SERIES HPI 722/742

HIGH PURITY TWO-STAGE BARSTOCK REGULATOR

Model shown (HPI-742-R-029-000-A)
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*
- 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 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)
- 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

3 YEAR WARRANTY FOR REGULATORS WITH NON-CORROSIVE GASES

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

Publication HPI722_TDS_1224_EN | Issue Date 12/24

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

MATERIALS

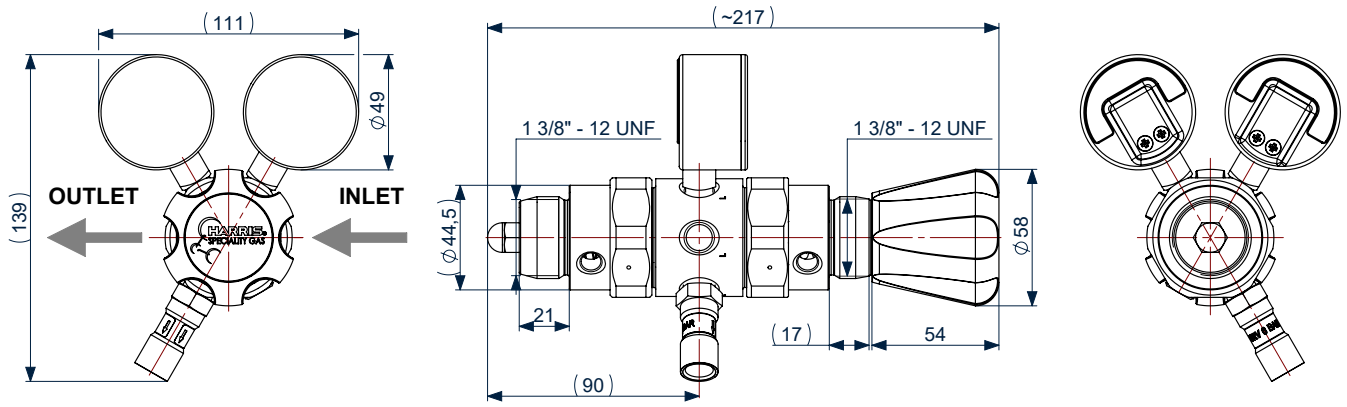
Body	316L stainless steel barstock (HPI 742) or nickel-plated brass barstock (HPI 722)
Bonnet	Nickel-plated brass barstock or 316L stainless steel as optional
Diaphragm (regulator)	Hastelloy®** C276
Nozzle	316L stainless steel (HPI 742) or brass (HPI 722)
Seat	PTFE Teflon®***
Seals	PTFE Teflon®***
Filter	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)

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

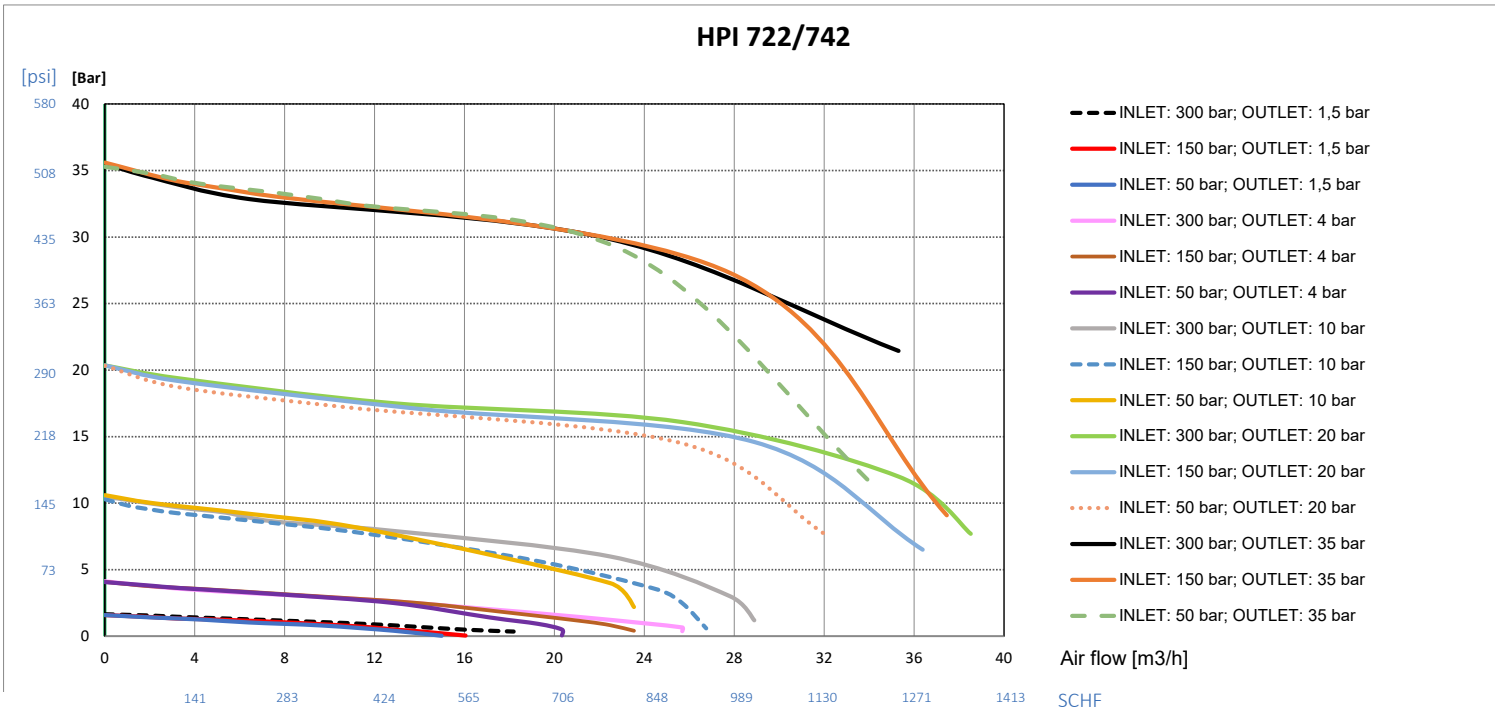
PRODUCT CONFIGURATION

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) - 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	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		4	Ar

TECHNICAL DRAWING



FLOW CHARTS



NOTES

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