PNEUMAX

SALES PROGRAM

COMPONENTS FOR INDUSTRIAL AUTOMATION


PNEUMAX
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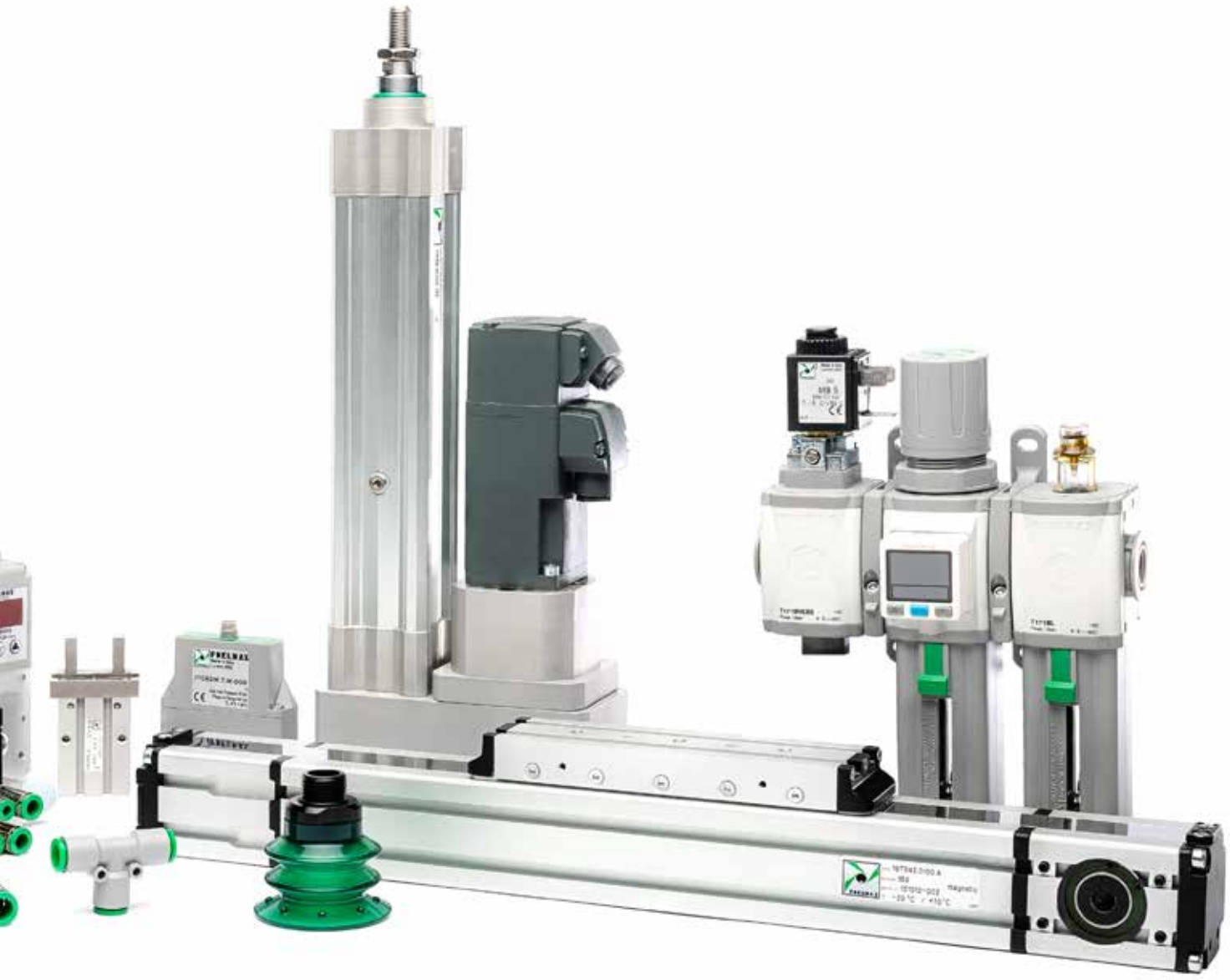
Pneumax

Technology solutions, intelligent automation

Founded in 1976, **Pneumax S.p.A.** is today one of the leading, international manufacturers of components and systems for industrial 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, 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 the Company, making **Pneumax** 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 specialists and product specialists. This represents the main **Pneumax** distinguishing factor.

Pneumatic technology

Electric actuation

Fluid control

Index

Pneumatic Technolgy

3 - Air service units

Series 1700

Series Steel Line

Regulators and pressure boosters

Series Airplus

4 - Cylinders

5 - Manipulation

6 - Sensors

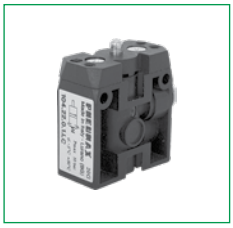
Safety

Pneumax reserves the right to modify the dimensions or technical characteristics of any of its products contained within this catalogue without prior notice
The products included in this catalogue should only be used in applications for which they were originally intended and should only be used by personnel with adequate technical knowledge, PLEASE NOTE: That the misuse of this product could cause serious injury. The user should ensure that the product is installed and operated within the operating characteristics shown and that this complies with any health and safety requirements, however should you require any further information please do not hesitate to contact our Technical office.

***Pneumax S.p.A** accepts no liability for damage or injury arising from the error, misuse or omission in the data provided.*
***Pneumax S.p.A.** accepts no liability from third parties in the form of consequential losses.*

It is the responsibility and duty of the client/user to ensure that all operating requirements are carried out and that the products are used safely.
The application is always the responsibility of the client/user.

1 - Valves



Tube ø4 2/2

Symbol	Description	Code	Operating force	Max. pressure	Flow at 6 bar, Δp=1	Orifice size
	Tappet - spring, lateral connection N.C.	104.22.0.1.LC	13 N	10 bar	90 Nl/min	mm 2,5
	Tappet - spring, lateral connection N.O.	104.22.0.1.LA				
	Tappet - spring, rear connection N.C.	104.22.0.1.PC				
	Tappet - spring, rear connection N.O.	104.22.0.1.PA				
	Lever roller-spring, lateral connections, N.C.	104.22.2.1.LC	9 N			
	Lever roller-spring, lateral connections, N.O.	104.22.2.1.LA				
	Lever roller-spring, rear connections, N.C.	104.22.2.1.PC				
	Lever roller-spring, rear connections, N.O.	104.22.2.1.PA				
	Lever roller ball bearing-spring, lat. con., N.C.	104.22.2.1/1.LC				
	Lever roller ball bearing-spring, lat. con., N.O.	104.22.2.1/1.LA				
	Lever roller ball bearing-spring, rear con., N.C.	104.22.2.1/1.PC				
	Lever roller ball bearing-spring, rear con., N.O.	104.22.2.1/1.PA				
	Lever unidirectional, lateral connections, N.C.	104.22.3.1.LC				
	Lever unidirectional, lateral connections, N.O.	104.22.3.1.LA				
	Lever unidirectional, rear connections, N.C.	104.22.3.1.PC				
	Lever unidirectional, rear connections, N.O.	104.22.3.1.PA				
	Pushbutton - spring, lateral connec. N.C.	104.22.6.22/*.LC	18 N	10 bar		
	Pushbutton - spring, lateral connec. N.O.	104.22.6.22/*.LA				
	Pushbutton - spring, rear connec. N.C.	104.22.6.22/*.PC				
	Pushbutton - spring, rear connec. N.O.	104.22.6.22/*.PA				
	Pushbutton 2 pos., lateral connec. N.C.	104.22.6.31.LC				
	Pushbutton 2 pos., lateral connec. N.O.	104.22.6.31.LA				
	Pushbutton 2 pos., rear connec. N.C.	104.22.6.31.PC				
	Pushbutton 2 pos., rear connec. N.O.	104.22.6.31.PA				
	Raised pushbut. - spring lateral connec. N.C.	104.22.6.23/*LC				
	Raised pushbut. - spring lateral connec. N.O.	104.22.6.23/*.LA				
	Raised pushbut. - spring rear connec. N.C.	104.22.6.23/*.PC				
	Raised pushbut. - spring rear connec. N.O.	104.22.6.23/*.PA				
	Palm button 2 pos., lateral connec. N.C.	104.22.6.25.LC	19 N			
	Palm button 2 pos., lateral connec. N.O.	104.22.6.25.LA				
	Palm button 2 pos., rear connec. N.C.	104.22.6.25.PC				
	Palm button 2 pos., rear connec. N.O.	104.22.6.25.PA				
	Switch 2 pos. long lever, lateral conn. N.C.	104.22.6.27.LC	/			
	Switch 2 pos. long lever, lateral conn. N.O.	104.22.6.27.LA				
	Switch 2 pos. long lever, rear conn. N.C.	104.22.6.27.PC				
	Switch 2 pos. long lever, rear conn. N.O.	104.22.6.27.PA				
	Key switch, lateral connection N.C.	104.22.6.28.LC				
	Key switch, lateral connecction N.O.	104.22.6.28.LA				
	Key switch, rear connection N.C.	104.22.6.28.PC				
	Key switch, rear connecction N.O.	104.22.6.28.PA				

* 1 = Red 2 = Black 3 = Green 4 = Yellow

	Symbol	Description	Code	Operating force	Max. pressure	Flow at 6 bar, Δp=1	Orifice size
2/2		Switch 2 pos. short lever lateral conn. N.C.	104.22.6.30.LC	/	10 bar	90 Nl/min	mm 2,5
		Switch 2 pos. short lever lateral conn. N.O.	104.22.6.30.LA				
		Switch 2 pos. short lever rear conn. N.C.	104.22.6.30.PC				
		Switch 2 pos. short lever rear conn. N.O.	104.22.6.30.PA				
3/2		Tappet - spring lateral connection N.C.	104.32.0.1.LC	13 N			
		Tappet - spring lateral connection N.O.	104.32.0.1.LA				
		Tappet - spring rear connection N.C.	104.32.0.1.PC				
		Tappet - spring rear connection N.O.	104.32.0.1.PA				
		Lever roller-spring, lateral connections, N.C.	104.32.2.1.LC	9 N			
		Lever roller-spring, lateral connections, N.O.	104.32.2.1.LA				
		Lever roller-spring, rear connections, N.C.	104.32.2.1.PC				
		Lever roller-spring, rear connections, N.O.	104.32.2.1.PA				
		Lever roller ball bearing-spring, lat. con., N.C.	104.32.2.1/1.LC				
		Lever roller ball bearing-spring, lat. con., N.O.	104.32.2.1/1.LA				
		Lever roller ball bearing-spring, rear con., N.C.	104.32.2.1/1.PC				
		Lever roller ball bearing-spring, rear con., N.O.	104.32.2.1/1.PA				
		Lever unidirectional, lateral connections, N.C.	104.32.3.1.LC				
		Lever unidirectional, lateral connections, N.O.	104.32.3.1.LA				
		Lever unidirectional, rear connections, N.C.	104.32.3.1.PC				
		Lever unidirectional, rear connections, N.O.	104.32.3.1.PA				
		Pushbutton - spring lateral connec. N.C.	104.32.6.22/*.LC	18 N	10 bar		
		Pushbutton - spring lateral connec. N.O.	104.32.6.22/*.LA				
		Pushbutton - spring rear connec. N.C.	104.32.6.22/*.PC				
		Pushbutton - spring rear connec. N.O.	104.32.6.22/*.PA				
		Pushbutton 2 pos. lateral connec. N.C.	104.32.6.31.LC				
		Pushbutton 2 pos. lateral connec. N.O.	104.32.6.31.LA				
		Pushbutton 2 pos. rear connec. N.C.	104.32.6.31.PC				
		Pushbutton 2 pos. rear connec. N.O.	104.32.6.31.PA				
		Raised pushbut. - spring lateral connec. N.C.	104.32.6.23/*.LC				
		Raised pushbut. - spring lateral connec. N.O.	104.32.6.23/*.LA				
		Raised pushbut. - spring rear connec. N.C.	104.32.6.23/*.PC				
		Raised pushbut. - spring rear connec. N.O.	104.32.6.23/*.PA				
		Palm button 2 pos. lateral connec. N.C.	104.32.6.25.LC	19 N	10 bar	90 Nl/min	mm 2,5
		Palm button 2 pos. lateral connec. N.O.	104.32.6.25.LA				
		Palm button 2 pos. rear connec. N.C.	104.32.6.25.PC				
		Palm button 2 pos. rear connec. N.O.	104.32.6.25.PA				
		Switch 2 pos. long lever lateral conn. N.C.	104.32.6.27.LC	/			
		Switch 2 pos. long lever lateral conn. N.O.	104.32.6.27.LA				
		Switch 2 pos. long lever rear conn. N.C.	104.32.6.27.PC				
		Switch 2 pos. long lever rear conn. N.O.	104.32.6.27.PA				

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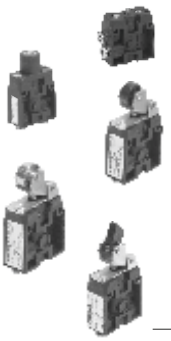
	Symbol	Description	Code	Operating force	Max. pressure	Flow at 6 bar, Δp=1	Orifice size
		Key switch lateral connection N.C.	104.32.6.28.LC	/	10 bar	90 Nl/min	mm 2,5
		Key switch lateral connection N.O.	104.32.6.28.LA				
		Key switch rear connection N.C.	104.32.6.28.PC				
		Key switch rear connection N.O.	104.32.6.28.PA				
		Switch 2 pos. short lever lateral conn. N.C.	104.32.6.30.LC				
		Switch 2 pos. short lever lateral conn. N.O.	104.32.6.30.LA				
		Switch 2 pos. short lever rear conn. N.C.	104.32.6.30.PC				
		Switch 2 pos. short lever rear conn. N.O.	104.32.6.30.PA				
5/2		Pushbutton - spring lateral connection	104.52.6.22/*.L				
		Pushbutton - spring rear connection	104.52.6.22/*.P				
		Pushbutton 2 pos. lateral connection	104.52.6.31.L	30N			
		Pushbutton 2 pos. rear connection	104.52.6.31.P				
		Raised pushbut. - spring lateral connection	104.52.6.23/*.L				
		Raised pushbut. - spring rear connection	104.52.6.23/*.P				
		Palm button 2 pos. lateral connection	104.52.6.25.L	32N			
		Palm button 2 pos. rear connection	104.52.6.25.P				
		Switch long lever 2 pos. stable lateral conn.	104.52.6.27.L				
		Switch long lever 2 pos. stable rear conn.	104.52.6.27.P				
		Key switch 2 pos. stable lateral connection	104.52.6.28.L				
		Key switch 2 pos. stable rear connection	104.52.6.28.P				
		Switch 2 pos. stable short lever lateral conn.	104.52.6.30.L				
		Switch 2 pos. stable short lever rear conn.	104.52.6.30.P				
5/3 Open Centres		Switch long lever 3 pos. instable lat. connec.	104.53.32.6.27.0.L	/			
		Switch long lever 3 pos. instable rear connec.	104.53.32.6.27.0.P				
		Switch long lever 3 pos. stable lateral connec.	104.53.32.6.27.1.L				
		Switch long lever 3 pos. stable rear connec.	104.53.32.6.27.1.P				
		Key switch 3 pos. instable lateral connection	104.53.32.6.28.0.L				
		Key switch 3 pos. instable rear connection	104.53.32.6.28.0.P				
		Key switch 3 pos. stable lateral connection	104.53.32.6.28.1.L				
		Key switch 3 pos. stable rear connection	104.53.32.6.28.1.P				
		Switch short lever 3 pos. instable lateral conn.	104.53.32.6.30.0.L				
		Switch short lever 3 pos. instable rear conn.	104.53.32.6.30.0.P				
		Switch short lever 3 pos. stable lateral conn.	104.53.32.6.30.1.L				
		Switch short lever 3 pos. stable rear conn.	104.53.32.6.30.1.P				
5/3 Pressured Centres		Switch long lever 3 pos. instable lat. connec.	104.53.33.6.27.0.L	/	10 bar	90 Nl/min	mm 2,5
		Switch long lever 3 pos. instable rear connec.	104.53.33.6.27.0.P				
		Switch long lever 3 pos. stable lateral connec.	104.53.33.6.27.1.L				
		Switch long lever 3 pos. stable rear connec.	104.53.33.6.27.1.P				
		Key switch 3 pos. instable lateral connection	104.53.33.6.28.0.L				
		Key switch 3 pos. instable rear connection	104.53.33.6.28.0.P				
		Key switch 3 pos. stable lateral connection	104.53.33.6.28.1.L				
		Key switch 3 pos. stable rear connection	104.53.33.6.28.1.P				
		Switch short lever 3 pos. instable lateral conn.	104.53.33.6.30.0.L				
		Switch short lever 3 pos. instable rear conn.	104.53.33.6.30.0.P				

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	Symbol	Description	Code	Operating force	Max. pressure	Flow at 6 bar, Δp=1	Orifice size
5/3 Pressured Centres		Switch short lever 3 pos. stable lateral conn.	104.53.33.6.30.1.L	/	10 bar	90 Nl/min	mm 2,5
		Switch short lever 3 pos. stable rear conn.	104.53.33.6.30.1.P				
Accessories		Push button protection cover	104.02				
		Complete pneumatic operator	104.11				
		Complete lever roller operator	104.2.1				
		Complete lever roller ball bearing operator	104.2.1/1				
		Complete lever unidirectional operator	104.3.1				
		Push button	104.6.22/*				
		Raised push button	104.6.23/*				
		Palm button 2 positions	104.6.25				
		Switch long lever 2 positions stable	104.6.27				
		Switch long lever 3 positions instable	104.6.27.0	/	/	/	/
		Switch long lever 3 positions stable	104.6.27.1				
		Key switch 2 positions stable	104.6.28				
		Key switch 3 positions instable	104.6.28.0				
		Key switch 3 positions stable	104.6.28.1				
		Switch short lever 2 positions stable	104.6.30				
		Switch short lever 3 positions instable	104.6.30.0				
		Switch short lever 3 positions stable	104.6.30.1				
		Push button 2 pos. (step. - step.)	104.6.31				
		Joystick selector switch	104.6.39.0				
		Fixing plate (complete with fixing screws)	104.00				
		Contact electric element N.C.	104.NC				
		Contact electric element N.O.	104.NA				

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M5

	Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
3/2		Tappet-spring	105.32.0.1	14 N	10 bar	120 Nl/min	mm 2,5
		Lever roller spring	105.32.2.1	6 N			
		Lever roller ball bearings spring	105.32.2.1/1				
		Lever button spring	105.32.2.6/*				
		Lever unidirectional spring	105.32.3.1				
		Lever panel Ø 22 - 2 positions	105.32.4/*	/			
		Lever panel Ø 30 - 2 positions	105.32.5/*				
		Push button Ø 30 spring	105.32.6.1/*	14 N			
		Push button Ø 22 spring	105.32.6.2/*				
		Push button spring	105.32.6.22/**				
		Raised push button spring	105.32.6.23/**				
		Switch - 2 positions	105.32.6.27	/			
		Key switch - 2 positions	105.32.6.28				
		Handle with valve N.O.	105.32.6.40A	14 N			
		Handle with valve N.C.	105.32.6.40C				
		Palm pushbutton Ø 30 spring	105.32.7.1/*				
		Palm pushbutton Ø 22 spring	105.32.7.2/*				
		Push button spring	105.32.8.1/*				
		Push button - 2 positions	105.32.8/*	3 N			
		Whisker spring	105.32.9.1				
5/2		Tappet spring	105.52.0.1	14 N	10 bar	120 Nl/min	mm 2,5
		Lever roller spring	105.52.2.1	6 N			
		Lever roller ball bearing spring	105.52.2.1/1				
		Lever button spring	105.52.2.6/*				
		Lever roller unidirectional spring	105.52.3.1				
		Lever panel Ø 22 - 2 positions	105.52.4/*	/			
		Lever panel Ø 30 - 2 positions	105.52.5/*				
		Push button Ø 30 spring	105.52.6.1/*	14 N			
		Push button Ø 22- spring	105.52.6.2/*				
		Push button spring	105.52.6.22/**				
		Raised push button-spring	105.52.6.23/**				
		Switch 2 positions	105.52.6.27	/			
		Key switch 2 positions	105.52.6.28				
		Left Handle with valve	105.52.6.40	14 N			
		Right Handle with valve	105.52.6.40D				
		Palm push button Ø 30 spring	105.52.7.1/*				
		Palm push button Ø 22 spring	105.52.7.2/*				
		Push button - spring	105.52.8.1/*				
		Push button 2 positions	105.52.8/*	3 N			
		Whisker - Spring	105.52.9.1	/			

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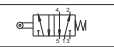
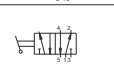
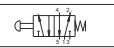
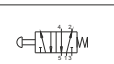
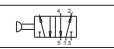
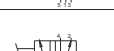
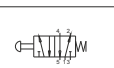
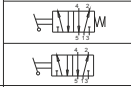
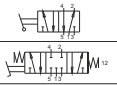
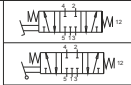
		Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G1/8"	3/2		Tappet spring	228.32.0.1	33 N			
			Tappet panel spring	228.32.1.1				
			Pedal aluminium 2-positions	228.32.10				
			Pedal aluminium spring	228.32.10.1	/			
			Pedal protected spring	228.32.10.1/1				
			Pedal prot. - Spring (no safety dev.)	228.32.10.2/1				
			Pedal protected - 2 positions	228.32.10/1				
			Lever plastic roller spring	228.32.2.1	15 N			
			Lever roller ball bearings spring	228.32.2.1/1				
			Lever metal roller spring	228.32.2.1/2				
			Lever button spring	228/.32.2.6/*				
			Switch lateral 2-positions	228.32.27	/			
			Lever roller unidirectional spring	228.32.3.1	15 N			
			Lever roller unidirectional spring	228.32.3.1/2				
			Lever roller lateral bidirect. spring	228.32.4.1	/	10 bar	540 Nl/min	mm 6
			Lever sensitive differential	228.32.4.13				
			Lever panel Ø 30 2-positions	228.32.5/*				
			Lever front 2-positions	228.32.55/*				
			Push button Ø 30 spring	228.32.6.1/*	33 N			
			Sensitive push button Ø 30 diff.	228.32.6.13/*	18,5 N			
			Push button spring	228.32.6.22/**	33 N			
			Raised push button spring	228.32.6.23/**				
			Palm button 2-positions	228.32.6.25				
			Switch 2 positions	228.32.6.27	/			
			Key switch 2-positions	228.32.6.28				
			Palm push button Ø 30 spring	228.32.7.1/*	33 N			
			Push button spring	228.32.8.1/*				
			Push button 2-positions	228.32.8/*	10 N			
			Lever lateral spring	228.32.9.1/*	/			
			Lever lateral 2 positions	228.32.9/*				
	5/2		Tappet spring	228.52.0.1	33 N			
			Tappet panel spring	228.52.1.1				
			Pedal aluminium 2 positions	228.52.10	/			
			Pedal aluminium spring	228.52.10.1				
			Pedal protected - spring	228.52.10.1/1				
			Pedal prot. - spring (no safety dev.)	228.52.10.2/1				
			Pedal plastic spring (miniatur)	228.52.10.1P				
			Pedal spring(miniat.stainless spool)	228.52.10.1PX		10 bar	540 Nl/min	mm 6
			Pedal protected 2 positions	228.52.10/1				
			Lever plastic roller spring	228.52.2.1	15 N			
			Lever roller ball bearings - spring	228.52.2.1/1				
			Lever metal roller- spring	228.52.2.1/2				
			Lever button - spring	228.52.2.6/*				
			Switch lateral - 2 positions	228.52.27	/			
			Lever roller unidirectional - spring	228.52.3.1	15 N			

		Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" 	5/2		Lever roller, unidirectional spring	228.52.3.1/2	15 N	10 bar	540 Nl/min	mm 6
			Lever roller lateral bidir. - spring	228.52.4.1	/			
			Lever sensitive differential	228.52.4.13				
			Lever panel Ø 30 - 2 positions	228.52.5/*				
			Lever front 2 positions	228.52.55/*				
			Push button Ø 30 spring	228.52.6.1/*	33 N			
			Sensitive pushbutton Ø 30 differ.	228.52.6.13/*	18,5 N			
			Push button spring	228.52.6.22/**	33 N			
			Raised push button spring	228/.52.6.23/**				
			Palm pushbutton 2 positions	228/.52.6.25				
			Switch 2 positions	228.52.6.27	/			
			Key switch 2positions	228.52.6.28				
			Palm push button Ø 30 spring	228.52.7.1/*	33 N			
			Pushbutton spring	228.52.8.1/*				
			Push button 2 positions	228.52.8/*	10 N			
			Lever lateral spring	228.52.9.1/*	/			
			Lever lateral 2 positions	228.52.9/*				
	5/3		Pedal spring - 3 positions	228.53.31.10.1	/	10 bar	410 Nl/min	mm 6
			Lever lat. spring 3 pos. C.C.	228.53.31.9.1/*				
			Lever lateral 3 pos. C.C.	228.53.31.9/*				
			Pedal spring 3- pos. O.C.	228.53.32.10.1				
			Lever lateral spring 3 pos. O.C.	228.53.32.9.1/*				
			Lever lateral 3 pos. O.C.	228.53.32.9/*				
			Lever central (2 positions)	228.53.32.99.2/***				
			Lever central (3 positions)	228.53.32.99.3/***				
			Lever central - spring 3 positions	228.53.32.99/***				

* 1 = Red 2 = Black 3 = Green
** 1 = Red 2 = Black 3 = Green 4 = Yellow
*** 1 = Red 2 = Black

		Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G1/8"	3/2		Tappet spring	T228.32.0.1	33 N			
			Tappet panel spring	T228.32.1.1				
			Lever plastic roller spring	T228.32.2.1	15 N			
			Lever roller ball bearings spring	T228.32.2.1/1				
			Lever metal roller spring	T228.32.2.1/2				
			Lever button spring	T228/.32.2.6/*				
			Lever roller unidirectional spring	T228.32.3.1	15 N			
			Lever roller unidirectional spring	T228.32.3.1/2				
			Lever panel Ø 30 2-positions	T228.32.5/*	/			
			Push button Ø 30 spring	T228.32.6.1/*	33 N			
			Push button spring	T228.32.6.22/**	33 N			
			Raised push button spring	T228.32.6.23/**				
			Palm button 2-positions	T228.32.6.25				
			Switch 2 positions	T228.32.6.27	/			
			Key switch 2-positions	T228.32.6.28				
			Palm push button Ø 30 spring	T228.32.7.1/*	33 N			
			Push button spring	T228.32.8.1/*				
			Push button 2-positions	T228.32.8/*	10 N			
			Lever lateral spring	T228.32.9.1/*	/			
			Lever lateral 2 positions	T228.32.9/*				
	5/2		Tappet spring	T228.52.0.1	33 N	10 bar	620 Nl/min	mm 6
			Tappet panel spring	T228.52.1.1				
			Lever plastic roller spring	T228.52.2.1	15 N			
			Lever roller ball bearings - spring	T228.52.2.1/1				
			Lever metal roller- spring	T228.52.2.1/2				
			Lever button - spring	T228.52.2.6/*				
			Lever roller unidirectional - spring	T228.52.3.1				
			Lever roller, unidirectional spring	T228.52.3.1/2	15 N			
			Lever panel Ø 30 - 2 positions	T228.52.5/*	/			
			Push button Ø 30 spring	T228.52.6.1/*	33 N			
			Push button spring	T228.52.6.22/**	33 N			
			Raised push button spring	T228/.52.6.23/**				
			Palm pushbutton 2 positions	T228/.52.6.25				
			Switch 2 positions	T228.52.6.27	/			
			Key switch 2positions	T228.52.6.28				
			Palm push button Ø 30 spring	T228.52.7.1/*	33 N			
			Pushbutton spring	T228.52.8.1/*				
			Push button 2 positions	T228.52.8/*	10 N			
			Lever lateral spring	T228.52.9.1/*	/			
			Lever lateral 2 positions	T228.52.9/*				
	5/3		Lever lat. spring 3 pos. C.C.	T228.53.31.9.1/*	/	10 bar	410 Nl/min	mm 6
			Lever lateral 3 pos. C.C.	T228.53.31.9/*				
			Lever lateral spring 3 pos. O.C.	T228.53.32.9.1/*				
			Lever lateral 3 pos. O.C.	T228.53.32.9/*				

		Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4"	3/2		Tappet spring	224.32.1.1	71,5 N	10 bar	1360 Nl/min	mm 8
			Pedal aluminium 2 positions	224.32.10	/			
			Pedal aluminium - spring	224.32.10.1				
			Pedal protected 2 positions	214.32.10/1				
			Pedal protected - spring	214.32.10.1/1				
			Pedal prot. - spring (no safety dev.)	214.32.10.2/1				
			Lever roller spring	224.32.2.1	35 N			
			Lever roller unidirectional - spring	224.32.3.1				
			Push button 2 positions	224.32.8	13 N			
			Push button spring	224.32.8.1	71,5 N			
			Lever lateral spring	224.32.9.1/*	/			
			Lever lateral 2 positions	224.32.9/*				
	5/2		Tappet spring	224.52.1.1	71,5 N	10 bar	1360 Nl/min	mm 8
			Pedal aluminium 2 positions	224.52.10	/			
			Pedal aluminium- spring	224.52.10.1				
			Pedal protected 2 positions	214.52.10/1				
			Pedal protected spring	214.52.10.1/1				
			Pedal protected -spring (no saf.)	214.52.10.2/1				
			Lever roller spring	224.52.2.1	35 N			
			Lever roller unidirectional spring	224.52.3.1				
			Push button 2 positions	224.52.8	13 N			
			Push button spring	224.52.8.1	71,5 N			
			Lever lateral spring	224.52.9.1/*				
			Lever lateral 2 positions	224.52.9.2	/	10 bar	1020 Nl/min	mm 7
			Lever lateral with bloc. dev. 2 pos.	224.52.9/*	/	10 bar	1360 Nl/min	mm 8
	5/3		Pedal 3 positions C.C	224.53.31.10	/	10 bar	1280 Nl/min	mm 8
			Pedal - spring 3 pos. C.C.	224.53.31.10.1				
			Lever lat. - spring 3 pos. C.C.	224.53.31.9.1/*				
			Lever lateral 3 pos. C.C.	224.53.31.9.2	/	10 bar	1020 Nl/min	mm 7
			Lev. lat. bloc. dev.-spring 3 pos. C.C.	224.53.31.9/*	/	10 bar	1280 Nl/min	mm 8
			Pedal aluminium 3 pos. O.C.	224.53.32.10				
			Pedal alum. spring 3 pos. O.C.	224.53.32.10.1				
			Lever lat. - spring 3 pos. O.C.	224.53.32.9.1/*				
			Lever lateral 3 pos. O.C.	224.53.32.9.2	/	10 bar	1020 Nl/min	mm 7
			Lev. lat. bloc. dev.-spring 3 pos. O.C.	224.53.32.9/*	/	10 bar	1280 Nl/min	mm 8

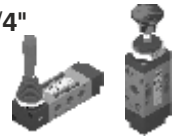
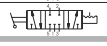
* 1 = Red 2 = Black 3 = Green

MECHANICAL AND MANUAL COMMAND VALVES "TECNO-ECO"

(Series 200, chapter 1)

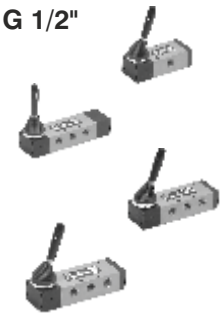
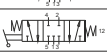
		Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4"	3/2		Push button - Spring	T224.32.8.1	/	10 bar	1050 Nl/min	mm 8,5
			Push button 2 positions	T224.32.8				
			Lever lateral - Spring	T224.32.9.1/*				
			Lever lateral 2 positions	T224.32.9/*				
	5/2		Push button - Spring	T224.52.8.1				
			Push button 2 positions	T224.52.8				

* 1 = Red 2 = Black 3 = Green

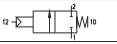
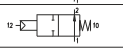
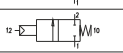
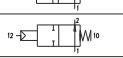
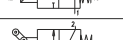
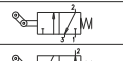
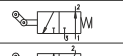
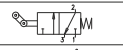
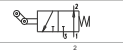
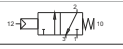
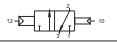
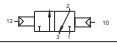
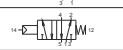
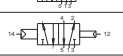
		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4" 	5/2		Lever lateral - Spring	T224.52.9.1/*	10 bar	1050 Nl/min	mm 8,5
			Lever lateral 2 positions	T224.52.9/*			
	5/3		Lever lateral spring centre - 3 positions	T224.53.31.9.1/*	10 bar	900 Nl/min	
			Lever lateral - 3 positions detent	T224.53.31.9/*			

1 = Red 2 = Black 3 = Green

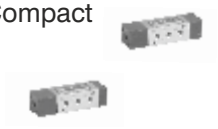
MECHANICAL AND MANUAL COMMAND VALVES
(series 200, chapter 1)

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/2" 	3/2		Lever lateral - 2 positions	212.32.9	10 bar	3500 Nl/min	mm 15
			Lever lateral - Spring	212.32.9.1			
	5/2		Lever lateral - 2 positions	212.52.9	10 bar	3500 Nl/min	mm 15
			Lever lateral - Spring	212.52.9.1			
	5/3		Lever lateral - 3 pos. C.C.	212.53.31.9	10 bar	3000 Nl/min	mm 15
			Lever lateral - Spring 3 pos. C.C.	212.53.31.9.1			
			Lever lateral - 3 positions O.C.	212.53.32.9			
			Lever lateral - 3 positions O.C.	212.53.32.9.1			
G 1" 	3/2		Lever lateral - 2 positions	211.32.9	10 bar	6500 Nl/min	mm 20
			Lever lateral - Spring	211.32.9.1			
	5/2		Lever lateral - 2 positions	211.52.9	10 bar	6500 Nl/min	mm 20
			Lever lateral - Spring	211.52.9.1			
	5/3		Lever lateral - 3 positions C.C.	211.53.31.9	10 bar	6500 Nl/min	mm 20
			Lever lateral - Spring 3 pos. C.C.	211.53.31.9.1			
			Lever lateral - 3 positions O.C.	211.53.32.9			
			Lever lateral - Spring 3 pos. O.C.	211.53.32.9.1			

PNEUMATIC ACTUATED VALVES
(Series 104-105, chapter 1)

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
	2/2		Pneumatic - Spring, lateral connection N.C.	104.22.11.1.LC	10 bar (min. oper. pressure 2,5 bar)	90 Nl/min	mm 2,5
			Pneumatic - Spring, rear connection N.O.	104.22.11.1.LA			
			Pneumatic - Spring, lateral connection N.C.	104.22.11.1.PC			
			Pneumatic - Spring, rear connection N.O.	104.22.11.1.PA			
	3/2		Pneumatic - Spring lateral connection N.C.	104.32.11.1.LC			
			Pneumatic - Spring rear connection N.O.	104.32.11.1.LA			
			Pneumatic - Spring lateral connection N.C.	104.32.11.1.PC			
			Pneumatic - Spring rear connection N.O.	104.32.11.1.PA			
M5 	3/2		Pneumatic - Spring	105.32.11.1	2,5-10 bar	120 Nl/min	mm 2,5
			Pneumatic - Differential	105.32.11.12			
			Pneumatic - Pneumatic	105.32.11.11	2-10 bar		
	5/2		Pneumatic - Spring	105.52.11.1	2,5-10 bar		
			Pneumatic - Differential	105.52.11.12			
			Pneumatic - Pneumatic	105.52.11.11	2-10 bar		

PNEUMATIC ACTUATED VALVES
(series 800, chapter 1)

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
M5 Compact 	3/2		Pneumatic - Spring	805.32.11.1	2-10 bar	160Nl/min	mm 2,5
			Pneumatic - Differential	805.32.11.12			
			Pneumatic - Pneumatic	805.32.11.11	1,5-10 bar		
	5/2		Pneumatic - Spring	805.52.11.1	2-10 bar		
			Pneumatic - Differential	805.52.11.12			
			Pneumatic - Pneumatic	805.52.11.11	1,5-10 bar		

PNEUMATIC ACTUATED VALVES
(series 200, chapter 1)

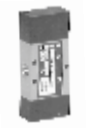
		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8"  	3/2		Pneumatic - Spring	228.32.11.1	2,5-10 bar	540 Nl/min	mm 6
			Pneumatic - Differential external	228.32.11.12			
			Pneumatic - Differential self aligned	228.32.11.12/1			
			Pneumatic - Pneumatic	228.32.11.11	2-10 bar		
			Amplified pneumatic - Spring	228.32.13.1	0,5-10 bar		
	5/2		Pneumatic - Spring	228.52.11.1	2,5-10 bar		
			Pneumatic - Differential external	228.52.11.12			
			Pneumatic - Differential self aligned	228.52.11.12/1			
			Pneumatic - Pneumatic	228.52.11.11	2-10 bar		
			Amplified pneumatic - Spring	228.52.13.1	0,5-10 bar		
	5/3		Pneumatic - Pneumatic - C.C.	228.53.31.11.11	3-10 bar	410 Nl/min	
			Pneumatic - Pneumatic - O.C.	228.53.32.11.11			
			Pneumatic - Pneumatic - P.C.	228.53.33.11.11			
G 1/8"  	3/2		Pneumatic - Spring	T228.32.11.1	10 bar	620 Nl/min	mm 6
			Pneumatic - Differential external	T228.32.11.12			
			Pneumatic - Differential self-feeding	T228.32.11.12/1			
			Pneumatic - Pneumatic	T228.32.11.11			
	5/2		Pneumatic - Spring	T228.52.11.1			
			Pneumatic - Differential external	T228.52.11.12			
			Pneumatic - Differential self-feeding	T228.52.11.12/1			
			Pneumatic - Pneumatic	T228.52.11.11			
	5/3		Pneumatic - Pneumatic	T228.53.31.11.11		410 Nl/min	
			Pneumatic - Pneumatic	T228.53.32.11.11			
			Pneumatic - Pneumatic	T228.53.33.11.11			

PNEUMATIC ACTUATED VALVES
(series 400, chapter 1)

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8"  	3/2		Pneumatic - Spring	T488.32.11.1	10 bar	620Nl/min	mm 6
			Pneumatic - Differential (external)	T488.32.11.12			
			Pneumatic - Pneumatic	T488.32.11.11			
	5/2		Pneumatic - Spring	T488.52.11.1			
			Pneumatic - Differential (external)	T488.52.11.12			
			Pneumatic - Pneumatic	T488.52.11.11			
	5/3		Pneumatic - Pneumatic - C.C.	T488.53.31.11.11	10 bar	410Nl/min	
			Pneumatic - Pneumatic - O.C.	T488.53.32.11.11			
			Pneumatic - Pneumatic - P.C.	T488.53.33.11.11			

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" Compact 	3/2		Pneumatic - Spring	808.32.11.1	2-10 bar	520 Nl/min	mm 4
			Pneumatic - Differential	808.32.11.12			
			Pneumatic - Pneumatic	808.32.11.11	1,5-10 bar		
	5/2		Pneumatic - Spring	808.52.11.1	2-10 bar		
			Pneumatic - Differential	808.52.11.12			
			Pneumatic - Pneumatic	808.52.11.11	1,5-10 bar		
 			Clip	800.00	/	/	/
			Closing plate	808.00			
			Manifolds	808.**			

** = seats number (from 2 up to 10)

		Symbol	Description	Codice	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4" 	3/2		Pneumatic - Spring	224.32.11.1	2,5-10 bar	1360 Nl/min	mm 8
			Pneumatic - Differential external	224.32.11.12			
			Pneumatic - Pneumatic	224.32.11.11	2-10 bar		
	5/2		Pneumatic - Spring	224.52.11.1	2,5-10 bar		
			Pneumatic - Differential external	224.52.11.12			
			Pneumatic - Pneumatic	224.52.11.11	2-10 bar		
	5/3		Pneumatic - Pneumatic - C.C.	224.53.31.11.11	3-10 bar	1280 Nl/min	
			Pneumatic - Pneumatic - O.C.	224.53.32.11.11			
			Pneumatic - Pneumatic - P.C.	224.53.33.11.11			
	3/2		Pneumatic - Spring	T224.32.11.1	10 bar	1050 Nl/min	mm 8,5
			Pneumatic - Differential external	T224.32.11.12			
			Pneumatic - Pneumatic	T224.32.11.11			
	5/2		Pneumatic - Spring	T224.52.11.1			
			Pneumatic - Differential external	T224.52.11.12			
			Pneumatic - Pneumatic	T224.52.11.11			
	5/3		Pneumatic - Pneumatic 3 positions	T224.53.31.11.11	10 bar	900 Nl/min	
			Pneumatic - Pneumatic 3 positions	T224.53.32.11.11			
			Pneumatic - Pneumatic 3 positions	T224.53.33.11.11			

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/2" 	3/2		Pneumatic - Spring	212.32.11.1	2,5-10 bar	3500Nl/min	mm 15
			Pneumatic - Differential	212.32.11.12			
			Pneumatic - Pneumatic	212.32.11.11	2-10 bar		
	5/2		Pneumatic - Spring	212.52.11.1	2,5-10 bar		
			Pneumatic - Differential	212.52.11.12			
			Pneumatic - Pneumatic	212.52.11.11	2-10 bar		
	5/3		Pneumatic - Pneumatic - C.C.	212.53.31.11.11	3-10 bar	3000Nl/min	
			Pneumatic - Pneumatic - O.C.	212.53.32.11.11			
			Pneumatic - Pneumatic - P.C.	212.53.33.11.11			

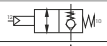
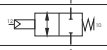
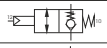
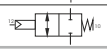
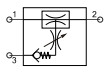
		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/2" Compact series  	3/2		Pneumatic - Spring	212/2.32.11.1	2,5-10 bar	3600Nl/min	mm 15
			Pneumatic - Differential	212/2.32.11.12			
			Pneumatic - Differential	212/2.32.11.12/1.C			
			Pneumatic - Differential	212/2.32.11.12/1.A			
			Pneumatic - Pneumatic	212/2.32.11.11			
	5/2		Pneumatic - Spring	212/2.52.11.1			
			Pneumatic - Differential	212/2.52.11.12			
			Pneumatic - Differential	212/2.52.11.12/1			
			Pneumatic - Pneumatic	212/2.52.11.11			
	5/3		Pneumatic - Pneumatic	212/2.53.31.11.11	3-10 bar	3300Nl/min	
			Pneumatic - Pneumatic	212/2.53.32.11.11			
			Pneumatic - Pneumatic	212/2.53.33.11.11			
G 1" 	3/2		Pneumatic - Spring	211.32.11.1	2,5-10 bar	6500Nl/min	mm 20
			Pneumatic - Differential	211.32.11.12			
			Pneumatic - Pneumatic	211.32.11.11	2-10 bar		
	5/2		Pneumatic - Spring	211.52.11.1	2,5-10 bar		
			Pneumatic - Differential	211.52.11.12			
			Pneumatic - Pneumatic	211.52.11.11	2-10 bar		
	5/3		Pneumatic - Pneumatic C.C.	211.53.31.11.11	3-10 bar		
			Pneumatic - Pneumatic O.C.	211.53.32.11.11			
			Pneumatic - Pneumatic P.C.	211.53.33.11.11			

ACCESSORIES
(series 600, chapter 1)

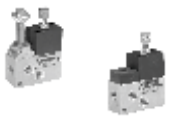
		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Miniature flow control valve 	M5 tube Ø3		Bidirectional	6.01.305.1.1	10 bar	/	mm 1,5
			Bidirectional button	6.01.305.1.1P			
			Unidirectional 1-2	6.01.305.1.2			
			Unidirectional 2-1	6.01.305.2.1			
			Unidirectional button 1-2	6.01.305.1.2P			
			Unidirectional button 2-1	6.01.305.2.1P			
	M5 tube Ø3,17		Bidirectional	6.01.315.1.1			
			Bidirectional button	6.01.315.1.1P			
			Unidirectional 1-2	6.01.315.1.2			
			Unidirectional 2-1	6.01.315.2.1			
			Unidirectional button 1-2	6.01.315.1.2P			
			Unidirectional button 2-1	6.01.315.2.1P			
	M5 tube Ø4		Bidirectional	6.01.45.1.1			
			Bidirectional button	6.01.45.1.1P			
			Unidirectional 1-2	6.01.45.1.2			
			Unidirectional 2-1	6.01.45.2.1			
			Unidirectional button 1-2	6.01.45.1.2P			
			Unidirectional button 2-1	6.01.45.2.1P			

		Symbol	Description	Code	Forza di azionam.	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Flow control valve	M5		Unidirectional connection in line	6.01.05	/	10 bar	/	mm 2
			Bidirectional connection in line	6.01.05/2				
			Unidirectional connection at 90°	6.01.05.90				
			Bidirectional connection at 90°	6.01.05.90/2				
			Unidirectional through screw	6.01.05.180				
			Bidirectional trough screw	6.01.05.180/2				
	G 1/8"		Unidirectional ultra sensitive	6.01.18/4	/	10 bar	/	mm 3
			Bidirectional ultra sensitive	6.01.18/5				
			Unidirec. ultra sens. with lock nut	6.01.18/6				
			Bidirec. ultra sens. with lock nut	6.01.18/7				
			Unidirectional	6.01.18N	/	10 bar	/	mm 4
			Unidirectional economic version	6.01.18NE				
			Bidirectional	6.01.18/1N				
			Bidirectional economic version	6.01.18/1NE				
	G 1/4"		Compact type - unidirectional	6.01.14/1	/	10 bar	/	mm 5,5
			Unidirectional	6.01.14N	/	10 bar	/	mm 7
			Bidirectional	6.01.14/1N				
	G 1/2"		Unidirectional	6.01.12N	/	10 bar	/	mm 12
			Bidirectional	6.01.12/1N				
	G 3/4"		Unidirectional	6.01.34				
Quick exhaust valves			M5	6.02.05	/	10 bar	120 Nl/min	/
			G 1/8"	6.02.18			480 Nl/min	
			G 1/4"	6.02.14			960 Nl/min	
			G 1/2"	6.02.12			3300 Nl/min	
In line quick exhaust valves			M5, M5 inlet connection	6.02 M5.M5L	/	10 bar	90 Nl/min	/
			M7, M5 inlet connection	6.02.M5.M7L				
			G1/8", M5 inlet connection	6.02.M5.18L				
			M5, ø3 tube inlet connection	6.02.03.M5L				
			M7, ø3 tube inlet connection	6.02.03.M7L				
			G1/8", ø3 tube inlet connection	6.02.03.18L				
			M5, ø4 tube inlet connection	6.02.04.M5L				
			M7, ø4 tube inlet connection	6.02.04.M7L				
			G1/8", ø4 tube inlet connection	6.02.04.18L			110 Nl/min	
			M5, ø6 tube inlet connection	6.02.06.M5L			90 Nl/min	
			M7, ø6 tube inlet connection	6.02.06.M7L				
			G1/8", ø6 tube inlet connection	6.02.06.18L			110 Nl/min	
			Ø4, ø4 inlet connection	6.02.04.04.L				
			Ø6, ø6 inlet connection	6.02.06.06.L				
			Ø4, G1/8" inlet connection	6.02.18.04.L				
			Ø6, G1/8" inlet connection	6.02.18.06.L				
			G1/8", G1/8" inlet connection	6.02.18.18.L				

	Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Exhaust flow control 		M5	6.03.05	/	/	/	/
		G 1/8"	6.03.18				
		G 1/4"	6.03.14				
		G 1/2"	6.03.12				
Shuttle valve  		M5	6.04.05	/	10 bar	110 Nl/min	/
		G 1/4" OR	6.04.18			700 Nl/min	
		G 1/8"	6.04.14			2200 Nl/min	
		M5 AND	6.04.05/1			100 Nl/min	
		G 1/8" AND	6.04.18/1			480 Nl/min	
		“OR” Ø4	6.04.04	/	10 bar	105 Nl/min	mm 2,5
		“OR” Ø4	6.04.04/1			105 Nl/min	
Silencers steel wool 		G 1/8"	6.05.18	/	/	/	/
		G 1/4	6.05.14				
		G 3/8"	6.05.38				
		G 1/2"	6.05.12				
Silencers brass 		M5	6.06.05	/	/	/	/
		G 1/8"	6.06.18				
		G 1/4"	6.06.14				
		G 3/8"	6.06.38				
		G 1/2"	6.06.12				
		G 3/4"	6.06.34				
		G 1”	6.06.01				
Poppet check valves 		Poppet NBR M5	6.07.05	/	10 bar	160 Nl/min	/
		Poppet NBR G 1/8"	6.07.18			650 Nl/min	
		Poppet NBR G 1/8" reduced	6.07.18R			100 Nl/min	
		Poppet NBR G 1/4"	6.07.14			1150 Nl/min	
		Poppet NBR G 3/8"	6.07.38			2600 Nl/min	
		Poppet NBR G 1/2"	6.07.12			3500 Nl/min	
		Poppet FPM G 1/8"	6.07.18V			650 Nl/min	
		Poppet FPM G 1/8" reduced	6.07.18VR			100 Nl/min	
		Poppet FPM G 1/4"	6.07.014V			1150 Nl/min	
		Poppet FPM G 3/8"	6.07.38V			2600 Nl/min	
		Poppet FPM G 1/2"	6.07.12V			3500 Nl/min	

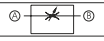
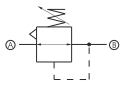
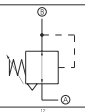
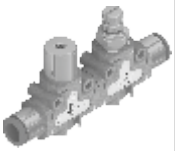
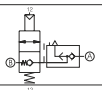
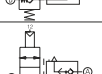
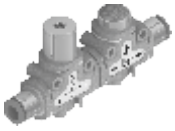
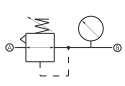
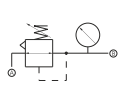
		Symbol	Description	Code	Operating force	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
Manifold  			4 connections M5	6.08.05/4	/	20 bar	/	/
			4 connections G 1/8"	6.08.18/4				
			4 connections G 1/4"	6.08.14/4				
			4 connections G 3/8"	6.08.38/4				
			4 connections G 1/2"	6.08.12/4				
			10 connections M5	6.08.05/8				
			10 connections G 1/8"	6.08.18/8				
			10 connections G 1/4"	6.08.14/8				
			10 connections G 3/8"	6.08.38/8				
			10 connections G 1/2"	6.08.12/8				
Block valves 	G 1/4"		Unidirectional	6.09.14.UN.	/	4-10 bar	700 Nl/min	mm 7
			Bidirectional	6.09.14.BN				
	G 1/2"		Unidirectional	6.09.12.UN	/	4-10 bar	2000 Nl/min	mm 12
			Bidirectional	6.09.12.BN				
Economizer 			G 1/8" (adj. range 0 to 5,5 bar)	6.11.18	/	10 bar	860 Nl/min	mm 6
			G 1/4" (adj. range 0 to 5,5 bar)	6.11.14				
Manifold G 1/8" 			Max. valve thickness 18 mm	6.10.18.18/*	/	/	/	/
			Max. valve thickness 25 mm	6.10.18.25/*				
			Max. valve thickness 26 mm	6.10.18.26/*				
			Max. valve thickness 30 mm	6.10.18.30/*				
			Max. valve thickness 32 mm	6.10.18.32/*				
			Max. valve thickness 35 mm	6.10.18.35/*				
Manifold G 1/4" 			Max. valve thickness 20 mm	6.10.14.20/*	/	/	/	/
			Max. valve thickness 25 mm	6.10.14.25/*				
			Max. valve thickness 30 mm	6.10.14.30/*				
			Max. valve thickness 35 mm	6.10.14.35/*				
			Max. valve thickness 45 mm	6.10.14.45/*				
Spray valve 			M5 ÷ G1"	6.13.00	/	3-10 bar	/	/

* = seats number (from 2 up to 10)

	Description	Code	Operating force	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
Pressure switch 	Threaded connections	900.18.1-1	/	/	/	/
	Threaded connections	900.18.1-4	/	/	/	/
	Faston connections	900.18.1/1-1	/	/	/	/
	Faston connections	900.18.1/1-4	/	/	/	/
	Switch protection	900.18.0	/	/	/	/
Impulse generators 	G 1/8"	900.18.2N	/	10 bar	/	mm 2
Pneumatic timers 	N.C. 30 seconds	900.18.3	/	3-10 bar	130 Nl/min	mm 2,5
	N.C. 60 seconds	900.18.3-60				
	N.O. 30 seconds	900.18.4		4-10 bar		
	N.O. 60 seconds	900.18.4-60				
Two hands safety valve G1/4" 	G 1/4"	900.52.1.1	/	10 bar	1030 Nl/min	mm 7
Two hands safety valves 	Type III A (accor. to EN 574 standard)	900.18.9	/	3-8 bar	40 Nl/min	mm 2,5
	Type III B (accor. to EN 574 standard)	900.18.10				
	Power valve adaptor	900.18.11				
Flip - Flop 	G 1/8" - Pneumatic command Electric command with M2 mechanic Electric command with M3P CNOMO	900.52.1.3 900.52.1.4 900.52.1.5	/	10 bar	540 Nl/min	mm 6
Oscillator valve 	Without "NOT" logic elements	900.52.5	/	2-8 bar	540 Nl/min	mm 6
	Including "NOT" logic elements	900.52.5.C				
External feeding base 	For "NOT" logic elements	900.005	/	/	/	/
Signal amplifier 	G 1/8"	900.32.6	/	0,05-10 bar	130 Nl/min	mm 3
Progressive start-up valve 	G 1/4"	900.14.7	/	2,5-10 bar	Flow rate needle fully open from 1 to 2 200 Nl/min	mm 6
High-low pressure device 	Including pneumatic control	900.18.8P	/	10 bar	650 Nl/min	/
	Including M2 mechanic	900.18.8E				

	Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Flow rate with free exhaust	Temperature
Unidirectional G1/8”		Metal banjo Ø4	500418U	0,5-10 bar	285 Nl/min	450 Nl/min	-5°C + 50°C
		Metal banjo Ø6	500618U				
		Metal banjo Ø8	500818U				
		Metal banjo G1/8”	501818U				
		Banjo only	50A18U				
Bidirectional		Metal banjo Ø4	500418B				
		Metal banjo Ø6	500618B				
		Metal banjo Ø8	500818B				
		Metal banjo G1/8”	501818B				
		Banjo only	50A18B				
Unidirectional G1/4”		Metal banjo Ø6	500614U	0,5-10 bar	530 Nl/min	800 Nl/min	
		Metal banjo Ø8	500814U				
		Metal banjo Ø10	501014U				
		Metal banjo Ø14	501414U				
		Banjo only	50A14U				
Bidirectional		Metal banjo Ø6	500614B				
		Metal banjo Ø8	500814B				
		Metal banjo Ø10	501014B				
		Metal banjo Ø14	501414B				
		Banjo only	50A14B				
Unidirectional G3/8”		Metal banjo Ø6	500638U	0,5-10 bar	1000 Nl/min	1600 Nl/min	
		Metal banjo Ø8	500838U				
		Metal banjo Ø10	501038U				
		Metal banjo Ø12	501238U				
		Metal banjo G3/8”	503838U				
		Banjo only	50A38U				
Bidirectional		Metal banjo Ø6	500638B				
		Metal banjo Ø8	500838B				
		Metal banjo Ø10	501038B				
		Metal banjo Ø12	501238B				
		Metal banjo G3/8”	503838B				
		Banjo only	50A38B				
Unidirectional G1/2”		Metal banjo Ø12	501212U	0,5-10 bar	1300 Nl/min	2600 Nl/min	
		Metal banjo Ø14	501412U				
		Metal banjo G1/2”	50G1212U				
		Banjo only	50A12U				
Bidirectional		Metal banjo Ø12	501212B				
		Metal banjo Ø14	501412B				
		Metal banjo G1/2”	50G1212B				
		Banjo only	50A12B				

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Flow rate with free exhaust	Temperature
Unidirectional	G1/8"		Technopolymer fitting Ø4	T500418U	0,5-10 bar	285 Nl/min	450 Nl/min	-5°C + 50°C
			Technopolymer fitting Ø6	T500618U				
			Technopolymer fitting Ø8	T500818U				
Bidirectional			Technopolymer fitting Ø4	T500418B				
			Technopolymer fitting Ø6	T500618B				
			Technopolymer fitting Ø8	T500818B				
Unidirectional	G1/4"		Technopolymer fitting Ø6	T500614U	0,5-10 bar	530 Nl/min	800 Nl/min	
			Technopolymer fitting Ø8	T500814U				
			Technopolymer fitting Ø10	T501014U				
Bidirectional			Technopolymer fitting Ø6	T500614B				
			Technopolymer fitting Ø8	T500814B				
			Technopolymer fitting Ø10	T501014B				
Unidirectional	G3/8"		Technopolymer fitting Ø8	T500838U	0,5-10 bar	1000 Nl/min	1600 Nl/min	
			Technopolymer fitting Ø10	T501038U				
			Technopolymer fitting Ø12	T501238U				
Bidirectional			Technopolymer fitting Ø8	T500838B				
			Technopolymer fitting Ø10	T501038B				
			Technopolymer fitting Ø12	T501238B				
Unidirectional	G1/2"		Technopolymer fitting Ø10	T501012U	0,5-10 bar	1300 Nl/min	2600 Nl/min	
			Technopolymer fitting Ø12	T501212U				
Bidirectional			Technopolymer fitting Ø10	T501012B				
			Technopolymer fitting Ø12	T501212B				

	Symbol	Description	Code	Operating force	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
		Unidirectional flow regulator	551.111.A.B.XX	/	10 bar	/	3 mm
		Bidirectional flow regulator	551.112.A.B.XX				
		In line pressure regulator (0-2 bar)	551.122.A.B.XX	/	10 bar	180 Nl/min	/
		In line pressure regulator (0-4 bar)	551.124.A.B.XX				
		In line pressure regulator (0-8 bar)	551.128.A.B.XX				
		90° pressure regulator (0-2 bar)	551.222.A.B.XX	/	10 bar	180 Nl/min	/
		90° pressure regulator (0-4 bar)	551.224.A.B.XX				
		90° pressure regulator (0-8 bar)	551.228.A.B.XX				
		Unidirectional blocking valve	551.131.A.B.XX	/	0,5-10 bar	285 Nl/min	/
		Bidirectional blocking valve	551.132.A.B.XX				
		Unidirectional 90° blocking valve	551.231.A.B.XX	/	0,5-10 bar	285 Nl/min	/
		Bidirectional 90° blocking valve	551.232.A.B.XX				
		Circuit selector valve - OR	551.141.A.B.C	/	10 bar	600 Nl/min	/
		Circuit selector valve - AND	551.151.A.B.C	/	10 bar	550 Nl/min	/
		Quick exhaust valve	551.161.A.B.XX	/	10 bar	250 Nl/min	/
		Pressure indicator	551.178.A.B.XX	/	8 bar	/	/
		Soft start valve in line	551.181.A.B.XX	/	0,2-10 bar	650 Nl/min	/
		Soft start valve 90°	551.281.A.B.XX	/	0,2-10 bar	650 Nl/min	/
		Unidirectional blocking valve + Unidirectional flow contro valve	551.1F1.A.B.XX	/	0,5-10 bar	285 Nl/min	/
		Bidirectional blocking valve + Bidirectional flow control valve	551.1F2.A.B.XX				
		Bidirectional blocking valve + Unidirectional flow control valve	551.1F3.A.B.XX				
		Bidirectional blocking valve + Unidirectional flow control valve	551.1F4.A.B.XX				
		Unidirectional blocking valve + Unidirectional flow control valve	551.2F1.A.B.XX	/	0,5-10 bar	285 Nl/min	3 mm
		Bidirectional blocking valve + Bidirectional flow control valve	551.2F2.A.B.XX				
		Bidirectional blocking valve + Bidirectional flow control valve	551.2F3.A.B.XX				
		Bidirectional blocking valve + Unidirectional flow control valve	551.2F4.A.B.XX				
		Unidirectional blocking valve + Quick exhaust valve	551.1G1.A.B.XX	/	0,5-10 bar	285 Nl/min	/
		Bidirectional blocking valve + Quick exhaust valve	551.1G2.A.B.XX				
		90° Unidirectional blocking valve + Quick exhaust valve	551.2G1.A.B.XX	/	0,5-10 bar	285 Nl/min	/
		90° Bidirectional blocking valve + Quick exhaust valve	551.2G2.A.B.XX				
		In line pres. regulat. + pres. indicat. (0-2 bar)	551.1H2.A.B.XX	/	8 bar	/	/
		In line pres. regulat. + pres. indicat. (0-4 bar)	551.1H4.A.B.XX				
		In line pres. regulat. + pres. indicat. (0-8 bar)	551.1H8.A.B.XX				
		90° pres. regulat. + pres. Indicat. (0-2 bar)	551.2H2.A.B.XX	/	8 bar	/	/
		90° pres. regulat. + pres. indicat. (0-4 bar)	551.2H4.A.B.XX				
		90° pres. regulat. + pres. Indicat. (0-8 bar)	551.2H8.A.B.XX				

CONNECTIONS LIST "A" - "B" :

00 = None
D4 = Straight ø4
D6 = Straight ø6
D8 = Straight ø8
L1 = Female banjo G1/8"
G4 = Rotating banjo ø4
G6 = Rotating banjo ø6
G8 = Rotating banjo ø8
M1 = G1/8" male
M2 = G1/4" male
F1 = G1/8" female

Accessories

Coupling kit (pins and forks)	Fixing brackets	DIN rail adapter
55160	**55150**	**55116**
		

Connections Type

Ø4 straight cartridge	Ø6 straight catridge	Ø8 straight catridge
551KD4	**551KD6**	**551KD8**
		

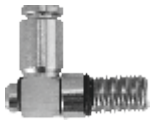
Ø4 banjo PL cartridge	Ø6 banjo PL cartridge	Ø8 banjo PL cartridge
551KG4	**551KG6**	**551KG8**
		

G 1/8” banjo female cartidge	G 1/8” male straight cartidge	G 1/4” male straight cartidge
551KL1	**551KM1**	**551KM2**
		

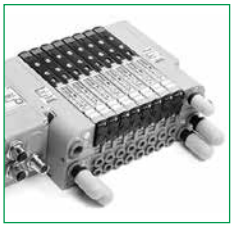
G 1/8” female straight cartidge	Connection for multiple function
551KF1	**551KUU**
	

	Code	Wall fixing screws	Assembly positions	Flow at 6 bar, Δp=1	Working pressure	Temperature
	**17522AA . _ .** **C** = 0 ÷ 8 bar **B** = 0 ÷ 4 bar (adjusting range) **A** = 0 ÷ 2 bar **4** = Tube Ø4 mm **6** = Tube Ø6 mm (inlet connection)	/	Indifferent	120 Nl/min	10 bar	-5°C +50°C
	**17602A . _ .** **C** = 0 ÷ 8 bar **B** = 0 ÷ 4 bar (adjusting range) **A** = 0 ÷ 2 bar **0** = None **1** = G1/8" banjo **4** = Tube Ø4 mm **6** = Tube Ø6 mm **8** = Tube Ø8 mm	/	Indifferent	120 Nl/min		
	**17602B . _ .** **C** = 0 ÷ 8 bar **B** = 0 ÷ 4 bar (adjusting range) **A** = 0 ÷ 2 bar **0** = None **1** = G1/4" banjo **4** = Tube Ø4 mm **6** = Tube Ø6 mm **8** = Tube Ø8 mm	/	Indifferent	120 Nl/min		

COMPACT FITTINGS FOR LUBRICATION
(series Mini-RAP, chapter 1)

	Code	Wall fixing screws	Assembly positions	Flow at 6 bar, Δp=1	Working pressure	Temperature
	**RDR3.40-MH05**	/	/	/	10 bar	-20°C +70°C
	**RDR6.40-_** **MH12** = M6, H= 12mm **FH12** = M6x0,75, H= 12mm	/	/	/		
	**RGR3.40-MH05**	/	/	/		
	**RGR6.40-_** **MH12** = M6, H= 12mm **FH12** = M6x0,75, H= 12mm	/	/	/		

2 - Solenoid valves



		Symbol		Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
10 mm	2/2 N.C.		24 VDC	90° connector with led	N361.1	0 - 7 bar	14 Nl/min	mm 0,7
				Cable 300 mm. - IP65 (embedded cable)	N361.2 *			
				In line connector with led	N361.3			
				90° connector without led	N361.4			
				In line connector without led	N361.5			
			12 VDC	90° connector with led	N362.1			
				Cable 300 mm. - IP65 (embedded cable)	N362.2 *			
				In line connector with led	N362.3			
				90° connector without led	N362.4			
				In line connector without led	N362.5			
			6 VDC	90° connector with led	N364.1 *			
				Cable 300 mm. - IP65 (embedded cable)	N364.2 *			
				In line connector with led	N364.3 *			
				90° connector without led	N364.4 *			
				In line connector without led	N364.5 *			
	3/2 N.C.		24 VDC	90° connector with led	N371.1	0 - 7 bar	14 Nl/min	mm 0,7
				Cable 300 mm. - IP65 (embedded cable)	N371.2 *			
				In line connector with led	N371.3			
				90° connector without led	N371.4			
				In line connector without led	N371.5			
			12 VDC	90° connector with led	N372.1			
				Cable 300 mm. - IP65 (embedded cable)	N372.2 *			
				In line connector with led	N372.3			
				90° connector without led	N372.4			
				In line connector without led	N372.5			
			6 VDC	90° connector with led	N374.1 *			
				Cable 300 mm. - IP65 (embedded cable)	N374.2 *			
				In line connector with led	N374.3 *			
				90° connector without led	N374.4 *			
				In line connector without led	N374.5 *			
	3/2 N.O.		24 VDC	90° connector with led	N381.1	0 - 7 bar	14 Nl/min	mm 0,7
				Cable 300 mm. - IP65 (embedded cable)	N381.2 *			
				In line connector with led	N381.3			
				90° connector without led	N381.4			
				In line connector without led	N381.5			
			12 VDC	90° connector with led	N382.1			
				Cable 300 mm. - IP65 (embedded cable)	N382.2 *			
				In line connector with led	N382.3			
				90° connector without led	N382.4			
				In line connector without led	N382.5			
			6 VDC	90° connector with led	N384.1 *			
				Cable 300 mm. - IP65 (embedded cable)	N384.2 *			
				In line connector with led	N384.3 *			
				90° connector without led	N384.4 *			
				In line connector without led	N384.5 *			

The 10mm and 15mm solenoid valves are certified by UL in compliance with both Canadian and USA safety requirements as recognized component and included in the **UL file E206325** and bear the "UL Recognized Component" marking.
The 10mm and 15mm solenoid valves, since they are devices for "class 2 circuits", according with UL standard UL 429/CSA C22.2 N°139, are not considered dangerous for electric shock or fire and thus a **UL certification is not required for cables and connectors.**

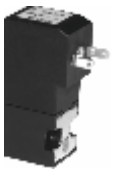
* = The c UL us Directive does not apply to these versions

	Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
10 mm ISO 2/2 N.C.		24 VDC	90° connector with led	P361.1			
			Cable 300 mm. - IP65 (embedded cable)	P361.2			
			In line connector with led	P361.3			
			90° connector without led	P361.4			
			In line connector without led	P361.5			
		12 VDC	90° connector with led	P362.1			
			Cable 300 mm. - IP65 (embedded cable)	P362.2			
			In line connector with led	P362.3			
			90° connector without led	P362.4			
			In line connector without led	P362.5			
		6 VDC	90° connector with led	P364.1			
			Cable 300 mm. - IP65 (embedded cable)	P364.2			
			In line connector with led	P364.3			
			90° connector without led	P364.4			
			In line connector without led	P364.5			
		24 VDC (SPEED-UP)	90° connector with led	P367.1			
			In line connector with led	P367.3			
			90° connector without led	P367.4			
			In line connector without led	P367.5			
3/2 N.C.		24 VDC	90° connector with led	P371.1	0 - 7 bar	14 Nl/min	mm 0,7
			Cable 300 mm. - IP65 (embedded cable)	P371.2			
			In line connector with led	P371.3			
			90° connector without led	P371.4			
			In line connector without led	P371.5			
		12 VDC	90° connector with led	P372.1			
			Cable 300 mm. - IP65 (embedded cable)	P372.2			
			In line connector with led	P372.3			
			90° connector without led	P372.4			
			In line connector without led	P372.5			
		6 VDC	90° connector with led	P374.1			
			Cable 300 mm. - IP65 (embedded cable)	P374.2			
			In line connector with led	P374.3			
			90° connector without led	P374.4			
			In line connector without led	P374.5			
		24 VDC (SPEED-UP)	90° connector with led	P377.1			
			In line connector with led	P377.3			
			90° connector without led	P377.4			
			In line connector without led	P377.5			
10 mm ISO SPEED-UP		24 VDC (SPEED-UP)	Reverse version, centre pins	P377.40C	0 - 7 bar	24 Nl/min	mm 1,1
			Reverse version, right pins	P377.40D			
			Reverse version, left pins	P377.40S			
			Standard version, centre pins	P377.41C			
			Standard version, right pins	P377.41D			
			Standard version, left pins	P377.41S			
			Connector with cable L = 300 mm	371.300	/	/	/
			Connector with cable L = 600 mm	371.600			
			Connector with cable L = 1000 mm	371.1000			
			Individual base	395.01			
			Individual base for ISO 15218-2003 version	P395.01			
			Multiple base	395.*			
			Multiple base for ISO 15218-2003 version	P395.*			
			Closing plate	395.00			

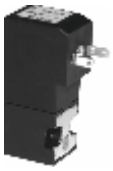
* = Number of seats (from 2 to 10)

The cULus Directive does not apply to these versions

		Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
15 mm	3/2 N.C.		24 VDC	Cables (300 mm)	N331.2A	0 - 10 bar	30 Nl/min.	mm 1,1
					N331.2B	0 - 7 bar	50 Nl/min.	mm 1,5
				Faston	N331.0A	0 - 10 bar	30 Nl/min.	mm 1,1
					N331.0B	0 - 7 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N331.1A	0 - 10 bar	30 Nl/min.	mm 1,1
					N331.1B	0 - 7 bar	50 Nl/min.	mm 1,5
			12 VDC	Faston	N332.0A	0 - 10 bar	30 Nl/min.	mm 1,1
					N332.0B	0 - 7 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N332.1A	0 - 10 bar	30 Nl/min.	mm 1,1
					N332.1B	0 - 7 bar	50 Nl/min.	mm 1,5
			24V 50-60 Hz	Faston	N335.0A	0 - 10 bar	30 Nl/min.	mm 1,1
					N335.0B	0 - 7 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N335.1A	0 - 10 bar	30 Nl/min.	mm 1,1
					N335.1B	0 - 7 bar	50 Nl/min.	mm 1,5
			110V 50-60 Hz	Faston	N336.0A	0 - 10 bar	30 Nl/min.	mm 1,1
					N336.0B	0 - 7 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N336.1A	0 - 10 bar	30 Nl/min.	mm 1,1
					N336.1B	0 - 7 bar	50 Nl/min.	mm 1,5
			230V 50-60 Hz	Faston	N337.0A	0 - 10 bar	30 Nl/min.	mm 1,1
					N337.0B	0 - 7 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N337.1A	0 - 10 bar	30 Nl/min.	mm 1,1
					N337.1B	0 - 7 bar	50 Nl/min.	mm 1,5
			24 VDC 1 W	Faston	N338.0E *	0 - 10 bar	20 Nl/min.	mm 0,8
				Faston EN 17301-803(ex DIN 43650)	N338.1E *			
	3/2 N.O.		24 VDC	Cables (300 mm)	N341.2A *	0 - 8 bar	30 Nl/min.	mm 1,1
					N341.2B *	0 - 5 bar	50 Nl/min.	mm 1,5
				Faston	N341.0A	0 - 8 bar	30 Nl/min.	mm 1,1
					N341.0B	0 - 5 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N341.1A	0 - 8 bar	30 Nl/min.	mm 1,1
					N341.1B	0 - 5 bar	50 Nl/min.	mm 1,5
			12 VDC	Faston	N342.0A	0 - 8 bar	30 Nl/min.	mm 1,1
					N342.0B	0 - 5 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N342.1A	0 - 8 bar	30 Nl/min.	mm 1,1
					N342.1B	0 - 5 bar	50 Nl/min.	mm 1,5
			24V 50-60 Hz	Faston	N345.0A	0 - 8 bar	30 Nl/min.	mm 1,1
					N345.0B	0 - 5 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N345.1A	0 - 8 bar	30 Nl/min.	mm 1,1
					N345.1B	0 - 5 bar	50 Nl/min.	mm 1,5
			110V 50-60 Hz	Faston	N346.0A	0 - 8 bar	30 Nl/min.	mm 1,1
					N346.0B	0 - 5 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N346.1A	0 - 8 bar	30 Nl/min.	mm 1,1
					N346.1B	0 - 5 bar	50 Nl/min.	mm 1,5
			230V 50-60 Hz	Faston	N347.0A	0 - 8 bar	30 Nl/min.	mm 1,1
					N347.0B	0 - 5 bar	50 Nl/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N347.1A	0 - 8 bar	30 Nl/min.	mm 1,1
					N347.1B	0 - 5 bar	50 Nl/min.	mm 1,5
			24 VDC 1 W	Faston	N348.0E *	0÷10 bar	20 Nl/min.	mm 0,8
				Faston EN 17301-803(ex DIN 43650)	N348.1E *			



* = The c UL us Directive does not apply to these versions

	Symbol		Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
15 mm 3/2 N.C. 		Faston ground	Cables (300 mm)	N339.2A	0 - 10 bar	30 Nl/min.	mm 1,1
				N339.2B	0 - 7 bar	50 Nl/min.	mm 1,5
			Faston	N339.0A	0 - 10 bar	30 Nl/min.	mm 1,1
				N339.0B	0 - 7 bar	50 Nl/min.	mm 1,5
			Faston EN 17301-803 (ex DIN 43650)	N339.1A	0 - 10 bar	30 Nl/min.	mm 1,1
				N339.1B	0 - 7 bar	50 Nl/min.	mm 1,5
		24 VDC 1 W	Faston	N339.0E *	0 - 10 bar	18 Nl/min.	mm 0,8
			Faston EN 17301-803(ex DIN 43650)	N339.1E *			
3/2 N.O. 		Faston ground	Cables (300 mm)	N349.2A	0 - 8 bar	30 Nl/min.	mm 1,1
				N349.2B	0 - 5 bar	50 Nl/min.	mm 1,5
			Faston	N349.0A	0 - 8 bar	30 Nl/min.	mm 1,1
				N349.0B	0 - 5 bar	50 Nl/min.	mm 1,5
			Faston EN 17301-803 (ex DIN 43650)	N349.1A	0 - 8 bar	30 Nl/min.	mm 1,1
				N349.1B	0 - 5 bar	50 Nl/min.	mm 1,5
		24 VDC 1 W	Faston	N349.0E *	0 - 10 bar	18 Nl/min.	mm 0,8
			Faston EN 17301-803(ex DIN 43650)	N349.1E *			

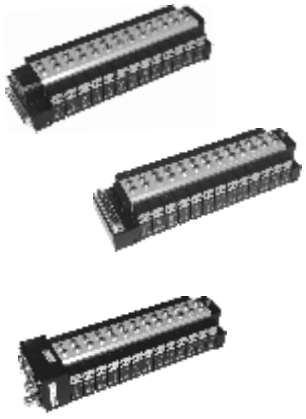
* = The c UL us Directive does not apply to these versions

Accessories

Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
Standard connector	315.11.00	/	/	/
Connectors with LED	315.11.**L			
Connectors for Faston EN 17301-803(ex DIN 43650) normal	315.12.00			
Connector for Faston EN 17301-803(ex DIN 43650) with LED	315.12.**L			
Individual base	355.01			
Multiple base tube Ø4	354.*			
Multiple base M5 thread	355.*			
Closing plate	355.00			

* Number of seats (from 2 to 10)
* * **01** = 24 V AC/DC **02** = 110 V 50-60 Hz **03** = 230 V 50-60 Hz

15 mm solenoid valves manifold with electric multipoint connection



Code

35M . NW . _ _ . 0 _ .

Connector type
0 = in line connector
9 = 90° connector
C = with CANopen® node

Connections size and type
3 = quick fitting tube Ø3
C = quick fitting tube Ø3.17
4 = quick fitting tube Ø4
A = M5 thread

N° positions
A = 10 positions
B = 12 positions
C = 14 positions
D = 16 positions
E = 18 positions
F = 20 positions
G = 22 positions
H = 24 positions
L = 26 positions
M = 28 positions
N = 30 positions
P = 32 positions

N° positions plugged side SX
0 = 00 positions
...
9 = 09 positions
A = 10 positions
B = 11 positions
C = 12 positions
D = 13 positions
E = 14 positions
F = 15 positions
G = 16 positions

N° positions plugged side DX
0 = 00 positions
...
9 = 09 positions
A = 10 positions
B = 11 positions
C = 12 positions
D = 13 positions
E = 14 positions
F = 15 positions
G = 16 positions

Valve type
A = N331.R0A (EV. 3/2 N.C. 24 VDC d.1,1) *
B = N331.R0B (EV. 3/2 N.C. 24 VDC d.1,5) *
C = N338.R0E (EV. 3/2 N.C. 24 VDC 1 W d.0,8) *
D = N341.R0A (EV. 3/2 N.O. 24 VDC d.1,1) *
E = N341.R0B (EV. 3/2 N.O. 24 VDC d.1,5) *
F = N335.R0A (EV. 3/2 N.C. 24 VDC d.1,1) *

*** NOTE:**
The letter "R" indicates that the coil is mounted upside-down (faces down). For prices and technical features of this valves please refer to the correspondent standard version (not R) included in the price list and catalogue.

Overall dimensions Manifold with Optyma-F serial system (slave + input modules)

Code

32 OUT VERSION
C3 = CANopen® 32OUT
D3 = DeviceNet 32OUT
P3 = PROFIBUS 32OUT
A3 = EtherCAT® 32OUT (Serie 5700)
I3 = EtherNet / IP 32OUT
N3 = PROFINET IO RT/IRT 32OUT
L3 = Powerlink 32OUT

INPUT MODULES
A = No module
D1 = 8 M8 digital inputs modules
D3 = 16IN digital inputs (SUB-D 25P) module
T1 = 2 analogue inputs 0-5V module
T2 = 2 analogue inputs 0-10V module
C1 = 2 analogue inputs 0-20mA module
C2 = 2 analogue inputs 4-20mA module

Connections size and type
3 = quick fitting tube Ø3
C = quick fitting tube Ø3.17
4 = quick fitting tube Ø4
A = M5 thread

35S . _ . _ _ . 0 _ .

N° positions
A = 10 positions
B = 12 positions
C = 14 positions
D = 16 positions
E = 18 positions
F = 20 positions
G = 22 positions
H = 24 positions
L = 26 positions
M = 28 positions
N = 30 positions
P = 32 positions

N° positions plugged side left
0 = 00 positions
...
9 = 09 positions
A = 10 positions
B = 11 positions
C = 12 positions
D = 13 positions
E = 14 positions
F = 15 positions
G = 16 positions

N° positions plugged side right
0 = 00 positions
...
9 = 09 positions
A = 10 positions
B = 11 positions
C = 12 positions
D = 13 positions
E = 14 positions
F = 15 positions
G = 16 positions

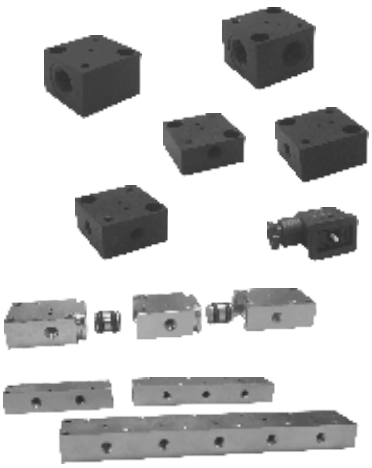
Valve type
A = N331.R0A (EV. 3/2 N.C. 24 VDC d.1,1) *
B = N331.R0B (EV. 3/2 N.C. 24 VDC d.1,5) *
C = N338.R0E (EV. 3/2 N.C. 24 VDC 1 W d.0,8) *
D = N341.R0A (EV. 3/2 N.O. 24 VDC d.1,1) *
E = N341.R0B (EV. 3/2 N.O. 24 VDC d.1,5) *
G = N321.R0A (EV.2/2 N.C. 24VDC d.1,1) *
H = N321.R0B (EV.2/2 N.C. 24VDC d.1,5) *

*** NOTE:**
The "R"letter indicates that the coil is mounted upside-down (faces down). For prices and technical features of these valves please refer to the correspondent standard version (not R) included in the price list and catalogue.

22 mm

Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
	Mechanic N.C.		M2	0 - 10 bar	53 Nl/min.	1,3 mm
	Mechanic N.C. treaded lock nut		M2P			
	Mechanic N.O.		M2/1			
	Mechanic N.C. (2 W 24 VDC)		M2/9	0 - 10 bar	20 Nl/min.	0,9 mm
	Mechanic 3/2 N.O.		MM7	0 - 10 bar	53 Nl/min.	1,3 mm
	Direct current	Coil 24DC (8 Watt)	MB10/1	/	/	/
	Alternate current 50 Hz	Coil 24VDC	MB17/1			
		Coil 48VDC	MB21/1			
		Coil 110V	MB22/1			
		Coil 230V	MB24/1			
	Alternate current 60 Hz	Coil 24V	MB37/1			
		Coil 110V	MB39/1			
		Coil 230V	MB41/1			
	Alternate current 50-60 Hz	Coil 24V	MB56/1			
		Coil 110V	MB57/1			
		Coil 230V	MB58/1			
	Direct current	Coil 12VDC	MB4	/	/	/
		Coil 24VDC	MB5			
		Coil 48VDC	MB6			
		Coil 24VDC (2 Watt)	MB9 *			
	Alternate current 50 Hz	Coil 24V	MB17			
		Coil 48V	MB21			
		Coil 110V	MB22			
		Coil 230V	MB24			
	Alternate current 60 Hz	Coil 24V	MB37			
		Coil 110V	MB39			
		Coil 230V	MB41			
	Alternate current 50-60 Hz	Coil 24V	MB56			
		Coil 110V	MB57			
		Coil 230V	MB58			

* Use only with M2/9

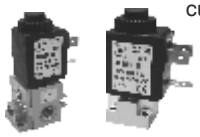
	Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
		Alternate current Low consumption 50-60 Hz	Microsolenoid 24 V	MB 66	/	/	/
			Microsolenoid 110 V	MB 67			
			Microsolenoid 230 V	MB 68			
3/2 N.C.		Direct current	Microsolenoid valve 12 VDC	M2.4	0 - 10 bar	53 Nl/min	mm 1,3
			Microsolenoid valve 24 VDC	M2.5			
			Microsolenoid valve 48 VDC	M2.6			
			Micro. valve 24 VDC (2 Watt)	M2.9	0 - 10 bar	20 Nl/min	mm 0,9
		Alternate current 50 Hz	Microsolenoid valve 24 V	M2.17	0 - 10 bar	53 Nl/min	mm 1,3
			Microsolenoid valve 48 V	M2.21			
			Microsolenoid valve 110 V	M2.22			
			Microsolenoid valve 230 V	M2.24			
		Alternate current 60 Hz	Microsolenoid valve 24 V	M2.37			
			Microsolenoid valve 110 V	M2.39			
			Microsolenoid valve 230 V	M2.41			
		Alternate current 50-60 Hz	Microsolenoid valve 24 V	M2.56			
			Microsolenoid valve 110 V	M2.57			
			Microsolenoid valve 230 V	M2.58			
		Alternate current Low consumption 50-60 Hz	Microsolenoid valve 24 V	M2.66			
			Microsolenoid valve 110 V	M2.67			
			Microsolenoid valve 230 V	M2.68			
3/2 N.O.		Direct current	Microsolenoid valve12 VDC	M2/1.4	0 - 10 bar	53 Nl/min	mm 1,3
			Microsolenoid valve 24 VDC	M2/1.5			
			Microsolenoid valve 48 VDC	M2/1.6			
			Micro. valve 24 VDC (2 Watt)	M2/1.9	0 - 10 bar	20 Nl/min	mm 0,9
		Alternate current 50 Hz	Microsolenoid valve 24 V	M2/1.17	0 - 10 bar	53 Nl/min	mm 1,3
			Microsolenoid valve 48 V	M2/1.21			
			Microsolenoid valve 110 V	M2/1.22			
			Microsolenoid valve 230 V	M2/1.24			
		Alternate current 60 Hz	Microsolenoid valve 24 V	M2/1.37			
			Microsolenoid valve 110 V	M2/1.39			
			Microsolenoid valve 230 V	M2/1.41			
		Alternate current 50-60 Hz	Microsolenoid valve 24 V	M2/1.56			
			Microsolenoid valve 110 V	M2/1.57			
			Microsolenoid valve 230 V	M2/1.58			
		Individual base ports in line - M5 thread		305.00.00	/	/	/
		Individual base ports at 90° - M5 thread		305.90.00			
		Individual base ports in line - G 1/8" thread		305.00.18			
		Individual base ports at 90° - G 1/8" thread		305.90.18			
		Modular base for series mounting -initial		305.05.00			
		Mod. base for ser. mounting - intermediate		305.06.00			
		Modular base for series mounting - last		305.07.00			
		Bored spacer		305.05.01			
		Solid spacer		305.05.02			
		Multiple integral bases		305.08.*			
		External feeding base		305.10.05			
		Connector normal		305.11.00			
		Connector Led		305.11.**L			

* Number of seats (from 2 to 5)
* * **01** = 24 V AC/DC **02** = 110 V 50-60 Hz **03** = 230 V 50-60 Hz

		Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
22 mm Modular	3/2 N.C.		Mechanic G 1/8"		305.M1	0 - 10 bar	53 Nl/min	mm 1,3
			Mechanic M5		355.M1			
			Quick fitting for tube Ø4		345.M1			
			Mechanic G 1/8" (2 W 24 VDC)		305.M1/9	0 - 10 bar	35 Nl/min	mm 1,1
			Mechanic M5 (2 W 24 VDC)		355.M1/9			
			Quick fitting for tube Ø4 - (2 W 24 VDC)		345.M1/9			
	3/2 N.O.		Mechanic G 1/8"		305.M1/1	0 - 10 bar	53 Nl/min	mm 1,3
			Mechanic M5		355.M1/1			
			Mechanic- quick fitting for tube Ø4		345.M1/1			
			Direct current	Microsolenoid 12 VDC	MB4	/	/	/
				Microsolenoid 24 VDC	MB5			
				Microsolenoid 48 VDC	MB6			
				Microsolenoid 24 VDC (2 Watt)	MB9			
			Alternate current 50 Hz	Microsolenoid 24 V	MB17			
				Microsolenoid 48 V	MB21			
				Microsolenoid 110 V	MB22			
				Microsolenoid 230 V	MB24			
			Alternate current 60 Hz	Microsolenoid 24 V	MB37			
				Microsolenoid 110 V	MB39			
				Microsolenoid 230 V	MB41			
			Alternate current 50-60 Hz	Microsolenoid 24 V	MB56			
				Microsolenoid 110 V	MB57			
				Microsolenoid 230 V	MB58			
			Direct current	Microsolenoid 24 VDC (8 Watt)	MB10/1			
			Alternate current 50 Hz	Microsolenoid 24 V	MB17/1			
				Microsolenoid 48 V	MB21/1			
				Microsolenoid 110 V	MB22/1			
				Microsolenoid 230 V	MB24/1			
			Alternate current 60 Hz	Microsolenoid 24 V	MB37/1			
				Microsolenoid 110 V	MB39/1			
				Microsolenoid 230 V	MB41/1			
			Alternate current 50-60 Hz	Microsolenoid 24 V	MB56/1			
				Microsolenoid 110 V	MB57/1			
				Microsolenoid 230 V	MB58/1			
			Alternate current Low consumption 50-60 Hz	Microsolenoid 24 V	MB66			
				Microsolenoid 110 V	MB67			
				Microsolenoid 230 V	MB68			
G 1/8"	3/2 N.C.		Direct current	Microsolenoid valve 12 VDC	305.M4	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 24 VDC	305.M5			
				Microsolenoid valve 48 VDC	305.M6			
				Microsol. valve 24 VDC (2 Watt)	305.M9	0 - 10 bar	35 Nl/min	mm 1,1
			Alternate current 50 Hz	Microsolenoid valve 24 V	305.M17	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 48 V	305.M21			
				Microsolenoid valve 110 V	305.M22			
				Microsolenoid valve 230 V	305.M24			
			Alternate current 60 Hz	Microsolenoid valve 24 V	305.M37			
				Microsolenoid valve 110 V	305.M39			
				Microsolenoid valve 230 V	305.M41			

		Symbol		Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8"	3/2 N.C.		Alternate current 50-60 Hz	Microsolenoid valve 24 V	305.M56	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 110 V	305.M57			
				Microsolenoid valve 230 V	305.M58			
			Alternate current Low consumption 50-60 Hz	Microsolenoid valve 24 V	305.M66			
				Microsolenoid valve 110 V	305.M67			
				Microsolenoid valve 230 V	305.M68			
	3/2 N.O.		Direct current	Microsol. valve 24 VDC (8 Watt)	305.M10/1			
			Alternate current 50 Hz	Microsolenoid valve 24 V	305.M17/1			
				Microsolenoid valve 48 V	305.M21/1			
				Microsolenoid valve 110 V	305.M22/1			
				Microsolenoid valve 230 V	305.M24/1			
			Alternate current 60 Hz	Microsolenoid valve 24 V	305.M37/1			
				Microsolenoid valve 110 V	305.M39/1			
				Microsolenoid valve 230 V	305.M41/1			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	305.M56/1			
				Microsolenoid valve 110 V	305.M57/1			
				Microsolenoid valve 230 V	305.M58/1			
M5	3/2 N.C.		Direct current	Microsolenoid valve 12 VDC	355.M4	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 24 VDC	355.M5			
				Microsolenoid valve 48 VDC	355.M6			
				Microsol. valve 24 VDC (2 Watt)	355.M9	0 - 10 bar	35 Nl/min	mm 1,1
			Alternate current 50 Hz	Microsolenoid valve 24 V	355.M17	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 48 V	355.M21			
				Microsolenoid valve 110 V	355.M22			
				Microsolenoid valve 230 V	355.M24			
			Alternate current 60 Hz	Microsolenoid valve 24 V	355.M37			
				Microsolenoid valve 110 V	355.M39			
				Microsolenoid valve 230 V	355.M41			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	355.M56			
				Microsolenoid valve 110 V	355.M57			
				Microsolenoid valve 230 V	355.M58			
			Alternate current low Consumption 50-60 Hz	Microsolenoid valve 24 V	355.M66			
				Microsolenoid valve 110 V	355.M67			
				Microsolenoid valve 230 V	355.M68			
	3/2 N.O.		Direct current	Microsol. valve 24 VDC (8 Watt)	355.M10/1			
			Alternate current 50 Hz	Microsolenoid valve 24 V 50 Hz	355.M17/1			
				Microsolenoid valve 48 V 50 Hz	355.M21/1			
				Microsolenoid valve 110 V 50 Hz	355.M22/1			
				Microsolenoid valve 230 V 50 Hz	355.M24/1			
			Alternate current 60 Hz	Microsolenoid valve 24 V 60 Hz	355.M37/1			
				Microsolenoid valve 110 V 60 Hz	355.M39/1			
				Microsolenoid valve 230 V 60 Hz	355.M41/1			
			Alternate current 50-60 Hz	Microsol. valve 24 V 50-60 Hz	355.M56/1			
				Microsol. valve 110 V 50-60 Hz	355.M57/1			
				Microsol. valve 230 V 50-60 Hz	355.M58/1			
Tube 4	3/2 N.C.		Direct current	Microsolenoid valve 12 VDC	345.M4	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 24 VDC	345.M5			
				Microsolenoid valve 48 VDC	345.M6			

		Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
Tube 4	3/2 N.C.		Direct current	Microsol. valve 24 VDC (2 Watt)	345.M9	0 - 10 bar	35 Nl/min	mm 1,1
			Alternate current 50 Hz	Microsolenoid valve 24 V	345.M17	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 48 V	345.M21			
				Microsolenoid valve 110 V	345.M22			
				Microsolenoid valve 230 V	345.M24			
			Alternate current 60 Hz	Microsolenoid valve 24 V	345.M37			
				Microsolenoid valve 110 V	345.M39			
				Microsolenoid valve 230 V	345.M41			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	345.M56			
				Microsolenoid valve 110 V	345.M57			
				Microsolenoid valve 230 V	345.M58			
			Alternate current Low consumption 50-60 Hz	Microsolenoid valve 24 V	345.M66			
				Microsolenoid valve 110 V	345.M67			
				Microsolenoid valve 230 V	345.M68			
	3/2 N.O.		Direct current	Microsol. valve 24 VDC (8 Watt)	345.M10/1			
			Alternate current 50 Hz	Microsolenoid valve 24 V	345.M17/1			
				Microsolenoid valve 48 V	345.M21/1			
				Microsolenoid valve 110 V	345.M22/1			
				Microsolenoid valve 230 V	345.M24/1			
			Alternate current 60 Hz	Microsolenoid valve 24 V	345.M37/1			
				Microsolenoid valve 110 V	345.M39/1			
				Microsolenoid valve 230 V	345.M41/1			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	345.M56/1			
				Microsolenoid valve 110 V	345.M57/1			
				Microsolenoid valve 230 V	345.M58/1			

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
22 mm bistable	3/2 N.C. direct current		Microsol. valve for distrib. and base 24 VDC	M5/B	0 - 10 bar	53 Nl/min	mm 1,3
			Modular microsol. valve G 1/8" 24 VDC.	305.M5/B			
			Mod. microsol. valve M5 24 VDC	355.M5/B			
			Microsol. valve - fitting for tube Ø4 24 VDC	345.M5/B			
			Coil for bistable 24 VDC	MBB5	/	/	/

	Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
30 mm CNOMO		Mechanic CNOMO manual 1 position N.C.	M3P	0 - 10 bar	53 Nl/min	mm 1,3
		Mechanic CNOMO manual 2 positions N.C	M3R			
		Mechanic CNOMO 2 Watt man. 1 pos. N.C.	M4P	0 - 10 bar	20 Nl/min	mm 0,9
		Mechanic CNOMO 2 Watt man. 2 pos. N.C.	M4R			
		Coil 24 VDC	MC5	/	/	/
		Coil 24 VDC (2 Watt)	MC9			
		Coil 24 V 50-60 Hz	MC56			
		Coil 110 V 50-60 Hz	MC57			
		Coil 230 V 50-60 Hz	MC58			

		Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
32 mm	3/2 N.C.		Direct current	Solenoid valve 6 VDC	S2	0 - 10 bar	80 Nl/min.	mm 1,8
				Solenoid valve 12 VDC	S4			
				Solenoid valve 24 VDC	S5			
				Solenoid valve 48 VDC	S6			
			Alternate current 50 Hz	Solenoid valve 12 V	S16			
				Solenoid valve 24 V	S17			
				Solenoid valve 32 V	S19			
				Solenoid valve 42 V	S20			
				Solenoid valve 48 V	S21			
				Solenoid valve 110 V	S22			
				Solenoid valve 115 V	S23			
				Solenoid valve 230 V	S24			
			Alternate current 60 Hz	Solenoid valve 12 V	S36			
				Solenoid valve 24 V	S37			
				Solenoid valve 48 V	S38			
				Solenoid valve 110 V	S39			
				Solenoid valve 115 V	S40			
				Solenoid valve 230 V	S41			
			Alternate current 50-60 Hz	Solenoid valve 24 V	S56			
				Solenoid valve 110 V	S57			
				Solenoid valve 230 V	S58			
	3/2 N.O.		Direct current	Solenoid valve 6 VDC	S2/1	0 - 10 bar	80 Nl/min.	mm 1,8
				Solenoid valve 12 VDC	S4/1			
				Solenoid valve 24 VDC	S5/1			
				Solenoid valve 48 VDC	S6/1			
			Alternate current 50 Hz	Solenoid valve 12 V	S16/1			
				Solenoid valve 24 V	S17/1			
				Solenoid valve 32 V	S19/1			
				Solenoid valve 42 V	S20/1			
				Solenoid valve 48 V	S21/1			
				Solenoid valve 110 V	S22/1			
				Solenoid valve 115 V	S23/1			
				Solenoid valve 230 V	S24/1			
			Alternate current 60 Hz	Solenoid valve 12 V	S36/1			
				Solenoid valve 24 V	S37/1			
				Solenoid valve 48 V	S38/1			
				Solenoid valve 110 V	S39/1			
				Solenoid valve 115 V	S40/1			
				Solenoid valve 230 V	S41/1			
			Alternate current 50-60 Hz	Solenoid valve 24 V	S56/1			
				Solenoid valve 110 V	S57/1			
				Solenoid valve 230 V	S58/1			

		Symbol	Description		Code	Max. pressure	Flow at 6 bar, Δp=1	Orifice size
10 mm	2/2 N.C.		24 VDC	90° connector with led	UN361.1	0 - 7 bar	14 Nl/min	mm 0,7
				Cable (300 mm)	UN361.2			
				In line connector with led	UN361.3			
				90° connector without led	UN361.4			
				In line connector without led	UN361.5			
				Cable (300 mm) coil incorporated (IP65)	UN361.32			
			12 VDC	90° connector with led	UN362.1			
				Cable (300 mm)	UN362.2			
				In line connector with led	UN362.3			
				90° connector without led	UN362.4			
				In line connector without led	UN362.5			
				Cable (300 mm) coil incorporated (IP65)	UN362.32			
	3/2 N.C.		24 VDC	90° connector with led	UN371.1			
				Cable (300 mm)	UN371.2			
				In line connector with led	UN371.3			
				90° connector without led	UN371.4			
				In line connector without led	UN371.5			
				Cable (300 mm) coil incorporated (IP65)	UN371.32			
			12 VDC	90° connector with led	UN372.1			
				Cable (300 mm)	UN372.2			
				In line connector with led	UN372.3			
				90° connector without led	UN372.4			
				In line connector without led	UN372.5			
				Cable (300 mm) coil incorporated (IP65)	UN372.32			
	3/2 N.O.		24 VDC	90° connector with led	UN381.1			
				Cable (300 mm)	UN381.2			
				In line connector with led	UN381.3			
				90° connector without led	UN381.4			
				In line connector without led	UN381.5			
				Cable (300 mm) coil incorporated (IP65)	UN381.32			
			12 VDC	90° connector with led	UN382.1			
				Cable (300 mm)	UN382.2			
				In line connector with led	UN382.3			
				90° connector without led	UN382.4			
				In line connector without led	UN382.5			
				Cable (300 mm) coil incorporated (IP65)	UN382.32			

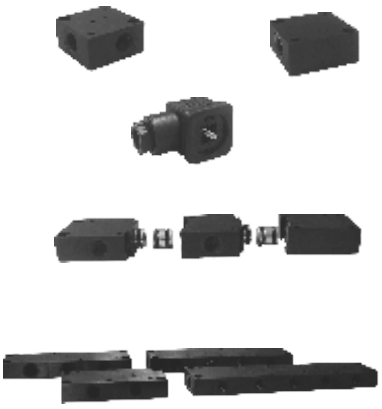
		Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
15 mm	3/2 N.C.		24 VDC	Cable (300 mm)	UN331.2A	0 - 10 bar	30 Nl/min	mm 1,1
					UN331.2B	0 - 7 bar	50 Nl/min	mm 1,5
				Faston	UN331.0A	0 - 10 bar	30 Nl/min	mm 1,1
					UN331.0B	0 - 7 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN331.1A	0 - 10 bar	30 Nl/min	mm 1,1
					UN331.1B	0 - 7 bar	50 Nl/min	mm 1,5
			12 VDC	Faston	UN332.0A	0 - 10 bar	30 Nl/min	mm 1,1
					UN332.0B	0 - 7 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN332.1A	0 - 10 bar	30 Nl/min	mm 1,1
					UN332.1B	0 - 7 bar	50 Nl/min	mm 1,5

The solenoid valves are certified by UL in compliance with both Canadian and USA safety requirements as recognized component and included in the **UL file E206325** and bear the "UL Recognized Component" marking.
The 10mm and 15mm solenoid valves, since they are devices for "class 2 circuits", according with UL standard UL 429/CSA C22.2 N°139, are not considered dangerous for electric shock or fire and thus a **UL certification is not required for cables and connectors**.

		Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
15 mm	3/2 N.C.		24V 50-60 Hz	Faston	UN335.0A	0 - 10 bar	30 Nl/min	mm 1,1
					UN335.0B	0 - 7 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN335.1A	0 - 10 bar	30 Nl/min	mm 1,1
					UN335.1B	0 - 7 bar	50 Nl/min	mm 1,5
			110V 50-60 Hz	Faston	UN336.0A	0 - 10 bar	30 Nl/min	mm 1,1
					UN336.0B	0 - 7 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN336.1A	0 - 10 bar	30 Nl/min	mm 1,1
					UN336.1B	0 - 7 bar	50 Nl/min	mm 1,5
			230V 50-60 Hz	Faston	UN337.0A	0 - 10 bar	30 Nl/min	mm 1,1
					UN337.0B	0 - 7 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN337.1A	0 - 10 bar	30 Nl/min	mm 1,1
					UN337.1B	0 - 7 bar	50 Nl/min	mm 1,5
	3/2 N.O.		24 VDC	Cables (300 mm)	UN341.2A	0 - 8 bar	30 Nl/min	mm 1,1
					UN341.2B	0 - 5 bar	50 Nl/min	mm 1,5
				Faston	UN341.0A	0 - 8 bar	30 Nl/min	mm 1,1
					UN341.0B	0 - 5 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN341.1A	0 - 8 bar	30 Nl/min	mm 1,1
					UN341.1B	0 - 5 bar	50 Nl/min	mm 1,5
			12 VDC	Faston	UN342.0A	0 - 8 bar	30 Nl/min	mm 1,1
					UN342.0B	0 - 5 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN342.1A	0 - 8 bar	30 Nl/min	mm 1,1
					UN342.1B	0 - 5 bar	50 Nl/min	mm 1,5
			24V 50-60 Hz	Faston	UN345.0A	0 - 8 bar	30 Nl/min	mm 1,1
					UN345.0B	0 - 5 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN345.1A	0 - 8 bar	30 Nl/min	mm 1,1
					UN345.1B	0 - 5 bar	50 Nl/min	mm 1,5
			110V 50-60 Hz	Faston	UN346.0A	0 - 8 bar	30Nl/min	mm 1,1
					UN346.0B	0 - 5 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN346.1A	0 - 8 bar	30 Nl/min	mm 1,1
					UN346.1B	0 - 5 bar	50 Nl/min	mm 1,5
			230V 50-60 Hz	Faston	UN347.0A	0 - 8 bar	30 Nl/min	mm 1,1
					UN347.0B	0 - 5 bar	50 Nl/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN347.1A	0 - 8 bar	30 Nl/min	mm 1,1
					UN347.1B	0 - 5 bar	50 Nl/min	mm 1,5

		Symbol	Description		Code	Max. pressure	Flow at 6 bar, Δp=1	Orifice size
	3/2 N.C.		Alternate current 50-60 Hz	Microsolenoid valve 24 V	UM2.56	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 110 - 120 V	UM2.57			
				Microsolenoid valve 230 V	UM2.58			
	3/2 N.O.		Direct current	Microsolenoid valve 12 VDC	UM2/1.4			
				Microsolenoid valve 24 VDC	UM2/1.5			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	UM2/1.56			
				Microsolenoid valve 110 - 120 V	UM2/1.57			
				Microsolenoid valve 230 V	UM2/1.58			
22 mm Modular	N.C.	/	Direct current	Coil 12 VDC	UMB4	/	/	/
				Coil 24 VDC	UMB5			
			Alternate current 50-60 Hz	Coil 24 V	UMB56			
				Coil 110 - 120 V	UMB57			
				Coil 230 V	UMB58			
	N.O.	/	Direct current	Coil 24 VDC (8 Watt)	UMB10/1			
			Alternate current 50-60 Hz	Coil 24 V	UMB56/1			
				Coil 110 - 120 V	UMB57/1			
				Coil 230 V	UMB58/1			
G 1/8"	3/2 N.C.		Direct current	Microsolenoid valve 12 VDC	U305.M4	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 24 VDC	U305.M5			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	U305.M56			
				Microsolenoid valve 110 - 120 V	U305.M57			
				Microsolenoid valve 230 V	U305.M58			
	3/2 N.O.		Direct current	Microsol. valve 24 VDC (8 Watt)	U305.M10/1			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	U305.M56/1			
				Microsolenoid valve 110 - 120 V	U305.M57/1			
				Microsolenoid valve 230 V	U305.M58/1			
M5	3/2 N.C.		Direct current	Microsolenoid valve 12 VDC	U355.M4	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid valve 24 VDC	U355.M5			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	U355.M56			
				Microsolenoid valve 110 - 120 V	U355.M57			
				Microsolenoid valve 230 V	U355.M58			
	3/2 N.O.		Direct current	Microsol. valve 24 VDC (8 Watt)	U355.M10/1			
			Alternate current 50-60 Hz	Microsolenoid valve 24 V	U355.M56/1			
				Microsolenoid valve 110 - 120 V	U355.M57/1			
				Microsolenoid valve 230 V	U355.M58/1			
Tube 4	3/2 N.C.		Direct current	Microsolenoid 12 VDC	U345.M4	0 - 10 bar	53 Nl/min	mm 1,3
				Microsolenoid 24 VDC	U345.M5			
			Alternate current 50-60 Hz	Microsolenoid 24 V	U345.M56			
				Microsolenoid 110 - 120 V	U345.M57			
				Microsolenoid 230V	U345.M58			
	3/2 N.O.		Direct current	Microsolenoid 24 VDC (8 W)	U345.M10/1			
			Alternate current 50-60 Hz	Microsolenoid 24 V	U345.M56/1			
				Microsolenoid 110 - 120 V	U345.M57/1			
				Microsolenoid 230 V	U345.M58/1			

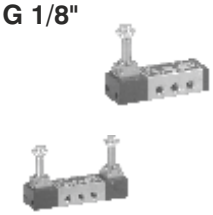
	Symbol	Description		Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
22 mm 		Direct current	Coil 12 VDC	UMB4	/	/	/
			Coil 24 VDC	UMB5			
		Alternate current 50-60 Hz	Coil 24 V	UMB56			
			Coil 110 - 120 V	UMB57			
			Coil 230 V	UMB58			
3/2 N.C.		Direct current	Microsolenoid 12 VDC	UM2.4	0 - 10 bar	53 Nl/min	mm 1,3
			Microsolenoid 24 VDC	UM2.5			
22 mm bistable 3/2 N.C. direct current 		Microsol. valve for distrib. and base 24 VDC		UM5/B	0 - 10 bar	53 Nl/min	mm 1,3
		Modular microsol. valve G 1/8" 24 VDC		U305.M5/B			
		Mod. microsol. valve M5 24 VDC		U355.M5/B			
		Microsol. valve - fitting for tube Ø4 24 VDC		U345.M5/B			
		Coil for bistable 24 VDC		UMBB5	/	/	/
30 mm 		Coil 24 VDC		UMC5	/	/	/
		Coil 24 V 50-60 Hz		UMC56			
		Coil 110 - 120 V 50-60 Hz		UMC57			
		Coil 230 V 50-60 Hz		UMC58			
32 mm 3/2 N.C. 		Direct current	Solenoid valve 12 VDC	US4	0 - 10 bar	80 Nl/min	mm 1,8
			Solenoid valve 24 VDC	US5			
		Alternate current 50-60 Hz	Solenoid valve 24 V	US56			
			Solenoid valve 110 - 120 V	US57			
			Solenoid valve 230 V	US58			
3/2 N.O.		Direct current	Solenoid valve 12 VDC	US4/1			
			Solenoid valve 24 VDC	US5/1			
		Alternate current 50-60 Hz	Solenoid valve 24 V	US56/1			
			Solenoid valve 110 - 120 V	US57/1			
			Solenoid valve 230 V	US58/1			

Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
	Individual base - in line holes - G 1/8" thread	300.04.00	/	/	/
	Individual base - holes at 90° - G 1/8" thread	300.04.90			
	Modular bases for series mounting - Initial	300.05.00			
	Mod. bases for ser. mount. - bored spacer	300.05.01			
	Mod. bases for ser. mounting - solid spacer	300.05.02			
	Mod. bases for ser. mounting - intermediate	300.06.00			
	Modular bases for series mounting - last	300.07.00			
	Multiple integral bases for series mounting	300.08.*			
	External feeding base	300.10.5			
	Connector normal	300.11.00			
	Connector with led	300.11.**L			
	Closing plate	300.12.00			

* Number of seats (from 2 to 5)
* * **01** = 24 V AC/DC **02** = 110 V 50-60 Hz **03** = 230 V 50-60 Hz

		symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
M5 Compact 	3/2		Solenoid - Spring	805.32.0.1.*	2÷10 bar	160Nl/min	mm 2,5
			Solenoid - Differential	805.32.0.12.*			
			Solenoid - Solenoid	805.32.0.0.*	1,5÷10 bar		
	5/2		Solenoid - Spring	805.52.0.1.*	2÷10 bar		
			Solenoid - Differential	805.52.0.12.*			
			Solenoid - Solenoid	805.52.0.0.*	1,5÷10 bar		
			Clip	800.00	/	/	/
			Closing plate	805.00			
			Manifolds	805.**			

** = Number of seats (from 2 to 10)
* = List of voltages: **01** = microsol. 12 VDC **02** = microsol. 24 VDC **05** = microsol. 24 VDC **06** = microsol. 110 VDC **07** = microsol. 230 VDC
The pilots solenoid valve used is a 15 mm 3/2 N.C. microsolenoid with Faston and 1.1 orifice.

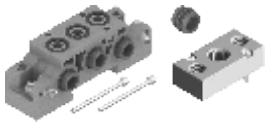
		symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" 	3/2		Solenoid - Spring	468.32.0.1.M2	2,5-10 bar	540Nl/min	mm 6
			Solenoid - Differential	468.32.0.12.M2			
			Solenoid - Solenoid	468.32.0.0.M2	2-10 bar		
	5/2		Solenoid - Spring	468.52.0.1.M2	2,5-10 bar		
			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	410Nl/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	468/1.32.0.1.M2	2,5-10 bar	540Nl/min	mm 6
			Solenoid - Differential	468/1.32.0.12.M2			
			Solenoid - Solenoid	468/1.32.0.0.M2	2-10 bar		
	5/2		Solenoid - Spring	468/1.52.0.1.M2	2,5-10 bar		
			Solenoid - Differential	468/1.52.0.12.M2			
			Solenoid - Solenoid	468/1.52.0.0.M2	2-10 bar		
	5/3		Solenoid - Solenoid - C.C.	468/1.53.31.0.0.M2	3-10 bar	410Nl/min	
			Solenoid - Solenoid - O.C.	468/1.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	468/1.53.33.0.0.M2			

		symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" 	3/2		Solenoid - Spring	488.32.0.1.*	2,5-10 bar	620Nl/min	mm 6
			Solenoid - Differential	488.32.0.12.*			
			Solenoid - Solenoid	488.32.0.0.*	2-10 bar		
	5/2		Solenoid - Spring	488.52.0.1.*	2,5-10 bar		
			Solenoid - Differential	488.52.0.12.*			
			Solenoid - Solenoid	488.52.0.0.*	2-10 bar		
	5/3		Solenoid - Solenoid - C.C.	488.53.31.0.0.*	2,5-10 bar	410Nl/min	
			Solenoid - Solenoid - O.C.	488.53.32.0.0.*			
			Solenoid - Solenoid - P.C.	488.53.33.0.0.*			
			Manifold for G 1/8" - G 1/4"	488.**	/	/	/
			Closing plate for G 1/8" - G 1/4"	488.00			

* Voltage: **M11** = Coil 24 VDC **M57** = Coil 110 V 50/60 Hz
M56 = Coil 24 V 50/60 Hz **M58** = Coil 230 V 50/60 Hz

** = Number of seats (from 2 to 10)

SOLENOID VALVES Tecno-ECO
(series 488, chapter 2)

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" 	3/2		Solenoid - Spring (self feeding)	T488.32.0.1.*	2,5-10 bar	620Nl/min	mm 6
			Solenoid - Spring (external feeding)	T488.32.0.1E.*			
			Solenoid - Differential (self-feeding)	T488.32.0.12.*			
			Solenoid - Differential (external feeding)	T488.32.0.12E.*			
			Solenoid - Solenoid (self feeding)	T488.32.0.0.*	2-10 bar		
			Solenoid - Solenoid (external feeding)	T488.32.0.0E.*			
	5/2		Solenoid - Spring (self feeding)	T488.52.0.1.*	2,5-10 bar		
			Solenoid - Spring (external feeding)	T488.52.0.1E.*			
			Solenoid - Differential (self-feeding)	T488.52.0.12.*			
			Solenoid - Differential (external feeding)	T488.52.0.12E.*			
			Solenoid - Solenoid (self feeding)	T488.52.0.0.*	2-10 bar		
			Solenoid - Solenoid (external feeding)	T488.52.0.0E.*			
	5/3		Solenoid - Solenoid (self feeding)	T488.53.31.0.0.*	3-10 bar	410Nl/min	
			Solenoid - Solenoid (self feeding)	T488.53.32.0.0.*			
			Solenoid - Solenoid (self feeding)	T488.53.33.0.0.*			
			Solenoid - Solenoid (external-feeding)	T488.53.31.0.0E.*			
			Solenoid - Solenoid (external-feeding)	T488.53.32.0.0E.*			
			Solenoid - Solenoid (external-feeding)	T488.53.33.0.0E.*			
			Manifold for G 1/8"	T488.**	/	/	/
			Closing plate	T488.00			
			Single complete base	T488.01			
			Complete modular bases (20 pcs.)	T488.01K			
			Hollow bush, complete with O-rings (50 pcs.)	T488.30K			
			Blank bush, complete with O-rings (50 pcs.)	T488.31K			
			Intermediate air intake with screw (5 pcs.)	T488.32K			
			Screw to suite solenoid valves (50 pcs.)	T488.33			
			Screw for joning bases (50 pcs.)	T488.34			
			Washer for screw for joning bases (50 pcs.)	T488.35			
			O-ring seal (50 pcs.)	T488.36			

* Voltage: **M9** = Coil 24 VDC 50/60 Hz (absorbed power continuos running 2 Watt)
M11 = Coil 24 VDC (absorbed power continuos running 3,8 Watt)
M56 = Coil 24 V 50/60 Hz (absorbed power at pick-up 9 VA, continuos running 6 VA)
M57 = Coil 110 V 50/60 Hz (absorbed power at pick-up 9 VA, continuos running 6 VA)
M58 = Coil 230 V 50/60 Hz (absorbed power at pick-up 9 VA, continuos running 6 VA)

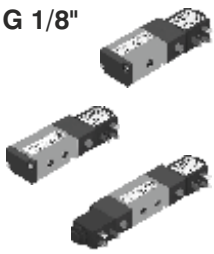
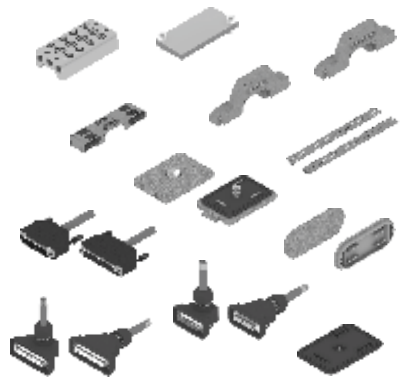
** = Number of seats (from 2 to 10)

VALVES AND SOLENOID VALVES
(series 800, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" Compact 	3/2		Solenoid - Spring	808.32.0.1._*	10 bar	520Nl/min	mm 4
			Solenoid - Differential	808.32.0.12._*			
			Solenoid - Solenoid	808.32.0.0._*			
	5/2		Solenoid - Spring	808.52.0.1_*			
			Solenoid - Differential	808.52.0.12._*			
			Solenoid - Solenoid	808.52.0.0_*			
	5/3		Pneumatic - Pneumatic - C.C.	808.53.31.11.11			
			Pneumatic - Pneumatic - O.C.	808.53.32.11.11			
			Solenoid - Solenoid - C.C.	808.53.31.0.0._*			
			Solenoid - Solenoid - O.C.	808.53.32.0.0._*			
 			Clip	800.00	/	/	/
			Closing plate	808.00			
			Manifolds	808.**			

* = List of voltages : **01** = microsol. 12 VDC **05** = microsol. 24 VAC **07** = microsol. 230 VAC
02 = microsol. 24 VDC **06** = microsol. 110 VAC
The pilots solenoid valve used is a 15 mm 3/2 N.C. microsolenoid with Faston and 1.1 orifice.

** = Number of seats (from 2 to 10)

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" 	3/2		Solenoid - Spring (self-feeding)	888⊗.32.A.39*	2-8 bar	790 Nl/min	5,8 mm
			Solenoid - Spring (self-feeding)	888⊗.32.C.39*			
			Solenoid - Solenoid	888⊗.32.00.35*			
	5/2		Solenoid - Spring (self-feeding)	888⊗.52.00.39*			
			Solenoid - Solenoid	888⊗.52.00.35*			
	5/3		Solenoid - Solenoid - C.C.	888⊗.53.31.35*	2,5-8 bar	440 Nl/min	
			Solenoid - Solenoid - O.C.	888⊗.53.32.35*			
			Solenoid - Solenoid - P.C.	888⊗.53.33.35*			
G 1/4" 	3/2		Solenoid - Spring (self-feeding)	8884.32.A.39*	2-8 bar	890 Nl/min	6,5 mm
			Solenoid - Spring (self-feeding)	8884.32.C.39*			
			Solenoid - Solenoid	8884.32.00.35*			
	5/2		Solenoid - Spring (self feeding)	8884.52.00.39*			
			Solenoid - Solenoid	8884.52.00.35*			
	5/3		Solenoid - Solenoid - C.C.	8884.53.31.35*	2,5-8 bar	540 Nl/min	
			Solenoid - Solenoid - O.C.	8884.53.32.35*			
			Solenoid - Solenoid - P.C.	8884.53.33.35*			
			Manifold (Valves 5/2 - 5/3)	888.**	/	/	/
			Closing plate	8880.00			
			Endplate, 25 poles IP65	888M.25.10			
			Endplate, 37 poles IP65	888M.37.10			
			Modular base, 2 positions IP65	888M.02.BM			
			Left and Right Power board PNP 24 VDC	888M.***			
			Closing plate	888M.22.PC			
			Multipolar base plug	888M.T			
			Seals	888M.22.G			
			In line cable complete with connector IP40	2400.**.**.00			
			Cable complete with connector, 25 Poles IP65	2300.25.**.***			
			Cable complete with connector, 37 Poles Ip65	2400.37.**.***			

* Voltage : **F05** = 24 VDC
F56 = 24 V (50-60 Hz)
F57 = 110 V (50-60 Hz)
F58 = 230 V (50-60 Hz)
F00 = without spool

** Number positions: From 02 to 10, 12 and 16

*** Number positions:
04 = 4 positions **12** = 12 positions
08 = 8 positions **16** = 16 positions
*** Type :
00 = Left side
01 = Right side

. Connector :
25 = 25 poles
37 = 37 poles
. Cable lenght :
03 = 3 meters **10** = 10 meters
05 = 5 meters

.* Cable lenght :
03 = 3 meters **10** = 10 meters
05 = 5 meters
.* Connector :
10 = In line
90 = 90° Angle

⊗ : **0** = Self-feeding
E = External feeding

SOLENOID VALVES
(series 464, chapter 2)

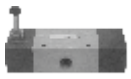
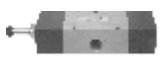
		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4" 	3/2		Solenoid - Spring	464.32.0.1.M2	2,5-10 bar	1360Nl/min	mm 8
			Solenoid - Differential	464.32.0.12.M2			
			Solenoid - Solenoid	464.32.0.0.M2	2-10 bar		
	5/2		Solenoid - Spring	464.52.0.1.M2	2,5-10 bar	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

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4" 	3/2		Solenoid - Spring (self feeding)	T424.32.0.1*	10 bar	1050Nl/min	mm 8,5
			Solenoid - Spring (external feeding)	T424.32.0.1.E.*			
			Solenoid - Differential (self feeding)	T424.32.12.*			
			Solenoid - Differential (external feeding)	T424.32.12.E.*			
			Solenoid - Solenoid (self feeding)	T424.32.0.0.*			
			Solenoid - Solenoid (external feeding)	T424.32.0.0.E.*			
	5/2		Solenoid - Spring (self feeding)	T424.52.0.1.*			
			Solenoid - Spring (external feeding)	T424.52.0.1.E.*			
			Solenoid - Differential (self feeding)	T424.52.12.*			
			Solenoid - Differential (external feeding)	T424.52.12.E.*			
			Solenoid - Solenoid (self feeding)	T424.52.0.0.*			
			Solenoid - Solenoid (external feeding)	T424.52.0.0.E.*			
	5/3		Solenoid - Solenoid (self feeding)	T424.53.31.0.0.*			
			Solenoid - Solenoid (external feeding)	T424.53.31.0.0.E.*			
			Solenoid - Solenoid (self feeding)	T424.53.32.0.0.*	10 bar	900Nl/min	
			Solenoid - Solenoid (external feeding)	T424.53.32.0.0.E.*			
			Solenoid - Solenoid (self feeding)	T424.53.33.0.0.*			
			Solenoid - Solenoid (external feeding)	T424.53.33.0.0.E.*			
			Manifold for G 1/4"	T424.**	/	/	/
			Closing plate	T424.00			
			Single complete base	T424.01			
			Complete modular bases (15 pcs.)	T424.01K			
			Hollow bush, complete with O-rings (50 pcs.)	T424.30K			
			Blank bush, complete with O-rings (50 pcs.)	T424.31K			
			Intermediate air intake with screw (5 pcs.)	T424.32K			
			Screw to suite solenoid valves (50 pcs.)	T424.33			
			Screw for joning bases (50 pcs.)	T424.34			
			Washer for screw for joning bases(50 pcs.)	T424.35			
			O-ring seal (50 pcs.)	T424.36			

* Voltage: **B04** = 12 VDC **B05** = 24 VDC **B09** = 24 VDC (2 W)
B56 = 24 V 50 - 60 Hz **B57** = 110 V 50 - 60 Hz **B58** = 230 V 50 - 60 Hz

** = Number of seats (from 2 to 10)

SOLENOID VALVES
(series 400, chapter 2)

		Symbol	Description	Code	Min. & Max. Working 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	3500Nl/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	3000Nl/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	452/1.32.0.1.M2	2,5-10 bar	3500Nl/min	mm 15
			Solenoid - Differential	452/1.32.0.12.M2	2-10 bar		
			Solenoid - Solenoid	452/1.32.0.0.M2	2,5-10 bar		
	5/2		Solenoid - Spring	452/1.52.0.1.M2			
			Solenoid - Differential	452/1.52.0.12.M2	2-10 bar		
			Solenoid - Solenoid	452/1.52.0.0.M2	3-10 bar	3000Nl/min	
	5/3		Solenoid - Solenoid - C.C.	452/1.53.31.0.0.M2			
			Solenoid - Solenoid - O.C.	452/1.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	452/1.53.33.0.0.M2			

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/2" Compact series	3/2		Solenoid - Spring	412/2.32.0.1.C.M2	10 bar	3600Nl/min	mm 15
			Solenoid - Spring	412/2.32.0.1.A.M2			
			Solenoid - Differential (external)	412/2.32.0.12.C.M2			
			Solenoid - Differential (external)	412/2.32.0.12.A.M2			
			Solenoid - Differential (self-aligned)	412/2.32.0.12/1.C.M2			
			Solenoid - Differential (self-aligned)	412/2.32.0.12/1.A.M2			
			Solenoid - Solenoid	412/2.32.0.0.C.M2			
			Solenoid - Solenoid	412/2.32.0.0.A.M2			
	5/2		Solenoid - Spring	412/2.52.0.1.M2			
			Solenoid - Differential (external)	412/2.52.0.12.M2			
			Solenoid - Differential (self-aligned)	412/2.52.0.12/1.M2			
			Solenoid - Solenoid	412/2.52.0.0.M2		3300Nl/min	
	5/3		Solenoid - Solenoid	412/2.53.31.0.0.M2			
			Solenoid - Solenoid	412/2.53.32.0.0.M2			
			Solenoid - Solenoid	412/2.53.33.0.0.M2			
G 1"	3/2		Solenoid - Spring	411.32.0.1.S*	10 bar	6500Nl/min	mm 20
			Solenoid - Differential	411.32.0.12.S*			
			Solenoid - Solenoid	411.32.0.0.S*			
	5/2		Solenoid - Spring	411.52.0.1.S*			
			Solenoid - Differential	411.52.0.12.S*			
			Solenoid - Solenoid	411.52.0.0.S*			
	5/3		Solenoid - Solenoid - C.C.	411.53.31.0.0.S*			
			Solenoid - Solenoid - O.C.	411.53.32.0.0.S*			
			Solenoid - Solenoid - P.C.	411.53.33.0.0.S*			

S* = 32mm solenoid valve code

VALVES AND SOLENOID VALVES POPPET SYSTEM FOR COMPRESSED AIR AND VACUUM

(series 700, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G3/8"	air		Pneumatic - Spring N.O.	779.32.11.1A	10 bar	1800Nl/min	mm 10
			Pneumatic - Spring N.C.	779.32.11.1C			
			Solenoid - Spring, internal pilot N.C.	779.32.0.1AC.M2			
			Solenoid - Spring external pilot N.C.	779.32.0.1C.M2			
			Solenoid - Spring, internal pilot N.O.	779.32.0.1AA.M2			
			Solenoid - Spring external pilot N.O.	779.32.0.1A.M2			
	vacuum		Pneumatic - Spring N.O.	779/V.32.11.1A	/	/	
			Pneumatic - Spring N.C.	779/V.32.11.1C			
			Solenoid - Spring, internal pilot N.O.	779/V.32.0.1AA.M2/V			
			Solenoid - Spring, internal pilot N.C.	779/V.32.0.1AC.M2/V			
			Solenoid - Spring, external pilot N.O.	779/V.32.0.1A.M2			
			Solenoid - Spring, external pilot N.C.	779/V.32.0.1C.M2			
G 1/2"	air		Pneumatic - Spring N.C.	772.32.11.1C	10 bar	4800Nl/min	mm 15
			Solenoid - Spring, internal pilot N.C.	772.32.0.1AC.M2			
			Solenoid - Spring, external pilot N.C.	772.32.0.1C.M2			
	vacuum		Pneumatic - Spring N.O.	772/V.32.11.1A	/	/	
			Pneumatic - Spring N.C.	772/V.32.11.1C			
			Solenoid - Spring, internal pilot N.O.	772/V.32.0.1AA.M2/V			
			Solenoid - Spring, internal pilot N.C.	772/V.32.0.1AC.M2/V			
			Solenoid - Spring, external pilot N.O.	772/V.32.0.1A.M2			
			Solenoid - Spring, external pilot N.C.	772/V.32.0.1C.M2			

VALVES AND SOLENOID VALVES POPPET SYSTEM FOR COMPRESSED AIR AND VACUUM

(series 700, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G3/4" 	air		Pneumatic - Spring N.C.	773.32.11.1C	10 bar	7300Nl/min	mm 20
			Solenoid - Spring, internal pilot N.C.	773.32.0.1AC.M2			
			Solenoid - Spring, external pilot N.C.	773.32.0.1C.M2			
	vacuum		Pneumatic - Spring N.O.	773/V.32.11.1A	/	/	
			Pneumatic - Spring N.C.	773/V.32.11.1C			
			Solenoid - Spring, internal pilot N.O.	773/V.32.0.1AA.M2/V			
			Solenoid - Spring, internal pilot N.C.	773/V.32.0.1AC.M2/V			
			Solenoid - Spring, external pilot N.O.	773/V.32.0.1A.M2			
			Solenoid - Spring, external pilot N.C.	773/V.32.0.1C.M2			
G1' 	air		Pneumatic - Spring N.C.	771.32.11.1C	10 bar	12500Nl/min	mm 25
			Solenoid - Spring, internal pilot N.C.	771.32.0.1AC.M2			
			Solenoid - Spring, external pilot N.C.	771.32.0.1C.M2			
	vacuum		Pneumatic - Spring N.O.	771/V.32.11.1A	/	/	
			Pneumatic - Spring N.C.	771/V.32.11.1C			
			Solenoid - Spring, internal pilot N.O.	771/V.32.0.1AA.M2/V			
			Solenoid - Spring, internal pilot N.C.	771/V.32.0.1AC.M2/V			
			Solenoid - Spring, external pilot N.O.	771/V.32.0.1A.M2			
			Solenoid - Spring, external pilot N.C.	771/V.32.0.1.C.M2			
G 1½" 	air		Pneumatic - Spring N.C.	776.22.11C	10 bar	33500Nl/min	mm 38
			Solenoid - Spring, internal pilot N.C.	776.22.0.1AC.S*			
			Solenoid - Spring, external pilot N.C.	776.22.0.1C.S*			
			Pneumatic - Spring N.C.	776.32.11.1C			
			Solenoid - Spring, internal pilot N.C.	776.32.0.1AC.S*			
			Solenoid - Spring, external pilot N.C.	776.32.0.1C.S*			
	vacuum		Pneumatic - Spring N.C.	776/V.22.11.1C	/	/	
			Solenoid - Spring, external pilot N.C.	776/V.22.0.1C.S*			
			Pneumatic - Spring N.O.	776/V.32.11.1A			
			Pneumatic - Spring N.C.	776/V.32.11.1C			
			Solenoid - Spring, external pilot N.O.	776/V.32.0.1A.S*			
			Solenoid - Spring, external pilot N.C.	776/V.32.0.1C.S*			

S* = see coils for microsolenoid valves 32 mm

VALVES AND SOLENOID VALVES POPPET SYSTEM FOR COMPRESSED AIR AND VACUUM

(series T700, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/2" for compressed air 			Pneumatic - Spring N.C.	T772.32.11.1	10 bar	4100Nl/min	mm 15
			Pneumatic - Spring N.O.				
	Internal Pilot		Solenoid - Spring N.C.	T772.32.0.1AC.MP			
			Solenoid - Spring N.O.	T772.32.0.1AA.MP			
	Servoassisted external Pilot		Solenoid - Spring N.C.	T772.32.0.1.MP			
			Solenoid - Spring N.O.				
	Internal Pilot with quick exhaust		Solenoid - Spring N.C.	T772S.32.0.1AC.MP			
			Solenoid - Spring N.O.	T772S.32.0.1AA.MP			
	Servoassisted external Pilot with quick exhaust		Solenoid - Spring N.C.	T772S.32.0.1.MP			
			Solenoid - Spring N.O.				
G 1/2" for vacuum 			Pneumatic - Spring N.O.	T772/V.32.11.1	/	/	
			Pneumatic - Spring N.C.				
	Internal Pilot		Solenoid - Spring N.O.	T772/V.32.0.1AA.MV			
			Solenoid - Spring N.C.	T772/V.32.0.1AC.MV			
	Servoassisted external Pilot		Solenoid - Spring N.O.	T772/V.32.0.1.MP			
			Solenoid - Spring N.C.				
	Servoassisted external Pilot with quick exhaust		Solenoid - Spring N.O.	T772/VS.32.0.1.MP			
			Solenoid - Spring N.C.				

	Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 3/4" for compressed air		Pneumatic - Spring N.C.	T773.32.11.1	10 bar	7500Nl/min	mm 20
		Pneumatic - Spring N.O.				
Internal Pilot		Solenoid - Spring N.C.	T773.32.0.1AC.MP			
		Solenoid - Spring N.O.	T773.32.0.1AA.MP			
Servoassisted external Pilot		Solenoid - Spring N.C.	T773.32.0.1.MP			
		Solenoid - Spring N.O.				
Internal Pilot with quick exhaust		Solenoid - Spring N.C.	T773S.32.0.1AC.MP			
		Solenoid - Spring N.O.	T773S.32.0.1AA.MP			
Servoassisted external Pilot with quick exhaust		Solenoid - Spring N.C.	T773S.32.0.1.MP			
		Solenoid - Spring N.O.				
G 3/4" for vacuum		Pneumatic - Spring N.O.	T773/V.32.11.1	/	/	
		Pneumatic - Spring N.C.				
Internal Pilot		Solenoid - Spring N.O.	T773/V.32.0.1AA.MV			
		Solenoid - Spring N.C.	T773/V.32.0.1AC.MV			
Servoassisted external Pilot		Solenoid - Spring N.O.	T773/V.32.0.1.MP			
		Solenoid - Spring N.C.				
Servoassisted external Pilot with quick exhaust		Solenoid - Spring N.O.	T773/VS.32.0.1.MP			
		Solenoid - Spring N.C.				
G 1/2" for compressed air		Bistable version N.C.	T772.32.0.1BP	10 bar	4100Nl/min	mm 15
		Bistable version N.O.				
with quick exhaust		Bistable version N.C.	T772S.32.0.1BP			
		Bistable version N.O.				
G 3/4" for compressed air		Bistable version N.C.	T773.32.0.1BP	10 bar	7500Nl/min	
		Bistable version N.O.				
with quick exhaust		Bistable version N.C.	T773S.32.0.1BP			
		Bistable version N.O.				
G 1/2" for vacuum		Bistable version N.C.	T772V.32.0.1BP	/	/	
		Bistable version N.O.				
with quick exhaust		Bistable version N.C.	T772VS.32.0.1BP			
		Bistable version N.O.				
G 3/4" for vacuum		Bistable version N.C.	T773V.32.0.1BP			
		Bistable version N.O.				
with quick exhaust		Bistable version N.C.	T773VS.32.0.1BP			
		Bistable version N.O.				
G 1" for compressed air		Pneumatic - Spring N.C.	T771.32.11.1	10 bar	12500Nl/min	mm 25
		Pneumatic - Spring N.O.				
Internal Pilot		Solenoid - Spring N.C.	T771.32.0.1AC.MP			
		Solenoid - Spring N.O.	T771.32.0.1AA.MP			
Servoassisted external Pilot		Solenoid - Spring N.C.	T771.32.0.1.MP			
		Solenoid - Spring N.O.				
Internal Pilot with quick exhaust		Solenoid - Spring N.C.	T771S.32.0.1AC.MP			
		Solenoid - Spring N.O.	T771S.32.0.1AA.MP			
Servoassisted external Pilot with quick exhaust		Solenoid - Spring N.C.	T771S.32.0.1.MP			
		Solenoid - Spring N.O.				
G 1" for vacuum		Pneumatic - Spring N.O.	T771/V.32.11.1	/	/	
		Pneumatic - Spring N.C.				
Internal Pilot		Solenoid - Spring N.O.	T771/V.32.0.1AA.MV			
		Solenoid - Spring N.C.	T771/V.32.0.1AC.MV			
Servoassisted external Pilot		Solenoid - Spring N.O.	T771/V.32.0.1.MP			
		Solenoid - Spring N.C.				
Servoassisted external Pilot with quick exhaust		Solenoid - Spring N.O.	T771/VS.32.0.1.MP			
		Solenoid - Spring N.C.				

VALVES AND SOLENOID VALVES POPPET SYSTEM FOR COMPRESSED AIR AND VACUUM
(series T771, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1" for compressed air			Bistable version N.C.	T771.32.0.1BP	10 bar	12500Nl/min	mm 25
			Bistable version N.O.				
	with quick exhaust		Bistable version N.C.	T771S.32.0.1BP			
			Bistable version N.O.				
G 1" for vacuum			Bistable version N.C.	T771V.32.0.1BP	/	/	
			Bistable version N.O.				
	with quick exhaust		Bistable version N.C.	T771VS.32.0.1BP			
			Bistable version N.O.				

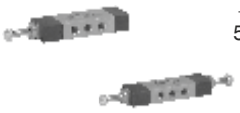
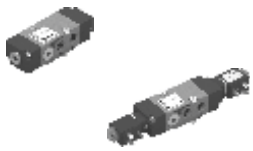
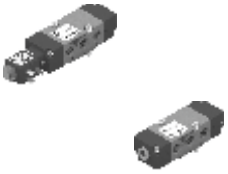
VALVES AND SOLENOID VALVES POPPET SYSTEM FOR COMPRESSED AIR AND VACUUM
(series N776, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1 1/2" for compressed air	2/2		Solenoid - Spring Internal pilot N.C.	N776.22.0.1AC.M3R	10 bar	33500Nl/min	mm 38
			Solenoid - Spring External pilot N.C.	N776.22.0.1C.M3R			
			Pneumatic - Spring	N776.22.11.1C			
	3/2		Solenoid - Spring External pilot N.O. - N.C.	N776.32.0.1.M3R			
			Solenoid - Spring Internal pilot N.O.	N776.32.0.1AA.M3R			
			Solenoid - Spring Internal pilot N.C.	N776.32.0.1AC.M3R			
			Pneumatic - Spring	N776.32.11.1			
G 1 1/2" for vacuum	2/2		Solenoid - Spring Internal pilot N.C.	N776/V.22.0.1AC.M3R	/	/	
			Solenoid - Spring External pilot N.C.	N776/V.22.0.1C.M3R			
			Pneumatic - Spring	N776/V.22.11.1C			
	3/2		Solenoid - Spring External pilot N.O. - N.C.	N776/V.32.0.1.M3R			
			Solenoid - Spring Internal pilot N.O.	N776/V.32.0.1AA.M3R			
			Solenoid - Spring Internal pilot N.C.	N776/V.32.0.1AC.M3R			
			Pneumatic - Spring	N776/V.32.11.1			

PAD VALVES
(series 700, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
"T" body version	2/2		Double acting, magnetic	PVA.B.DE.M.T.*.**	10 bar	/	/
			Double acting, non magnetic	PVA.B.DE.N.T.*.**			
			Normally open, magnetic	PVA.B.SA.M.T.*.**			
			Normally open, non magnetic	PVA.B.SA.N.T.*.**			
			Normally closed, magnetic	PVA.B.SC.M.T.*.**			
			Normally closed, non magnetic	PVA.B.SC.N.T.*.**			
"Y" body version	2/2		Double acting, magnetic	PVA.B.DE.M.Y.*.**			
			Double acting, non magnetic	PVA.B.DE.N.Y.*.**			
			Normally open, magnetic	PVA.B.SA.M.Y.*.**			
			Normally open, non magnetic	PVA.B.SA.N.Y.*.**			
			Normally closed, magnetic	PVA.B.SC.M.Y.*.**			
			Normally closed, non magnetic	PVA.B.SC.N.Y.*.**			

* Connections : **A** = G 1/4" **E** = G 1" ** Seals : **N** = NBR
B = G 3/8" **F** = G 1 1/4" **V** = FPM
C = G 1/2" **G** = G 1 1/2" **F** = PTFE
D = G 3/4" **H** = G 2"

		Symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size
Namur Interface	3/2		Solenoid - Spring	514/N.32.0.1.M2	2,5-10 bar	1030Nl/min	mm 7
			Solenoid - Differential	514/N.32.0.12.M2			
			Solenoid - Solenoid	514/N.32.0.0.M2	2-10 bar		
	5/2		Solenoid - Spring	514/N.52.0.1.M2	2,5-10 bar		
			Solenoid - Differential	514/N.52.0.12.M2			
			Solenoid - Solenoid	514/N.52.0.0.M2	2-10 bar		
G 1/4”	4/2		Pneumatic - Differential	T514.42.00.16	10 bar	1100Nl/min	mm 8
			Pneumatic - Pneumatic	T514.42.00.18			
			Pneumatic - Spring	T514.42.00.19			
			Solenoid - Solenoid	T514.42.00.35.*			
			Solenoid - Differential	T514.42.00.36.*			
			Solenoid - Spring	T514.42.00.39.*			
	5/2		Pneumatic - Differential	T514.52.00.16			
			Pneumatic - Pneumatic	T514.52.00.18			
			Pneumatic - Spring	T514.52.00.19			
			Solenoid - Solenoid	T514.52.00.35.*			
			Solenoid - Differential	T514.52.00.36.*			
			Solenoid - Spring	T514.52.00.39.*			
			Multipurpose Version	T514.92.00.*.*	10 bar	1100Nl/min	mm 8

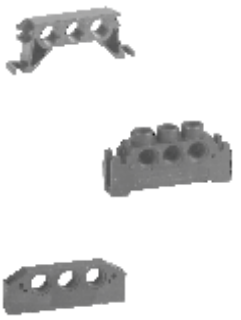
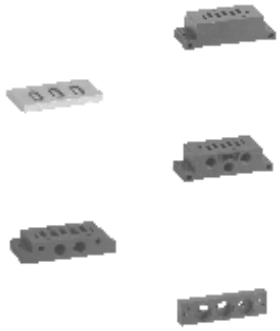
* Voltage: **B04** = 12 VDC - **B09** = 24 VDC (2 W) - **B57** = 110 V 50 - 60 Hz - **B05** = 24 VDC - **B56** = 24 V 50 - 60 Hz - **B58** = 230 V 50 - 60 Hz

VALVES AND SOLENOID VALVES ISO 5599/1
(series 1000, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
Size 1	5/2		Pneumatic - Spring	1001.52.1.9	10 bar	840Nl/min	/
			Pneumatic - Differential	1001.52.1.6			
			Pneumatic - Pneumatic	1001.52.1.8			
			Solenoid - Spring	1051.52.3.9.M2			
			Solenoid - Differential	1051.52.3.6.M2			
			Solenoid - Solenoid	1051.52.3.5.M2			
	5/3		Pneumatic - Pneumatic C.C.	1001.53.31.1.8		720Nl/min	
			Pneumatic - Pneumatic O.C.	1001.53.32.1.8			
			Pneumatic - Pneumatic P.C.	1001.53.33.1.8			
			Solenoid - Solenoid C.C.	1051.53.31.3.5.M2			
			Solenoid - Solenoid O.C.	1051.53.32.3.5.M2			
			Solenoid - Solenoid P.C.	1051.53.33.3.5.M2			
Technopolymer	5/2		Pneumatic - Spring	1011.52.1.9	10 bar	900Nl/min	/
			Pneumatic - Differential	1011.52.1.6			
			Pneumatic - Pneumatic	1011.52.1.8			
			Solenoid - Spring	1011.52.3.9.M**			
			Solenoid - Differential	1011.52.3.6.M**			
			Solenoid - Solenoid	1011.52.3.5.M**			
			Pneumatic - Pneumatic C.C.	1011.52.31.1.8			

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Technopolymer	5/3		Pneumatic - Pneumatic O.C.	1011.53.32.1.8	10 bar	900Nl/min	/
			Pneumatic - Pneumatic P.C.	1011.53.33.1.8			
			Solenoid - Solenoid C.C.	1011.53.31.3.5.M**			
			Solenoid - Solenoid O.C.	1011.53.32.3.5.M**			
			Solenoid - Solenoid P.C.	1011.53.33.3.5.M**			
Size 2	5/2		Pneumatic - Differential	1002.52.16	10 bar	1700Nl/min	/
			Pneumatic - Pneumatic	1002.52.18			
			Solenoid - Differential	1052.52.3.6.M2			
			Solenoid - Solenoid	1052.52.3.5.M2			
	5/3		Pneumatic - Pneumatic C.C.	1002.53.31.1.8	10 bar		
			Pneumatic - Pneumatic O.C.	1002.53.32.1.8			
			Pneumatic - Pneumatic P.C.	1002.53.33.1.8			
			Solenoid - Solenoid C.C.	1052.53.31.3.5.M2			
			Solenoid - Solenoid O.C.	1052.53.32.3.5.M2			
			Solenoid - Solenoid P.C.	1052.53.33.3.5.M2			
Technopolymer	5/2		Pneumatic - Spring	1012.52.1.9	10 bar	1600Nl/min	/
			Pneumatic - Differential	1012.52.1.6			
			Pneumatic - Pneumatic	1012.52.1.8			
			Solenoid - Spring	1012.52.3.9.M**			
			Solenoid - Differential	1012.52.3.6.M**			
			Solenoid - Solenoid	1012.52.3.5.M**			
	5/3		Pneumatic - Pneumatic C.C.	1012.53.31.1.8			
			Pneumatic - Pneumatic O.C.	1012.53.32.1.8			
			Pneumatic - Pneumatic P.C.	1012.53.33.1.8			
			Solenoid - Solenoid C.C.	1012.53.31.3.5.M**			
			Solenoid - Solenoid O.C.	1012.53.32.3.5.M**			
			Solenoid - Solenoid P.C.	1012.53.33.3.5.M**			
Accessories for size 1 and size 2			CNOMO base for solenoid size 1 and 2	1001.04	/	/	/
			Base for Solenoid size 1 and 2	1001.05			
			Base with bottom connections size 1	1001.00			
			Base with lateral connections	1001.01			
			Inlet block size 1	1001.02			
			Base with bottom connectios size 2	1002.00			
Size 3	5/2		Pneumatic - Spring	1013.52.1.9	10 bar	3600Nl/min	/
			Pneumatic - Differential	1013.52.1.6			
			Pneumatic - Pneumatic	1013.52.1.8			
			Solenoid - Spring	1013.52.3.9.M**			
			Solenoid - Differential	1013.52.3.6.M**			
			Solenoid - Solenoid	1013.52.3.5.M**			
	5/3		Pneumatic - Pneumatic C.C.	1013.53.31.1.8		3000Nl/min	
			Pneumatic - Pneumatic O.C.	1013.53.32.1.8			
			Pneumatic - Pneumatic P.C.	1013.53.33.1.8			
			Solenoid - Solenoid C.C.	1013.53.31.3.5.M**			
			Solenoid - Solenoid O.C.	1013.53.32.3.5.M**			
			Solenoid - Solenoid P.C.	1013.53.33.3.5.M**			

** = Code for 30 mm Solenoid valve

		Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Inlet blocks 	size 1	Size 1	1101.09			
		Universal	1101.10			
		Alligned connections	1101.11			
		Top connections	1101.12			
		Bottom connections	1101.13			
	size 2	Universal	1102.10			
		Alligned connections	1102.11			
		Top connections	1102.12			
		Bottom connections	1102.13			
	size 3	Alligned connections	1103.11			
Modular bases with side and bottom connections 		Size 1	1101.00			
		Size 2	1102.00	/	/	/
		Size 3	1103.00			
Individual base 	size 1	Shape "A"	1101.14			
		Shape "B"	1101.15			
		Closing plate	1101.16			
	size 2	Shape "A"	1102.14			
		Shape "B"	1102.15			
		Closing plate	1102.16			
	size 3	Shape "A"	1103.14			
		Closing plate	1103.16			
		Interbase 2-1	1100.2-1			
		Interbase 3-2	1100.3-2			

** = Code for 30 mm Solenoid valve

SOLENOID VALVES ISO 5599/1 COMPLETE WITH M12 CONNECTOR

(series 1000 M12, chapter 2)

		Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Size 1 	5/2	Solenoid - Solenoid	1111.52.3.5.*			
		Solenoid - Differential	1111.52.3.6.*			
		Solenoid - Spring	1111.52.3.9.*	10 bar	900Nl/min	
	5/3	Solenoid - Solenoid C.C.	1111.53.31.3.5.*			
		Solenoid - Solenoid O.C.	1111.53.32.3.5.*			
		Solenoid - Solenoid P.C.	1111.53.33.3.5.*			
Size 2 	5/2	Solenoid - Solenoid	1112.52.3.5.*			
		Solenoid - Differential	1112.52.3.6.*			
		Solenoid - Spring	1112.52.3.9.*	10 bar	1600Nl/min	/
	5/3	Solenoid - Solenoid C.C.	1112.53.31.3.5.*			
		Solenoid - Solenoid O.C.	1112.53.32.3.5.*			
		Solenoid - Solenoid P.C.	1112.53.33.3.5.*			
Size 3 	5/2	Solenoid - Solenoid	1113.52.3.5.*			
		Solenoid - Differential	1113.52.3.6.*			
		Solenoid - Spring	1113.52.3.9.*	10 bar	3600Nl/min	
	5/3	Solenoid - Solenoid C.C.	1113.53.31.3.5.*			
		Solenoid - Solenoid O.C.	1113.53.32.3.5.*			
		Solenoid - Solenoid P.C.	1113.53.33.3.5.*			

* Coil Voltage : **12P** = 24 VDC

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
M5 LINE   	5/2		Pneumatic - Differential	2115.52.00.16	7 bar	150Nl/min	mm 2,5
			Pneumatic - Pneumatic	2115.52.00.18			
			Pneumatic - Spring	2115.52.00.19.			
			Solenoid - Solenoid	2115.52.00.35.*			
			Solenoid - Differential	2115.52.00.36.*			
			Solenoid - Spring	2115.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2115.53.31.18.*	7 bar	130Nl/min	
			Pneumatic - Pneumatic O.C.	2115.53.32.18.*	7 bar	140Nl/min	
			Pneumatic - Pneumatic P.C.	2115.53.33.18.*	7 bar	180Nl/min	
			Solenoid - Solenoid C.C.	2115.53.31.35.*	7 bar	130Nl/min	
			Solenoid - Solenoid O.C.	2115.53.32.35.*	7 bar	140Nl/min	
			Solenoid - Solenoid P.C.	2115.53.33.35.*	7 bar	180Nl/min	
M5 FLAT   	5/2		Pneumatic - Differential	2135.52.00.16	7 bar	150Nl/min	
			Pneumatic - Pneumatic	2135.52.00.18			
			Pneumatic - Spring	2135.52.00.19			
			Solenoid - Solenoid	2135.52.00.35.*			
			Solenoid - Differential	2135.52.00.36.*			
			Solenoid - Spring	2135.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2135.53.31.18.*	7 bar	130Nl/min	
			Pneumatic - Pneumatic O.C.	2135.53.32.18.*	7 bar	140Nl/min	
			Pneumatic - Pneumatic P.C.	2135.53.33.18.*	7 bar	180Nl/min	
			Solenoid - Solenoid C.C.	2135.53.31.35.*	7 bar	130Nl/min	
			Solenoid - Solenoid O.C.	2135.53.32.35.*	7 bar	140Nl/min	
			Solenoid - Solenoid P.C.	2135.53.33.35.*	7 bar	180Nl/min	
BASE   	5/2		Pneumatic - Differential	2141.52.00.16	7 bar	150Nl/min	mm 2,5
			Pneumatic - Pneumatic	2141.52.00.18			
			Pneumatic - Spring	2141.52.00.19			
			Solenoid - Solenoid	2141.52.00.35.*			
			Solenoid - Differential	2141.52.00.36.*			
			Solenoid - Spring	2141.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2141.53.31.18.*	7 bar	130Nl/min	
			Pneumatic - Pneumatic O.C.	2141.53.32.18.*	7 bar	140Nl/min	
			Pneumatic - Pneumatic P.C.	2141.53.33.18.*	7 bar	180Nl/min	
			Solenoid - Solenoid C.C.	2141.53.31.35.*	7 bar	130Nl/min	
			Solenoid - Solenoid O.C.	2141.53.32.35.*	7 bar	140Nl/min	
			Solenoid - Solenoid P.C.	2141.53.33.35.*	7 bar	180Nl/min	

* = List of voltages:

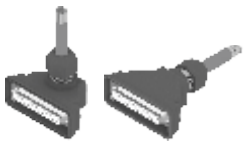
01 = 12 VDC conn. 90° with led
02 = 24 VDC conn. 90° with led
11 = 12 VDC conn. 90° with led downward
12 = 24 VDC conn. 90° with led downward
21 = 12 VDC line conn. with led
22 = 24 VDC line conn. with led
31 = 12 VDC line conn. with led downward
32 = 24 VDC line conn. with led downward
91 = 12 VDC for integral electrical conn. downward not for LINE series
92 = 24 VDC for integral electrical conn. downward not for LINE series

Accessories

	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
	Modular base for FLAT	2130.01			
	Modular base for BASE without cartrige	2140.01			
	Mod. base for BASE c/w 4mm tube cartrid.	2144.01			
	Mod. base for BASE c/w M5 cartridges	2145.01			
	Mod. base for BASE c/w 6 mm tube cartridges	2146.01			
	Mod. base for BASE c/w M7x1 cartridges	2147.01			
	Right inlet base	2140.02			
	Left inlet base	2140.03			
	Intermediate air intake	2130.10			
	Closing plate	2130.00			
	DIN ray adapter	2130.16			
	Diaphragm plug	2130.17			
	Modular base cartrige 4 mm tube	2100.031M			
	Modular base cartrige M5	2100.033M			
	Modular base cartrige M7x1	2100.034M			
	Modular base cartrige lock	2100.035M			
	Modular base cartrige 6 mm tube	2100.036M			
Integral electrical connection 4 places	4 positions IP40-PNP left modul	2100.04.00			
	4 positions IP40-PNP right modul	2100.04.01	/	/	/
	4 pos. IP40-PNP left modul with prot.diode	2100.04.02			
	4 pos. IP40-PNP right modul with prot. diode	2100.04.03			
	4 positions IP65-PNP left modul	2100.04.10			
	4 positions IP65-PNP right modul	2100.04.11			
	4 pos. IP65-PNP left modul with prot.diode	2100.04.12			
	4 pos. IP65-PNP right modul with prot. diode	2100.04.13			
Integral electrical connection 2 places	2 positions IP40-PNP left modul	2100.02.00			
	2 positions IP40-PNP right modul	2100.02.01			
	2 pos. IP40-PNP left modul with prot.diode	2100.02.02			
	2 pos. IP40-PNP right modul with prot. diode	2100.02.03			
	2 positions IP65-PNP left modul	2100.02.10			
	2 positions IP65-PNP right modul	2100.02.11			
	2 pos. IP65-PNP left modul with prot.diode	2100.02.12			
	2 pos. IP65-PNP right modul with prot. diode	2100.02.13			
	37 contacts front connector IP 65	2100.37.10			
	25 contacts front connector IP 65	2100.25.10			
	Plug	2100.00			
	FLAT support plate	2130.50			

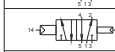
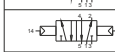
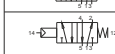
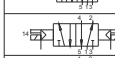
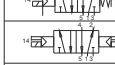
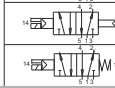
VALVES AND SOLENOID VALVES, LINE - FLAT - BASE, SIZE 10mm

(series 2100, chapter 2)

		Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Mobile positioning cable c/w connector	25 contacts	3 m. - IP40	2400.25.03.00	/	/	/
		5 m. - IP40	2400.25.05.00			
		10 m. - IP40	2400.25.10.00			
		3 m. - casing IP65 in line	2300.25.03.10			
		5 m. - casing IP65 in line	2300.25.05.10			
		10 m. - casing IP65 in line	2300.25.10.10			
		3 m. - casing IP65 90° angle	2300.25.03.90			
		5 m. - casing IP65 90° angle	2300.25.05.90			
		10 m. - casing IP65 90° angle	2300.25.10.90			
	37 contacts	3 m. - IP40	2400.37.03.00			
		5 m. - IP40	2400.37.05.00			
		10 m. - IP40	2400.37.10.00			
		3 m. - casing IP65 in line	2400.37.03.10			
		5 m. - casing IP65 in line	2400.37.05.10			
		10 m. - casing IP65 in line	2400.37.10.10			
		3 m. - casing IP65 90° angle	2400.37.03.90			
		5 m. - casing IP65 90° angle	2400.37.05.90			
		10 m. - casing IP65 90° angle	2400.37.10.90			

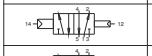
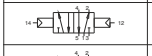
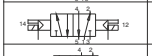
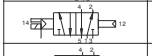
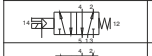
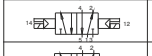
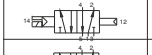
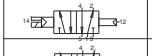
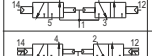
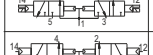
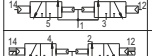
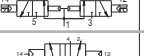
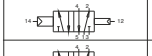
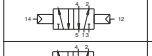
VALVES AND SOLENOID VALVES, LINE - FLAT - BASE, SIZE 18mm

(series 2400, chapter 2)

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" LINE	5/2		Pneumatic - Differential	2415.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Differential external	2415.52.00.17			
			Pneumatic - Pneumatic	2415.52.00.18			
			Pneumatic - Spring	2415.52.00.19			
			Solenoid external - Solenoid external	2415.52.00.24.*			
			Solenoid external - Differential	2415.52.00.26.*			
			Solenoid external - Differential external	2415.52.00.27.*			
			Solenoid external - Spring	2415.52.00.29.*			
			Solenoid - Solenoid	2415.52.00.35.*			
			Solenoid - Differential	2415.52.00.36.*			
			Solenoid - Differential external	2415.52.00.37.*			
			Solenoid - Spring	2415.52.00.39.*			

* = List of voltages:
01 = 12 VDC
02 = 24 VDC
05 = 24 VAC
06 = 110 VAC
07 = 230 VAC
08 = 24 VDC 1 W
09 = 24 VDC Earth faston
11 = 12 VDC Downward
12 = 24 VDC Downward
15 = 24 VAC Downward
16 = 110 VAC Downward
17 = 230 VAC Downward
18 = 24 VDC 1 W Downward
19 = 24 VDC Earth faston Downward

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/8" LINE 	5/3		Pneumatic - Pneumatic C.C.	2415.53.31.18.*	10 bar	650Nl/min	mm 7
			Pneumatic - Pneumatic O.C.	2415.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2415.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2415.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2415.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2415.53.33.24.*			
			Solenoid - Solenoid C.C.	2415.53.31.35.*			
			Solenoid - Solenoid O.C.	2415.53.32.35.*			
			Solenoid - Solenoid P.C.	2415.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C)	2415.62.44.18.*	10 bar	450Nl/min	mm 7
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2415.62.44.35.*			
			Pneum.-Pneum. 2x3/2 N.C. (14) - N.O. (12)	2415.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O (12)	2415.62.45.35.*			
			Pneum.-Pneum. 2x3/2 N.O. (14) - N.C. (12)	2415.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2415.62.54.35.*			
			Pneum.-Pneum. 2x3/2 NO - NO (=5/3 P.C.)	2415.62.55.18.*			
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2415.62.55.35.*			
G 1/4" LINE 	5/2		Pneumatic - Differential	2411.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Pneumatic external	2411.52.00.17			
			Pneumatic - Pneumatic	2411.52.00.18			
			Pneumatic - Spring	2411.52.00.19			
			Solenoid external - Solenoid external	2411.52.00.24.*	10 bar	900Nl/min	
			Solenoid external - Differential	2411.52.00.26.*			
			Solenoid external - Differential external	2411.52.00.27.*			
			Solenoid external - Spring	2411.52.00.29.*			
			Solenoid - Solenoid	2411.52.00.35.*			
			Solenoid - Differential	2411.52.00.36.*			
			Solenoid - Differential external	2411.52.00.37.*			
			Solenoid - Spring	2411.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2411.53.31.18.*	10 bar	650Nl/min	
			Pneumatic - Pneumatic O.C.	2411.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2411.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2411.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2411.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2411.53.33.24.*			
			Solenoid - Solenoid C.C.	2411.53.31.35.*			
			Solenoid - Solenoid O.C.	2411.53.32.35.*			
			Solenoid - Solenoid P.C.	2411.53.33.35.*			
	2X3/2		Pneumatic-Pneumatic 2x3/2 N.C. N.C. (=5/3 O.C.)	2411.62.44.18.*	10 bar	450Nl/min	mm 7
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2411.62.44.35.*			
			Pneumatic-Pneumatic 2x3/2 N.C. (14) - N.O. (12)	2411.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2411.62.45.35.*			
			Pneumatic-Pneumatic 2x3/2 N.O. (14) - N.C. (12)	2411.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2411.62.54.35.*			
			Pneumatic-Pneumatic 2x3/2 NO - N.O. (=5/3 P.C.)	2411.62.55.18.*			
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2411.62.55.35.*			

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Tube Ø6 LINE 	5/2		Pneumatic - Differential	2416.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Differential external	2416.52.00.17			
			Pneumatic - Pneumatic	2416.52.00.18			
			Pneumatic - Spring	2416.52.00.19			
			Solenoid external - Solenoid external	2416.52.00.24			
			Solenoid external - Differential	2416.52.00.26.*			
			Solenoid external - Differential external	2416.52.00.27.*			
			Solenoid external - Spring	2416.52.00.29.*			
			Solenoid - Solenoid	2416.52.00.35.*			
			Solenoid - Differential	2416.52.00.36.*			
			Solenoid - Differential external	2416.52.00.37.*			
			Solenoid - Spring	2416.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2416.53.31.18.*	10 bar	650Nl/min	
			Pneumatic - Pneumatic O.C.	2416.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2416.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2416.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2416.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2416.53.33.24.*			
			Solenoid - Solenoid C.C.	2416.53.31.35.*			
			Solenoid - Solenoid O.C.	2416.53.32.35.*			
			Solenoid - Solenoid P.C.	2416.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C.)	2416.62.44.18.*	10 bar	450Nl/min	mm 7
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2416.62.44.35.*			
			Pneum.-Pneum. 2x3/2 N.C. (14) - N.O. (12)	2416.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2416.62.45.35.*			
			Pneum.-Pneum. 2x3/2 N.O. (14) - N.C. (12)	2416.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2416.62.54.35.*			
			Pneum.-Pneum. 2x3/2 N.O. N.O. (=5/3 P.C.)	2416.62.55.18.*			
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2416.62.55.35.*			
Tube Ø8 LINE 	5/2		Pneumatic - Differential	2418.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Differential external	2418.52.00.17			
			Pneumatic - Pneumatic	2418.52.00.18			
			Pneumatic - Spring	2418.52.00.19			
			Solenoid external - Solenoid external	2418.52.00.24.*			
			Solenoid external - Differential	2418.52.00.26.*			
			Solenoid external - Differential external	2418.52.00.27.*			
			Solenoid external - Spring	2418.52.00.29.*			
			Solenoid - Solenoid	2418.52.00.35.*			
			Solenoid - Differential	2418.52.00.36.*			
			Solenoid - Differential external	2418.52.00.37.*			
			Solenoid - Spring	2418.52.00.39.*			

* = List of voltages:
01 = 12 VDC
02 = 24 VDC
05 = 24 VAC
06 = 110 VAC
07 = 230 VAC
08 = 24 VDC 1 W
09 = 24 VDC Earth faston
11 = 12 VDC Downward
12 = 24 VDC Downward
15 = 24 VAC Downward
16 = 110 VAC Downward
17 = 230 VAC Downward
18 = 24 VDC 1 W Downward
19 = 24 VDC Earth faston Downward

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Tube Ø8 LINE	5/3		Pneumatic - Pneumatic C.C.	2418.53.31.18.*	10 bar	650Nl/min	mm 7
			Pneumatic - Pneumatic O.C.	2418.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2418.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2418.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2418.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2418.53.33.24.*			
			Solenoid - Solenoid C.C.	2418.53.31.35.*			
			Solenoid - Solenoid O.C.	2418.53.32.35.*			
			Solenoid - Solenoid P.C.	2418.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C.)	2418.62.44.18.*	10 bar	450Nl/min	
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2418.62.44.35.*			
			Pneum.-Pneum. 2x3/2 N.C. (14) - N.O. (12)	2418.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2418.62.45.35.*			
			Pneum.-Pneum. 2x3/2 N.O. (14) - N.C. (12)	2418.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2418.62.54.35.*			
			Pneum.-Pneum. 2x3/2 N.O. - N.O. (=5/3 P.C.)	2418.62.55.18.*			
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2418.62.55.35.*			
G 1/8" FLAT	5/2		Pneumatic - Differential	2435.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Differential external	2435.52.00.17			
			Pneumatic - Pneumatic	2435.52.00.18			
			Pneumatic - Spring	2435.52.00.19			
			Solenoid external - Solenoid external	2435.52.00.24.*			
			Solenoid external - Differential	2435.52.00.26.*			
			Solenoid external - Differential external	2435.52.00.27.*			
			Solenoid external - Spring	2435.52.00.29.*			
			Solenoid - Solenoid	2435.52.00.35.*			
			Solenoid - Differential	2435.52.00.36.*			
			Solenoid - Differential external	2435.52.00.37.*			
			Solenoid - Spring	2435.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2435.53.31.18.*	10 bar	650Nl/min	
			Pneumatic - Pneumatic O.C.	2435.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2435.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2435.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2435.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2435.53.33.24.*			
			Solenoid - Solenoid C.C.	2435.53.31.35.*			
			Solenoid - Solenoid O.C.	2435.53.32.35.*			
			Solenoid - Solenoid P.C.	2435.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C.)	2435.62.44.18.*	10 bar	450Nl/min	
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2435.62.44.35.*			
			Pneum.-Pneum. 2x3/2 N.C. (14) - N.O. (12)	2435.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2435.62.45.35.*			
			Pneum.-Pneum. 2x3/2 N.O. (14) - N.C. (12)	2435.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2435.62.54.35.*			
			Pneum. - Pneum. 2x3/2 N.O. - N.O. (=5/3 C.P.)	2435.62.55.18.*			
			Solenoid - Solenoid 2x3/2 N.O. - N.O. (=5/3 C.P.)	2435.62.55.35.*			

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4" FLAT	5/2		Pneumatic - Differential	2431.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Differential external	2431.52.00.17			
			Pneumatic - Pneumatic	2431.52.00.18			
			Pneumatic - Spring	2431.52.00.19			
			Solenoid external - Solenoid External	2431.52.00.24.*			
			Solenoid external - Differential	2431.52.00.26.*			
			Solenoid external - Differential external	2431.52.00.27.*			
			Solenoid external - Spring	2431.52.00.29.*			
			Solenoid - Solenoid	2431.52.00.35.*			
			Solenoid - Differential	2431.52.00.36.*			
			Solenoid - Differential external	2431.52.00.37.*			
			Solenoid - Spring	2431.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2431.53.31.18.*	10 bar	650Nl/min	
			Pneumatic - Pneumatic O.C.	2431.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2431.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2431.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2431.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2431.53.33.24.*			
			Solenoid - Solenoid C.C.	2431.53.31.35.*			
			Solenoid - Solenoid O.C.	2431.53.32.35.*			
			Solenoid - Solenoid P.C.	2431.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C.)	2431.62.44.18.*	10 bar	450Nl/min	mm 7
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2431.62.44.35.*			
			Pneum.-Pneum. 2x3/2 N.C. (14) - N.O. (12)	2431.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2431.62.45.35.*			
			Pneum.-Pneum. 2x3/2 N.O. (14) - N.C. (12)	2431.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2431.62.54.35.*			
			Pneum.-Pneum. 2x3/2 N.O. - N.O. (=5/3 P.C.)	2431.62.55.18.*			
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2431.62.55.35.*			
Tube Ø6 FLAT	5/2		Pneumatic - Differential	2436.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Differential external	2436.52.00.17			
			Pneumatic - Pneumatic	2436.52.00.18			
			Pneumatic - Spring	2436.52.00.19			
			Solenoid external - Solenoid external	2436.52.00.24.*			
			Solenoid external - Differential	2436.52.00.26.*			
			Solenoid external - Differential external	2436.52.00.27.*			
			Solenoid external - Spring	2436.52.00.29.*			
			Solenoid - Solenoid	2436.52.00.35.*			
			Solenoid - Differential	2436.52.00.36.*			
			Solenoid - Differential external	2436.52.00.37.*			
			Solenoid - Spring	2436.52.00.39.*			

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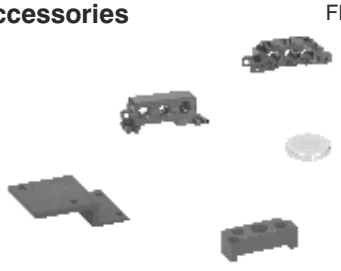
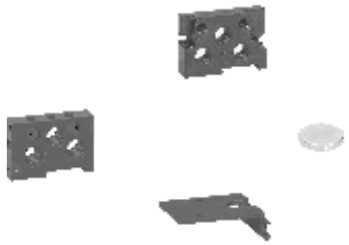
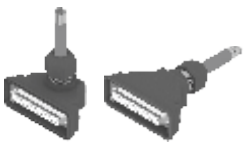
06 = 110 VAC
07 = 230 VAC
08 = 24 VDC 1 W
09 = 24 VDC Earth faston
11 = 12 VDC Downward
12 = 24 VDC Downward
15 = 24 VAC Downward
16 = 110 VAC Downward
17 = 230 VAC Downward
18 = 24 VDC 1 W Downward
19 = 24 VDC Earth faston Downward

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Tube Ø6 FLAT	5/3		Pneumatic - Pneumatic C.C.	2436.53.31.18.*	10 bar	650Nl/min	mm 7
			Pneumatic - Pneumatic O.C.	2436.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2436.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2436.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2436.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2436.53.33.24.*			
			Solenoid - Solenoid C.C.	2436.53.31.35.*			
			Solenoid - Solenoid O.C.	2436.53.32.35.*			
			Solenoid - Solenoid P.C.	2436.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C.)	2436.62.44.18.*	10 bar	450Nl/min	
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2436.62.44.35.*			
			Pneum-Pneum 2x3/2 N.C. (14) - N.O. (12)	2436.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2436.62.45.35.*			
			Pneum-Pneum 2x3/2 N.O. (14) - N.C. (12)	2436.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2436.62.54.35.*			
			Pneum-Pneum 2x3/2 N.O. - N.O. (=5/3 P.C.)	2436.62.55.18.*			
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2436.62.55.35.*			
Tube Ø8 FLAT	5/2		Pneumatic - Differential	2438.52.00.16	10 bar	800Nl/min	mm 7
			Pneumatic - Differential external	2438.52.00.17			
			Pneumatic - Pneumatic	2438.52.00.18			
			Pneumatic - Spring	2438.52.00.19			
			Solenoid external - Solenoid external	2438.52.00.24.*			
			Solenoid external - Differential	2438.52.00.26.*			
			Solenoid external - Differential external	2438.52.00.27.*			
			Solenoid external - Spring	2438.52.00.29.*			
			Solenoid - Solenoid	2438.52.00.35.*			
			Solenoid - Differential	2438.52.00.36.*			
			Solenoid - Differential external	2438.52.00.37.*			
			Solenoid - Spring	2438.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2438.53.31.18.*	10 bar	450Nl/min	mm 7
			Pneumatic - Pneumatic O.C.	2438.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2438.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2438.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2438.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2438.53.33.24.*			
			Solenoid - Solenoid C.C.	2438.53.31.35.*			
			Solenoid - Solenoid O.C.	2438.53.32.35.*			
			Solenoid - Solenoid P.C.	2438.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C.)	2438.62.44.18.*			
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2438.62.44.35.*			
			Pneum.-Pneum. 2x3/2 N.C. (14) - N.O. (12)	2438.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2438.62.45.35.*			
			Pneum.-Pneum. 2x3/2 N.O. (14) - N.C. (12)	2438.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2438.62.54.35.*			

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
	2X3/2		Pneum.-Pneum. 2x3/2 N.O. - N.O. (=5/3 P.C.)	2438.62.55.18.*	10 bar	450Nl/min	mm 7
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2438.62.55.35.*			
VDMA Electropilot exhaust on pilot   	5/2		Pneumatic - Differential	2445.52.00.16	10 bar	550Nl/min	mm 5
			Pneumatic - Differential external	2445.52.00.17			
			Pneumatic - Pneumatic	2445.52.00.18			
			Pneumatic - Spring	2445.52.00.19			
			Solenoid external - Solenoid external	2445.52.00.24.*			
			Solenoid external - Differential	2445.52.00.26.*			
			Solenoid external - Differential external	2445.52.00.27.*			
			Solenoid external - Spring	2445.52.00.29.*			
			Solenoid - Solenoid	2445.52.00.35.*			
			Solenoid - Differential	2445.52.00.36.*			
			Solenoid - Differential external	2445.52.00.37.*			
			Solenoid - Spring	2445.52.00.39.*			
 	5/3		Pneumatic - Pneumatic C.C.	2445.53.31.18.*			
			Pneumatic - Pneumatic O.C.	2445.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2445.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2445.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2445.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2445.53.33.24.*			
			Solenoid - Solenoid C.C.	2445.53.31.35.*			
			Solenoid - Solenoid O.C.	2445.53.32.35.*			
			Solenoid - Solenoid P.C.	2445.53.33.35.*			
VDMA Electropilot exhaust on base  	5/2		Solenoid - Solenoid	2441.52.00.35.*	10 bar	550Nl/min	mm 5
			Solenoid - Differential	2441.52.00.36.*			
			Solenoid - Spring	2441.52.00.39.*			
	5/3		Solenoid - Solenoid C.C.	2441.53.31.35.*			
			Solenoid - Solenoid O.C.	2441.53.32.35.*			
			Solenoid - Solenoid P.C.	2441.53.33.35.*			
	2X3/2		Pneum.-Pneum. 2x3/2 N.C. N.C. (=5/3 O.C.)	2445.62.44.18.*	10 bar	450Nl/min	mm 7
			Solenoid-Solenoid 2x3/2 N.C. N.C. (=5/3 O.C.)	2445.62.44.35.*			
			Pneum.-Pneum. 2x3/2 N.C. (14) - N.O. (12)	2445.62.45.18.*			
			Solenoid-Solenoid 2x3/2 N.C. (14) - N.O. (12)	2445.62.45.35.*			
			Pneum.-Pneum. 2x3/2 N.O. (14) - N.C. (12)	2445.62.54.18.*			
			Solenoid-Solenoid 2x3/2 N.O. (14) - N.C. (12)	2445.62.54.35.*			
			Pneum.-Pneum. 2x3/2 N.O. - N.O. (=5/3 P.C.)	2445.62.55.18.*			
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2445.62.55.35.*			
Accessories 	FLAT		Modular base	2430.01	/	/	/
			Base with supply and exhaust closed	2430.06			
			Base with supply closed	2430.07			
			Base with exhaust closed	2430.08			
			Right inlet base	2430.02			
			Left inlet base	2430.03			
			Intermediate air intake	2430.10			
			Closing plate	2430.00			

Accessories





		Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
	FLAT	Support plate FLAT	2430.50			
		Modular base	2430.17			
	VDMA	Diaphragm plug	2440.01			
		Modular base for single separate inlet	2440.11			
		Right inlet base	2440.02			
		Left inlet base	2440.03			
		Intermediate air intake	2440.10			
		Closing plate	2440.00			
		Diaphragm plug	2440.17			
		Support plate VDMA	2440.50			
	4 places module	4 positions IP40-PNP left module	2400.04.00			
		4 positions IP40-PNP right module	2400.04.01			
		4 pos. IP40-PNP left modul with prot.diode	2400.04.02			
		4 pos. IP40-PNP right modul with prot. diode	2400.04.03			
		4 positions IP65-PNP left module	2400.04.10			
		4 positions IP65-PNP right module	2400.04.11			
		4 pos. IP65-PNP left modul with prot.diode	2400.04.12			
		4 pos. IP65-PNP right modul with prot. diode	2400.04.13			
	2 places module	2 positions IP40-PNP left module	2400.02.00			
		2 positions IP40-PNP right module	2400.02.01			
		2 pos. IP40-PNP left modul with prot.diode	2400.02.02			
		2 pos. IP40-PNP right modul with prot. diode	2400.02.03			
		2 positions IP65-PNP left module	2400.02.10			
		2 positions IP65-PNP right module	2400.02.11			
		2 pos. IP65-PNP left modul with prot.diode	2400.02.12			
		2 pos. IP65-PNP right modul with prot. diode	2400.02.13	/	/	/
	Front connector	37 contacts IP 65 connector	2400.37.10			
		25 contacts IP 65 connector	2400.25.10			
		Plug	2440.00			
		Closing plate electrical positions	2400.15.00			
		4 positions box with 25 contact connector	2400.04.25			
		15 mm male connector with 2 metres cable	2400.15.02			
Mobile positioning cable c/w connector	25 contacts	3 m. - IP40	2400.25.03.00			
		5 m. - IP40	2400.25.05.00			
		10 m. - IP40	2400.25.10.00			
		3 m. - casing IP65 in line	2300.25.03.10			
		5 m. - casing IP65 in line	2300.25.05.10			
		10 m. - casing IP65 in line	2300.25.10.10			
		3 m. - casing IP65 90° angle	2300.25.03.90			
		5 m. - casing IP65 90° angle	2300.25.05.90			
		10 m. - casing IP65 90° angle	2300.25.10.90			
	37 contacts	3 m. - IP40	2400.37.03.00			
		5 m. - IP40	2400.37.05.00			
		10 m. - IP40	2400.37.10.00			
		3 m. - casing IP65 in line	2400.37.03.10			
		5 m. - casing IP65 in line	2400.37.05.10			
		10 m. - casing IP65 in line	2400.37.10.10			
		3 m. - casing IP65 90° angle	2400.37.03.90			
		5 m. - casing IP65 90° angle	2400.37.05.90			
		10 m. - casing IP65 90° angle	2400.37.10.90			

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 1/4" LINE	5/2		Pneumatic - Differential	2615.52.00.16	10 bar	1500Nl/min	mm 9
			Pneumatic - Pneumatic external	2615.52.00.17			
			Pneumatic - Pneumatic	2615.52.00.18			
			Pneumatic - Spring	2615.52.00.19			
			Solenoid external - Solenoid external	2615.52.00.24.*			
			Solenoid external - Differential	2615.52.00.26.*			
			Solenoid external - Differential external	2615.52.00.27.*			
			Solenoid external - Spring	2615.52.00.29.*			
			Solenoid - Solenoid	2615.52.00.35.*			
			Solenoid - Differential	2615.52.00.36.*			
			Solenoid - Differential external	2615.52.00.37.*			
			Solenoid - Spring	2615.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2615.53.31.18.*	10 bar	1350Nl/min	
			Pneumatic - Pneumatic O.C.	2615.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2615.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2615.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2615.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2615.53.33.24.*			
			Solenoid - Solenoid C.C.	2615.53.31.35.*			
			Solenoid - Solenoid O.C.	2615.53.32.35.*			
			Solenoid - Solenoid P.C.	2615.53.33.35.*			
G 3/8" LINE	5/2		Pneumatic - Differential	2611.52.00.16	10 bar	1500Nl/min	mm 9
			Pneumatic - Pneumatic external	2611.52.00.17			
			Pneumatic - Pneumatic	2611.52.0018			
			Pneumatic - Spring	2611.52.00.19			
			Solenoid external - Solenoid external	2611.52.00.24.*			
			Solenoid external - Differential	2611.52.00.26*			
			Solenoid external - Differential external	2611.52.00.27.*			
			Solenoid external - Spring	2611.52.00.29.*			
			Solenoid - Solenoid	2611.52.00.35.*			
			Solenoid - Differential	2611.52.00.36.*			
			Solenoid - Differential external	2611.52.00.37.*			
			Solenoid - Spring	2611.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2611.53.31.18.*	10 bar	1350Nl/min	
			Pneumatic - Pneumatic O.C.	2611.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2611.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2611.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2611.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2611.53.33.24.*			
			Solenoid - Solenoid C.C.	2611.53.31.35.*			
			Solenoid - Solenoid O.C.	2611.53.32.35.*			
			Solenoid - Solenoid P.C.	2611.53.33.35.*			

* = List of voltages:
01 = 12 VDC
02 = 24 VDC
05 = 24 VAC
06 = 110 VAC
07 = 230 VAC
08 = 24 VDC 1 W
09 = 24 VDC Earth faston
11 = 12 VDC Downward
12 = 24 VDC Downward
15 = 24 VAC Downward
16 = 110 VAC Downward
17 = 230 VAC Downward
18 = 24 VDC 1 W Downward
19 = 24 VDC Earth faston Downward

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Tube Ø10 LINE 	5/2		Pneumatic - Differential	2618.52.00.16	10 bar	1500Nl/min	mm 9
			Pneumatic - Pneumatic external	2618.52.00.17			
			Pneumatic - Pneumatic	2618.52.00.18			
			Pneumatic - Spring	2618.52.00.19			
			Solenoid external - Solenoid external	2618.52.00.24.*			
			Solenoid external - Differential	2618.52.00.26.*			
			Solenoid external - Differential external	2618.52.00.27.*			
			Solenoid external - Spring	2618.52.00.29.*			
			Solenoid - Solenoid	2618.52.00.35.*			
			Solenoid - Differential	2618.52.00.36.*			
			Solenoid - Differential external	2618.52.00.37.*			
			Solenoid - Spring	2618.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2618.53.31.18.*	10 bar	1350Nl/min	
			Pneumatic - Pneumatic O.C.	2618.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2618.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2618.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2618.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2618.53.33.24.*			
			Solenoid - Solenoid C.C.	2618.53.31.35.*			
			Solenoid - Solenoid O.C.	2618.53.32.35.*			
			Solenoid - Solenoid P.C.	2618.53.33.35.*			
G 1/4" FLAT 	5/2		Pneumatic - Differential	2635.52.00.16	10 bar	1500Nl/min	mm 9
			Pneumatic - Pneumatic external	2635.52.00.17			
			Pneumatic - Pneumatic	2635.52.00.18			
			Pneumatic - Spring	2635.52.00.19			
			Solenoid external - Solenoid external	2635.52.00.24.*			
			Solenoid external - Differential	2635.52.00.26.*			
			Solenoid external - Differential external	2635.52.00.27.*			
			Solenoid external - Spring	2635.52.00.29.*			
			Solenoid - Solenoid	2635.52.00.35.*			
			Solenoid - Differential	2635.52.00.36.*			
			Solenoid - Differential external	2635.52.00.37.*			
			Solenoid - Spring	2635.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2635.53.31.18.*	10 bar	1350Nl/min	
			Pneumatic - Pneumatic O.C.	2635.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2635.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2635.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2635.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2635.53.33.24.*			
			Solenoid - Solenoid C.C.	2635.53.31.35.*			
			Solenoid - Solenoid O.C.	2635.53.32.35.*			
			Solenoid - Solenoid P.C.	2635.53.33.35.*			

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01 = 12 VDC
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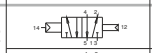
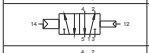
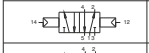
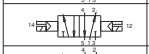
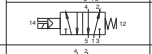
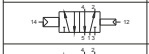
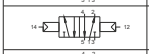
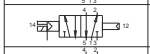
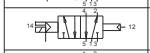
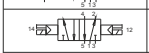
05 = 24 VAC
06 = 110 VAC
07 = 230 VAC
08 = 24 VDC 1 W
09 = 24 VDC Earth faston
11 = 12 VDC Downward
12 = 24 VDC Downward
15 = 24 VAC Downward
16 = 110 VAC Downward
17 = 230 VAC Downward
18 = 24 VDC 1 W Downward
19 = 24 VDC Earth faston Downward

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
G 3/8" FLAT      	5/2		Pneumatic - Differential	2631.52.00.16	10 bar	1500Nl/min	mm 9
			Pneumatic - Differential external	2631.52.00.17			
			Pneumatic - Pneumatic	2631.52.00.18			
			Pneumatic - Spring	2631.52.00.19			
			Solenoid external - Solenoid external	2631.52.00.24.*			
			Solenoid external - Differential	2631.52.00.26.*			
			Solenoid external - Differential external	2631.52.00.27.*			
			Solenoid external - Spring	2631.52.00.29.*			
			Solenoid - Solenoid	2631.52.00.35.*			
			Solenoid - Differential	2631.52.00.36.*			
			Solenoid - Differential external	2631.52.00.37.*			
			Solenoid - Spring	2631.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2631.53.31.18.*	10 bar	1350Nl/min	
			Pneumatic - Pneumatic O.C.	2631.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2631.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2631.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2631.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2631.53.33.24.*			
			Solenoid - Solenoid C.C.	2631.53.31.35.*			
			Solenoid - Solenoid O.C.	2631.53.32.35.*			
			Solenoid - Solenoid P.C.	2631.53.33.35.*			
Tube Ø10 FLAT 	5/2		Pneumatic - Differential	2638.52.00.16	10 bar	1500Nl/min	mm 9
			Pneumatic - Pneumatic external	2638.52.00.17			
			Pneumatic - Pneumatic	2638.52.00.18			
			Pneumatic - Spring	2638.52.00.19			
			Solenoid external - Solenoid external	2638.52.00.24.*			
			Solenoid external - Differential	2638.52.00.26.*			
			Solenoid external - Differential external	2638.52.00.27.*			
			Solenoid external - Spring	2638.52.00.29.*			
			Solenoid - Solenoid	2638.52.00.35.*			
			Solenoid - Differential	2638.52.00.36.*			
			Solenoid - Differential external	2638.52.00.37.*			
			Solenoid - Spring	2638.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2638.53.31.18.*	10 bar	1350Nl/min	
			Pneumatic - Pneumatic O.C.	2638.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2638.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2638.53.31.24.*			
			Solenoid external - Solenoid external O.C.	2638.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2638.53.33.24.*			
			Solenoid - Solenoid C.C.	2638.53.31.35.*			
			Solenoid - Solenoid O.C.	2638.53.32.35.*			
			Solenoid - Solenoid P.C.	2638.53.33.35.*			

* = List of voltages:
01 = 12 VDC
02 = 24 VDC
05 = 24 VAC
06 = 110 VAC
07 = 230 VAC
08 = 24 VDC 1 W
09 = 24 VDC Earth faston
11 = 12 VDC Downward
12 = 24 VDC Downward
15 = 24 VAC Downward
16 = 110 VAC Downward
17 = 230 VAC Downward
18 = 24 VDC 1 W Downward
19 = 24 VDC Earth faston Downward

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
VDMA Electropilot exhaust on pilot	5/2		Pneumatic - Differential	2645.52.00.16	10 bar	1100Nl/min	mm 7,5
			Pneumatic - Differential external	2645.52.00.17			
			Pneumatic - Pneumatic	2645.52.00.18			
			Pneumatic - Spring	2645.52.00.19			
			Solenoid external - Solenoid external	2645.52.00.24.*			
			Solenoid external - Differential	2645.52.00.26.*			
			Solenoid external - Differential external	2645.52.00.27.*			
			Solenoid external - Spring	2645.52.00.29.*			
			Solenoid - Solenoid	2645.52.00.35.*			
			Solenoid - Differential	2645.52.00.36.*	10 bar	1100Nl/min	
			Solenoid - Differential external	2645.52.00.37.*			
			Solenoid - Spring	2645.52.00.39.*			
	5/3		Pneumatic - Pneumatic C.C.	2645.53.31.18.*			
			Pneumatic - Pneumatic O.C.	2645.53.32.18.*			
			Pneumatic - Pneumatic P.C.	2645.53.33.18.*			
			Solenoid external - Solenoid external C.C.	2645.53.31.24.*	10 bar	1000Nl/min	
			Solenoid external - Solenoid external O.C.	2645.53.32.24.*			
			Solenoid external - Solenoid external P.C.	2645.53.33.24.*			
			Solenoid - Solenoid C.C.	2645.53.31.35.*			
			Solenoid - Solenoid O.C.	2645.53.32.35.*			
			Solenoid - Solenoid P.C.	2645.53.33.35.*			
VDMA Electropilot exhaust on base	5/2		Solenoid - Solenoid	2641.52.00.35.*	10 bar	1100Nl/min	mm 7,5
			Solenoid - Differential	2641.52.00.36.*			
			Solenoid - Spring	2641.52.00.39.*			
	5/3		Solenoid - Solenoid C.C.	2641.53.31.35.*	10 bar	1000Nl/min	
			Solenoid - Solenoid O.C.	2641.53.32.35.*			
			Solenoid - Solenoid P.C.	2641.53.33.35.*			
Accessories Size 26 mm		FLAT	Modular base	2630.01	/	/	/
			Right inlet base	2630.02			
			Left inlet base	2630.03			
			Intermediate air intake	2630.10			
			Closing plate	2630.00			
			Diaphragm plug	2630.17			
		VDMA	Modular base	2640.01			
			Modular base for single separate inlet	2640.11			
			Right inlet base	2640.02			
			Left inlet base	2640.03			
			Intermediate air intake	2640.10			
			Closing plate	2640.00			
			Diaphragm plug	2640.17			

* = List of voltages:
01 = 12 VDC
02 = 24 VDC
05 = 24 VAC
06 = 110 VAC
07 = 230 VAC
08 = 24 VDC 1 W
09 = 24 VDC Earth faston
11 = 12 VDC Downward
12 = 24 VDC Downward
15 = 24 VAC Downward
16 = 110 VAC Downward
17 = 230 VAC Downward
18 = 24 VDC 1 W Downward
19 = 24 VDC Earth faston Downward

	Symbol	Description	Code	Flow at 6 bar, Δp=1	Working pressure	Min. piloting Pressure
5/2		Solenoid - Solenoid External feeding (CE)	2741.52.00.24.*	1000Nl/min	From vacuum to 10 bar	2 bar
		Solenoid - Differential External feeding (BE)	2741.52.00.26.*			
		Solenoid - Spring External feeding (AE)	2741.52.00.29.*			
		Solenoid - Solenoid Self feeding (CA)	2741.52.00.35.*			
		Solenoid - Differential Self feeding (BA)	2741.52.00.36.*			
		Solenoid - Spring Self feeding (AA)	2741.52.00.39.*			
5/3		Solenoid - Solenoid External feeding (EE)	2741.53.31.24.*	660Nl/min	From vacuum to 10 bar	3 bar
		Solenoid - Solenoid Self feeding (EA)	2741.53.31.35.*			
2x3/2		Solenoid - Solenoid 2 spools N.C. (FE)	2741.62.44.24.*	550Nl/min	From vacuum to 10 bar	**
		Solenoid - Solenoid 1 spool N.C. + 1 N.O. (HE)	2741.62.45.24.*			
		Solenoid - Solenoid 1 spool N.O. + 1 N.C. (IE)	2741.62.54.24.*			
		Solenoid - Solenoid 2 spools N.O. (GE)	2741.62.55.24.*			
		Solenoid - Solenoid 2 spools N.C. (FA)	2741.62.44.35.*			
		Solenoid - Solenoid 1 spool N.C. + 1 N.O. (HA)	2741.62.45.35.*			
		Solenoid - Solenoid 1 spool N.O. + 1 N.C. (IA)	2741.62.54.35.*			
		Solenoid - Solenoid 2 spools N.O. (GA)	2741.62.55.35.*			

** = ≥2+(0,3xP. alim.)

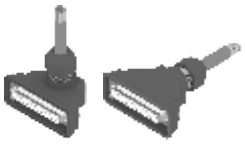
* = List of voltages: **01** = 12 VDC **02** = 24 VDC **08** = 24 VDC 1 W

Accessories

Left Endplates		Right Endplates	
37 Poles	25 Poles		
2740.02.37P	**2740.02.25P**	**2740.03.00**	**2740.03.25P**
2740.02.37N	**2740.02.25N**		
			
		00 = Closed outlet electrical connection 25P = 25 Poles PNP connection	

Closing plate	Modular base		Diaphragm plug
2740.00	**2740.01M (Monostable)**	**2740.01B (Bistable)**	**2740.17**
			

Cable complete with connector 25 poles Ip65	Description	Code	Cable complete with connector 25 poles IP65
	3 meters - In line	2300.25.03.10	
	5 meters - In line	2300.25.05.10	
	10 meters - In line	2300.25.10.10	
	3 meters - 90° angle	2300.25.03.90	
	5 meters - 90° angle	2300.25.05.90	
	10 meters - 90° angle	2300.25.10.90	

Cable complete with connector 37 poles Ip65	Description	Code	Description	Code
	3 meters - In line	2400.37.03.10	3 meters - In line	2400.25.03.25
	5 meters - In line	2400.37.05.10	5 meters - In line	2400.25.05.25
	10 meters - In line	2400.37.10.10	10 meters - In line	2400.25.10.25
	3 meters - 90° angle	2400.37.03.90		
	5 meters - 90° angle	2400.37.05.90		
	10 meters - 90° angle	2400.37.10.90		

Serial systems

Module 8 Inputs	Slave *CANopen*®	Slave *DeviceNet*	Slave *PROFIBUS DP*
2540.08T	**5525.32T**	**5425.32T**	**5325.32T**
	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 
Slave Ether*CAT*®	Slave ***PROFINET IO RT/IRT***	Slave ***EtherNet/IP***	Slave ***Powerlink***
5725.32T.EC	**5725.32T.PN**	**5725.32T.EI**	**5725.32T.PL**
Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 
Slave ***Modbus TCP***	Module 8 inputs - M8	Module 8 inputs - M12	2 Input module
5725.32T.MT	**5225.08T**	**5225.12T**	**5225.2 _ . _ _T**
Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Maximum n. inlet module for Canopen®, DeviceNet and EtherCAT® : 4 Maximum n. inlet module for PROFIBUS DP, PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP : 8 	Maximum n. inlet module for Canopen®, DeviceNet and EtherCAT® : 4 Maximum n. inlet module for PROFIBUS DP, PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP: 8 	Maximum n. inlet module for Canopen®, DeviceNet PROFIBUS DP and EtherCAT® : 1 Maximum n. inlet module for PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP : 2 
	2 Input module - Pt100	2 Input module - Pt100 extended range	
	5225.2P . 0 _T	**5225.2P . 1 _T**	
	Maximum n. inlet module for Canopen®, DeviceNet PROFIBUS DP and EtherCAT® : 1 Maximum n. inlet module for PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP : 2 	Maximum n. inlet module for Canopen®, DeviceNet PROFIBUS DP and EtherCAT® : 1 Maximum n. inlet module for PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP : 2 	

POWER SUPPLY connector

Female straight connector M12A 4P
5312A.F04.00


INPUT connectors

Male straight connector M8 3P	Male straight connector M12A 5P
5308A.M03.00	**5312A.M05.00**
	

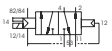
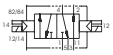
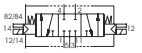
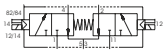
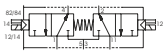
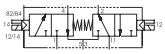
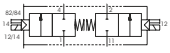
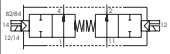
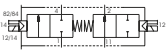
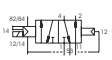
NETWORK connectors

Female straight connector M12A 5P	Male straight connector M12A 5P	Female straight connector M12B 5P	Male straight connector M12B 5P	Male straight connector M12D 4P
5312A.F05.00	**5312A.M05.00**	**5312B.F05.00**	**5312B.M05.00**	**5312D.M04.00**
 For Bus ***CAN****open*® and DeviceNet	 For Bus ***CAN****open*® and DeviceNet	 For Bus ***PROFIBUS DP***	 For Bus ***PROFIBUS DP***	 For Bus Ether***CAT***®, EtherNet/IP, PROFINET IO RT/IRT, Powerlink and Modbus/TCP

Plugs

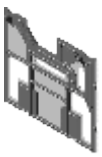
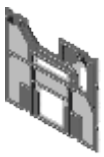
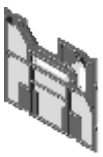
Plug M12	Plug M8
5300.T08	**5300.T12**
	

Lay-out Battery Configurations: See General Catalogue

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Tube Ø4 - Ø6 - Ø8	5/2		EV 5/2 Solenoid - Spring (A4) Ø4	2304.52.00.39.*	700Nl/min	*Conduit* 1 - 11 From vacuum to 10 bar *Piloting* 12 - 14 2,5 - 7 bar	Tube ø4 Tube ø6 Tube ø8
			EV 5/2 Solenoid - Spring (A6) Ø6	2306.52.00.39.*			
			EV 5/2 Solenoid - Spring (A8) Ø8	2308.52.00.39.*			
			EV 5/2 Solenoid - Differential (B4) Ø4	2304.52.00.36.*			
			EV 5/2 Solenoid - Differential (B6) Ø6	2306.52.00.36.*			
			EV 5/2 Solenoid - Differential (B8) Ø8	2308.52.00.36.*			
			EV 5/2 Solenoid - Solenoid (C4) Ø4	2304.52.00.35.*			
			EV 5/2 Solenoid - Solenoid (C6) Ø6	2306.52.00.35.*			
			EV 5/2 Solenoid - Solenoid (C8) Ø8	2308.52.00.35.*			
	5/3		EV 5/3 Solenoid - Solenoid (E4) Ø4	2304.53.31.35.*	550Nl/min		
			EV 5/3 Solenoid - Solenoid (E6) Ø6	2306.53.31.35.*			
			EV 5/3 Solenoid - Solenoid (E8) Ø8	2308.53.31.35.*			
	2x3/2		EV 2x3/2 Solenoid - Solenoid (F4)Ø4	2304.62.44.35.*	700Nl/min		
			EV 2x3/2 Solenoid - Solenoid (F6) Ø6	2306.62.44.35.*			
			EV 2x3/2 Solenoid - Solenoid (F8) Ø8	2308.62.44.35.*			
			EV 2x3/2 Solenoid - Solenoid (G4) Ø4	2304.62.55.35.*			
			EV 2x3/2 Solenoid - Solenoid (G6) Ø6	2306.62.55.35.*			
			EV 2x3/2 Solenoid - Solenoid (G8) Ø8	2308.62.55.35.*			
			EV 2x3/2 Solenoid - Solenoid (H4) Ø4	2304.62.45.35.*			
			EV 2x3/2 Solenoid - Solenoid (H6) Ø6	2306.62.45.35.*			
			EV 2x3/2 Solenoid - Solenoid (H8) Ø8	2308.62.45.35.*			
	2x2/2		EV 2x2/2 Solenoid - Solenoid (L4) Ø4	2304.42.44.35.*			
			EV 2x2/2 Solenoid - Solenoid (L6) Ø6	2306.42.44.35.*			
			EV 2x2/2 Solenoid - Solenoid (L8) Ø8	2308.42.44.35.*			
			EV 2x2/2 Solenoid - Solenoid (M4) Ø4	2304.42.55.35.*			
			EV 2x2/2 Solenoid - Solenoid (M6) Ø6	2306.42.55.35.*			
			EV 2x2/2 Solenoid - Solenoid (M8) Ø8	2308.42.55.35.*			
			EV 2x2/2 Solenoid - Solenoid (N4) Ø4	2304.42.45.35.*			
			EV 2x2/2 Solenoid - Solenoid (N6) Ø6	2306.42.45.35.*			
			EV 2x2/2 Solenoid - Solenoid (N8) Ø8	2308.42.45.35.*			
	5/2		EV 5/2 Solenoid - Spring CEB (P4) Ø4	2314.52.00.39.*			
			EV 5/2 Solenoid - Spring CEB (P6) Ø6	2316.52.00.39.*			
			EV 5/2 Solenoid - Spring CEB (P8) Ø8	2318.52.00.39.*			
			EV 5/2 Solenoid - Differential CEB (R4) Ø4	2314.52.00.36.*			
			EV 5/2 Solenoid - Differentila CEB (R6) Ø6	2316.52.00.36.*			
			EV 5/2 Solenoid - Differential CEB (R8) Ø8	2318.52.00.36.*			

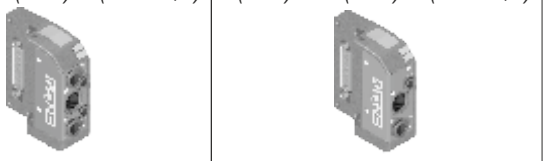
* = List of voltages: 02 = micros. 24 V D.C. (PNP)
12 = micros. 24 V D.C. (NPN)

Accessories

DIN rail adapter	Fixing bracket	Exhaust diaphragm	Exhaust diaphragm	Exhaust diaphragm
2300.16	**2300.50**	**2317.08** (Exhaust)	**2317.12** (Inlet)	**2317.20** (Complete)
				

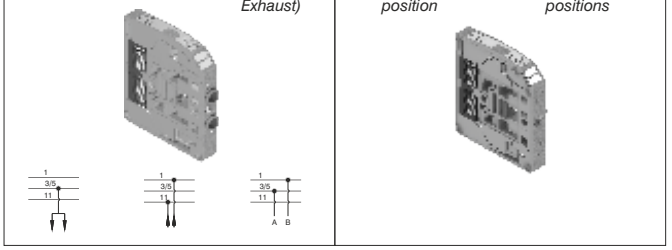
Accessories

Left endplates 5 ports			Left endplates 3 ports		
2311.05P	**2311.05N**	**2311.05S**	**2311.03P**	**2311.03N**	**2311.03S**
(PNP)	*(NPN)*	*(PNP-VQC)*	*(PNP)*	*(NPN)*	*(PNP-VQC)*



Right Endplates Closed
2312.00

Intermediate Inlet/Exhaust module			Intermediate module	
2308.08	**2308.12**	**2308.20**	**2300.01**	**2300.02**
(Exhaust)	*(Inlet)*	*(Inlet/ Exhaust)*	*1 electric position*	*2 electric positions*



	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Cable c/w 25 poles, IP65 connector (with housing)	3 meters - IP65 - in line	2300.25.03.10	/	/	/
	5 meters - IP65 - in line	2300.25.05.10			
	10 meters - IP65 - in line	2300.25.10.10			
	3 meters - IP65 - 90° angle	2300.25.03.90			
	5 meters - IP65 - 90° angle	2300.25.05.90			
	10 meters - IP65 - 90° angle	2300.25.10.90			

Serial systems - Slave ***CAN**open*®**	Serial systems - Slave ***DeviceNet***	Serial systems - Slave ***PROFIBUS***
5523.22	**5423.22**	**5323.22**
Outlets, maximum numbers : 22 Maximum n. outlets that can be actuated simult.: 22 Inlets numbers : 22	Outlets, maximum numbers : 22 Maximum n. outlets that can be actuated simult.: 22 Inlets numbers : 22	Outlets, maximum numbers : 22 Maximum n. outlets that can be actuated simult.: 22 Inlets numbers : 22

POWER SUPPLY connector

Female straight connector M12A 4P
5312A.F04.00

Module 8 positions
5200.08
Maximum n. inlet module : 4

INPUT connector

Male straight connector M8 3P
5308A.M03.00

NETWORK connectors

Female straight connector M12A 5P	Male straight connector M12A 5P	Female straight connector M12B 5P	Male straight connector M12B 5P
5312A.F05.00	**5312A.M05.00**	**5312B.F05.00**	**5312B.M05.00**
For Bus ***CAN**open*®**	For Bus ***CAN**open*®**	For Bus ***PROFIBUS DP***	For Bus ***PROFIBUS DP***

Plugs

Plug M8	Plug M12
5300.T12	**5300.T08**

The 2300 series is certified by UL in compliance with both Canadian and USA safety requirements as recognized component and included in the **UL file Mh49479.**
The manifolds assembled and tested by Pneumax are UL certified and bear the "UL Recognized Component" marking.
Optyma-S manifolds, since they are devices for "class 2 circuits", according with UL standard UL 429/CSA C22.2 N°139, are not considered dangerous for electric shock or fire and thus a **UL certification is not required for cables and connectors.**

	Symbol	Description	Code	Flow at 6 bar, Δp=1	Warking Pressure	Min. piloting Pressure
5/2		EV 5/2 Solenoid - Spring (A)	2241.52.00.39.*	550Nl/min	From vacuum to 10 bar	2,5 bar
		EV 5/2 Solenoid - Differential (B)	2241.52.00.36.*			
		EV 5/2 Solenoid - Solenoid (C)	2241.52.00.35.*			
5/3		EV 5/3 Solenoid - Solenoid (E) (C.C.)	2241.53.31.35.*	400Nl/min		**
2x3/2		EV 2x3/2 Sol. - Sol. N.C.-N.C. (F) (O.C.)	2241.62.44.35.*	420Nl/min		
		EV 2x3/2 Sol. - Sol. N.O.-N.O. (G) (P.C.)	2241.62.55.35.*			
		EV 2x3/2 Sol. - Sol. N.C.-N.O. (H)	2241.62.45.35.*			
		EV 2x3/2 Sol. - Sol. N.O.-N.C. (I)	2241.62.54.35.*			

** = ≥3+(0,2xP.alim.) * = List of voltage: **02** = micros. 24 VDC (PNP) - **12** = micros. 24 VDC (NPN) - **05** = micros. 24 VAC

Accessories

Closing plates	Modular base for monostable solenoid valve	Modular base for bistable solenoid valve	Intermediate Inlet/ Exhaust module	Diaphragm plug
2240.00	**224*.01M**	**224*.01B**	**2240.10**	**2230.17**
	* **4** = Quick fitting tube Ø4 **6** = Quick fitting tube Ø6 **8** = Quick fitting tube Ø8	** **1**=opened port **6**=separated ports **7**=port 1 separated **8**=port 3 - 5 separated		

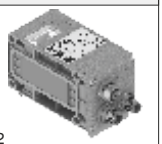
Left Endplates				Right Endplates		Silencers polyethylene series SPLR	
37 Poles		25 Poles					
2240.02.37P	**2240.12.37P**	**2240.02.25P**	**2240.12.25P**	**2240.03.00**	**2240.03.25P**	**SPLR-***	**SPLR-****
2240.02.37N	**2240.12.37N**	**2240.02.25N**	**2240.12.25N**				
2240.02.37A	**2240.12.37A**	**2240.02.25A**	**2240.12.25A**				
02 = External feeding base (12/14 divided from conduit 1) 12 = Self-feeding Base (12/14 connected with conduit 1)				00 = Closed outlet electrical connection 25P = 25 Poles PNP connection		* Diameter 6,0 mm ** Diameter 10,0 mm	

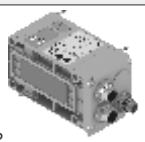
Tie-rod M3	Nut
2240.KT.*	**2240.KD.00**
* : Nr. Positions (02, 04...32)	

Cable complete with connector 25 poles IP65	Description	Code	Cable complete with connector 25 poles Ip65
	3 meters - In line	2300.25.03.10	
	5 meters - In line	2300.25.05.10	
	10 meters - In line	2300.25.10.10	
	3 meters - 90° angle	2300.25.03.90	
	5 meters - 90° angle	2300.25.05.90	
	10 meters - 90° angle	2300.25.10.90	

Cable complete with connector 37 poles IP65	Description	Code	Description	Code
	3 meters - In line	2400.37.03.10	3 meters - In line	2400.25.03.25
	5 meters - In line	2400.37.05.10	5 meters - In line	2400.25.05.25
	10 meters - In line	2400.37.10.10	10 meters - In line	2400.25.10.25
	3 meters - 90° angle	2400.37.03.90		
	5 meters - 90° angle	2400.37.05.90		
	10 meters - 90° angle	2400.37.10.90		

Serial systems

Module 8 Inputs/Outputs	Slave *CANopen*®	Slave *DeviceNet*	Slave *PROFIBUS DP*
2240.08S	**5522.32S**	**5422.32S**	**5322.32S**
	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32

Slave *EtherCAT*®	Slave *PROFINET IO RT/IRT*	Slave *EtherNet/IP*
5722.32S.EC	**5722.32S.PN**	**5722.32S.EI**
 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32
Slave *Powerlink*	Slave *Modbus TCP*	Module 8 Imputs
5722.32S.PL	**5722.32S.MT**	
 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32	 Maximum n. inlet module: 4

Accessories

POWER SUPPLY connector

Female straight connector M12A 4P
5312A.F04.00


INPUT connector

Male straight connector M8 3P
5308A.M03.00


NETWORK connectors

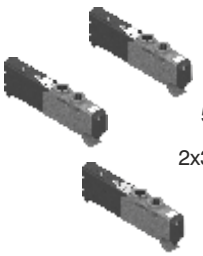
Female straight connector M12A 5P	Male straight connector M12A 5P	Female straight connector M12B 5P	Male straight connector M12B 5P	Male straight connector M12D 4P
5312A.F05.00	**5312A.M05.00**	**5312B.F05.00**	**5312B.M05.00**	**5312D.M04.00**
 For Bus *CANopen*® and DeviceNet	 For Bus *CANopen*® and DeviceNet	 For Bus ***PROFIBUS DP***	 For Bus ***PROFIBUS DP***	 For Bus Ether**CAT**®, EtherNet/IP, PROFINET IO RT/IRT, Powerlink and Modbus/TCP

Plugs

Plug M8	Plug M12
5300.T08	**5300.T12**
	

The 2200 series is certified by UL in compliance with both Canadian and USA safety requirements as recognized component and included in the **UL file Mh49479.**
The manifolds assembled and tested by Pneumax are UL certified and bear the "UL Recognized Component" marking.
Optyma-S manifolds, since they are devices for "class 2 circuits", according with UL standard UL 429/CSA C22.2 N°139, are not considered dangerous for electric shock or fire and thus a **UL certification is not required for cables and connectors.**

Lay-out Battery Configurations: See General Catalogue



	Symbol	Description	Code	Flow rate at 6 bar, Δp=1	Working pressure	Min. piloting Pressure
5/2		Solenoid - Spring (A)	2531.52.00.39.*	1000Nl/min	From vacuum to 10 bar	3 bar
		Solenoid - Differential (B)	2531.52.00.36.*			
		Solenoid - Solenoid (C)	2531.52.00.35.*			
5/3		Solenoid - Solenoid (E) (C.C.)	2531.53.31.35.*	600Nl/min		**
2x3/2		Solenoid - Solenoid N.C.-N.C. (F) (O.C.)	2531.62.44.35.*	700Nl/min		
		Solenoid - Solenoid N.O.-N.O. (G) (P.C.)	2531.62.55.35.*			
		Solenoid - Solenoid N.C.-N.O. (H)	2531.62.45.35.*			
		Solenoid - Solenoid N.O.-N.C. (I)	2531.62.54.35.*			

** = ≥2,5+(0,2xP.alim.) * = List of voltage: **02** = micros. 24 VDC (PNP) - **12** = micros. 24 VDC (NPN) - **05** = micros. 24 VAC

Accessories

Closing plate	Modular base type 1 for monostable solenoid valve	Modular base type 2 for bistable solenoid valve	Intermediate Inlet/ Exhaus module
2530.00	**2530.01M**	**2530.01B**	**2530.10**
			

Diaphragm plug	Additional power supply module, 2 positions	Additional power supply module, 4 positions
2530.17	**2530.10.2A**	**2530.10.4A**
		

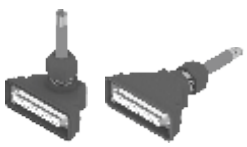
Left Endplates						Right Endplates		Silencers polyethylene series SPLP		
37 Poles			25 Poles							
2530.02.37P	**2530.12.37P**	**2530.12.C16**	**2530.02.25P**	**2530.12.25P**	**2530.12.C16**	**2530.03.00**	**2530.03.25P**	SPLP-*	SPLP-**	SPLP-***
2530.02.37N	**2530.12.37N**		**2530.02.25N**	**2530.12.25N**						
2530.02.37A	**2530.12.37A**		**2530.02.25A**	**2530.12.25A**						
										

02 = External feeding base (12/14 divided from conduit 1)
12 = Self-feeding Base (12/14 connected with conduit 1)
C16 = Terminal 16 signals PNP

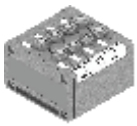
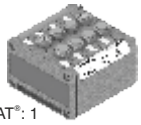
00=Closed outlet electrical connection
25P=25 Poles PNP connection

* Diameter 1/8"
** Diameter 1/4"
*** Diameter 3/8"

Cable complete with connector 25 poles IP65	Description	Code	Cable complete with connector 25 poles IP65
	3 meters - In line	2300.25.03.10	
	5 meters - In line	2300.25.05.10	
	10 meters - In line	2300.25.10.10	
	3 meters - 90° angle	2300.25.03.90	
	5 meters - 90° angle	2300.25.05.90	
	10 meters - 90° angle	2300.25.10.90	

Cable complete with connector 37 poles IP65	Description	Code	Description	Code
	3 meters - In line	2400.37.03.10	3 meters - In line	2400.25.03.25
	5 meters - In line	2400.37.05.10	5 meters - In line	2400.25.05.25
	10 meters - In line	2400.37.10.10	10 meters - In line	2400.25.10.25
	3 meters - 90° angle	2400.37.03.90		
	5 meters - 90° angle	2400.37.05.90		
	10 meters - 90° angle	2400.37.10.90		

Serial systems

Module 8 Inputs / Outputs	Slave ***CAN**open*®**	Slave ***DeviceNet***	Slave ***PROFIBUS DP***
2530.08F	**5525.32F**	**5425.32F**	**5325.32F**
	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32
Slave Ether***CAT***®	Slave ***PROFINET IO RT/IRT***	Slave ***EtherNet/IP***	Slave ***Powerlink***
5625.32F	**5725.32F.PN**	**5725.32F.EI**	**5725.32F.PL**
 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32	 Outlets, maximum n.: 32 Maximum n. outlets that can be actuated simult.: 32
Slave ***Modbus TCP***	Module 8 Inputs	Module 16 Inputs	Module 2 Inputs
5725.32F.MT	**5225.08F**	**5225.25F**	**5225.2 _ . _ _F**
 Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32	 Maximum n. inlet module: 4	 Maximum n. inlet module for Canopen®, DeviceNet and EtherCAT®: 2 Maximum n. inlet module for PROFIBUS DP PROFINET IO RT/IRT, EtherNet/IP, Powerlink ModBust and TCP : 4	 Maximum n. inlet module for Canopen®, DeviceNet PROFIBUS DP and EtherCAT®: 1 Maximum n. inlet module for PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP : 2

Accessories

POWER SUPPLY connector

Female straight connector M12A 4P
5312A.F04.00


INPUT connector

Male straight connector M8 3P
5308A.M03.00

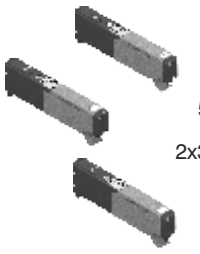
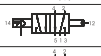
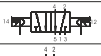
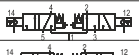
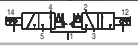

NETWORK connectors

Female straight connector M12A 5P	Male straight connector M12A 5P	Female straight connector M12B 5P	Male straight connector M12B 5P	Male straight connector M12D 4P
5312A.F05.00	**5312A.M05.00**	**5312B.F05.00**	**5312B.M05.00**	**5312D.M04.00**
 For Bus ***CAN**open*®, DeviceNet	 For Bus ***CAN**open*®, DeviceNet	 For Bus ***PROFIBUS DP***	 For Bus ***PROFIBUS DP***	 For Bus Ether***CAT***®, EtherNet/IP, PROFINET IO RT/IRT, Powerlink and Modbus/TCP

Plugs

Plug M8	Plug M12
5300.T08	**5300.T12**
	

Lay-out Battery Configurations: See General Catalogue

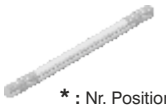
		Symbol	Description	Code	Flow rate at 6 bar, Δp=1	Working pressure	Min. piloting Pressure
	5/2		Solenoid - Spring (A)	2541.52.00.39.*	750Nl/min	From vacuum to 10 bar	3 bar
			Solenoid - Differential (B)	2541.52.00.36.*			
			Solenoid - Solenoid (C)	2541.52.00.35.*			
	5/3		Solenoid - Solenoid (E) (C.C.)	2541.53.31.35.*	600Nl/min		
	2x3/2		Solenoid - Solenoid N.C.-N.C. (F) (O.C.)	2541.62.44.35.*	700Nl/min		* *
			Solenoid - Solenoid N.O.-N.O. (G) (P.C.)	2541.62.55.35.*			
			Solenoid - Solenoid N.C.-N.O. (H)	2541.62.45.35.*			
			Solenoid - Solenoid N.O.-N.C. (I)	2541.62.54.35.*			

** = ≥2,5+(0,2xP.alim.) * = List of voltage: **02** = micros. 24 VDC (PNP) - **12** = micros. 24 VDC (NPN) - **05** = micros. 24 VAC

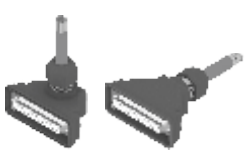
Accessories

Closing plates	Modular base for monostable solenoid valve	Modular base for bistable solenoid valve	Intermediate Inlet/ Exhaus module	Diaphragm plug
2530.00	**254*.01M**	**254*.01B**	**2540.10**	**2530.17**
	 * **1** = Connection G 1/8" female **4** = Cartridge Ø 4	 **6** = Quick fitting tube Ø 6 **8** = Quick fitting tube Ø 8		

Left Endplates				Right Endplates		Silencers polyethylene series SPLR	
37 Poles		25 Poles					
2540.02.37P	**2540.12.37P**	**2540.02.25P**	**2540.12.25P**	**2540.03.00**	**2540.03.25P**	**SPLR-***	**SPLR-****
2540.02.37N	**2540.12.37N**	**2540.02.25N**	**2540.12.25N**				
2540.02.37A	**2540.12.37A**	**2540.02.25A**	**2540.12.25A**				
				 00 = Closed outlet electrical connection 25P = 25 Poles PNP connection		 * Diameter 8 mm ** Diameter 12 mm	

Tie-rod M4	Nut	Tie-rod joint	Extension
2540.KT.*	**2540.KD.00**	**2540.KG.00**	**2540.KP.01**
 * : Nr. Position (01 - 16)			

Cable complete with connector 25 poles IP65	Description	Code	Cable complete with connector 25 poles IP65
	3 meters - In line	2300.25.03.10	
	5 meters - In line	2300.25.05.10	
	10 meters - In line	2300.25.10.10	
	3 meters - 90° angle	2300.25.03.90	
	5 meters - 90° angle	2300.25.05.90	
	10 meters - 90° angle	2300.25.10.90	

Cable complete with connector 37 poles IP65	Description	Code	Description	Code
	3 meters - In line	2400.37.03.10	3 meters - In line	2400.25.03.25
	5 meters - In line	2400.37.05.10	5 meters - In line	2400.25.05.25
	10 meters - In line	2400.37.10.10	10 meters - In line	2400.25.10.25
	3 meters - 90° angle	2400.37.03.90		
	5 meters - 90° angle	2400.37.05.90		
	10 meters - 90° angle	2400.37.10.90		

Serial systems

Module 8 Inputs	Slave ***CAN**open*®**	Slave ***DeviceNet***	Slave ***PROFIBUS DP***
2540.08T	**5525.32T**	**5425.32T**	**5325.32T**
	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 
Slave Ether***CAT***®	Slave ***PROFINET IO RT/IRT***	Slave ***EtherNet/IP***	Slave ***Powerlink***
5725.32T.EC	**5725.32T.PN**	**5725.32T.EI**	**5725.32T.PL**
Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 
Slave ***Modbus TCP***	Module 8 inputs - M8	Module 8 inputs - M12	2 Input module
5725.32T.MT	**5225.08T**	**5225.12T**	**5225.2 _ . _ _T**
Outlets, maximum n. : 32 Maximum n. outlets that can be actuated simult.: 32 	Maximum n. inlet module for Canopen®, DeviceNet and EtherCAT® : 4 Maximum n. inlet module for PROFIBUS DP, PROFINET IO RT/IRT, EtherNet/IP, Powerlink ModBust and TCP : 8 	Maximum n. inlet module for Canopen®, DeviceNet and EtherCAT® : 4 Maximum n. inlet module for PROFIBUS DP, PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP : 8 	Maximum n. inlet module for Canopen®, DeviceNet PROFIBUS DP and EtherCAT® : 1 Maximum n. inlet module for PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP : 2 
	2 Input module - Pt100	2 Input module - Pt100 extended range	
	5225.2P . 0 _T	**5225.2P . 1 _T**	
	Maximum n. inlet module for Canopen®, DeviceNet PROFIBUS DP and EtherCAT® : 1 Maximum n. inlet module for PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP: 2 	Maximum n. inlet module for Canopen®, DeviceNet PROFIBUS DP and EtherCAT® : 1 Maximum n. inlet module for PROFINET IO RT/IRT, EtherNet/IP, Powerlink and ModBust TCP: 2 	

Accessories

POWER SUPPLY connector

Female straight connector M12A 4P
5312A.F04.00


INPUT connectors

Male straight connector M8 3P	Male straight connector M12A 5P
5308A.M03.00	**5312A.M05.00**
	

NETWORK connectors

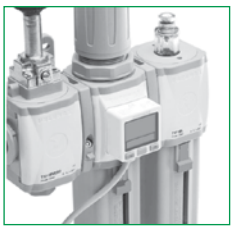
Female straight connector M12A 5P	Male straight connector M12A 5P	Female straight connector M12B 5P	Male straight connector M12B 5P	Male straight connector M12D 4P
5312A.F05.00	**5312A.M05.00**	**5312B.F05.00**	**5312B.M05.00**	**5312D.M04.00**
 For Bus ***CAN**open*®** and DeviceNet	 For Bus ***CAN**open*®** and DeviceNet	 For Bus ***PROFIBUS DP***	 For Bus ***PROFIBUS DP***	 For Bus Ether**CAT**®, EtherNet/IP, PROFINET IO RT/IRT, Powerlink and Modbus/TCP

Plugs

Plug M8	Plug M12
5300.T08	**5300.T12**
	

Lay-out Battery Configurations: See General Catalogue

3 - Air service units



Filter

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
 1	**17_ 01 _ . _ . _** **P** = Bowl protection **S** = Automatic exhaust **PS** = Bowl prot. and autom.exhaust **A** = 5μ **B** = 20μ (Filter pore size) **C** = 50μ **A** = G 1/8" (Connections) **B** = G 1/4" **0** = zinc alloy body **1** = technopolymer body	M4	cm³ 20	670 Nl/min (Δp 0,5 bar)	13 bar	-5°C - +50°C
 2	**17201 _ . _ .** Standard * **S** = Automatic exhaust **A** = 5μ **B** = 20μ (Filter pore size) **C** = 50μ **A** = G 1/4" **B** = G 3/8" (Connections)	M5	cm³ 30	1420 Nl/min (Δp 0,5 bar)		
 3	**17301 _ . _ .** Standard * **S** = Automatic exhaust **A** = 5μ **B** = 20μ (Filter pore size) **C** = 50μ **A** = G 3/8" **B** = G 1/2" (Connections)	M6	cm³ 48	1600 Nl/min (Δp 0,5 bar)		
 3 G 3/4"	**17301E . _ .** Standard * **S** = Automatic exhaust **A** = 5μ **B** = 20μ (Filter pore size) **C** = 50μ	M6	cm³ 42	2500 Nl/min		
 4	**17401B . _ .** Standard * **S** = Automatic exhaust **A** = 5μ **B** = 20μ (Filter pore size) **C** = 50μ	M8	cm³ 160	8000 Nl/min (Δp 0,5 bar)		

Dynamic drier

 4	**1740EB . _ .** Standard * **S** = Automatic exhaust **A** = 5μ **B** = 20μ (Filter pore size) **C** = 50μ	M8	cm³ 160	2500 Nl/min		

* : no additional letter required

	Size	Ordering code	Wall fixing screws	Max blow capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Coalescing filter 	1	**17_ 08 _ . _ .** **0** = zinc alloy body **1** = technopolymer body **A** = G 1/8" (Connections) **B** = G 1/4" **E** = 99,97% (Filter efficiency) **P** = Bowl protection **S** = Automatic exhaust **PS** = Bowl prot. and autom. exhaust	M4	cm³ 17	190 Nl/min (Δp 0,1 bar)	13 bar	-5°C - +50°C
	2	**17208 _ . _ .** **A** = G 1/4" **B** = G 3/8" (Connections) **E** = 99,97% (Filter efficiency) Standard * **S** = Automatic exhaust	M5	cm³ 28	500 Nl/min (Δp 0,1 bar)		
	3	**17308 _ . _ .** **A** = G 3/8" **B** = G 1/2" (Connections) **E** = 99,97% (Filter efficiency) Standard * **S** = Automatic exhaust	M6	cm³ 42	800 Nl/min (Δp 0,2 bar)		
	3 G 3/4"	**17308E . _ .** **E** = 99,97% (Filter efficiency) Standard * **S** = Automatic exhaust	M6	cm³ 42	800 Nl/min (Δp 0,2 bar)		
	4	**17408B . _ .** **E** = 99,97% (Filter efficiency) Standard * **S** = Automatic exhaust	M8	cm³ 160	2500 Nl/min (Δp 0,2 bar)		
Panel mounting pressure regulator 	1	**17109 _ . _ . _ .** **A** = G 1/8" (Connections) **B** = G 1/4" **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **L** = Without relieving **SM** = Improved relieving **SR** = Quick exhaust **SRM** = Improved relieving and quick exhaust **SMF** = Improved relieving with controlled relief Standard * **K** = Lockable version	/	/	730 Nl/min	13 bar	-5°C - +50°C
Including manometer 	1	**17129 _ .** **A** = G 1/8" **B** = G 1/4" (Connections) **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range)					

* : no additional letter required

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Modular pressure regulator						
 1	**17_02 _ . _ . _ . _** Standard * **K** = Lockable version **L** = Without Relieving **SM** = Improved relieving **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **A** = G 1/8" **B** = G 1/4" (Connections) **0** = Zinc alloy body **1** = Technopolymer body	M4	/	750 Nl/min	13 bar	-5°C - +50°C
 2	**17202 _ . _ . _ . _** Standard * **K** = Lockable version **L** = Without Relieving **SM** = Improved relieving **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **A** = G 1/4" **B** = G 3/8" (Connections)	M5	/	2250 Nl/min		
 3	**17302 _ . _ . _ . _** Standard * **K** = Lockable version **L** = Without Relieving **SM** = Improved relieving **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **A** = G 3/8" **B** = G 1/2" (Connections)	M6	/	3100 Nl/min		
 3 G 3/4"	**17302E . _ . _ . _** Standard * **K** = Lockable version **L** = Without Relieving **SM** = Improved relieving **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range)	M6	/	3100 Nl/min		
 4 G1"	**17402NB . _ . _** Standard * **K** = Lockable version **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range)	M8	/	7500 Nl/min (Δp 0,5 bar)		
Piloted pressure regulator						
 2	**17202 _ . P . _** Standard version * **L** = Without relieving **A** = G 1/4" **B** = G 3/8"	M5	/	/	13 bar	-5°C - +50°C
 3	**17302 _ . P . _** Standard version * **L** = Without relieving **A** = G 3/8" **B** = G 1/2"	M5	/	/		
 4	**17402NB.P**	M5	/	/		

* : no additional letter required

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Pressure regulator with manometer included in the band knob 1 	**17_22 _ . _** **A** = 0 - 2 bar **B** = 0 - 4 bar (Pressure range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = G 1/8" **B** = G 1/4" (Connections) **0** = Zinc alloy body Version **1** = Tecnopolymer body Version	M4	/	750 Nl/min	13 bar	-5°C - +50°C
2 	**17222 _ . _** **A** = 0 - 2 bar **B** = 0 - 4 bar (Pressure range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = G 1/4" **B** = G 3/8" (Connections)	M5	/	2250 Nl/min		
3 	**17322 _ . _** **A** = 0 - 2 bar **B** = 0 - 4 bar (Pressure range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = G 3/8" **B** = G 1/2" (Connections)	M6	/	3100Nl/min		
Manifold pressure standard regulators 	**170B2 _ . _ . _** Standard * **K** = Lockable version **A** = 0 - 2 bar **B** = 0 - 4 bar (Pressure range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = G 1/8" **B** = G 1/4" (Connections)	M4	/	700 Nl/min	13 bar	-5°C - +50°C
 	**17BB2 _ . _ . _ . _ . _ . _ . _** Connections: **A** = G 1/8" **B** = G 1/4" Pressure range **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar Positions N.: 2 = 2 regulators 3 = 3 regulators 4 = 4 regulators 5 = 5 regulators 6 = 6 regulators Position 2 Position 3 Position 4 Position 5 Position 6 Standard * **K** = Lockable version	M4	/	700 Nl/min		

* : no additional letter required

Size	Ordering code	Wall fixing screws	Max oil capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Manifold pressure regulators c/w manometer	**170M2 _ .** **A** = 0 - 2 bar **B** = 0 - 4 bar (Pressure range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = G 1/8" (Connections) **B** = G 1/4"	M4	/	700 Nl/min	13 bar	-5°C - +50°C
	**17BM2 _ . _ . _ . _ . _ . _ .** Connections: **A** = G 1/8" **B** = G 1/4" Pressure range **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar Positions N.: 2 = 2 regulators 3 = 3 regulators 4 = 4 regulators 5 = 5 regulators 6 = 6 regulators Position 2 Position 3 Position 4 Position 5 Position 6	M4	/	700 Nl/min		
Lubricator	**17_03 _ .** **P** = Bowl protection **A** = G 1/8" (Connections) **B** = G 1/4" **0** = Zinc alloy body **1** = Technopolymer body	M4	cm³ 32	2300 Nl/min	/	
 1	**17203 _ .** **MA** = Minimum oil level indicated N.O. with plug connector. **MC** = Minimum oil level indicator N.C. with plug connector **A** = G 1/4" **B** = G 3/8" (Connections)	M5	cm³ 50	2280 Nl/min	13 bar	-5°C - +50°C
 2	**17303 _ .** **MA** = Minimum oil level indicated N.O. with plug connector. **MC** = Minimum oil level indicator N.C. with plug connector **A** = G 3/8" **B** = G 1/2" (Connections)	M6	cm³ 80	5400 Nl/min		
 3	**17303E .** **MA** = Minimum oil level indicated N.O. with plug connector. **MC** = Minimum oil level indicator N.C. with plug connector	M6	cm³ 80	5400 Nl/min		
 3 G 3/4"	**17403B.** **MA** = Minimum oil level indicated N.O. with plug connector. **MC** = Minimum oil level indicator N.C. with plug connector	M8	cm³ 300	8000 Nl/min (Δp 0,5 bar)		
 4 G1"						

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Filter pressure regulator						
 1	**17 04** . . . . . Standard * **K** = Lockable version **P** = Bowl protection **S** = Automatic exhaust **PS** = Bowl prot. and autom. exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **A** = 5µ **B** = 20µ **C** = 50µ (Filter efficiency) **A** = G 1/8" **B** = G 1/4" (Connections) **0** = Zinc alloy body **1** = Technopolymer body	M4	cm³ 17	750 Nl/min	13 bar	-5°C - +50°C
 2	**17204** . . . . . Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **A** = 5µ **B** = 20µ **C** = 50µ (Filter efficiency) **A** = G 1/4" **B** = G 3/8" (Connections)	M5	cm³ 28	2000 Nl/min		
 3	**17304** . . . . . Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **A** = 5µ **B** = 20µ **C** = 50µ (Filter efficiency) **A** = G 3/8" **B** = G 1/2" (Connections)	M6	cm³ 42	3150 Nl/min		
 3 G 3/4"	**17304E** . . . . . Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar **C** = 0 - 8 bar **D** = 0 - 12 bar (Adjusting range) **A** = 5µ **B** = 20µ **C** = 50µ (Filter efficiency)	M6	cm³ 42	3150 Nl/min		

* : no additional letter required

	Size	Ordering code	Wall fixing screws	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Progressive start-up valve 	1	**17110.M2** Progressive start-up valve with electric piloting control, complete with mechanic for M2 microsolenoid valve. **17120** Progress. start-up valve with pneumatic piloting control.	M4	1000 Nl/min	10 bar	-5°C - +50°C
	2	**17210.M2** Progressive start-up valve with electric piloting control, complete with mechanic for M2 microsolenoid valve. **17220** Progres. start-up valve with pneumatic piloting control.	M5	1700 Nl/min		
	3	**17310.M2** Progressive start-up valve with electric piloting control, complete with mechanic for M2 microsolenoid valve. **17320** Progress. start-up valve with pneumatic piloting control.	M6	2500 Nl/min		
	4	**17410.M2** Progressive start-up valve with electric piloting control, complete with mechanic for M2 microsolenoid valve **17420** Progress. start-up valve with pneumatic piloting control.	M8	8000 Nl/min		
Shut-off valve 	1	**17_ 30 . _** **A** = Not lockable handle **B** = Lockable handle **0** = Zinc alloy body **1** = Technopolymer body	M4	1000 Nl/min	13 bar	-5°C - +50°C
		**17_ 30 . _** **M2** = Electric with M2 **M2/9** = Electric with M2/9 **0** = Zinc alloy body **1** = Technopolymer body				
		**17_ 30 . PN** **0** = Zinc alloy body **1** = Technopolymer body				

Size	Ordering code	Wall fixing screws	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
 2	**172 30 .** ⌐ **A** = Not lockable handle **B** = Lockable handle				
	**172 30 .** ⌐ **M2** = Electric with M2 **M2**/9 = Electric with M2/9	M5	2100 Nl/min		
	**172 30 . PN**				
 3	**173 30 .** ⌐ **A** = Not lockable handle **B** = Lockable handle			13 bar	-5°C - +50°C
	**173 30 .** ⌐ **M2** = Electric with M2 **M2**/9 = Electric with M2/9	M6	3200 Nl/min		
	**173 30 . PN**				
 4	**17430.** ⌐ **A** = Not lockable handle **B** = Lockable handle	M8	8000 Nl/min		

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Filter pressure regulator + Lubricator 1 	**17_06** _ . _ . _ . _ Standard * **K** = Lockable version **P** = Bowl protection **S** = Automatic exhaust **PS** = Bowl prot. and autom. exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ **A** = G 1/8" (Connections) **B** = G 1/4" **0** = Zinc alloy body **1** = Technopolymer body	M4	cm³ 17	550 Nl/min	13 bar	-5°C - +50°C
2 	**17206** _ . _ . _ . _ Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ **A** = G 1/4" (Connections) **B** = G 3/8"	M5	cm³ 28	1200 Nl/min		
3 	**17306** _ . _ . _ . _ Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ **A** = G 3/8" (Connections) **B** = G 1/2"	M6	cm³ 42	2400 Nl/min		
3 G 3/4" 	**17306E** . _ . _ . _ . Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ	M6	cm³ 42	2400 Nl/min		

* : no additional letter required

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, Δp=1	Max. pressure	Temperature
Filter+Pressure regulator + Lubricator 1 	**17_07** _ . _ . _ _ . _ Standard * **K** = Lockable version **P** = Bowl protection **S** = Automatic exhaust **PS** = Bowl prot. and autom. exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ **A** = G 1/8" **B** = G 1/4" (Connections) **0** = Zinc alloy body **1** = Technopolymer body	M4	cm³ 17	500 Nl/min	13 bar	-5°C - +50°C
2 	**17207** _ . _ . _ _ . _ Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ **A** = G 1/4" **B** = G 3/8" (Connections)	M5	cm³ 28	1000 Nl/min		
3 	**17307** _ . _ . _ _ . _ Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ **A** = G 3/8" **B** = G 1/2" (Connections)	M6	cm³ 42	2100 Nl/min		
3 G 3/4" 	**17307E** . _ . _ . _ . _ Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ	M6	cm³ 42	2400 Nl/min		
4 G1" 	**17407NB** . _ . _ . _ . _ Standard * **K** = Lockable version Standard * **S** = Automatic exhaust **A** = 0 - 2 bar **B** = 0 - 4 bar (Adjusting range) **C** = 0 - 8 bar **D** = 0 - 12 bar **A** = 5μ **B** = 20μ (Filter efficiency) **C** = 50μ	M8	cm³ 160	7500 Nl/min (Δp 0,5 bar)		

* : no additional letter required

	Size	Ordering code	Adjusting range	Microswitch capacity	Max. pressure	Temperature
High sensitive air pressure regulator with high flow rate relieving 	1	**171S2B.** _ . _ . _ Pressure range **0002**= 0,1 - 2 bar **0004** = 0,1 - 4 bar **0007** = 0,1 - 7 bar **0010** = 0,1 - 10 bar = Standard * **E** = External feedback = Standard * **K** = Lockable version * : no additional letter required	/	/	10 bar	-5°C - +50°C
	3	**173S2B.** _ . _ . _ Pressure range **0002**= 0,1 - 2 bar **0004** = 0,1 - 4 bar **0007** = 0,1 - 7 bar **0010** = 0,1 - 10 bar = Standard * **E** = External feedback = Standard * **K** = Lockable version * : no additional letter required	/	/		
Pressure switch 	1	**17** _ **14A** = Pressure switch adapter **14B** = Pressure switch **14C** = Pressure switch complete with adapter	2-10 bar	1 A	13 bar	-5°C - +50°C
	2	**17** _ **24A** = Pressure switch adapter **14B** = Pressure switch **24C** = Pressure switch complete with adapter				
	3	**17** _ **34A** = Pressure switch adapter **14B** = Pressure switch **34C** = Pressure switch complete with adapter				
	4	**17** _ **44A** = Pressure switch adapter **14B** = Pressure switch **44C** = Pressure switch complete with adapter				

	Size	
Air intake 	1	**17140**
	2	**17240**
	3	**17340**
	4	**17440**
Air intake "H" profile 	1	**17140H**
	2	**17240H**
	3	**17340H**
Fixing brackets 	1	**17050** **17150**
	2	**17250**
	3	**17350**
Fixing bracket 	1	**170M5**

	Size	
Assembling kits  	1	**170M6** (for manifold regulators) **17160** (standard) **17165** (for start up valve)
	2	**17260** (standard) **17265** (for start up valve)
	3	**17360** (standard) **17365** (for start up valve)
	4	**17460** (standard) **17465** (for start up valve)
Unidirectional air intake	2	**17240.U**
	3	**17340.U**
Flange G 3/4" 	3	**17381E** (Inlet flange) **17382E** (Outlet flange)
Pressure gauges 		**17070M.** _ **A** = Scale 0 - 4 bar **B** = Scale 0 - 6 bar **C** = Scale 0 - 12 bar
		**17070** _ . _ **A** = Dial Ø40 **B** = Dial Ø50 **A** = Scale 0 - 4 bar **B** = Scale 0 - 6 bar **C** = Scale 0 - 12 bar

	Size	Ordering code
Filter (F)		
	2	**S_172_F** _ _ _ _ Version **S** = Standard surface finishing **F** = Clean profile Connections **A** = 1/4 NPT **B** = 3/8 NPT **C** = G1/4” Filter pore size **A** = 5 μm - 316 stainless steel **B** = 20 μm - 316 stainless steel **C** = 50 μm - 316 stainless steel **D** = 5 μm - HDPE **E** = 20 μm - HDPE **F** = 50 μm - HDPE Options = Standard* **L**= Low temperature **Z** = Low temperature (-60 °C) **H**= High temperature **S**= Automatic exhaust **EF**= EPDM-FDA Enclosure opions = Standard* **G**= pressure gauge connection * no additional letter required
	3	**S_173_F** _ _ _ _ Version **S** = Standard surface finishing **F** = Clean profile Connections **A** = 1/4 NPT **B** = 1/2 NPT **C** = G1/2” Filter pore size **A** = 5 μm - 316 stainless steel **B** = 20 μm - 316 stainless steel **C** = 50 μm - 316 stainless steel **D** = 5 μm - HDPE **E** = 20 μm - HDPE **F** = 50 μm - HDPE Options = Standard* **L**= Low temperature **Z** = Low temperature (-60 °C) **H**= High temperature **S**= Automatic exhaust **EF**= EPDM-FDA Enclosure opions = Standard* **G**= pressure gauge connection * no additional letter required
	4	**S_174_F** _ _ _ _ Version **S** = Standard surface finishing **F** = Clean profile Connections **A** = 3/4 NPT **B** = 1 NPT **C** = G1” Filter pore size **A** = 5 μm - 316 stainless steel **B** = 20 μm - 316 stainless steel **C** = 50 μm - 316 stainless steel **D** = 5 μm - HDPE **E** = 20 μm - HDPE **F** = 50 μm - HDPE Options = Standard* **L**= Low temperature **Z** = Low temperature (-60 °C) **H**= High temperature **S**= Automatic exhaust **EF**= EPDM-FDA Enclosure opions = Standard* **G**= pressure gauge connection * no additional letter required
Regulator (R)		
	2	**S_172_R** _ _ _ _ Version **S** = Standard surface finishing **F** = Clean profile Connections **A** = 1/4 NPT **B** = 3/8 NPT **C** = G1/4” Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Type = Standard* N= Without relieving **EF**= EPDM-FDA Options = Standard* L= Low temperature Z = Low temperature (-60 °C) H= High temperature EF= EPDM-FDA * no additional letter required
	3	**S_173_R** _ _ _ _ Version **S** = Standard surface finishing **F** = Clean profile Connections **A** = 1/4 NPT **B** = 1/2 NPT **C** = G1/2” Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Type = Standard* N= Without relieving **EF**= EPDM-FDA Options = Standard* L= Low temperature Z = Low temperature (-60 °C) H= High temperature EF= EPDM-FDA * no additional letter required
	4	**S_174_R** _ _ _ _ Version **S** = Standard surface finishing **F** = Clean profile Connections **A** = 3/4 NPT **B** = 1 NPT **C** = G1” Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Type = Standard* N= Without relieving **EF**= EPDM-FDA Options = Standard* L= Low temperature Z = Low temperature (-60 °C) H= High temperature EF= EPDM-FDA * no additional letter required

Size	Ordering code

Filter regulator (E)

2

S_172_E _ _ _ _ _

- Version: **S** = Standard surface finishing; **F** = Clean profile
- Connections: **A** = 1/4 NPT; **B** = 3/8 NPT; **C** = G1/4”
- Filter pore size: **A** = 5 µm - 316 stainless steel; **B** = 20 µm - 316 stainless steel; **C** = 50 µm - 316 stainless steel; **D** = 5 µm - HDPE; **E** = 20 µm - HDPE; **F** = 50 µm - HDPE
- Adjusting range: **A** = 0-2 bar; **B** = 0-4 bar; **C** = 0-8 bar; **D** = 0-12 bar
- Type: = Standard*; **N**= Without relieving
- Options: = Standard*; **L**= Low temperature; **Z** = Low temperature (-60 °C); **H**= High temperature; **S**= Automatic drain; **EF**= EPDM-FDA

* no additional letter required

3

S_173_E _ _ _ _ _

- Version: **S** = Standard surface finishing; **F** = Clean profile
- Connections: **A** = 1/4 NPT; **B** = 1/2 NPT; **C** = G1/2”
- Filter pore size: **A** = 5 µm - 316 stainless steel; **B** = 20 µm - 316 stainless steel; **C** = 50 µm - 316 stainless steel; **D** = 5 µm - HDPE; **E** = 20 µm - HDPE; **F** = 50 µm - HDPE
- Adjusting range: **A** = 0-2 bar; **B** = 0-4 bar; **C** = 0-8 bar; **D** = 0-12 bar
- Type: = Standard*; **N**= Without relieving
- Options: = Standard*; **L**= Low temperature; **Z** = Low temperature (-60 °C); **H**= High temperature; **S**= Automatic drain; **EF**= EPDM-FDA

* no additional letter required

4

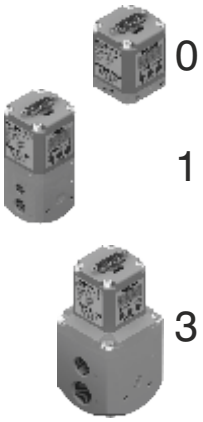
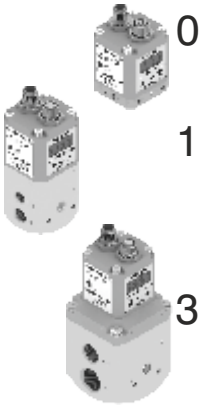
S_174_E _ _ _ _ _

- Version: **S** = Standard surface finishing; **F** = Clean profile
- Connections: **A** = 3/4 NPT; **B** = 1 NPT; **C** = G1”
- Filter pore size: **A** = 5 µm - 316 stainless steel; **B** = 20 µm - 316 stainless steel; **C** = 50 µm - 316 stainless steel; **D** = 5 µm - HDPE; **E** = 20 µm - HDPE; **F** = 50 µm - HDPE
- Adjusting range: **A** = 0-2 bar; **B** = 0-4 bar; **C** = 0-7 bar; **D** = 0-10 bar
- Type: = Standard*; **N**= Without relieving
- Options: = Standard*; **L**= Low temperature; **Z** = Low temperature (-60 °C); **H**= High temperature; **S**= Automatic drain; **EF**= EPDM-FDA

* no additional letter required

	Size	Ordering code
Fixing bracket	2	**SS17250**
	3	**SS17350**
	4	**SS17450**
Manometer		**SS17070A**
		**A** = Scale 0 - 4 bar **B** = Scale 0 - 12 bar

Size	Ordering code	Temperature
Electronic proportional pressure regulator  0  1  3	**17 _ E2N. _ . D . ___ .** Variant : = Standard version (no additional letter required) **E** = External pressure feed back **A** = Exhaust downstream circuit without power supply **AE** = A Variant + E Variant Size : **0** = Size 0 **1** = Size 1 **3** = Size 3 Pressure range: **0001** = Range 0 - 1 bar **0005** = Range 0 - 5 bar **0009** = Range 0 - 9 bar Type : **C** = Current signal (4-20 mA / 0-20 mA) **T** = Voltage signal (0-10 V / 0-5 V / 1-5 V) **Size 0** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 7 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 Nl/min **Size 1** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 Nl/min **Size 3** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 Nl/min	
Electronic proportional regulators with M12 connector ECONOMIC version  0  1  3	**17 _ E2N. _ . M . ___ .** Variant : = Standard version (no additional letter required) **E** = External pressure feed back **A** = Exhaust downstream circuit without power supply **AE** = A Variant + E Variant Size : **0** = Size 0 **1** = Size 1 **3** = Size 3 Pressure range: **0001** = Range 0 - 1 bar **0005** = Range 0 - 5 bar **0009** = Range 0 - 9 bar Type : **C** = Current signal (4-20 mA) **T** = Voltage signal (0-10 V) **Size 0** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 7 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 Nl/min **Size 1** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 Nl/min **Size 3** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 Nl/min	-5°C - +50°C
Electronic proportional regulators with M12 connector ECONOMIC Standard version  0  1  3	**17 _ E2N. _ . _ . ___ .** Variant : = Standard version (no additional letter required) **E** = External pressure feed back **A** = Exhaust downstream circuit without power supply **AE** = A Variant + E Variant Size : **0** = Size 0 **1** = Size 1 **3** = Size 3 Diagnostic signal: **F** = Voltage analog output **G** = Current analog output **H** = Digital output Pressure range: **0001** = Range 0 - 1 bar **0005** = Range 0 - 5 bar **0009** = Range 0 - 9 bar Type : **C** = Current signal (4-20 mA) **T** = Voltage signal (0-10 V) **Size 0** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 7 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 Nl/min **Size 1** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 Nl/min **Size 3** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 Nl/min	

Size	Ordering code	Temperature
Electronic proportional regulators with CANopen protocol  0 1 3	**17 _ E2N. S . C . ___ . _** Size : **0** = Size 0 **1** = Size 1 **3** = Size 3 Variant : = Standard version (no additional letter required) **E** = External pressure feed back **A** = Exhaust downstream circuit without power supply **AE** = A Variant + E Variant Pressure range: **0001** = Range 0 - 1 bar **0005** = Range 0 - 5 bar **0009** = Range 0 - 9 bar **Size 0** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 7 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 Nl/min **Size 1** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 Nl/min **Size 3** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 Nl/min	-5°C - +50°C
Electronic proportional regulators with CANopen protocol M12 connector  0 1 3	**17 _ E2N. M . C . ___ . _** Size : **0** = Size 0 **1** = Size 1 **3** = Size 3 Variant : = Standard version (no additional letter required) **E** = External pressure feed back **A** = Exhaust downstream circuit without power supply **AE** = A Variant + E Variant Pressure range: **0001** = Range 0 - 1 bar **0005** = Range 0 - 5 bar **0009** = Range 0 - 9 bar **Note:** This model doesn't include the terminating resistor **Size 0** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 7 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 Nl/min **Size 1** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 Nl/min **Size 3** - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 Nl/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 Nl/min	

Accessories

POWER SUPPLY connector

Female straight connector M12A 4P
5312A.F04.00


NETWORK connector

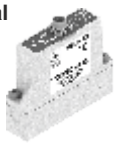
Male straight connector M12A 5P
5312A.M05.00


Fixing bracket
170M5


Electric connectors	Description	Code
	Straight connector + Casing IP65	5300.F15.00.00
	Straight connector + cable 3 metres	5300.F15.00.03
	Straight connector + cable 5 metres	5300.F15.00.05
	90° connector + Casing IP65	5300.F15.90.00
	90° connector + cable 3 metres	5300.F15.90.03
	90° connector + cable 5 metres	5300.F15.90.05

Ordering code

Proportional pressure regulator



170E._.M._.M._

Protection
0 = Parameter 18 active
2 = Parameter 18 not active

Version
T = Voltage signal
C = Current signal

Pressure range
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Proportional Pressure Regulator c/w M5 In-Line Single Base

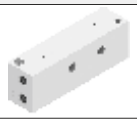
170E._.M._.M._.FO

Protection
0 = Parameter 18 active
2 = Parameter 18 not active

Version
T = Voltage signal
C = Current signal

Pressure range
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

M5 In-Line Single Base
170M1.FO



Proportional Pressure Regulator c/w M5 Bottom Entry Base

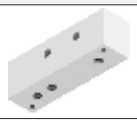
170E._.M._.M._.FV

Protection
0 = Parameter 18 active
2 = Parameter 18 not active

Version
T = Voltage signal
C = Current signal

Pressure range
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

M5 Bottom Entry Single Base
170M1.FV



Proportional Pressure Regulator c/w Modular In-Line Base

170E._.M._.M._.FP

Protection
0 = Parameter 18 active
2 = Parameter 18 not active

Version
T = Voltage signal
C = Current signal

Pressure range
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Single Modular In-Line Base
170M1.FP

Proportional Pressure Regulator c/w 4mm In-Line Single base

170E._.M._.M._.TO

Protection
0 = Parameter 18 active
2 = Parameter 18 not active

Version
T = Voltage signal
C = Current signal

Pressure range
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Single 4mm In-Line Base
170M1.TO

Proportional Pressure Regulator c/w 4mm Bottom Entry Single Base

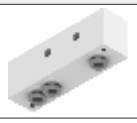
170E._.M._.M._.TV

Protection
0 = Parameter 18 active
2 = Parameter 18 not active

Version
T = Voltage signal
C = Current signal

Pressure range
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Single 4mm Bottom Entry Base
170M1.TV



Proportional Pressure Regulator c/w 4mm In-Line Modular Base

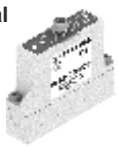
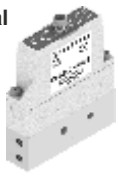
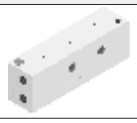
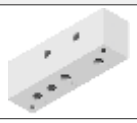
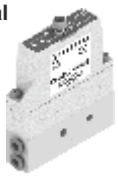
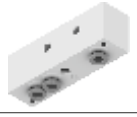
170E._.M._.M._.TP

Protection
0 = Parameter 18 active
2 = Parameter 18 not active

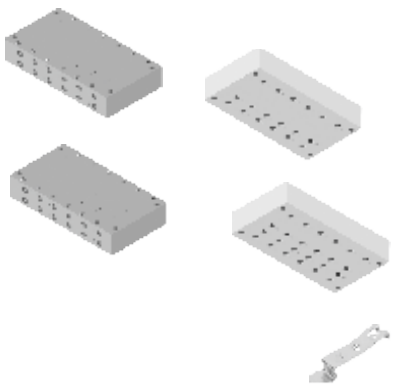
Version
T = Voltage signal
C = Current signal

Pressure range
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

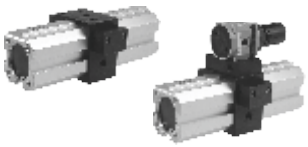
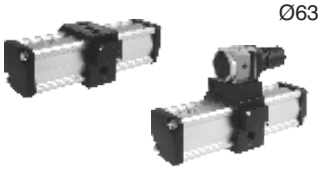
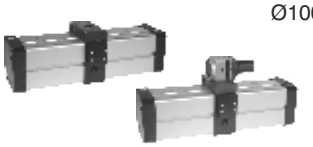
Single 4mm In-Line Modular Base
170M1.TP

	Ordering code
Proportional pressure regulator with external feedback 	**170E._.M._.M._.E** Protection **0** = Parameter 18 active **2** = Parameter 18 not active Version **T** = Voltage signal **C** = Current signal Pressure range **001** = Range 0 - 1 bar **005** = Range 0 - 5 bar **009** = Range 0 - 9 bar
Proportional Pressure Regulator c/w M5 In-Line Single Base with External Feedback 	**170E._.M._.M._.EFO** Protection **0** = Parameter 18 active **2** = Parameter 18 not active Version **T** = Voltage signal **C** = Current signal Pressure range **001** = Range 0 - 1 bar **005** = Range 0 - 5 bar **009** = Range 0 - 9 bar Single M5 In-Line Base with External Feedback **170M1.EFO** 
Proportional Pressure Regulator c/w M5 Bottom Entry Base with External Feedback 	**170E._.M._.M._.EFV** Protection **0** = Parameter 18 active **2** = Parameter 18 not active Version **T** = Voltage signal **C** = Current signal Pressure range **001** = Range 0 - 1 bar **005** = Range 0 - 5 bar **009** = Range 0 - 9 bar Single M5 Bottom Entry Base with External Feedback **170M1.EFV** 
Proportional Pressure Regulator c/w 4mm In-Line Single Base with External Feedback 	**170E._.M._.M._.ETO** Protection **0** = Parameter 18 active **2** = Parameter 18 not active Version **T** = Voltage signal **C** = Current signal Pressure range **001** = Range 0 - 1 bar **005** = Range 0 - 5 bar **009** = Range 0 - 9 bar Single 4mm In-Line Base with External Feedback **170M1.ETO** 
Proportional Pressure Regulator c/w 4mm Bottom Entry Single Base with External Feedback 	**170E._.M._.M._.ETV** Protection **0** = Parameter 18 active **2** = Parameter 18 not active Version **T** = Voltage signal **C** = Current signal Pressure range **001** = Range 0 - 1 bar **005** = Range 0 - 5 bar **009** = Range 0 - 9 bar Single 4mm Bottom Entry Base with External Feedback **170M1.ETV** 

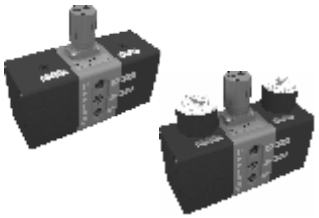
Accessoires



Description	Code	
Multiple M5 In-Line Base	170M(N).FO	(N) = N. PLACES 2=2 places 3=3 places 4=4 places 5=5 places 6=6 places 7=7 places 8=8 places 9=9 places 10=10 places
Multiple M5 Bottom Entry Base	170M(N).FV	
Multiple M5 In-Line Base with External Feedback	170M(N).EFO	
Multiple M5 Bottom Entry Base with External Feedback	170M(N).EFV	
Clip	800.00	

	Size	Ordering code	Pressure range	Temperature
Pressure boosters 	Ø40	**1740 .** **50.N** = without pressure regulator **50.NR** = with pressure regulator	2-10 bar	-5°C - +50°C
	Ø63	**1763 .** **80.N** = without pressure regulator **80.NR** = with pressure regulator	2-8 bar	-5°C - +50°C
	Ø100	**17100 .** **125.N** = without pressure regulator **125.NR** = with pressure regulator	2-8 bar	-5°C - +50°C
Base complete with regulator 		**17 _ . BR** **40** = Fixing plate for pressure booster Ø40 **63** = Fixing plate for pressure booster Ø63 **100** = Mount directly the pressure reducer Code 17302B.C	13 bar	-5°C - +50°C
Fixing plate for pressure booster 		**17 _ . 02** **40** = Fixing plate for pressure booster Ø40 **63** = Fixing plate for pressure booster Ø63 **100** = Use short foot bracket code 1320.50.05/1F	/	/

REGULATORS & PRESSURE BOOSTERS
(series P+, chapter 3)

	Size	Ordering code	Pressure range	Temperature
Pressure boosters P+ 	Ø40	**MDPT40.2R.** = Standard without manometer A = Manometer P1 0-12 bar Manometer P2 0-20 bar B = Manometer P1 0-12 bar Manometer P2 0-16 bar C = Manometer P1 0-12 bar Manometer P2 0-12 bar	2,5-10 bar	-5°C - +50°C
Bracket 		**T1740.01**	/	/
Manometer D.40 		**17070A.** **A** = 0-4 bar **B** = 0-6 bar **C** = 0-12 bar **D** = 0-16 bar **E** = 0-20 bar	/	/

Filter (F)

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
1 	**171 _ F** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (no additional letter required) **S** = Automatic drain **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - 50°C
2 	**172 _ F** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (no additional letter required) **S** = Automatic drain **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
3 	**173 _ F** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (no additional letter required) **S** = Automatic drain **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
4 	**N174BF** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (no additional letter required) **S** = Automatic drain **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm		cm³ 90		

Coalescing filter (D)

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
1 	**171 _ D** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (pas de lettre additionnelle nécessaire) **S** = Automatic drain **A** = 99,97% (Filter efficiency) Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C-+50°C
2 	**172 _ D** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (no additional letter required) **S** = Automatic drain **A** = 99,97% (Filter efficiency) Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
3 	**173 _ D** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (no additional letter required) **S** = Automatic drain **A** = 99,97% (Filter efficiency) Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
4 	**N174BD** _ _ _ Standard (no additional letter required) **N** = Nylon bowl Standard (no additional letter required) **S** = Automatic drain **A** = 5 μm **B** = 20 μm (Filter efficiency) **C** = 50 μm		cm³ 90		

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Oil removal filter (DB), (DAV) and High efficiency oil removal filter (DC)					
 3	**173 _ DBV _** Standard (no additional letter required) **N** = Nylon bowl Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 30	13 bar	-5°C - +50°C
 3	**173 _ DCV _** Standard (no additional letter required) **N** = Nylon bowl Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread				
 4	**N174BDAV _** Standard (no additional letter required) **N** = Nylon bowl		/		
Carbon filter (DD)					
 3	**173 _ DD _** Standard (no additional letter required) **N** = Nylon bowl Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 30		
 4	**N174BDD _** Standard (no additional letter required) **N** = Nylon bowl	Vertical	cm³ 90	13 bar	-5°C - +50°C

Regulator (R)

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
1 	**171 _ R** _ _ _ _ Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Indifferent	/	13 bar	-5°C - +50°C
2 	**172 _ R** _ _ _ _ Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
3 	**173 _ R** _ _ _ _ Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
4 	**N174BR** _ _ _ Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar		/		

Regulator including gauge (RM)(RW)

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
1	**171 _ R *** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Indifferent	/	13 bar	-5°C - +50°C
2	**172 _ R *** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
3	**173 _ R *** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
4	**N174BR *** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar		/		

* Flow direction :
M = from left to right
W = from right to left

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Modular pressure regulator (B)  1	**171 _ B** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Indifferent	/	13 bar	-5°C - +50°C
Modular pressure regulator including manometer (M)  1	**171 _ M** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **F** = Controlled refiel + improved relieving **L** = no relieving **R** = Improved relieving Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
Manifold pressure regulator   1	**G _ 171** N.regulators: 2 = 2 regulators 3 = 3 regulators 4 = 4 regulators 5 = 5 regulators 6 = 6 regulators Type **B** = Standard with flanges X **M** = Manometer included with flanges X **W** = Standard with flanges Y **Z** = Manometer included with flanges Y Connections: **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Adjusting range ** position 1 Adjusting range ** positions 2 Adjusting range ** positions 3 Adjusting range ** positions 4 Adjusting range ** positions 5 Adjusting range ** positions 6 Version **N** = Metal inserts **T** = Technopolymer thread		/		

** Adjusting range : **A** = 0 - 2 bar - **B** = 0 - 4 bar - **C** = 0 - 8 bar - **D** = 0 - 12 bar

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Filter regulator (E)					
 1	**171 E** _ _ _ _ * Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - +50°C
 2	**172 E** _ _ _ _ * Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
 3	**173 E** _ _ _ _ * Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**N174BE** _ _ _ _ * Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 µm **B** = 20 µm (Filter pore size) **C** = 50 µm		cm³ 90		

* Bowl options :
= Standard (no additional letter required)
N = Nylon bowl

Filter regulator including gauge (EM)(EW)

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
 1	**171 E * * *** ***** Flow direction: **M** = from left to right, **W** = from right to left ***** Bowl options: = Standard (no additional letter required), **N** = Nylon bowl ***** = Standard (no additional letter required), **K** = Lockable version ***** = Standard (no additional letter required), **S** = Automatic drain Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar **A** = 5 µm, **B** = 20 µm, **C** = 50 µm (Filter pore size) Connections: **A** = G 1/8" (only for "N" version), **B** = G 1/4", **C** = G 1/4" NPT (only for "N" version) Version: **N** = Metal inserts, **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - +50°C
 2	**172 E * * *** ***** Flow direction: **M** = from left to right, **W** = from right to left ***** Bowl options: = Standard (no additional letter required), **N** = Nylon bowl ***** = Standard (no additional letter required), **K** = Lockable version ***** = Standard (no additional letter required), **S** = Automatic drain Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar **A** = 5 µm, **B** = 20 µm, **C** = 50 µm (Filter pore size) Connections: **A** = G 1/4" (only for "N" version), **B** = G 3/8", **C** = G 3/8" NPT (only for "N" version) Version: **N** = Metal inserts, **T** = Technopolymer thread		cm³ 34		
 3	**173 E * * *** ***** Flow direction: **M** = from left to right, **W** = from right to left ***** Bowl options: = Standard (no additional letter required), **N** = Nylon bowl ***** = Standard (no additional letter required), **K** = Lockable version ***** = Standard (no additional letter required), **S** = Automatic drain Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar **A** = 5 µm, **B** = 20 µm, **C** = 50 µm (Filter pore size) Connections: **A** = G 3/8" (only for "N" version), **B** = G 1/2", **C** = G 1/2" NPT (only for "N" version) Version: **N** = Metal inserts, **T** = Technopolymer thread		cm³ 68		
 4	**N174BE * * *** ***** Flow direction: **M** = from left to right, **W** = from right to left ***** Bowl options: = Standard (no additional letter required), **N** = Nylon bowl ***** = Standard (no additional letter required), **K** = Lockable version ***** = Standard (no additional letter required), **S** = Automatic drain Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar **A** = 5 µm, **B** = 20 µm, **C** = 50 µm (Filter pore size)		cm³ 90		

Regulator with pressure switch (RP)(RZ)

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
1 	**171 R * **** (Version: **N** = Metal inserts, **T** = Technopolymer thread; Connections: **A** = G 1/8" (only for "N" version), **B** = G 1/4", **C** = G 1/4" NPT (only for "N" version); Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar; * **F** = Controlled refiel + improved relieving, **L** = no relieving, **R** = Improved relieving; ** Standard (no additional letter required), **K** = Lockable version)	Indifferent	/	13 bar	-5°C - +50°C
2 	**172 R * **** (Version: **N** = Metal inserts, **T** = Technopolymer thread; Connections: **A** = G 1/4" (only for "N" version), **B** = G 3/8", **C** = G 3/8" NPT (only for "N" version); Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar; * **F** = Controlled refiel + improved relieving, **L** = no relieving, **R** = Improved relieving; ** Standard (no additional letter required), **K** = Lockable version)		/		
3 	**173 R * **** (Version: **N** = Metal inserts, **T** = Technopolymer thread; Connections: **A** = G 3/8" (only for "N" version), **B** = G 1/2", **C** = G 1/2" NPT (only for "N" version); Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar; * **F** = Controlled refiel + improved relieving, **L** = no relieving, **R** = Improved relieving; ** Standard (no additional letter required), **K** = Lockable version)		/		
4 	**N174BR * **** (Adjusting range: **A** = 0-2 bar, **B** = 0-4 bar, **C** = 0-8 bar, **D** = 0-12 bar; * **L** = no relieving, **R** = Improved relieving; ** Standard (no additional letter required), **K** = Lockable version)		/		

* Flow direction :
P = from left to right
Z = from right to left

** Pressure switch options :
A = Cable 150 mm + M8 PNP **C** = Cable 2 m. PNP
B = Cable 150 mm + M8 NPN **D** = Cable 2 m. NPN

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Filter regulator with pressure switch (EP)(EZ)					
 1	**171 E * ***** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 μm **B** = 20 μm (Filter pore size) **C** = 50 μm Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - +50°C
 2	**172 E * ***** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 μm **B** = 20 μm (Filter pore size) **C** = 50 μm Connections **A** = G1/4" (only for "N" version) **B** = G3/8" **C** = G3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
 3	**173 E * ***** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 μm **B** = 20 μm (Filter pore size) **C** = 50 μm Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**N174BE * ***** Standard (no additional letter required) **K** = Lockable version Standard (no additional letter required) **S** = Automatic drain Adjusting range **A** = 0-2 bar **B** = 0-4 bar **C** = 0-8 bar **D** = 0-12 bar **A** = 5 μm **B** = 20 μm (Filter pore size) **C** = 50 μm		cm³ 90		

* Flow direction :
P = from left to right
Z = from right to left

* Pressure switch options :
* **A** = Cable 150 mm + M8 PNP **C** = Cable 2 m. PNP
B = Cable 150 mm + M8 NPN **D** = Cable 2 m. NPN

* Bowl options :
* = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Lubricator (L)					
 1	**_171 _ L _** Standard (no additional letter required) **N** = Nylon bowl Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	/	13 bar	-5°C - +50°C
 2	**_172 _ L _** Standard (no additional letter required) **N** = Nylon bowl **A** = Min. Oil level indicator N.O. **C** = Min. Oil level indicator N.C. Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 3	**_173 _ L _** Standard (no additional letter required) **N** = Nylon bowl **A** = Min. Oil level indicator N.O. **C** = Min. Oil level indicator N.C. Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 4	**N174BL** Standard (no additional letter required) **N** = Nylon bowl **A** = Min. Oil level indicator N.O. **C** = Min. Oil level indicator N.C.		/		
Shut-off valve (VL)					
 1	**_171 _ VL** Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Indifferent	/	13 bar	-5°C - +50°C
 2	**_172 _ VL** Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 3	**_173 _ VL** Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 4	**N174BVL**		/		

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Pneumatic shut-off valve (VP)  1	**_171_VP** Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Indifferent	/	10 bar	-5°C - +50°C
 2	**_172_VP** Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 3	**_173_VP** Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 4	**N174BVP**		/		
Piloted pressure regulator (R)  4	**N174BRP**	Indifferent	/	13 bar	-5°C - +50°C
Piloted pressure regulator with integrated manometer (RM)(RW)  4	**N174BR_P** Flow direction **M** = from left to right **W** = from right to left	Indifferent	/	13 bar	-5°C - +50°C
Piloted pressure regulator with pressure switch (RP)(RZ)  4	**N174BR__P** Pressure switch option **A** = Cable 150 mm + M8 PNP **B** = Cable 150 mm + M8 NPN **C** = Cable 2 m. PNP **D** = Cable 2 m. NPN Flow direction **M** = from left to right **W** = from right to left	Indifferent	/	13 bar	-5°C - +50°C

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Electric shut-off valve (VE)					
 1	**171 _ VE _** Version **N** = Metal inserts **T** = Techno. thread 15 mm coil voltage **A4** = 12 VDC **A5** = 24 VDC **A6** = 24 VAC * **A7** = 110 VAC * **A8** = 230 VAC * **A9** = 24 VDC ** 22 mm coil voltage **B2** = Without coil M2 mechanic **B4** = 12 VDC **B5** = 24 VDC **B6** = 24 VAC * **B7** = 110 VAC * **B8** = 230 VAC * **B9** = 24 VDC *** 30 mm coil voltage **C5** = 24 VDC **C6** = 24 VAC * **C7** = 110 VAC * **C8** = 230 VAC * **C9** = 24 VDC *** Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) * (50 - 60 Hz) ** (1Watt) *** (2 Watt)	Indifferent	/	13 bar	-5°C - +50°C
 2	**172 _ VE _** Version **N** = Metal inserts **T** = Techno. thread 15 mm coil voltage **A4** = 12 VDC **A5** = 24 VDC **A6** = 24 VAC * **A7** = 110 VAC * **A8** = 230 VAC * **A9** = 24 VDC ** 22 mm coil voltage **B2** = Without coil M2 mechanic **B4** = 12 VDC **B5** = 24 VDC **B6** = 24 VAC * **B7** = 110 VAC * **B8** = 230 VAC * **B9** = 24 VDC *** 30 mm coil voltage **C5** = 24 VDC **C6** = 24 VAC * **C7** = 110 VAC * **C8** = 230 VAC * **C9** = 24 VDC *** Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) * (50 - 60 Hz) ** (1Watt) *** (2 Watt)		/		
 3	**173 _ VE _** Version **N** = Metal inserts **T** = Techno. thread 15 mm coil voltage **A4** = 12 VDC **A5** = 24 VDC **A6** = 24 VAC * **A7** = 110 VAC * **A8** = 230 VAC * **A9** = 24 VDC ** 22 mm coil voltage **B2** = Without coil M2 mechanic **B4** = 12 VDC **B5** = 24 VDC **B6** = 24 VAC * **B7** = 110 VAC * **B8** = 230 VAC * **B9** = 24 VDC *** 30 mm coil voltage **C5** = 24 VDC **C6** = 24 VAC * **C7** = 110 VAC * **C8** = 230 VAC * **C9** = 24 VDC *** Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) * (50 - 60 Hz) ** (1Watt) *** (2 Watt)		/		
 4	**N174BVE _** 15 mm coil voltage **A4** = 12 VDC **A5** = 24 VDC **A6** = 24 VAC * **A7** = 110 VAC * **A8** = 230 VAC * **A9** = 24 VDC ** 22 mm coil voltage **B2** = Without coil M2 mechanic **B4** = 12 VDC **B5** = 24 VDC **B6** = 24 VAC * **B7** = 110 VAC * **B8** = 230 VAC * **B9** = 24 VDC *** 30 mm coil voltage **C5** = 24 VDC **C6** = 24 VAC * **C7** = 110 VAC * **C8** = 230 VAC * **C9** = 24 VDC *** * (50 - 60 Hz) ** (1Watt) *** (2 Watt)		/		
Progressive start-up valve (AP)					
 1	**171 _ AP** Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Indifferent	/	13 bar	-5°C - +50°C
 2	**172 _ AP** Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 3	**173 _ AP** Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		/		
 4	**N174BAP _** Flow direction = from left to right **W** = from right to left		/		

	Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Air intake (PA)						
	1	**T171BPA**	Indifferent	/	13 bar	-5°C - +50°C
	2	**T172BPA**		/		
	3	**T173BPA**		/		
	4	**N174BPA**		/		
Pressure switch (PP)						
	1	**T171BPP**	Indifferent	/	13 bar	-5°C - +50°C
	2	**T172BPP**		/		
	3	**T173BPP**		/		
	4	**N174BPP** Flow direction = from left to right **W** = from right to left		/		

	Size	Ordering code
Flange X	1	**T171X**
	2	**T172X**
	3	**T173X**
	4	**T174X**
Flange Y	1	**T171Y**
	2	**T172Y**
	3	**T173Y**
	4	**T174Y**
Aluminium flange Y	1	**N171Y**
	2	**N172Y**
	3	**N173Y**

	Size	Ordering code
Fixing bracket	1	**17150**
	2	**T17250**
	3	**T17250**
Manometer		**17070** _ . _ **A** = Scale 0 - 4 bar **B** = Scale 0 - 6 bar **C** = Scale 0 - 12 bar **A** = Dial Ø40 **B** = Dial Ø50
		

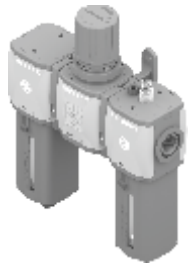
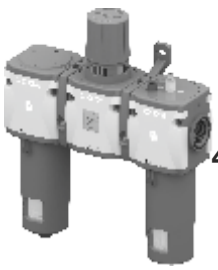
Size	Ordering code	Mounting Position	Max bowl capacity	Max. pressure	Temperature
Supply and Discharge Valve Single (VS)   3 	**N173BVS** _ _ Fixings = Without fixing (no additional letter required) **01** = Fixing bracket mounted (Left-Right) **02** = Fixing bracket mounted (Right-Left) Versions = Standard (without connections) **M** = Incorporated pressure gauge **W** = Incorporated pressure gauge (Right-Left) **G** = G1/8" pressure gauge Connection	Indifferent	/	10 bar	-10°C - +50°C
Supply and Discharge Valve Double (V2S)   3 	**N173BV2S** _ _ _ Flow rate direction = Standard (Left-Right) (no additional letter required) **W** = Right-Left Fixing **X** = "X" Flange **Y** = "Y" Flange **K** = "Y" Aluminium flange Versions = Standard (without connections) **M** = Incorporated pressure gauge **G** = G1/8" pressure gauge Connection	Indifferent	/	10 bar	-10°C - +50°C

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (EM+L) (E+L) (EW+L)					
 1	**G _ 171 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 18		
 2	**G _ 172 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 34	13 bar	-5°C - +50°C
 3	**G _ 173 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**GN174B * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
H = built in gauge
J = G1/8" gauge connection

* Flow direction
= Standard (from left to right)
W = from right to left

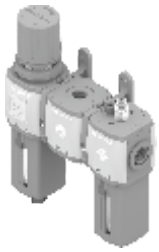
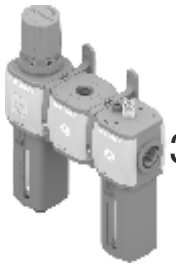
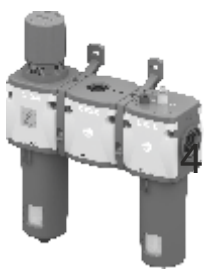
** Bowl options :
= Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (F+RM+L) (F+R+L) (F+RW+L)					
 1	**G _ 171 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 18		
 2	**G _ 172 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 34	13 bar	-5°C - +50°C
 3	**G _ 173 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**GN174B * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
K = built in gauge
T = G1/8" gauge connection

* Flow direction
* = Standard (from left to right)
W = from right to left

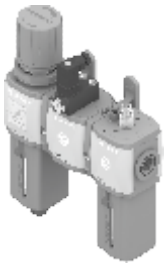
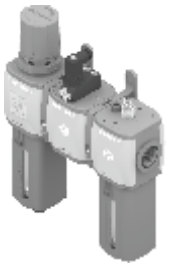
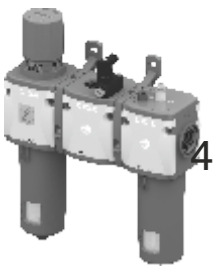
* Bowl options :
* = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (EM+PA+L) (E+PA+L) (EW+PA+L)  1	**G _ 171 _ * _ _ ** ** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - +50°C
 2	**G _ 172 _ * _ _ ** ** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
 3	**G _ 173 _ * _ _ ** ** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**GN174B * _ _ ** ** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
N = built in gauge
P = G1/8" gauge connection

* Flow direction
= Standard (from left to right)
W = from right to left

* * Bowl options :
= Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (EM+PP+L) (E+PP+L) (EW+PP+L)					
 1	**G _ 171 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 18		
 2	**G _ 172 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 34	13 bar	-5°C - +50°C
 3	**G _ 173 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**GN174B * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
R = built in gauge
C = G1/8" gauge connection

* Flow direction
* = Standard (from left to right)
W = from right to left

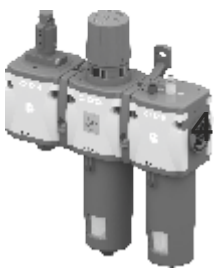
* Bowl options :
* = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (VL+EM) (VL+E) (VL+EW)					
 1	**G _ 171 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 18		
 2	**G _ 172 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 34	13 bar	-5°C - +50°C
 3	**G _ 173 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**GN174B * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
VG = built in gauge
VU = G1/8" gauge connection

* Flow direction
* = Standard (from left to right)
W = from right to left

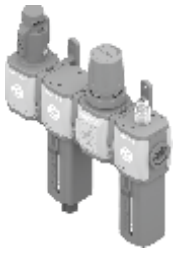
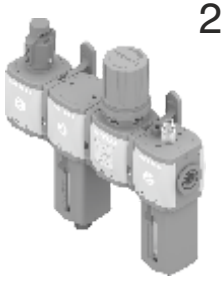
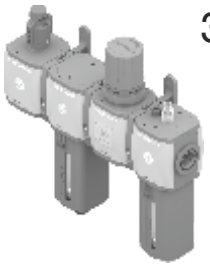
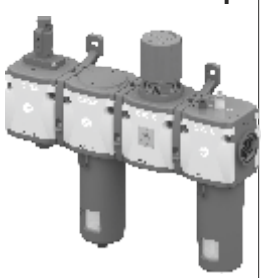
* Bowl options :
* = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (VL+EM+L) (VL+E+L) (VL+EW+L)  1	**G _ 171 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - +50°C
 2	**G _ 172 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
 3	**G _ 173 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
	**GN174B * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
VH = built in gauge
VJ = G1/8" gauge connection

* Flow direction
* = Standard (from left to right)
W = from right to left

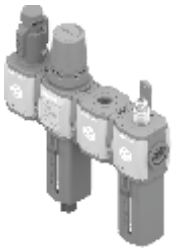
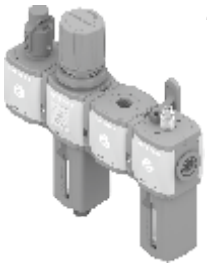
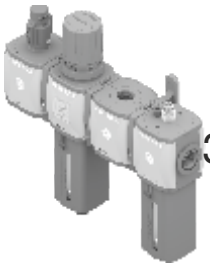
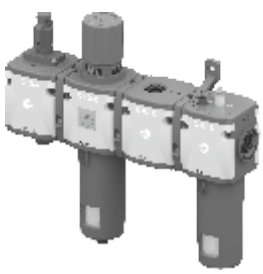
* Bowl options :
* = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (VL+F+RM+L) (VL+F+R+L) (VL+F+RW+L)					
1 	**G _ 171 _ * _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - +50°C
2 	**G _ 172 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
3 	**G _ 173 _ * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
4 	**GN174B * _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
VK = built in gauge
VT = G1/8" gauge connection

* Flow direction
* = Standard (from left to right)
W = from right to left

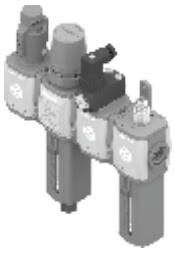
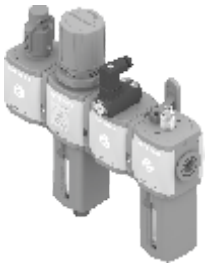
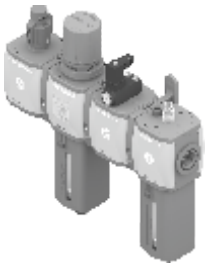
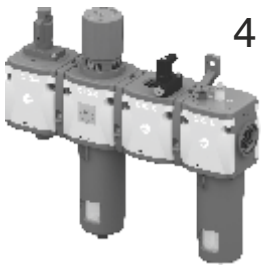
* Bowl options :
* = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (VL+EM+PA+L) (VL+E+PA+L) (VL+EW+PA+L)					
1 	**G _ 171 _ * _ _ _ * * *** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 18	13 bar	-5°C - +50°C
2 	**G _ 172 _ * _ _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 34		
3 	**G _ 173 _ * _ _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
4 	**GN174B * _ _ _ * * *** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

* Type
VN = built in gauge
VP = G1/8" gauge connection

* Flow direction
* = Standard (from left to right)
W = from right to left

* Bowl options :
* = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (VL+EM+PP+L) (VL+E+PP+L) (VL+EW+PP+L)					
 1	**G 171 * * **** Standard (no additional letter required) **S** = Automatic drain Filter pore size/ Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/8" (only for "N" version) **B** = G 1/4" **C** = G 1/4" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 18		
 2	**G 172 * * **** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 1/4" (only for "N" version) **B** = G 3/8" **C** = G 3/8" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread	Vertical	cm³ 34	13 bar	-5°C - +50°C
 3	**G 173 * * **** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar Connections **A** = G 3/8" (only for "N" version) **B** = G 1/2" **C** = G 1/2" NPT (only for "N" version) Version **N** = Metal inserts **T** = Technopolymer thread		cm³ 68		
 4	**GN174B * **** Standard (no additional letter required) **A** = Min.oil level indicator N.O. **C** = Min.oil level indicator N.C. **S** = Automatic drain **SA** = Automatic drain + Min.oil level indicator N.O. **SC** = Automatic drain + Min.oil level indicator N.C. Filter pore size / Adjusting range **C** = 5 µm / 0-8 bar **D** = 5 µm / 0-12 bar **G** = 20 µm / 0-8 bar **H** = 20 µm / 0-12 bar **N** = 50 µm / 0-8 bar **P** = 50 µm / 0-12 bar		cm³ 90		

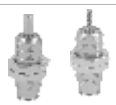
* Type
VR = built in gauge
VC = G1/8" gauge connection

* Flow direction
* = Standard (from left to right)
W = from right to left

* Bowl options :
** = Standard (no additional letter required)
N = Nylon bowl

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (VE + AP)					
1 	**G _ 171 _S _** 15 mm coil voltage: **A4** = 12 VDC; **A5** = 24 VDC; **A6** = 24 VAC *; **A7** = 110 VAC *; **A8** = 230 VAC *; **A9** = 24 VDC ** 22 mm coil voltage: **B2** = Without coil M2 mechanic; **B4** = 12 VDC; **B5** = 24 VDC; **B6** = 24 VAC *; **B7** = 110 VAC *; **B8** = 230 VAC *; **B9** = 24 VDC *** 30 mm coil voltage: **C5** = 24 VDC; **C6** = 24 VAC *; **C7** = 110 VAC *; **C8** = 230 VAC *; **C9** = 24 VDC *** Connections: **A** = G 1/8" (only for "N" version); **B** = G 1/4"; **C** = G 1/4" NPT (only for "N" version) Version: **N** = Metal inserts; **T** = Technopolymer thread * (50 - 60 Hz); ** (1Watt); *** (2 Watt)	Indifferent	/	10 bar	-5°C - +50°C
2 	**G _ 172 _S _** 15 mm coil voltage: **A4** = 12 VDC; **A5** = 24 VDC; **A6** = 24 VAC *; **A7** = 110 VAC *; **A8** = 230 VAC *; **A9** = 24 VDC ** 22 mm coil voltage: **B2** = Without coil M2 mechanic; **B4** = 12 VDC; **B5** = 24 VDC; **B6** = 24 VAC *; **B7** = 110 VAC *; **B8** = 230 VAC *; **B9** = 24 VDC *** 30 mm coil voltage: **C5** = 24 VDC; **C6** = 24 VAC *; **C7** = 110 VAC *; **C8** = 230 VAC *; **C9** = 24 VDC *** Connections: **A** = G 1/4" (only for "N" version); **B** = G 3/8"; **C** = G 3/8" NPT (only for "N" version) Version: **N** = Metal inserts; **T** = Technopolymer thread * (50 - 60 Hz); ** (1Watt); *** (2 Watt)		/		
3 	**G _ 173 _S _** 15 mm coil voltage: **A4** = 12 VDC; **A5** = 24 VDC; **A6** = 24 VAC *; **A7** = 110 VAC *; **A8** = 230 VAC *; **A9** = 24 VDC ** 22 mm coil voltage: **B2** = Without coil M2 mechanic; **B4** = 12 VDC; **B5** = 24 VDC; **B6** = 24 VAC *; **B7** = 110 VAC *; **B8** = 230 VAC *; **B9** = 24 VDC *** 30 mm coil voltage: **C5** = 24 VDC; **C6** = 24 VAC *; **C7** = 110 VAC *; **C8** = 230 VAC *; **C9** = 24 VDC *** Connections: **A** = G 3/8" (only for "N" version); **B** = G 1/2"; **C** = G 1/2" NPT (only for "N" version) Version: **N** = Metal inserts; **T** = Technopolymer thread * (50 - 60 Hz); ** (1Watt); *** (2 Watt)		/		
4 	**GN174BS _** 15 mm coil voltage: **A4** = 12 VDC; **A5** = 24 VDC; **A6** = 24 VAC *; **A7** = 110 VAC *; **A8** = 230 VAC *; **A9** = 24 VDC ** 22 mm coil voltage: **B2** = Without coil M2 mechanic; **B4** = 12 VDC; **B5** = 24 VDC; **B6** = 24 VAC *; **B7** = 110 VAC *; **B8** = 230 VAC *; **B9** = 24 VDC *** 30 mm coil voltage: **C5** = 24 VDC; **C6** = 24 VAC *; **C7** = 110 VAC *; **C8** = 230 VAC *; **C9** = 24 VDC *** * (50 - 60 Hz); ** (1Watt); *** (2 Watt)		/		

4 - Cylinders

	Ordering code
Threaded body, round execution Front spring 	**1213.6.5** = Ø 6 stroke 5 mm threaded body M10x1 **1213.6.10** = Ø 6 stroke 10 mm threaded body M10x1 **1213.6.20** = Ø 6 stroke 20 mm threaded body M10x1 **1213.8.5** = Ø 8 stroke 5 mm threaded body M12x1 **1213.10.3** = Ø 10 stroke 3 mm threaded body M15x1,5 **1213.10.5** = Ø 10 stroke 5 mm threaded body M15x1,5 **1213.10.10** = Ø 10 stroke 10 mm threaded body M15x1,5
Threaded body, hexagonal execution 	**1213.Ø.stroke.C** = Single acting front spring **1213.Ø.stroke.CF** = Single acting front spring threaded body
Front fixing microcylinder Front spring Ø4 	**1273.4.10**

MICROCYLINDERS ACCORDING TO STANDARD ISO 6432, THREADED END COVERS

(series 1200, chapter 4)

Basic version, without rear eye and push/pull rod

Ordering code

12 _ _ .Ø.stroke. _

- _ = Version with non magnetic piston
- **A** = Adjustable cushioning (from Ø16)
- **M** = Magnetic piston (from Ø10)
- **X** = Stainless steel rod
- **A.M** = Cushioning with magnetic piston
- **A.M.X** = Cushioning, magnetic piston and stainless steel piston rod
- **E** = Hexagonal piston rod from Ø12 (only for 1260-62, 1271-72)
- **E.M** = Hexagonal piston rod with magnetic piston from Ø12 (only for 1260, 1271, 1272)
- **E.X** = Hexagonal stainless steel piston rod (only for 1260, 1271, 1272)
- **T** = Seals HNBR version
- **V** = Seals FPM version
- **L** = Air inlet at 90° version (only for 1261, 1273, 1274)

- **60** = Basic version
- **61** = Without rear eye version
- **62** = Push/Pull rod version
- **71** = Basic version front spring from Ø12 (max stroke 40 mm)
- **72** = Basic version rear spring from Ø12 (max stroke 40 mm)
- **73** = Without rear eye front spring from Ø12 (max stroke 40 mm)
- **74** = Without rear eye rear spring from Ø12 (max stroke 40 mm)

Bore:
Ø8, Ø10, Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50

Standard strokes

Ø 8 and Ø 10: 15-25-50-75-80-100 mm
Ø 12 and Ø 16: 15-25-50-75-80-100-150-160-200-250-300 mm
Ø 20 and Ø 25: 15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm
Ø 32 - Ø 50: 15-25-50-75-80-150-160-200-250-300-320-350-400-450-500 mm

Magnetic versions = Ø 10 and Ø 12, 15 mm (for 2 sensors). Other diameters 5 mm.

Ordering code

Basic version, without rear eye and push/pull rod

12 _ _ .Ø.stroke. _

- = Version with non magnetic piston
- **M** = Magnetic piston
- **A** = Adjustable cushioning (from Ø16)
- **A.M** = Cushioning with magnetic piston (from Ø16)
- **T** = HNBR seals version
- **V** = FPM seals version

- **80** = Basic version
- **81** = Without rear eye version
- **82** = Push/Pull rod version
- **91** = Basic version front spring (max stroke 50 mm)
- **92** = Basic version rear spring, from Ø16 (max stroke 50 mm)
- **93** = Without rear eye front spring (max stroke 50 mm)
- **94** = Without rear eye rear spring from Ø16 (max stroke 50 mm)

Bore:
Ø8, Ø10, Ø12, Ø16, Ø20, Ø25, Ø32

Standard strokes

Ø 8 and Ø 10: 15-25-50-75-80-100 mm

Ø 12 and Ø 16: 15-25-50-75-80-100-150-160-200-250-300 mm

Ø 20 and Ø 25: 15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm

Ø 32: 15-25-50-75-80-150-160-200-250-300-320-350-400-450 -500 mm

MICROCYLINDERS ACCORDING TO STANDARD ISO 6432 "MIR-INOX", ROLLED END COVERS
(series 1200, chapter 4)

Ordering code

Basic version and push/pull rod

128 _ .Ø.stroke. _

- **X** = Inox non-magnetic version, NBR seals
- **XV** = Inox non-magnetic, FPM seals
- **AX** = Inox non-magnetic version with cuschions, NBR seals
- **AXV** = Inox non-magnetic version with cuschions, FPM seals
- **MX** = Inox magnetic version, NBR seals
- **MXV** = Inox magnetic version, FPM seals
- **AMX** = Inox magnetic version with cuschions, NBR seals
- **AMXV** = Inox magnetic version with cuschions, FPM seals

- **0** = Basic version
- **2** = Push/pull rod magnetic version

Bore:
Ø16, Ø20, Ø25, Ø32

Standard strokes

Ø 16: 15-25-50-75-80-100-150-160-200-250-300 mm

Ø 20 and Ø 25: 15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm

Ø 32: 15-25-50-75-80-100-150-160-200-250-300-320-350-400-450-500 mm

	Ordering code
Basic version, without rear eye and push/pull rod   	**12 _ _ .Ø.stroke. _** = Version with non magnetic piston **M** = Version with magnetic piston **30** = Basic version **31** = Without rear eye version **32** = Push/Pull rod version **Bore:** Ø12, Ø16, Ø20, Ø25 **Standard strokes** **Ø 12 :** 15-25-50-75-80-100-125-150-160-200 mm **Ø 16 :** 15-25-50-75-80-100-125-150-160-200-250 mm **Ø 20 and Ø 25 :** 15-25-50-75-80-100-125-150-160-200-250-300 mm

Sensor clamps

Sensor clamps for microcylinders with threaded end covers and technopolymer	
1260.Ø.FS	**1260.Ø.F**
For sensors codes 1580._, MRS._, MHS._ (from Ø8 to Ø32) 	For sensors codes 1500._, RS._, HS._ (from Ø16 to Ø32) 

Sensor clamps for microcylinders with rolled end covers "MIR" and "MIR-INOX"	
1280.Ø.FS **1280.Ø.FSX**	**1280.Ø.F** **1280.Ø.FX**
For sensors codes 1580._, MRS._, MHS._ (from Ø8 to Ø32) 	For sensors codes 1500._, RS._, HS._ (from Ø16 to Ø32) 

Fixing

Foot	Flange	Rear eye	Piston rod forks		Nut & Lock for endacaps	
1200.Ø.01	**1200.Ø.02**	**1200.Ø.03**	**1200.Ø.04** (with pin)	**1200.Ø.04/1** (with clips)	**1200.Ø.05**	
					 from Ø 8 to Ø 25	 from Ø32 to Ø50

Inox fixing

Foot	Flange	Rear eye
1200.Ø.01X	**1200.Ø.02X**	**1200.Ø.03X**
(stainless steel AISI 304) 	(stainless steel AISI 304) 	(stainless steel AISI 304) 

Piston rod fork	Nut for endcaps	Lock for endcaps
1200.Ø.04X	**1200.Ø.05X**	
(stainless steel AISI 304) 	 from Ø 16 to Ø 25	 Ø 32

Basic version and push/pull rod

Ordering code

12X _ _ . _ _ _ . _ _ _ _ . _ _ . _ _

Bore
- 016
- 020
- 025
- 032
- 040
- 050
- 063

Stroke

Seals
- **N** = NBR
- **V** = FPM
- **P** = PUR

Magnetic piston variants
- **M**= Magnetic piston (max. temperature +80°C)
- **N** = Non magnetic piston

Type (Basic version)
- **A** = **Front end cap:** clean profile; **Rear end cap:** with integrated trunnion
- **B** = **Front end cap:** clean profile; **Rear end cap:** threaded
- **C** = **Front end cap:** threaded; **Rear end cap:** threaded
- **D** = **Front end cap:** threaded; **Rear end cap:** short end cap
- **E*** = **Front end cap:** for pin; **Rear end cap:** short end cap

*Available only for Ø32 - Ø40 - Ø50 - Ø63

Type (Push/pull rod version)
- **S** = **End cap:** threaded; **End cap:** threaded
- **T** = **End cap:** threaded; **End cap:** clean profile

Function
- **A** = Double acting
- **B** = Double acting cushioned
- **C** = Double acting through rod
- **D** = Double acting cushioned through rod

Accessories

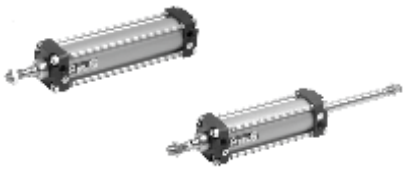
Sensor clamps cod. 1580._, MRS._, MHS._		Foot	Flange	
12X.Ø.FS	**12X.Ø.FSX**	**12X.Ø.01**	**12X.Ø.02**	
			 (For Ø16 - Ø20 - Ø25)	 (For Ø32 - Ø40 - Ø50 - Ø63)

Rear clevis	Rod lock nut	Nut / Lock nut for the end cap	Front clevis	Pin for front clevis
12X.Ø.03	**12X.Ø.11**	**12X.Ø.05**	**12X.Ø.08**	**12X.Ø.09**
				

Ball joint	Cylinder rod fork
12X.Ø.10	**12X.Ø.04**
	

Ordering code

Basic and push/pull version — double acting



130 _ .Ø.stroke. _ _

- **A** = aluminium barrel
- **01** = basic version
- **02** = push/pull
- **3** = CNOMO non magnetic piston
- **4** = CETOP non magnetic piston
- **5** = ISO non magnetic piston
- **6** = CNOMO magnetic piston
- **7** = CETOP magnetic piston
- **8** = ISO magnetic piston

Simple acting

Among the various specifications there are also standard stroke cylinders, with strokes not superior to 50 mm. The ordering code is obtained by adding the letters **MA** for the front spring and **MP** for the rear spring.
For example: **1303.32.50.01MA**
1303.40.25.01MP

Tandem version

130 _ .Ø.stroke.

- **H** = Push with a common rod (aluminium barrel)
- **3** = CNOMO non magnetic piston
- **4** = CETOP non magnetic piston
- **5** = ISO non magnetic piston
- **6** = CNOMO magnetic piston
- **7** = CETOP magnetic piston
- **8** = ISO magnetic piston

130 _ .Ø.stroke.stroke1. _

- **N** = Tandem push with independent rods (aluminium barrel)
- **R** = Opposed tandem with common rods (aluminium barrel)
- **U** = Tandem with opposed rods (aluminium barrel)
- **3** = CNOMO no magnetic piston
- **4** = CETOP no magnetic piston
- **5** = ISO no magnetic piston
- **6** = CNOMO magnetic piston
- **7** = CETOP magnetic piston
- **8** = ISO magnetic piston

Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100 - Ø125 - Ø160 - Ø200

Standard strokes

from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm.

NOTE

Add "X" to the cylinder code to order cylinders with STAINLESS STEEL rods:
Example:**1303.32.250.01AX**
Add "V" to the cylinder code to order cylinders with FPM seals:
Example:**1303.32.250.01AV**
Add "MA" to the cylinder code to order cylinders single acting front spring, with strokes not superior to 50:
Example:**1303.32.50.01AMA**
Add "MP" to the cylinder code to order cylinders single acting rear spring, with strokes not superior to 50:
Example:**1303.50.25.01AMP**

Front and rear flange		Standard feet		Short feet	Large internal and external feet	
CNOMO	CETOP-ISO	CNOMO	CETOP-ISO	CNOMO-CETOP-ISO	CNOMO	CNOMO
1303.Ø.03F	**1304.Ø.03F**	**1303.Ø.05F**	**1304.Ø.05F**	**1303.Ø.05/1F**	**1303.Ø.06F**	**1303.Ø.07F**
						

Front clevis		Rear clevis complete with pin		Rear male clevis	Rear clevis bracket
CNOMO	CETOP-ISO	CNOMO	CETOP-ISO	CETOP-ISO	CNOMO
1303.Ø.08F	**1304.Ø.08F**	**1303.Ø.09F**	**1304.Ø.09F**	**1304.Ø.09/1F**	**1303.Ø.10F**
					

Trunnion with support bracket	Intermediate trunnion	Fork with pin			Male fork
CNOMO		CNOMO	CETOP	ISO	CNOMO
1303.Ø.11F	**1300.Ø.12F**	**1300.Ø.13F**	**1301.Ø.13F**	**1302.Ø.13F**	**1300.Ø.14F**
					

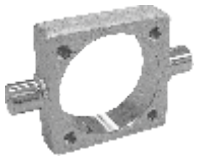
Fork with clips			Distributor supports	Bases for ISO distributor	
CNOMO	CETOP	ISO	**1306.15**	**1320.21**	**1320.22**
1300.Ø.13/1F	**1301.Ø.13/1F**	**1302.Ø.13/1F**	(Ø32 - Ø100)	ISO 1	ISO 2
					

Rod lock nut			Sensor brackets codes 1500._, RS._, HS._		
CNOMO	CETOP	ISO	**1306.A**	**1306.B**	**1306.C**
1300.Ø.18F	**1301.Ø.18F**	**1302.Ø.18F**	(from Ø32 to Ø63)	(from Ø80 to Ø125)	(from Ø160 to Ø200)
					

		Ordering code
Basic version 	**Aluminium barrel**	**1315.250.stroke.01A** **1315.320.stroke.01A** NOTE: for version with FPM seals, add "V" at the end of the base code.

Standard strokes

from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm.

Front and rear flange	Rear clevis complete with pin	Rear male clevis	Intermediate trunnion
1315.250.03F **1315.320.03F**	**1315.250.09F** **1315.320.09F**	**1315.250.09/1F** **1315.320.09/1F**	**1305.250.12F** **1305.320.12F**
			

Fork with pin	Rod lock nut	Sensor brackets codes 1500._, RS._, HS._	Ball joint
1302.250.13F **1302.320.13F**	**1302.250.18F** **1302.320.18F**	**1306.D (D.250)** **1306.E (D.320)**	**1320.250.32F** **1320.320.32F**
			

4

CYLINDERS

Basic version and push/pull

Ordering code

Double acting

13_ _ .Ø.stroke. _ _ _

- **V** = Non magnetic FPM seal
- **01** = Basic version
- **02** = Push/Pull

- **19** = Magnetic chromed rod
- **20** = Magnetic stainless steel rod
- **21** = Non magnetic chromed rod

Single acting

13 _ _ .Ø.stroke. 01._ _ _

- **V** = Non magnetic FPM seal
- **MA** = Front spring (stroke max 50 mm)
- **MP** = Rear spring (stroke max 50 mm)

- **19** = Magnetic chromed rod
- **20** = Magnetic stainless steel rod
- **21** = Non magnetic chromed rod

Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100 - Ø125 - Ø160 - Ø200

Standard strokes
from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm.

Tandem version

Ordering code

13 _ .Ø.stroke. _

- **G** = push with a common rod

- **19** = Magnetic chromed rod
- **20** = Magnetic stainless steel rod
- **21** = Non magnetic chromed rod

13 _ .Ø.stroke.stroke1. _

- **F** = tandem push with independent rods
- **D** = opposed tandem with common rods
- **E** = tandem with opposed rods

- **19** = Magnetic chromed rod
- **20** = Magnetic stainless steel rod
- **21** = Non magnetic chromed rod

TWIN RODS CYLINDERS
(series 1325-1326-1345-1347, chapter 4)

Basic version

Ordering code

13 _ _ .Ø.stroke. _ _

- **01** = Basic version
- **01 x** = Basic version stainless steel piston rod
- **02** = Push-pull rod version
- **02 x** = Push-pull rod vers. stainless steel piston rod
- **06** = Twin rod push-pull version
- **06 x** = Twin rod push-pull vers. stainless steel piston rod

- **25** = Magnetic
- **26** = Non magnetic
- **45** = Magnetic version extended front cover (only for basic version 01 or 01x)
- **47** = Non magnetic version extended front cover (only for basic version 01 or 01x)

Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100

Standard strokes

Ø 32: 25-50-75-100-150-200 mm
Ø 40: 25-50-75-100-150-200-250 mm
Ø 50: 25-50-75-100-150-200-250-300 mm
Ø63: 25-50-75-100-125-150-160-200-300-320 mm
Ø80: 25-50-75-100-150-200-250-300-350-400-500 mm
Ø100: 25-50-75-100-150-200-250-300-350-400-500 mm

Accessories

Threaded nipple	Front flange	Front foot mounting bracket (short)	Sensor brackets
1325.Ø.17F	**1325.Ø.03F**	**1325.Ø.05/1F**	**See 1319 - 1321 series**
			

Ordering code

Non rotating version

13_ _ .Ø.stroke. _ _

- **01** = Basic version
- **02** = Push/Pull

- **48** = Magnetic chromed rod
- **49** = Magnetic stainless steel rod
- **50** = Non magnetic chromed rod

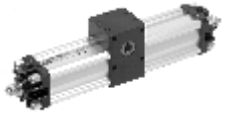
Bore: Ø32 - Ø40 - Ø50 - Ø63

Standard strokes

Ø 32: 25-50-75-80-100-125-150 mm
Ø 40: 25-50-75-80-100-125-150-160 mm
Ø 50: 25-50-75-80-100-125-150-160-200-250 mm
Ø 63: 25-50-75-80-100-125-150-160-200-300-320 mm

ROTARY ACTUATORS
(series 1330-1333, chapter 4)

Ordering code



13 _ _ .Ø.*. _ _

- **01** = Without rotating adjustment angle
- **01R** = With rotating adjustment angle

- **30** = Female magnetic pinion version
- **31** = Female non magnetic pinion version
- **32** = Male magnetic pinion version
- **33** = Male non magnetic pinion version

* = Rotating angle: 90 - 180 - 270 - 360

Bore	32	40	50	63	80	100
Torque Nm/bar	0,9	1,7	2,9	5,55	13,2	23,8
Axis load max. kg.	8	10	10	12	18	22
Cushioning angle	60°	60°	50°	50°	40°	40°

ACCESSORIES FOR CYLINDERS SERIES
1319 - 1321 / 1325 - 1326 / 1345 - 1347 / 1330 - 1333 / 1348 - 1350

Distributor supports
1320.15 = (Ø 32 - Ø40) **1320.16** = (Ø50 - Ø63) **1320.17** = (Ø80 - Ø100) **1320.18** = (Ø125) **1320.19** = (Ø160) **1320.20** = (Ø200)

Bases for ISO distributors	
1320.21	**1320.22**
ISO 1	ISO 2

Sensor brackets codes 1500._, RS._, HS._			
1320.A	from Ø32 to Ø40	**1320.D**	Ø125
1320.B	from Ø50 to Ø63	**1320.E**	Ø160
1320.C	from Ø80 to Ø100	**1320.F**	Ø200

Sensor brackets codes 1580._, MRS._, MHS._	
1320.AS	from Ø32 to Ø40
1320.BS	from Ø50 to Ø63
1320.CS	from Ø80 to Ø100

Ordering code

Basic and Pull/Push version

13_ _. Ø . STROKE .

- **01** = Basic version
- **02** = Push/Pull version

- **86** = Magnetic chromed rod end plates made of hight resistant termoplastic material
- **87** = Magnetic stainless steel rod end plates made of hight resistant termoplastic material
- **88** = Non magnetic end plates made of hight resistant termoplastic material
- **96** = Magnetic chromed rod with end plates made of aluminium alloy casting
- **97** = Magnetic stainless steel rod with end plates made of aluminium alloy casting
- **98** = Non magnetic with end plates made of aluminium alloy casting

Tandem version

13_ _. Ø . STROKE .(STROKE1) .

- **G** = Tandem push with common rod
- **F** = Tandem push with independent rods
- **D** = Opposed tandem with common rods
- **E** = Tandem with opposed rods

- **86** = Magnetic chromed rod end plates made of hight resistant termoplastic material
- **87** = Magnetic stainless steel rod end plates made of hight resistant termoplastic material
- **88** = Non magnetic end plates made of hight resistant termoplastic material
- **96** = Magnetic chromed rod with end plates made of aluminium alloy casting
- **97** = Magnetic stainless steel rod with end plates made of aluminium alloy casting
- **98** = Non magnetic with end plates made of aluminium alloy casting

Basic version low friction

13_ _. Ø . STROKE.

- **03** = Without cushioning
- **04** = Front cushioning
- **05** = Rear cushioning
- **06** = Front and Rear cushioning
- **07** = Without cushioning, rear push only
- **08** = Without cushioning, front push only

- **86** = Magnetic chromed rod end plates made of hight resistant termoplastic material
- **87** = Magnetic stainless steel rod end plates made of hight resistant termoplastic material
- **88** = Non magnetic end plates made of hight resistant termoplastic material
- **96** = Magnetic chromed rod with end plates made of aluminium alloy casting
- **97** = Magnetic stainless steel rod with end plates made of aluminium alloy casting
- **98** = Non magnetic with end plates made of aluminium alloy casting

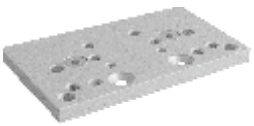
Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100

Standard strokes
from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm

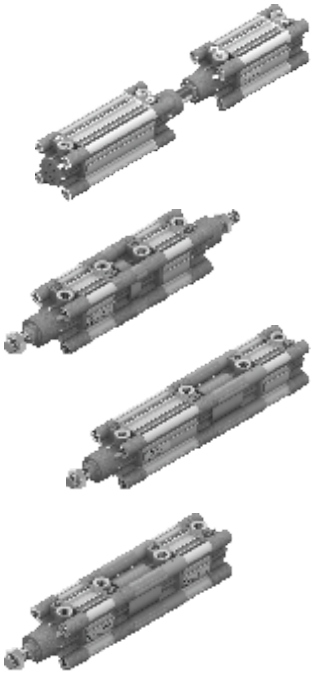
Series 1386 - 1388 = ECOPLUS-T With end plates made of hight resistant termoplastic material
Series 1396 - 1398 = ECOPLUS-M With end plates made of aluminium alloy casting

NOTE:
13_ _.Ø.stroke._ _.P = Version with PUR seals
13_ _.Ø.stroke._ _.K = Version with aluminium piston
13_ _.Ø.stroke._ _.PK =Version with PUR seals and aluminium piston

Accessories

For Ecoplus cylinders series 1386 - 88 / 1396 - 98
1386.15


Bases for ISO distributors	
1320.23	**1320.24**
ISO 1	ISO 2
	

	Ordering code
Basic and Pull/Push version 	**13_ _. Ø . STROKE. _** **01** = Basic version **02** = Push/Pull version **90** = Magnetic chromed rod **91** = Magnetic stainless steel rod **92** = Non magnetic chromed rod
Tandem version 	**13_ _. Ø . STROKE .(STROKE1) . _** **G** = Tandem push with common rod **F** = Tandem push with independent rods **D** = Opposed tandem with common rods **E** = Tandem with opposed rods **90** = Magnetic chromed rod **91** = Magnetic stainless steel rod **92** = Non magnetic chromed rod

Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100 - Ø125 - Ø160 - Ø200

Standard strokes
from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm

NOTE:
139_.Ø.stroke._ _.P = Version with PUR seals
139_.Ø.stroke._ _.K = Version with aluminium piston (from Ø32 to Ø100)
139_.Ø.stroke._ _.PK =Version with PUR seals and aluminium piston (from Ø32 to Ø100)
139_.Ø.stroke._ _.V =Version with FPM seals and aluminium piston
139_.Ø.corsa._ _.R = Version with metallic rod scraper and aluminium piston (Ø32-Ø100)
139_.Ø.corsa._ _.Q = Version with plastic rod scraper and aluminium piston (Ø32-Ø100)
139_.Ø.corsa._ _.L = Version for low temperature and aluminium piston (-50°C) (Ø32-Ø100)

Accessories

For cylinders Ecolight series 1390 - 1392

1390.25 = (Ø32)
1390.26 = (Ø40)
1390.27 = (Ø50)
1390.28 = (Ø63)
1390.29 = (Ø80)
1390.30 = (Ø100)

from Ø32 to Ø100

Sensor brackets codes 1500._, RS._, HS._	
1390.A	from Ø32 to Ø40
1390.B	from Ø50 to Ø63
1390.C	from Ø80 to Ø100
1390.D	from Ø125 to Ø200

from Ø125 to Ø200

Standard feet	Short feet	Front clevis		Rear clevis complete (MP2)	
1320.Ø.05F	**1320.Ø.05/1F**	**1380.Ø.08F**	**1320.Ø.19F**	**1380.Ø.09F**	**1320.Ø.20F**
(aluminium)	(steel)	(aluminium)	(steel)	(aluminium)	(steel)
					

Rear male clevis (MP4)		Trunnion with support bracket		
1380.Ø.09/1F	**1320.Ø.21F**	**1380.Ø.11F**	**1380.Ø.35F**	**1320.Ø.23F**	**1320.Ø.27F**
(aluminium)	(steel)	(aluminium)	(aluminium)	(from Ø32 to Ø100) (steel)	(steel) (with joined head according to DIN 648K standards) (from Ø32 to Ø125)
					

Standard trunnion	Rear narrow clevis		Rear male clevis		Standard complete trunnion	
1380.Ø.10F	**1380.Ø.30F**	**1320.Ø.29F**	**1380.Ø.15F**	**1320.Ø.25F**	**1380.Ø.36F**	**1320.Ø.26F**
(aluminium)	(aluminium)	(steel) (from Ø32 to Ø125)	(aluminium) (with jointed head according to DIN 648K standards)	(steel) (from Ø32 to Ø125)	(aluminium) (with jointed head according to DIN 648K standards)	(steel) (from Ø32 to Ø125)
						

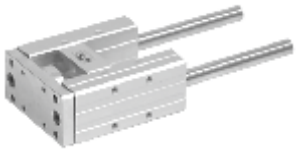
Standard trunnion		Self-aligning joint	Support for intermediate trunnion	Fork with pin
1380.Ø.22F	**1320.Ø.22F**	**1320.Ø.33F**	**1320.Ø.12/1F**	**1320.Ø.13F**
(aluminium)	(steel)	(from Ø32 to Ø100)	(steel)	
				

Flanges		Intermediate trunnion			
1390.Ø.03F	**1390.Ø.03FP**	For 1319 - 1321 series		For Ecoplus series	For Ecolight series
(aluminium)	(die-casting aluminium)	**1320.Ø.12F** (steel)	**1320.Ø.12BF** (aluminium)	**1386.Ø.12F** (steel)	**1390.Ø.12F** (aluminium)
					

Front and rear flanges (MF1 - MF2)	Fork with clips (from Ø 32 to Ø 100)	Rod lock nut	Ball joint
1380.Ø.03F	**1320.Ø.13/1F**	**1320.Ø.18F**	**1320.Ø.32F**
(steel)			
			

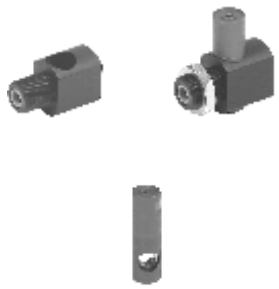
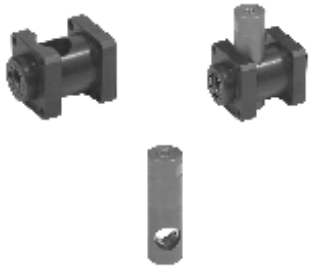
4

CYLINDERS

	Ordering code
	**1260. Ø . stroke . GLB** 20 25 **Standard strokes** **Ø 20** 100-150-200 **Ø 25** 100-150-200-250 **Sensor and sensor clamps** Use standard sensor and clamps
	**1320 . Ø . stroke . GLB** 32 40 50 63 80 **Standard strokes** **Ø 32** 100-150-200-250-300 mm **Ø 40** 100-150-200-250-300-350 mm **Ø 50** 100-150-200-250-300-350-400-450 mm **Ø 63** 100-150-200-250-300-350-400-450-500 mm **Ø 80** 100-150-200-250-300-350-400-450-500-550 mm **Sensor clamps and brackets** Use standard sensor and brackets on the rear and following special brackets on front of cylinders:  **1320.AGL** sensor brackets for cylinders Ø32 and Ø40 **1320.BGL** sensor brackets for cylinders Ø50 and Ø63 **1320.CGL** sensor brackets for cylinders Ø80

MICROCYLINDERS ACC. TO STANDARD ISO 6432 / CYLINDERS ACC. TO STANDARD ISO 15552

(Piston rod lock series 1200 / 1300, section 4)

	Ordering code
	**1260.Ø.51** **BS** = Piston rod lock assembly (not allowed as safety device) **S** = Piston rod lock bracket (not allowed as safety device) **B** = Piston rod lock and housing (not allowed as safety device) Order piston rod lock separately. Do not use with stainless steel or hexagonal piston rod.
	**1320.Ø.51** **BS** = Piston rod lock assembly (not allowed as safety device) **S** = Piston rod lock bracket (not allowed as safety device) **B** = Piston rod lock and housing (not allowed as safety device) Order piston rod lock separately. Do not use with stainless steel piston rod.

Basic and Pull/Push version

Ordering code

13_ _. Ø . stroke . _

- **01** = Basic version
- **02** = Push/Pull version

- **93** = Magnetic
- **94** = Non magnetic

Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100

Standard strokes
from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm

NOTE
139_.(93.94) Ø.stroke._ _ V = Version with FPM seals

Accessories

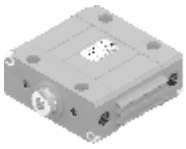
Sensor bracket	Front and rear flanges (MF1 - MF2)	Short mounting foot brackets (MS1)	Rear clevis (MP2)	Rear male clevis (MP4)
1393.A (Ø32 - Ø40)	**1393.Ø.03F**	**1393.Ø.05/1F**	**1393.Ø.09F**	**1393.Ø.09/1F**
1393.B (Ø50 - Ø63)				
1393.C (Ø80 - Ø100)				
				

Pin with circlips for rear clevis (MP4 and MP2)	Standard complete trunnion	Square angle trunnion (AB7)	Rear narrow clevis (AB6)	Ball joint
1393.Ø.37F	**1393.Ø.22F**	**1393.Ø.35F**	**1393.Ø.30F**	**1393.Ø.32F**
				

Rear male clevis (MP6) with jointed head according to DIN 648K standard	Standard complete trunnion with jointed head according to DIN 648K standard
1393.Ø.15F	**1393.Ø.36F**
	

Complete square angle trunnion with joined head acc. to DIN 648K standards	Rod fork and nuts	
1393.Ø.27F	**1393.Ø.13F**	**1393.Ø.18F**
		

Basic version



Push/Pull version

Ordering code

13_ _. size . stroke._

- **1** = Basic version “1” female rod (Side connection)
- **1.P** = Basic version “1.P” female rod (Rear connection)
- **2** = Basic version “2” male rod (Side connection)
- **2.P** = Basic version “2.P” male rod (Rear connection)
- **3** = Female Push/Pull version “3”
- **4** = Male Push/Pull version “4”

- **70** = Magnetic chrome plated rod
- **71** = Magnetic stanless steel rod
- **72** = Non magnetic chrome plated rod
- **73** = Non magnetic stanless steel rod

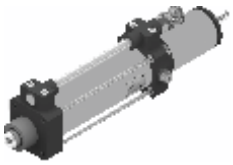
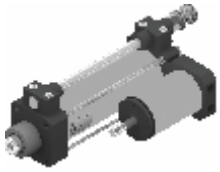
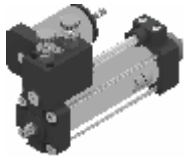
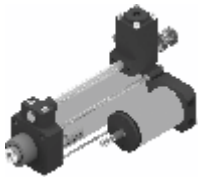
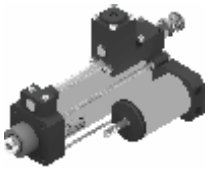
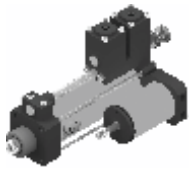
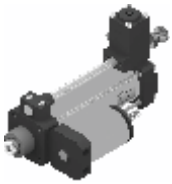
Maximun standard strokes

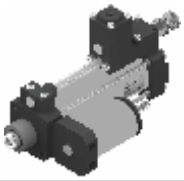
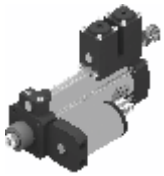
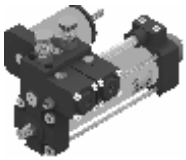
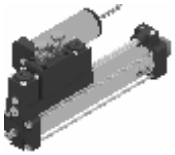
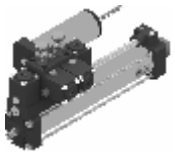
Size 25	200mm
Size 32 - 63	300mm

Accessories

Front and rear flange	Foot bracket	Rear male clevis	Rear clevis	Rod forks
1370.size.03	**1370.size.05/1F**	**1370.size.09/1**	**1370.size.09F**	**1320.size.13F**
from Ø 25 to Ø 63	from Ø 25 to Ø 63	from Ø 25 to Ø 63	from Ø 25 to Ø 63	from Ø 25 to Ø 63
				

Rod forks	Rod nut	Ball joint	Self-aligned joint
1320.size.13/1F	**1320.size.18F**	**1320.size.32F**	**1320.size.33F**
from Ø 25 to Ø 63	from Ø 25 to Ø 63	from Ø 25 to Ø 63	from Ø 25 to Ø 63
			

	Ordering code
	Regulation on the outward stroke - Tank in line **1400.40.stroke.01.1**
	Regulation on the outward stroke - Lateral tank **1400.40.stroke.01.2**
	Regulation on the inward stroke **1400.40.stroke.02.2**
	Regulation in both directions **1400.40.stroke.03.2**
	Regulation on the outward stroke with skip (Acceleration valve) **1400.40.stroke.01.04**
	Regulation on the outward stroke with stop (Stop valve) **1400.40.stroke.01.05**
	Regulation on the outward stroke with skip and stop (Acceleration and stop valves) **1400.40.stroke.01.06**
	Regulation on the inward stroke with skip (Acceleration valve) **1400.40.stroke.02.04**

	Ordering code
	Regulation on the inward stroke with stop (Stop valve) **1400.40.stroke.02.05**
	Regulation on the inward stroke with skip and stop (Acceleration and stop valves) **1400.40.stroke.02.06**
	Regulation in both directions with skip (Acceleration valves in both directions) **1400.40.stroke.03.04**
	Regulation in both directions with stop (Stop valves in both directions) **1400.40.stroke.03.05**
	Regulation in both directions with skip and stop (Acceleration and stop valves in both directions) **1400.40.stroke.03.06**

Attention:

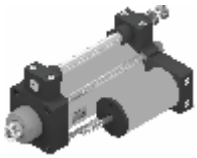
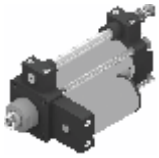
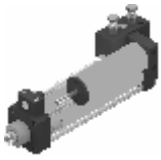
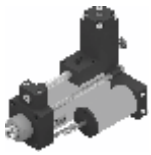
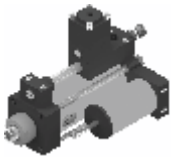
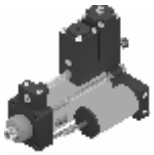
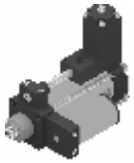
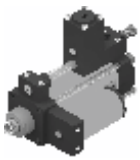
Regulation on the outward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving out speed control piston rod

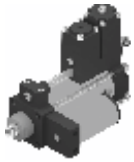
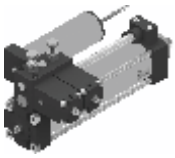
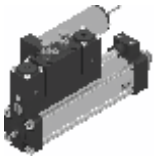
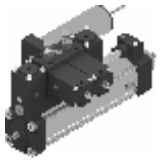
Regulation on the inward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving in speed control piston rod

Standard strokes

50-100-150-200-250-300-350-400-450-500 mm

minimum stroke for codes 1400.stroke.03.05. and 1400.stroke.03.06,150 mm

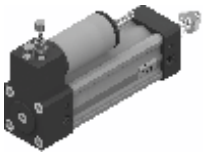
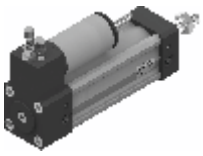
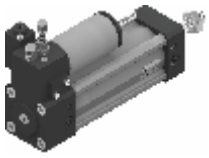
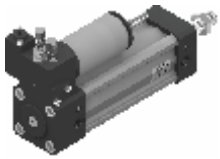
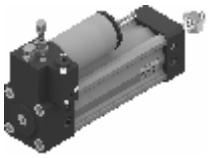
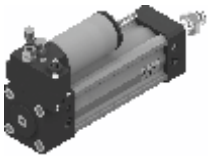
	Ordering code
	Regulation on the outward stroke – Lateral tank **1400.63.stroke.01.2**
	Regulation on the inward stroke **1400.63.stroke.02.2**
	Regulation in both directions **1400.63.stroke.03.2**
	Regulation on the outward stroke with skip (Acceleration valve) **1400.63.stroke.01.04**
	Regulation on the outward stroke with stop (Stop valve) **1400.63.stroke.01.05**
	Regulation on the outward stroke with skip and stop (Acceleration and stop valves) **1400.63.stroke.01.06**
	Regulation on the inward stroke with skip (Acceleration valve) **1400.63.stroke.02.04**
	Regulation on the inward stroke with stop (Stop valves) **1400.63.stroke.02.05**

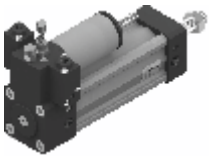
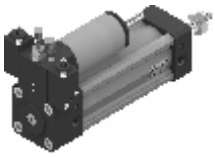
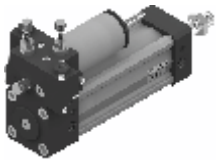
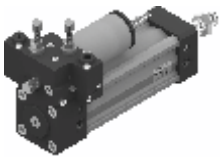
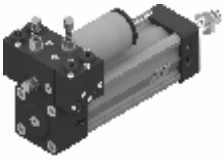
	Ordering code
	Regulation on the inward stroke with skip and stop (Acceleration and stop valve) **1400.63.stroke.02.06**
	Regulation in both direction with skip (Accelerations valve in two directions) **1400.63.stroke.03.04**
	Regulation in both direction with stop (Stop valves in two directions) **1400.63.stroke.03.05**
	Regulation in both direction with skip and stop (Acceleration and stop valves in two directions) **1400.63.stroke.03.06**

Attention:

Regulation on the outward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving out speed control piston rod
Regulation on the inward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving in speed control piston rod

Standard strokes
50-100-150-200-250-300-350-400-450-500 mm
minimum stroke 75 for codes 1400.63.stroke.02 and 1400.63.stroke.03: 100 mm
minimum stroke 75 for codes 1400.63.stroke.05 and 1400.63.stroke.06: 200 mm

	Ordering code
	Regulation on the outward stroke **14Ø.stroke.A.0.0**
	Regulation on the inward stroke **14Ø.stroke.B.0.0**
	Regulation in both directions **14Ø.stroke.D.0.0**
	Regulation on the outward stroke with Skip N.O. **14Ø.stroke.A.0.D**
	Regulation on the inward stroke with Skip N.O. **14Ø.stroke.B.0.E**
	Regulation on the outward stroke with Stop N.O. **14Ø.stroke.A.D.0**
	Regulation on the inward stroke with Stop N.O. **14Ø.stroke.B.E.0**

	Ordering code
	Regulation on the outward stroke with Skip N.O. - Stop N.O. **14Ø.stroke.A.D.D**
	Regulation on the inward stroke with Skip N.O. - Stop N.O. **14Ø.stroke.B.E.E**
	Regulation and Skip in both directions (N.O. Skip valve in both directions) **14Ø.stroke.D.0.F**
	Regulation and Stop in both directions (N.O. Stop valves in both directions) **14Ø.stroke.D.F.0**
	Regulation with Skip and Stop in both directions (N.O. Skip and Stop valves in both directions) **14Ø.stroke.D.F.F**

Fixing devices
All the ISO 15552 fixing devices can be used except for:

- Cylinder Ø63 front clevis ordering code 1463.63.08F
- Cylinder Ø63 front flange ordering code 1463.63.03F
- Cylinder Ø63 Standard Foot ordering code 1463.63.05/1F

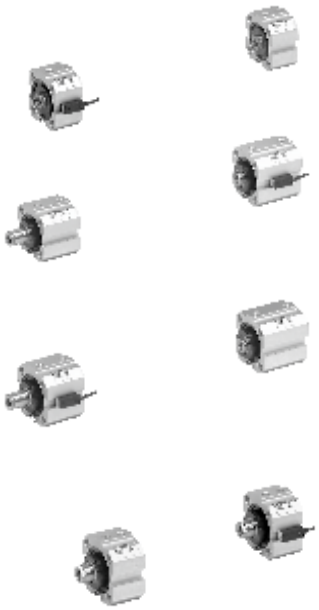
Hydraulic fluid refill syringe	Oil for hydraulic and pneumatic circuits	Sensor brackets codes 1500._, RS._, HS._	Sensor brackets codes 1580._, MRS._, MHS._
1400.99.02	**PNEUMOIL 01**	**1320.B**	**1320.BS**
		 from Ø50 to Ø63	 from Ø50 to Ø63

Attention:

Regulation on the outward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving out speed control piston rod
Regulation on the inward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving in speed control piston rod

Standard strokes
50-100-150-200-250-300-350-400-450 mm

Bore
Ø50 and Ø63

	Ordering code
Basic version 	**15_ _ .Ø.stroke._** standard seals **V** = FPM seals **T** = HNBR seals **01** = Double acting version **11** = Double acting version with magnetic piston **02** = Single acting version front spring **12** = Single acting version front spring with magnetic piston **03** = Single acting version rear spring **13** = Single acting version rear spring with magnetic piston **04** = Double acting push pull version **14** = Double acting push pull version with magnetic piston **Standard strokes:** **Type 1501, 1504, 1511, 1514, 1515, 1516, 1517 and 1518:** for all bores from 5 to 50 mm every 5 mm. **Type1502, 1503, 1512 and 1513:** for all bores from 5 to 10 mm. **Type with non-rotating device:** Ø20 and Ø25 from 5 to 40 mm every 5 mm Ø32 and Ø40 from 5 to 50 mm every 5 mm Ø50 and Ø63 from 5 to 60 mm every 5 mm Ø80 and Ø100 from 5 to 80 mm every 5 mm
Tandem version **Tandem with opposed rods** 	**1515.Ø.stroke.stroke 1** (standard seals) **1515.Ø.stroke.stroke 1.V** (FPM seals) **1515.Ø.stroke.stroke 1.T** (HNBR seals) **1515.Ø.stroke.stroke 1.M** (standard seals magnetic piston) **1515.Ø.stroke.stroke 1.MV** (FPM seals magnetic piston) **1515.Ø.stroke.stroke 1.MT** (HNBR seals magnetic piston)
Tandem push with common rods 	**1516.Ø.stroke.stroke 1** (standard seals) **1516.Ø.stroke.stroke 1.V** (FPM seals) **1516.Ø.stroke.stroke 1.T** (HNBR seals) **1516.Ø.stroke.stroke 1.M** (standard seals magnetic piston) **1516.Ø.stroke.stroke 1.MV** (FPM seals magnetic piston) **1516.Ø.stroke.stroke 1.MT** (HNBR seals magnetic piston)
Tandem push with independent rods 	**1517.Ø.stroke.stroke 1** (standard seals) **1517.Ø.stroke.stroke 1.V** (FPM seals) **1517.Ø.stroke.stroke 1.T** (HNBR seals) **1517.Ø.stroke.stroke 1.M** (standard seals magnetic piston) **1517.Ø.stroke.stroke 1.MV** (FPM seals magnetic piston) **1517.Ø.stroke.stroke 1.MT** (HNBR seals magnetic piston)
Opposed tandem with common rods 	**1518.Ø.stroke.stroke 1** (standard seals) **1518.Ø.stroke.stroke 1.V** (FPM seals) **1518.Ø.stroke.stroke 1.T** (HNBR seals) **1518.Ø.stroke.stroke 1.M** (standard seals magnetic piston) **1518.Ø.stroke.stroke 1.MV** (FPM seals magnetic piston) **1518.Ø.stroke.stroke 1.MT** (HNBR seals magnetic piston)
Anti rotating double acting version 	**1501.Ø.stroke.AR** (standard seals) **1501.Ø.stroke.AR.V** (FPM seals) **1501.Ø.stroke.AR.T** (seals in HNBR)
Anti rotating double acting version, magnetic 	**1511.Ø.corsa.AR** (standard seals) **1511.Ø.corsa.AR.V** (FPM seals) **1511.Ø.corsa.AR.T** (HNBR seals)

Rear female clevis	Rear male clevis	Slot fixing screws	Nipple with ISO standard thread
1500.Ø.09F	**1500.Ø.09/1F**		**1500.Ø.17F**
from Ø 20 to Ø 100 	from Ø 20 to Ø 100 	**1500.15F** = from Ø32 **1500.16F** = from Ø40 to Ø63 **1500.18F** = from Ø80 to Ø100 	

Ordering code

Basic and push/ pull version



15 .Ø.stroke. . .

- **1** = Double acting (magnetic)
- **2** = Front spring (magnetic)
- **3** = Rear spring (magnetic)
- **4** = Double acting (non magnetic)
- **5** = Front spring (non magnetic)
- **6** = Rear spring (non magnetic)

- **01** = Basic version - female piston rod
- **02** = Basic version - male piston rod
- **03** = Push/pull version - female piston rod
- **04** = Push/pull version - male piston rod
- **05** = Push/pull version - bored male piston rod
- **06** = Push pull version - bored female piston rod
- **07** = Non rotating version
- **08** = Push-pull version with non rotating device on one side - female piston rod
- **09** = Push-pull version with non rotating device on one side - male piston rod

- **1** = C43 chromed piston rod (from Ø12 to Ø25 INOX)
- **2** = Stainless steel rod (from Ø32 to Ø100)

- **6** = ISO (Ø32 - Ø100)
- **7** = ISO HNBR (Ø32 - Ø100)
- **8** = UNITOP (Ø12 - Ø100)
- **9** = UNITOP HNBR (Ø12 - Ø100)

Tandem version




15 .Ø.stroke.(stroke1) .

- **A** = Tandem with opposite rods female thread
- **E** = Tandem with opposite rods male thread
- **L** = Tandem opposite rods with non rotating device on both sides
- **C** = Tandem push with common rods female thread
- **G** = Tandem push with common rods male thread
- **H** = Tandem push with common rods, push-pull version rod female threads
- **N** = Tandem push with common rods with non rotating device
- **D** = Opposed tandem with common rod
- **B** = Tandem push with independent rods female thread
- **F** = Tandem push with independent rods male thread
- **M** = Tandem push with independent rods with non rotating device
- **P** = Tandem push/pull with independent rods - female thread
- **Q** = Tandem push/pull with independent rods - male thread

- **6** = ISO (Ø32 - Ø100)
- **7** = ISO HNBR (Ø32 - Ø100)
- **8** = UNITOP (Ø12 - Ø100)
- **9** = UNITOP HNBR (Ø12 - Ø100)

- **1** = C43 chromed piston rod (from Ø12 to Ø25 INOX)
- **2** = Stainless steel rod (from Ø32 to Ø100)

Standard strokes for single acting

Ø12	10mm max.
from Ø16 to Ø100	25mm max.

Max. suggested strokes

Ø12 and Ø16	100mm
Ø20 and Ø25	200mm
Ø32 and Ø40	300mm
Ø50 and Ø63	400mm
Ø80 and Ø100	500mm

Longer strokes may be utilized if there is no radial loads on piston rod considering there isn't adjustable cushioning system.

Standard strokes for double acting

Ø12 and Ø16	from 5 to 40mm every 5mm
Ø20 and Ø25	from 5 to 50mm every 5mm
Ø32 - Ø100	from 5 to 80mm every 5mm

Max. suggested strokes with antirotating device

from Ø12 to Ø25	40mm
from Ø32 to Ø100	80mm

Bore

Ø12 - Ø16 - Ø20 - Ø25 - Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100

Front and rear flange			Foot	
ISO	UNITOP		ISO	UNITOP
1500.Ø.03F	**1580.Ø.03F**	**1580.Ø.03/1F**	**1500.Ø.05/1F**	**1580.Ø.05/1F**
(from Ø 32 to Ø 100 - steel)	(steel)	(aluminium)	(from Ø 32 to Ø 100 - steel)	(steel)
				

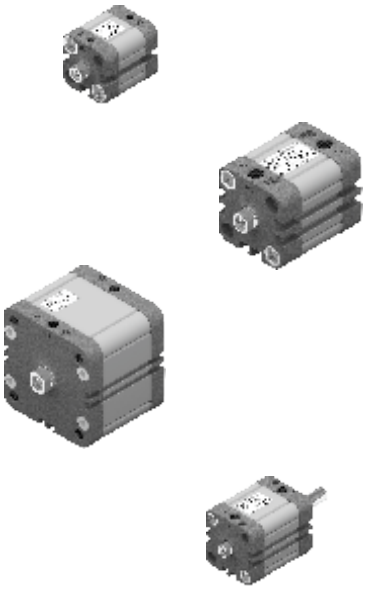
Slot fixing screws	Centering rings	Front female clevis (from Ø 32 to Ø 100)	
		ISO	UNITOP
	1580.Ø.02F	**1500.Ø.08F**	**1580.Ø.11F** **1580.Ø.13F**
	(from Ø 32 to Ø 100)	(aluminium)	(aluminium) (steel)
1500.15F = from Ø32 **1500.16F** = from Ø40 to Ø63 **1500.17F** = from Ø12 to Ø50 **1500.18F** = from Ø80 to Ø100			

Rear male clevis		Rear female clevis			Sensors adapter codes
UNITOP		ISO	UNITOP	UNITOP	1580._, MRS._, MHS._
1580.Ø.09/1F	**1580.Ø.09/2F**	**1500.Ø.09F**	**1580.Ø.10F**	**1580.Ø.12F**	**1380.01F**
(from Ø 12 to Ø 25)	(from Ø 20 to Ø 25)	(from Ø 32 to Ø 100)	(aluminium)	(steel)	
					

CYLINDERS ACCORDING TO STANDARD ISO 21287 ECOMPACT

(series 1500 chapter 4)

Basic and push/pull version



Ordering code

15 _ _.Ø.stroke. _ _ .

- **1** = magnetic piston, Double acting
- **2** = magnetic piston, Single acting with front spring
- **3** = magnetic piston, Single acting with rear spring
- **4** = non magnetic piston, Double acting
- **5** = non magnetic piston, Single acting with front spring
- **6** = non magnetic piston, Single acting with rear spring

**
- **01** = Base, female threaded rod
- **02** = Base, male threaded rod
- **03** = through rod, female threaded rod
- **04** = through rod, male threaded rod
- **05** = through rod, bored female threaded rod
- **06** = through rod, bored male threaded rod
- **07** = With non-rotating device
- **08** = through rod, female threaded rod, with non-rotating device on one side
- **09** = through rod, male threaded rod, with non-rotating device on one side

- **0** = NBR seals and C43 chromed plated rod *
- **1** = NBR seals and stainless steel rod (starting from bore Ø32)
- **4** = PUR seals and C43 chromed plated rod *
- **5** = PUR seals and stainless steel rod (starting from bore Ø32)
- **6** = FPM seals and C43 chromed plated rod *
- **7** = FPM seals and stainless steel rod (starting from bore Ø32)

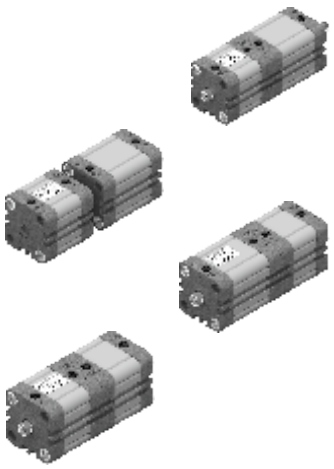
* (Ø20 and Ø25 stainlees steel)

- **4** = Non-cushioned version (mechanical cushioning only)
- **5** = Versions with adjustable end of stroke cushioning system (from Ø25)

** It is possible to order the Ø20, Ø25, Ø32 and Ø40 cylinders with an aluminium piston by replacing the '0' with 'K' in the ordering code.
Example: 1540.20.10.01.1 (Acetyl Resin Piston)
1540.20.10.K1.1 (Aluminium Piston version)

Bore
Ø12 - Ø16 - Ø20 - Ø25 - Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100

TANDEM version (magnetic pistons)



Ordering code

15 _ _ . Ø .stroke. (stroke 1) . _

- **C**= female threaded rod
- **G**= male threaded rod
- **H**= with through rod and female threaded rod
- **R**= with through rod and male threaded rod
- **N**= with non-rotating device

Tandem push with common rods

- **B**= female threaded rod
- **F**= male threaded rod
- **M**= with non-rotating device
- **P**= with through rod and female threaded rod
- **Q**= with through rod and male threaded rod

Tandem push with independent rods

- **D**= **Opposed tandem with common rod**

- **A**= female threaded rod
- **E**= male threaded rod
- **L**= with non-rotating device on both ends

Tandem with opposite rods

- **0** = NBR seals and C43 chromed plated rod *
- **1** = NBR seals and stainless steel rod (starting from bore Ø32)
- **4** = PUR seals and C43 chromed plated rod *
- **5** = PUR seals and stainless steel rod (starting from bore Ø32)
- **6** = FPM seals and C43 chromed plated rod *
- **7** = FPM seals and stainless steel rod (starting from bore Ø32)

* (Ø20 and Ø25 stainless steel)

- **4**= Non-cushioned version (mechanical cushioning only)
- **5**= Versions with adjustable end of stroke cushioning system (from Ø25)

Standard strokes

DOUBLE ACTING BASIC Version & PUSH/PULL ROD
(without cushioning device)
Ø20 and Ø25: from 5 to 200 mm
Ø32 and Ø40: from 5 to 300 mm
Ø50 and Ø63: from 5 to 400 mm
Ø80 and Ø100: from 5 to 500 mm
(with cushioning device)
Ø25: from 25 to 200 mm
Ø32 and Ø40: from 25 to 300 mm
Ø50 and Ø63: from 25 to 400 mm
Ø80 and Ø100: from 25 to 500 mm

DOUBLE ACTING BASIC Version PUSH/PULL ROD BORED
(without cushioning device)
from Ø20 to Ø40: from 5 to 50 mm
Ø50 and Ø63: from 5 to 75 mm
Ø80 and Ø100: from 5 to 80 mm

(with cushioning device)
from Ø25 to Ø40: from 25 to 50 mm
Ø50 and Ø63: from 25 to 75 mm
Ø80 and Ø100: from 25 to 80 mm

DOUBLE ACTING Version WITH NON-ROTATING DEVICE
(without cushioning device)
Ø20 and Ø25: from 5 to 40 mm
from Ø32 to Ø100: from 5 to 80 mm

(with cushioning device)
Ø25: from 25 to 40 mm
from Ø32 to Ø100: from 25 to 80 mm

Bore
Ø20 - Ø25 - Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100

SINGLE ACTING Version
from Ø20 to Ø100: from 5 to 25 mm

Accessories

Rod lock nut	Ball joint	Fork	Fork with clips	Self-aligning joint	Valves direct mounting nut
					
Ø20 - Ø25: **1200.20.06** Ø32 - Ø40: **1320.32.18F** Ø50 - Ø63: **1320.40.18F** Ø80 - Ø100: **1320.50.18F**	Ø20 - Ø25: **1200.20.32F** Ø32 - Ø40: **1320.32.32F** Ø50 - Ø63: **1320.40.32F** Ø80 - Ø100: **1320.50.32F**	Ø20 - Ø25: **1200.20.04** Ø32 - Ø40: **1320.32.13F** Ø50 - Ø63: **1320.40.13F** Ø80 - Ø100: **1320.50.13F**	Ø20 - Ø25: **1200.20.04/1** Ø32 - Ø40: **1320.32.13/1F** Ø50 - Ø63: **1320.40.13/1F** Ø80 - Ø100: **1320.50.13/1F**	Ø20 - Ø25: **1200.20.33F** Ø32 - Ø40: **1320.32.33F** Ø50 - Ø63: **1320.40.33F** Ø80 - Ø100: **1320.50.33F**	**1500.20.F**

Flange (MF2)	Foot (MS1)	Rear female clevis (MP2)	Narrow rear female trunnion (AB6)	Rear male clevis (MP4)	Rear male clevis (with jointed head MP6)
					
Steel Ø20 - Ø25: **1540.Ø.03F** Ø32 - Ø40: **1380.Ø.03F**	Steel **1540.Ø.05/1F**	Aluminium: **1380.Ø.09F** Steel: **1320.Ø.20F**	Aluminium: **1380.Ø.30F** Steel: **1320.Ø.29F**	Aluminium Ø20-Ø25:**1580.Ø.09/1F** Ø32-Ø100:**1380.Ø.09/1F** Steel Ø20-Ø25:**1580.Ø.09/2F** Ø32-Ø100:**1320.Ø.21F**	Aluminium: **1380.Ø.15F** Steel: **1320.Ø.25F**

Square angle trunnion (AB7)	Square angle trunnion (with joined head)	Square angle trunnion (not specified by ISO-VDMA standard)	Square angle trunnion (with joined head)	Standard trunnion (not specified by ISO-VDMA standard)	Complete standard trunnion
					
Aluminium: **1380.Ø.35F** Steel: **1320.Ø.23F**	Steel: **1320.Ø.27F**	Aluminium: **1380.Ø.11F**	Aluminium: **1380.Ø.36F** Steel: **1320.Ø.26F**	Aluminium: **1380.Ø.10F**	Steel: **1320.Ø.22F**

Basic and push/pull version

Ordering code

15 _ _ .Ø. stroke. _ _ . _

- **1** = Double acting, magnetic piston
- **4** = Double acting, non magnetic piston

- **10** = Basic, female threaded rod
- **11** = Basic, male threaded rod
- **12** = through rod, female threaded rod
- **13** = through rod, male threaded rod
- **14** = through rod, bored female threaded rod
- **15** = through rod, bored male threaded rod

** It is possible to order the Ø32 and Ø40 cylinders with an aluminium piston by replacing the '1' with '2' in the ordering code.
Example: 1540.32.10.10.1 (Acetyl Resin Piston)
1540.32.10.20.1 (Aluminium Piston)

- **0** = NBR seals and C43 chromed plated rod
- **1** = NBR seals and stainless steel rod
- **4** = PUR seals and C43 chromed plated rod
- **5** = PUR seals and stainless steel rod
- **6** = FPM seals and C43 chromed plated rod
- **7** = FPM seals and stainless steel rod

- **4** = Non-cushioned version (mechanical cushioning only)
- **5** = Versions with adjustable end of stroke cushioning system

Bore
Ø32 - Ø40 - Ø50 - Ø63

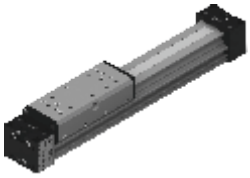
Accessories

Rod lock nut	Ball joint	Fork	Fork with clips	Valves direct mounting nut
				
Ø32: **1320.32.18F** Ø40: **1320.40.18F** Ø50 - Ø63: **1320.50.18F**	Ø32: **1320.32.32F** Ø40: **1320.40.32F** Ø50 - Ø63: **1320.50.32F**	Ø32: **1320.32.13F** Ø40: **1320.40.13F** Ø50 - Ø63: **1320.50.13F**	Ø32: **1320.32.13/1F** Ø40: **1320.40.13/1F** Ø50 - Ø63: **1320.50.13/1F**	**1500.20.F**

Self-aligning joint	Flange (MF2)	Foot (MS1)	Rear female clevis (MP2)	Narrow rear female trunnion (AB6)
				
Ø32: **1320.32.33F** Ø40: **1320.40.33F** Ø50 - Ø63: **1320.50.33F**	Aluminium: **1390.Ø.03FP** Steel: **1380.Ø.03F**	Steel: **1540.Ø.05/1F**	Aluminium: **1380.Ø.09F** Steel: **1320.Ø.20F**	Aluminium: **1380.Ø.30F** Steel: **1320.Ø.29F**

Rear male clevis (MP4)	Rear male clevis (with jointed head MP6)	Square angle trunnion (AB7)	Square angle trunnion (with joined head)
			
Aluminium: **1380.Ø.09/1F** Steel: **1320.Ø.21F**	Aluminium: **1380.Ø.15F** Steel: **1320.Ø.25F**	Aluminium: **1380.Ø.35F** Steel: **1320.Ø.23F**	Steel: **1320.Ø.27F**

Square angle trunnion (not specified by ISO-VDMA standard)	Square angle trunnion (with joined head)	Standard trunnion (not specified by ISO-VDMA standard)	Complete standard trunnion
			
Aluminium: **1380.Ø.11F**	Aluminium: **1380.Ø.36F** Steel: **1320.Ø.26F**	Aluminium: **1380.Ø.10F**	Aluminium: **1380.Ø.22F** Steel: **1320.Ø.22F**

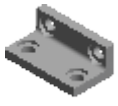
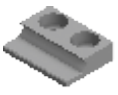
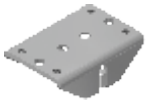
	Ordering code
Rodless cylinders version 	**1605.Ø.stroke. _ _ . _ _** **01.M** = Basic version **02.M** = Single feed cylinder left head **03.M** = Single feed cylinder right head **01.MG** = Cylinder with linear control unit (for Ø 25, Ø 32, Ø 40 and max stroke m. 3) **01.MH** = Cylinder with sliding shoes guide (for Ø 25, Ø 32, Ø 40) **Max strokes 6 meters** **Bore**: Ø25 - Ø32 - Ø40 - Ø50 - Ø63
Rodless cylinders Ø16 	**1605.16.stroke.01.MH** Possibility of a single feed cylinder head **1605.16.stroke.02.MH** = left end cap-side connection **1605.16.stroke.03.MH** = right end cap-side connection **1605.16.stroke.04.MH** = left end cap-rear connection **1605.16.stroke.05.MH** = right end cap-rear connection **1605.16.stroke.06.MH** = left end cap-bottom connection **1605.16.stroke.07.MH** = right end cap-bottom connection **Max strokes 2,5 meters**

Accessories

Mounting foot brackets	Intermediate support	Oscillating hinge
1600.Ø.01F	**1600.Ø.02F**	**1600.Ø.03F**
from Ø 25 to Ø 32  from Ø 40 to Ø 63 	from Ø 25 to Ø 63 	from Ø 25 to Ø 63 

Sensor brackets codes 1600._, SRS._, SHS._	Sensor brackets codes 1580._, MRS._, MHS._	Sliding shoes guide
1600.A	**1600.B**	**1600.Ø.05F**
		Ø 25, Ø 32 and Ø 40 

Accessories rodless cylinders Ø16

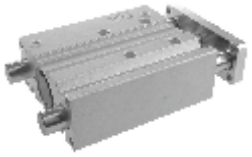
Mounting foot brackets	Intermediate support	Oscillating hinge
1600.16.01F	**1600.16.02F**	**1600.16.03F**
		

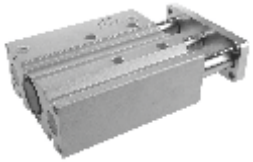
	Ordering code
Cable cylinders version 	**1601.Ø.stroke** **1601.Ø.stroke.M (magnetic)** **Bore**: Ø16 and Ø25

5 - Manipulation

Ordering code

Self lubricating bronze bushes Bearing bushes





6100.Ø.stroke. _ .

- 12
- 16
- 20
- 25
- 32
- 40
- 50
- 63

- Side supply ports closed
- **L** = Top supply ports closed

- **B** = Control unit with Bronze bush
- **C** = Control unit with Bearing bush

Standard strokes
Bore Ø12 and Ø16: 10-20-30-40-50-75-100
Bore Ø20 and Ø25: 20-30-40-50-75-100-125-150-175-200 mm
Bore Ø32 and Ø63: 25-50-75-100-125-150-175-200 mm

Heavy duty Guided short stroke cylinder

6101.80.stroke. B .

- Side supply ports closed
- **L** = Top supply ports closed

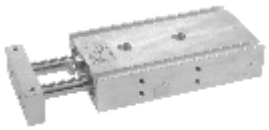
Standard strokes
Bore Ø80: 25-50-75-100-125-150-175-200

PNEUMATIC SLIDE UNITS

(series 6200-6210, chapter 5)

Ordering code

Twin rod slide units



6200.Ø.stroke.

- 10
- 15
- 20
- 25
- 32

- **B** = Control unit with Bronze bush
- **C** = Control unit with Bearing bush

Standard strokes
Bore Ø10: 10-15-20-25-30-35-40-45-50-60-70-75 mm
Bore Ø15 and Ø32: 10-15-20-25-30-35-40-45-50-60-70-75-80-90-100 mm

Push/pull twin rod slide units

6210.Ø.stroke.

- 10
- 15
- 25

- **C** = Fixed body
- **P** = Fixed end plates

Standard strokes
Bore Ø10: 25-50-75-100 mm
Bore Ø15 and Ø25: 25-50-75-100-125-150-175-200 mm

Ordering code

Angular grippers
Standard version

6301.Ø.

- **10**
- **16**
- **20**
- **25**

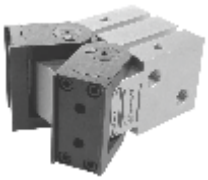
- **D** = Double acting
- **S** = Single acting (N.O.)

Angular grippers
180° angular version

6302.Ø.D

- **10**
- **16**
- **20**
- **25**

Angular grippers
180° angular version
Rack & pinion style



6303.Ø.D

- **F** = Fingers, end fixing
- **L** = Fingers, side fixing

- **20**
- **25**
- **32**
- **40**
- **50**

Parallel style pneumatic grippers
Standard version

6310.Ø.

- **10**
- **16**
- **20**
- **25**

- **D** = Double acting
- **NC** = Single acting (N.C.)
- **NO** = Single acting (N.O.)

Parallel style pneumatic grippers
Wide opening version

6311.Ø.D.

- **10**
- **16**
- **20**
- **25**
- **32**
- **40**

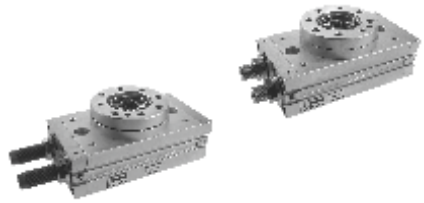
Ordering code indication	Stroke					
	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200
	Ø10	**Ø16**	**Ø20**	**Ø25**	**Ø32**	**Ø40**
	Bore					

Angular grippers
3 Fingers parallel style pneumatic

6312.Ø.D

- **16**
- **20**
- **25**
- **32**
- **40**
- **50**
- **63**
- **80**
- **100**
- **125**

Double rack Rotary actuators with turn table



Ordering code

6400. _ . _

- **10** (piston Ø15)
- **30** (piston Ø20)
- **50** (piston Ø25)
- **100** (piston Ø32)
- **200** (piston Ø40)

- **A** = Standard
- **R** = Cushioning (hydraulic damper)

Single rack Rotary actuators

6411.Ø. _

- **50**
- **63**
- **80**
- **100**

- **90** = rotation 90°
- **180** = rotation 180°

VANE TYPE ROTARY ACTUATORS
(series 6420, chapter 5)

Vane type rotary actuators

Ordering code

6420.Ø. _ . _

- **Ø10**
- **Ø15**
- **Ø20**
- **Ø30**
- **Ø40**
- **Ø50**
- **Ø63**
- **Ø80**
- **Ø100**

- **90** = 90°
- **180** = 180°
- **270** = 270°

Version
- / = Without angle-rotation regulation device, and without sensor support
- **R** = With angle-rotation regulation device
- **S** = With sensor supports
- **T** = With angle-rotation regulation device and sensor supports

ARBITRARY MOUNT CYLINDERS
(series 6500, chapter 5)

Arbitrary mount cylinders

Ordering code

6500.Ø.stroke. 1 . _

- **10**
- **16**
- **20**
- **25**

- = no magnetic
- **M** = magnetic

Standard strokes
Bore Ø10 and Ø16: 5-10-15-20-25-30
Bore Ø20 and Ø25: 5-10-15-20-25-30-40-50

6 - Sensors

	To be used on	Ordering code	
Sensors with connector (REED type)		**1500.A.C.**	sensor for alternating current with led
		1500.D.C.	sensor for continuous current with led
		1500.U	universal sensor with led
		1500.U/1	universal sensor without led (REED ampulla only)
		**RS.UA**	universal sensor with led normally open N.O.
		RS.UANO	universal sensor with led normally open N.O. acc. to standard IEC 947
		RS.UA/1	magnetic sensor without LED universal N.O.
		RS.UA/1L	magnetic sensor with led N.O., for series assembly (3 wires)
		RS.UC	magnetic sensor with LED universal N.C.
		RS.DC	magnetic sensor for continuous current with led N.O.
		RS.DCNO	magnetic sensor for continuous current with led N.O. according to standard IEC 947
		RS.DCC1	sensor for DC current N.O. with LED and 2,5 mtr cable
	**cylinders and microcylinders**	**RS.UAC1**	magnetic sensor with led N.O. with connector and 2,5 m. cable
		RS.UAC1/1	magnetic sensor without led N.O. with connector and 2,5 m cable (REED ampulla only)
		RS.UACH1/1L	magnetic sensor with led N.O. with connector and 2,5 m. cable for series mounting (3 wires)
		RS.UCC1	magnetic sensor with led N.C. with connector and 2,5 m. cable
		RS8.DC	sensor for DC current N.O. with LED and M8 plug
		RS8.UA	universal sensor N.O. with LED and M8 plug
		RS8.UC	universal sensor NC with LED and M8 plug
		C1	connector with 2,5 m. cable connector
		C2	connector with 5 m. cable connector
		C3	connector with 10 m. cable connectort
		C1NO	connector with 2,5 m. cable, according to standard IEC 947
		C2NO	connector with 5 m. cable, according to standard IEC 947
		C3NO	connector with 10 m. cable, according to standard IEC 947
		1600.A.C.	magnetic sensor with LED AC - N.O. - 2 m. cable
		1600.D.C.	magnetic sensor with LED DC - N.O. - 2 m. cable
		1600.U	magnetic sensor universal with LED universal - N.O. - 2 m. cable
		1600.U/1	magnetic sensor without LED universal - N.O. - 2 m. cable
		**SRS.UA**	magnetic sensor with LED universal N.O.
		SRS.UA/1	magnetic sensor without LED universal N.O.
		SRS.UA/1L	magnetic sensor with LED universal N.O. for series assembly (3 wires)
		SRS.UC	magnetic sensor with LED universal N.C.
		SRS.DC	magnetic sensor for continuous current with LED N.O.
	**rodless cylinders**	**SRS.UAC1**	magnetic sensor with LED universal N.O. - 2,5 m. cable connector
		SRS.UAC1/1	magnetic sensor without LED universal N.O. - 2,5 m. cable connector
		SRS.UACH1/1L**	magnetic sensor with led universal N.O. with connector, 2,5 m. cable, for series assembly (3 wires)
		SRS.UCC1	magnetic sensor with LED universal N.C. 2,5 m. cable connector
		SRS.DCC1	sensor for continuous current with LED N.O. with connector and 2,5 m. cable
		SRS8.DC	sensor for DC current N.O. With LED and M8 plug
		SRS8.UA	universal sensor N.O. with LED and M8 plug
		SRS8.UC	universal sensor NC with LED and M8 plug
		C1	connector with 2,5 m. cable connector
		C2	connector with 5 m. cable connector
		C3	connector with 10 m. cable connectort

	To be used on	Ordering code	
Sensors with connector (REED type)	cylinders and microcylinders	**1580.U**	Ampulla Reed sensors, with led, Universal, N.O. cable 2 wires l=2,5mt.
		1580.UAP	PNP Ampulla Reed sensors, with led, Universal, N.O. 3 wire cable L=2,5mt.
		MRS.U	Ampulla Reed sensors, with led, Universal, N.O. 2 wire cable l=300mm M8 connector.
		MRS.UAP	PNP Ampulla Reed sensors, with led, Universal, N.O. 3 wire cable L=300mm. M8 connector.
		1581.U	Ampulla Reed sensors, with led, Universal, N.O. and cable 2 wires l=2,5m
		TRS.U	Ampulla Reed sensors, with led, Universal, N.O. and cable 2 wires l=100mm M8 connector.
		1583.DC*	Ampulla Reed sensors, with led, DC, N.O. and cable 2 wires l=2m
		1590.U	Ampulla Reed sensors, with led, Universal, N.O. cable 2 wires l=2,5mt.
		1590.UAP	PNP Ampulla Reed sensors, with led, Universal, N.O. 3 wire cable L=2,5mt.
		LRS.U	Ampulla Reed sensors, with led, Universal, N.O. and cable 2 wires l=300mm M8 connector.
		LRS.UAP	PNP Ampulla Reed sensors, with led, Universal, N.O. 3 wire cable L=300mm. M8 connector.
		MC1	cable 2 wires l=2,5m with M8 connector
		MC2	cable 2 wires l=5m with M8 connector
		MC3	cable 2 wires l=10m with M8 connector
		MCH1	cable 3 wires l=2,5m with M8 connector
		MCH2	cable 3 wires l=5m with M8 connector
		MCH3	cable 3 wires l=10m with M8 connector
Sensor HALL effect	cylinders and microcylinders	**1500.HAP**	magnetic sensor with LED Hall effect PNP - N.O. - 3m. cable
		1500.HAN	magnetic sensor with LED Hall effect NPN - N.O. - 3m. cable
		HS.PA	magnetic sensor with LED Hall effect PNP - N.O.
		HS.PAC1	magnetic sensor with LED Hall effect PNP - N.O. + 2,5 m. cable connector
		HS8.NA	NPN Hall effect sensor N.O. with LED and M8 plug
		HS8.PA	PNP Hall effect sensor N.O. with LED and M8 plug
		CH1	connector with 2,5 m. cable (3 wires)
		CH2	connector with 5 m. cable (3 wires)
		CH3	connector with 10 m. cable (3 wires)
	rodless cylinders	**1600.HAP**	magnetic sensor with LED Hall effect PNP - N.O. - 3m. cable
		1600.HAN	magnetic sensor with LED Hall effect NPN - N.O. - 3m. cable
		SHS.PA	magnetic sensor with LED Hall effect PNP - N.O.
		SHS.PAC1	mag. sensor with LED Hall effect PNP - N.O. + 2,5 m. cable con.
		SHS8.NA	NPN Hall effect sensor N.O. with LED and M8 plug
		SHS8.PA	PNP Hall effect sensor N.O. with LED and M8 plug
		CH1	connector with 2,5 m. cable (3 wires)
		CH2	connector with 5 m. cable (3 wires)
		CH3	connector with 10 m. cable (3 wires)
	cylinders and microcylinders	**1580.HAP**	PNP Hall effect sensors, with led, DC, N.O. cable 3 wires l=2,5mt.
		1580.HAN	NPN Hall effect sensors, with led, DC, N.O. cable 3 wires l=2,5mt.
		MHS.P	PNP sensor Hall effect with led DC, N.O. cable 3 wires l=300mm, M8 connector.
		1581.HAP	PNP Hall effect sensors, with led, DC, N.O. and cable 3 wires l=2,5m
		THS.P	PNP Hall effect sensors, with led, DC, N.O. cable 3 wires l=100mm and M8 connector.
		1583.HAP*	PNP Hall effect sensors, with led, N.O. and cable 3 wires l=3 m.
		THR.P* /	PNP Hall effect sensors, with led, N.O. and cable 3 wires l=100mm and M8 connector.
		1590.HAP	PNP Hall effect sensors, with led, DC, N.O. cable 3 wires l=2,5mt.
		LHS.P	PNP sensor Hall effect with led DC, N.O. cable 3 wires l=300mm M8 connector.
		MC1	cable 2 wires l=2,5m with M8 connector
		MC2	cable 2 wires l=5m with M8 connector
		MC3	cable 2 wires l=10m with M8 connector
		MCH1	cable 3 wires l=2,5m with M8 connector
		MCH2	cable 3 wires l=5m with M8 connector
		MCH3	cable 3 wires l=10m with M8 connector

* only for Van type rotary actuators

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info@hipel.com.tr
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UCRAINE
UKRTECHTRONIC LLC.
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Tel. +38 044 500 98 48
sales@techtronic.com.ua
www.techtronic.com.ua

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Szele-Tech Bt.
Gvadányi u. 33-39. I. em. 108., 1141, Budapest
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info@szele-tech.hu
www.szele-tech.hu

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561, rue Edouard, J2G 3Z5, Granby
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contact@mscorpion.com
www.manufacturescorpion.com

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Calle Volcán Popocatépetl 1844, Colli Urbano
45070, Zapopan, Jalisco
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Pneumax Automation LLC
128 Durkee Lane, 28034, Dallas NC
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info@pneumax.us
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CENTRAL AMERICA

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Avenida 3era 13-30 El Rosario Ofibodegas
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PYASA Proyectos y Automatización S.A.
Plaza Maranhao, local 7, Reparto Los Robles, o
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CHILE
Schultz Automatización e Ingeniería Ltda
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jschultz@schultzautomatizacion.cl
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COLOMBIA
Megatronic S.A.S.
Carrera 37 n. 61-59, 080012, Barranquilla
Tel. +57 (5) 3401616
ventas@megatronic.co
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WEF Perù S.A.C
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OCEANIA

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Automation Equipment Ltd
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Tel. +64 7 8490281
sales@autoequip.co.nz
www.autoequip.co.nz

Slide cylinders

Ordering code

6600.Ø.stroke. _ . _

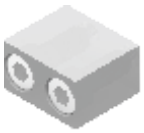
- **8**
- **12**
- **16**
- **20**
- **25**

- _ _ = Without accessories
- A = Duoble regolation end stroke
- AU = Regolation front end stroke
- AR = Regolation rear end stroke
- D = Double shock absorber
- DU = Front shock absorber
- DR = Rear shock absorber

Standard strokes

Bore Ø8 Ø12 Ø16 Ø20 Ø25
10-20-30-40-50-75

Accessories series 6600

Shock absorber mounting block front stroke adjusting screw	Reference block	Shock absorber mounting block rear stroke adjusting screw	Adjusting screw
6600.Ø.SU	6600.Ø.SI	6600.Ø.SR	6600.Ø.VR
			

Guide cylinders

Ordering code

6700.Ø.stroke

- **10**
- **16**
- **20**

Standard strokes

Bore Ø10 Ø16 Ø20
5-10-20-30-40-50-60

Dampers

Ordering code

6900._

- A = Thread M8x1
- B = Thread M10x1
- C = Thread M14x1,5
- D = Thread M20x1,5
- E = Thread M27x1,5

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