

TORK AIR CONTROL VALVE



Typical applications:

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

Technical Specifications

Functions: 2/2 way normally open

Fluid: air, water, gas, fuel, oil

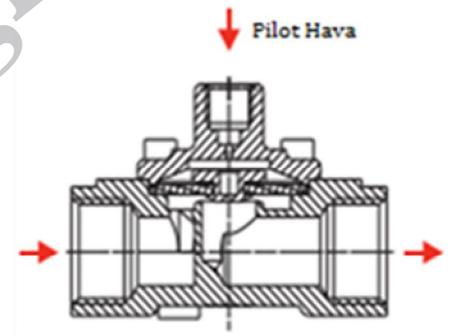
Pressure: 0...10 bar

Temperature: -10...80° C

Diaphragm: NBR

Pilot Air Pressure: At least 1 bar must be higher than the fluid pressure.

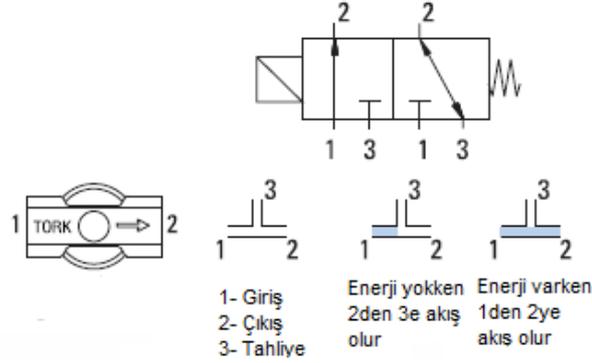
→ It is a good choice for ex-proof applications that are not electrical parts.



| Model | Connection Size | Orifice | Pressure | | Kv | Temperature | | Diaphragm | Weight |
|--------------|-----------------|-----------|------------|------------|--------------|-------------|-----------|-----------|-----------|
| | | | min. | max. | | min. | max. | | |
| S9510 | G | mm | bar | bar | lt/dk | °C | °C | | kg |
| S9510.02.125 | 3/8" | 12,5 | 0 | 10 | 48 | -10 | +80 | NBR | 0,68 |
| S9510.03.145 | 1/2" | 14,5 | 0 | 10 | 70 | -10 | +80 | NBR | 0,71 |
| S9510.04.170 | 3/4" | 17 | 0 | 10 | 85 | -10 | +80 | NBR | 0,8 |
| S9510.05.170 | 1" | 17 | 0 | 10 | 90 | -10 | +80 | NBR | 0,97 |
| S9510.06.300 | 1 1/4" | 30 | 0 | 10 | 345 | -10 | +80 | NBR | 2,65 |
| S9510.07.380 | 1 1/2" | 38 | 0 | 10 | 400 | -10 | +80 | NBR | 2,55 |
| S9510.08.460 | 2" | 46 | 0 | 10 | 580 | -10 | +80 | NBR | 2,98 |

→ Viton or EPDM diaphragms are other options.

Operation of the valve



In applications up to 7 bar usually 3/2 directional control valve and in the applications 7 bar and up we prefer to use solenoid valve. The operating system of two valve 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 flow of pilot, 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 deenergised, 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.

