

## PRESSURE REGULATORS

Stainless steel

## TCR 6X I-II SERIE

STANDARD SERIES FROM 1/4" TO 3/4", 60 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 (725 psi). Adjusting by screw with hex. head. Connections for outlet pressure gauge on both the sides. Special version (i.e. no self-relieving for gases and liquid) on request.

**Important:** filter upstream the press. reg. 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

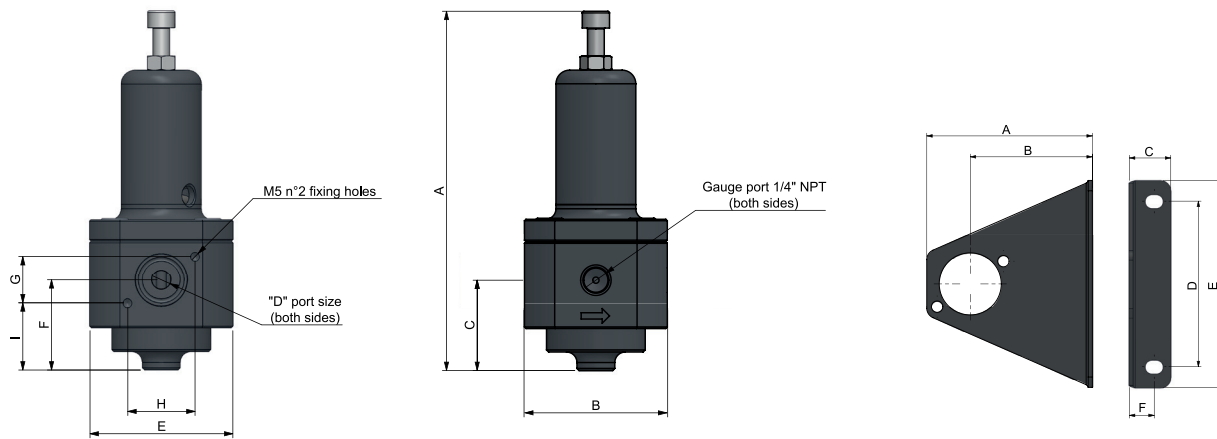
Body, bonnet	316L stainless steel
Seals	NBR – EPDM - FKM - Silicone
Diaphragm	NBR – EPDM - FKM - Silicone
Internal parts	316L stainless steel
Shutter	PU - NBR – EPDM - FKM - Silicone

### TECHNICAL DATA

	1/4" – 3/8" SERIE I	1/2" – 3/4" L SERIE II
Port thread	1/4" – 3/8" BSP F ; 1/4" – 3/8" NPT F	1/2"-3/4" BSP F ; 1/2"-3/4" NPT F
P. max Inlet	60 Bar (50 bar Temp>80°C) Optional version TCR7 70 BAR	
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	
Gauge connections	1/4" BSP F - 1/4" NPT F	
Self-relieving port	1/8 GF	M6
Flow rate*	290 Nm3/h – 4800 dm3/min	370 Nm3/h – 6166 dm3/min
Kv*	Kv = 2.12 Nm3/h (EN 60534)	
Weight	1.6kg/3lb	2.3kg/5lb
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	2014/34/EU ATEX - ASTM A182 Nace MR0.175 - 2014/68/EU PED	

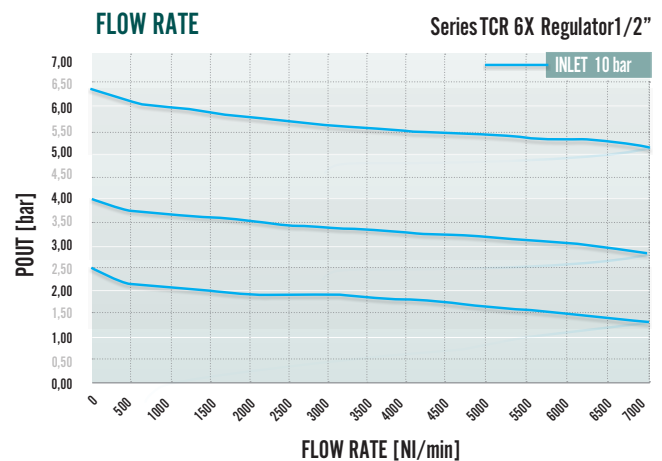
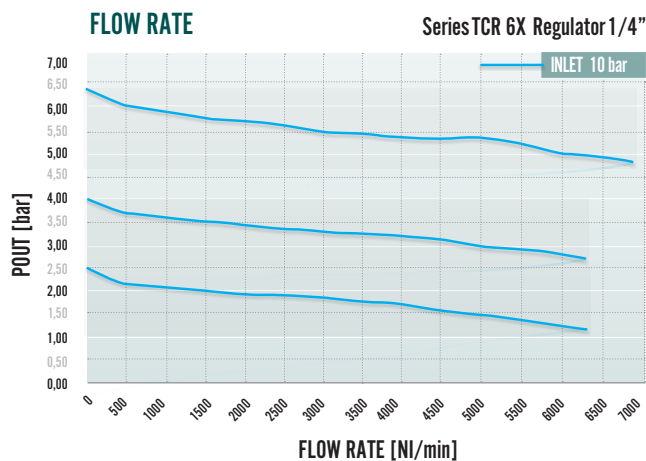
\*) P<sub>IN</sub> 10bar, P<sub>OUT</sub> 6.3bar, ΔP 1bar

## Stainless steel



SIZE	A	B	C	D	E	F	G	H	I
1/4"	163	60	41	1/4"	60	41	22	28	31
1/2"-3/4"	166	68	43	1/2"	68	43	22	32	32
3/4" L	179	68	47	1/2"-3/4"	68	47	22	32	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



## OPTIONALS :

- Bracket • Gauge • Flanges (EN1092-1 / ANSI) • Tri-Clump connections • Without relieving • Dome loaded version
- Oring Kalrez ® • Threaded connection for exhausting gas on bonnet • FDA Approval