

# TECNOCRYO HIGH PRESSURE REGULATOR TCR60



# TCR60 Standard Series 1/4" to 3/4"

## PRESSURE REGULATORS

Stainless steel

## TCR 6 | 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;

OIL & GAS



70 BAR

OPTIONAL

### 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"                                                                                              | 1/2" - 3/4" L                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 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                                                 | 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                                                             | 44-44 / 7.2-116 / 7.2-250 / 36-362 / 72.5-725 <b>NEW</b> |
| Gauge connections        | 1/4" BSP F - 1/4" NPT F                                                                                  |                                                          |
| Self-relieving port      | M6                                                                                                       | M6                                                       |
| Flow rate *)             | 290 Nm <sup>3</sup> /h - 4800 dm <sup>3</sup> /min                                                       | 370 Nm <sup>3</sup> /h - 6166 dm <sup>3</sup> /min       |
| Kv *)                    | Kv = 2.12 Nm <sup>3</sup> /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 | CE 94/9/EC ATEX - ASTM A182 Nace MR0175 - 97/23/EC PED                                                   |                                                          |

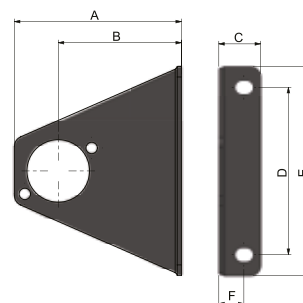
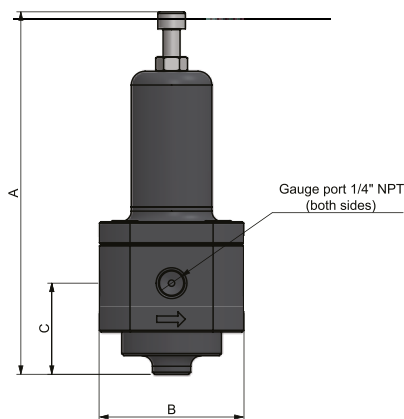
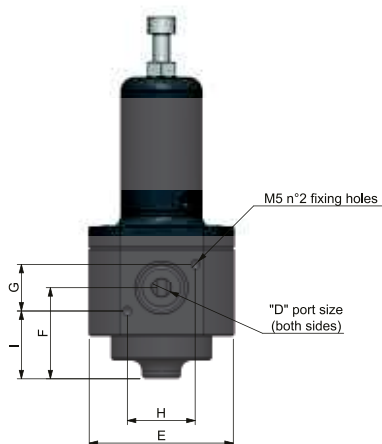
\*) P<sub>IN</sub> 10bar, P<sub>OUT</sub> 6.3bar, ΔP 1bar

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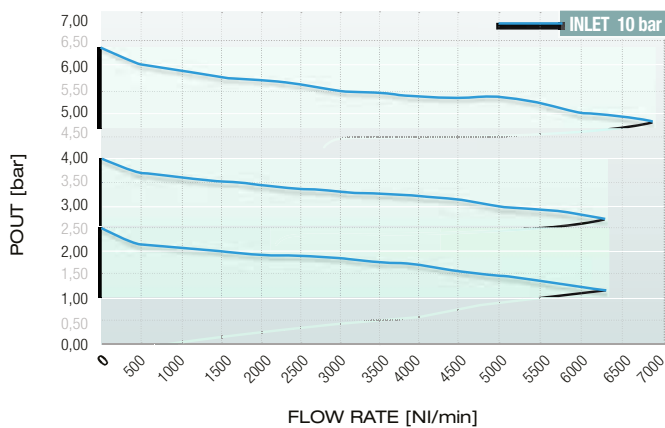
DESIGNED AND CONSTRUCTED FOR HEAVY-DUTY APPLICATIONS



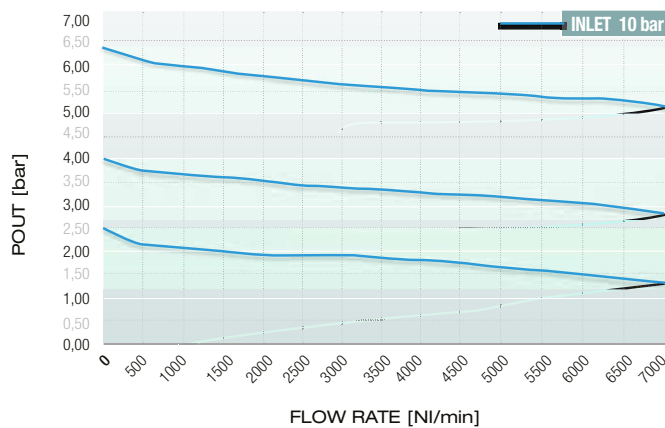
| SIZE      | A   | B  | C  | D         | E  | F  | G  | H  | I  |
|-----------|-----|----|----|-----------|----|----|----|----|----|
| 1/4"      | 163 | 60 | 41 | 1/4"      | 60 | 41 | 28 | 28 | 31 |
| 1/2"-3/4" | 166 | 68 | 43 | 163       | 68 | 43 | 22 | 32 | 32 |
| 3/4"      | 179 | 68 | 47 | 1/2"-3/4"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

FLOW RATE Series TCR60 Regulator 1/4"



FLOW RATE Series TCR60 Regulator 1/2"



## OPTIONALS

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

## NOTE



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