

Product catalogue

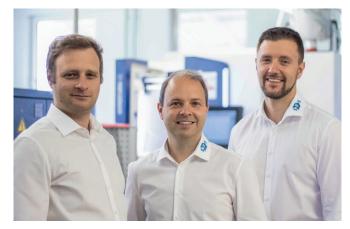
Version: 10/2021



Family business in second generation

We are a Tyrolean family business in the second generation specialized in pneumatic special solutions. Otto Staudacher founded the company in 1992. Today, his sons Michael, Franz and Hansjörg work together on the successful future of the company.

In the beginning, there was our founder Otto Staudacher's unconditional passion for technology. After two decades as an extremely successful distributor of technical components, he fulfilled his heart's desire in 1992: by founding SFS-Fluidsysteme, he developed special pneumatic solutions for the first time. The three-man operation of yesteryear has since developed into an internationally active family business with around 50 employees. Only one thing has remained the same: the passion with which we reliably find special solutions for the problems and needs of our customers.



Michael, Franz and Hansjörg Staudacher

Milestones of our success



1992

Foundation in 7irl-Dirschenbach



1999
Sales expanded with the establishment of SFS-Fluidsysteme GmbH in Esslingen



2000 First own CNC machine



2003
SFS becomes an apprenticeship company



2007
Extension in Polling



2011
Spin-off of solenoid valve division



2014
Change of managing director and award



2021
Family business in second generation

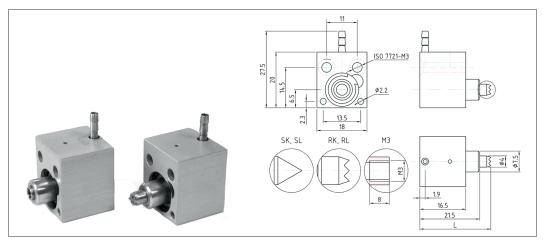
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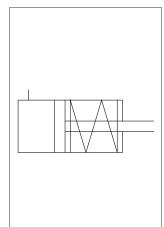
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Compact cylinder 12mm diameter



type AA12S-04-.., single acting





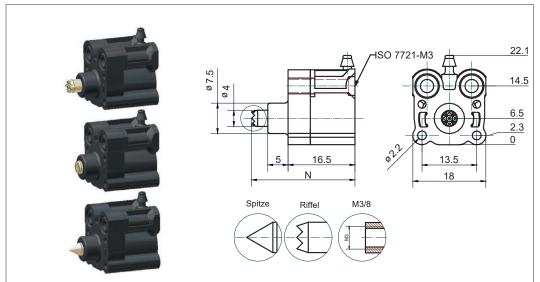
SPECIFICATION						
general						
construction	compact cy	linder, pneumatic, single actin	g, spring return, end	plate secured by C-clip		
bore	12 mm pist	on diameter				
stroke lengths	4 mm					
operation	pneumatic,	with spring return				
connections	hose tails f	or PA or PU 2 mm ID				
ambient temperature	-20°C to +8	30°C				
fluid temperature	-20°C to +8	-20°C to +80°C				
materials	body:	anodised aluminium	spring:	steel		
	piston:	brass (Ms58)	seals:	perbunan (NBR)		
	cover:	brass (Ms58)	hose tail:	brass (Ms58)		
	piston rod:	stainless steel				
cushioning	none					
mounting	fixing holes	s in body				
installation position	in any posi	tion				
magnetic sensors	none					
pneumatic						
air	filtered, lub	filtered, lubricated or non lubricated				
pressure range	3 to 10 ba	3 to 10 bar				
attainable force	38 N at 6	bar				
spring Return force	F1= 13 N,	F2= 25 N (friction not taken into	o account)			

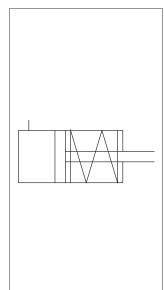
type	article-nr.	piston rod	L	weight (approx. g)
AA12S-04-SK	90 000 197	pointed short	21.5	19
AA12S-04-SL	90 000 198	pointed long	25.5	19
AA12S-04-RK	90 000 195	serrated short	21.5	19
AA12S-04-RL	90 000 196	serrated long	25.5	19
AA12S-04-M3	90 000 199	M3 female thread	22.5	19

Compact cylinder 12mm diameter



technopolymer type AA12S-04-.. , single acting





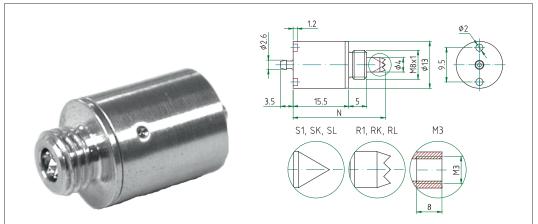
SPECIFICATION						
general						
construction	compact cylinder, single acting, spring re	turn				
bore	12mm piston diameter					
stroke lengths	4mm					
operation	pneumatic					
return	mechanical spring					
connections	hose tails for PA or PU with 2mm ID					
ambient temperature	-20°C to +60°C					
fluid temperature	-20°C to +60°C					
materials	body: thermoplastic	piston rod:	stainless steel			
	cover: thermoplastic	springs:	steel			
	piston: brass (Ms58)	seals:	perbunan (NBR)			
cushioning	none					
mounting	fixing holes in body					
installation position	as required					
magnetic sensor	non					
pneumatic						
air	filtered, lubricated or non lubricated					
pressure range	3 to 8 bar	3 to 8 bar				
attainable force	39 N at 6 bar					
spring return force	F1= 12 N, F2= 24 N (friction not taken int	o account)				

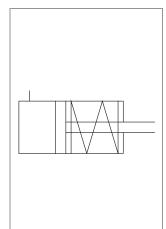
type	article-nr.	piston rod	N	weight (approx. g)
AA12S-04-SK	90 000 380	pointed short	21.5	8
AA12S-04-SL	90 000 381	pointed long	25.5	9
AA12S-04-RK	90 000 378	serrated short	21.5	8
AA12S-04-RL	90 000 379	serrated long	25.5	9
AA12S-04-M3	90 000 382	M3 female thread	22.5	8

Round cylinder

SFS

type AB12S-03-.. , single acting





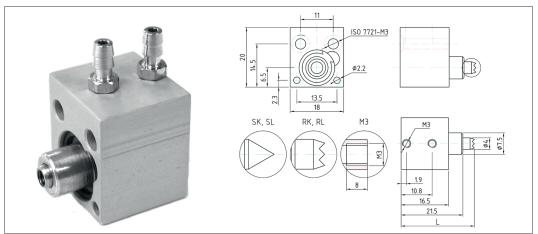
SPECIFICATION						
general						
construction	compact cylinder, pneumatic, single a	acting, spring return, press-fit end plate				
bore	12 mm piston diameter					
stroke length	3 mm					
operation	pneumatic, with spring return					
connections	hose tails for polyamide or polyuretha	ne tubes, inside diameter 1.5 - 2 mm				
ambient temperature	-20°C to +80°C					
fluid temperature	-20°C to +80°C					
materials	body: brass (Ms58)	piston rod: stainless steel				
	piston: brass (Ms58)	spring: steel				
	end plate: brass (Ms58)	seals: perbunan (NBR)				
cushioning	none					
mounting	neck mounting thread M8x1					
installation position	as required					
magnetic sensors	none					
pneumatic						
air	filtered, lubricated or non lubricated	filtered, lubricated or non lubricated				
pressure range	3 to 8 bar					
attainable force	43 N at 6 bar					
spring Return force	F1= 10N, F2= 20N (friction not taken	into account)				

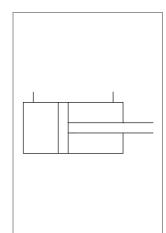
type	article-nr.	piston rod	N	weight (approx. g)
AB12S-03-S1	90 000 209	pointed S1	20.5	13
AB12S-03-SK	90 000 282	pointed short	21.7	13
AB12S-03-SL	90 000 283	pointed long	25.7	13
AB12S-03-R1	90 000 210	serrated R1	20.5	13
AB12S-03-RK	90 000 284	serrated short	21.7	13
AB12S-03-RL	90 000 285	serrated long	25.7	13
AB12S-03-M3	90 000 286	M3 female thread	22.7	13

Compact cylinder 10mm diameter



type AC10D-04 .., double acting





SPECIFICATION					
general					
construction	compact c	ylinder, pneumatic, double a	cting, end plate secured	by C-clip	
bore	10 mm pis	ton diameter			
stroke length	4 mm				
operation	pneumatic	, both directions			
connections	M3 female	(optional hose tail to be orde	ered separately)		
ambient temperature	-20°C to +8	30°C			
fluid temperature	-20°C to +8	30°C			
materials	body:	anodised aluminium	piston rod:	stainless steel	
	cover:	brass (Ms58)	seals:	NBR or polyurethane	
	hose tails:	nickel-plated brass			
cushioning	none				
mounting	fixing holes	s in body			
installation position	in any posi	tion			
magnetic sensors	none				
pneumatic					
air	filtered, lubricated or non lubricated				
pressure range	1 to 10 bar				
attainable force	at 6 bar: 4	2 N +, 34 N -			

type	article-nr.	piston rod	L	weight (approx. g)
AC10D-04-SK	90 000 278	pointed short	21.5	20
AC10D-04-SL	90 000 279	pointed long	25.5	20
AC10D-04-RK	90 000 280	serrated short	21.5	20
AC10D-04-RL	90 000 281	serrated long	25.5	20
AC10D-04-M3	90 000 273	M3 female thread	22.5	20

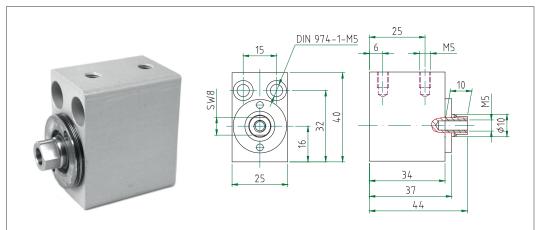
Accessories: hose tails M3 OD threads for PA or PU

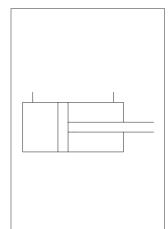
hose tail for tube inside diameter	article-nr.	washer	article-nr.
1.5 bis 2mm	10 000 931	M3	10 000 934
2.5 bis 3mm	10 000 932		

Compact cylinder 20mm diameter



type AD20D-.., double acting





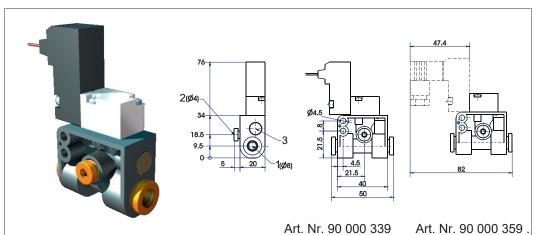
SPECIFICATION				
general				
construction	compact cylinder, pneumatic, double acting, with threaded end plate			
bore	20 mm piston diameter			
stroke length	5.5 or 10 mm ±0.05 mm			
operation	pneumatic, with pneumatic return			
port threads	M5 female			
ambient temperature	-20°C to +80°C			
fluid temperature	-20°C to +80°C			
materials	body: anodised aluminium cover: brass (Ms58)			
	piston rod: stainless steel seals: NBR or polyurethane			
cushioning	none			
mounting	fixing holes in body or piston rod.			
installation position	as required			
magnetic sensors	none			
pneumatic				
air	filtered, lubricated or non lubricated			
pressure range	1 to 8 bar			
attainable force	at 6bar: 180 N +, 135 N -			

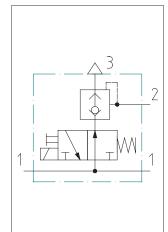
type	article-nr.	stroke	weight (approx. g)
AD20D-05.5	90 000 136	5.5	120
AD20D-10	90 000 137	10	120

3/2-way solenoid valve with integrated quick exhaust valve



type V01





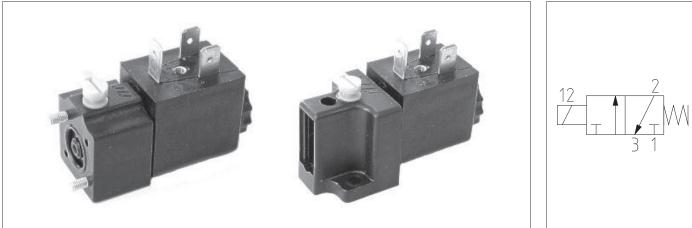
SPECIFICATION	
general	
type	3/2-way poppet valve, normal open, with integrated quick exhaust valve
operator	solenoid or bistable manual override
ports	inlet ports push in raccord diameter 8 mm (2 pieces),
	outlet port push in raccord diameter 4 mm, exhaust through silencer plate
ambient temperature	-20 °C to +60 °C
fluid temperature	-20 °C to +60 °C
material	valve body POM, seals NBR, internal parts POM and stainless steel, silencer plate bronze
mounting	2 holes
installation	in any position
electrical Data	
standard voltage	24V DC
special voltage	12V DC, 24V AC, 48V AC, 110V AC
voltage tolerance	± 10 %
power consumption	2,5 Watt
duty cycle	100 % ED
protection class	IP 54
electrical connection	flying leads, length 300 mm
pneumatic	
function	3/2 NO
fluid	filtered, lubricated or non lubricated air
operating pressure	0 – 7 bar
nominal flow	QNn: P -> A: 16 NI/min, A -> R: 125 NI/min (p1 = 6 bar, Δp = 1 bar)
nominal diameter	DN 0.8 mm
switch time	10 – 20 ms
max. operating Frequency	300 / min
special functions	valve instead 3/2 NO in 3/2 NC

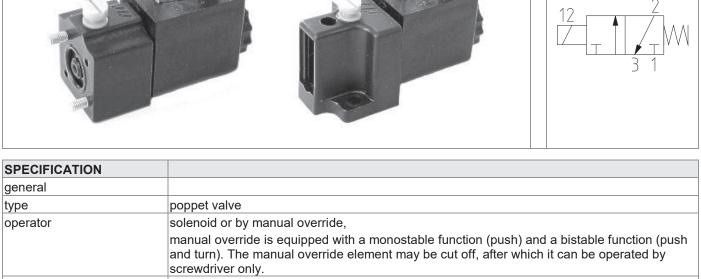
type	article-nr.	function	weight (approx. g)
V01	90 000 339	3/2 NO	80
	90 000 359	3/2 NO	85

Direct operated 3/2-way solenoid valve flanged



type V10C-.





general		
type	poppet valve	
operator	solenoid or by manual ove	rride,
		ed with a monostable function (push) and a bistable function (push rride element may be cut off, after which it can be operated by
Port	flanged	
ambient Temperature	-20°C to +50°C	
fluid Temperature	-20°C to +50°C	
material	body, manual override:	POM
	seals:	perbunan (NBR)
	internal parts:	brass, stainless steel
	coil:	encapsulated (polyamide)
mounting	with screws to subbase	
installation	in any position	
unit of supply		nge O-rings 2.31x1.5, 11.5x1.5, DIN 965-M3x23,5 crews DIN 7985-M4x10
electrical Data		
standard voltage	24V DC, 24V AC (50-60Hz	z), 110V AC (50-60Hz), 230V AC (50-60Hz),
special voltage	12 - 250V AC, 6 - 110V DC	
voltage tolerance	± 10%	
power consumption	AC: inrush 6VA, holdpowe DC: 2.6W (warm), 3W (col	
duty cycle	100%, continuous operation	on
protection class	IP65 with correctly mounte	ed connector according to DIN 40050
electrical connection	connector PG9 (see option	nals)

Direct operated 3/2-way solenoid valve flanged

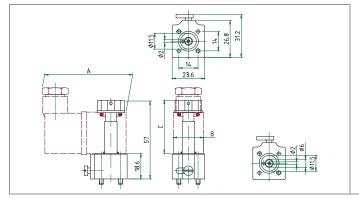


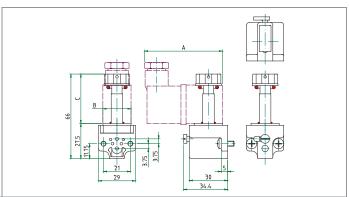
type V10C-.

pneumatic	
function	3/2 NC
fluid	filtered, lubricated or non lubricated compressed air
operating pressure	0 to 10bar
nominal flow	QNn (p ₁ =6bar, Δp=1bar) =43NI/min from P(1) to A(2),
nominal diameter	DN 1.2mm (body), DN 1.2mm (exhaust)
switch time	10 to 20ms
cycles per minute	max. 1200/min
specials	valves are also available with explosion proofed coils EExmIIT5 und T6, and with intrinsic safety version EExiaIICT6
special equipment	seals in FPM, function 2/2-NC, 2/2-NO, 3/2-NO
optionals	subbases for concentric and CNOMO mounting surfaces

TYP V10CA - B1212 - . D concentric mounting surface

TYP V10CB - B1212 - . D CNOMO - mounting surface





General information: pressure range 0 to 10bar, function 3/2 NC, Nominal diameter 1.2mm, exhaust orifice 1.2mm

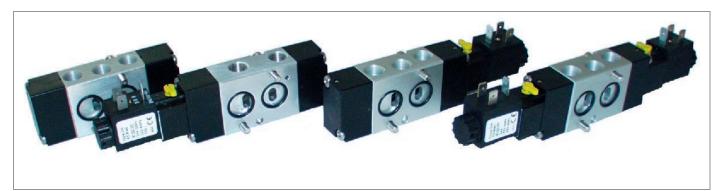
type	article-nr.	mounting surface	coil type	manual override	flow regulation P→A	A (mm)	B (mm)	C (mm)	weight without coil (approx. g)
V10CA-B1212-MD	90 000 063	concentric		yes	no	59	22	39	35
V10CA-B1212-OD	90 000 276	concentric		no	no	59	22	39	35
V10CB-B1212-MD	90 000 079	CNOMO	DA, DB	yes	no	59	22	39	40
V10CB-B1212-OD	90 000 078	CNOMO	DC, DD	no	no	59	22	39	40
V10CB-B1212-BD	90 000 080	CNOMO	DE, DW DX. DY	yes	yes	59	22	39	50
V10CB-B1212-AD	90 000 081	CNOMO	טא, טו	no	yes	59	22	39	50

Models for intrinsic safety coil EEXiaIICT6

type	article-nr.	mounting surface	coil type	manual override	flow regulation	A (mm)	B (mm)	C (mm)	weight without coil
					P→A				(approx. g)
V10CA-B1212-MD-0001	90 000 085	concentric	DZ	yes	no	67	30	39	35
V10CB-B1212-MD-0001	90 000 277	CNOMO	DZ	yes	no	67	30	39	50



type V46 ..., solenoid or pneumatic operated

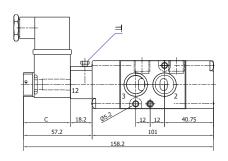


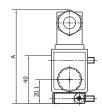
SPECIFICATION	
general	
type of construction	spool valve
operator	solenoid or pneumatic operated or by manual override. Manual override is equipped with a monostable function (push) and a bistable function (push and turn). The manual override element may be cut off, after which it can be operated by screwdrive only.
return	pneumatic spring, mechanical spring, solenoid operated, pneumatic operated
ports	ISO 228 /1-G 1/4
ambient temperature	-20°C to +60°C (EX-system -15°C to +50°C)
fluid temperature	-20°C to +80°C (EX-system -15°C to +50°C)
material	body and internal parts: aluminium, technical anodised, brass end caps reinforced: plastic seals: perbunan (NBR) and polyurethane (AU)
mounting	2 holes according NAMUR standard and according VDI / VDE 3845
installation	in any position
unit of supply	valve without coil, including 2 O-rings 16x2 mm, 1 set screw DIN 913-45H M5x10 mm, and 2 fixing screws M5x30
electrical data	
standard voltage	24V=, 24V/50, 110V/50 and 230V/50
special voltage	6V= to 110V=, and 12V to 254V, 50Hz or 60Hz
voltage tolerance	±10% for standard
power consumption	standard coil: AC inrush 6 VA, hold power 4,3 VA (warm) DC 2,6W (warm), 3W (cold)
duty cycle	100% ED (DB), continuous operation
protection class	IP65 with correctly mounted connector according to DIN 40050
electrical connection	connector Pg 9 (see optionals)
pneumatic	
function	3/2-way NC (V46C2), 5/2-way (V46K2), 5/3-NC (V46L2), 5/3-exhausted (V46M2) and 5/3-pressurized (V46N2)
fluid	filtered (50 micron), lubricated or non lubricated compressed air, also dried to a dew point of –20 °C
operating pressure	p _{min} see table, p _{max} =10bar
nominal flow	type V46-K2: QNn=1060NI/min, type V46C2: 1-2 QNn=1060 NI/min, 2-3 QNn=1060 NI/min, V46L2: QNn=850 NI/min, V46M2: QNn=850 NI/min, V46N2: QNn=850 NI/min
nominal diameter	DN 7mm
switch time	approx. 40ms
special equipment	explosion protected coil (different implementations)
optional extras	see page 7 and 8

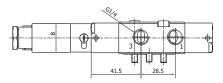


type V46 ..., solenoid or pneumatic operated

NAMUR-valve 3/2 way solenoid operated







Measures A, B, C please find on sheet of the coils type D.

Coils and connectors must be ordered separately.

type *	symbol	article-nr.	pressure (bar)	weight (approx. g)		
V46C2-15	12 3 2 W	90 000 502	2.5 - 10	210		
solenoid operated, return by mechanical spring						

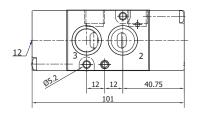
V46C2-16	3 2 Z	90 000 500	1.8 - 10	210		
standard valve, solenoid operated, return by pneumatic spring						

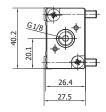
^{*} bold printed valves are preferred types

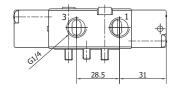


type V46 ..., solenoid or pneumatic operated

NAMUR-valve 3/2 way pneumatic operated







type *	symbol	article-nr.	pressure (bar)	weight (approx. g)		
V46C2-33	- 1 2- 1 3 1	90 000 507	1.0 - 10	200		
bistable valve, pneumatic operated, return by air						

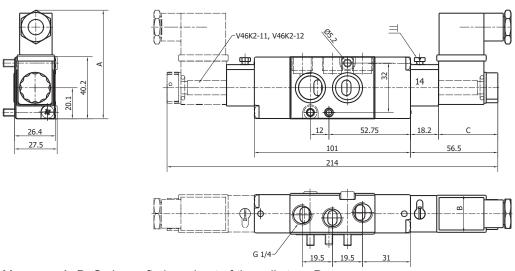
V46C2-35	- 12 W	90 000 508	2.5 - 10	200		
pneumatic operated, return by mechanical spring						
V46C2-36	3 2 	90 000 501	1.8 - 10	200		
pneumatic operated, return by internal air						

^{*} bold printed valves are preferred types



type V46 ..., solenoid or pneumatic operated

NAMUR-valve 5/2 way solenoid operated



Measures A, B, C please find on sheet of the coils type D.

Coils and connectors must be ordered separately.

type *	symbol	article-nr.	pressure (bar)	weight (approx. g)		
V46K2-11	14 2 12	90 000 490	1.0 - 10	230		
bistable valve, both directions solenoid operated						

V46K2-15	14 4 2	90 000 491	2.5 - 10	210		
monostable valve, solenoid operated, return mechanical spring						

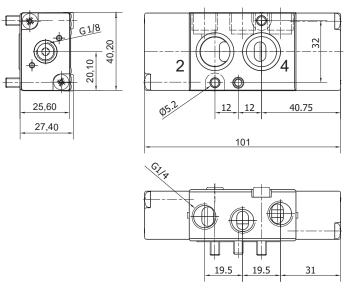
V46K2-16	14. 2 5 1 3 3 - 1	90 000 489	1.8 - 10	210		
monostable valve, solenoid operated, return pneumatic spring						

^{*} bold printed valves are preferred types



type V46 ..., solenoid or pneumatic operated

NAMUR-valve 5/2 way pneumatic operated



type *	symbol	article-nr.	pressure (bar)	weight (approx. g)	
V46K2-33	- 14 - 12 - 12 - 12 - 12 - 12 - 12 - 12	90 000 493	1.0 - 10	200	
bistable valve, pneumatic operated, return by air					

V46K2-35	- N 14 - 14 2 W	90 000 492	2.5 - 10	200	
pneumatic operated, return mechanical spring					

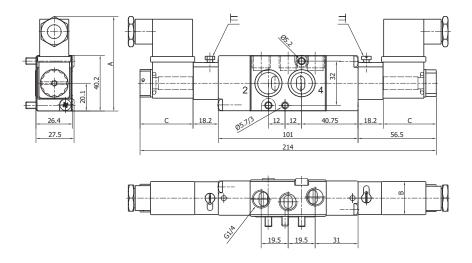
V46K2-36	- ► 14 2 - 14 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	90 000 503	1.8 - 10	200	
pneumatic operated, return pneumatic spring					

^{*} bold printed valves are preferred types



type V46 ..., solenoid or pneumatic operated

NAMUR-valve 5/3 way solenoid operated



Measures A, B, C please find on sheet of the coils type D.

Coils and connectors must be ordered separately

type	symbol	article-nr.	pressure (bar)	weight (approx. g)		
V46L2-11	14 W 12 12 1 12 5 1 3	90 000 494	2.5 - 8	290		
central position, NC						

V46M2-11	14 W 12 5 1 3	90 000 495	2.5 - 8	290		
central position exhausted						

V46N2-11	14 W 12 5 1 3	90 000 496	2.5 - 8	290		
central position pressurized						



type V46 ..., solenoid or pneumatic operated

Adapter plates and adapter plates for flow control

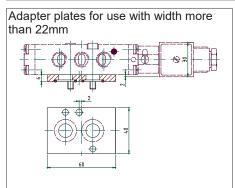


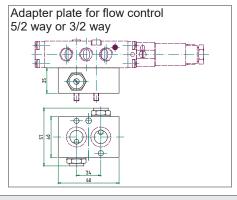
Adapter plates for use with more than 22mm wide coils

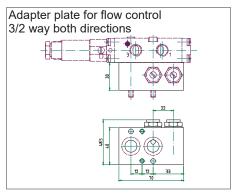
dimensions	article-nr.	supply item	weight (approx. g)
40x60x6	90 000 062	1 pc. adapter plate, 2 pcs. O-rings 16x2, 1 pc. set screw DIN 913-45H, M5x16, 2 pcs. screws M5x35	45

Adapter plates for flow control

dimensions	article-nr.	function	supply item	weight (approx. g)
40x60x25	90 000 066	3/2 way and 5/2 way flow control closing	1 pc. adapter plate with 1 pc. flow control valve, 1 pc. hollow screw, 2 pcs. O-rings 16x2, 1 pc. set screw DIN 913-45H M5x35, 2 pcs. fixing screws M5x55	210
40x60x25	90 000 065	3/2 way flow control opening	1 pc. adapter plate with 1 pc. flow control valve, 1 pc. hollow screw, 2 pcs. O-rings 16x2, 1 pc. set screw DIN 913-45H, M5x35, 2 pcs. fixing screw M5x55	210
40x75x30	90 000 268	3/2 way flow control both directions	1 pc. adapter plate with 2 pcs. flow control valve, 2 pcs. O-rings 16x2, 1 pc. set screw DIN 913-45H M5x10, 2 pcs. fixing screws M5x60	250
40x60x25	90 000 064	5/2 way flow control both directions	1 pc. adapter plate 2 pcs. flow control valve, 2 pcs. O-rings 16x2, 1 pc. set screw DIN 913-45H, M5x35, 2 pcs. fixing screws M5x55	210







Accessories

type	article-nr.	description	thread	weight (approx. g)	
	10 000 293	silencer	M5	2	
	10 000 471	silencer	G1/4 A	35	
	10 000 472	flow control silencer	G1/4 A	50	



type V46 ..., solenoid or pneumatic operated

Coils* (Type D) and Connectors*



type *	article-nr.	voltage	usalbe also for	А	В	С	weight (approx. g)
DA24-	90 000 051	24V = (DC)	48V/50, 48V/60	59	22	39	50
DA2450	90 000 052	24V/50 (AC)	24V/60; 12V = (DC)	59	22	39	50
DA11050	90 000 100	110V/50 (AC)	110V/60, 115V/60, 127V/50, 48V = (DC)	59	22	39	50
DA23050	90 000 053	230V/50 (AC)	230V/60, 220V/50, 220V/60 110V = (DC)	59	22	39	50

Connectors*

type *	article-nr.	voltage	protective system	LED	usalbe or coil	weight (approx. g)
22mm Standard	90 000 058	0 - 250V, AC, DC	none	no	DA	20
22mm 24V VDR, LED	90 000 059	24V AC und DC	VDR-resistor	yes	DA	20
22mm 230V VDR, LED	90 000 060	230V, AC	VDR-resistor	yes	DA	20
30mm Standard	90 000 061	0 - 250V, AC, DC	none	No	DZ	25

^{*} Coils and connectors must be ordered separately. Please indicate the voltage. More available coil-types on request. (EX-coils, special voltage etc.)

Logic elements

type OR, AND, NOT, YES, MEMORY



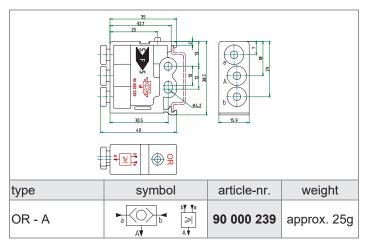
SPECIFICATION			
general			
construction	MEMORY spool valve, OR, AND, YES, NOT poppet valve with pressure indicator		
operation	pneumatic		
return	pneumatic, mechanical spring		
connections	push in for PA-, PE-, PU-tubes, 4 r	nm outside diameter	
ambient temperature	-10°C to 50°C		
fluid temperature	-10°C to 50°C		
humidity	0 - 100% rH		
materials	body:	POM	
	raccords (push in connectors):	brass	
	silencer:	sinterbronce	
	internal parts:	POM, aluminium anodised, brass	
	seals:	perbunan (NBR)	
	springs:	stainless steel	
mounting	pick up to $Ω$ -rail according to DIN $ξ$	50022 or 2 holes for M4 screws	
installation position	as required		
pneumatic			
function	OR, AND, YES, NOT, MEMORY		
fluid	filtered, lubricated or non lubricated	d air	
pressure range	OR, AND: 1.5 to 8 bar YES, NOT: 0 to 8 bar MEMORY: 0 to 8 bar NOT: pressure drop point 0.4 bar at 6 bar working pressure		
control pressure range	YES: 1 to 8 bar (minimal 3 bar at 8 bar working pressure) NOT: 1 to 8 bar MEMORY: 1.5 to 8 bar		
nominal flow	QNn: 100Nl/min (p₁=6bar, ∆p=1ba	r)	
nominal diameter	DN 2.7 mm		
frequency	≤10/sec		
special solutions	seals of FPM or NBR		

Logic elements

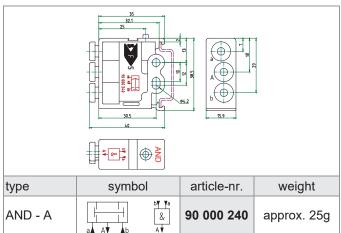


type OR, AND, NOT, YES, MEMORY

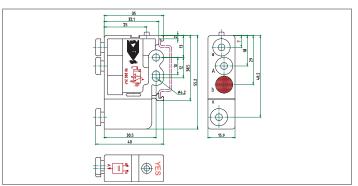
OR - element



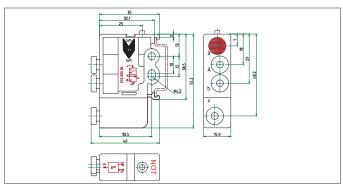
AND - element



YES- element



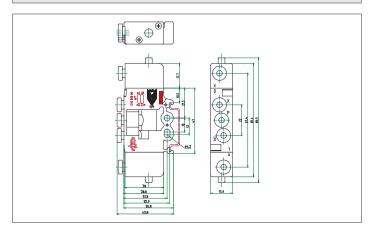
NOT	- (ele	m	ent
-----	-----	-----	---	-----



type	symbol	article-nr.	weight
YES - A	a X X	90 000 241	approx. 37g

type	symbol	article-nr.	weight	
NOT - A	& A V	90 000 242	approx. 37g	

MEMORY - element

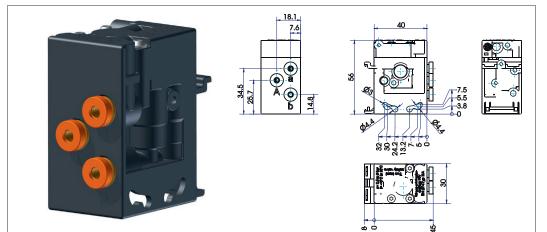


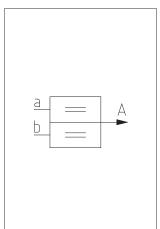
type	symbol	article-nr.	weight
MEMORY - A	X ↑ ↑ X X X X X X X X X X X X X X X X X	90 000 243	approx. 52g

Two-hand-safety valve, EN 574 type IIIA



type ZH-A





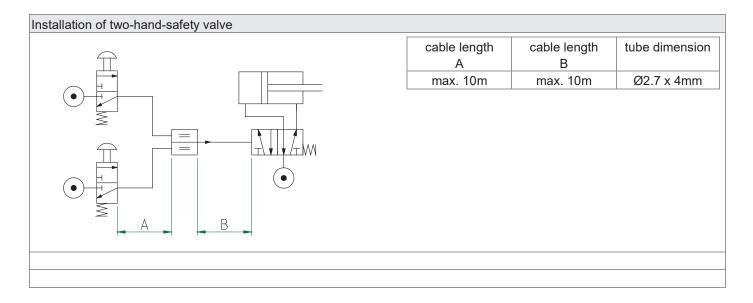
SPECIFICATION			
general			
construction	poppet valve		
operator	pneumatic		
return	mechanical spring		
connection	push-in connection for calibrated plastic tubes with 4 mm outside diameter		
ambient temperature	-10°C to +50°C		
fluid temperature	-10°C to +50°C		
humidity	0 – 100% r.H.		
material	body: POM		
	inner parts: brass, POM		
	seals: perbunan (NBR)		
	springs: stainless steel		
mounting	mounting on a Ω -rail according to EN 60715 or with M4 screws		
installation position	any position		
items supplied	valve incl. mounting and service instruction		
pneumatic			
fluid	dried, filtered (50 μm), non lubricated , compressed air		
operating pressure	2.5 – 8 bar		
nominal flow	QNn = 85 NI/min (p ₁ = 6bar, Δ p = 1 bar)		
nominal diameter	NW (DN) 2.7mm		
max. signal delay	0.4 seconds		
response time	see attached chart		
minimal nominal diameter of operating device	DN 2.5mm		
EC-type-examination- certificate TÜV	TÜV-A-MHF/MG/13-05260 A		

type	article-nr.	description	weight (approx. g)
ZH-A	90 000 682	two-hand-safety valve according EN ISO 13851 Typ IIIA	85

Two-hand-safety valve, EN 574 type IIIA



type ZH-A



Reaction time (p=6bar)		
cable length	cable length	average reaction time
A	В	
1m	1m	0.05s
1m	5m	0.20s
1m	10m	0.60s
5m	1m	0.10s
10m	1m	0.50s

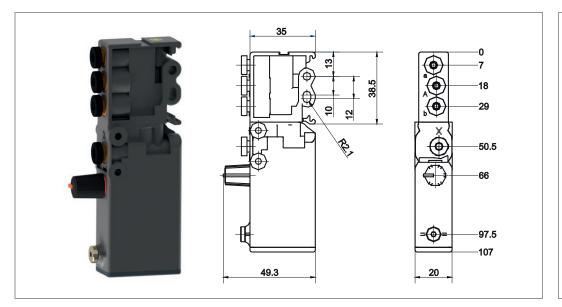
Response time (definition): The time interval between the release of at least one of the control elements and the end of the output signal.

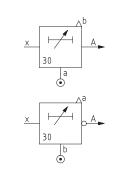
In the test procedure the end of the output signal was established by means of a pressure switch positioned at the end of the tube B. The operation of a control valve and associated cylinder (as shown in the schematic diagram) was not taken into account. The control valve in question had a 2.5mm orifice. The response time is dependent on the relevant configuration and must be determined accordingly in individual cases.

Time delay valve

type ZV-A, 3/2 NC or 3/2 NO







Using the inlet port a the timer valve has a positive outlet (A), using b it has a negative outlet (A). Each of the free connections a or b then serves as exhaust.

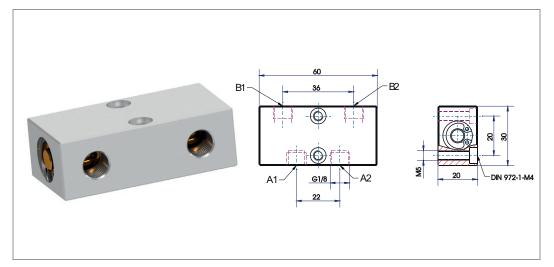
SPECIFICATION	
general	
construction	poppet valve
operator	pneumatic
return	mechanical spring
connection	push-in connection for calibrated tubes 4 mm diameter
ambient temperature	-10°C to +50°C
fluid temperature	-10°C to +50°C
humidity	0 – 100% r.H.
material	body: POM
	inner parts: brass, POM, Delrin, PMMA
	seals: perbunan (NBR)
	springs: stainless steel
mounting	snap on to Ω -rail according to DIN 50022 or 2 holes for M4 screws
installation position	any position
pneumatic	
function	usable with 3/2 NC or 3/2 NO-outlet,
	according to use of inlet pressure a or b
fluid	filtered (20 µm), lubricated or non lubricated compressed air
operating pressure	2,5 to 8 bar
nominal flow	QNn = 100 NI/min (p ₁ = 6 bar, Δp = 1 bar)
nominal diameter	DN 2.7 mm
repeat interval	< 0.5 seconds
repeating accuracy	± 2%

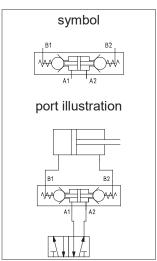
type	article-nr.	description	time range (seconds)	colour button	weight (approx. g)
ZV-A30	90 000 461	time delay valve	0 - 30	orange	75
ZV-A10	90 000 747	time delay valve	0 - 10	orange	75

pressure-safety-valve

type DSV, port 1/8"







The pressure-safety-valve is used to fix the position of a double-effect-cylinder, if the pressure will be lost. The valve consists of two pneumatically operated non-return-valves. The valve is mounted between the control-valve (port A1, A2) and the cylinder(port B1, B2), as shown on the port illustration. If the pressure is lost, both outlet ports for the cylinder will be closed.

SPECIFICATION		
general		
type	seat valve	
operator	pneumatic	
reset	spring	
ports	G1/8"	
ambient temperature	-20°C to +60°C	
fluid temperature	-20°C to +60°C	
material	body anodized aluminium, internal parts brass and POM, seal NBR, ball ceramics	
mounting	mounting holes or M5 inner thread	
installation	in any position	
pneumatic		
fluid	filtered, lubricated or non-lubricated air	
operating pressure	1 - 10 bar	
nominal flow	$A \rightarrow B$ (fill) 230 NI/min, $B \rightarrow A$ (exhaust) 360 NI/min (p ₁ =6bar, Δp =1bar)	
nominal diameter	DN 4 mm	
special functions	The pressure between the pressure-safety-valve and the cylinder is 0.25bar lower than the air supply pressure.	

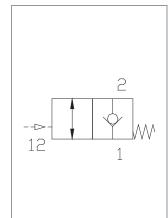
type	article-nr.	weight (approx. g)
DSV1	90 000 107	100
DSV1 with manual exhaust	90 000 969	100

Non return valve pneumatic controlled



type HRP..., size 1/8" to 1/2"



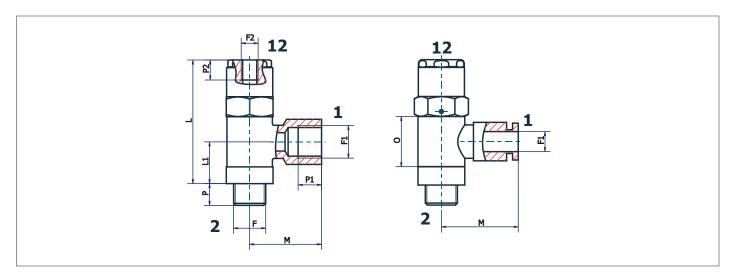


SPECIFICATION	
general	
type	non return valve with elastic seat
operator	by compressed air
return	spring return
ports	port 2 male thread BSP, port 1 female thread BSP or push in raccord, port 12 female thread M5 or 1/8" BSP
ambient temperature	-10°C to +60°C
fluid temperature	-10°C to +60°C
material	metal parts: brass nickel plated and stainless steel
	springs: stainless steel
	seals: perbunan (NBR), FPM on request
	washer: nylon
installation	in any position, ring piece turn able 360° before the valve is tightened
pneumatic	
fluid	neutral gazes, filtered, lubricated or non lubricated compressed air, other fluids on request
operating pressure	0.3 - 10 bar
control Pressure	see diagram

Non return valve pneumatic controlled



type HRP..., size 1/8" to 1/2"

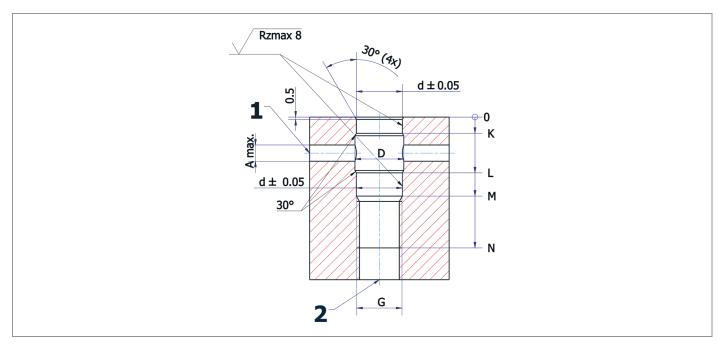


type	article-nr.	F	F1	F2	L	L1	М	O*	Р	P1	P2	SW	weight (approx. g)	
HRP1X	90 000 038	G1/8 A	-			-	-			-			30	
HRP11	90 000 039	G1/8 A	G1/8	N 4 5	27.5		21	45	6.5	7		4.4	48	
HRP1A	90 000 613	G1/8 A	4	M5	37.5	12.5	21	15	6.5	_	6	14	48	
HRP1C	90 000 146	G1/8 A	6				25			-			48	
HRP2X	90 000 023	G1/4 A	-			-	-			-			50	
HRP22	90 000 040	G1/4 A	G1/4		40.5		25	4.7	7	8		17	75	
HRP2C	90 000 147	G1/4 A	6		42.5	13.5	27.5			_		17	75	
HRP2D	90 000 148	G1/4 A	8				32			-			82	
HRP3X	90 000 133	G3/8 A	-			-	-						90	
HRP33	90 000 110	G3/8 A	G3/8		40		31	20	9	_	10		40	120
HRP3D	90 000 149	G3/8 A	8	G1/8	46	15	31.5	20		_	7	19	110	
HRP3E	90 000 150	G3/8 A	10				36			-			120	
HRP4X	90 000 132	G1/2 A	-			-	-			-			155	
HRP44	90 000 151	G1/2 A	G1/2		51.5	47	40	24	10	14		24	210	
HRP4F	90 000 152	G1/2 A	12			17	40.5		-				210	
HRP5X	90 000 978	G3/4 A	G3/4		F-7	-	-	07	40	-		200	95	
HRP55	90 000 950	G3/4 A	G3/4		57	18.5	39	27	12	14		36	140	

Non return valve pneumatic controlled

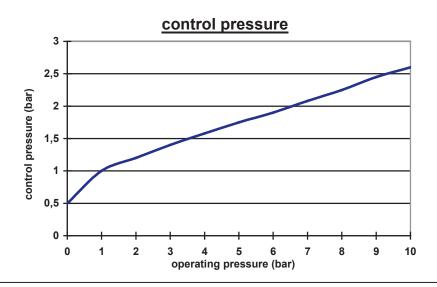


type HRP..., size 1/8" to 1/2"



screw-in	geometry for	HRP.X (with	out ring pie	ece)					
for typ:	article-nr.	G	d	D	Α	K	L	M	N
HRP1X	90 000 038	G1/8	9.9	10.5	7	3.5	12	17	28
HRP2X	90 000 023	G1/4	13.3	14	8	3.5	12	19	30
HRP3X	90 000 133	G3/8	16.8	17.5	11	4	15	20	35
HRP4X	90 000 132	G1/2	21	22	13	4.2	20	25	40
HRP5X	90 000 878	G3/4	26.6	28.5	17.8	4.2	22	32	45

size	DN [mm]	QN 1→2 [NI/min]	QN 2→1 [NI/min]	max. torque moment [Nm]	min. pressure in flow direction [bar]
1/8"	3.0	220	280	1.2	0.2
1/4"	4.4	340	460	1.8	0.2
3/8"	5.7	700	910	3.5	0.2
1/2"	8.8	1450	1660	4.0	0.15

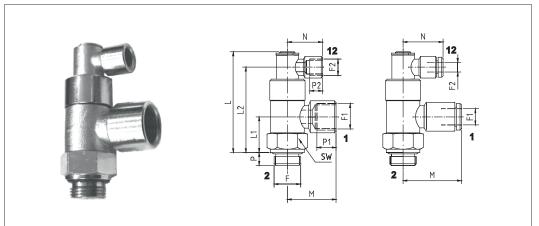


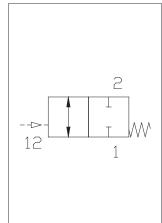


Stop-valve



pneumatic controlled type HVP..., size G1/8" to G1/2"





SPECIFICATION	
general	
construction	2/2-spool valve, normally closed (NC)
operator	pneumatic
return	spring return
connections	port 2: male thread BSP, port 1: female thread BSP or push in raccord
	port 12: female thread 1/8" BSP or push in raccord 4mm diameter
ambient temperature	-10°C to +70°C
fluid temperature	-10°C to +70°C
material	metal parts: brass nickel plated and stainless stell
	springs: stainless steel
	seals: perbunan (NBR), FPM on request
installation position	in any position, ring pieces revolvable also if the valve is tightened
pneumatic	
fluid	neutral gazes, filtered, lubricated or non lubricated compressed air, other fluids on request
operating pressure	0 – 10bar
control pressure	see diagram
special version	with T-ring piece or as manual operated version on request

type	article-nr.	F	F1	F2	L	L1	L2	M	N	Р	P1	P2	SW	weight (approx. g)																										
HVP111	90 000 115	G1/8 A	G1/8	G1/8				21	21		7	7		68																										
HVP11A	90 000 160	G1/8 A	G1/8	4	51.5	51.5 16	16	5 16	16	16	51.5 16	42	21	21.3	6	7	-	14	68																					
HVP1CA	90 000 139	G1/8 A	6	4				25	25		-	-		70																										
HVP221	90 000 116	G1/4 A	G1/4	G1/8				25	21		8	7		104																										
HVP22A	90 000 161	G1/4 A	G1/4	4		40.5	40	25	21.3		8	-	4-	104																										
HVP2CA	90 000 140	G1/4 A	6	4	57.5	57.5 19.	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5 19.5	57.5	7.5 19.5	19.5	19.5	57.5 19.5	57.5 19.5	57.5 19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	48	27.5	25	8	-	-	17	104
HVP2DA	90 000 141	G1/4 A	8	4										32	21.3		-	-		110																				
HVP331	90 000 117	G3/8 A	G3/8	G1/8				31	21		10	7		150																										
HVP33A	90 000 162	G3/8 A	G3/8	4	63 22.5	63	63	63	63 22.5	63 22.5	63 22.5	63 22.5		63 22.5				31	21.3		10	-		150																
HVP33C	90 000 352	G3/8 A	G3/8	6									63		53.5	31	23	8	10	-	22	150																		
HVP3DA	90 000142	G3/8 A	8	4				31.5	25		-	-		145																										
HVP3EA	90 000 143	G3/8 A	10	4				36	21.3		-	-		155																										
HVP441	90 000 144	G1/2 A	G1/2	G1/8	74.5	07	C4 E	40	21	40	14	7	07	239																										
HVP4FA	90 000 145	G1/2 A	12	4	71.5 27	27 61.5	40.5	25	12	-	-	27	240																											
HVP551	90 000 878	G3/4 A	G3/4	G1/8	81.6	32.7	72	39	21.6	12	14	7	32	160																										

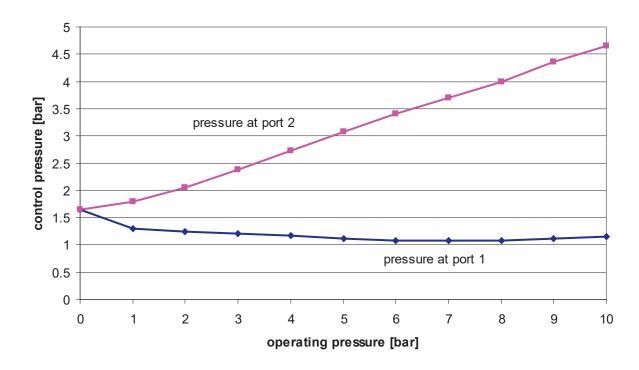
Stop-valve



pneumatic controlled type HVP..., size G1/8" to G1/2"

size	DN	QN	max. torque-moment
	[mm]	[NI/min]	[Nm]
1/8"	4.0	300	3.0
1/4"	5.6	700	7.0
3/8"	7.7	1200	9.0
1/2"	10.0	2100	15.0

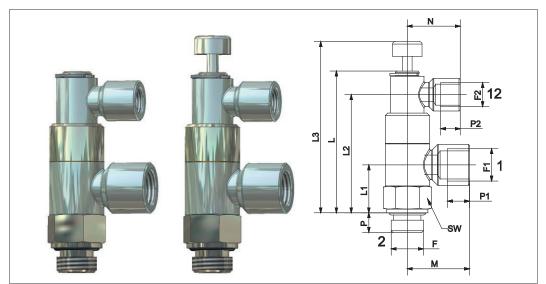
Control pressure

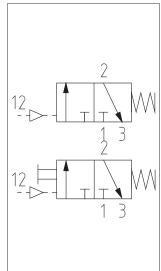


3/2-way non return valve pneumatic controlled



type HEP..., size 1/8" and 1/4" type HEP...M, size 1/8" and 1/4", with manual override





SPECIFICATION	
general	
type	3/2-spool valve, normal closed (NC)
operator	pneumatic or manual
return	spring return
ports	port 2: male thread BSP, port 1: female thread BSP or push in raccord port 12: female thread M5 or 1/8" BSP
ambient temperature	-10°C to +70°C
fluid temperature	-10°C to +70°C
material	metal parts: brass nickel plated and stainless steel
	springs: stainless steel
	seals: perbunan (NBR)
installation	in any position, ring pieces revolvable also if the valve is tightened
pneumatic	
fluid	neutral gazes, filtered, lubricated or non lubricated compressed air, other fluids on request
operating pressure	0 - 10 bar
control pressure	see diagram

type	article-nr.	F	F1	F2	L	L1	L2	L3	М	N	Р	P1	P2	SW	weight
															(approx. g)
HEP111	90 000 438	G1/8 A	G1/8	G1/8	E4 E	4.0	40		21.5	21.5	_	7	7	44	66
HEP1CA	90 000 439	G1/8 A	6	4	51.5	16	42		25	25	6	-	-	14	68
HEP221	90 000 440	G1/4 A	G1/4	G1/8					25.5	21.5		8	7		102
HEP2CA	90 000 441	G1/4 A	6	4	57.5	19.5	48		27.5	25	8	-	-	17	102
HEP2DA	90 000 442	G1/4 A	8	4					32	25		-	-		108
HEP111M	90 000 443	G1/8 A	G1/8	G1/8		10	42	C4 F	21.5	21.5		7	7	4.4	70
HEP1CAM	90 000 444	G1/8 A	6	4		16		64.5	25	25	6	-	-	14	72
HEP221M	90 000 445	G1/4 A	G1/4	G1/8					25.5	21.5		8	7		106
HEP2CAM	90 000 446	G1/4 A	6	4		19.5	48	71.0	27.5	25	8	-	-	17	106
HEP2DAM	90 000 447	G1/4 A	8	4					32	25		-	-		112

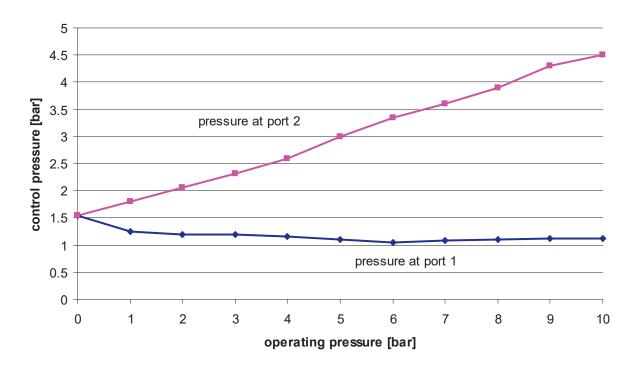
3/2-way non return valve pneumatic controlled



type HEP..., size 1/8" and 1/4" type HEP...M, size 1/8" and 1/4", with manual override

size	DN (mm)	QNn 1→2 (Nl/min)	QNn 2→3 (Nl/min)	max. torque moment (Nm)
1/8"	4.0	300	75	3.0
1/4"	5.6	700	100	7.0

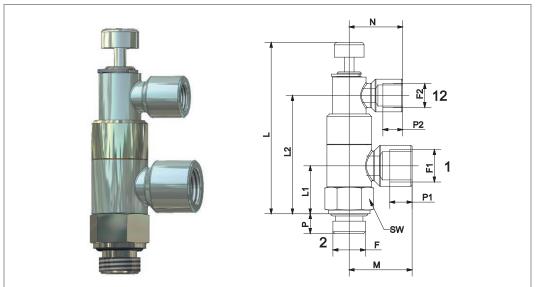
Control pressure

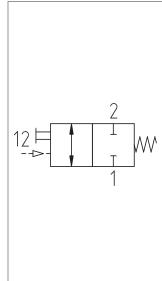


Stop-valve



pneumatic controlled, with manual override type HVP...M, size 1/8" and 1/4"





SPECIFICATION	
general	
construction	2/2-spool valve, normal closed (NC)
operator	pneumatic or manual
return	spring return
connections	port 2: male thread BSP, port 1: female thread BSP or push in raccord, port 12: female thread M5 or 1/8" BSP
ambient temperature	-10°C to +70°C
fluid temperature	-10°C to +70°C
material	metal parts: brass nickel plated and stainless steel
	springs: stainless steel
	seals: perbunan (NBR)
installation position	in any position, ring piece revolvable also if the valve is tightened
pneumatic	
fluid	neutral gazes, filtered, lubricated or non lubricated compressed air, other fluids on request
operating pressure	0-10 bar
control pressure	see diagram

type	article-nr.	F	F1	F2	L	L1	L2	М	N	Р	P1	P2	SW	weight
														(approx. g)
HVP111M	90 000 433	G1/8 A	G1/8	G1/8				21.5	21.5		7	7		72
HVP1CA M	90 000 434	G1/8 A	6	4	64.5	16	42	25	25	6	-	-	14	74
HVP221M	90 000 435	G1/4 A	G1/4	G1/8	71.0			25.5	21.5		8	7		108
HVP2CA M	90 000 436	G1/4 A	6	4		19.5	48	27.5	25	8	-	-	17	108
HVP2DA M	90 000 437	G1/4 A	8	4				32	25		-	-		114

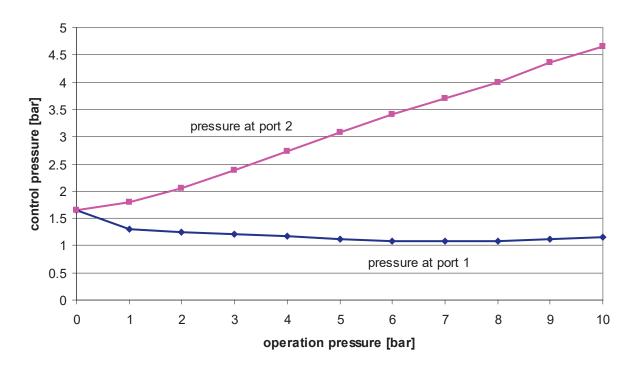
Stop-valve



pneumatic controlled, with manual override type HVP...M, size 1/8" and 1/4"

size	DN [mm]	QNn [NI/min]	max. torque moment [Nm]
1/8"	4.0	300	3.0
1/4"	5.6	700	7.0

Control pressure



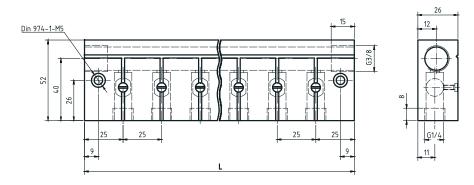
Distributor block with integral ball valves



type KPV



SPECIFICATION		
description	distributor block w	ith integral ball valves
type	KPV 5226E	
pressure range	vacuum to 10 bar	
operation	screwdriver (width	4 to 6 mm)
rotation angle	90°	
temperature range	-10° C to +100° C	
orifice (per channel)	DN 8 mm	
material	body:	anodised aluminium alloy
	ball and spindle:	chromed brass
	ball seals:	PTFE
	O-Ring:	perbunan (NBR)
mounting	via 2 holes in body	y, for M5 screws
other versions	on application:	specified number of outlets,
		control knob operation



This handy unit serves as a compact distributor and isolator block in complex machines and installations, where it is necessary to open or close individual circuits.

The slot in the spindles indicates the open or closed status of the individual channels.

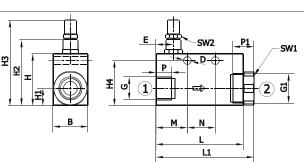
type	article-nr.	number of	length	weight
		outlets	(mm)	(approx. g)
KPV 5226 - 6E	90 000 010	6	175	650
KPV 5226 - 8E	90 000 427	8	225	730
KPV 5226 - 10E	90 000 459	10	275	890

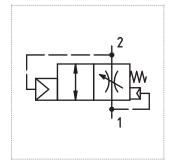
2/2- way soft start valve

SIFS

Typ WSV..., size G1/4 to G1/2





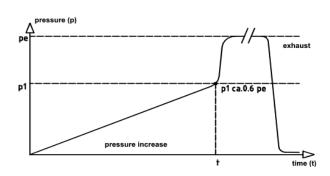


Specificati	on												
generell													
type of con	struction		coaxial system										
operator			by com	oressed	air, load	l valve a	djustab	le and I	ockable)			
return			mechar	ical spri	ng								
ambient te	mperature		-10°C b	is +70°0									
fluid tempe	rature		-10°C b	is +70°0									
material			body ar	d intern	al parts:		alur	ninium a	anodize	d, POM			
			spring:				stair	nless st	eel				
			load val	ve and I	nexagon	al fitting	: bras	ss					
			seals:						NBR) ar	nd polyuret	hane (A	(U)	
mounting			2 holes	for scre	ws M4 o	r pipe in	stallatio	on					
installation			in any position										
pneumatic	data												
function			2/2-NC										
fluid			filtered,	lubricat	ed or no	n lubrica	ited cor	npresse	ed air, o	ther fluids of	on requ	est	
operating p	ressure		0,5 - 10	bar									
nominal flo	W		G 1/4":	1380 NI	/min (kv	/ – Wert:	1,26 m	13/h), G	1/2": 3	500 NI/min	(kv – W	/ert: 3,2	4 m3/h)
nominal flo	w load valve		G 1/4":	0 – 100	NI/min,	G 1/2": ()-200 N	l/min					
nominal dia	ameter		G 1/4":	DN 7.5	mm, G 1	/2": DN	12 mm						
free flow appr. 60% of input pressure pe = 6 bar (p1 = 0.6 pe)													
max. freqency 5/Sec.													
type	code	G	G1	G1 B D E H H1 H2 H3 H4 L L1						L1			
WSV2	90000178	G1/4	G1/4	20	4.5	10	30	10	38	49 - 52	26	50	56
WSV4	90000179	G1/2	G1/2	30	4.5	13	40	15	48	59 - 62	36	65	75.8

type	М	N	SW1	SW2	Р	P1	QNn (NI/min)	Weight (ca. g)
WSV2	18	16	19	8	9	9	1380	90
WSV4	26.5	16	27	8	11	11	3500	220

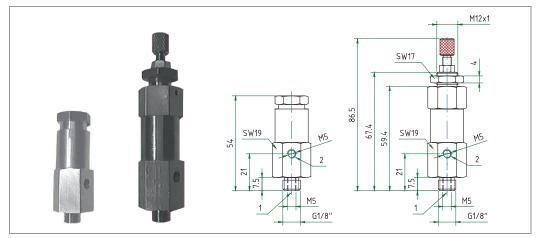
Soft start valves type WSV are used to provide a controlled pressure build-up in pneumatic systems. They are equally suitable for use with a group of valves or between a single valve and cylinder. The main pressure pe at inlet port 1 passes to the outlet port 2 via a load valve (adjustable). Adjusting the load valve allows the pressure build-up time to be set as required. The valve switches over if 60% of the inlet pressure is reached.

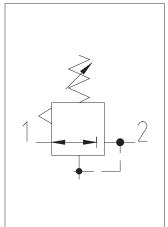
In the absence of main pressure pe at the inlet port of the soft start valve, the valve exhausts from port 2 back through port 1.



SFS

type MDR0 and MDRS0, size M5



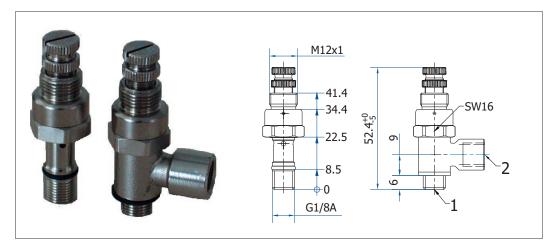


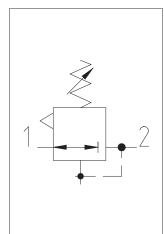
SPECIFACTION						
general						
construction	piston type with secondary exhaust					
connection	inlet M5 and G1/8", outlet M5, gauge port M5					
ambient temperature	-20°C to +60°C					
fluid temperature	-20°C to +80°C					
material	metal parts: brass (Ms58)					
	seals: perbunan (NBR)					
	springs: stainless steel and steel zinc plated					
mounting	type MDRS0 also panel mounting					
installation position	in any position					
supply item	type MDRS0 incl. nut for panel mounting					
fluid	neutral gazes, filtered, lubricated or non lubricated compressed air					
inlet pressure	max. 12 bar					
outlet pressure	adjustable from 1 to 8 bar					
nominal flow	100 NI/min (inlet pressure 10 bar, outlet pressure 6 bar and a pressure drop of 1 bar	100 NI/min (inlet pressure 10 bar, outlet pressure 6 bar and a pressure drop of 1 bar)				
nominal diameter	DN 2.2 mm					
special solution	seals in FPM					
(on request)	solution without secondary exhaust					

type	article-nr.	outlet pressure (bar)	seal material	weight (approx. g)
MDR0	90 000 041	1 bis 8	NBR	80
MDR0V	90 000 042	1 bis 8	FPM	80
MDRS0	90 000 043	1 bis 8	NBR	110
MDRS0V	90 000 044	1 bis 8	FPM	110

SFS

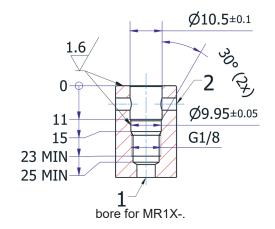
type MR1.-.





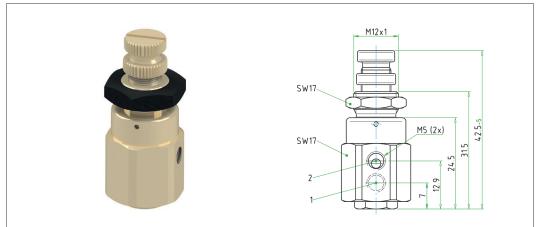
SPECIFICATION	
general	
construction	piston type with secondary exhaust
connection	port 1 (pressure inlet) G1/8" A according to ISO 228 port 2 (outlet) G1/8" according to ISO 228 respective push in raccord for plastic tubes
ambient temperature	-20°C to +60°C
fluid temperature	-20°C to +80°C
material	metal parts: brass nickel plated
	seals: Perbunan (NBR)
	springs: stainless steel washer: polyamide
mounting	
installation position	any position, ring piece turntable 360° before the valve is tightened
items supplied	
fluid	neutral gazes, filtered, lubricated or non lubricated compressed air, filter 50 micron
inlet pressure	type MR12 max. 6 bar, type MR18 max. 10 bar
outlet pressure	Type MR12 0.5 – 2 bar, Type MR18 1 – 8 bar
nominal flow	inlet pressure 8 bar, outlet pressure 6 bar and a pressure drop of 1 bar: 75 NI/min
nominal diameter	DN 2.5 mm
special version (on request)	without secondary exhaust, for liquids

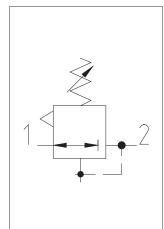
Туре	article-nr.	outlet pressure (bar)	outlet (2)	weight (appr.) g
MR1X-2	90 000 530	0.5 - 2	hollow screw	28
MR1X-8	90 000 531	1 – 8	hollow screw	28
MR11-2	90 000 532	0.5 – 2	ring piece G1/8	45
MR11-8	90 000 533	1 – 8	ring piece G1/8	45
MR1A-2	90 000 534	0.5 – 2	ring piece Ø4	45
MR1A-8	90 000 535	1 – 8	ring piece Ø4	45
MR1C-2	90 000 536	0.5 – 2	ring piece Ø6	46
MR1C-8	90 000 537	1 – 8	ring piece Ø6	46





type MR0-. , size M5, with secondary exhaust



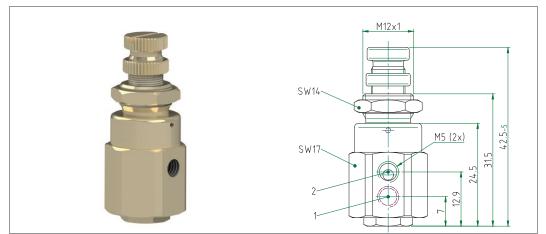


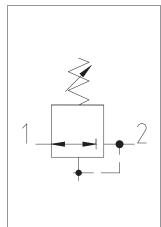
SPECIFICATION					
general					
construction	piston type with secondary exhaust				
connection	thread M5				
ambient temperature	-20°C to +60°C				
fluid temperature	-20°C to +80°C				
material	metal parts: brass (Ms58), nickel-plated				
	seals: perbunan (NBR)				
	springs: stainless steel				
	nut: plastic				
mounting	panel mounting nut				
installation position	any position				
items supplied	reducer and panel mounting nut				
fluid	filtered (50 µm) neutral gases, lubricated or non lubricated compressed air				
inlet pressure	max. 10 bar with MR0-8, max. 6 bar with MR0-2				
outlet pressure	MR0-2: 0.2 – 2 bar, MR0-8: 1 – 8 bar				
nominal flow	inlet pressure 8 bar, outlet pressure 6 bar and a pressure drop of 1 bar: 75 NI/min				
nominal diameter	DN 2.5 mm				

type	article-nr.	outlet pressure	seal material	weight
		(bar)		(approx. g)
MR0-2	90 000 335	0.2 - 2	NBR	45
MR0-8	90 000 336	1 – 8	NBR	45



type MRW0. , size M5, without secondary exhaust

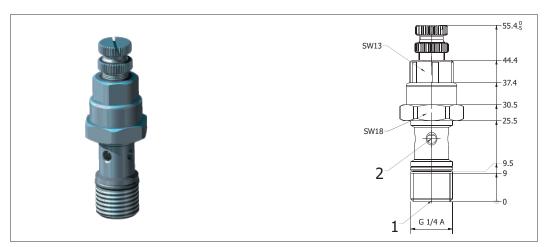


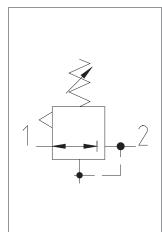


SPECIFICATION			
general			
construction	piston type without secondary exhaust		
connection	thread M5		
ambient temperature	-20°C to +60°C		
fluid temperature	-20°C to +80°C		
material	metal parts: brass (Ms58) nickel-plated		
	seals: perbunan (NBR)		
	springs: stainless steel		
	nut: brass (Ms58) nickel-plated		
mounting	panel mounting nut		
installation position	any position		
items supplied	reducer and panel mounting nut		
fluid	filtered (100 µm), neutral gases and liquids		
inlet pressure	max. 10 bar at MRW0-8, max. 6 bar at MRW0-2		
outlet pressure	MRW0-2: 0.2 – 2 bar, MRW0-8: 1 – 8 bar		
flow rate	k _{vs} -value: 0.093 m³/h (1,55 l/min) water		
nominal diameter	DN 2.5 mm		

type	article-nr.	outlet pressure (bar)	seal material	weight
MRW0-2	90 000 366	0.2 – 2	NBR	(approx. g) 46
MRW0-8	90 000 367	1 – 8	NBR	46

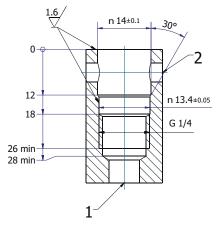
type MR2x-8





SPECIFICATION			
general			
construction	piston type with secondary exhaust		
connection	port 1 (pressure inlet) G1/4A according to ISO 228 port 2 (outlet) ring piece or location hole		
ambient temperature	-20°C to +60°C		
fluid temperature	-20°C to +60°C		
material	metal parts: brass nickel plated		
	seals: NBR		
	springs: stainless steel		
mounting	line installation		
installation position	any position, ring piece turntable 360° before the valve is tightened		
items supplied			
fluid	neutral gazes, filtered, lubricated or non-lubricated compressed air, filter 50 micron		
inlet pressure	type MR2X8 max. 10 bar		
outlet pressure	type MR2X8 1 – 8 bar		
nominal flow	inlet pressure 8 bar, outlet pressure 6 bar and a pressure drop of 1 bar: 92 NI/min		
nominal diameter	DN 2.5 mm		

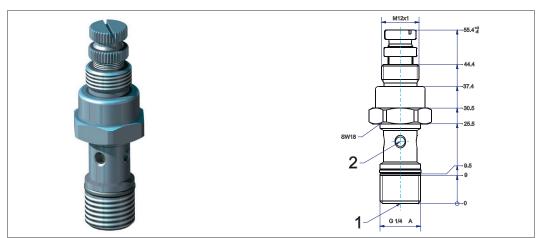
type	articel-nr.	outlet pressure	outlet	weight
		(bar)	(2)	(appr.) g
MR2X-8	90 000 646	1 – 8	hollow screw	44

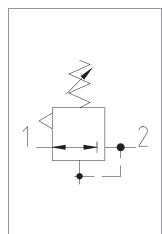


bore for MR2X-8

SFS

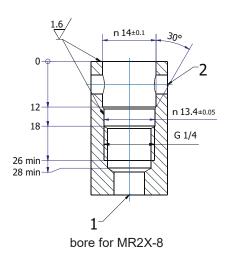
type MR2x-8 (panel mounting)





SPECIFICATION			
general			
construction	piston type with secondary exhaust		
connection	port 1 (pressure inlet) G1/4A according to ISO 228 port 2 (outlet) ring piece or location hole		
ambient temperature	-20°C to +60°C		
fluid temperature	-20°C to +60°C		
material	metal parts: brass nickel plated		
	seals: NBR		
	springs: stainless steel		
mounting	line installation		
installation position	any position, ring piece turntable 360° before the valve is tightened		
items supplied			
fluid	neutral gazes, filtered, lubricated or non-lubricated compressed air, filter 50 micron		
inlet pressure	type MR2X8 max. 10 bar		
outlet pressure	type MR2X8 1 – 8 bar		
nominal flow	inlet pressure 8 bar, outlet pressure 6 bar and a pressure drop of 1 bar: 92 NI/min		
nominal diameter	DN 2.5 mm		

type	articel-nr.	outlet pressure	outlet	weight
		(bar)	(2)	(appr.) g
MR2X-8	90 000 677	1 – 8	hollow screw	44



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From the heart of Tyrol out into the whole world

We are passionate about serving our international customers and partners with innovation special solutions.





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