1'3'	5'1'3'	
Code Example	MODELL	Eluia	Flow rate at 6 bar	Operational ch			Temperature
		Fluid	with $\Delta p=1$ (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	0°
514. @ .00. Ø	STANDARD Valve	Filtered and					-10 ÷ +50
14. @ .00. 00 LT	LT "Low Temperture" Valve	lubricated air	1100	10	8	G1/4"	-30 ÷ +50
(514. @ .00. ©@	ATEX Valve						-20 ÷ +40
Universal kit							
Ordering cc 	de						
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MODEL =STANDARD Valve X=ATEX Valve VERSION 16=Pneumatic - Differ 18=Pneumatic - Spring 35=Solenoid - Differer 39=Solenoid - Differer 30=Solenoid - Differer 50=24 VDC 50=24 VDC 55=110V (50-60 Hz) 57=110V (50-60 Hz) 57=110V (50-60 Hz) 57=110V (50-60 Hz) TEMPERATURE OPTI =STANDARD Valve (-20 ÷ LT=Low temperature "and "ATEX" Version ght g. 405 imum pilot pressure 2 dirum fixing torque for Code Example	ential matic g id thial DNS 10 + +50) +40) (30 + +50) +40) (30 + +50) +5 bar r fritings 9 N/m	Fluid	Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Operational ch			Temperature °C
MODEL =STANDARD Valve X=ATEX Valve VERSION 16=Pneumatic - Differ 18=Pneumatic - Spring 36=Solenoid - Solenoid -	ential matic g id thial DNS 10 + +50) +40) (30 + +50) has are not available with MF coils (5 bar r fritings 9 N/m MODELL STANDARD Valve		with $\Delta p=1$ (NI/min)	Operational ch Max working pressure (bar)	replace the bottom plate aracteristics Orifice size (mm)	To change a 5/ with the one included in (cod. 514.92) and b Working ports size	Temperature °C -10 ÷ +50
MODEL =STANDARD Valve X=ATEX Valve VERSION 16=Pneumatic - Differ 13=Pneumatic - Spring 19=Pneumatic - Spring 19=Pneumatic - Spring 19=Pneumatic - Spring 19=Pneumatic - Spring 19=Solenoid - Spring VOLTAGE B04=12 VDC B05=24 VDC (2W) B56=24 VDC (2W) B56=24 VDC (2W) B56=24 VDC (2W) B56=24 VDC (2W) C05=24 VDC C05=24 VDC C05=24 VDC C05=24 VDC C05=24 VDC C05=24 VDC C05=24 VDC C05=24 VDC C05=24 VDC F56=24V (50-60 Hz) F57=110V (50-60 Hz) F56=24V VDC F56=24V VDC F57=110V (50-60 Hz) F57=110V (50-60 Hz) F57=10V	ential matic g id thial DNS 10 + +50) +40) (30 + +50) +40) (30 + +50) +5 bar r fritings 9 N/m	Fluid Filtered and Jubricated air		Operational ch Max working pressure	replace the bottom plate aracteristics Orffice size	To change a 5// with the one included in (cod. 514.92) and b	Temperature °C

X514.92.00.00

ATEX Valve



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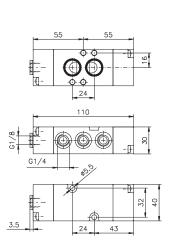
Pneumatic - Differential / Pneumatic - Pneumatic / Pneumatic - Spring

Ordering code ₫515.52.00.

MODEL =STANDARD Valve X=ATEX Valve VERSION 16=Pneumatic - Differential V 18=Pneumatic - Pneumatic 19=Pneumatic - Spring TEMPERATURE OPTIONS =STANDARD Valve (-10 ÷ +50) =ATEX Valve (-20 ÷ +40)

- LT=Low temperature (-30 ÷ +50)





Weight g. 245 Minimum pilot pressure 2,5 bar

Maximum fixing torque for fittings 9 N/m

		Operational characteristics						
Code Example	Code Example MODELL	Fluid	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C	
515.52.00.♥	STANDARD Valve	Filtered and lubricated air					-10 ÷ +50	
515.52.00. Ø LT	LT "Low Temperture" Valve			1100	10	8	G1/4"	-30 ÷ +50
X515.52.00.	ATEX Valve						-20 ÷ +40	

Solenoid - Solenoid Ordering code ₫515.52.00.35. MODEL M =STANDARD Valve X=ATEX Valve VOLTAGE B04=12 VDC 16 B05=24 VDC B09=24 VDC (2W) B56=24V (50-60 Hz) 24 . 600 B57=110V (50-60 Hz) 110 B58=230 V (50-60 Hz) C04=12 VDC C05=24 VDC C09=24 VDC (2W) ¢1, C09=24 VDC (2W) C56=24V (50-60 Hz) 24 C57=110V (50-60 Hz) ŧΦJ C58=230 V (50-60 Hz) 40 F04=12 VDC F05=24 VDC F56=24V (50-60 Hz) 65⁵⁾ F57=110V (50-60 Hz) F58=230 V (50-60 Hz) TEMPERATURE OPTIONS =STANDARD Valve (-10 ÷ +50) 0 =ATEX Valve (-20 ÷ +40) LT=Low temperature (-30 ÷ +50) "LT" and "ATEX" Versions are not available with MF coils Weight g. 415 Minimum pilot pressure 2,5 bar 14 12 Maximum fixing torque for fittings 9 N/m

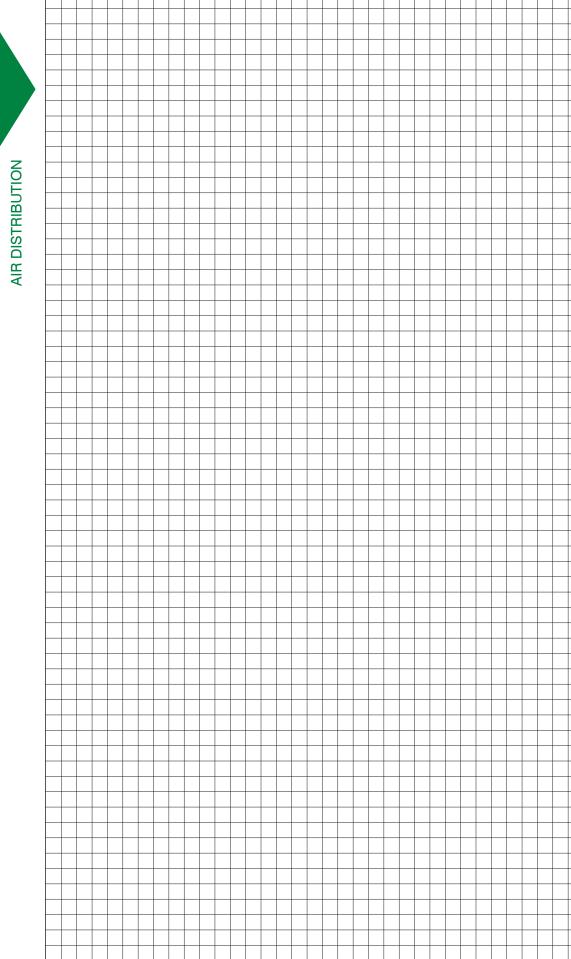
	MODELL	Operational characteristics						
Code Example		Fluid	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C	
515.52.00.35.	STANDARD Valve	Filtered and lubricated air	1100	10	8	G1/4"	-10 ÷ +50	
515.52.00.35. @ LT	LT "Low Temperture" Valve						-30 ÷ +50	
X515.52.00.35.	ATEX Valve						-20 ÷ +40	



F58=230 V (50-60 Hz) TEMPERATURE OPTIONS =STANDARD Valve (-10 ÷ +5) =ATEX Valve (-20 ÷ +40)							
C58=230 V (50-60 Hz) F04=12 VDC F05=24 VDC F56=24V (50-60 Hz)							
C09=24 VDC (2W) C56=24V (50-60 Hz)							
					G1/4		
B58=230 V (50-60 Hz)							
	_	and the second					
				53			
					11		
B04=12 VDC							
VOLTAGE							
39=Solenoid - Spring				f a			
				<u> </u>			
					55		
MODEL							
0 515.52.00. V.OC	(Ex)						
Ordering code							
	MODEL =STANDARD Valve X=ATEX Valve VERSION 38=Solenoid - Differential 39=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B04=12 VDC B09=24 VDC (2W) B56=24V (50-60 Hz) B57=110V (50-60 Hz) B57=110V (50-60 Hz) C04=12 VDC C09=24 VDC (2W) C56=24V VDC C09=24 VDC (2W) C58=230 V (50-60 Hz) C57=110V (50-60 Hz) C57=110V (50-60 Hz) F04=12 VDC F05=24 VDC F05=240 VDC C09=24 VDC (2W) C58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=210V (50-60 Hz) F58=230 V (50-60 Hz) =STANDARD Valve (10 ± +50 =ATEX Valve (20 ± +40)	MODEL =STANDARD Valve X=ATEX Valve VERSION 36=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B04=12 VDC B05=24 VDC C04=12 VDC C05=24 VDC F05=24V (50-60 Hz) F04=12 VDC F05=24V (50-60 Hz) F05=24V (50-60 Hz) F58=230 V (50-60 Hz	WODEL =STANDARD Valve X=ATEX Valve VERSION 36=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B04=12 VDC B05=24 VDC B05=24 VDC B05=24 VDC B05=24 VDC B05=24 VDC B55=24 VDC B56=24 VDC B56=24 VDC B56=24 VDC B56=24 VDC B56=24 VDC C04=12 VDC C04=12 VDC C05=24 VDC C09=24 VDC (2W) C56=24 VDC C09=24 VDC (2W) C56=24 VDC C09=24 VDC (2W) C56=24 VDC C58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) =STANDARD Valve (-10 ± +50) =ATEX Valve (-20 ± +40) <td>MODEL -STANDARD Valve X=ATEX Valve VERSION 36=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B04=12 VDC B05=24 VDC C04=12 VDC C04=12 VDC C03=24 VDC (2W) B58=230 V (50-60 Hz) C58=24 VDC C03=24 VDC (2W) C58=24 VDC C03=24 VDC (2W) C58=24 VDC C58=230 V (50-60 Hz) C58=230 V (50-60 Hz) C58=230 V (50-60 Hz) F56=240 VC F56=240 VC F56=240 VC F56=230 V (50-60 Hz) F57=110V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230</td> <td>MODEL =STANDARD Valve x=ATEX Valve VERSION 96=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B04=12 VDC B05=24 VDC B05=24 VDC B05=24 VDC ESS=230 (50-60 Hz) C04=12 VDC C05=24 VDC C05=24 VDC C05 F05=24 VDC C05 <t< td=""><td>MODEL =STANDARD Valve X=ATEX Valve VERSION 38=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B06=24 VDC B06=24 VDC B05=230 V(c0 K0Hz) ESF=230 V(c0 K0Hz) C65=244 V0C C05=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C75=110V (60-60 Hz) C57=110V (60-60 Hz) C58=230 V (60-60 Hz) C65=244 VDC F05=244 VDC</td><td>$\begin{array}{c} \text{NODEL} \\ \hline \text{STANDARD Valve} \\ \hline \text{X-ATEX Valve} \\ \hline \text{VERSION} \\ \hline \text{Bs-Solenoid - Differential} \\ \hline \text{Bs-Solenoid - Spring} \\ \hline \text{VOLTAGE} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Cs-24V OC} \\ \hline \text{Cs-230V (Gr-06 Hz)} \\ \hline \text{Cs-230V (Gr-07 Hz)} \\$</td></t<></td>	MODEL -STANDARD Valve X=ATEX Valve VERSION 36=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B04=12 VDC B05=24 VDC C04=12 VDC C04=12 VDC C03=24 VDC (2W) B58=230 V (50-60 Hz) C58=24 VDC C03=24 VDC (2W) C58=24 VDC C03=24 VDC (2W) C58=24 VDC C58=230 V (50-60 Hz) C58=230 V (50-60 Hz) C58=230 V (50-60 Hz) F56=240 VC F56=240 VC F56=240 VC F56=230 V (50-60 Hz) F57=110V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230 V (50-60 Hz) F57=110V (50-60 Hz) F58=230	MODEL =STANDARD Valve x=ATEX Valve VERSION 96=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B04=12 VDC B05=24 VDC B05=24 VDC B05=24 VDC ESS=230 (50-60 Hz) C04=12 VDC C05=24 VDC C05=24 VDC C05 F05=24 VDC C05 <t< td=""><td>MODEL =STANDARD Valve X=ATEX Valve VERSION 38=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B06=24 VDC B06=24 VDC B05=230 V(c0 K0Hz) ESF=230 V(c0 K0Hz) C65=244 V0C C05=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C75=110V (60-60 Hz) C57=110V (60-60 Hz) C58=230 V (60-60 Hz) C65=244 VDC F05=244 VDC</td><td>$\begin{array}{c} \text{NODEL} \\ \hline \text{STANDARD Valve} \\ \hline \text{X-ATEX Valve} \\ \hline \text{VERSION} \\ \hline \text{Bs-Solenoid - Differential} \\ \hline \text{Bs-Solenoid - Spring} \\ \hline \text{VOLTAGE} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Cs-24V OC} \\ \hline \text{Cs-230V (Gr-06 Hz)} \\ \hline \text{Cs-230V (Gr-07 Hz)} \\$</td></t<>	MODEL =STANDARD Valve X=ATEX Valve VERSION 38=Solenoid - Differential 39=Solenoid - Spring VOLTAGE B06=24 VDC B06=24 VDC B05=230 V(c0 K0Hz) ESF=230 V(c0 K0Hz) C65=244 V0C C05=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C65=244 VDC C75=110V (60-60 Hz) C57=110V (60-60 Hz) C58=230 V (60-60 Hz) C65=244 VDC F05=244 VDC	$ \begin{array}{c} \text{NODEL} \\ \hline \text{STANDARD Valve} \\ \hline \text{X-ATEX Valve} \\ \hline \text{VERSION} \\ \hline \text{Bs-Solenoid - Differential} \\ \hline \text{Bs-Solenoid - Spring} \\ \hline \text{VOLTAGE} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Bs-24V VOC} \\ \hline \text{Cs-24V OC} \\ \hline \text{Cs-230V (Gr-06 Hz)} \\ \hline \text{Cs-230V (Gr-07 Hz)} \\ $

Code Example	MODELL	Operational characteristics						
		Fluid	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Max working pressure (bar)	Orifice size (mm)	Working ports size	Temperature °C	
515.52.00. ().()	STANDARD Valve	Filtered and lubricated air	1100	10	8	G1/4"	-10 ÷ +50	
515.52.00. Ø.@ LT	LT "Low Temperture" Valve						-30 ÷ +50	
X515.52.00. ♥ .❶	ATEX Valve						-20 ÷ +40	





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