

SERIES TC



The new Series TC pressure regulator has been designed to be used for all the applications and equipment where it is needed to insert the single component in customized integrated pneumatic circuits (manifolds) or collectors.

The cartridge design and the compact size allow the regulator to be plugged in a proper seat, making the installation easier and reducing the assembly time. To produce the new TC regulator, materials have been analized and chosen on the basis of their suitability with the contact medium. The body in PPS and the seals in FKM ensure thus full compatibility with a wide range of gaseous fluids.

For applications with oxygen
Ports: cartridge,
G1/8 and 1/8 NPTF
Compact design
High performance
Easy to install
Materials suitable
with several gasesin
medical equipment
and analytical instruments

General data

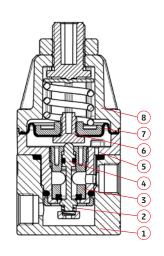
Construction	compact with pre-formed diaphragm	
Materials	see the TABLE OF MATERIALS	
Ports	cartridge - G1/8 or 1/8 NPTF (aluminium body version only)	
Mounting	in-line or cartridge (any position)	
Operating temperature	-5°C ÷ 50°C	
Inlet pressure	0 ÷ 10 bar	
Outlet pressure	0 ÷ 0.5 bar 0 ÷ 2 bar 0 ÷ 3 bar 0 ÷ 4 bar	
Overpressure exhaust	without relieving	
Nominal flow	see the FLOW DIAGRAMS	
Medium	air, inert and medical gases, OXYGEN	
Repeatability	±0.2% FS	

Coding example

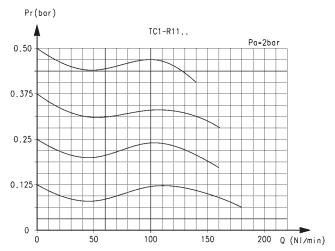
1	
TC	1 - R 3 1 - C - V - OX2
TC	SERIES
1	SIZE
R	REGULATOR
3	WORKING PRESSURE: 1 = 0 ÷ 0.5 BAR 2 = 0 ÷ 2 BAR 3 = 0 ÷ 3 BAR 4 = 0 ÷ 4 BAR
1	TYPE OF CONSTRUCTION: 1 = WITHOUT RELIEVING
С	PORTS: C = Cartridge 1/8 = G1/8 1/8TF = 1/8 NPTF
V	SEALS MATERIAL: V = FKM
OX2	VERSIONS: OX1 = for oxygen (non-volatile residue lower than 550 mg/m²) OX2 = for oxygen (non-volatile residue lower than 33 mg/m²)

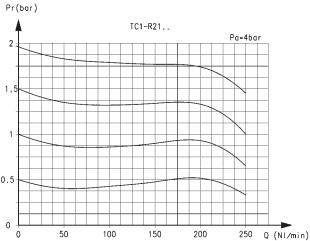
MATERIALS

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



FLOW DIAGRAMS - 0.5 and 2 bar working pressure





Pr = Regulated pressure

Q = Flow

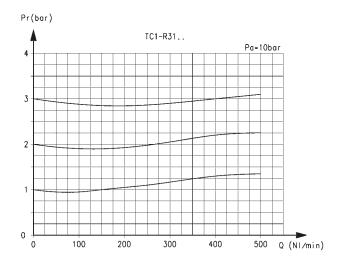
Pa = Inlet pressure

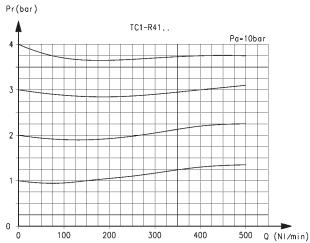
Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

FLOW DIAGRAMS - 3 and 4 bar working pressure





Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

Cartridge pressure microregulators



Mod.

TC1-R11-C-V-OX1

TC1-R11-C-V-OX2

TC1-R21-C-V-OX1

TC1-R21-C-V-OX2

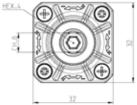
TC1-R31-C-V-OX1

TC1-R31-C-V-OX2

TC1-R41-C-V-OX1

TC1-R41-C-V-OX2







PR01 = regulator without relieving

Pressure microregulators with aluminium body



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

Mod.

TC1-R11-*-V-OX1

TC1-R11-*-V-OX2

TC1-R21-*-V-OX1

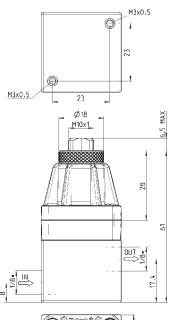
TC1-R21-*-V-OX2

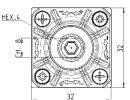
TC1-R31-*-V-OX1

TC1-R31-*-V-OX2

TC1-R41-*-V-0X1

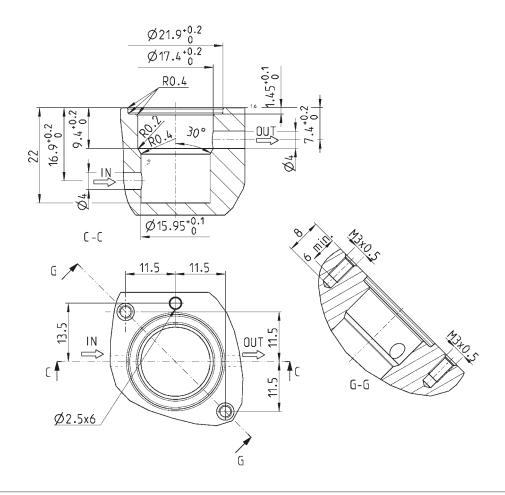
TC1-R41-*-V-OX2







PR01 = regulator without relieving



Contacts

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