

TECNOCRYO PRESSURE REGULATOR TCR60 PHARMA



TCR60 "PHARMA" Series 1/4" to 1 1/2"

PRESSURE REGULATORS

Stainless steel

OIL & GAS



1/4" - 1/2" - 3/4"



3/4" - 1" - 1.1/2"

70 BAR

OPTIONAL

TCR 6 | "PHARMA" SERIES FROM 1/4" TO 1.1/2"

Pressure Regulators for LIQUIDS and GASES made of stainless steel 316 L, designed and manufactured for Pharmaceutical industries and Biotechnological applications. Control system with membrane convolved for best stability and precision. Balanced poppet-valve (shutter) to keep outlet pressure almost constant and independent from fluctuation of inlet pressure.

DESIGN FOR CIP AND SIP CYCLES.

Self-relieving execution for exhausting over-pressure, just for compress air service. Outlet pressure range till to 17.2 bar (250 psi). Adjusting by screw hex head. Special version (i.e. without self relieving for gases and liquid) on request. The pressure gauge can be mounted on both sides. Important: fupstream filter is strictly recommended.

APPLICATIONS:

- Pharmaceutical industry;
- Chemical industry;
- Oil & gas and Off Shore applications;
- Food industry;

FEATURES:

- Particular attention to the low level of roughness of surfaces, to grant high standard of cleaning;
- Compatible for use in aggressive environment;
- Suitable for extreme temperatures (-60°C), critical environments, hazardous applications;
- Suitable to be cleaned and sanitized by the most common processes;

MATERIALS

Body, bonnet	316L stainless steel (14404)
Seals	EPDM - Silicone - VITON
Diaphragm	EPDM - FKM - Silicone
Internal parts	316L stainless steel (14404)
Shutter	EPDM - Silicone

TECHNICAL DATA

	1/4" - 1/2" - 3/4" - 1" - 1.1/2"
Port thread	TC ASME BPE - TC DIN32676 - ISO1127-1 In linea/Inline pattern
P. max Inlet	60 Bar - 870 psi (50 bar Temp>80°C) Optional version TCR7 70 BAR
Range outlet pressure	0.3-3 / 0.5-8 / 0.5-17.2 Bar 44-44 / 7.2-116 / 7.2-250 psi
Roughness	≤0,5µm (optional)
Soft Seat leaking rate	ANSI Classe VI
Flow rate *)	290 Nm3/h - 4800 dm3/min
Kv*)	Kv = 2.12 Nm3/h (EN 60534)
Weight	1.80kg (1/4") 240kg (1/2"-3/4") 3.7kg(1"-1.1/2")
Working temp.	- 60°C to +230°C Silicone
Conformity to Directives	CE 94/9/EC ATEX - ASTM A182 Nace MR0.175 - 97/23/EC PED - FDA

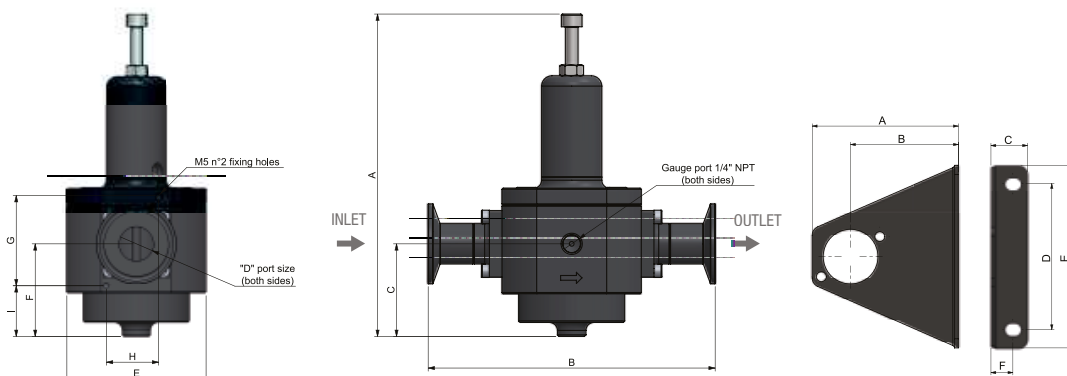
*) P_{IN} 10bar, P_{OUT} 6.3bar, ΔP 1bar

TCR60 "PHARMA" Series ¼" to 1½"

PRESSURE REGULATORS

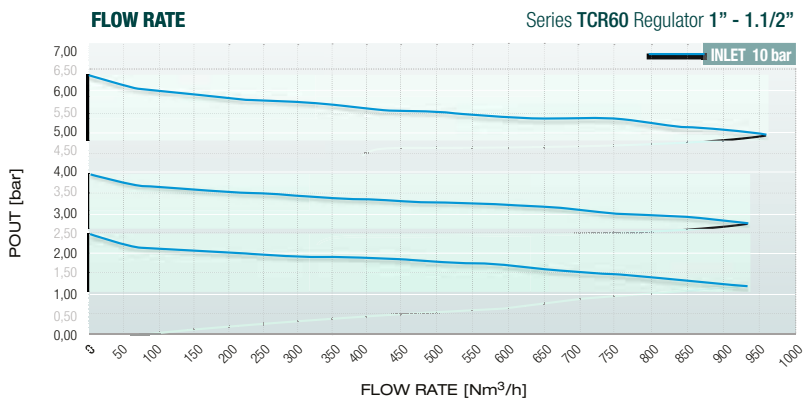
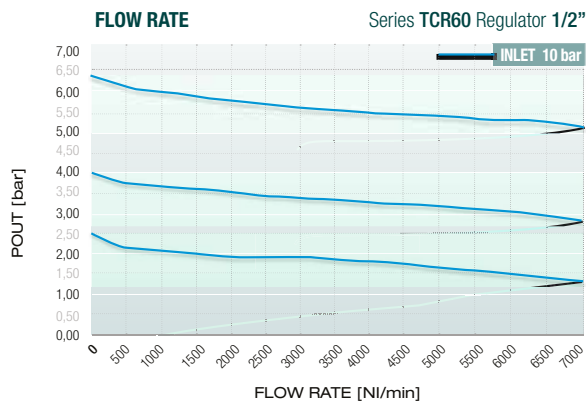
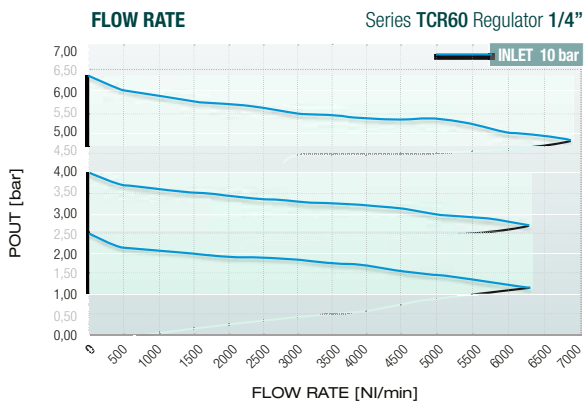
Stainless steel

DESIGNED AND CONSTRUCTED FOR HEAVY-DUTY APPLICATIONS



SIZE	A	B	C	D	E	F	G	H	I
1/4"	163	1174	41	1/4"	60	41	28	28	31
1/2"-3/4"	166	1254	43	1/2"-3/4"	68	43	22	32	32
1"-3/4"	204	1814	59	3/4"-1"	88	59	57	33	32
1.1/2"	204	1454	59	1.1/2"	88	59	57	33	32

SIZE	A	B	C	D	E	F
1/4"	80	59	20	80	100	12
1/2"-3/4"	80	59	20	80	100	12
¾"-1"-1½"	88	59	20	80	100	12



OPTIONALS

- Bracket • O-ring Kalrez® • Self Reliving for Air
- TRICLAMP ISO1127-1 DIN32676 • Threaded connection for exhausting gas on bonnet
- Dome loaded execution • ATEX Release

NOTE



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