

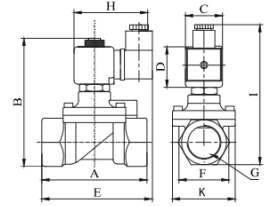
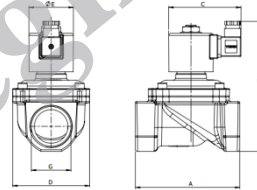
## SERVO ASIST SOLENOID VALVE

### GENERAL FEATURES

- Wide pressure ratings, range of flow rate and orifice options
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- 3/8" ... 1" solenoid valves suitable for water, liquid, gas
- 1 1/4" ... 2" solenoid valves suitable for water and liquid

### ELECTRICAL CHARACTERISTICS

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)(IEC 85)
- Coil Impregnation : Polyester Fiber Glass
- Ambient Temperature : -10°C, +60°C
- Protection Degree : IP65 (ISO 60529)
- Electric Plug Connection : DIN 46340 3-Poles Connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltage :
  - 3/8"-1" Size
    - AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA
    - DC 12V 18W, 24V 18W, 48V 18W, 110V 18W
  - 1 1/4"-2" Size
    - AC 12V 42VA, 24V 42VA, 48V 42VA, 110V 42VA, 230V 42VA
    - DC 12V 35W, 24V 35W, 48V 35W, 110V 35W other voltage on request
- Voltage Tolerances : AC -15%, +10%  
DC -5%, +10%
- Frequency : 50 Hz (60 Hz...)
- On request; connector with LED, PWM
- On request; for 3/8"-1" Atex coil (C41: II 2 G Ex mb IIC T4 IP67 veyva  
C43: II 2 G Ex d IIC T4 )



Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	108	
1/2"	79	100	32	45	92	39.5	52	76	110	
3/4"	79	107.5	32	45	94	41.5	52	76	118	
1"	85	115	32	45	101	42.5	52	76	124	

### MATERIAL

- Body : Brass
- Internal Parts : Stainless Stain
- Seal : NBR
- Shading ring : Copper (EN 12735-1)
- Core, Tube, spring : Stainless Stain

G	A	B	C	D	E
1 1/4"	149	185.5	103	110	63
1 1/2"	149	185.5	103	110	63
2"	149	185.5	103	110	63

### TECHNICAL FEATURES

- Max Viscosity : 5°E (~37cST or mm<sup>2</sup>/s)
- Response Time : Opening Time: 400 ms – 1600 ms  
Closing Time: 1000 ms - 2000 ms

Solenoid Valve	Valve Type	Connection Size	Orifice Size	Pressure min/max			Kv	Seal			Weight	Atex Coil
				Min. Bar	Water, Liquid Max. Bar	Air, Gas Max. Bar		Lt/min	NBR	EPDM		
	S1000.02.125	3/8"	12.5	0	16	16	48	✓	✓	✓	0.68	✓
	S1000.03.145	1/2"	14.5	0	16	16	70	✓	✓	✓	0.71	✓
	S1000.04.170	3/4"	17	0	16	16	85	✓	✓	✓	0.8	✓
	S1000.05.170	1"	17	0	16	16	90	✓	✓	✓	0.97	✓
	S1000.06.300	1 1/4"	30	0	16	3	250	✓	✓	✓	3.50	-
	S1000.07.390	1 1/2"	39	0	16	3	300	✓	✓	✓	3.20	-
	S1000.08.460	2"	46	0	16	3	350	✓	✓	✓	2.98	-

### STANDARDS

- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure equipment directive (PED) and 2006/95/ECC Low voltage directive (LVD)