

SERIES HPI 722/742

HIGH PURITY TWO-STAGE BARSTOCK REGULATOR



Model shown (HPI-742-R-029-000-A-4)
with additional accessories to be ordered separately

KEY FEATURES

Model HPI 742 is a regulator for cylinders where a constant delivery pressure from full to near empty is a required condition.

- Recommended for purity levels of grade 6.0 [99.9999] and higher
- Stainless steel version HPI 742 applicable for corrosive gases after prior confirmation of the material's compatibility*
- Standard 316L stainless steel diaphragm eliminates contamination from diffusion or outgassing
- One-piece encapsulated seat design includes a sintered filter to protect the seat from particulate contamination
- Hastelloy®** C276 diaphragm
- Brass chrome-plated bonnet barstock or 316L stainless steel as optional
- 316L stainless steel body for HPI 742, brass nickel-plated body for HPI 722
- 1×10^{-9} mbar l/s He inboard helium leak rate to maintain gas purity levels
- 1/8" NPT thread on the bonnet venting for safety
- Maximum inlet pressure 300 bar (4350 psig), except for Acetylene: max. 25 bar (362 psig)

Applications »

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



* Please check the material's compatibility in our Specialty Gas catalog.
** Hastelloy® is a registered trademark name of Haynes International, Inc

TECHNICAL DATA

Type	Two-stage cylinder regulator
Purity	6.0 and higher
Inlet pressure	Max. 300 bar (4350 psig) For Acetylene: max. 25 bar (362 psig)
Outlet pressure	1/2/4/10/20/34 bar (15/29/58/145/290/500 psig) For Acetylene: max. 1,5 bar (21 psig)
Flow capacity	Cv = 0,06
Gauges	49 mm dual scale (bar/psig) 316L stainless steel (HPI742) or chrome-plated brass (HPI 722)
Oxygen use	Suitable
Inlet/Outlet ports	6x 1/4" FNPT
Weight	2,01 kg



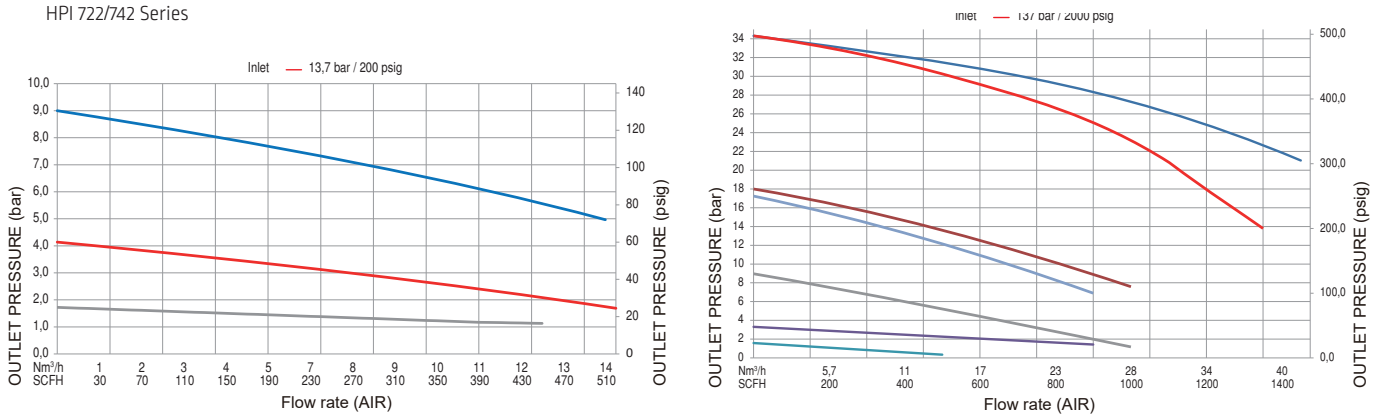
MATERIALS

Body	316L stainless steel barstock (HPI 742) or nickel-plated brass barstock (HPI 722)
Bonnet	Chrome-plated brass barstock or 316L stainless steel as optional
Diaphragm (regulator)	Hastelloy [®] ** C276
Nozzle	316L stainless steel (HPI 742) or brass (HPI 722)
Seat	PTFE Teflon [®] ***
Seals	PTFE Teflon [®] ***
Filter	Sintered stainless steel - 10 micron (HPI 742) or nickel-plated sintered bronze - 10 micron (HPI 722)
Adjusting Knob	ABS plastic

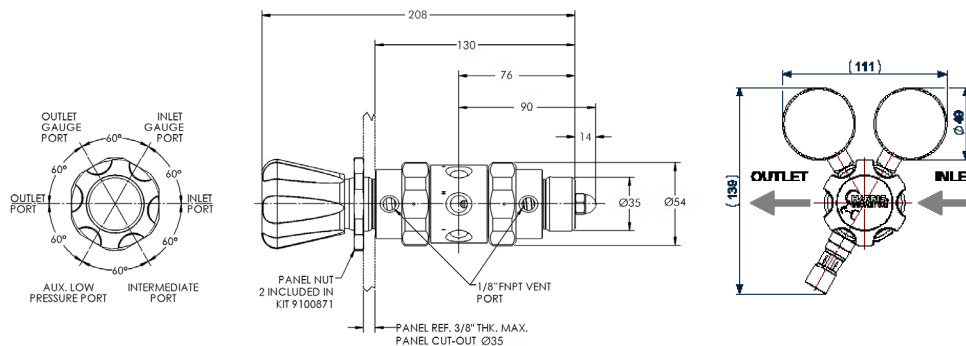
** Hastelloy[®] is a registered trademark name of Haynes International, Inc
*** Teflon[®] is a registered trademark of The Chemours Company

FLOW CHARTS

HPI 722/742 Series



TECHNICAL DRAWING



PRODUCT CONFIGURATION

MODEL	MATERIAL	INLET CONFIGURATION	OUTLET PRESSURE	INLET CONNECTION	OUTLET CONFIGURATION	OPTIONS	GAS TYPE
HP 722	Nickel-plated brass	Right (only) R	0 - 1 bar 0 - 15 psig	015 1/4" FNPT	000 1/4" FNPT	A He leak cert. (inboard)	2 Please specify
HP 742	Stainless steel		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 (at low pressure side)	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 Diaphragm Valve with lever	DVL
Other options upon request, please contact us			0 - 34 bar 0 - 500 psig	500 UNI	U... 6 mm tube fitting	F Hastelloy [®] diaphragm	HA
				NEN 3268	N... 8 mm tube fitting	G Stainless steel bonnet	SB
				ISO 5145	I... 10 mm tube fitting	H Panel Nut	PN

For example:

HPI 722 R 058 000 BE 2 Ar