

## HPI 120

### High purity - two-stage barstock regulator

Model HPI 120 is a two-stage cylinder regulator available in chrome plated brass (HPI 120C) or stainless steel (HPI 120S) barstock for pressure control of non-corrosive gases. Designed for constant delivery pressure from full to near empty cylinder conditions.

#### APPLICATIONS:

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

#### 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 120C - chrome plated body, bonnet and fittings
- HPI 120S - 316L stainless steel body, bonnet and fittings
- $1 \times 10^{-9}$  mbar l/s He inboard helium leak rate to maintain gas purity levels
- 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

#### TECHNICAL DATA:

Type	Two-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



Model shown with additional accessories to be ordered separately

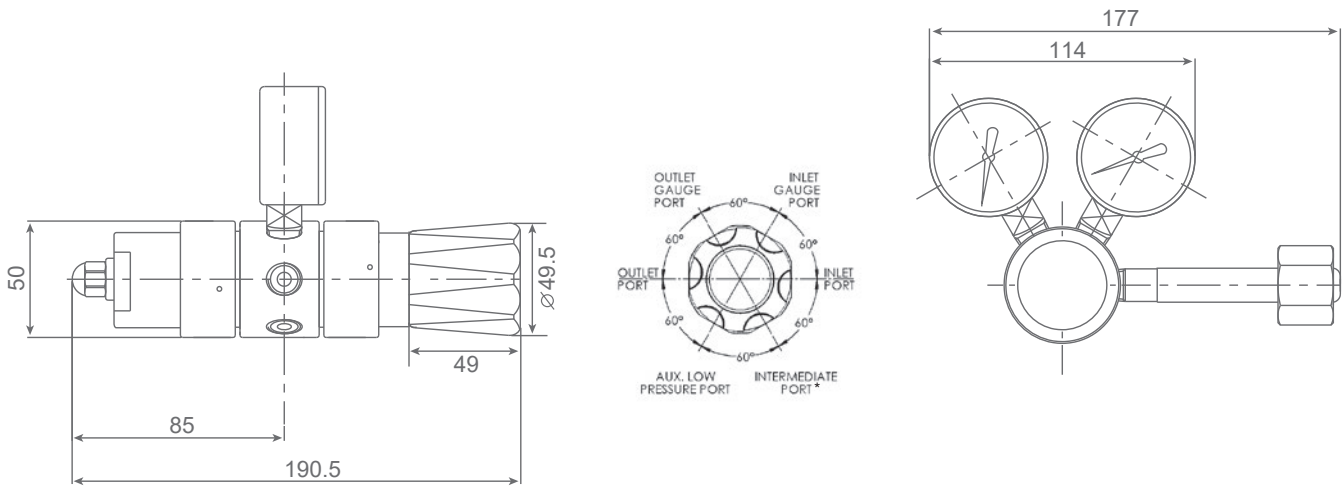
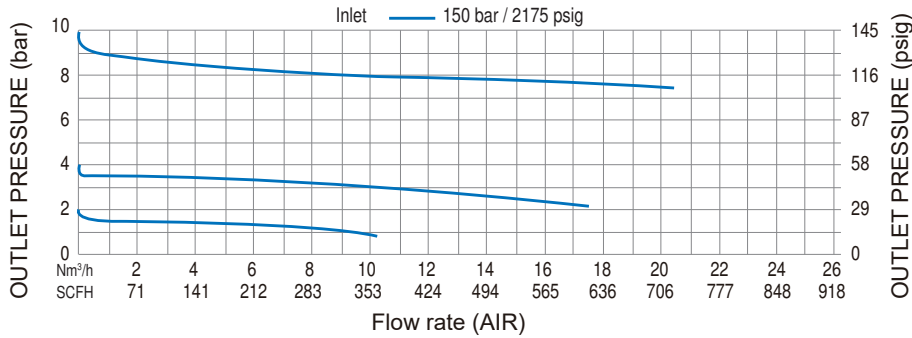
\* Hastelloy® is a registered trademark name of Haynes International, Inc  
\*\* Viton® is a registered trademark of The Chemours Company

## SPECIFICATIONS:

Inlet / outlet ports	1/4" FNPT
Weight	2,1 kg
Temperature range	-30°C to +74°C

## FLOW CHART:

### HPI 120



## ORDERING INFORMATION:

MODEL	MATERIAL	INLET CONFIGURATION	OUTLET PRESSURE	INLET CONNECTION	OUTLET CONFIGURATION	OPTIONS	GAS TYPE
HPI 120C	Chrome plated brass	Right (only)	R 0 - 2 bar 0 - 29 psig	029 1/4" FNPT 000	1/4" FNPT	A With relief valve (intermediate port)	1 Please specify
HPI 120S	Stainless steel		0 - 4 bar 0 - 58 psig	058 DIN 477	1/4" FNPT diaph. valve	B He leak cert. (inboard)	2
			0 - 10 bar 0 - 145 psig	145 CGA	1/4" MNPT nipple	C No gauges	3
			0 - 20 bar 0 - 290 psig	290 AFNOR	1/4" tube fitting	D With relief valve (at low pressure side)	4
				BS341	1/8" tube fitting	E He leak cert. (outboard)	5
				UNI	6 mm tube fitting	F	
	NBN	8 mm tube fitting	G				
	NEN 3268						

For example:

HPI 120C R 058 DIN 6 000 BE 2 Ar

\* Between 1 and 2 stage