SERIES TC SHUT-OFF MICRO-VALVES

Series TC shut-off micro-valves



2/2-way - Normally Closed (NC)





- » Compact design
- » High performance
- » Ease of installation
- » Compatibility between materials used and several gaseous fluids
- » Suitable for applications with oxygen

The principle of the Series TC1-V shut-off micro-valves is based on the actuation of a poppet by means of an operating pressure applied above it.

The poppet, once actuated, moves away from the tightening seal, permitting the flow of the intercepted fluid.

By removing the actuation pressure, the poppet repositions itself on the tightening seal by means of a spring positioned below that closes the flow of the fluid.

For its realization the most suitable materials for contact with fluids were selected. The body in PPS and the FKM tightening seals guarantee full compatibility with a wide range of gaseous fluids.

GENERAL DATA

Construction compact with pre-formed diaphragm see the TABLE OF MATERIALS

Materials

Ports cartridge construction in manifold - G1/8 or 1/8NPTF (only for aluminium body version)

in-line or cartridge (any position) Mounting

Operating temperature -5°C ÷ 50°C Inlet pressure 0 ÷ 10 bar Pilot pressure 0.6 ÷ 10 bar

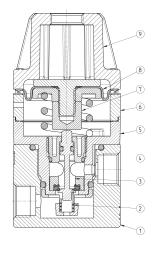
240 Nl/min (6 bar ΔP 1 bar) Nominal flow Medium air, inert/medical gases and oxygen



CODING EXAMPLE

TC	1	-	V	36	-	C	-	V	-	OX2
TC	SERIES									
1	SIZE									
V	VALVE									
36	CONSTRUCT	ION: natic command								
С	PORTS: C = Cartridg 1/8 = G1/8 1/8TF = 1/8									
V	SEALS MATE V = FKM	RIAL:								
OX2			tile residue lower tile residue lower	than 550 mg/m²) than 33 mg/m²)						

Series TC shut-off micro-valves - materials

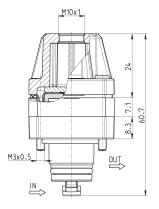


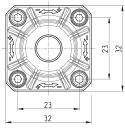
PARTS	MATERIALS				
1. Base body	Anodized aluminium				
2. Lower spring	Stainless steel				
3. Insert	PPS				
4. Poppet	Stainless steel				
5. Body	PPS				
6 Intermediate body	Anodized aluminium				
7. Valve guide	Polyamide				
8. Diaphragm	FKM				
9. Bell	Polyamide				
Seals	FKM				

SERIES TC SHUT-OFF MICRO-VALVES

Series TC cartridge shut-off micro-valves









Mod.

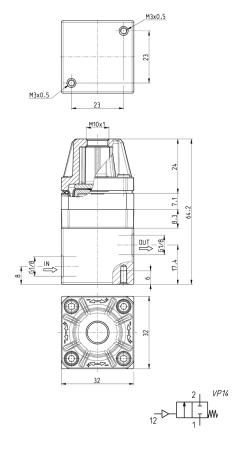
TC1-V36-C-V-OX1

TC1-V36-C-V-0X2

Series TC shut-off micro-valves with aluminium body



* to choose the type of thread (G1/8 or 1/8 NPTF) see the Coding example



Mod.

TC1-V36-*-V-OX1

TC1-V36-*-V-0X2

CAMOZZI Automation

Seat dimensions for Series TC cartridge valve

