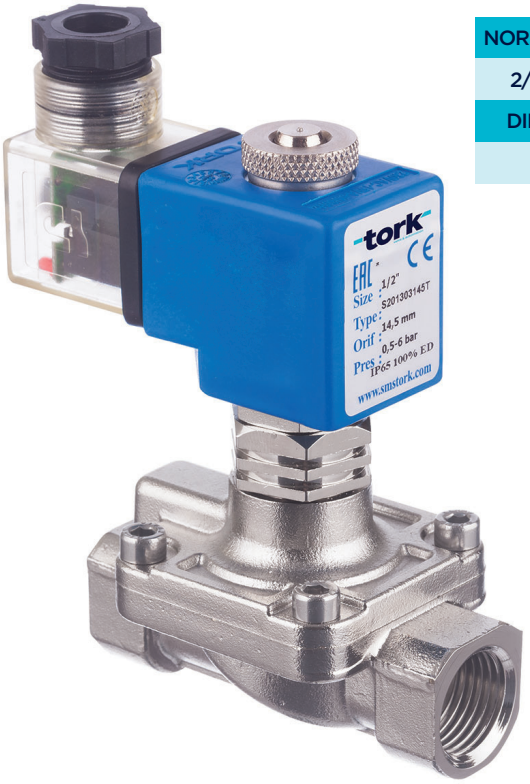
High Temperature Steam Solenoid Valves S2093 Series (G3/8", G1/2", G3/4",G1")



NORMALLY CLOSED

2/2 OPERATED

DIRECT ACTING

ΔP=0

STEAM

GENERAL FEATURES

- Especially for overheated water and steam
- With cooling neck. By this way, the effect of the fluids temperature on the coil is reduced
- Suitable for liquids and gaseous fluids
- Working Temperature: -20 °C / +160 °C
- Minimum operating pressure differential 0,5 bar
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- Coils interchangeable
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.

ELECTRICAL CHARACTERISTICS

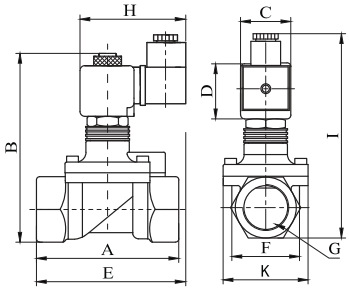
Continuous Duty : ED %100
Coil Insulation Class : H (180°C)(IEC 85)
Coil Impregnation : Polyester Fiber Glass
Ambient Temperature : -20°C, +60°C
Protection Degree : IP65 (ISO 60529) with coil duly fitted with the plug connector
Electric Plug Connection : DIN 46340 3-Poles Connector (DIN 43650)
Connector Specification : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)
Electrical Safety : IEC 335
Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V
For DC 12V, 24V, 48V, 110V
On request other voltages
Voltages Tolerance : AC -15%, +10% DC -5%, +10%
Frequency : 50 Hz (60 Hz...)
On request; Connector with LED
Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

Body : Nicked Plated Brass
Internal Parts : Stainless Steel and Brass
Sealing : PTFE
Shading Ring : Copper
Seats : Brass
Core Tube : Stainless Steel
Springs : Stainless Steel
On request; body and internal parts can be stainless steel

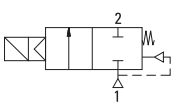
TECHNICAL FEATURES

Max. Viscosity : 5°E (~37cST veya mm²/s)
Response Time : Opening time : 400 ms – 1600 ms
Closing Time : 1000 ms - 2000 ms



Dimensions (mm)									
G	A	B	C	D	E	F	K	H	I
3/8"	74	112	32	45	91.3	37.5	52	76	126
1/2"	79	115	32	45	92	39.8	52	76	112.7
3/4"	79	122.3	32	45	94	41.5	52	76	135.5
1"	85	130	32	45	101	42.5	52	76	141.5

Coils	Nominal Values	Cold/ Hot	Inrush	Holding	Current (A)	Surface Temperature (°C)
C40012VDC18W	12VDC 18W	COLD	19,56	19,56	1,63	20
		HOT	14,52	14,52	1,21	106
C40024VDC18W	24VDC 18W	COLD	20,88	20,88	0,87	25
		HOT	14,64	14,64	0,61	116
C40110VDC18W	110VDC 18W	COLD	19,96	19,96	0,18	23
		HOT	13,56	13,56	0,123	115
C40012VAC15VA	12VAC 15VA	COLD	23,81	16,43	1,3	25
		HOT	-	15,86	1,262	79
C40024VAC15VA	24VAC 15VA	COLD	25,82	15,02	0,62	22
		HOT	-	13,91	0,57	81
C40110VAC15VA	110VAC 15VA	COLD	30,65	15,17	0,137	24
		HOT	-	13,96	0,126	80
C40230VAC15VA	230VAC 15VA	COLD	31,4	15,64	0,068	25
		HOT	-	14,41	0,063	80
C40230VAC24VA	230VAC 24VA	COLD	45,1	23,92	0,0154	23
		HOT	-	21,62	0,0154	100

Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max		Kv	Fluid Temperature °C		Seal	Weight	Temperature
	S2093	G	mm	Bar	Bar	l/min	min	max	PTFE	kg	°C
	S2093.02	3/8"	12.5	0.5	6	48	-10	180	✓	0,8	160
	S2093.03	1/2"	14.5	0.5	6	70	-10	180	✓	0,82	160
	S2093.04	3/4"	17	0.5	6	85	-10	180	✓	0,82	160
	S2093.05	1"	17	0.5	6	90	-10	180	✓	1,1	160

STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 1.20.3)) are available on request.
- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

Not: Please look catalogues for more details

TS2093EN260506