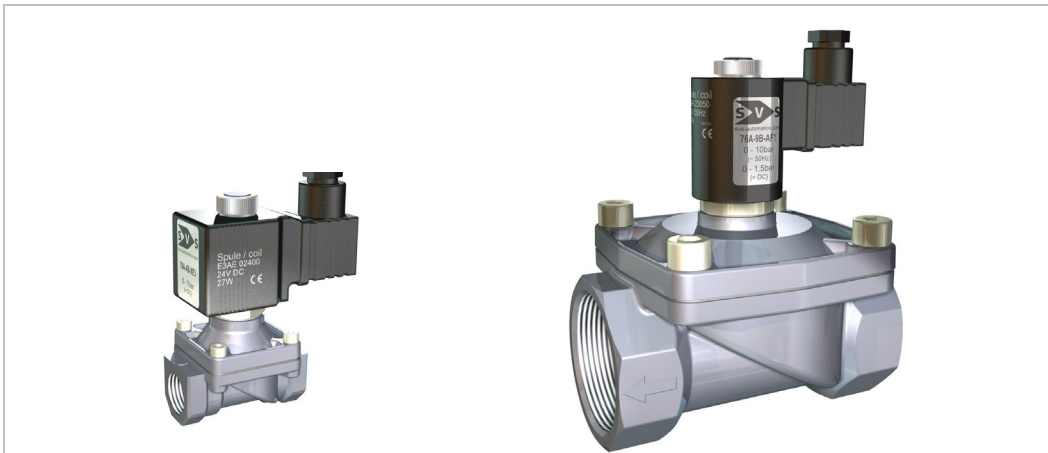
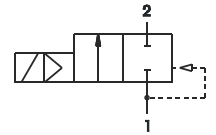


**2/2 way solenoid valve normally closed or normally open**

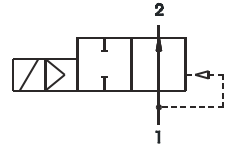
**type 76, stainless steel body AISI 304**  
**force pilot operated, DN 16-50mm, G 1/2 – G 2**



function A  
(normally closed)



function B  
(normally open)



SPECIFICATION	
<b>general</b>	
type of construction	2/2-poppet valve, with diaphragm, normally closed NC or normally open, coil 360° rotatable
operator	solenoid
ports	G 1/2 – G 2
ambient temperature	-5 °C to +50 °C, higher allowed ambient temperatures on request
fluid temperature	dependent on sealing material and coil
viscosity	max. 21mm <sup>2</sup> /s (cst) or 3°E
material	Bod and inner parts stainless steel AISI 304 or AISI 303, sealing see type selection
mounting	installation into fixed piping system
installation	only with vertical fixed solenoid coil
unit of supply	without connector
<b>electrical data</b>	
voltage	DC voltage or AC voltage
standard voltage	24V DC, 24V AC, 230V AC
special voltage on request	6V-200V DC, 12V-240V, 50Hz or 60Hz
acceptable voltage tolerance	+/- 10%
power consumption	see specifications at solenoid coils
coil type	temperature class F (155°C), winding class H (180°C), coil E3 temperature class H
duty cycle	100% ED (DB), continuous operation
protection class	IP65 according DIN EN 60529 (DIN 40050) with correctly mounted connector
<b>pneumatic – hydraulic</b>	
flow medium	all liquids and gases, which don't attack the used material
max. body housing pressure	PN 16 (bar)
response time	depending on operating pressure and fluid
special equipment on request	coil type with cable, coils for temperature class H (180°C), manual override

E & OE: We reserve the right to change design, dimensions or materials without notice.

type 76A, normally closed							
type * (order-nr.)	NW DN (mm)	ports	maximum differential pressure in bar **				
			coil <b>E1AA</b> ~ (50Hz)	coil <b>E3AE</b> ~ (50Hz)      = (DC)		coil <b>F1AA</b> = (DC)	kv-value (m³/h)
76A-4-.....	16	G1/2	0 – 10	0 – 14	0 – 7	0 – 14	3,8
76A-5-.....	20	G3/4					4,7
76A-6-.....	25	G1					5,5

type * (order-nr.)	NW DN (mm)	ports	maximum differential pressure in bar **			
			coil <b>F1AA</b> ~ (50Hz)      = (DC)		coil <b>G1AA</b> = (DC)	kv-value (m³/h)
76A-7-.....	32	G1 1/4	0 – 12	0 – 3	0 – 9	13
76A-8-.....	40	G1 1/2	0 – 10	0 – 2,5	0 – 7	16,8
76A-9-.....	50	G2		0 – 1,5	0 – 5	30,2

\* Type designation (order-nr.) must be completed with sealing material, short circuit ring, coil and supply voltage (see order code).

\*\* At DC voltage all pressure specifications apply to a fluid temperature up to 80 °C. At higher fluid temperatures, the maximum differential pressure will be reduced by 0,4% / °C.

sealing material	Code	fluid temperature	applicable for	standard voltage	Code
NBR (Perbunan)	<b>B</b>	max. 80°C	neutral gases and liquids	24V = DC	<b>02400</b>
EPDM	<b>E</b>	max. 130°C	hot water, steam, not for oil and grease	24V ~ (50Hz)	<b>02450</b>
FPM	<b>V</b>	max. 130°C	oil, petrol, oxygen	230V ~ (50Hz)	<b>23050</b>

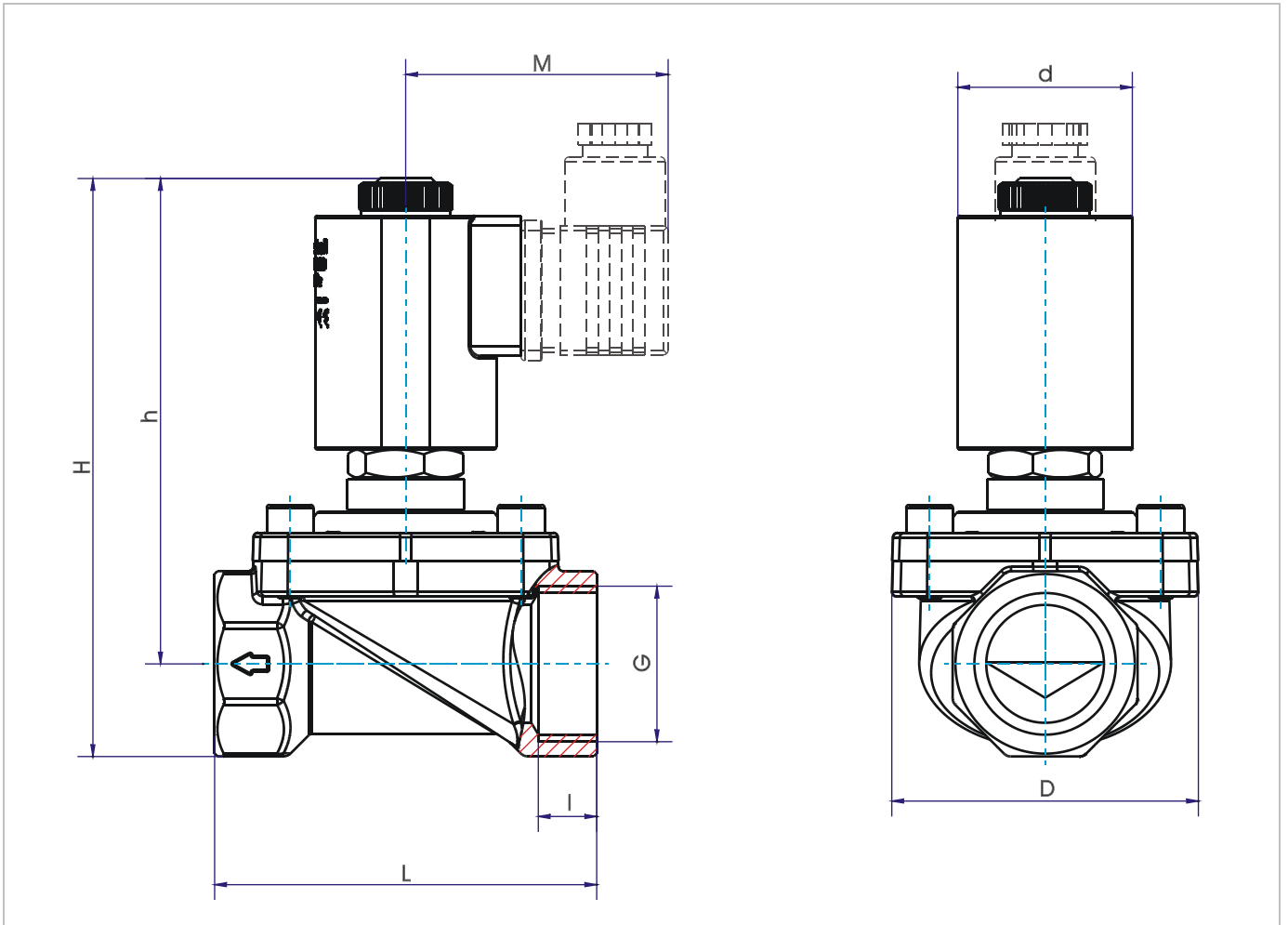
coil power consumption at 20 °C, protection class, interface					
coil type	inrush power ~ (50Hz) VA	rated power ~ (50Hz) VA	power = (DC) (W)	protection class with/without connector	interface
E1AA	32	14	12	IP65 / IP00	EN 175301-803, type A (DIN 43650-A)
E3AE	70	32	27		
F1AA	70	35	27		
G1AA	80	40	32		

ORDER CODE	76 A - 6 B - A E3AE 02400						
	type	function	ports	seal material	supply voltage	coil type	short circuit ring
type	type 76, force pilot operated, body stainless steel (AISI 304)						
function	A = normally closed, B = normally open						
ports	4 = G 1/2, 5 = G 3/4, 6 = G 1, 7 = G1 1/4, 8 = G1 1/2, 9 = G2						
seal material	B = NBR (Perbunan), E = EPDM, V = FPM						
short circuit ring	A = copper short circuit ring, X = without short circuit ring, B = silver short circuit ring, C = copper gold plated, D = copper chemical nickel-plated						
coil type	see specifications of the particular coil						
supply voltage	always 5-digit, see code of standard voltage						

type 76B, normally open							
type * (order-nr. )	NW DN (mm)	ports	maximum differential pressure in bar **				
			coil <b>E3AE</b> ~ (50Hz)      = (DC)		coil <b>F1AA</b> ~ (50Hz)      = (DC)		kv-value (m³/h)
76B-4-.....	16	G 1/2	0 – 14	0 – 14			3,8
76B-5-.....	20	G 3/4					4,7
76B-6-.....	25	G 1			0 – 14	0 – 14	5,5

type * (order-nr. )	NW DN (MM)	ports	maximum differential pressure in bar **				
			coil <b>F1AA</b> ~ (50Hz)      = (DC)				kv-value (m³/h)
76B-7-.....	32	G 1 1/4	0 – 10	0 – 10			13
76B-8-.....	40	G 1 1/2					16,8
76B-9-.....	50	G 2					30,2

\* Type designation (order-nr.) must be completed with sealing material, short circuit ring, coil and supply voltage (see order code).



**Dimension table for type 76 in mm, weight approx. kg**

G	coil	type 76A-		type 76B-		M	d	L	I	D	weight approx. kg	
		H	h	H	h						76A-	76B-
G 1/2	E1	101	87.5	118	105	52.5	30	60	12	45	0,45	0,54
	E3					54	36				0,52	0,61
	F1	111	98	130	117	55	39				0,60	0,72
G 3/4	E1	106	90	123.5	107.5	52.5	30	67	11	50	0,55	0,64
	E3					54	36				0,62	0,71
	F1	117	100.5	136	119.5	55	39				0,70	0,82
G1	E1	115	95	132	112	52.5	30	84	11	65	0,80	0,89
	E3					54	36				0,87	0,96
	F1	125	105	144	124.5	55	39				0,95	1,07
G1 1/4	F1	137	111.5	155.5	131	61	46	105	18	82	1,37	1,49
	G1	149	124	169.5	144.5						1,61	1,69
G1 1/2	F1	142.5	114.5	161.5	133.5	55	39	110	22	85	1,51	1,63
	G1	155	127	175.5	147.5	61	46				1,75	1,83
G2	F1	157	123	176	142	55	39	133.5	22	108	2,33	2,45
	G1	169	135	190	156	61	46				2,57	2,65