SERIES HPI 722/742

HIGH PURITY TWO-STAGE BARSTOCK REGULATOR





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*
- · Hastelloy®** C276 diaphragm eliminates contamination from diffusion or outgassing
- One-piece encapsulated seat design includes a sintered filter to protect the seat from particulate contamination
- · 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
- 1x10⁻⁹ mbar I/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)
- · Safety relief valve as standard

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

Туре	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 chome-plated brass (HPI 722)
Oxygen use	Suitable
Inlet/Outlet ports	6x 1/4" FNPT
Weight	2,01 kg
Safety relief valve	Included

MATERIALS

Body	316L stainless steel barstock (HPI 742) or nickel-plated brass barstock (HPI 722)
Bonnet	Nickel-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
Safety relief valves	316L SS (HPI 742) or brass nickel plated (HPI 722)

PRODUCT CONFIGURATION

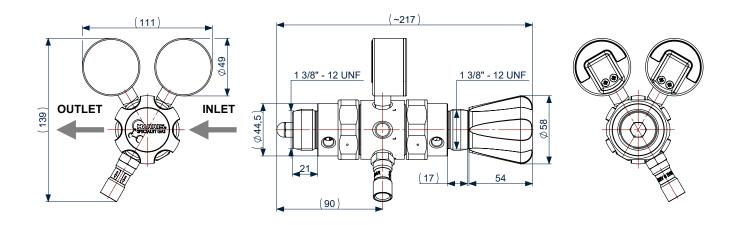
MODEL	MATERIAL	INLET CONFIGURA	TION	OUTLET PRESSURE		INLET CONNECTI	ON	OUTLET CONFIGURATION		OPTIONS		GAS TYPE
HP 722	Nickel-plated brass	Right (only)	R	0 - 1 bar 0 - 15 psig	015	1/4" FNPT	000	1/4" FNPT	Α	He leak cert. (inboard)	2	Please specify
HP 742	Stainless steel			0 - 2 bar 0 - 29 psig	029	DIN 477	D	1/4" FNPT diaphragm valve	В	No gauges	3	
				0 - 4 bar 0 - 58 psig	058	CGA	C	1/4" MNPT nipple	С	With relief valve (at low pressure side) - standard	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	Ε	Diaphragm Valve with lever	DVL	
Other op	otions upon requi us	est, please		0 - 34 bar 0 - 500 psig	500	UNI	U	6 mm tube fitting	F	Hastelloy [®] diaphragm	НА	
						NEN 3268	N	8 mm tube fitting	G	Stainless steel bonnet	SB	
						ISO 5145	l	10 mm tube fitting	Н	Panel Nut	PN	
For exan	nple:											
HPI 722			R		058	000			BE		4	Ar



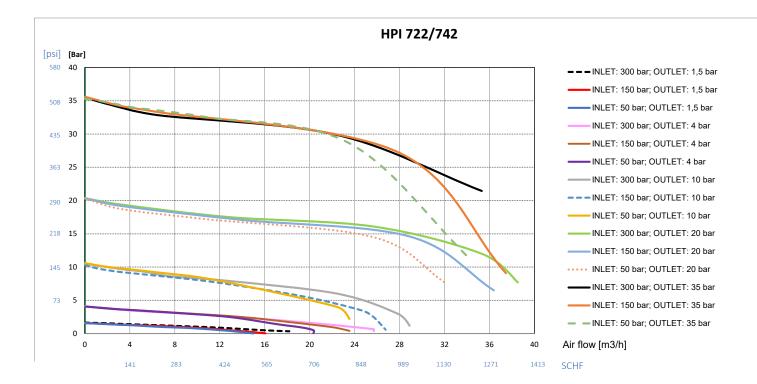


^{**} Hastelloy® is a registered trademark name of Haynes International, Inc *** Teflon® is a registered trademark of The Chemours Company

TECHNICAL DRAWING



FLOW CHARTS







NOTES

CUSTOMER ASSISTANCE POLICY

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