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 for pressure control of non-corrosive gases. 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 for non-corrosive gases purity levels up to grade 6.0 (99.9999)**
- 316L stainless steel diaphragm eliminates contamination from diffusion or outgassing
- 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
- The 1/8" NPT thread on the bonnet venting for safety in 316L SS version;
- Maximum inlet pressure 300 bar (4350 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 psi)
Outlet pressure	2/4/10/20 bar (29/58/145/290 psi)
Flow capacity	Cv = 0,07
Oxygen use	Suitable

▌ MATERIALS:

Body, bonnet	316L stainless steel barstock or chrome plated brass barstock
Diaphragm	Hastelloy®*C276
Nozzle	316L stainless steel
Seat	PEEK
Seals O-ring	Viton®** (FKM)
Filter	SS 316L
Adjusting Knob	ABS plastic

* Hastelloy® is a registered trademark name of Haynes International, Inc
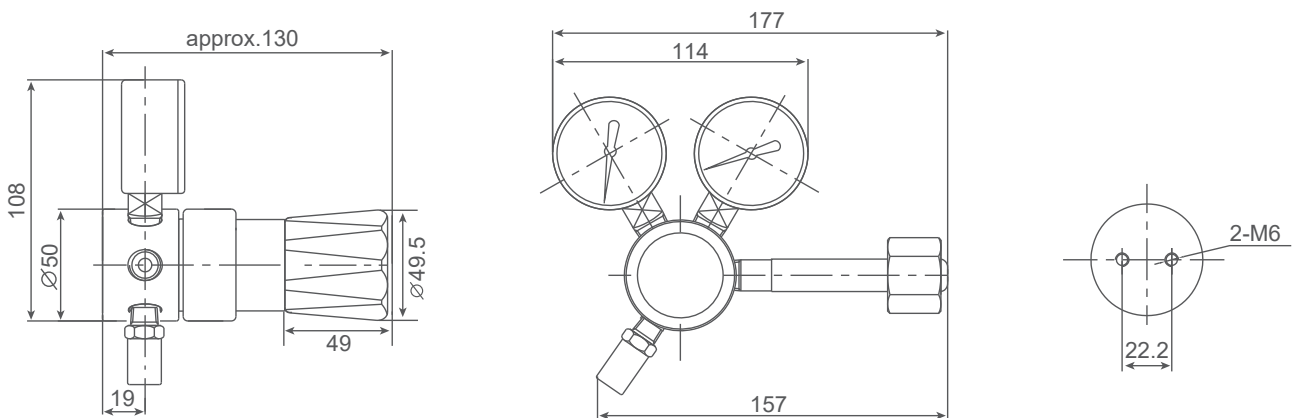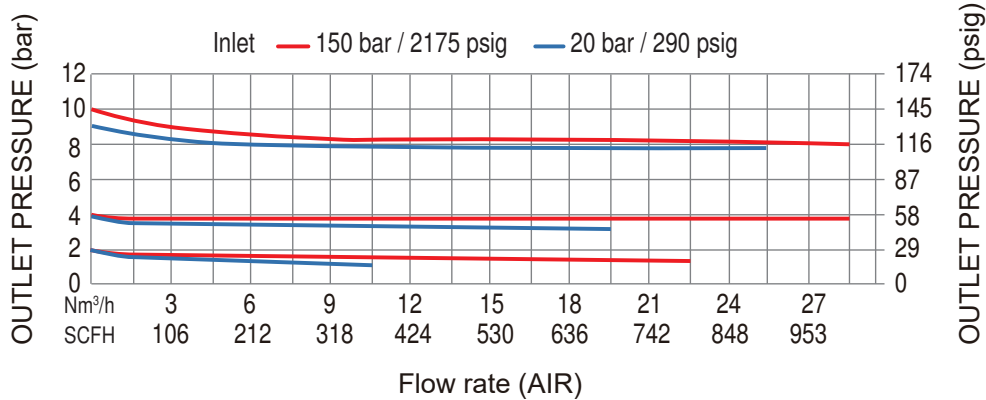*** Viton® is a registered trademark of The Chemours Company*

HARRIS
SPECIALTY GAS
Equipment

SPECIFICATIONS:

Inlet / outlet ports	1/4" FNPT
Weight	1,3 kg
Temperature range	-30°C to +74°C

FLOW CHART: HPI 100

Inlet — 150 bar / 2175 psig — 20 bar / 290 psig

OUTLET PRESSURE (bar) / OUTLET PRESSURE (psig)

| Nm³/h | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| SCFH | 106 | 212 | 318 | 424 | 530 | 636 | 742 | 848 | 953 |

Flow rate (AIR)

approx.130 · 108 · Ø50 · Ø49.5 · 49 · 19 · 177 · 114 · 157 · 2-M6 · 22.2

ORDERING INFORMATION:

MODEL	MATERIAL	INLET CONFIGURATION		OUTLET PRESSURE		INLET CONNECTION		OUTLET CONFIGURATION		OPTIONS		GAS TYPE
HPI 100C	Chrome plated brass	Right	R	0 - 2 bar 0 - 29 psig	029	1/4" FNPT	000	1/4" FNPT	A	He leak cert. (inboard)	2	Please specify
HPI 100S	Stainless steel	Left	L	0 - 4 bar 0 - 58 psig	058	DIN 477		1/4" FNPT diaph. valve	B	No gauges	3	
				0 - 10 bar 0 - 145 psig	145	CGA		1/4" MNPT nipple	C	With relief valve	4	
				0 - 20 bar 0 - 290 psig	290	AFNOR		1/4" tube fitting	D	He leak cert. (outboard)	5	
						BS341		1/8" tube fitting	E	60 bar inlet gauge	6	
						UNI		6 mm tube fitting	F			
						NBN		8 mm tube fitting	G			
						NEN 3268						

For example:

| HPI 100C | | R | | 145 | DIN 6 | | BF | | 2 | Ar |