



HPI 300

High purity and high flow single-stage barstock cylinder regulator

Model HPI 300 is a cylinder manifold regulator available in chrome-plated brass (HPI 300C) or stainless steel (HPI 300S) barstock for gases up to 300 bar (4350 psig) inlet pressure.

APPLICATIONS:

- Non-corrosive high flow gas applications
- Research sample systems gases
- Petrochemical industry
- Process analyzer gases
- Emission monitoring systems

FEATURES:

- Recommended gases purity levels up to grade 6.0 (99.9999) and delivery pressures up to 35 bar (508 psig)
- 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
- HPI 300C - chrome-plated body, bonnet and fittings
- HPI 300S - 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



Model shown with additional accessories to be ordered separately

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 = 0,86 (Cv = 1,0)
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

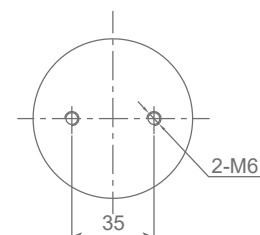
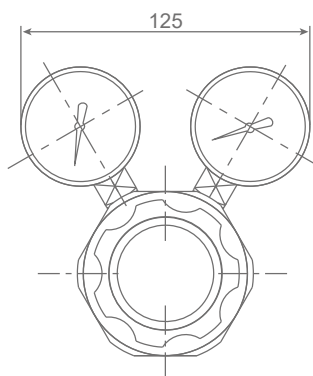
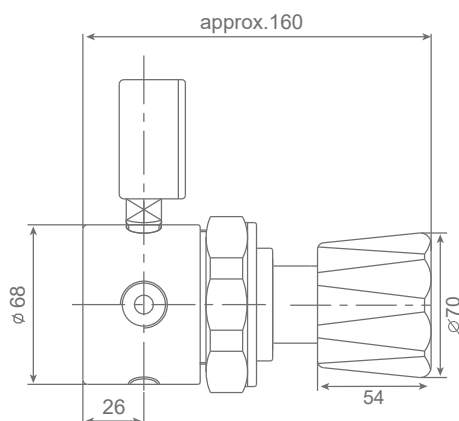
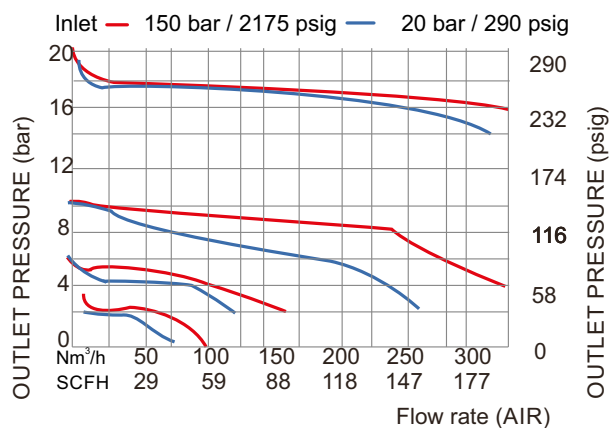
*** Kalrez® is a registered trademark of DuPont

SPECIFICATIONS:

Inlet port	1/4" FNPT
Outlet port	1/2" FNPT
Gauges/Relief valve port	1/4" FNPT
Weight	2,7 kg

FLOW CHART:

HPI 300



ORDERING INFORMATION:

MODEL	MATERIAL	INLET CONFIGURATION	OUTLET PRESSURE	INLET CONNECTION*	OUTLET CONFIGURATION	OPTIONS	GAS TYPE
HPI 300C	Chrome-plated brass	Right R	0 - 1,5 bar 0 - 21 psig	021 1/4" FNPT	000 1/2" FNPT A	He leak cert. (inboard) 2	Please specify
HPI 300S	Stainless steel	Left L	0 - 2 bar 0 - 29 psig	029 DIN 477	D...	No gauges 3	
			0 - 4 bar 0 - 58 psig	058 CGA	C...	With Relief Valve 4	
			0 - 10 bar 0 - 145 psig	145 AFNOR	NF...	Corrosive Gases 7	
			0 - 20 bar 0 - 290 psig	290 BS341	BS...	High Pressure Contact Gauge HPCG	
			0 - 35 bar 0 - 508 psig	508 UNI	U...	Low Pressure Contact Gauge LPCG	
				NEN 3268	N...	Wall Bracket P	
				ISO 5145	I...		

Other options upon request, please contact us

For example:

HPI 300C R 145 000 A 2 N₂

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