



PNEUMAX

SALES PROGRAM

COMPONENTS FOR INDUSTRIAL AUTOMATION



PNEUMAX

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.



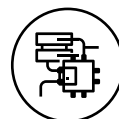


The ability to provide various technologies and solutions for each of our clients applications is the main objective of the Company, making **Pneumax** the ideal strategic partner.

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**

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Pneumatic Technology



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Safety

Pneumax reserves the right to modify the dimensions or technical characteristics of any of its products contained within this catalogue without prior notice

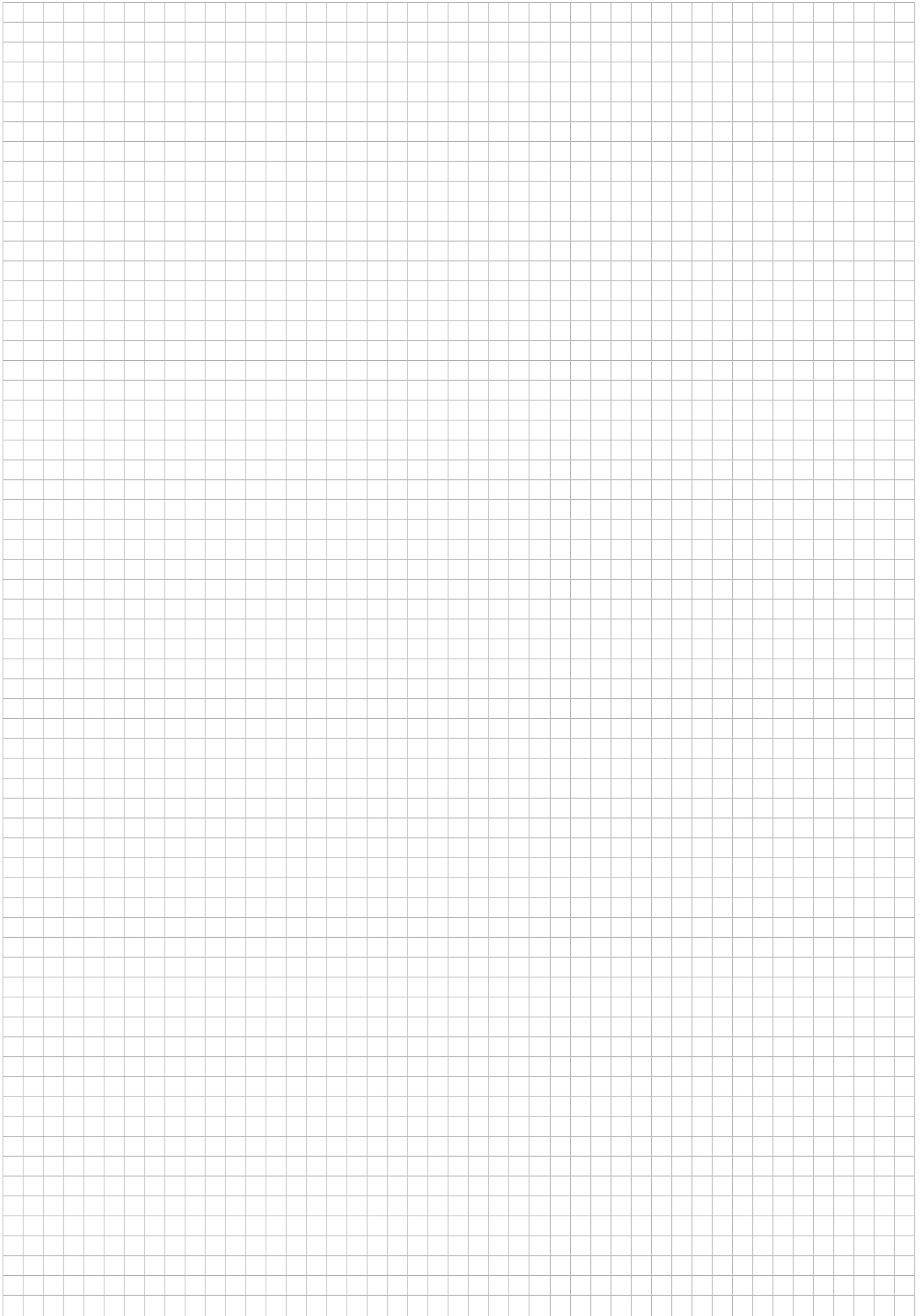
The products included in this catalogue should only be used in applications for which they were originally intended and should only be used by personnel with adequate technical knowledge. PLEASE NOTE: That the misuse of this product could cause serious injury. The user should ensure that the product 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



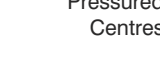
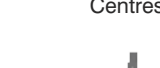
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	Symbol	Description	Code	Operating force	Max. pressure	Flow at 6 bar, Δp=1	Orifice size					
Tube ø4 2/2 		Tappet - spring, lateral connection N.C.	104.22.0.1.LC	13 N	10 bar	90 NI/min	mm 2,5					
		Tappet - spring, lateral connection N.O.	104.22.0.1.LA									
		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 connection N.O.	104.22.6.28.LA									
		Key switch, rear connection N.C.	104.22.6.28.PC									
		Key switch, rear connection 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, $\Delta p=1$	Orifice size
		Switch 2 pos. short lever lateral conn. N.C.	104.22.6.30.LC	/	10 bar	90 NI/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				
		Tappet - spring lateral connection N.C.	104.32.0.1.LC	13 N	10 bar	90 NI/min	mm 2,5
		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	10 bar	90 NI/min	mm 2,5
		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	9 N	10 bar	90 NI/min	mm 2,5
		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	18 N	10 bar	90 NI/min	mm 2,5
		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	90 NI/min	mm 2,5
		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	18 N	10 bar	90 NI/min	mm 2,5
		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	18 N	10 bar	90 NI/min	mm 2,5
		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 NI/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	/	10 bar	90 NI/min	mm 2,5
		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 NI/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				
         		Pushbutton - spring lateral connection	104.52.6.22/* .L	30N	10 bar	90 NI/min	mm 2,5
		Pushbutton - spring rear connection	104.52.6.22/* .P				
		Pushbutton 2 pos. lateral connection	104.52.6.31.L				
		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				
		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	32N	10 bar	90 NI/min	mm 2,5
		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				
		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				
         		Switch long lever 3 pos. instable lat. connec.	104.53.33.6.27.0.L	/	10 bar	90 NI/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, $\Delta p=1$	Orifice size
5/3 Pressured Centres		Switch short lever 3 pos. stable lateral conn.	104.53.33.6.30.1.L	/	10 bar	90 NI/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				

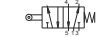
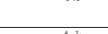
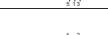
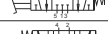
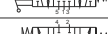
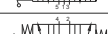
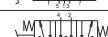
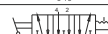
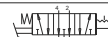
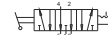
* 1 = Red 2 = Black 3 = Green 4 = Yellow

				Operating force	Working pressure	Flow at 6 bar, Δp=1	Orifice size
M5              							

* 1 = Red 2 = Black 3 = Green

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

		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	10 bar	540 NI/min	mm 6			
			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	15 N						
			Lever plastic roller spring	228.32.2.1							
			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							
			Lever roller unidirectional spring	228.32.3.1/2	/						
			Lever roller lateral bidirect. spring	228.32.4.1							
			Lever sensitive differential	228.32.4.13							
			Lever panel Ø 30 2-positions	228.32.5/*							
			Lever front 2-positions	228.32.55/*	33 N						
			Push button Ø 30 spring	228.32.6.1/*							
			Sensitive push button Ø 30 diff.	228.32.6.13/*	33 N						
			Push button spring	228.32.6.22/**							
			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	33 N						
			Palm push button Ø 30 spring	228.32.7.1/*							
			Push button spring	228.32.8.1/*	10 N						
			Push button 2-positions	228.32.8/*							
			Lever lateral spring	228.32.9.1/*	/						
			Lever lateral 2 positions	228.32.9/*							
5/2		Tappet spring	228.52.0.1	33 N	10 bar	540 NI/min	mm 6				
		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	15 N							
		Pedal spring(miniat.stainless spool)	228.52.10.1PX								
		Pedal protected 2 positions	228.52.10/1								
		Lever plastic roller spring	228.52.2.1	/							
		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 NI/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 2 positions	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 NI/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	10 bar	620 NI/min	mm 6
			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/*	15 N			
			Lever roller unidirectional spring	T228.32.3.1				
			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			
			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/*	15 N			
			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 NI/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 NI/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 NI/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	71,5 N						
		Push button spring	224.52.8.1								
		Lever lateral spring	224.52.9.1/*								
		Lever lateral 2 positions	224.52.9.2	/	10 bar	1020 NI/min	mm 7				
		Lever lateral with bloc. dev. 2 pos.	224.52.9/*	/	10 bar	1360 NI/min	mm 8				
	5/3		Pedal 3 positions C.C	224.53.31.10	/	10 bar	1280 NI/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 NI/min	mm 7				
		Lev. lat. bloc. dev.-spring 3 pos. C.C.	224.53.31.9/*	/	10 bar	1280 NI/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 NI/min	mm 7				
		Lev. lat. bloc. dev.-spring 3 pos. O.C.	224.53.32.9/*	/	10 bar	1280 NI/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, $\Delta p=1$	Orifice size
G 1/4"	3/2		Push button - Spring	T224.32.8.1	/	10 bar	1050 NI/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 NI/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 NI/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 NI/min	mm 15
			Lever lateral - Spring	212.32.9.1			
	5/2		Lever lateral - 2 positions	212.52.9	10 bar	3500 NI/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 NI/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 NI/min	mm 20
			Lever lateral - Spring	211.32.9.1			
	5/2		Lever lateral - 2 positions	211.52.9	10 bar	6500 NI/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 NI/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 NI/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			
M5	3/2		Pneumatic - Spring	105.32.11.1	2,5-10 bar	120 NI/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		

					Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size	
	Symbol	Description	Code					
M5 Compact 	3/2		Pneumatic - Spring	805.32.11.1	2-10 bar	160NI/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			

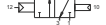
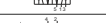
PNEUMATIC ACTUATED VALVES

(series 200, chapter 1)

					Min. & Max. Working pressure	Flow at 6 bar, Δp=1	Orifice size	
		Symbol	Description	Code				
G 1/8"	3/2		Pneumatic - Spring	228.32.11.1	2,5-10 bar	540 NI/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				
	5/2		Amplified pneumatic - Spring	228.32.13.1	0,5-10 bar			
			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	2-10 bar			
		Pneumatic - Pneumatic	228.52.11.11					
		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 NI/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 NI/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				10 bar
			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	10 bar	410 NI/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	620NI/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	410NI/min	
			Pneumatic - Pneumatic - O.C.	T488.53.32.11.11			
			Pneumatic - Pneumatic - P.C.	T488.53.33.11.11			

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

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

PNEUMATIC ACTUATED VALVES
(series 224, chapter 1)

				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 NI/min	mm 8	
			Pneumatic - Differential external	224.32.11.12				
			Pneumatic - Pneumatic	224.32.11.11				
	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				
	5/3		Pneumatic - Pneumatic - C.C.	224.53.31.11.11	3-10 bar	1280 NI/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 NI/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	T224.52.11.12			
			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 NI/min		
			Pneumatic - Pneumatic 3 positions	T224.53.32.11.11				
			Pneumatic - Pneumatic 3 positions	T224.53.33.11.11				

PNEUMATIC ACTUATED VALVES
(series 212, chapter 1)

		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	3500NI/min	mm 15
			Pneumatic - Differential	212.32.11.12			
			Pneumatic - Pneumatic	212.32.11.11			
	5/2		Pneumatic - Spring	212.52.11.1	2,5-10 bar		
			Pneumatic - Differential	212.52.11.12			
			Pneumatic - Pneumatic	212.52.11.11			
	5/3		Pneumatic - Pneumatic - C.C.	212.53.31.11.11	3-10 bar	3000NI/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	3600NI/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	3300NI/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	6500NI/min	mm 20	
			Pneumatic - Differential	211.32.11.12	2-10 bar			
			Pneumatic - Pneumatic	211.32.11.11				
	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				

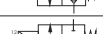
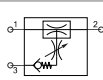
ACCESSORIES

(series 600, chapter 1)

		Symbol	Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	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			

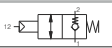
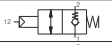
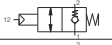
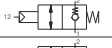
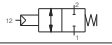
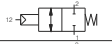
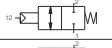
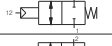
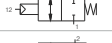
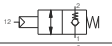
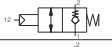
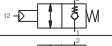
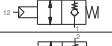
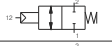
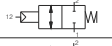
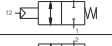
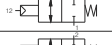
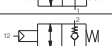
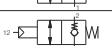
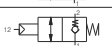
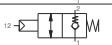
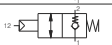
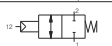
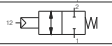
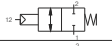
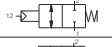
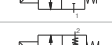
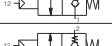
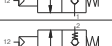
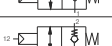
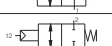
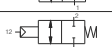
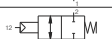
		Symbol	Description	Code	Forza di azionam.	Working pressure	Flow at 6 bar, Δp=1	Orifice size
Flow control valve 	M5		Unidirectional connection in line	6.01.05	/	10 bar	/	mm 2
			Bidirectional connection in line	6.01.05/2				
			Unidirectional connection at 90°	6.01.05.90				
			Bidirectional connection 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 NI/min	/	
		G 1/8"	6.02.18			480 NI/min		
		G 1/4"	6.02.14			960 NI/min		
		G 1/2"	6.02.12			3300 NI/min		
In line quick exhaust valves 		M5, M5 inlet connection	6.02.M5.M5L	/	10 bar	90 NI/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			110 NI/min		
		M7, ø4 tube inlet connection	6.02.04.M7L					
		G1/8", ø4 tube inlet connection	6.02.04.18L					
		M5, ø6 tube inlet connection	6.02.06.M5L			90 NI/min		
		M7, ø6 tube inlet connection	6.02.06.M7L					
		G1/8", ø6 tube inlet connection	6.02.06.18L					
		Ø4, ø4 inlet connection	6.02.04.04.L			110 NI/min		
		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					

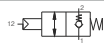
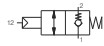
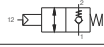
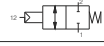
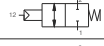
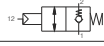
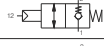
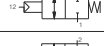
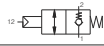
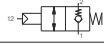
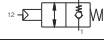
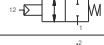
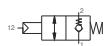
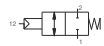
	Symbol	Description	Code	Operating force	Working pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
Exhaust flow control 		M5	6.03.05	/	/	/	/
		G 1/8"	6.03.18				
		G 1/4"	6.03.14				
		G 1/2"	6.03.12				
Shuttle valve  		M5	6.04.05	/	10 bar	110 NI/min	/
		G 1/4" OR	6.04.18			700 NI/min	
		G 1/8"	6.04.14			2200 NI/min	
		M5 AND	6.04.05/1			100 NI/min	
		G 1/8" AND	6.04.18/1			480 NI/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 NI/min	/
		Poppet NBR G 1/8"	6.07.18			650 NI/min	
		Poppet NBR G 1/8" reduced	6.07.18R			100 NI/min	
		Poppet NBR G 1/4"	6.07.14			1150 NI/min	
		Poppet NBR G 3/8"	6.07.38			2600 NI/min	
		Poppet NBR G 1/2"	6.07.12			3500 NI/min	
		Poppet FPM G 1/8"	6.07.18V			650 NI/min	
		Poppet FPM G 1/8" reduced	6.07.18VR			100 NI/min	
		Poppet FPM G 1/4"	6.07.014V			1150 NI/min	
		Poppet FPM G 3/8"	6.07.38V			2600 NI/min	
		Poppet FPM G 1/2"	6.07.12V			3500 NI/min	

	Symbol	Description	Code	Operating force	Min. & Max. Working pressure	Flow at 6 bar, $\Delta p=1$	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 NI/min	mm 7
		 Bidirectional	6.09.14.BN				
	G 1/2"	 Unidirectional	6.09.12.UN	/	4-10 bar	2000 NI/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 NI/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 NI/min	mm 2,5
	N.C. 60 seconds	900.18.3-60		4-10 bar		
	N.O. 30 seconds	900.18.4				
	N.O. 60 seconds	900.18.4-60				
Two hands safety valve G1/4" 	G 1/4"	900.52.1.1	/	10 bar	1030 NI/min	mm 7
Two hands safety valves 	Type III A (accor. to EN 574 standard)	900.18.9	/	3-8 bar	40 NI/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	900.52.1.3	/	10 bar	540 NI/min	mm 6
	Electric command with M2 mechanic	900.52.1.4				
	Electric command with M3P CNOMO	900.52.1.5				
Oscillator valve 	Without "NOT" logic elements	900.52.5	/	2-8 bar	540 NI/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 NI/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 NI/min	mm 6
High-low pressure device 	Including pneumatic control	900.18.8P	/	10 bar	650 NI/min	/
	Including M2 mechanic	900.18.8E				

					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 NI/min	450 NI/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 NI/min	800 NI/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 NI/min	1600 NI/min	
			Metal banjo Ø8	500838U				
			Metal banjo Ø10	501038U				
			Metal banjo Ø12	501238U				
			Metal banjo G3/8"	503838U				
Bidirectional 			Banjo only	50A38U				
			Metal banjo Ø6	500638B				
			Metal banjo Ø8	500838B				
			Metal banjo Ø10	501038B				
			Metal banjo Ø12	501238B				
Unidirectional 	G1/2"		Metal banjo Ø12	501212U	0,5-10 bar	1300 NI/min	2600 NI/min	
			Metal banjo Ø14	501412U				
			Metal banjo G1/2"	50G1212U				
			Banjo only	50A12U				
		Bidirectional 						Metal banjo Ø12
	Metal banjo Ø14			501412B				
	Metal banjo G1/2"			50G1212B				
	Banjo only			50A12B				

					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 NI/min	450 NI/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 NI/min	800 NI/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 NI/min	1600 NI/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 NI/min	2600 NI/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, $\Delta p=1$	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 NI/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 NI/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 NI/min	/
		Bidirectional blocking valve	551.132.A.B.XX				
		Unidirectional 90° blocking valve	551.231.A.B.XX	/	0,5-10 bar	285 NI/min	/
		Bidirectional 90° blocking valve	551.232.A.B.XX				
		Circuit selector valve - OR	551.141.A.B.C	/	10 bar	600 NI/min	/
		Circuit selector valve - AND	551.151.A.B.C	/	10 bar	550 NI/min	/
		Quick exhaust valve	551.161.A.B.XX	/	10 bar	250 NI/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 NI/min	/
		Soft start valve 90°	551.281.A.B.XX	/	0,2-10 bar	650 NI/min	/
		Unidirectional blocking valve + Unidirectional flow control valve	551.1F1.A.B.XX	/	0,5-10 bar	285 NI/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 NI/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 NI/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 NI/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. Indic. (0-2 bar)	551.2H2.A.B.XX	/	8 bar	/	/
		90° pres. regulat. + pres. Indic. (0-4 bar)	551.2H4.A.B.XX				
		90° pres. regulat. + pres. Indic. (0-8 bar)	551.2H8.A.B.XX				

CONNECTIONS LIST "A" - "B" :

00 = None
D4 = Straight 04
D6 = Straight 06

D8 = Straight 08
L1 = Female banjo G1/8"
G4 = Rotating banjo 04

G6 = Rotating banjo 06
G8 = Rotating banjo 08
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 cartridge	Ø8 straight cartridge
551KD4	551KD6	551KD8
		

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

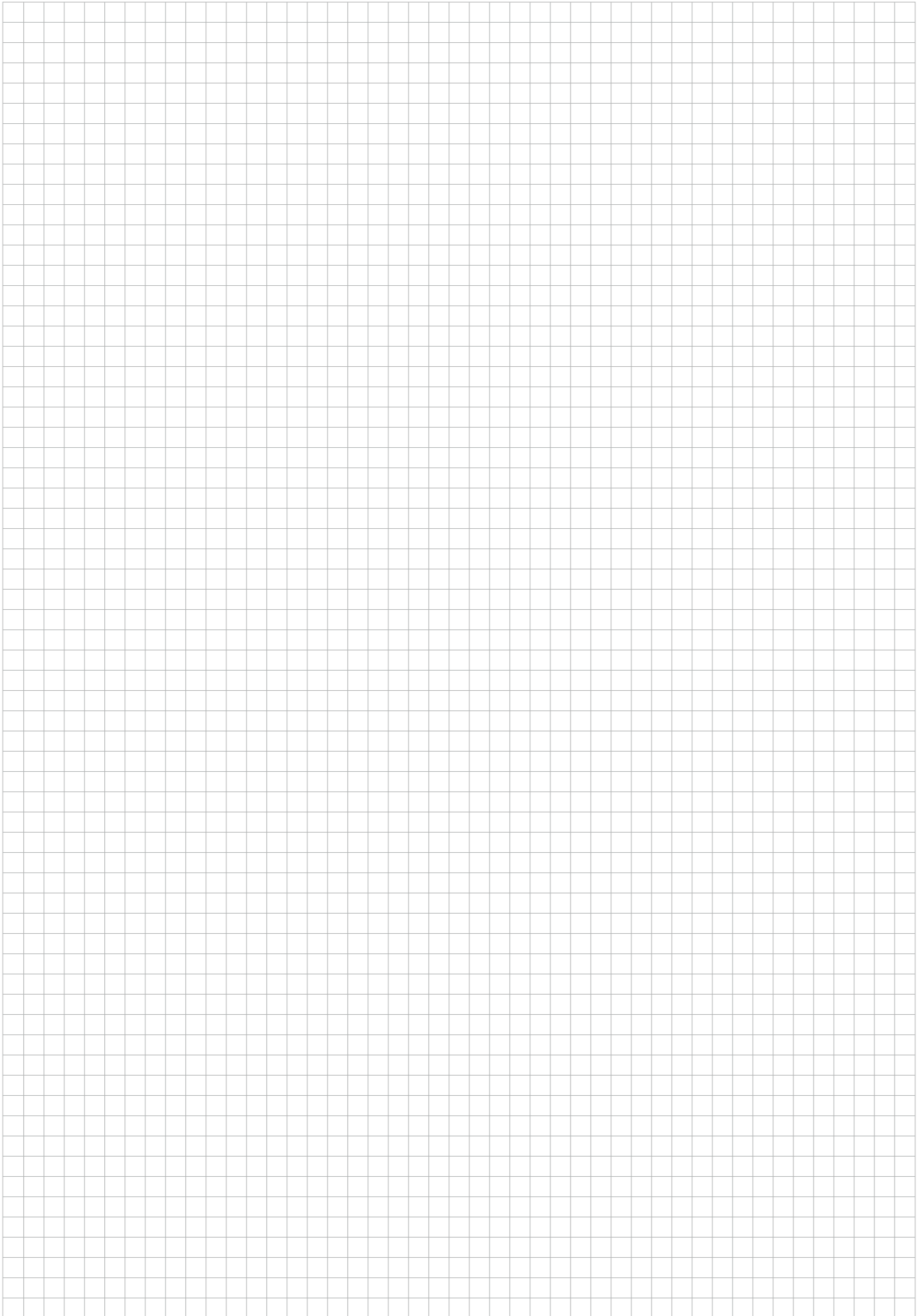
G 1/8" banjo female cartridge	G 1/8" male straight cartridge	G 1/4" male straight cartridge
551KL1	551KM1	551KM2
		

G 1/8" female straight cartridge	Connection for multiple function
551KF1	551KUU
	

	Code	Wall fixing screws	Assembly positions	Flow at 6 bar, $\Delta p=1$	Working pressure	Temperature
	17522AA . . C = 0 ÷ 8 bar B = 0 ÷ 4 bar (adjusting range) A = 0 ÷ 2 bar 4 = Tube Ø4 mm (inlet connection) 6 = Tube Ø6 mm	/	Indifferent	120 NI/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 NI/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 NI/min		

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

	Code	Wall fixing screws	Assembly positions	Flow at 6 bar, $\Delta p=1$	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

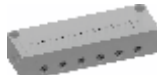


Microsolenoid valves, series 300.....	1
Microsolenoid valves according to  series 300	12
Solenoid valves, series 800 - M5	16
Solenoid valves, series 468	16
Solenoid valves, series 488	16
Solenoid valves TECNO-ECO , series 488	17
Solenoid valves, series 800 - G1/8"	17
Solenoid valves ECO22 , series 888	18
Solenoid valves, series 464	18
Solenoid valves TECNO-ECO , series 400	19
Solenoid valves, series 400	19
Valves and solenoid valves poppet system for compressed air and vacuum, series 700	20
Valves and solenoid valves poppet system for compressed air and vacuum series T700 - T771	21
Valves and solenoid valves poppet system for compressed air and vacuum, series N776	23
Pad valves, series 700	23
Valves and solenoid valves, series 500	24
Valves and solenoid valves ISO 5599/1, series 1000	24
Valves and solenoid valves ISO 5599/1 with M12 connector, series 1000	26
Valves and solenoid valves LINE - FLAT - BASE size 10 mm, series 2100	27
Valves and solenoid valves LINE - FLAT - VDMA size 18 mm, series 2400	29
valves and solenoid valves LINE - FLAT - VDMA size 26 mm, series 2600	37
Valves and solenoid valves ISO 15407-2, series 2700	41
Valves and solenoid valves ENOVA , series 2300	43
Valves and solenoid valves OPTYMA-S , series 2200	45
Valves and solenoid valves OPTYMA-F , series 2500	47
Valves and solenoid valves OPTYMA-T , series 2500	49

	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 NI/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 ★			
15 mm 3/2 N.C. 		24 VDC	90° connector with led	N371.1	0 - 7 bar	14 NI/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 ★			
15 mm 3/2 N.O. 		24 VDC	90° connector with led	N381.1	0 - 7 bar	14 NI/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 ★			

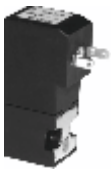
The 10mm and 15mm solenoid valves are certified by UL in compliance with both Canadian and USA safety requirements as recognized component and included in the **UL file E206325** and bear the "UL Recognized Component" marking. The 10mm and 15mm solenoid valves, since they are devices for "class 2 circuits", 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 **CE** 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	0 - 7 bar	14 NI/min	mm 0,7				
			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	24 NI/min	mm 1,1
				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 NI/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							
	      <td rowspan="8"></td> <td rowspan="8">24 VDC (SPEED-UP)</td> <td>Connector with cable L = 300 mm</td> <td>371.300</td> <td rowspan="8">/</td> <td rowspan="8">/</td> <td rowspan="8">/</td>		24 VDC (SPEED-UP)	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 **CE** Directive does not apply to these versions

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

* = The c  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 NI/min.	mm 1,1
					N339.2B	0 - 7 bar	50 NI/min.	mm 1,5
				Faston	N339.0A	0 - 10 bar	30 NI/min.	mm 1,1
					N339.0B	0 - 7 bar	50 NI/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N339.1A	0 - 10 bar	30 NI/min.	mm 1,1
					N339.1B	0 - 7 bar	50 NI/min.	mm 1,5
			24 VDC 1 W	Faston	N339.0E *	0 - 10 bar	18 NI/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 NI/min.	mm 1,1
					N349.2B	0 - 5 bar	50 NI/min.	mm 1,5
				Faston	N349.0A	0 - 8 bar	30 NI/min.	mm 1,1
					N349.0B	0 - 5 bar	50 NI/min.	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	N349.1A	0 - 8 bar	30 NI/min.	mm 1,1
					N349.1B	0 - 5 bar	50 NI/min.	mm 1,5
			24 VDC 1 W	Faston	N349.0E *	0 - 10 bar	18 NI/min.	mm 0,8
				Faston EN 17301-803(ex DIN 43650)	N349.1E *			

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

2

SOLENOID VALVES

	Description	Code	Working Pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
Accessories 	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

	Code
15 mm solenoid valves manifold with electric multipoint connection 	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 35M . NW . . 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 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.

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

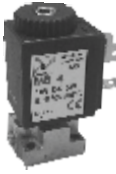
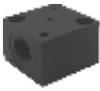


Symbol	Description	Code	Working Pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
	Mechanic N.C.	M2	0 - 10 bar	53 NI/min.	1,3 mm
	Mechanic N.C. threaded lock nut	M2P			
	Mechanic N.O.	M2/1			
	Mechanic N.C. (2 W 24 VDC)	M2/9	0 - 10 bar	20 NI/min.	0,9 mm
	Mechanic 3/2 N.O.	MM7	0 - 10 bar	53 NI/min.	1,3 mm
	Direct current	Coil 24DC (8 Watt)	/	/	/
	Alternate current 50 Hz	Coil 24VDC			
		Coil 48VDC			
		Coil 110V			
		Coil 230V			
	Alternate current 60 Hz	Coil 24V			
		Coil 110V			
		Coil 230V			
	Alternate current 50-60 Hz	Coil 24V			
		Coil 110V			
		Coil 230V			
	Direct current	Coil 12VDC			
		Coil 24VDC			
		Coil 48VDC			
		Coil 24VDC (2 Watt)			
	Alternate current 50 Hz	Coil 24V			
		Coil 48V			
		Coil 110V			
		Coil 230V			
	Alternate current 60 Hz	Coil 24V			
		Coil 110V			
		Coil 230V			
	Alternate current 50-60 Hz	Coil 24V			
		Coil 110V			
		Coil 230V			

* Use only with M2/9

2

SOLENOID VALVES

	Symbol	Description	Code	Working Pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
  	3/2 N.C.	Alternate current Low consumption 50-60 Hz	Microsolenoid 24 V MB 66	/	/	/
			Microsolenoid 110 V MB 67			
			Microsolenoid 230 V MB 68			
		Direct current	Microsolenoid valve 12 VDC M2.4	0 - 10 bar	53 NI/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 NI/min	mm 0,9
		Alternate current 50 Hz	Microsolenoid valve 24 V M2.17	0 - 10 bar	53 NI/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			
		Direct current	Microsolenoid valve 12 VDC M2/1.4	0 - 10 bar	53 NI/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 NI/min	mm 0,9
		Alternate current 50 Hz	Microsolenoid valve 24 V M2/1.17	0 - 10 bar	53 NI/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 NI/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 NI/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 NI/min	mm 1,3
			Mechanic M5	355.M1/1			
			Mechanic- quick fitting for tube Ø4	345.M1/1			
			Microsolenoid 12 VDC	MB4	/	/	/
			Microsolenoid 24 VDC	MB5			
			Microsolenoid 48 VDC	MB6			
			Microsolenoid 24 VDC (2 Watt)	MB9			
			Microsolenoid 24 V	MB17			
			Microsolenoid 48 V	MB21			
			Microsolenoid 110 V	MB22			
			Microsolenoid 230 V	MB24			
			Microsolenoid 24 V	MB37			
			Microsolenoid 110 V	MB39			
			Microsolenoid 230 V	MB41			
			Microsolenoid 24 V	MB56			
			Microsolenoid 110 V	MB57			
			Microsolenoid 230 V	MB58			
			Microsolenoid 24 VDC (8 Watt)	MB10/1			
			Microsolenoid 24 V	MB17/1			
			Microsolenoid 24 V	MB21/1			
			Microsolenoid 48 V	MB21/1			
			Microsolenoid 110 V	MB22/1			
			Microsolenoid 230 V	MB24/1			
			Microsolenoid 24 V	MB37/1			
			Microsolenoid 110 V	MB39/1			
			Microsolenoid 230 V	MB41/1			
			Microsolenoid 24 V	MB56/1			
			Microsolenoid 110 V	MB57/1			
			Microsolenoid 230 V	MB58/1			
			Microsolenoid 24 V	MB66			
			Microsolenoid 110 V	MB67			
			Microsolenoid 230 V	MB68			
G 1/8"	3/2 N.C.		Microsolenoid valve 12 VDC	305.M4	0 - 10 bar	53 NI/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 NI/min	mm 1,1
			Microsolenoid valve 24 V	305.M17	0 - 10 bar	53 NI/min	mm 1,3
			Microsolenoid valve 48 V	305.M21			
			Microsolenoid valve 110 V	305.M22			
			Microsolenoid valve 230 V	305.M24			
			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 NI/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					
		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 NI/min	mm 1,3		
			Microsolenoid valve 24 VDC	355.M5					
			Microsolenoid valve 48 VDC	355.M6					
			Microsol. valve 24 VDC (2 Watt)	355.M9					
		Alternate current 50 Hz	Microsolenoid valve 24 V	355.M17	0 - 10 bar	53 NI/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 NI/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 NI/min	mm 1,1
			Alternate current 50 Hz	Microsolenoid valve 24 V	345.M17			
				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	0 - 10 bar	53 NI/min	mm 1,3
			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 NI/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 NI/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 NI/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			

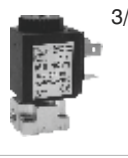
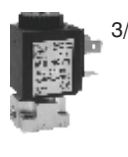
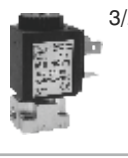
		Symbol		Description	Code	Working Pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
32 mm	3/2 N.C.		Direct current	Solenoid valve 6 VDC	S2	0 - 10 bar	80 NI/min.	mm 1,8
				Solenoid valve 12 VDC	S4			
				Solenoid valve 24 VDC	S5			
				Solenoid valve 48 VDC	S6			
			Alternate current 50 Hz	Solenoid valve 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 NI/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 NI/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	mm 1,1
					UN331.2B	0 - 7 bar	mm 1,5
				Faston	UN331.0A	0 - 10 bar	mm 1,1
					UN331.0B	0 - 7 bar	mm 1,5
			24 VDC	Faston EN 17301-803 (ex DIN 43650)	UN331.1A	0 - 10 bar	mm 1,1
					UN331.1B	0 - 7 bar	mm 1,5
			12 VDC	Faston	UN332.0A	0 - 10 bar	mm 1,1
					UN332.0B	0 - 7 bar	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN332.1A	0 - 10 bar	mm 1,1
					UN332.1B	0 - 7 bar	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, $\Delta p=1$	Orifice size
15 mm	3/2 N.C.		24V 50-60 Hz	Faston	UN335.0A	0 - 10 bar	30 NI/min	mm 1,1
					UN335.0B	0 - 7 bar	50 NI/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN335.1A	0 - 10 bar	30 NI/min	mm 1,1
					UN335.1B	0 - 7 bar	50 NI/min	mm 1,5
			110V 50-60 Hz	Faston	UN336.0A	0 - 10 bar	30 NI/min	mm 1,1
					UN336.0B	0 - 7 bar	50 NI/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN336.1A	0 - 10 bar	30 NI/min	mm 1,1
					UN336.1B	0 - 7 bar	50 NI/min	mm 1,5
			230V 50-60 Hz	Faston	UN337.0A	0 - 10 bar	30 NI/min	mm 1,1
					UN337.0B	0 - 7 bar	50 NI/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN337.1A	0 - 10 bar	30 NI/min	mm 1,1
					UN337.1B	0 - 7 bar	50 NI/min	mm 1,5
	3/2 N.O.		24 VDC	Cables (300 mm)	UN341.2A	0 - 8 bar	30 NI/min	mm 1,1
					UN341.2B	0 - 5 bar	50 NI/min	mm 1,5
				Faston	UN341.0A	0 - 8 bar	30 NI/min	mm 1,1
					UN341.0B	0 - 5 bar	50 NI/min	mm 1,5
			12 VDC	Faston	UN342.0A	0 - 8 bar	30 NI/min	mm 1,1
					UN342.0B	0 - 5 bar	50 NI/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN342.1A	0 - 8 bar	30 NI/min	mm 1,1
					UN342.1B	0 - 5 bar	50 NI/min	mm 1,5
			24V 50-60 Hz	Faston	UN345.0A	0 - 8 bar	30 NI/min	mm 1,1
					UN345.0B	0 - 5 bar	50 NI/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN345.1A	0 - 8 bar	30 NI/min	mm 1,1
					UN345.1B	0 - 5 bar	50 NI/min	mm 1,5
			110V 50-60 Hz	Faston	UN346.0A	0 - 8 bar	30NI/min	mm 1,1
					UN346.0B	0 - 5 bar	50 NI/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN346.1A	0 - 8 bar	30 NI/min	mm 1,1
					UN346.1B	0 - 5 bar	50 NI/min	mm 1,5
			230V 50-60 Hz	Faston	UN347.0A	0 - 8 bar	30 NI/min	mm 1,1
					UN347.0B	0 - 5 bar	50 NI/min	mm 1,5
				Faston EN 17301-803 (ex DIN 43650)	UN347.1A	0 - 8 bar	30 NI/min	mm 1,1
					UN347.1B	0 - 5 bar	50 NI/min	mm 1,5

		Symbol		Description	Code	Max. pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
  22 mm Modular 	3/2 N.C.		Alternate current 50-60 Hz	Microsolenoid valve 24 V	UM2.56	0 - 10 bar	53 NI/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			
	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			
				Coil 24 V	UMB56/1			
			Alternate current 50-60 Hz	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 NI/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 NI/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 NI/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			

2

SOLENOID VALVES

	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 NI/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 NI/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 NI/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, $\Delta p=1$	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

					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	160NI/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. microsolonoid with Faston and 1.1 orifice.

SOLENOID VALVES
(series 468, chapter 2)

					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	540NI/min	mm 6
			Solenoid - Differential	468.32.0.12.M2			
			Solenoid - Solenoid	468.32.0.0.M2			
	5/2		Solenoid - Spring	468.52.0.1.M2	2,5-10 bar	410NI/min	mm 6
			Solenoid - Differential	468.52.0.12.M2			
			Solenoid - Solenoid	468.52.0.0.M2			
	5/3		Solenoid - Solenoid - C.C.	468.53.31.0.0.M2	3-10 bar	410NI/min	mm 6
			Solenoid - Solenoid - O.C.	468.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	468.53.33.0.0.M2			
  	3/2		Solenoid - Spring	468/1.32.0.1.M2	2,5-10 bar	540NI/min	mm 6
			Solenoid - Differential	468/1.32.0.12.M2			
			Solenoid - Solenoid	468/1.32.0.0.M2			
	5/2		Solenoid - Spring	468/1.52.0.1.M2	2,5-10 bar	410NI/min	mm 6
			Solenoid - Differential	468/1.52.0.12.M2			
			Solenoid - Solenoid	468/1.52.0.0.M2			
	5/3		Solenoid - Solenoid - C.C.	468/1.53.31.0.0.M2	3-10 bar	410NI/min	mm 6
			Solenoid - Solenoid - O.C.	468/1.53.32.0.0.M2			
			Solenoid - Solenoid - P.C.	468/1.53.33.0.0.M2			

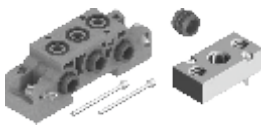
SOLENOID VALVES
(series 468, Chapter 2)

		symbol	Description	Code	Min. & Max. Working pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
G 1/8"	3/2		Solenoid - Spring	488.32.0.1.*	2,5-10 bar	620NI/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	410NI/min	mm 6
			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	410NI/min	mm 6
			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)

				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	620NI/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.*					
	5/2		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.*	2-10 bar				
			Solenoid - Differential (external feeding)	T488.52.0.12E.*					
	5/3		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	410NI/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.*	/	/	/	
				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 jonng bases (50 pcs.)	T488.34					
			Washer for screw for jonng bases (50 pcs.)	T488.35					
			O-ring seal (50 pcs.)	T488.36					

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

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

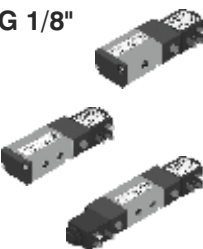
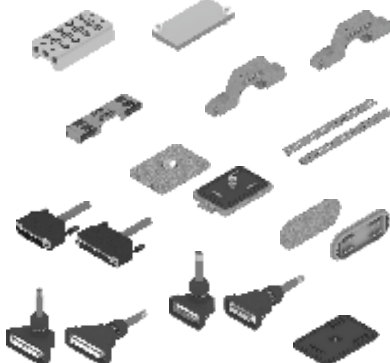
VALVES AND SOLENOID VALVES

(series 800, chapter 2)

		Symbol	Description	Code	Working Pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
G 1/8" Compact     	3/2		Solenoid - Spring	808.32.0.1._*	10 bar	520NI/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)	888X.32.A.39*	2-8 bar	790 NI/min	5,8 mm
			Solenoid - Spring (self-feeding)	888X.32.C.39*			
			Solenoid - Solenoid	888X.32.00.35*			
	5/2		Solenoid - Spring (self-feeding)	888X.52.00.39*	2,5-8 bar	440 NI/min	
			Solenoid - Solenoid	888X.52.00.35*			
	5/3		Solenoid - Solenoid - C.C.	888X.53.31.35*			
		Solenoid - Solenoid - O.C.	888X.53.32.35*				
		Solenoid - Solenoid - P.C.	888X.53.33.35*				
G 1/4" 	3/2		Solenoid - Spring (self-feeding)	8884.32.A.39*	2-8 bar	890 NI/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*	2,5-8 bar	540 NI/min	
			Solenoid - Solenoid	8884.52.00.35*			
	5/3		Solenoid - Solenoid - C.C.	8884.53.31.35*			
			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 ** Number positions: *** Number positions: **** Connector : ** *** Cable lenght :
F56 = 24 V (50-60 Hz) From 02 to 10, 04 = 4 positions 12 = 12 positions 25 = 25 poles 03 = 3 meters 10 = 10 meters
F57 = 110 V (50-60 Hz) 12 and 16 08 = 8 positions 16 = 16 positions 37 = 37 poles 05 = 5 meters
F58 = 230 V (50-60 Hz) *** Type : ** *** Cable lenght : ** *** Connector :
F00 = without spool 00 = Left side 03 = 3 meters 10 = 10 meters 10 = In line
X : 0 = Self-feeding 01 = Right side 05 = 5 meters 90 = 90° Angle
E = External feeding

SOLENOID VALVES
(series 464, chapter 2)

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

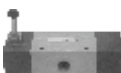
		Symbol	Description	Code	Working Pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
G 1/4"     	3/2		Solenoid - Spring (self feeding)	T424.32.0.1*	10 bar	1050NI/min	mm 8,5
			Solenoid - Spring (external feeding)	T424.32.0.1.E.*			
			Solenoid - Differential (self feeding)	T424.32.12.*			
			Solenoid - 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.*	10 bar	900NI/min	
			Solenoid - Solenoid (external feeding)	T424.53.31.0.0.E.*			
			Solenoid - Solenoid (self feeding)	T424.53.32.0.0.*			
			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)

					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	3500NI/min	mm 15	
			Solenoid - Differential	452.32.0.12.M2				
			Solenoid - Solenoid	452.32.0.0.M2				
	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				
	5/3		Solenoid - Solenoid - C.C.	452.53.31.0.0.M2	3-10 bar			3000NI/min
			Solenoid - Solenoid - O.C.	452.53.32.0.0.M2				
			Solenoid - Solenoid - P.C.	452.53.33.0.0.M2				
  	3/2		Solenoid - Spring	452/1.32.0.1.M2	2,5-10 bar	3500NI/min	mm 15	
			Solenoid - Differential	452/1.32.0.12.M2	2-10 bar			
			Solenoid - Solenoid	452/1.32.0.0.M2	2,5-10 bar			
	5/2		Solenoid - Spring	452/1.52.0.1.M2	2-10 bar			
			Solenoid - Differential	452/1.52.0.12.M2				
			Solenoid - Solenoid	452/1.52.0.0.M2				
	5/3		Solenoid - Solenoid - C.C.	452/1.53.31.0.0.M2	3-10 bar			3000NI/min
			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	3600NI/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			
	5/2		Solenoid - Solenoid	412/2.32.0.0.C.M2		3300NI/min	
			Solenoid - Solenoid	412/2.32.0.0.A.M2			
			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			
	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	6500NI/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	1800NI/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	4800NI/min	
			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	/	/	mm 15
			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			

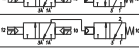
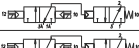
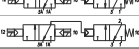
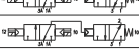
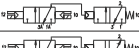
		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G3/4" 	air		Pneumatic - Spring N.C.	773.32.11.1C	10 bar	7300NI/min	mm 20
			Solenoid - Spring, internal pilot N.C.	773.32.0.1AC.M2			
			Solenoid - Spring, external pilot N.C.	773.32.0.1C.M2			
	vacuum		Pneumatic - Spring N.O.	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	12500NI/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.32.0.1C.M2					
G 1 1/2" 	air		Pneumatic - Spring N.C.	776.22.11C	10 bar	33500NI/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*			
	vacuum		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*			
			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, $\Delta p=1$	Orifice size
G 1/2" for compressed air 	Internal Pilot		Pneumatic - Spring N.C.	T772.32.11.1	10 bar	4100NI/min	mm 15
			Pneumatic - Spring N.O.				
	Servoassisted external Pilot		Solenoid - Spring N.C.	T772.32.0.1AC.MP			
			Solenoid - Spring N.O.	T772.32.0.1AA.MP			
	Internal Pilot with quick exhaust		Solenoid - Spring N.C.	T772.32.0.1.MP			
			Solenoid - Spring N.O.				
	Servoassisted external 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 	Internal Pilot		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/V.S.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	7500NI/min	mm 20	
		Pneumatic - Spring N.O.					
		Solenoid - Spring N.C.	T773.32.0.1AC.MP				
		Solenoid - Spring N.O.	T773.32.0.1AA.MP				
		Solenoid - Spring N.C.	T773.32.0.1.MP				
		Solenoid - Spring N.O.					
		Solenoid - Spring N.C.	T773S.32.0.1AC.MP				
		Solenoid - Spring N.O.	T773S.32.0.1AA.MP				
		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.					
		Solenoid - Spring N.O.	T773/V.32.0.1AA.MV				
		Solenoid - Spring N.C.	T773/V.32.0.1AC.MV				
		Solenoid - Spring N.O.	T773/V.32.0.1.MP				
		Solenoid - Spring N.C.					
		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	4100NI/min		
		Bistable version N.O.					
		Bistable version N.C.	T772S.32.0.1BP				
		Bistable version N.O.					
		Bistable version N.C.	T773.32.0.1BP	10 bar	7500NI/min		mm 15
		Bistable version N.O.					
		Bistable version N.C.	T773S.32.0.1BP				
		Bistable version N.O.					
	Bistable version N.C.	T772V.32.0.1BP	/	/			
	Bistable version N.O.						
	Bistable version N.C.	T772VS.32.0.1BP					
	Bistable version N.O.						
	Bistable version N.C.	T773V.32.0.1BP					
	Bistable version N.O.						
	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	12500NI/min	mm 25	
		Pneumatic - Spring N.O.					
		Solenoid - Spring N.C.	T771.32.0.1AC.MP				
		Solenoid - Spring N.O.	T771.32.0.1AA.MP				
		Solenoid - Spring N.C.	T771.32.0.1.MP				
		Solenoid - Spring N.O.					
		Solenoid - Spring N.C.	T771S.32.0.1AC.MP				
		Solenoid - Spring N.O.	T771S.32.0.1AA.MP				
		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.					
		Solenoid - Spring N.O.	T771/V.32.0.1AA.MV				
		Solenoid - Spring N.C.	T771/V.32.0.1AC.MV				
		Solenoid - Spring N.O.	T771/V.32.0.1.MP				
		Solenoid - Spring N.C.					
	Solenoid - Spring N.O.	T771/VS.32.0.1.MP					
	Solenoid - Spring N.C.						

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

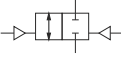
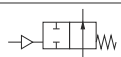
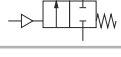
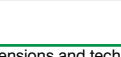
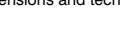
VALVES AND SOLENOID VALVES POPPET SYSTEM FOR COMPRESSED AIR AND VACUUM

(series N776, chapter 2)

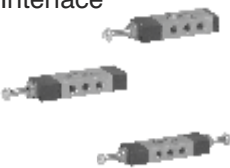
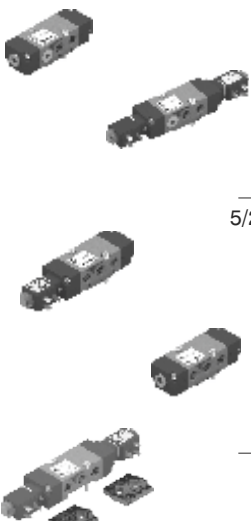
		Symbol	Description	Code	Working Pressure	Flow at 6 bar, Δp=1	Orifice size
G 1 1/2" for compressed air	2/2		Solenoid - Spring Internal pilot N.C.	N776.22.0.1AC.M3R	10 bar	33500NI/min	mm 38
			Solenoid - Spring External pilot N.C.	N776.22.0.1C.M3R			
			Pneumatic - Spring	N776.22.11.1C			
	3/2		Solenoid - 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 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, $\Delta p=1$	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.*.**			

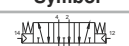
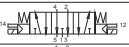
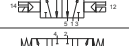
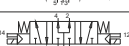
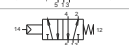
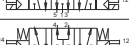
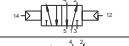
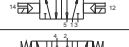
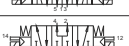
* Connections : A = G 1/4" E = G 1" ** Seals : N = NBR
B = G 3/8" F = G 1 1/4" V = FPM
C = G 1/2" G = G 1 1/2" F = PTFE
D = G 3/4" H = G 2"

				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	1030NI/min	mm 7	
			Solenoid - Differential	514/N.32.0.12.M2				
			Solenoid - Solenoid	514/N.32.0.0.M2				
	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	1100NI/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	10 bar			
			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	1100NI/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, $\Delta p=1$	Orifice size
Size 1 	5/2		Pneumatic - Spring	1001.52.1.9	10 bar	840NI/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	10 bar	720NI/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	900NI/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	900NI/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	1700NI/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	1600NI/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	3600NI/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		3000NI/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, $\Delta p=1$	Orifice size
Inlet blocks	size 1	Size 1	1101.09	/	/	/
		Universal	1101.10			
		Aligned connections	1101.11			
		Top connections	1101.12			
		Bottom connections	1101.13			
	size 2	Universal	1102.10			
		Aligned connections	1102.11			
		Top connections	1102.12			
		Bottom connections	1102.13			
	size 3	Aligned connections	1103.11			
Modular bases with side and bottom connections	size 1	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			

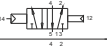
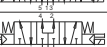
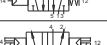
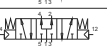
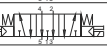
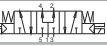
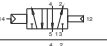
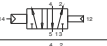
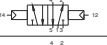
** = Code for 30 mm Solenoid valve

SOLENOID VALVES ISO 5599/1 COMPLETE WITH M12 CONNECTOR

(series 1000 M12, chapter 2)

		Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
Size 1	5/2	Solenoid - Solenoid	1111.52.3.5.*	10 bar	900NI/min	
		Solenoid - Differential	1111.52.3.6.*			
		Solenoid - Spring	1111.52.3.9.*			
	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.*	10 bar	1600NI/min	/
		Solenoid - Differential	1112.52.3.6.*			
		Solenoid - Spring	1112.52.3.9.*			
	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.*	10 bar	3600NI/min	
		Solenoid - Differential	1113.52.3.6.*			
		Solenoid - Spring	1113.52.3.9.*			
	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, $\Delta p=1$	Orifice size
M5 LINE   	5/2		Pneumatic - Differential	2115.52.00.16	7 bar	150NI/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	130NI/min	
			Pneumatic - Pneumatic O.C.	2115.53.32.18.*	7 bar	140NI/min	
			Pneumatic - Pneumatic P.C.	2115.53.33.18.*	7 bar	180NI/min	
			Solenoid - Solenoid C.C.	2115.53.31.35.*	7 bar	130NI/min	
			Solenoid - Solenoid O.C.	2115.53.32.35.*	7 bar	140NI/min	
			Solenoid - Solenoid P.C.	2115.53.33.35.*	7 bar	180NI/min	
M5 FLAT   	5/2		Pneumatic - Differential	2135.52.00.16	7 bar	150NI/min	mm 2,5
			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	130NI/min	
			Pneumatic - Pneumatic O.C.	2135.53.32.18.*	7 bar	140NI/min	
			Pneumatic - Pneumatic P.C.	2135.53.33.18.*	7 bar	180NI/min	
			Solenoid - Solenoid C.C.	2135.53.31.35.*	7 bar	130NI/min	
			Solenoid - Solenoid O.C.	2135.53.32.35.*	7 bar	140NI/min	
			Solenoid - Solenoid P.C.	2135.53.33.35.*	7 bar	180NI/min	
BASE   	5/2		Pneumatic - Differential	2141.52.00.16	7 bar	150NI/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	130NI/min	
			Pneumatic - Pneumatic O.C.	2141.53.32.18.*	7 bar	140NI/min	
			Pneumatic - Pneumatic P.C.	2141.53.33.18.*	7 bar	180NI/min	
			Solenoid - Solenoid C.C.	2141.53.31.35.*	7 bar	130NI/min	
			Solenoid - Solenoid O.C.	2141.53.32.35.*	7 bar	140NI/min	
			Solenoid - Solenoid P.C.	2141.53.33.35.*	7 bar	180NI/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

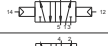
92 = 24 VDC for integral electrical conn. downward not for LINE series

		Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
Accessories	           	Modular base for FLAT	2130.01	/	/	/
		Modular base for BASE without cartridge	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 cartridge 4 mm tube	2100.031M			
		Modular base cartridge M5	2100.033M			
		Modular base cartridge M7x1	2100.034M			
		Modular base cartridge lock	2100.035M			
		Modular base cartridge 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			

		Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	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, $\Delta p=1$	Orifice size
G 1/8" LINE	5/2		Pneumatic - Differential	2415.52.00.16	10 bar	800NI/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

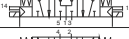
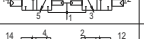
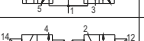
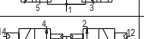
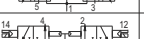
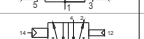
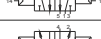
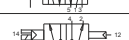
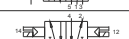
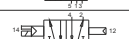
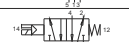
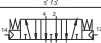
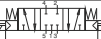
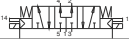
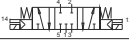
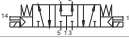
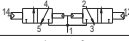
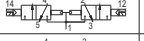
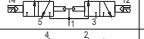
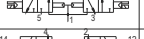
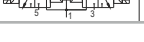
15 = 24 VAC Downward

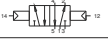
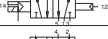
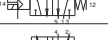
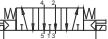
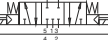
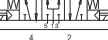
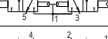
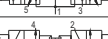
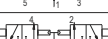
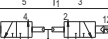
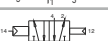
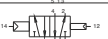
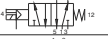
16 = 110 VAC Downward

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	650NI/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	450NI/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	800NI/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	900NI/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	650NI/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	450NI/min		
			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, $\Delta p=1$	Orifice size
Tube Ø6 LINE	5/2		Pneumatic - Differential	2416.52.00.16	10 bar	800NI/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	650NI/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	450NI/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	800NI/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

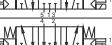
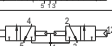
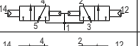
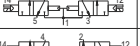
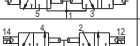
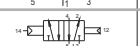
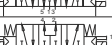
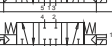
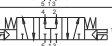
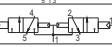
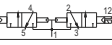
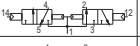
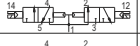
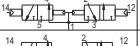
15 = 24 VAC Downward

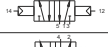
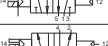
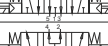
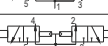
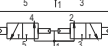
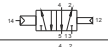
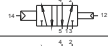
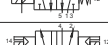
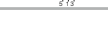
16 = 110 VAC Downward

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	650NI/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	450NI/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	800NI/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	650NI/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		450NI/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, $\Delta p=1$	Orifice size
G 1/4" FLAT	5/2		Pneumatic - Differential	2431.52.00.16	10 bar	800NI/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	650NI/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	450NI/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	800NI/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.*			

* = 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

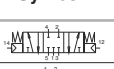
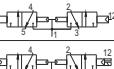
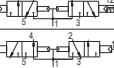
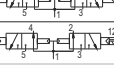
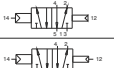
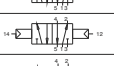
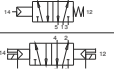
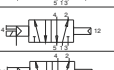
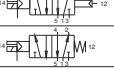
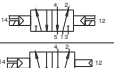
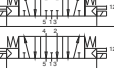
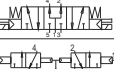
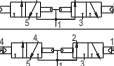
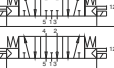
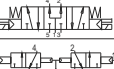
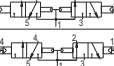
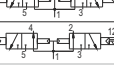
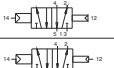
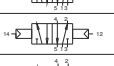
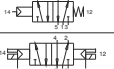
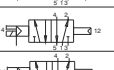
15 = 24 VAC Downward

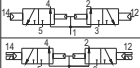
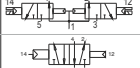
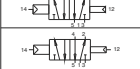
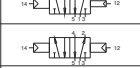
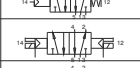
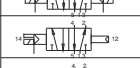
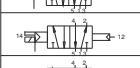
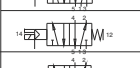
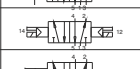
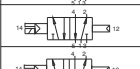
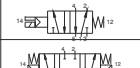
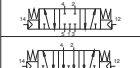
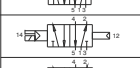
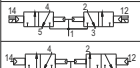
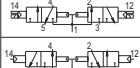
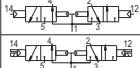
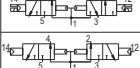
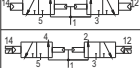
16 = 110 VAC Downward

17 = 230 VAC Downward

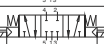
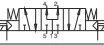
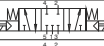
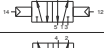
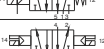
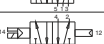
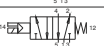
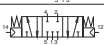
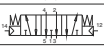
18 = 24 VDC 1 W Downward

19 = 24 VDC Earth faston Downward

		Symbol	Description	Code	Working pressure	Flow at 6 bar, Δp=1	Orifice size			
Tube Ø6 FLAT 	5/3		Pneumatic - Pneumatic C.C.	2436.53.31.18.*	10 bar	650NI/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	450NI/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	800NI/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	450NI/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, $\Delta p=1$	Orifice size
VDMA Electropilot exhaust on pilot	2X3/2		Pneum.-Pneum. 2x3/2 N.O. - N.O. (=5/3 P.C.)	2438.62.55.18.*	10 bar	450NI/min	mm 7
			Solenoid-Solenoid 2x3/2 N.O. - N.O. (=5/3 P.C.)	2438.62.55.35.*			
	5/2		Pneumatic - Differential	2445.52.00.16	10 bar	550NI/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.*			
	5/3		Solenoid - Differential external	2445.52.00.37.*			
			Solenoid - Spring	2445.52.00.39.*			
			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	550NI/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	450NI/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.*			
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			

		Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	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			
Accessories 	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			
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	1500NI/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	1350NI/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	1500NI/min	mm 9
			Pneumatic - Pneumatic external	2611.52.00.17			
			Pneumatic - Pneumatic	2611.52.00.18			
			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	1350NI/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

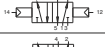
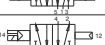
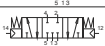
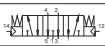
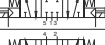
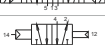
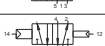
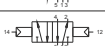
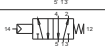
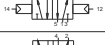
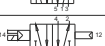
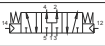
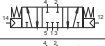
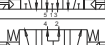
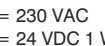
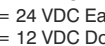
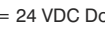
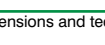
		Symbol	Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
Tube Ø10 LINE  	5/2		Pneumatic - Differential	2618.52.00.16	10 bar	1500NI/min	mm 9
			Pneumatic - Pneumatic external	2618.52.00.17			
			Pneumatic - Pneumatic	2618.52.00.18			
			Pneumatic - Spring	2618.52.00.19			
			Solenoid 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	1350NI/min	mm 9
			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	1500NI/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	1350NI/min	mm 9
			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.*			

* = 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, $\Delta p=1$	Orifice size
G 3/8" FLAT 	5/2		Pneumatic - Differential	2631.52.00.16	10 bar	1500NI/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.*			
			Solenoid - Solenoid	2631.52.00.35.*			
	5/3		Pneumatic - Pneumatic C.C.	2631.53.31.18.*	10 bar	1350NI/min	mm 9
			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.*			
			Solenoid - Solenoid	2631.53.33.35.*			
			Solenoid - Solenoid	2631.53.33.35.*			
			Solenoid - Solenoid	2631.53.33.35.*			
			Solenoid - Solenoid	2631.53.33.35.*			
Tube Ø10 FLAT 	5/2		Pneumatic - Differential	2638.52.00.16	10 bar	1500NI/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.*			
			Solenoid - Solenoid	2638.52.00.35.*			
			Solenoid - Solenoid	2638.52.00.35.*			
	5/3		Pneumatic - Pneumatic C.C.	2638.53.31.18.*	10 bar	1350NI/min	mm 9
			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.*			
			Solenoid - Solenoid	2638.53.33.35.*			
			Solenoid - Solenoid	2638.53.33.35.*			
			Solenoid - Solenoid	2638.53.33.35.*			
			Solenoid - Solenoid	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	1100NI/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	1000NI/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.*				
		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	1100NI/min	
			Solenoid - Differential	2641.52.00.36.*			
			Solenoid - Spring	2641.52.00.39.*			
	5/3		Solenoid - Solenoid C.C.	2641.53.31.35.*	10 bar	1000NI/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			
			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

2

SOLENOID VALVES

	Symbol	Description	Code	Flow at 6 bar, $\Delta p=1$	Working pressure	Min. piloting Pressure
		Solenoid - Solenoid External feeding (CE)	2741.52.00.24.*	1000NI/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.*			
		Solenoid - Solenoid External feeding (EE)	2741.53.31.24.*	660NI/min	From vacuum to 10 bar	3 bar
		Solenoid - Solenoid Self feeding (EA)	2741.53.31.35.*			
		Solenoid - Solenoid 2 spools N.C. (FE)	2741.62.44.24.*	550NI/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.*			

** = $\geq 2 + (0,3 \times P \text{ alim.})$

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

Accessories

Left Endplates		Right Endplates	
37 Poles 2740.02.37P	25 Poles 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 2740.00		Modular base 2740.01M (Monostable) 2740.01B (Bistable)	Diaphragm plug 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 2540.08T	Slave CANopen® 5525.32T	Slave DeviceNet 5425.32T	Slave PROFIBUS DP 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 EtherCAT® 5725.32T.EC	Slave PROFINET IO RT/IRT 5725.32T.PN	Slave EtherNet/IP 5725.32T.EI	Slave Powerlink 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 5725.32T.MT	Module 8 inputs - M8 5225.08T	Module 8 inputs - M12 5225.12T	2 Input module 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 ModBus 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 ModBus 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 ModBus TCP : 2 
	2 Input module - Pt100 5225.2P . 0 _ T	2 Input module - Pt100 extended range 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 ModBus 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 ModBus 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 CANopen® and DeviceNet	For Bus CANopen® and DeviceNet	For Bus PROFIBUS DP	For Bus PROFIBUS DP	For Bus EtherCAT® , EtherNet/IP, PROFINET IO RT/IRT, Powerlink and Modbus/TCP

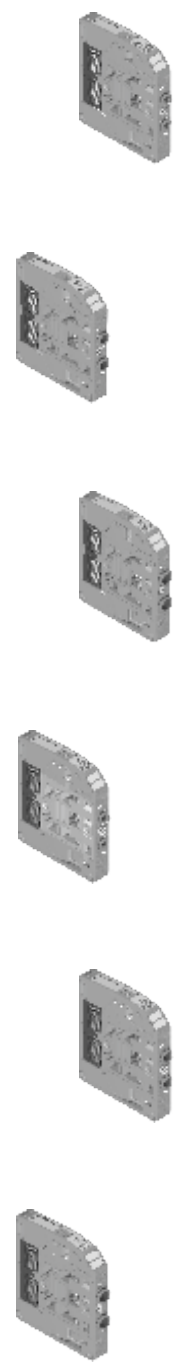
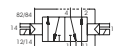
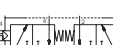
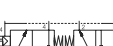
Plugs

Plug M12	Plug M8
5300.T08	5300.T12
	

Lay-out Battery Configurations: See General Catalogue

2

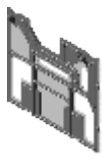
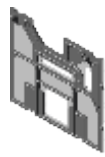
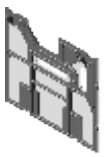
SOLENOID VALVES

		Symbol	Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
Tube Ø4 - Ø6 - Ø8 	5/2		EV 5/2 Solenoid - Spring (A4) Ø4	2304.52.00.39.*	700NI/min		
			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.*	550NI/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.*	700NI/min	Conduit 1 - 11 From vacuum to 10 bar Piloting 12 - 14 2,5 - 7 bar	Tube ø4 Tube ø6 Tube ø8
			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.*	700NI/min		
			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 - Differential 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 2300.16	Fixing bracket 2300.50	Exhaust diaphragm 2317.08 (Exhaust)	Exhaust diaphragm 2317.12 (Inlet)	Exhaust diaphragm 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
				
				

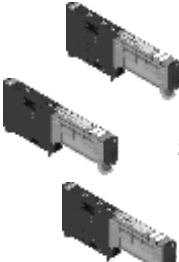
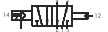
	Description	Code	Working pressure	Flow at 6 bar, $\Delta p=1$	Orifice size
Cable c/w 25 poles, IP65 connector (with housing) 	3 meters - IP65 - in line	2300.25.03.10	/	/	/
	5 meters - IP65 - in line	2300.25.05.10			
	10 meters - IP65 - in line	2300.25.10.10			
	3 meters - IP65 - 90° angle	2300.25.03.90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

Serial systems - Slave CANopen ®	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 CANopen ®	For Bus CANopen ®	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	Working Pressure	Min. piloting Pressure	
	5/2		EV 5/2 Solenoid - Spring (A)	2241.52.00.39.*	550NI/min	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.*	400NI/min	From vacuum to 10 bar	
	2x3/2		EV 2x3/2 Sol. - Sol. N.C.-N.C. (F) (O.C.)	2241.62.44.35.*	420NI/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.*			

Accessories

** = $\geq 3 + (0,2 \times P_{alim})$

* = List of voltage: **02** = micros. 24 VDC (PNP) - **12** = micros. 24 VDC (NPN) - **05** = micros. 24 VAC

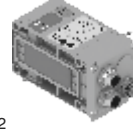
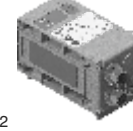
Closing plates	Modular base for monostable solenoid valve	Modular base for bistable solenoid valve	Intermediate Inlet/ Exhaust module	Diaphragm plug
2240.00	224*.01M	224*.01B	2240.10	2230.17
	* 4 = Quick fitting tube $\varnothing 4$ 6 = Quick fitting tube $\varnothing 6$ 8 = Quick fitting tube $\varnothing 8$	** 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				SPLR-*	SPLR-**
2240.02.37P	2240.12.37P	2240.02.25P	2240.12.25P	2240.03.00	2240.03.25P		
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 2240.08S	Slave CANopen® 5522.32S	Slave DeviceNet 5422.32S	Slave PROFIBUS DP 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® 5722.32S.EC		Slave PROFINET IO RT/IRT 5722.32S.PN	Slave EtherNet/IP 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 5722.32S.PL		Slave Modbus TCP 5722.32S.MT	Module 8 Inputs
 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

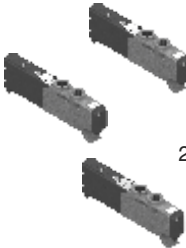
Female straight connector M12A 5P	Male straight connector M12A 5P	Female straight connector M12B 5P	Male straight connector M12B 5P	Male straight connector M12D 4P
5312A.F05.00	5312A.M05.00	5312B.F05.00	5312B.M05.00	5312D.M04.00
				
For Bus CANopen® and DeviceNet	For Bus CANopen® and DeviceNet	For Bus PROFIBUS DP	For Bus PROFIBUS DP	For Bus EtherCAT®, 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.*	1000NI/min	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.*	600NI/min	From vacuum to 10 bar	* *
	2x3/2		Solenoid - Solenoid N.C.-N.C. (F) (O.C.)	2531.62.44.35.*			
			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.*			

** = $\geq 2,5 + (0,2 \times \text{Palim.})$

* = List of voltage: **02** = micros. 24 VDC (PNP) - **12** = micros. 24 VDC (NPN) - **05** = micros. 24 VAC

Accessories

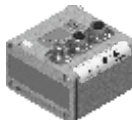
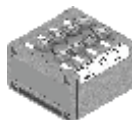
Closing plate	Modular base type 1 for monostable solenoid valve	Modular base type 2 for bistable solenoid valve	Intermediate Inlet/Exhaust module
2530.00	2530.01M	2530.01B	2530.10

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

37 Poles		Left Endplates				Right Endplates		Silencers polyethylene series SPLP		
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 CANopen [®]	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 EtherCAT [®]	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

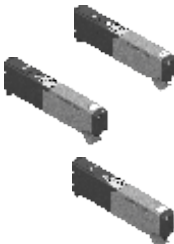

NETWORK connectors

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 CANopen [®] , DeviceNet	For Bus CANopen [®] , DeviceNet	For Bus PROFIBUS DP	For Bus PROFIBUS DP	For Bus EtherCAT [®] , 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.*	750NI/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.*	600NI/min		
	2x3/2		Solenoid - Solenoid N.C.-N.C. (F) (O.C.)	2541.62.44.35.*	700NI/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.*				

** = $\geq 2,5 + (0,2 \times P_{alim.})$

* = 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
2530.00	254*.01M	254*.01B	2540.10	2530.17
	 * 1 = Connection G 1/8" female 4 = Cartridge $\varnothing 4$	 6 = Quick fitting tube $\varnothing 6$ 8 = Quick fitting tube $\varnothing 8$		

Left Endplates				Right Endplates		Silencers polyethylene series SPLR	
37 Poles		25 Poles				SPLR-*	SPLR-**
2540.02.37P	2540.12.37P	2540.02.25P	2540.12.25P	2540.03.00	2540.03.25P		
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 2540.08T	Slave CANopen [®] 5525.32T	Slave DeviceNet 5425.32T	Slave PROFIBUS DP 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 EtherCAT [®] 5725.32T.EC	Slave PROFINET IO RT/IRT 5725.32T.PN	Slave EtherNet/IP 5725.32T.EI	Slave Powerlink 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 5725.32T.MT	Module 8 inputs - M8 5225.08T	Module 8 inputs - M12 5225.12T	2 Input module 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 5225.2P . 0 _ T	2 Input module - Pt100 extended range 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 CANopen [®] and DeviceNet	For Bus CANopen [®] and DeviceNet	For Bus PROFIBUS DP	For Bus PROFIBUS DP	For Bus EtherCAT [®] , EtherNet/IP, PROFINET IO RT/IRT, Powerlink and Modbus/TCP

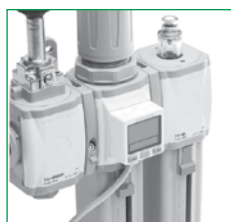
Plugs

Plug M8	Plug M12
5300.T08	5300.T12

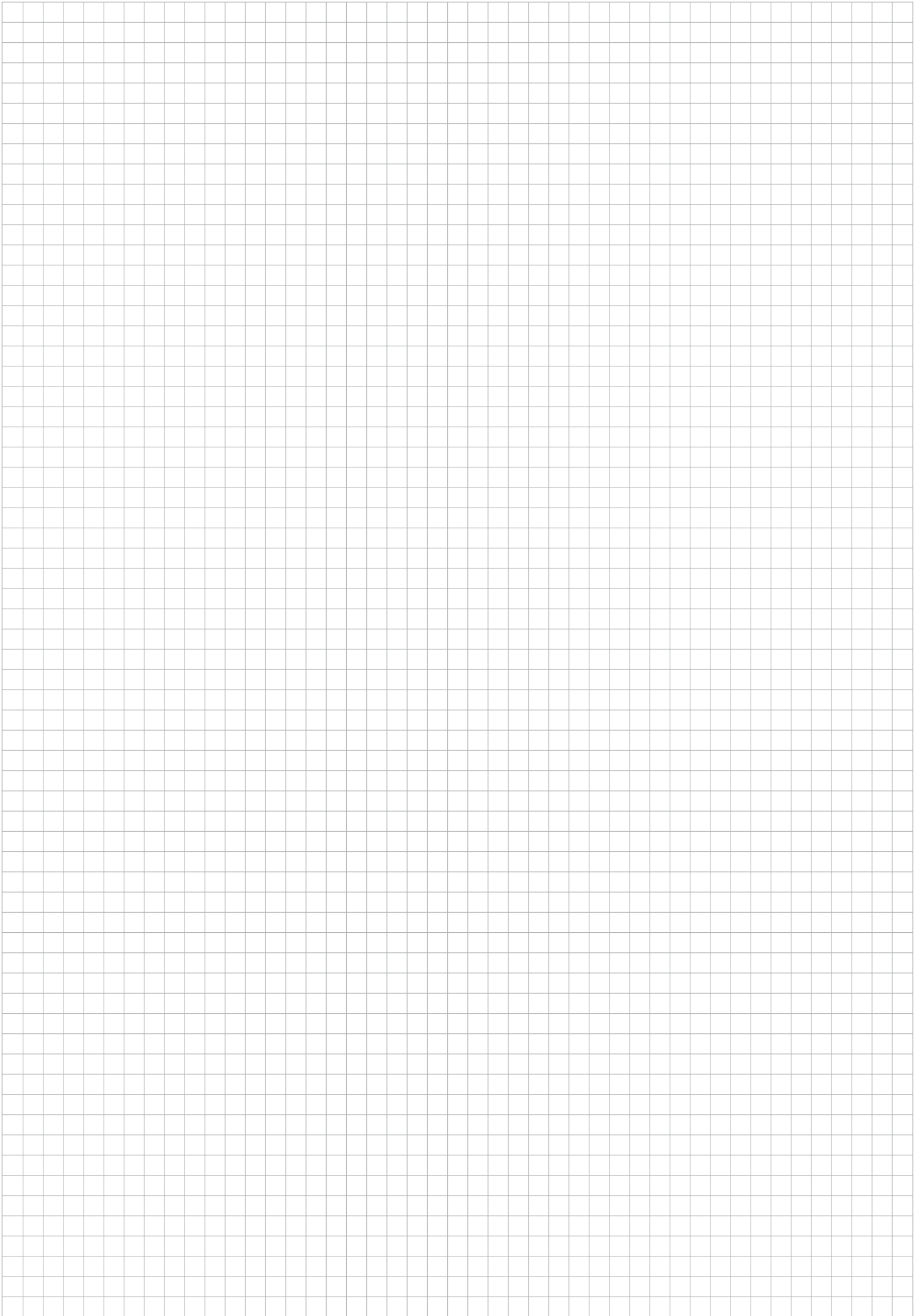
Lay-out Battery Configurations: See General Catalogue



3 - Air service units



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Pressure regulator with manometer included in the band knob	4
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Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, $\Delta p=1$	Max. pressure	Temperature
Filter						
 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	cm ³ 20	670 NI/min (Δp 0,5 bar)		
 2	17201 . . . Standard * S = Automatic exhaust A = 5μ B = 20μ (Filter pore size) C = 50μ A = G 1/4" (Connections) B = G 3/8"	M5	cm ³ 30	1420 NI/min (Δp 0,5 bar)		
 3	17301 . . . Standard * S = Automatic exhaust A = 5μ B = 20μ (Filter pore size) C = 50μ A = G 3/8" (Connections) B = G 1/2"	M6	cm ³ 48	1600 NI/min (Δp 0,5 bar)	13 bar	-5°C - +50°C
 3 G 3/4"	17301E . . . Standard * S = Automatic exhaust A = 5μ B = 20μ (Filter pore size) C = 50μ	M6	cm ³ 42	2500 NI/min		
 4	17401B . . . Standard * S = Automatic exhaust A = 5μ B = 20μ (Filter pore size) C = 50μ	M8	cm ³ 160	8000 NI/min (Δp 0,5 bar)		
Dynamic drier						
 4	1740EB . . . Standard * S = Automatic exhaust A = 5μ B = 20μ (Filter pore size) C = 50μ	M8	cm ³ 160	2500 NI/min		

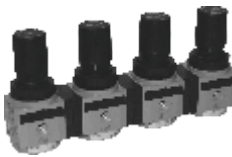
* : no additional letter required

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

* : no additional letter required

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, $\Delta p=1$	Max. pressure	Temperature
Modular pressure regulator  1  2  3  3 G 3/4"  4 G 1"	17 02 Standard * K = Lockable version L = Without Relieving SM = Improved relieving A = 0 - 2 bar B = 0 - 4 bar (Adjusting range) C = 0 - 8 bar D = 0 - 12 bar A = G 1/8" (Connections) B = G 1/4" 0 = Zinc alloy body 1 = Technopolymer body	M4	/	750 NI/min	13 bar	-5°C - +50°C
	17202 Standard * K = Lockable version L = Without Relieving SM = Improved relieving A = 0 - 2 bar B = 0 - 4 bar (Adjusting range) C = 0 - 8 bar D = 0 - 12 bar A = G 1/4" (Connections) B = G 3/8"	M5	/	2250 NI/min		
	17302 Standard * K = Lockable version L = Without Relieving SM = Improved relieving A = 0 - 2 bar B = 0 - 4 bar (Adjusting range) C = 0 - 8 bar D = 0 - 12 bar A = G 3/8" (Connections) B = G 1/2"	M6	/	3100 NI/min		
	17302E Standard * K = Lockable version L = Without Relieving SM = Improved relieving A = 0 - 2 bar B = 0 - 4 bar (Adjusting range) C = 0 - 8 bar D = 0 - 12 bar	M6	/	3100 NI/min		
	17402NB . . . Standard * K = Lockable version A = 0 - 2 bar B = 0 - 4 bar (Adjusting range) C = 0 - 8 bar D = 0 - 12 bar	M8	/	7500 NI/min (Δp 0,5 bar)		
Piloted pressure regulator  2  3  4	17202 . P . Standard version * L = Without relieving A = G 1/4" B = G 3/8"	M5	/	/	13 bar	-5°C - +50°C
	17302 . P . Standard version * L = Without relieving A = G 3/8" B = G 1/2"	M5	/	/		
	17402NB.P	M5	/	/		

* : no additional letter required

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, $\Delta p=1$	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" (Connections) B = G 1/4" 0 = Zinc alloy body Version 1 = Tecopolymer body Version	M4	/	750 NI/min		
 2	17222 . . A = 0 - 2 bar B = 0 - 4 bar (Pressure range) C = 0 - 8 bar D = 0 - 12 bar A = G 1/4" (Connections) B = G 3/8"	M5	/	2250 NI/min	13 bar	-5°C - +50°C
 3	17322 . . A = 0 - 2 bar B = 0 - 4 bar (Pressure range) C = 0 - 8 bar D = 0 - 12 bar A = G 3/8" (Connections) B = G 1/2"	M6	/	3100NI/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" (Connections) B = G 1/4"	M4	/	700 NI/min		
 	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 Standard * K = Lockable version Position 6 Position 5 Position 4 Position 3 Position 2	M4	/	700 NI/min	13 bar	-5°C - +50°C

* : 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 NI/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 6 Position 5 Position 4 Position 3 Position 2	M4	/	700 NI/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 NI/min	/	-5°C - +50°C	
	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" (Connections) B = G 3/8"	M5	cm³ 50	2280 NI/min	13 bar		
	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" (Connections) B = G 1/2"	M6	cm³ 80	5400 NI/min			
	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 NI/min			
	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 NI/min (Δp 0,5 bar)			

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, $\Delta p=1$	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 (Adjusting range) C = 0 - 8 bar D = 0 - 12 bar A = 5 μ B = 20 μ (Filter efficiency) C = 50 μ A = G 1/8" (Connections) B = G 1/4" 0 = Zinc alloy body 1 = Technopolymer body	M4	cm ³ 17	750 NI/min		
 2	17204 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 = 5 μ B = 20 μ (Filter efficiency) C = 50 μ A = G 1/4" (Connections) B = G 3/8"	M5	cm ³ 28	2000 NI/min	13 bar	-5°C - +50°C
 3	17304 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 = 5 μ B = 20 μ (Filter efficiency) C = 50 μ A = G 3/8" (Connections) B = G 1/2"	M6	cm ³ 42	3150 NI/min		
 3 G 3/4"	17304E 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 = 5 μ B = 20 μ (Filter efficiency) C = 50 μ	M6	cm ³ 42	3150 NI/min		

* : no additional letter required

Size	Ordering code	Wall fixing screws	Flow at 6,3 bar, $\Delta p=1$	Max. pressure	Temperature
Progressive start-up valve  1  2  3  4	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 NI/min	10 bar	-5°C - +50°C
	17210.M2 Progressive start-up valve with electric piloting control, complete with mechanic for M2 microsolenoid valve. 17220 Progress. start-up valve with pneumatic piloting control.	M5	1700 NI/min		
	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 NI/min		
	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 NI/min		
Shut-off valve  1  	17 30 . A = Not lockable handle B = Lockable handle 0 = Zinc alloy body 1 = Technopolymer body	M4	1000 NI/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
  	172 30 . A = Not lockable handle B = Lockable handle	M5	2100 NI/min	13 bar	-5°C - +50°C
	172 30 . M2 = Electric with M2 M2/9 = Electric with M2/9				
	172 30 . PN				
  	173 30 . A = Not lockable handle B = Lockable handle	M6	3200 NI/min		
	173 30 . M2 = Electric with M2 M2/9 = Electric with M2/9				
	173 30 . PN				
	17430. A = Not lockable handle B = Lockable handle	M8	8000 NI/min		

Size	Ordering code	Wall fixing screws	Max bowl capacity	Flow at 6,3 bar, $\Delta p=1$	Max. pressure	Temperature
Filter pressure regulator + Lubricator 	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 = 5 μ B = 20 μ (Filter efficiency) C = 50 μ A = G 1/8" (Connections) B = G 1/4" 0 = Zinc alloy body 1 = Technopolymer body	M4	cm ³ 17	550 NI/min		
	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 = 5 μ B = 20 μ (Filter efficiency) C = 50 μ A = G 1/4" (Connections) B = G 3/8"	M5	cm ³ 28	1200 NI/min	13 bar	-5°C - +50°C
	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 = 5 μ B = 20 μ (Filter efficiency) C = 50 μ A = G 3/8" (Connections) B = G 1/2"	M6	cm ³ 42	2400 NI/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 = 5 μ B = 20 μ (Filter efficiency) C = 50 μ	M6	cm ³ 42	2400 NI/min		

* : no additional letter required

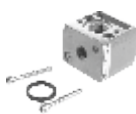
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AIR SERVICE UNITS

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" (Connections) B = G 1/4" 0 = Zinc alloy body 1 = Technopolymer body	M4	cm³ 17	500 NI/min		
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" (Connections) B = G 3/8"	M5	cm³ 28	1000 NI/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" (Connections) B = G 1/2"	M6	cm³ 42	2100 NI/min	13 bar	-5°C - +50°C
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 NI/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 NI/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 	171S2B. . . . = Standard * E = External feedback Pressure range 0002 = 0,1 - 2 bar 0004 = 0,1 - 4 bar 0007 = 0,1 - 7 bar 0010 = 0,1 - 10 bar * : no additional letter required	/	/	10 bar	-5°C - +50°C
	173S2B. . . . = Standard * E = External feedback Pressure range 0002 = 0,1 - 2 bar 0004 = 0,1 - 4 bar 0007 = 0,1 - 7 bar 0010 = 0,1 - 10 bar * : no additional letter required	/	/		
Pressure switch 	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
	17 24A = Pressure switch adapter 14B = Pressure switch 24C = Pressure switch complete with adapter				
	17 34A = Pressure switch adapter 14B = Pressure switch 34C = Pressure switch complete with adapter				
	17 44A = Pressure switch adapter 14B = Pressure switch 44C = Pressure switch complete with adapter				

Size	Size
Air intake 	17140 17240 17340 17440
Air intake "H" profile 	17140H 17240H 17340H
Fixing brackets 	17050 17150 17250 17350
Fixing bracket 	170M5

Assembling kits 	170M6 (for manifold regulators) 17160 (standard) 17165 (for start up valve) 17260 (standard) 17265 (for start up valve) 17360 (standard) 17365 (for start up valve) 17460 (standard) 17465 (for start up valve)
Unidirectional air intake 	17240.U 17340.U
Flange G 3/4" 	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) 	S 172 F 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 options = Standard* G = pressure gauge connection Version S = Standard surface finishing F = Clean profile * no additional letter required
	S 173 F 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 options = Standard* G = pressure gauge connection Version S = Standard surface finishing F = Clean profile * no additional letter required
	S 174 F 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 options = Standard* G = pressure gauge connection Version S = Standard surface finishing F = Clean profile * no additional letter required
Regulator (R) 	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
	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
	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 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 Version S = Standard surface finishing F = Clean profile * no additional letter required																		
 3	S 173 E 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 Version S = Standard surface finishing F = Clean profile * no additional letter required																		
 4	S 174 E 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 Version S = Standard surface finishing F = Clean profile * no additional letter required																		
	<table><tr><th></th><th>Size</th><th>Ordering code</th></tr><tr><td>Fixing bracket</td><td>2</td><td>SS17250</td></tr><tr><td></td><td>3</td><td>SS17350</td></tr><tr><td></td><td>4</td><td>SS17450</td></tr><tr><td>Manometer</td><td></td><td>SS17070A</td></tr><tr><td></td><td></td><td> A = Scale 0 - 4 bar B = Scale 0 - 12 bar </td></tr></table>		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																	
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 Type : C = Current signal (4-20 mA / 0-20 mA) T = Voltage signal (0-10 V / 0-5 V / 1-5 V) 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 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 NI/min Size 1 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 NI/min Size 3 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 NI/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 Type : C = Current signal (4-20 mA) T = Voltage signal (0-10 V) 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 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 NI/min Size 1 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 NI/min Size 3 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 NI/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 Type : C = Current signal (4-20 mA) T = Voltage signal (0-10 V) 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 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 NI/min Size 1 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 NI/min Size 3 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 NI/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 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 NI/min Size 1 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 NI/min Size 3 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 NI/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 Size 0 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 7 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 7 NI/min Size 1 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 1100 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 1300 NI/min Size 3 - Nominal Flow from 1 to 2 (6 bar Δp 1 bar) : 4000 NI/min Flow rate (at 6 bar with overpressure of 1 bar) : 4500 NI/min Note: This model doesn't include the terminating resistor	

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



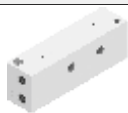
Electric connectors



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
			

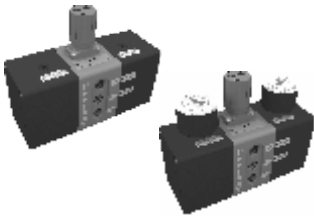
Ordering code	
Proportional pressure regulator with external feedback 	170E..M..M..E Protection 0 = Parameter 18 active 2 = Parameter 18 not active Version T = Voltage signal C = Current signal Pressure range 001 = Range 0 - 1 bar 005 = Range 0 - 5 bar 009 = Range 0 - 9 bar
Proportional Pressure Regulator 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	/	/

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Filter (F) 	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		cm³ 18		
	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		
	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	Vertical		13 bar	-5°C - 50°C
	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		

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Coalescing filter (D) 	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	cm ³ 18	13 bar	-5°C-+50°C
	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		cm ³ 34		
	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		cm ³ 68		
	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		cm ³ 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  3  4	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	cm ³ 30	13 bar	-5°C - +50°C
	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				
	N174BDAV Standard (no additional letter required) N = Nylon bowl		/		
Carbon filter (DD)  3  4	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	Vertical	cm ³ 30	13 bar	-5°C - +50°C
	N174BDD Standard (no additional letter required) N = Nylon bowl		cm ³ 90		

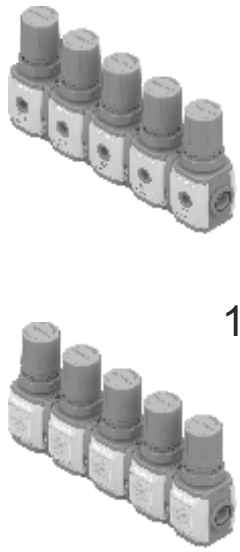
Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Regulator (R)					
 1	171 R Standard (no additional letter required) K = Lockable version Standard (no additional letter required) F = Controlled refuel + improved relieving L = no relieving R = Improved relieving Adjusting 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		/		
 2	172 R Standard (no additional letter required) K = Lockable version Standard (no additional letter required) F = Controlled refuel + 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 refuel + 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	Indifferent	/	13 bar	-5°C - +50°C
 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		/		

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Regulator including gauge (RM)(RW) 	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		/		
	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		/		
	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	Indifferent	/	13 bar	-5°C - +50°C
	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

3

AIR SERVICE UNITS

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Modular pressure regulator (B) 	171 B T Standard (no additional letter required) K = Lockable version Standard (no additional letter required) F = Controlled relief + 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		/		
Modular pressure regulator including manometer (M) 	171 M T Standard (no additional letter required) K = Lockable version Standard (no additional letter required) F = Controlled relief + 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
Manifold pressure regulator 	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) 	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 Filter pore size A = 5 µm B = 20 µm 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		cm³ 18		
	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 Filter pore size A = 5 µm B = 20 µm 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		
	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 Filter pore size A = 5 µm B = 20 µm 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	Vertical		13 bar	-5°C - +50°C
	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 Filter pore size A = 5 µm B = 20 µm C = 50 µm		cm³ 90		

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

3

AIR SERVICE UNITS

Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Filter regulator including gauge (EM)(EW)  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		

* Flow direction
 M = 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
Regulator with pressure switch (RP)(RZ) 	171 R * - T * 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		/		
	172 R * - T * 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		/		
	173 R * - T * 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	Indifferent	/	13 bar	-5°C - +50°C
	N174BR * - T * 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 :
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

3

AIR SERVICE UNITS

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		cm³ 18		
 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	Vertical	cm³ 68	13 bar	-5°C - +50°C
 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		/		

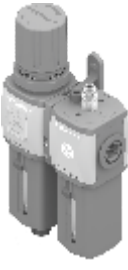
Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Pneumatic shut-off valve (VP)  1  2  3  4	171 VP Connections A = G 1/8" (only for "N" version) B = G 1/4" C = G 1/4" NPT (only for "N" version) Version N = Metal inserts T = Technopolymer thread	Indifferent	/	10 bar	-5°C - +50°C
	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				
	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				
	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  2  3  4	171 VE 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 *** Version N = Metal inserts T = Techno. thread 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
	172 VE 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 *** Version N = Metal inserts T = Techno. thread 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)				
	173 VE 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 *** Version N = Metal inserts T = Techno. thread 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)				
	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  2  3  4	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
	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				
	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				
	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)			Indifferent	13 bar	-5°C - +50°C	
 1	T171BPA	/				
 2	T172BPA	/				
 3	T173BPA	/				
 4	N174BPA			/		
Pressure switch (PP)			Indifferent	13 bar	-5°C - +50°C	
 1	T171BPP	/				
 2	T172BPP	/				
 3	T173BPP	/				
 4	N174BPP	Flow direction = from left to right W = from right to left		/		

Size	Ordering code	Size	Ordering code
Flange X		Fixing bracket	
 1	T171X	 1	17150
2	T172X	2	T17250
3	T173X	3	T17250
4	T174X	Manometer	
Flange Y		17070	
 1	T171Y	A = Scale 0 - 4 bar B = Scale 0 - 6 bar C = Scale 0 - 12 bar A = Dial Ø40 B = Dial Ø50	
2	T172Y		
3	T173Y		
4	T174Y		
Aluminium flange Y			
 1	N171Y		
2	N172Y		
3	N173Y		

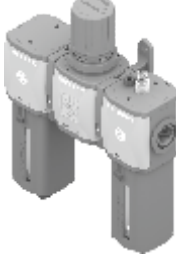
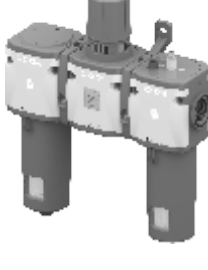
Size	Ordering code	Mounting Position	Max bowl capacity	Max. pressure	Temperature
Supply and Discharge Valve Single (VS) 	N173BVS Fixings = Without fixing (no additional letter required) 01 = Fixing bracket mounted (Left-Right) 02 = Fixing bracket mounted (Right-Left) Versions = Standard (without connections) 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) 	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

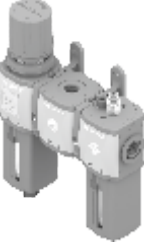
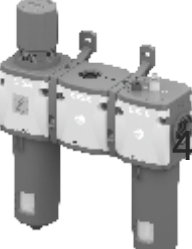
Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (EM+L) (E+L) (EW+L) 	G 171 * * * * Standard (no additional letter required) S = Automatic drain Filter pore size / Adjusting range C = 5 µm / 0-8 bar D = 5 µm / 0-12 bar G = 20 µm / 0-8 bar H = 20 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		
	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
	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
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

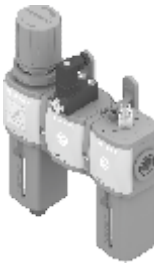
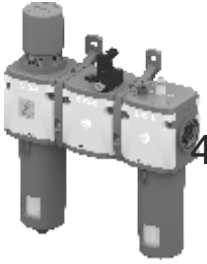
Size	Ordering code	Assembly positions	Max bowl capacity	Max. pressure	Temperature
Service unit assembled (F+RM+L) (F+R+L) (F+RW+L)  1	G 171 * * * * * * Standard (no additional letter required) S = Automatic drain Filter pore size/ Adjusting range C = 5 µm / 0-8 bar D = 5 µm / 0-12 bar G = 20 µm / 0-8 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) 	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		
	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
	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
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

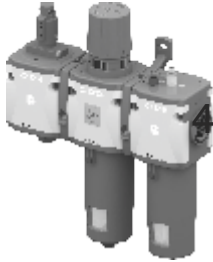
* = Standard (from left to right)

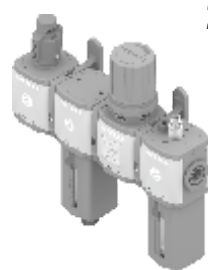
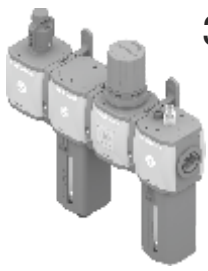
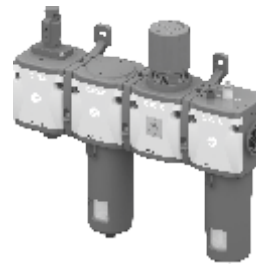
W = from right to left

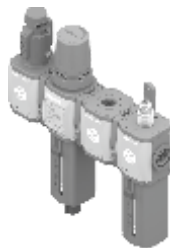
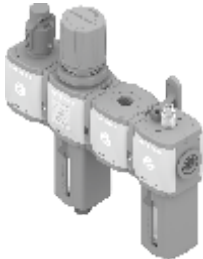
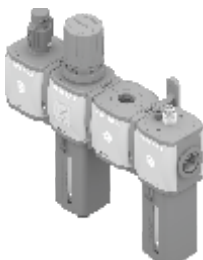
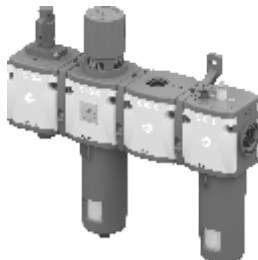
* Bowl options :

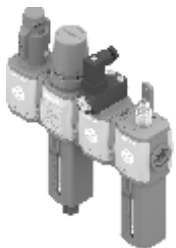
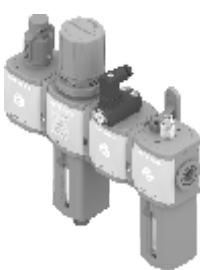
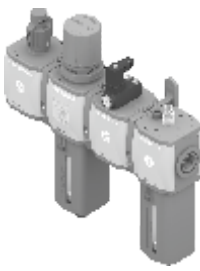
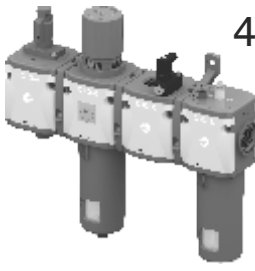
* = Standard (no additional letter required)

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) 	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		
	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
	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		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 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		cm ³ 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	cm ³ 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		cm ³ 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		cm ³ 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) 	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		
	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
	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
 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

AIR SERVICE UNITS



4 - Cylinders



Special performance microcylinders, series 1200.....	1
Microcylinders according to standard ISO 6432, threaded end covers, series 1200.....	1
Microcylinders according to standard ISO 6432 "MIR", rolled end covers, series 1200.....	2
Microcylinders according to standard ISO 6432 "MIR INOX", rolled end covers, series 1200.....	2
Microcylinders according to standard ISO 6432 technopolymer "TECNO-MIR" series 1200.....	3
Microcylinders according to standard ISO 6432, stainless steel AISI 316, Steel line series	4
Tie rods cylinders CNOMO-CETOP-ISO, series 1303 - 1308.....	5
Tie rods cylinders ISO 15552 Ø250 - Ø320, series 1315.....	7
Cylinders according to standard ISO 15552, series 1319 - 1321.....	8
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Rotary actuators, series 1330 - 1333.....	9
Cylinders according to standard ISO 15552 ECOPLUS , series 1386 - 1388, 1396 - 1398.....	10
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Cylinders according to standard iso 15552 stainless steel AISI 316, Steel line series	14
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	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)

	Ordering code
Basic version, without rear eye and push/pull rod     	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.



Basic version, without rear eye
and push/pull rod



Ordering code

- 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)

Basic version and
push/pull rod



Ordering code

- 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

Basic version, without rear eye and push/pull rod



Ordering code

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

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)

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

Inox fixing

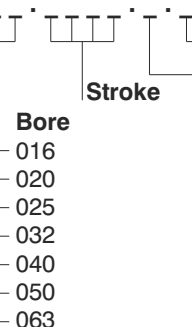
Foot 1200.Ø.01X	Flange 1200.Ø.02X	Rear eye 1200.Ø.03X
(stainless steel AISI 304)	(stainless steel AISI 304)	(stainless steel AISI 304)

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

Basic version and push/pull rod

Ordering code

12X



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)

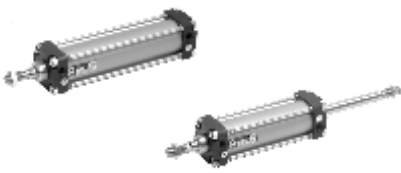
- S = End cap: threaded
End cap: threaded
- T = End cap: threaded
End cap: clean profile

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	
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
					

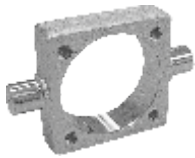
Fork with clips			Distributor supports	Bases for ISO distributor	
CNOMO	CETOP	ISO	1306.15	1320.21	1320.22
1300.Ø.13/1F	1301.Ø.13/1F	1302.Ø.13/1F	(Ø32 - Ø100)	ISO 1	ISO 2
					

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
			

		Ordering code
Basic version and push/pull  	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.

		Ordering code
Tandem version    		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)

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

Accessories

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

Non rotating version



Ordering code

13 _ **.Ø.stroke.** _

- **01** = Basic version
- **02** = Push/Pull
- **48** = Magnetic chromed rod
- **49** = Magnetic stainless steel rod
- **50** = Non magnetic chromed rod

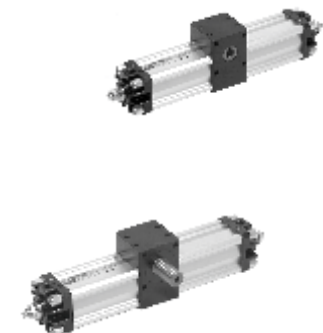
Bore: Ø32 - Ø40 - Ø50 - Ø63

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



Basic and Pull/Push version**Ordering code****13 _ . Ø . STROKE .**

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

- 86** = Magnetic chromed rod end plates made of high resistant thermoplastic material
- 87** = Magnetic stainless steel rod end plates made of high resistant thermoplastic material
- 88** = Non magnetic end plates made of high resistant thermoplastic 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 high resistant thermoplastic material
- 87** = Magnetic stainless steel rod end plates made of high resistant thermoplastic material
- 88** = Non magnetic end plates made of high resistant thermoplastic 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 high resistant thermoplastic material
- 87** = Magnetic stainless steel rod end plates made of high resistant thermoplastic material
- 88** = Non magnetic end plates made of high resistant thermoplastic 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**

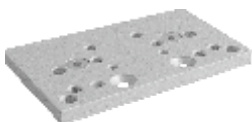
from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm

Series 1386 - 1388 = ECOPLUS-T With end plates made of high resistant thermoplastic 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

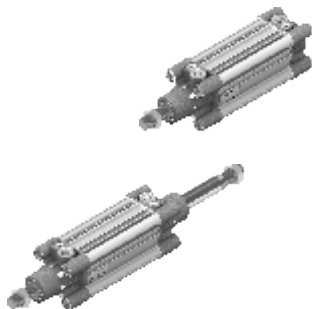
1320.23**1320.24**

ISO 1

ISO 2



Basic and Pull/Push version



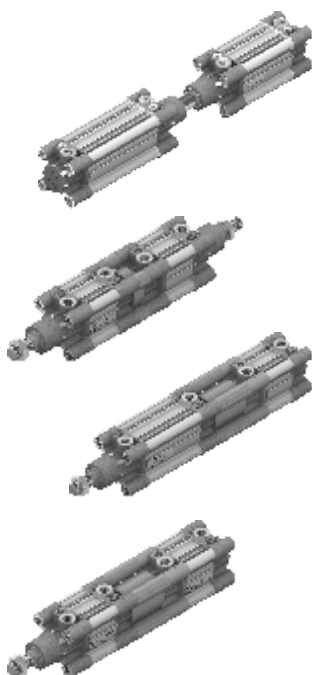
Ordering code

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 (aluminium)	1320.Ø.05/1F (steel)	1380.Ø.08F (aluminium)	1320.Ø.19F (steel)	1380.Ø.09F (aluminium)	1320.Ø.20F (steel)
					

Rear male clevis (MP4)	Trunnion with support bracket			
1380.Ø.09/1F (aluminium)	1320.Ø.21F (steel)	1380.Ø.11F (aluminium)	1380.Ø.35F (aluminium)	1320.Ø.23F (from Ø32 to Ø100) (steel)
				1320.Ø.27F (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 (aluminium)	1380.Ø.30F (aluminium)	1320.Ø.29F (steel) (from Ø32 to Ø125)	1380.Ø.15F (aluminium)	1320.Ø.25F (steel) (from Ø32 to Ø125) (with joined head according to DIN 648K standards)	1380.Ø.36F (aluminium)	1320.Ø.26F (steel) (from Ø32 to Ø125) (with joined head according to DIN 648K standards)
						

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

Flanges		Intermediate trunnion			
1390.Ø.03F (aluminium)	1390.Ø.03FP (die-casting aluminium)	For 1319 - 1321 series		For Ecoplus series	For Ecolight series
		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 (steel)	1320.Ø.13/1F	1320.Ø.18F	1320.Ø.32F
			

	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:  <table border="1"> <tr> <td>1320.AGL</td><td>sensor brackets for cylinders Ø32 and Ø40</td></tr> <tr> <td>1320.BGL</td><td>sensor brackets for cylinders Ø50 and Ø63</td></tr> <tr> <td>1320.CGL</td><td>sensor brackets for cylinders Ø80</td></tr> </table>	1320.AGL	sensor brackets for cylinders Ø32 and Ø40	1320.BGL	sensor brackets for cylinders Ø50 and Ø63	1320.CGL
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.

	Ordering code
Basic and Pull/Push version 	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

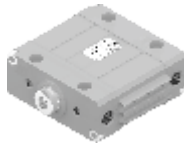
139_(93.94) Ø.stroke._ _ V = Version with FPM seals

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.B (Ø50 - Ø63)	1393.Ø.03F	1393.Ø.05/1F	1393.Ø.09F	1393.Ø.09/1F
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 jointed 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 stainless steel rod
- 72** = Non magnetic chrome plated rod
- 73** = Non magnetic stainless steel rod

Maximun standard strokes

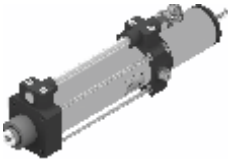
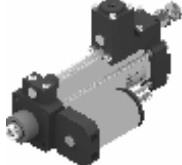
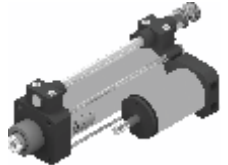
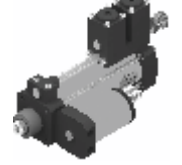
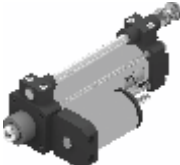
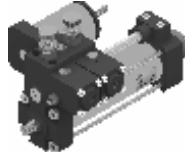
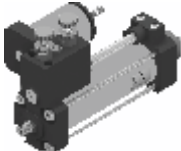
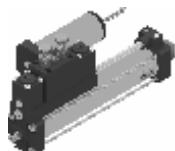
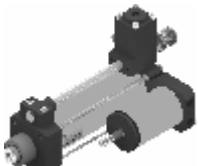
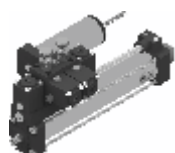
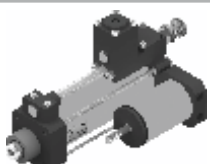
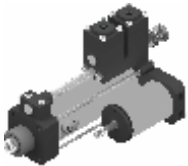
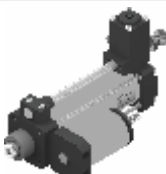
Size 25 200mm

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	Ordering code
 Regulation on the outward stroke - Tank in line 1400.40.stroke.01.1	 Regulation on the inward stroke with stop (Stop valve) 1400.40.stroke.02.05
 Regulation on the outward stroke - Lateral tank 1400.40.stroke.01.2	 Regulation on the inward stroke with skip and stop (Acceleration and stop valves) 1400.40.stroke.02.06
 Regulation on the inward stroke 1400.40.stroke.02.2	 Regulation in both directions with skip (Acceleration valves in both directions) 1400.40.stroke.03.04
 Regulation in both directions 1400.40.stroke.03.2	 Regulation in both directions with stop (Stop valves in both directions) 1400.40.stroke.03.05
 Regulation on the outward stroke with skip (Acceleration valve) 1400.40.stroke.01.04	 Regulation in both directions with skip and stop (Acceleration and stop valves in both directions) 1400.40.stroke.03.06
 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	

Attention:

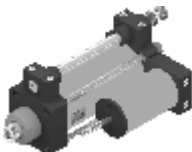
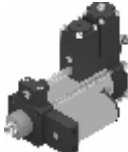
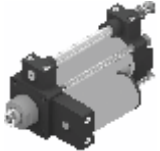
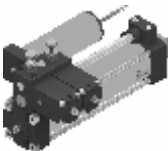
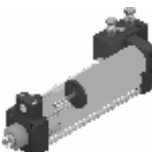
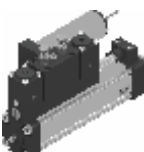
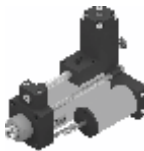
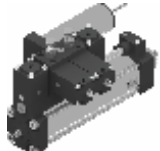
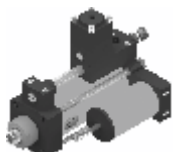
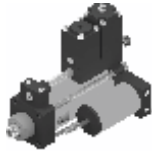
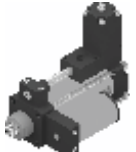
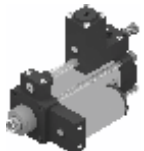
Regulation on the outward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving out speed control piston rod

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	Ordering code
 Regulation on the outward stroke – Lateral tank 1400.63.stroke.01.2	 Regulation on the inward stroke with skip and stop (Acceleration and stop valve) 1400.63.stroke.02.06
 Regulation on the inward stroke 1400.63.stroke.02.2	 Regulation in both direction with skip (Accelerations valve in two directions) 1400.63.stroke.03.04
 Regulation in both directions 1400.63.stroke.03.2	 Regulation in both direction with stop (Stop valves in two directions) 1400.63.stroke.03.05
 Regulation on the outward stroke with skip (Acceleration valve) 1400.63.stroke.01.04	 Regulation in both direction with skip and stop (Acceleration and stop valves in two directions) 1400.63.stroke.03.06
 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	

Attention:

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

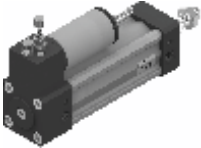
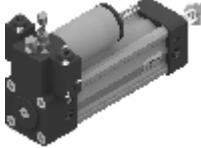
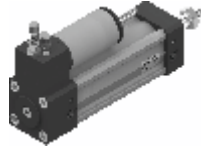
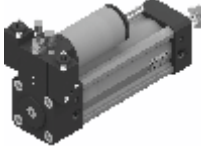
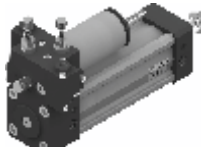
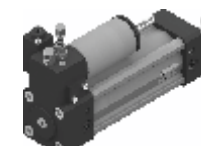
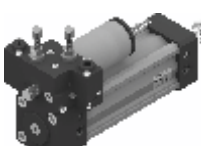
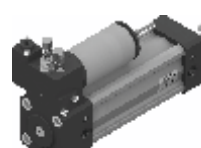
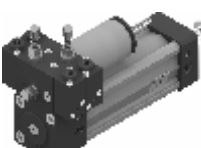
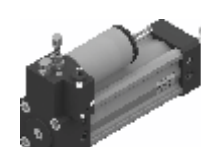
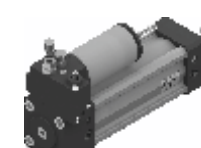
Regulation on the inward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving in speed control piston rod

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	Ordering code
 Regulation on the outward stroke 14Ø.stroke.A.0.0	 Regulation on the outward stroke with Skip N.O. - Stop N.O. 14Ø.stroke.A.D.D
 Regulation on the inward stroke 14Ø.stroke.B.0.0	 Regulation on the inward stroke with Skip N.O. - Stop N.O. 14Ø.stroke.B.E.E
 Regulation in both directions 14Ø.stroke.D.0.0	 Regulation and Skip in both directions (N.O. Skip valve in both directions) 14Ø.stroke.D.0.F
 Regulation on the outward stroke with Skip N.O. 14Ø.stroke.A.0.D	 Regulation and Stop in both directions (N.O. Stop valves in both directions) 14Ø.stroke.D.F.0
 Regulation on the inward stroke with Skip N.O. 14Ø.stroke.B.0.E	 Regulation with Skip and Stop in both directions (N.O. Skip and Stop valves in both directions) 14Ø.stroke.D.F.F
 Regulation on the outward stroke with Stop N.O. 14Ø.stroke.A.D.0	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
 Regulation on the inward stroke with Stop N.O. 14Ø.stroke.B.E.0	

Hydraulic fluid refill syringe
1400.99.02



Oil for hydraulic and pneumatic circuits
PNEUMOIL 01



Sensor brackets codes
1500._, RS._, HS._
1320.B



from Ø50 to Ø63

Sensor brackets codes
1580._, MRS._, MHS._
1320.BS



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

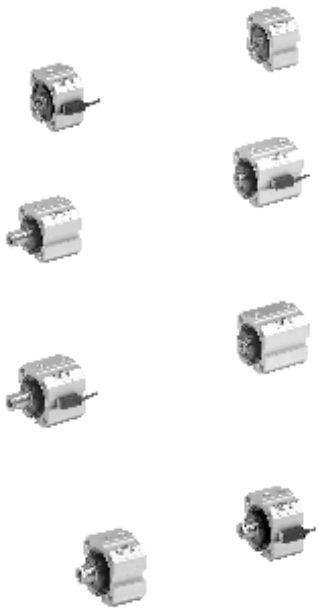
Regulation on the inward stroke: it happens when the pneumatic cylinder (connected to speed control) is moving in speed control piston rod

Standard strokes

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

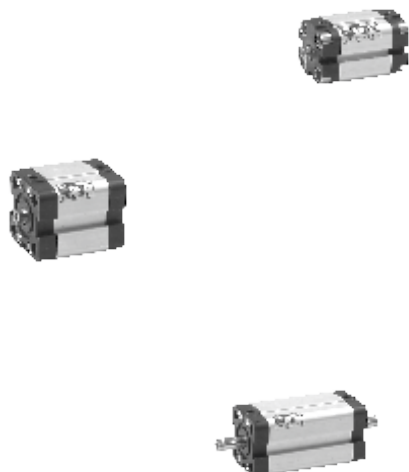
Bore

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. Type 1502, 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 		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) 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) 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) 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) 1501.Ø.stroke.AR (standard seals) 1501.Ø.stroke.AR.V (FPM seals) 1501.Ø.stroke.AR.T (seals in HNBR) 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 	

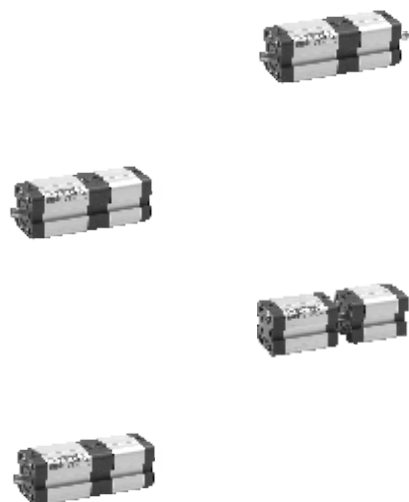
Basic and push/ pull version



Ordering code

- 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)

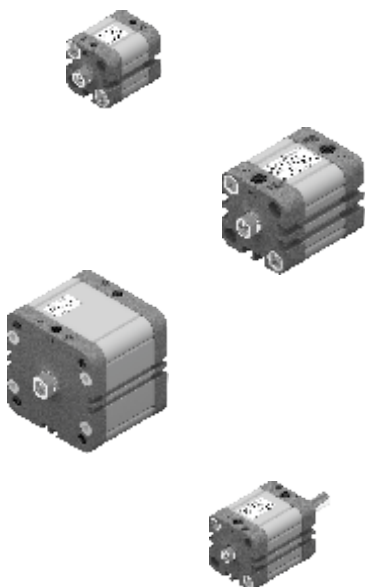
Slot fixing screws	Centering rings	Front female clevis (from Ø 32 to Ø 100)	
 1500.15F = from Ø32 1500.16F = from Ø40 to Ø63 1500.17F = from Ø12 to Ø50 1500.18F = from Ø80 to Ø100		ISO	UNITOP
	1580.Ø.02F	1500.Ø.08F	1580.Ø.11F 1580.Ø.13F
	(from Ø 32 to Ø 100)	(aluminium)	(aluminium) (steel)

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

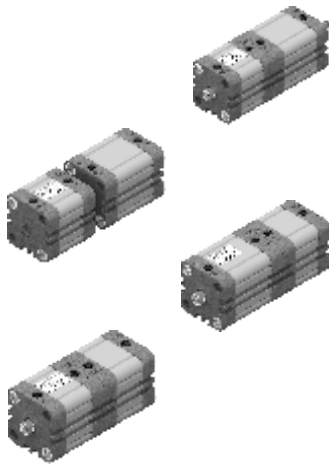
- 0 = NBR seals and C43 chromed plated rod *
- 1 = NBR seals and stainless steel rod (starting from bore Ø32)
- 4 = PUR seals and C43 chromed plated rod *
- 5 = PUR seals and stainless steel rod (starting from bore Ø32)
- 6 = FPM seals and C43 chromed plated rod *
- 7 = FPM seals and stainless steel rod (starting from bore Ø32)
- * (Ø20 and Ø25 stainless 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 | Tandem push with common rods |
| 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 | |
| B = female threaded rod | Tandem push with independent rods |
| 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 | |
| D = Opposed tandem with common rod | |
| A = female threaded rod | Tandem with opposite rods |
| E = male threaded rod | |
| L = with non-rotating device on both ends | |
| 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

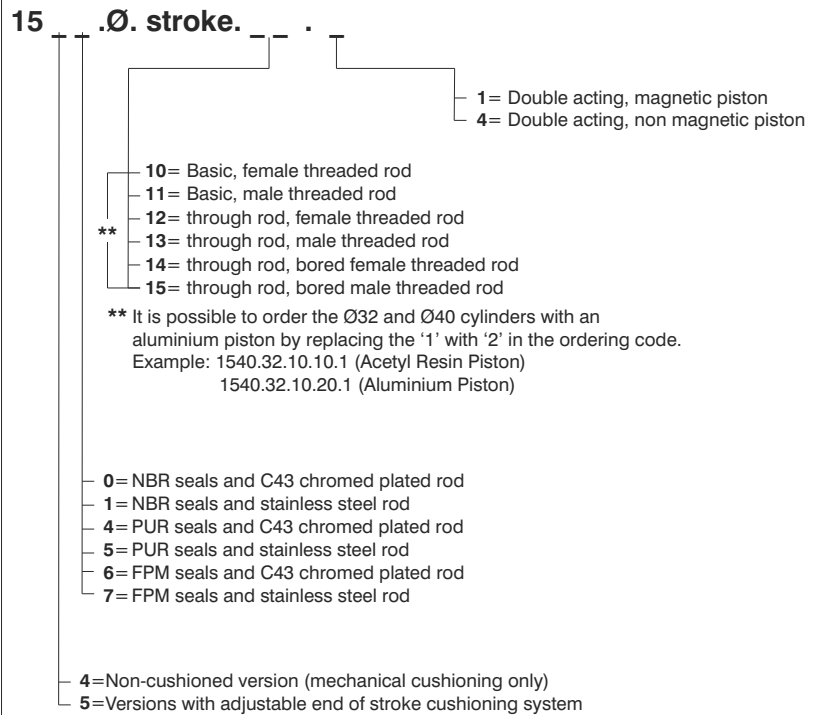
SINGLE ACTING Version

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 jointed head)	Square angle trunnion (not specified by ISO-VDMA standard)	Square angle trunnion (with jointed 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

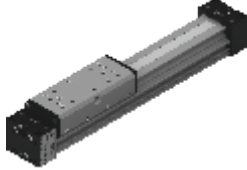
**Basic and
push/pull version**

Ordering code

Bore

Ø32 - Ø40 - Ø50 - Ø63

Accessories

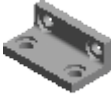
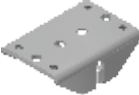
Rod lock nut Ø32: 1320.32.18F Ø40: 1320.40.18F Ø50 - Ø63: 1320.50.18F	Ball joint Ø32: 1320.32.32F Ø40: 1320.40.32F Ø50 - Ø63: 1320.50.32F	Fork Ø32: 1320.32.13F Ø40: 1320.40.13F Ø50 - Ø63: 1320.50.13F	Fork with clips Ø32: 1320.32.13/1F Ø40: 1320.40.13/1F Ø50 - Ø63: 1320.50.13/1F	Valves direct mounting nut 1500.20.F
Self-aligning joint Ø32: 1320.32.33F Ø40: 1320.40.33F Ø50 - Ø63: 1320.50.33F	Flange (MF2) Aluminium: 1390.Ø.03FP Steel: 1380.Ø.03F	Foot (MS1) Steel: 1540.Ø.05/1F	Rear female clevis (MP2) Aluminium: 1380.Ø.09F Steel: 1320.Ø.20F	Narrow rear female trunnion (AB6) Aluminium: 1380.Ø.30F Steel: 1320.Ø.29F
Rear male clevis (MP4) Aluminium: 1380.Ø.09/1F Steel: 1320.Ø.21F	Rear male clevis (with jointed head MP6) Aluminium: 1380.Ø.15F Steel: 1320.Ø.25F	Square angle trunnion (AB7) Aluminium: 1380.Ø.35F Steel: 1320.Ø.23F	Square angle trunnion (with jointed head) Steel: 1320.Ø.27F	
Square angle trunnion (not specified by ISO-VDMA standard) Aluminium: 1380.Ø.11F	Square angle trunnion (with jointed head) Aluminium: 1380.Ø.36F Steel: 1320.Ø.26F	Standard trunnion (not specified by ISO-VDMA standard) Aluminium: 1380.Ø.10F	Complete standard trunnion 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

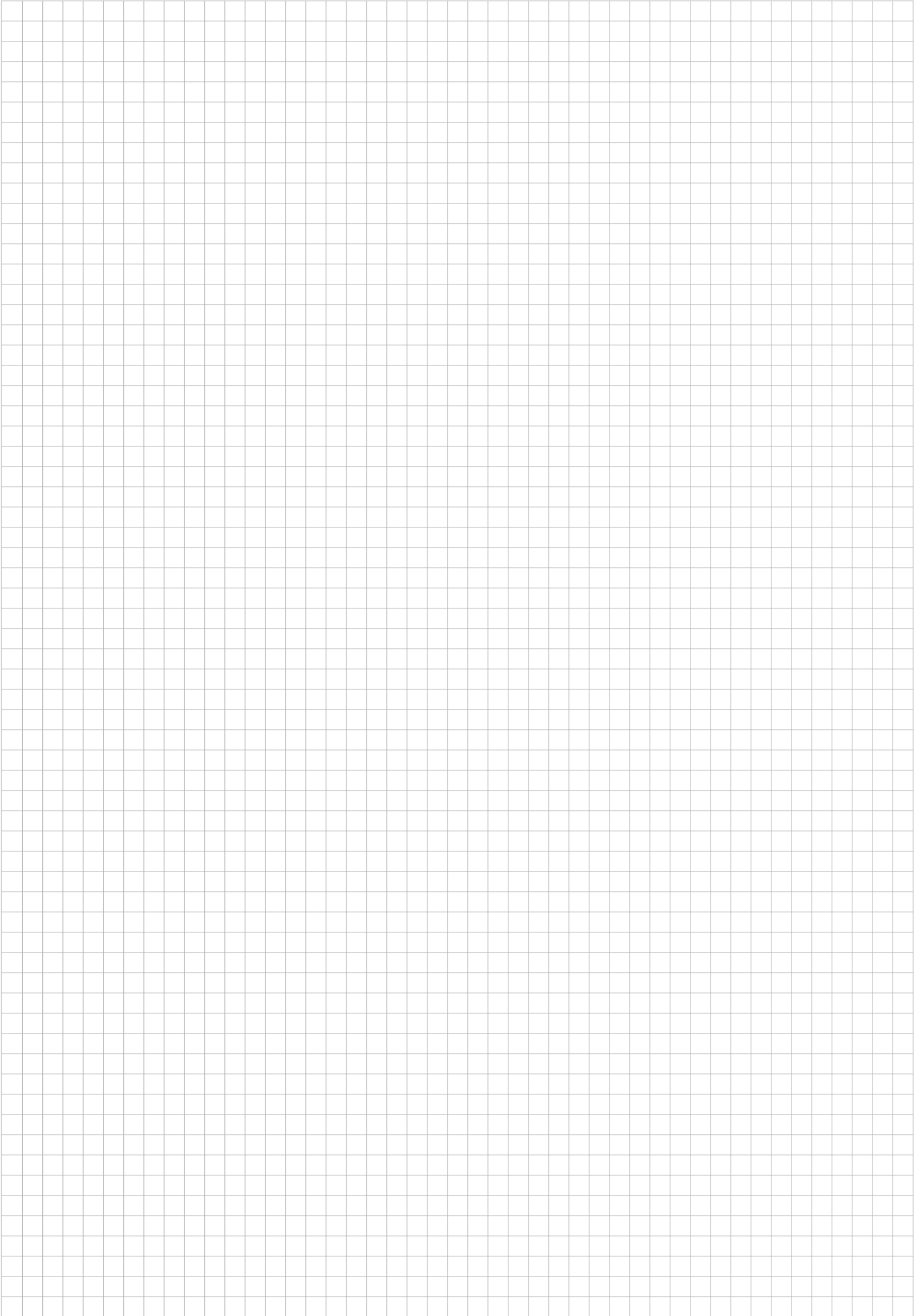
Mounting foot brackets	Intermediate support	Oscillating hinge
1600.Ø.01F	1600.Ø.02F	1600.Ø.03F
from Ø 25 to Ø 32 from Ø 40 to Ø 63	from Ø 25 to Ø 63	from Ø 25 to Ø 63
		
Sensor brackets codes 1600._, SRS._, SHS._	Sensor brackets codes 1580._, MRS._, MHS._	Sliding shoes guide
1600.A	1600.B	1600.Ø.05F
		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
		

CABLE CYLINDERS
(series 1600, chapter 4)

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



5 - Manipulation



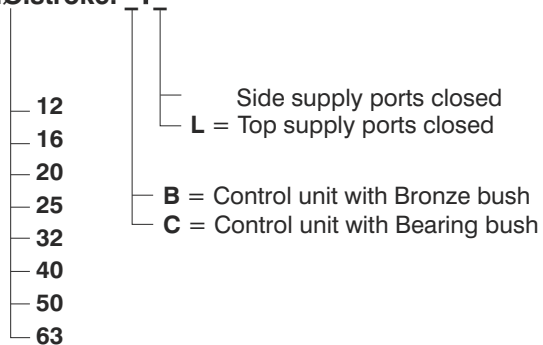
Guided compact cylinders, series 6100	1
Pneumatic slide units, series 6200-6210	1
Pneumatic gripper, series 6300	2
Rotary actuators, series 6400	3
Vane type rotary actuators, series 6420	3
Arbitrary mount cylinders, series 6500	3
Slide cylinders, series 6600	4
Guide cylinders, series 6700	4
Dampers, series 6900	4

Self lubricating bronze bushes Bearing bushes



Ordering code

6100.Ø.stroke.



Standard strokes

Bore Ø12 and Ø16: 10-20-30-40-50-75-100

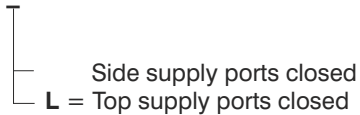
Bore Ø20 and Ø25: 20-30-40-50-75-100-125-150-175-200 mm

Bore Ø32 and Ø63: 25-50-75-100-125-150-175-200 mm

Heavy duty Guided short stroke cylinder



6101.80.stroke. B



Standard strokes

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

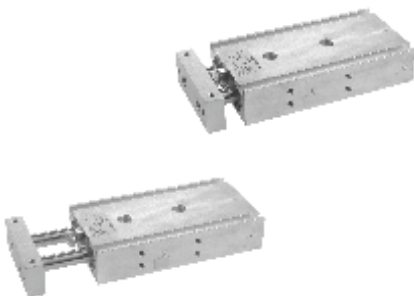
PNEUMATIC SLIDE UNITS

(series 6200-6210, chapter 5)

5

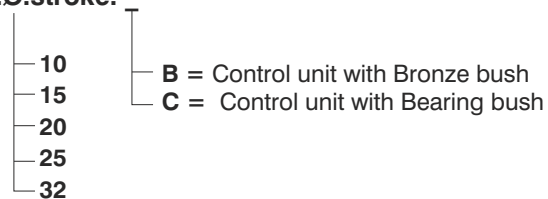
MANIPULATION

Twin rod slide units



Ordering code

6200.Ø.stroke.



Standard strokes

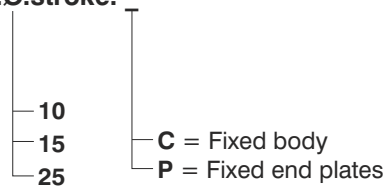
Bore Ø10: 10-15-20-25-30-35-40-45-50-60-70-75 mm

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.



Standard strokes

Bore Ø10: 25-50-75-100 mm

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

**Angular grippers
Standard version**



Ordering code

6301.Ø.

10
16
20
25

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

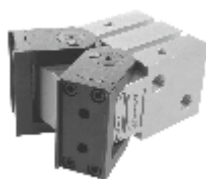
**Angular grippers
180° angular version**



6302.Ø.D

10
16
20
25

**Angular grippers
180° angular version
Rack & pinion style**



6303.Ø.D

20
25
32
40
50

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

**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					

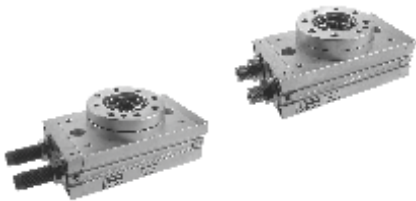
**Angular grippers
3 Fingers parallel style pneumatic**



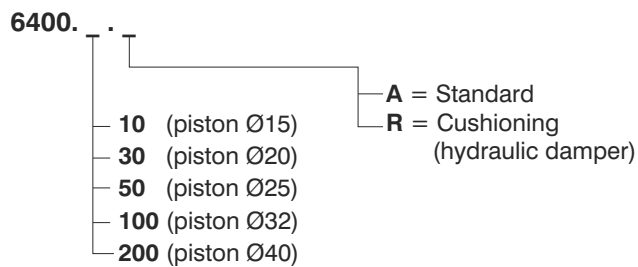
6312.Ø.D

16
20
25
32
40
50
63
80
100
125

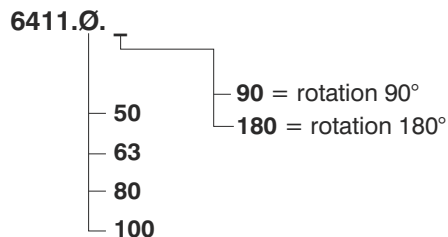
Double rack Rotary actuators with turn table



Ordering code



Single rack Rotary actuators



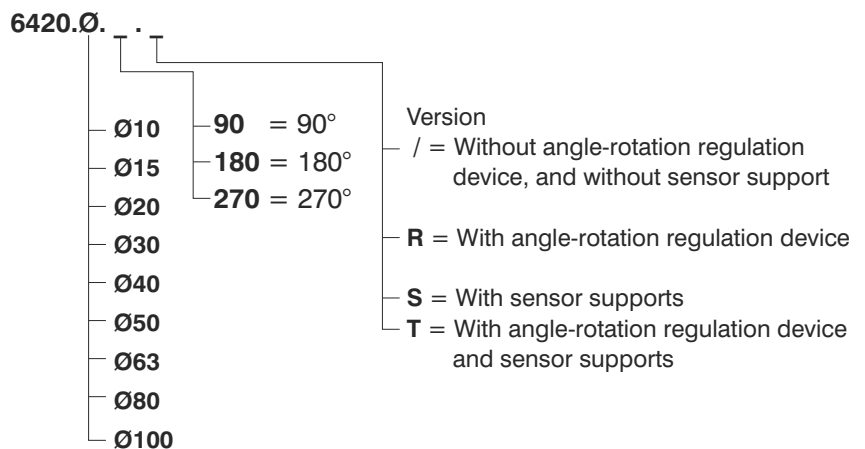
VANE TYPE ROTARY ACTUATORS

(series 6420, chapter 5)

Vane type rotary actuators



Ordering code



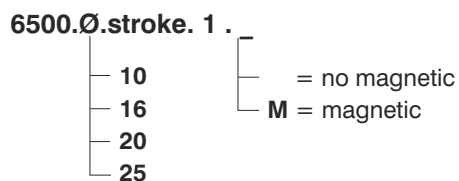
ARBITRARY MOUNT CYLINDERS

(series 6500, chapter 5)

Arbitrary mount cylinders



Ordering code



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



Magnetic sensor for cylinders with REED TYPE	1
Magnetic sensor for cylinders with HALL TYPE	2

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

Automation Equipment Ltd

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www.autoequip.co.nz

Slide cylinders



Ordering code

6600.Ø.stroke. _ _ _

- 8 — = Without accessories
- 12 — A = Double regulation end stroke
- 16 — AU = Regulation front end stroke
- 20 — AR = Regulation rear end stroke
- 25 — 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

(series 6700, chapter 5)

Guide cylinders



Ordering code

6700.Ø.stroke

- 10 —
- 16 —
- 20 —

Standard strokes
Bore Ø10 Ø16 Ø20
5-10-20-30-40-50-60

DAMPERS

(series 6900, chapter 5)

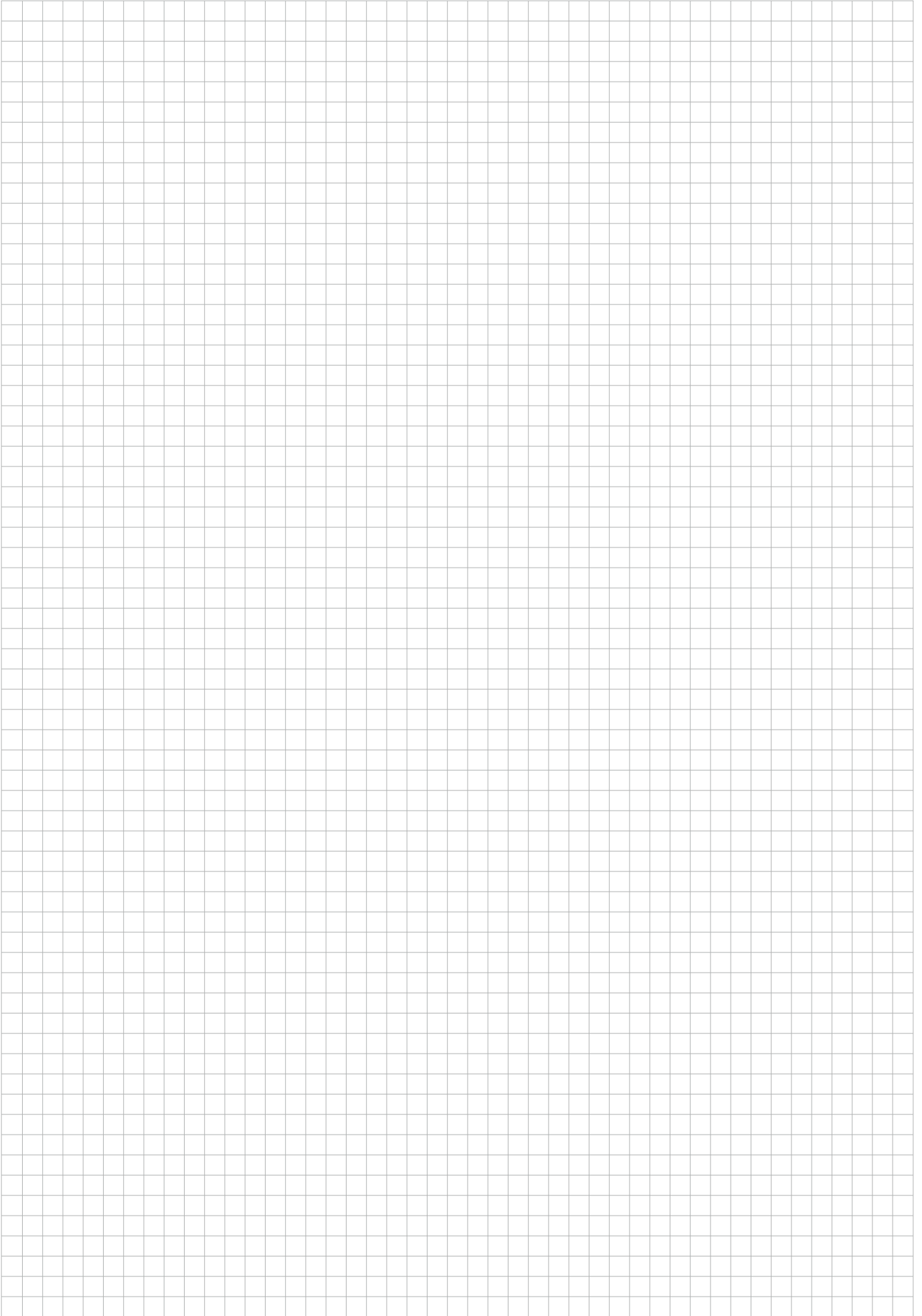
Dampers



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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