

Cylinder regulators

HPI 100

High purity single-stage barstock regulator



Model HPI 100 is a single-stage cylinder regulator available in chrome-plated brass (HPI 100C) or stainless steel (HPI 100S) barstock. Designed for applications where a slight rise in delivery pressure from full to empty cylinder can be tolerated.

APPLICATIONS:

- High purity gas applications
- Research sample systems gases
- Gas chromatography
- Calibration gas
- Process analyzer gases
- Emission monitoring systems

FEATURES:

- Recommended gases purity levels up to grade 6.0 (99.9999)
- Stainless steel version applicable also for corrosive gases after prior confirmation of the material's compatibility
- 316L stainless steel diaphragm eliminates contamination from diffusion or outgassing
- Low wetted surface area
- HPI 100C - chrome-plated body, bonnet and fittings
- HPI 100S - 316L stainless steel body, bonnet and fittings
- 1×10^{-9} mbar l/s He inboard helium leak rate to maintain gas purity levels
- 6 ports flexible configuration, 3 high pressure and 3 low pressure
- 1/8" NPT thread on the bonnet venting for safety in 316L SS version
- Maximum inlet pressure 300 bar (4350 psig), except for Acetylene: max. 25 bar (362 psig)
- Cleaned for oxygen service

TECHNICAL DATA:

Type	Single-stage
Purity	Up to 6.0
Inlet pressure	Max. 300 bar (4350 psig) For Acetylene: max. 25 bar (362 psig)
Outlet pressure	1,5/2/4/10/20 bar (21/29/58/145/290 psig) For Acetylene: max. 1,5 bar (21 psig)
Flow capacity	Kv = 0,0602 (Cv = 0,07)
Gauges	49mm dual scale (bar/psig)
Oxygen use	Suitable

MATERIALS:

Body, bonnet	316L stainless steel barstock or chrome-plated brass barstock
Diaphragm	Hastelloy®*C276
Nozzle	316L stainless steel
Seat	PCTFE
Seals O-ring	Viton®** (FKM) Kalrez®*** (FFKM) for corrosive gases
Filter	SS 316L Micro Sintered
Adjusting Knob	ABS plastic

* Hastelloy® is a registered trademark name of Haynes International, Inc

** Viton® is a registered trademark of The Chemours Company

*** Kalrez® is a registered trademark of DuPont



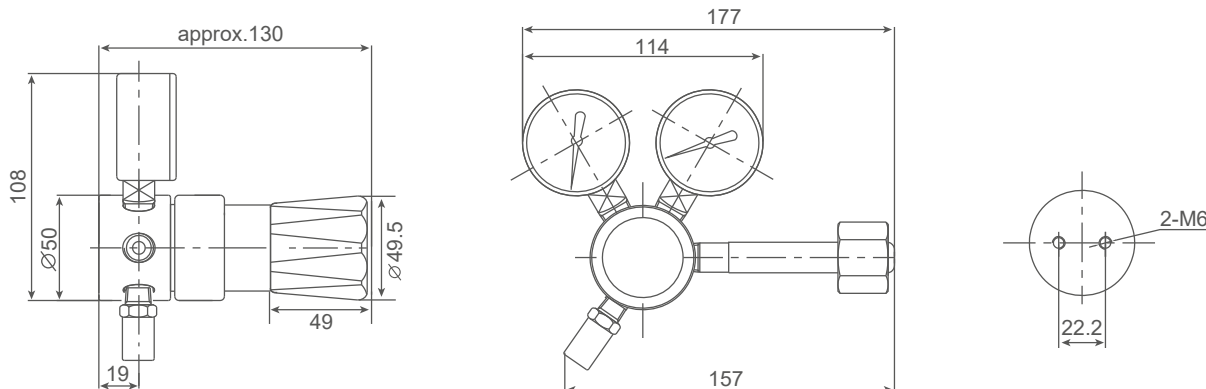
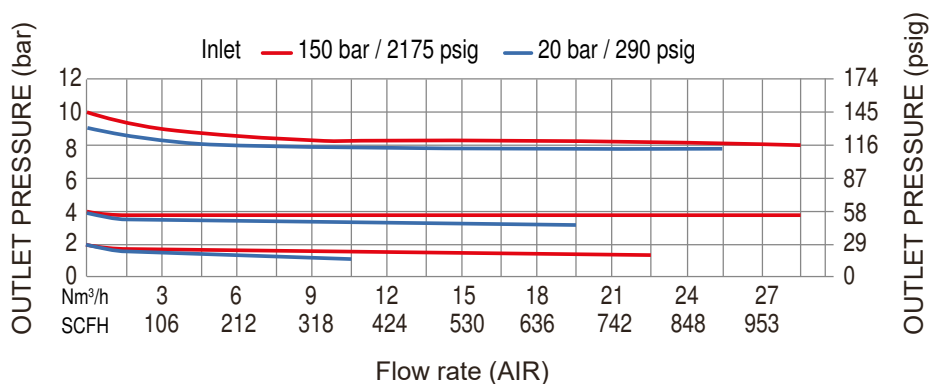
Model shown with additional accessories to be ordered separately

SPECIFICATIONS:

Inlet / outlet ports	1/4" FNPT
Weight	1,3 kg

FLOW CHART:

HPI 100



ORDERING INFORMATION:

MODEL	MATERIAL	INLET CONFIGURATION	OUTLET PRESSURE	INLET CONNECTION*	OUTLET CONFIGURATION	OPTIONS	GAS TYPE
HPI 100C	Chrome-plated brass	Right R	0 - 1,5 bar 0 - 21 psig	021 1/4" FNPT	000 1/4" FNPT	A He leak cert. (inboard) 2	Please specify
HPI 100S	Stainless steel	Left L	0 - 2 bar 0 - 29 psig	029 DIN 477	D... 1/4" FNPT diaphragm valve	B No gauges 3	
			0 - 4 bar 0 - 58 psig	058 CGA	C... 1/4" MNPT nipple	C With relief valve 4	
			0 - 10 bar 0 - 145 psig	145 AFNOR	NF... 1/4" tube fitting	D 60 bar inlet gauge 6	
			0 - 20 bar 0 - 290 psig	290 BS341	BS... 1/8" tube fitting	E Corrosive gas 7	
				UNI	U... 6 mm tube fitting	F Wall Bracket P	
				NEN 3268	N... 8 mm tube fitting	G High Pressure Contact Gauge HPCG	
				ISO 5145	I... 10 mm tube fitting	H Low Pressure Contact Gauge LPCG	
					G3/8" RH	I Diaphragm Valve with Lever DVL	
					G3/8" LH	J	
					G1/4" RH	K	

Other options upon request, please contact us

For example:

HPI 100C R 145 D 6 BF 2 Ar

* To indicate the requested inlet connection please see pages 83 - 85