

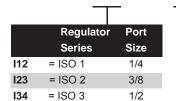


00

Sandwich Pressure Regulators ISO 1; ISO 2 and ISO 3 Series • Overview

How to Order: (example)

123



Pressure
Range
1 = 0.7 to 9 bar
3 = 0.2 to 2 bar
4 = 0.35 to 4 bar
6 = 1.4 to 17 bar

Type

0 = Regulator

Bases*

RS	= Single type for
	nort "1" regulation

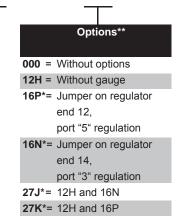
Regulator

Type

- RD* = Dual type for "3" and "5" regulation
- NS**= Single type, piston design for "1" port regulation
- ND**= Dual type, piston design for "1" and "3 regulation
- * Not available with sandwich speed controls
- ** only for Series ISO 3, with pressure range 1.4 to 17 bar

00 = Without base

- **1A** = Mounted on manifold block form C
- 11 = Mounted on connector plate form E, incl. mounting block "1A"
- **15** = Mounted on manifold block with side and bottom ports
- 25 = Mounted on sandwich speed control and manifold block "15"
- 41 = Mounted on individual base form A
- 56 = Mounted on individual base form B
- **58** = Mounted on sandwich speed control and individual base "56"
- * On request: other bases



Base Ports

0 = Regulator unit only (Only Series ISO 3, Regulatortype NS and ND)

* only with dual regulator

** Other options: on request

- **P** = Regulator unit only or bases with NPTF- thread
- Q = Bases with G-thread



single regulator (RS.. NS..)



dual regulator with individual base form A (RD., ND.,)

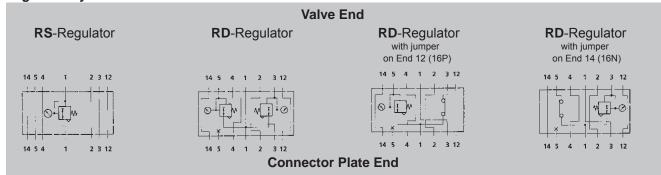
Order example: I23RD1000P16N00

This refers to a double sandwich pressure regulator of ISO 2 series. The pressure range is 0.7 to 9 bar.

The regulator is equipped with a jumper on regulator end 14, port "3" regulation.

The regulator is supplied without base.

Regulator Symbols

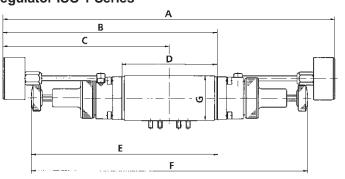


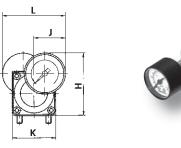




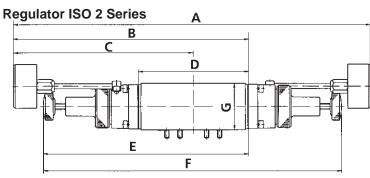
Sandwich Pressure Regulators ISO 1; ISO 2 and ISO 3 Series • Dimensions Sandwich Pressure Regulator, Single or Double Actuated

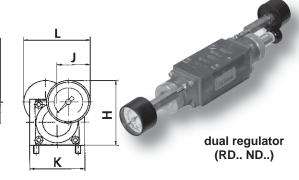


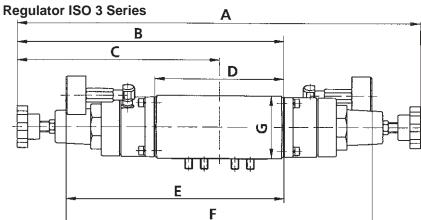


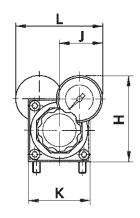












Dimensions [mm]

	Dillicits	إنتنتنا فتتاما	J										
Series	Туре	Α	В	С	D	Е	F	G	Н	J	K	L	Weight approx. [kg]
ISO 1	I12RS	_	204.7	158.8	92.0	180.0	_	43.2	60.0	37.5	42.0	_	0.600
ISO 1	I12RD	317.6	_	158.8	92.0	_	268.0	43.2	60.0	37.5	42.0	75.0	0.800
ISO 2	123RS	_	212.7	162.8	100.0	188.0	_	43.2	60.0	37.5	50.0	_	0.700
ISO 2	123RD	325.6	_	162.8	100.0	_	276.0	43.2	60.0	37.5	50.0	75.0	0.900
ISO 3	I34RS/NS	_	280.0	218.8	134.0	226.0	_	66.7	81.8	48.9	64.0	_	1.700
ISO 3	I34RD/ND	423.6	_	218.8	134.0	_	318.0	66.7	81.8	48.9	64.0	97.8	2.320

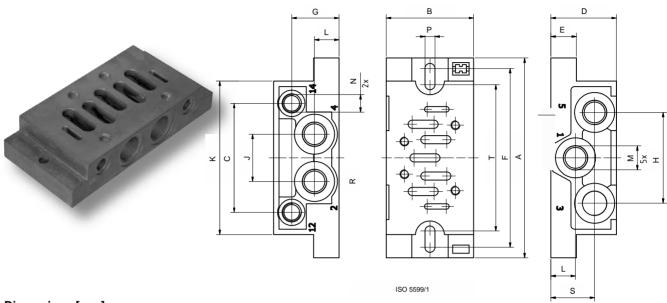
incl. bolts, gaskets and gauge





Accessories

Individual Base Form A to VDMA 24345, with Side Ports



Dimensions [mm]

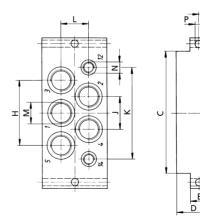
Series	Α	В	С	D	E	F	G	Н	J	K	L	M	N	Р	Q	R
ISO 1	110.0	48.0	84.5	36.0	14.0	89.0	26.0	50.0	26.0	60.0	13.5	G 1/4	G 1/8	5.5	15.0 / 0.3	19.00 (5X)
ISO 2	124.0	57.0	95.0	40.0	13.0	113.0	31.0	56.0	30.0	74.0	15.0	G 3/8	G 1/8	6.5	15.0 / 0.3	
ISO 3	149.0	71.0	119.0	32.0	18.0	136.0	22.0	68.0	32.0	90.0	17.0	G 1/2	G 1/8	6.5	15.0 / 0.3	

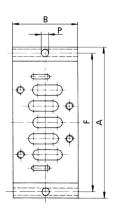
Series	S	Т	Weight	Order	
			app. [kg]	Code	
ISO 1	24.0	80.0	0.200	103-544	
ISO 2	25.0	103.0	0.300	103-549	
ISO 3	-	-	0.400	103-545	

On request: individual bases with NPTF-thread

Individual Base Form B to VDMA 24345, with Bottom Ports







Subject to change without notice. Not liable for printing errors

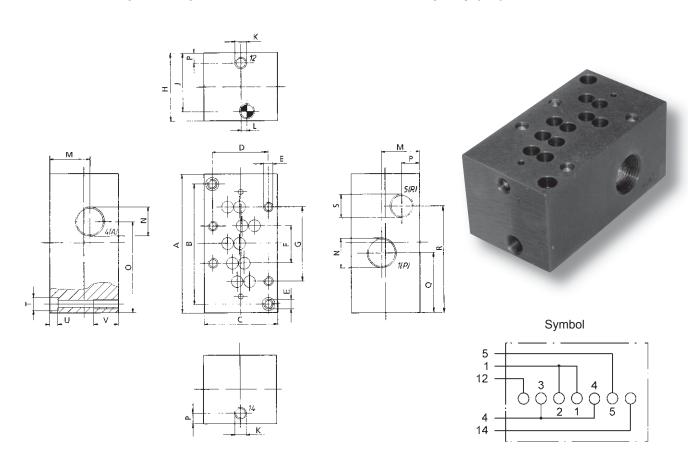
Series	Α	В	С	D	Ε	F	G	Н	J	K	L	M	N	Р	Weight	Order
														а	pprox. [kg] Code
ISO 1	110.0	46.0	84.0	30.0	10.0	98.0	5.0	46.0	23.0	62.0	23.0	G 1/4	G 1/8	5.5	0.190	103-542
ISO 2	124.0	56.0	95.0	35.0	13.0	112.0	6.5	56.0	26.0	74.0	27.0	G 3/8	G 1/8	6.6	0.320	103-557
ISO 3	149.0	64.0	119.0	32.0	18.0	136.0	9.0	64.0	32.0	90.0	27.0	G 1/2	G 1/8	6.6	0.410	103-543
On requ	On request: individual bases with NPTF-thread															





Accessories

Individual Base 3-ported, 2-pos. Function, with Increased Flow Capacity (NC)



Dimensions [mm]

Series	Α	В	С	D	Е	F	G	Н	J	K	L	M	N	0	
ISO 3	120.0	100.0	64.0	48.0	M8	32.0	64.0	59.5	50.5	G 1/8	5.0	34 0	G 3/4	79.0	

Series	Р	Q	R	S	T	U	٧	Weight	Order
					Ø			approx. [kg]	Code
ISO 3	9.0	52.0	92.0	G 1/2	11.0	8.0	20.0	1.065	10.4935
On requests in	ndividual had	coc with N	JDTE thr	oad					

Without picture: Individual bases

Subject to change without notice. Not liable for printing errors

Symbol	Description	Ports	Length	Width	Height	Weight	Order
						approx. [kg]	Code
5	Individual base						
12 0000000	with increased ow capacity	"1" + "4" = G 3/8					
4 2 1 5	ISO 1 series	"5" = G 1/4	110.0	45.0	45.0	0.500	239-357
	Individual base						
_	for poppet valves	"1", "4" + "5" = G 1/2					
	ISO 3 series		120.5	70.0	69.5	1.400	13.7964

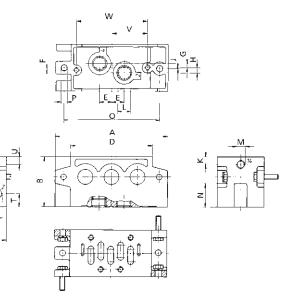


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Accessories

Manifold Block with Side and Bottom Ports





Dimensions [mm]

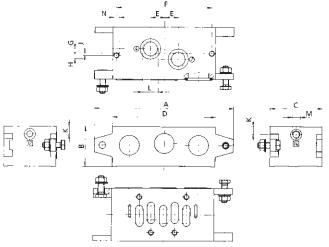
Series	Α	В	С	D	Е	F	G	Н	J	K	L	M	N	0
ISO 1	110.0	50.0	43.0	84.0	13.0	3.0	1.5	7.5	1.2	10.0	G 1/4	G 1/8	23.0	95.0
ISO 2	135.0	60.0	56.0	98.5	15.0	3.0	5.0	6.0	1.0	9.0	G 3/8	G 1/8	28.0	115.0
ISO 3	190.0	66.0	71.0	140.0	19.0	3.0	6.0	8.0	1.3	9.5	G 1/2	G 1/8	32.0	168.0

Series	Р	R	S	Т	U	V	W	Weight	Order
								approx. [kg]	Code
ISO 1	5.4	9.5	12.0	13.0	10.0	35.5	71.0	0.400	239-241
ISO 2	6.6	13.0	15.0	16.0	9.0	43.0	86.0	0.600	239-245
ISO 3	8.6	16.5	19.0	18.0	9.5	65.0	130.0	1.200	239-249
incl. bolts and	gaskets								

On request: individual bases with NPTF-thread

Manifold Block Form C to VDMA 24345, with Bottom Ports





Dimensions [mm]

		-												
Series	Α	В	С	D	Е	F	G	Н	J	K	L	M	N	Weight Order
														approx. [kg] Code
ISO 1	110.0	44.0	43.0	85.0	13.0	71.0	1.5	7.5	3.0	9.0	G 1/4	G 1/8	M5	0.300 239-239
ISO 2	135.0	45.0	56.0	98.5	15.0	86.0	5.0	6.0	3.0	9.0	G 3/8	G 1/8	M6	0.400 239-243
ISO 3	190.0	54.0	71.0	140.0	19.0	130.0	6.0	8.0	3.0	10.0	G 1/2	G 1/8	M8	0.800 239-247
incl. bolt	s and gas	skets												

On request: individual bases with NPTF-thread





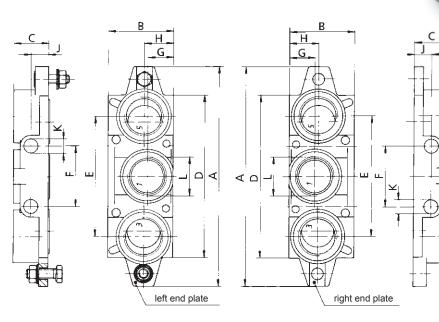
Accessories

Without picture: Manifold blocks

Dimensions [mm]

Symbol	Description	Length	Width	Height	Weight approx. [kg]	Order code
12 4 14 	Manifold block with increased ow capacity				11 1 31	
	ISO 1 series	110.0	43.0	50.0	0.550	239-353
3 0	Manifold block					
2	with increased ow capacity (NC)					
101	ISO 2 series	135.0	56.0	59.0	1.010	239-902
40	Manifold block					
	with increased ow capacity (NC)					
3 3	ISO 3 series	190.0	71.0	74.0	1.700	10.6062
1 - 1	Manifold block					
5 5	with increased ow capacity					
	ISO 2 series	95.0	50.0	49.5	0.650	10.5070
3 1 5	Manifold block					
5	with port "1" locked (NC)					
1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ISO 2 series	190.0	88.0	70.0	2.200	10.6915





Dimensions [mm]

Subject to change without notice. Not liable for printing errors

Series	Α	В	С	D	E	F	G	Н	J	K	L	Weight approx. [kg]	Order Code
ISO 1	110.0	46.0	22.0	85.0	56.0	28.0	22.0	25.0	11.0	7.0	G 3/8	0.300	239-257
ISO 2	135.0	47.0	26.0	98.5	70.0	35.0	23.0	25.0	13.0	9.0	G 1/2	0.400	239-255
ISO 3	190.0	56.0	30.0	140.0	104.0	52.0	22.0	25.0	15.0	12.0	G 1	0.700	239-259
incl. bolts and	gaskets												

On request: end plate kits with NPTF-thread

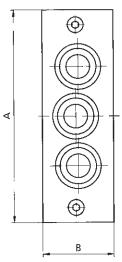


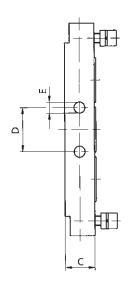


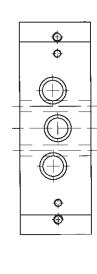
Accessories

Adapter Plates for mounting different ISO Valves









Dimensions [mm]

ISO-Series Lefthand Side	ISO-Series Righthand Side	Α	В	С	D	E	Weight approx. [kg]	Order Code
ISO 1	ISO 2	135.0	45.0	19.0	28.0	7.0	0.900	239-186
ISO 1	ISO 3	190.0	55.0	32.0	28.0	7.0	1.100	239-149
ISO 2	ISO 1	135.0	45.0	19.0	28.0	7.0	0.900	239-181
ISO 2	ISO 3	190.0	55.0	32.0	35.0	9.0	1.100	239-179
ISO 3	ISO 1	190.0	55.0	32.0	28.0	7.0	1.100	239-152
ISO 3	ISO 2	190.0	60.0	40.0	_	_	1.100	239-183

incl. bolts and gaskets

Adapter plates (without picture)

Dimensions [mm]

Symbol	Description	Length	Width	Height	Weight approx. [kg]	Order Code
5 5 1 3 3	Adapter plate with side ports ISO 1 series on ISO 3 series	190.0	55.0	55.0	1.550	239-177
	Adapter plate with G 3/4 ports top and bottom ISO 3 series on ISO 1 series	190.0	55.0	55.0	1.550	10.6394

Intermediate plates (without picture)

Dimensions [mm]

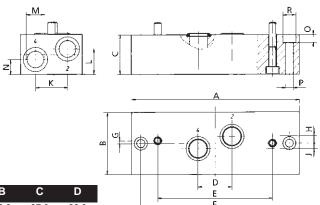
Symbol	Description	Ports "1" "3" "5"	Length	Width	Height	Weight approx. [kg]	Order Code
5 5	Mid plate ISO 1 series	G 1/4	110.0	29.0	40.0	0.040	10.5239
3	Mid plate ISO 2 series	G 3/8	135.0	30.0	50.0	0.500	10.5688
3 1 5	Mid plate ISO 3 series	G 3/4	190.0	40.0	60.0	1.070	239-182





Accessories

Connector Plate Form E to VDMA 24345, with Side and Bottom Ports





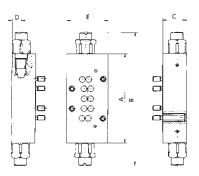
Dimensions [mm]

Series	Α	В	С	D
ISO 1	110.0	42.0	37.0	26.0
ISO 2	135.0	55.0	40.0	30.0
ISO 3	190.0	70.0	45.0	38.0

Series	E	F	G	Н	J	K	L	М	N	0	Р	R	Weight	Order
													approx. [kg]	Code
ISO 1	71.0	95.0	3.0	7.5	1.5	22.0	25.0	G 1/4	12.0	5.7	5.5	10.0	0.500	239-143
ISO 2	86.0	115.0	3.0	6.0	5.0	29.0	26.0	G 3/8	14.0	6.8	6.6	11.0	0.800	239-180
ISO 3	130.0	168.0	3.0	8.0	6.0	36.0	29.0	G 1/2	17.0	9.0	9.0	15.0	1.600	239-144
incl holts	s and dag	skets												

On request: connector plates with NPTF-thread

Sandwich Speed Control

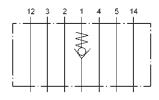


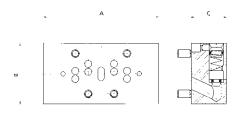


Series	Α	В	С	D	E	Weight	Order Code	
ISO 1	89.0	126.5	24.5	12.5	42.0	approx. [kg] 0.600	239-321	
ISO 2	110.0	169.0	29.5	11.0	50.0	0.700	239-322	
ISO 3	128.0	188.0	34.5	14.0	64.0	0.900	239-323	
incl. stud	s and ga	skets						



Non-Return Plate for Port 1





Dimensions [mm]

Difficition								
Series	Α	В	С	Weight	Order			
				approx. [kg]	Code			
ISO 1	80.0	42.0	24.5	0.500	239-324			
ISO 2	96.0	50.0	29.5	0.600	239-325			
ISO 3	120.0	69.0	38.5	0.700	239-326			
incl. studs and gaskets								



487



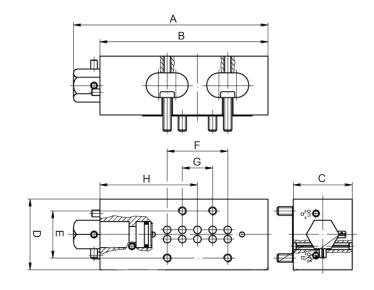


Accessories

Valve Isolating Plate

Valve side

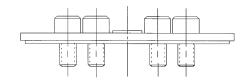




Dimensions [mm]

Series	Operating pressure	Α	В	С	D	E	F	G	Н	Weight approx. [kg]	Order Code
ISO 1	vacuum to 10 bar*	116	100	35	42	28	36	18	58	0.452	10.6328
ISO 2	vacuum to 10 bar*	122	106	40	50	25	55	25	58	on request	10.8071
ISO 3	vacuum to 10 bar*	159	143	40	64	40	64	32	78	on request	10.7389
*Higher press	*Higher pressures on request.										

Blank Station Plate





Series	Weight	Order
	approx. [kg]	Code
ISO 1	0.100	239-150
ISO 2	0.200	239-178
ISO 3	0.300	239-153
incl_holts and gaskets		

Blocking Disc



Series	Order
	Code
ISO 1	239-1598*
ISO 2	239-2263*
ISO 3	239-253*
* incl. o-ring	





Accessories

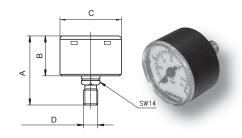
Gauge for Sandwich Pressure Regulator

Dimensions [mm]

Pressure Range	Α	В	С	D	Weight	Order
			Ø		approx. [kg]	Code
0 to 2.5 bar	42.0	26.0	40.0	R 1/8	0.040	214-151
0 to 4 bar	42.0	26.0	40.0	R 1/8	0.040	214-152
0 to 10 bar	42.0	26.0	40.0	R 1/8	0.040	214-153
0 to 16 bar	42.0	26.0	40.0	R 1/8	0.040	214-154

On request: other pressure ranges

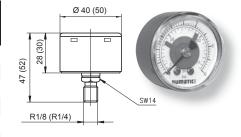
On request. Other pressu	re ranges					
Pressure Range	A	В	C Ø	D NPTF	Weight approx. [kg]	Order Code
0 to 2.5 bar	42.0	26.0	40.0	1/8	0.040	214-138
0 to 4 bar	42.0	26.0	40.0	1/8	0.052	214-139
0 to 10 bar	42.0	26.0	40.0	1/8	0.040	214-140
0 to 16 bar	42.0	26.0	40.0	1/8	0.052	214-141



Gauge for Sandwich Pressure Regulator with adjustable Scale

Dimensions [mm]

R	Weight approx. [kg]	Order Code
1/8	0.040	214-274
1/4	0.052	214-275
1/4	0.052	214-276
1/4	0.052	214-277
1/8	0.040	214-278
1/8	0.040	214-279
	1/8 1/4 1/4 1/4 1/8	[kg] 1/8 0.040 1/4 0.052 1/4 0.052 1/4 0.052 1/8 0.040



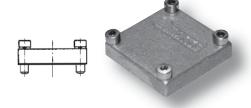
On request: Gauges with adjustable Scale and G-thread

Jumper Plate for Sandwich Pressure Regulator "RD/ND"

Description	Series	Weight approx. [kg]	Order Code
Jumper plate option "16P" or "16N"	ISO 1+ISO 2	0.035	239-363
Jumper plate option "16P" or "16N"	ISO 3	0.105	239-364

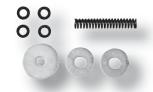
incl. bolts and gaskets

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Without picture: Jumper Plate to Mount on Sandwich Pressure Regulator

Symbol	Description	Length	Width	Height		Order
	Jumper plate,				approx. [kg]	Code
	connecting "1" to "2" and "4"					
!	ISO 1 series	74.0	42.0	10.0	0.100	10.5267
	Jumper plate,					
	connecting "1" to "2" and "4"					
!	ISO 2 series	90.0	50.0	10.0	0.130	10.6118
	Jumper plate,					
1	connecting "1" to "2" and "4"					
	ISO 3 series	120.0	66.0	10.0	0.244	10.5826
. — . — . — . —	Jumper plate,					
	connecting "2" to "3" and "4" to "5"					
	ISO 1 series	65.0	40.0	12.0	0.100	10.6847
	Jumper plate,					
:	connecting "2" to "3" and "4" to "5"					
	ISO 3 series	120.0	66.0	10.0	0.244	10.6065





Accessories

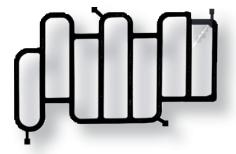
Spare Part Kits for Valves











ISO 1; ISO 2 and ISO 3 Series

Valve Type		Order Code				
	ISO 1	ISO 2	ISO 3			
BA4 / ZA4 PA4 / JA4	I1B-K1	I2B-K1	I3B-K1			
BB4 / ZZ4 PP4 / JJ4	I1B-K2	I2B-K2	I3B-K2			
BB5 / 6 / 7 / ZZ5 / 6 / 7 PP5 / 6 / 7 / JJ5 / 6 / 7	I1B-K3	I2B-K3	I3B-K3			
BW4 / ZW4	I1B-K4	I2B-K4	I3B-K4			
SA4	I1S-K1	I2S-K1	13S-K1			
SS4	I1S-K2	12S-K2	13S-K2			
SS5 / 6 / 7	I1S-K3	I2S-K3	I3S-K3			
incl. Gasket, O-Rings, Spring or E	Bumper					

ISO 1; ISO 2 and ISO 3 Compact Series

Valve Type	Order Code				
	ISO 1	ISO 2	ISO 3		
BA4 / ZA4 PA4	C1B-K1	C2B-K1	C3B-K1		
BB4 / ZZ4 / PP4	C1B-K2	C2B-K2	C3B-K2		
BB5 / 6 / 7 / ZZ5 / 6 / 7 PP5 / 6 / 7	C1B-K3	C2B-K3	СЗВ-КЗ		
BW4 / ZW4	C1B-K4				

incl. Gasket, O-Rings, Spring or Bumper

Poppet Valves Series ISO 3

Valve Type	Order Code
	Series ISO 3
G34B	G3B-K1
G34P	G3P-K1
incl O-Rings gaskets spring	

Slow-Start-Valve

Valve-Type	Order Code
P01794000	40.7069

Spare Part Kits for Regulators



Series	Туре	Order Code		
ISO 1	I12RS / I12RD		229-640	
ISO 2	I23RS / I23RD		229-640	
ISO 3	134RS / 134RD	< Nov. 2004	229-907	
ISO 3	134RS / 134RD	> Nov. 2004	239-2277	
ISO 3	134NS / 134ND		239-2259	





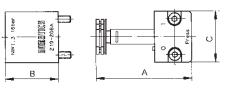
Accessories

Pilot Systems

Dimensions [mm]

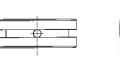
Туре	Α	В	С	Weight approx. [kg]	Order Code
10 bar, without					_
manual override	59.0	32.0	30.0	0.063	219-216
10 bar, non-locking					
manual override	59.0	32.0	30.0	0.063	219-217
10 bar, manual override					
push/locking	59.0	32.0	30.0	0.063	219-218
16 bar*, without					
manual override	59.0	32.0	30.0	0.063	219-219
16 bar*, non-locking					
manual override	59.0	32.0	30.0	0.063	219-220
16 bar*, manual override					
push/locking	59.0	32.0	30.0	0.063	219-221
16 bar*, non-locking manual override	59.0	32.0	30.0	0.063	219-489
* only available with 16 bar solenoid					





Exhaust Protection Screw

Description	Weight	Order
	approx. [gr]	Code
Exhaust protection screw for valve system	1.850	125-1027



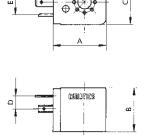


Plug-in Solenoids for Connector Sockets to DIN 43650, Form A, Type 30 mm

Dimensions [mm]

Voltage	Α	В	С	D	E	Weight	Order
					a	oprox. [kg]	Code
10 bar, 2.7 W							
24 VDC	35.5	30.0	30.0	9.0	18.8	0.10	225-354
10 bar, 5.2/3.9 VA							
24 VAC, 50-60 Hz	35.5	30.0	30.0	9.0	18.8	0.10	228-772
10 bar, 4.8/3.6 VA							
110 VAC, 50-60 Hz and	35.5	30.0	30.0	9.0	18.8	0.10	228-773
42/48/60 VDC, 2.5/3.4/5.3 W							
10 bar, 4.9/3.7 VA							
230 VAC, 50-60 Hz and	35.5	30.0	30.0	9.0	18.8	0.10	228-774
110 VDC, 3.9 W							
16 bar*, 6.8 W							
24 VDC and	35.5	30.0	30.0	9.0	18.8	0.10	225-355
48/42-V, 50-60 Hz, 9.9/7.1 VA							
16 bar*, 10.8/7.6 VA							
24 VAC, 50-60 Hz and	35.5	30.0	30.0	9.0	18.8	0.10	228-775
12 VDC, 7.8 W							
16 bar*, 10.5/7.6 VA							
110 VAC, 50-60 Hz and	35.5	30.0	30.0	9.0	18.8	0.10	228-776
48/60 VDC, 5.3/8.3 W							
16 bar*, 10.5/7.6 VA							
230 VAC, 50-60 Hz and	35.5	30.0	30.0	9.0	18.8	0.10	228-777
110 VDC, 6.3 W							





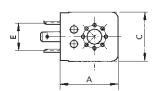
^{*} only available with 16 bar pilot system



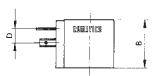


Accessories

Solenoids to DIN EN 175301-803 (before DIN 43650) Form A, with UL- and CSA-Approval, Type 30 mm



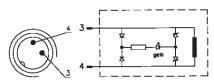




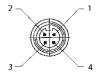
Dimensions [mm]

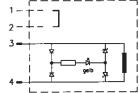
Voltage	Α	В	С	D		Weight	Order Code
10 bar, 2.7 W ; 24 VDC	35.5	30.0	30.0	9.0	18.8	0.10	225-480
10 bar, 4.9/3.6 VA; 110 VAC, 50-60 Hz	35.5	30.0	30.0	9.0	18.8	0.10	228-792

Solenoids to ISO 20401 with M12 Connector and LED or M12 DESINA Standard Connector and LED, Type 30 mm



2 Pin M12 Connector with LED

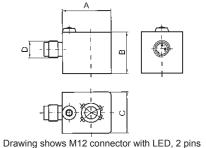




4 Pin M12 DESINA Standard connector with LED







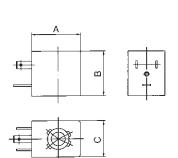
(same dimensions)

Dimensions [mm]

Description	Voltage	Α	В	С	D a	Weight approx. [kg	Order g] Code
M12 connector	10 bar,						
with LED, 2 pins	24 VDC, 2.7 W	38.4	29.5	30.0	M12x1	0.110	225-485
M12 connector	16 bar*,						
with LED, 2 pins	24 VDC, 6.8W	38.4	29.5	30.0	M12x1	0.110	225-486
M12 connector	10 bar,						
DESINA standard, 4 pins	24 VDC, 2.7 W	38.4	29.5	30.0	M12x1	0.110	225-483
M12 connector	16 bar*,						
DESINA standard, 4 pins	24 VDC, 6.8 W	38.4	29.5	30.0	M12x1	0.110	225-484

^{*} only available with 16 bar 3-port., 2-pos. function NO pilot system

Solenoids to Industrial Standard, Type 22 mm





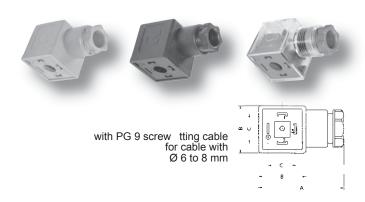
Voltage	Α	В	С	Weight approx. [kg]	Order Code
10 bar, 24 VDC, 4.8 W	28.8	29,5	22.0	0.054	225-479
10 bar, 24 VAC, 50-60 Hz; 8.5/6.9 VA	28.8	29,5	22.0	0.054	228-794
10 bar, 110 VAC. 50-60 Hz; 8.5/6.9 VA	28.8	29,5	22.0	0.054	228-791
10 bar, 230 VAC, 50-60 Hz; 8.5/6.9 VA	28.8	29,5	22.0	0.054	228-790

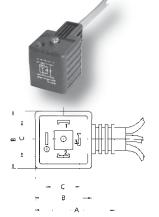




Accessories

Connector Sockets to DIN EN 175301-803 (before DIN 43650) Form A





with 2-m-cable

Technical Data and Dimensions [mm]

Nominal	Wiring		Colour	Peak Cut-off	Α	В	С	Weight	Order
Voltage	Туре	Diag	ıram	Voltage				approx. [kg]	Code
With PG 9 scr	ew fitting cable								
Up to 250 V	_	_	grey	unlimited	49.0	28.0	18.0	0.02	230-592
Up to 250 V	_	_	black	unlimited	49.0	28.0	18.0	0.02	230-593
10-50 V	LED red	а	transparent	unlimited	49.0	28.0	18.0	0.02	230-582
10-30 V	LED red + Varistor	b	transparent	65 V	49.0	28.0	18.0	0.02	230-567
70-250 V	LED red	а	transparent	unlimited	49.0	28.0	18.0	0.02	230-584
70-250 V	LED red + Varistor	b	transparent	440 V	49.0	28.0	18.0	0.02	230-585
10-30 V	LED green + Varistor	b	transparent	65 V	49.0	28.0	18.0	0.02	230-587
10-50 V	LED green	а	transparent	unlimited	49.0	28.0	18.0	0.02	230-586
70-250 V	LED green	а	transparent	unlimited	49.0	28.0	18.0	0.02	230-588
70-250 V	LED green + Varistor	b	transparent	440 V	49.0	28.0	18.0	0.02	230-589
With 2-m-cabl	е								
Up to 250 V	_	_	black	unlimited	44.0	27.5	18.0	0.20	230-412
24 V	LED yellow + Varistor	b	black	65 V	44.0	27.5	18.0	0.20	230-413
110 V	LED yellow + Varistor	С	black	260 V	44.0	27.5	18.0	0.20	230-414
230 V	LED yellow + Varistor	С	black	470 V	44.0	27.5	18.0	0.20	230-415

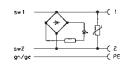
Circuit diagram "a"

Circuit diagram "b"

Circuit diagram "c"

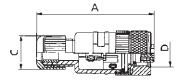


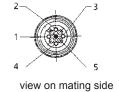




M12 Straight Female Connector









Dimensions [mm]

Subject to change without notice. Not liable for printing errors

Description	Α	В	С	D	Weight	Order
				a	pprox. [kg]	Code
M12 straight 5 nin female connector, without cable	52.5	20.0	S\N/10	M12v1	0 033	230-057

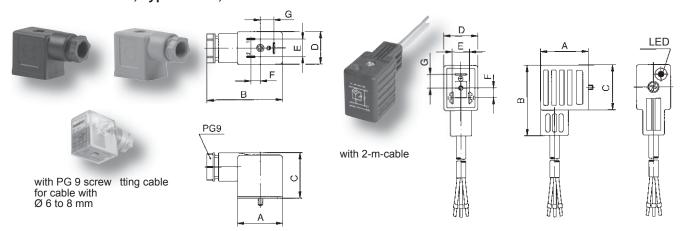
Pneumatic-Catalogue-GB-2008-10





Accessories

Connector Sockets, Type 22 mm, Industrial Standard



Technical Data and Dimensions [mm]

Nominal	Wiring		Colour	Peak cut-off	Α	E	3	С	D	Ε	F	Weight	Order
Voltage	Туре	Dia	gram	Voltage								approx. [kg] Code
With PG 9 sc	rew fitting cable												
Up to 250 V	_	_	grey	unlimited	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-363
Up to 250 V	_	_	black	unlimited	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-364
10-50 V	LED red	а	translucent	unlimited	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-391
10-30 V	LED red + Varistor	b	translucent	65 V	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-392
70-250 V	LED red	а	translucent	unlimited	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-393
70-250 V	LED red + Varistor	b	translucent	440 V	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-394
10-30 V	LED green + Varistor	b	translucent	65 V	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-400
10-50 V	LED green	а	translucent	nicht begrenzt	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-401
70-250 V	LED green	а	translucent	unlimited	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-402
70-250 V	LED green + Varistor	b	translucent	440 V	28.3	49.0	28.7	20.8	12.0	7.0	9.4	0.020	230-403
with 2-m-Cal	ole												
bis 250 V	_	_	black	unlimited	28.3	41.2	28.7	20.8	12.0	7.0	9.4	0.020	230-408
24 V	LED yellow + Varistor	b	black	65 V	28.3	41.2	28.7	20.8	12.0	7.0	9.4	0.020	230-409-xx
110 V	LED yellow + Varistor	b	black	260 V	28.3	41.2	28.7	20.8	12.0	7.0	9.4	0.020	230-410
230 V	LED yellow + Varistor	b	black	470 V	28.3	41.2	28.7	20.8	12.0	7.0	9.4	0.020	230-411

 \mathbf{xxm} = add the required cable length in \mathbf{m} (e. g. 230-409- $\mathbf{05m}$), standard lengths: 2, 5 and 10 m

Circuit diagram "a"

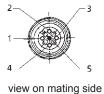


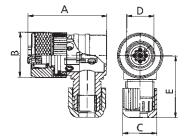
Circuit diagram "b"



M12 Elbow Female Connector







Subject to change without notice. Not liable for printing errors

Description	Α	В	С	D	Е	Weight	Order	
					а	pprox. [kg]	Code	
M12 elbow 5 pin female connector, without cable	35.0	20.0	SW19	M12x1	27.5	0.025	230-956	





Technical Information

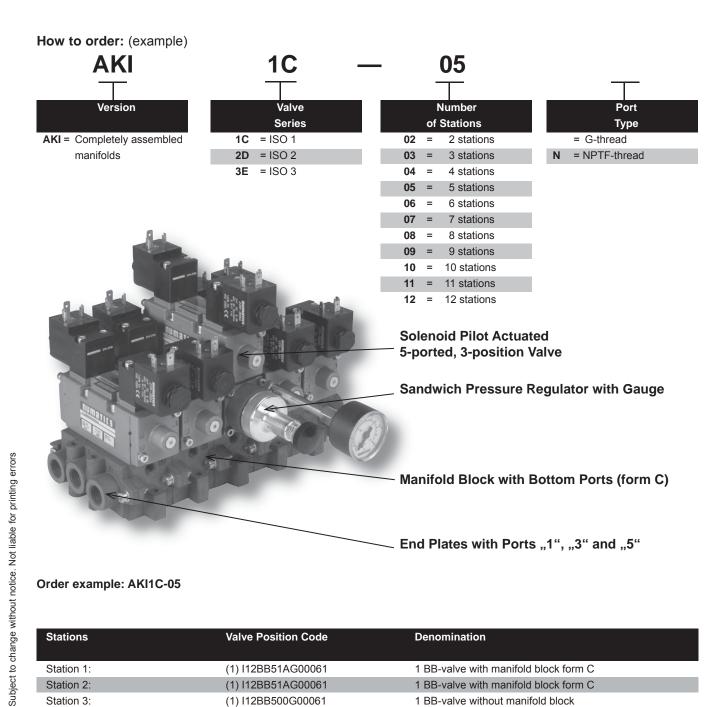
Completely Assembled Manifolds

All manifolds offer side and/or bottom cylinder ports.

These ports and the end plates are available with G-threads or NPTF-threads.

To order a completely assembled manifold, it is necessary to order the assembly kit and the valve or regulator required at each station. All kits are pre xed AKI, followed by the valve series, a dash and the number of stations. Put in "N" for NPTF-thread.

Select assembly kits from the following chart. A maximum of 12 stations is recommended.



Order example: AKI1C-05

Stations	Valve Position Code	Denomination
Station 1:	(1) I12BB51AG00061	1 BB-valve with manifold block form C
Station 2:	(1) I12BB51AG00061	1 BB-valve with manifold block form C
Station 3:	(1) I12BB500G00061	1 BB-valve without manifold block
	(1) I12RS11A0P00000	1 regulator with gauge and manifold block form C
Station 4:	(1) I12BB51AG00061	1 BB-valve with manifold block form C
Station 5:	(1) I12BB51AG00061	1 BB-valve with manifold block form C



Technical Information

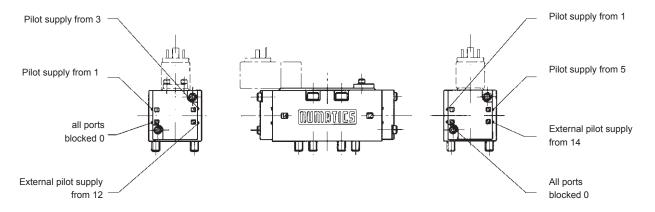
Conversion of Pilot Air Supply

Pilot Plugging Arrangements (only for type ISO1 / ISO2 / ISO3-valves)

Air pilot actuated valves are shipped with external pilot supply to ports 12 and 14.

All solenoid pilot actuated valves are shipped with internal pilot supply from port 1. If supply air is piped to ports 3 and 5, or if external pilot supply is required, the valve must be converted (for example, if an RD regulator is used).

Conversion is simple - remove the end caps and position the gasket so that the tab points toward the appropriate port number, install end caps. Please refer to the chart and drawing below.



Pile	ot Supply Options	Gasket Ta	Location
		"14" End	"12" End
1.	All air pilot actuated valves		
	External pilot to ports 12 and 14	0	0
2.	Single solenoid pilot actuated valves		
	a. Internal supply from port 1	1	0
	b. Internal supply from port 3	0	3
	c. Internal supply from port 5	5	0
	d. External pilot from port 14	14	0
	e. External pilot from port 12	0	12
3.	Double solenoid pilot actuated valves		
	a. Internal supply from port 1	1	1
	b. Internal supply from port 3	0	3
	c. Internal supply from port 5	5	0
	d. External pilot from port 14	14	0
	e. External pilot from port 12	0	12
	(00 11 11 11 11 11 11 11 11 11 11 11 11 1		

For use of RD-regulators, the pilot plugging arrangement is as described under b. and c.

Interface to ISO 5599/1

Dimensions [mm]

Series	Α	В	С	D	G ¹⁾	L ₁ min.	L _τ min.	Р
ISO 1	4.5	9.0	9.0	14.0	3.0	32.5	65.0	8.5
ISO 2	7.0	12.0	10.0	19.0	3.0	40.5	81.0	10.0
ISO 3	10.0	16.0	11.5	24.0	4.0	53.0	106.0	13.0

	Series	R	T ²⁾	W	Х	Y 3)	Cross-section
1		max.					Slots [mm²]
	ISO 1	2.5	M5x0.8	38.0	16.5	43.0	70.0
1	ISO 2	3.0	M6x1.0	50.0	22.0	56.0	143.0
	ISO 3	4.0	M8x1.25	64.0	29.0	71.0	269.0

1) G is the minimum width of the slots

2) The thread depth is at least twice the nominal threaded diameter

3) Dimension Y is the distance between the centrelines of adjacent blocks.

