

R3190

Stainless steel AISI 316L precision pressure regulator



FEATURES

Precision pressure regulator for inlet pressure up to 6 bar (87psi).

Standard version connections G2-F, by flanges screwed to the body. NPT, 1 ½" or flanged connections available on request.

Outlet pressure is controlled by a rubber diaphragm. The main valve is balanced.

Available the ATEX version.

Brand   II2GDcIICX.

For use in potentially atmospheres zones: 1, 21, 2, 22 (not applicable in mines and zone 0).

The product complies with the directive 97/23/CE PED.

SPECIFICATIONS

Weight: ~35 kg (~77 lb)

Standard version operating temperature: -20°C ÷ +60°C (-4°F ÷ 140°F)

Main valve leakage classification: VI

Flow coefficient: $K_v = 5.7 \text{ Nm}^3/\text{h}$ (CV = 6,6 US gal/min)

Degree of protection: IP25

G $\frac{1}{4}$ ports for outlet pressure gauge

Adjusting screw to set outlet pressure

MATERIALS

Body and bonnet: stainless steel AISI 316L

Internal parts: stainless steel AISI 316L

Main valve spring: stainless steel AISI 302

Adjusting spring: C85 nickel plated NiP/Fe 15 μm (not in contact with the fluid)

Diaphragm: NBR and PTFE coupled diaphragms (PTFE diaphragm in contact with the fluid)

O-Rings: FPM/(EPDM for CO₂)

Main valve gasket: FPM/(EPDM for CO₂)

ACCESSORIES

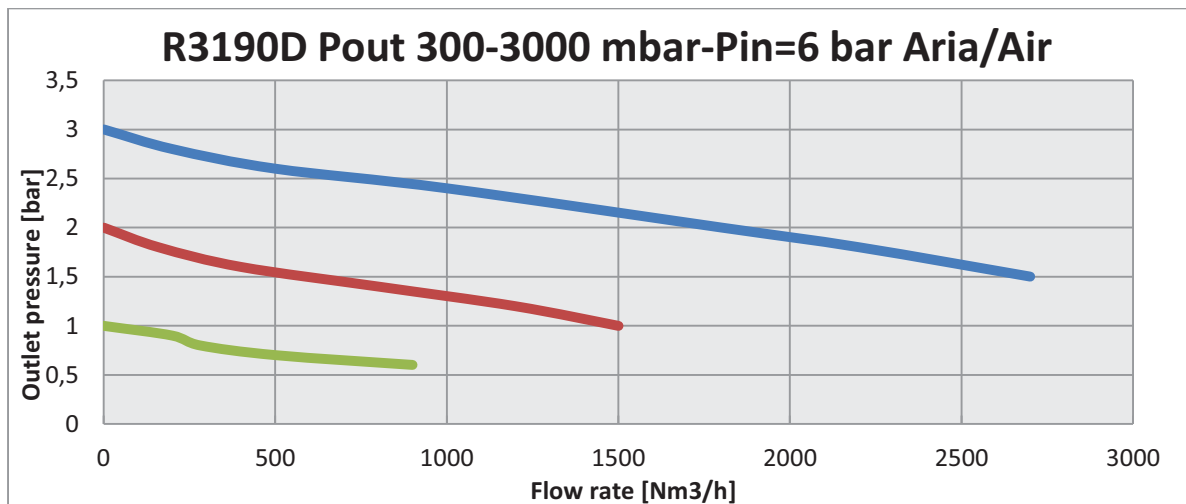
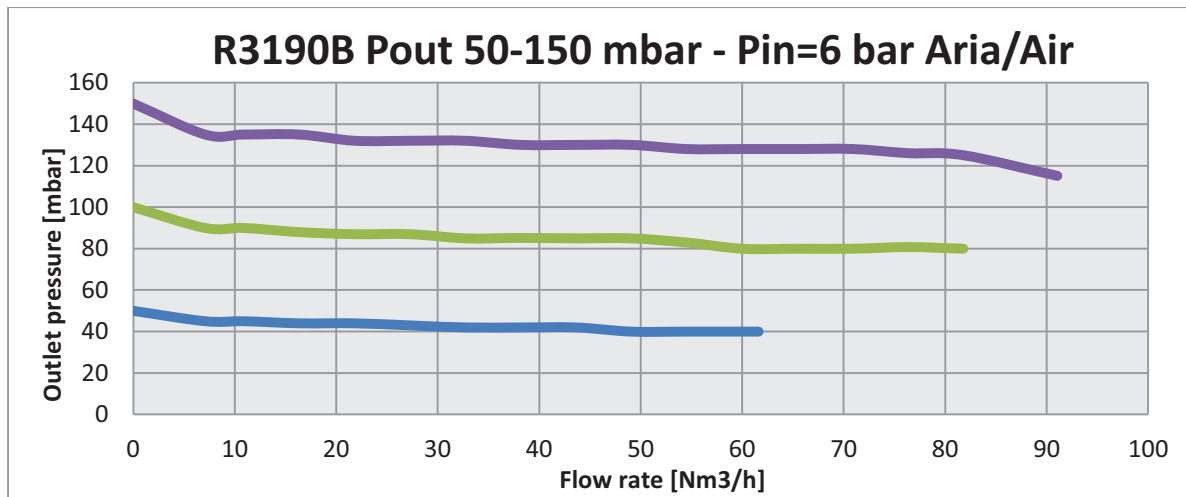
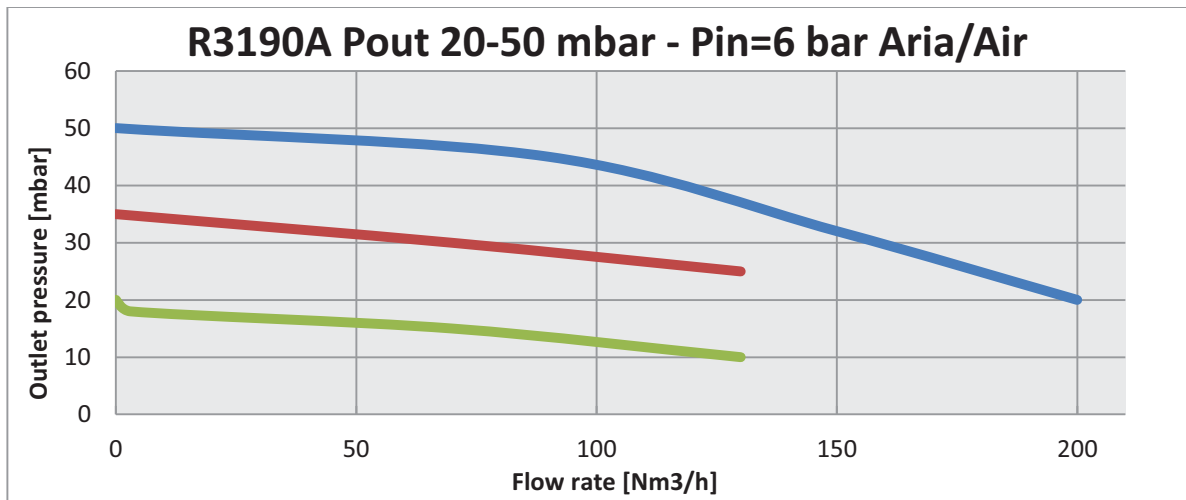
Gauges kit: accuracy class 1,6

SPARE PARTS

Gauges

Complete kit: assembled diaphragm, net filter, main valve, O-rings

flow charts



available model types

Regolatori di pressione ad alta sensibilità High sensibility pressure regulators

Campana in acciaio inox 316L / Bonnet of stainless steel 316L

Corpo in acciaio inox 316L / Body of stainless steel 316L

Particolari interni in acciaio inox 316L / Internal parts of stainless steel 316L

TYPE	PS bar	P.Out mbar	CONNECTION IN	CONNECTION OUT	CODE	MEDIUM
						R3190
R 3190 A	6	20-50	G 2-F	G 2-F	3190#TO	O2
						*
						**
R 3190 B	6	50-150	G 2-F	G 2-F	3190#TO	O2
						*
						**
R 3190 C	6	150-300	G 2-F	G 2-F	3190#TO	O2
						*
						**
R 3190 D	6	300-3000	G 2-F	G 2-F	3190#TO	O2
						*
						**

* Aria - N2 - He - Ar - H2 - C3H8 - CH4

** NH3 - CO2 - N2O

ATTACCHI DIVERSI DA STANDARD / CONNECTION DIFFERENT FROM STANDARD

Attacchi in/out diversi da standard (2" NPT-F - G 1 1/2-F - 1"1/2 NPT-F) / Connections different from standard (2" NPT-F - G
Attacchi flangiati / Connections with flanges

ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Pressione uscita pretarata, sopra 0,1 bar / Pre-set outlet pressure for outlet pressure more than 0,1 bar

Pressione uscita tarata fissa, sopra 0,1 bar / Fixed outlet pressure for outlet pressure more than 0,1 bar

O-ring secondo FDA / O-ring according to FDA

O-ring diversi da standard - EPDM / O-ring different from standard - EPDM

Convogliamento su campana / Connection for bonnet piping

Stampigliatura su specifica del cliente / Not standard branding

Versione ATEX / ATEX version

Temperatura diversa da standard / Temperature different from standard

Sgrassato uso O2 / Degreased for O2

ACCESSORI / ACCESSORIES

Kit manometro ø 63 e raccordo inox Stainless steel Gauge ø 63 back connection with fitting	R 3190 A	M63304	0+100 mbar 0+1000 mmH2O
	R 3190 B	M63302	0+300 mbar 0+3000 mmH2O
	R 3190 C	M63303	0+1bar
	R 3190 D	M63306	0+6 bar

generating the product code

R3190 aisi316			
AA BB CC DD E FF			
AA	Attacchi / Connections	T0	G 2-F
BB	Pressione ingresso / Inlet pressure	A0	PS 6 bar
CC	Intervallo uscita / Outlet range	B0	MOD D Pout 0,3 - 3 bar
		L0	MOD C Pout 150 - 300 mbar
		R0	MOD A Pout 20 - 50 mbar
		U0	MOD B Pout 50 - 150 mbar
DD	Tipologia di fluido / Fluid type	98	EPDM
		99	FPM
E	Marchiato / Marked	I	ID
		Z	Dir ATEX 94/9 CE
FF	Accessori / Accessories	00	Nessun accessorio

CODE COMPOSITION EXAMPLE

3190#T0 A0 R0 99 I 00

3190#: Regulator R3190 in AISI 316

T0: Connection G2-F

A0: Maximum inlet pressure 6 bar

R0: Outlet pressure range 20 - 50 mbar

99: FPM Gaskets

I

00: No accessories

technical drawings (all dimensions in mm)

MODEL	H	Pout	GAUGE KIT	GAUGE
R3190A	~ 431	20 ÷ 50 mbar	M63304	0 ÷ 100 mbar
R3190B	~ 431	50 ÷ 150 mbar	M63302	0 ÷ 300 mbar
R3190C	~ 467	150 ÷ 300 mbar	M63303	0 ÷ 1 bar
R3190D	~ 430	0.3 ÷ 3 bar	M63306	0 ÷ 6 bar

