

TECNOCRYO HIGH PRESSURE REGULATOR TCR100



TCR100 Standard Series 1/4" to 3/8"

PRESSURE REGULATORS

Stainless steel

OIL & GAS



100 BAR

TCR 100 | STANDARD SERIES FROM 1/4" TO 3/8", 100 BAR

Pressure Regulators made of stainless steel 316 L designed and manufactured for heavy-duty applications. Control system with convoluted diaphragm for the best stability and precision. Balanced poppet-valve (shutter) to keep the outlet pressure almost constant and independent from fluctuation of inlet pressure. Self-relieving execution for exhausting over-pressure, just for compressed air application. Outlet pressure range till to 50 bar. Adjusting by screw with hex. head. Including two gauges for inlet and outlet pressure. Special version (i.e. no self-relieving for gases and liquid) on request.

Important: upstream 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
Seals	HNBR - EPDM - FKM - Silicone
Diaphragm	HNBR - EPDM - FKM - Silicone
Internal parts	316L stainless steel
Shutter	PU - HNBR - EPDM - FKM - Silicone

TECHNICAL DATA

Port thread	1/4" BSPP F - 1/4" NPT F 3/8" BSPP F - 3/8" NPT F	
P. max Inlet	100 Bar (50 bar Temp>80°C)	
Range outlet pressure	0.3-3 / 0.5-8 / 0.5-17.2 / 2.5-25 / 5-50 Bar / 4.4-44 / 7.2-116 / 7.2-250 / 36-362 / 72.5-725 Psi	NEW
Gauge connections	1/4" BSPP F - 1/4" NPT F	
Self-relieving port	1/8" Gas F	
Flow rate *)	290 Nm3/h - 4800 dm3/min	
Kv*)	Kv = 2.12 Nm3/h (EN 60534)	
Weight	1.9 kg/4.1lb	
Working temp.	-25°C to +110°C (HNBR) / -50°C to +130°C (EPDM) -60°C to +230°C (Silicone) / -20°C +200°C FKM (optional)	
Conformity to Directives	CE 94/9/EC ATEX - ASTM A182 Nace MR0.175 - 97/23/EC PED	

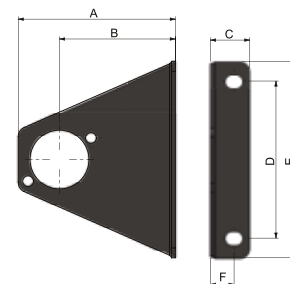
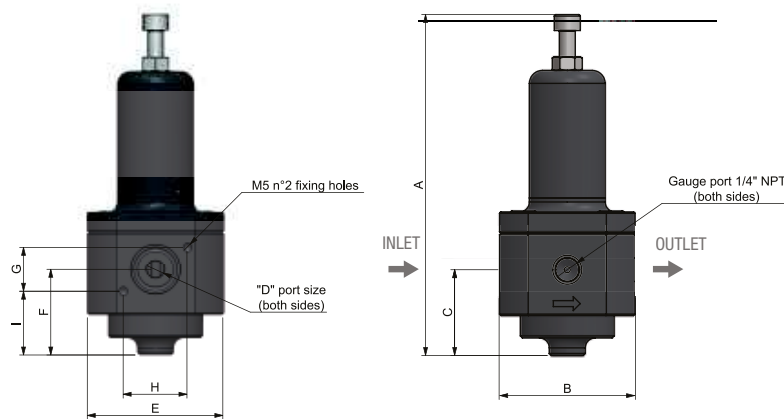
*) P_{IN} 10bar, P_{OUT} 6.3bar, ΔP 1bar

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PRESSURE REGULATORS

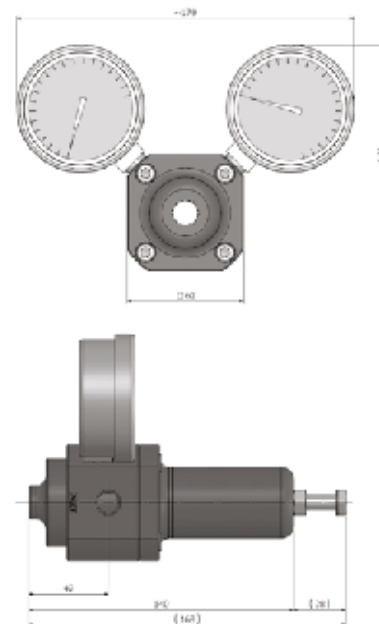
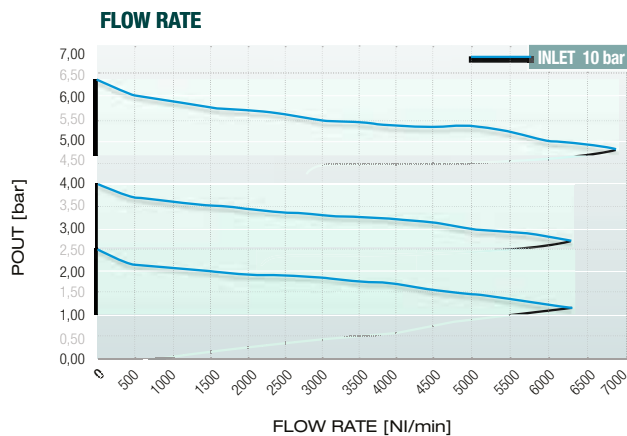
Stainless steel

DESIGNED AND CONSTRUCTED FOR HEAVY-DUTY APPLICATIONS



SIZE	A	B	C	D	E	F	G	H	I
1/4"-3/8"	160	62	42	1/4"	62	42	28	28	31

SIZE	A	B	C	D	E	F
1/4"-3/8"	80	59	20	80	100	12



OPTIONALS

- Flanges (EN1092-1/ANSI)
- Without relieving
- Dome loaded version
- Tri-Clamp Connections
- Threaded hole for connecting gas on bonnet
- FDA Certification

NOTE



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