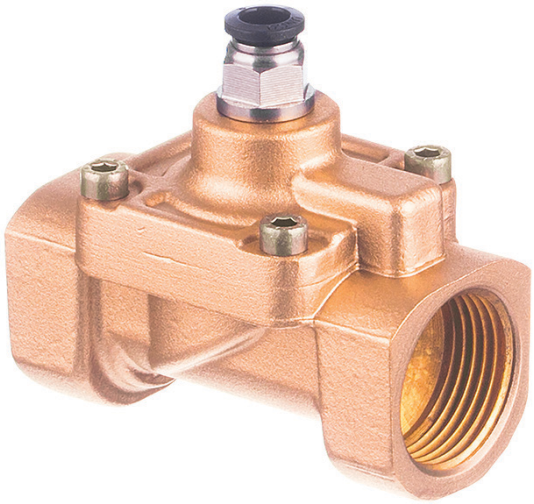
Remote Air Control Solenoid Valves S9510 Series

TYPICAL APPLICATION

- Industrial Furnaces
- Heating equipment
- Burners
- Oil and gas
- Dental appliances
- Dental machinery and irrigation

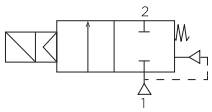


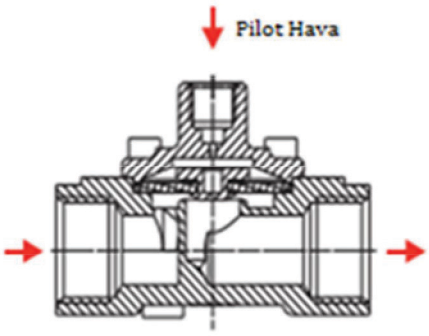
NORMALLY OPEN
2/2 WAY
PILOT OPERATED
ΔP=0

TECHNICAL SPECIFICATION

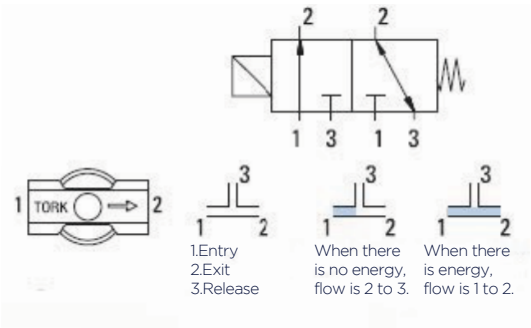
Fluid	: Air, water, gas, fuel, oil
Pressure	: 0-10 bar
Temperature	: -20°C, +80°C
Diaphragm	: NBR (VITON or EPDM optional)
Pilot Air Pressure	: Pilot Air Pressure must be 1 bar higher than the fluid pressure.

It is a good choice for ex-proof applications that are not electrical parts.

Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max		Kv	Seal			Weight
								Opsiyon		
	S2013	G	mm	Bar	Bar	Lt/dk	NBR	EPDM	VITON	kg
	S9510.02.125	3/8"	12.5	0,5	10	48	✓	✓	✓	0,68
	S9510.03.145	1/2"	14.5	0,5	10	70	✓	✓	✓	0,71
	S9510.04.170	3/4"	17	0,5	10	90	✓	✓	✓	0,8
	S9510.05.170	1"	17	0,5	10	90	✓	✓	✓	0,97
	S9510.06.300	1 1/4"	30	0,5	10	250	✓	✓	✓	2,65
	S9510.07.380	1 1/2"	39	0,5	10	370	✓	✓	✓	2,55
	S9510.08.460	2"	46	0,5	10	450	✓	✓	✓	2,98



OPERATION OF THE VALVE





In applications up to 7 bar usually 3/2 directional control valve is used. In the applications 7 bar and up we prefer to use solenoid valve.The operating system of two valves are the same. TORK S101501018E.006 solenoid valve or 3/2 way valve is connected to the pilot air inlet of the valve. When there is no energy on the coil, no air will flow; thus the fluid passes through valve defeating the pressure on diaphragm and flows. When coil energised, the air passing across the pilot entry fills in the valve and the diaphragm got balanced. Then, valve goes to the closed position, so fluid can't flow. Also, when the coil denergised, the air filled to upper side of the diaphragm got released through TORK solenoid valve's venting or 3/2 NAMUR control valve's exhaust to out.



TS9510EN261001