SERIES HPI 723/743

HIGH PURITY SINGLE-STAGE LINE REGULATOR





KEY FEATURES

Model HP 743 is a stainless steel pipeline regulator for pipeline and other applications up to 300 bar [4360 psig] inlet pressure.

- · Recommended gases purity levels up to grade 6.0 (99.9999)
- Stainless steel version applicable also for corrosive gases after prior confirmation of the material's compatibility
- Hastelloy® C276 diaphragm eliminates contamination from diffusion or outgassing
- · Low wetted surface area
- · HP 723 nickel-plated brass body, bonnet and fittings
- HP 743 316L stainless steel body, nickel-plated brass bonnet and fittings (stainless steel bonnet is available upon request)
- 1x10⁻⁹ mbar I/s He inboard helium leak rate to maintain gas purity levels
- · 4 ports flexible configuration
- 1/8" NPT thread on the bonnet venting for safety in 316L SS version
- · Maximum inlet pressure 300 bar (4360 psig), except for Acetylene: max. 25 bar (362 psig)
- · Cleaned for oxygen service
- · Safety relief valve as optional

Applications »

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





^{*} Please check the material's compatibility in our Specialty Gas catalog.

TECHNICAL DATA

Туре	Single-stage	RELATED OPTIONS:
Purity	Up to 6.0	Wall mounting bracket: HPI-L-BPB
Inlet pressure	Max. 300 bar (4360 psig) For Acetylene: max. 25 bar (362 psig)	
Outlet pressure	1,5/2/4/10/20/35 bar (21/29/58/145/290 psig/500 psig) For Acetylene: max 1,5 bar (21 psig)	
Flow capacity	Kv = 0,1548 (Cv = 0,18)	HARRIS
Gauges	49mm dual scale (bar/psig)	
Oxygen use	Suitable	
Inlet/Outlet ports	4 x 1/4" FNPT	
Weight	2,01 kg	

MATERIALS

Body, bonnet	316L stainless steel barstock or nickel-plated brass barstock
Diaphragm (regulator)	Hastelloy®*C276
Nozzle	316L stainless steel (HPI 743) Brass (HPI 723)
Seat	PCTFE
Seals	PTFE (Teflon**) for corrosive gases
Filter	SS 316L Micro Sintered
Adjusting Knob	ABS plastic

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

The Chemours Company

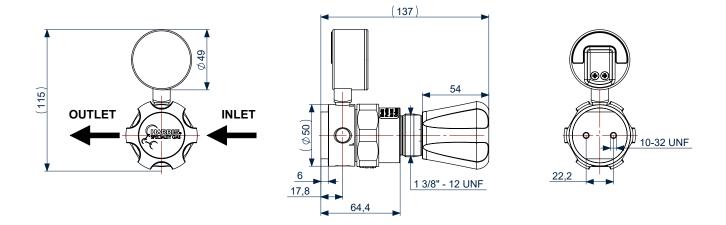
PRODUCT CONFIGURATION

MODEL	MATERIAL	INLET CONFIGURAT	OUTLET ON PRESSURE		INLET CONNECTION		OUTLET CONFIGURATION		OPTIONS		GAS TYPE
HP 723	Nickel-plated brass	Right f	0 - 1 bar 0 - 15 psig	015	1/4" FNPT	000	1/4" FNPT	Α	He leak cert. (inboard)	2	Please specify
HP 743	Stainless steel		0 - 1,5 bar 0 - 21 psig	021	1/4" MNPT	001	1/4" FNPT diaphragm valve	В	No gauges	3	
			0 - 2 bar 0 - 29 psig	029	1/4" tube fitting	002	1/4" MNPT nipple	С	With relief valve	4	
			0 - 4 bar 0 - 58 psig	058	6 mm tube fitting	003	1/4" tube fitting	D	Corrosive Gases	7	
			0 - 10 bar 0 - 145 psig	145	8 mm tube fitting	004	1/8" tube fitting	Ε	High Pressure Contact Gauge	HPCG	
			0 - 20 bar 0 - 290 psig	290			6 mm tube fitting	F	Low Pressure Contact Gauge	LPCG	
			0 - 35 bar 0 - 500 psig	500			8 mm tube fitting	G	Diaphragm Valve with Lever	DVL	
Other options upon request, please contact us					10 mm tube fitting	Н	Stainless Steel Bonnet	SSB			
							G3/8" RH	1			
							G3/8" LH	J			
							G1/4" RH	Κ			
For exam	iple:										
HP 723		f	2	058		000		BE		2	Ar



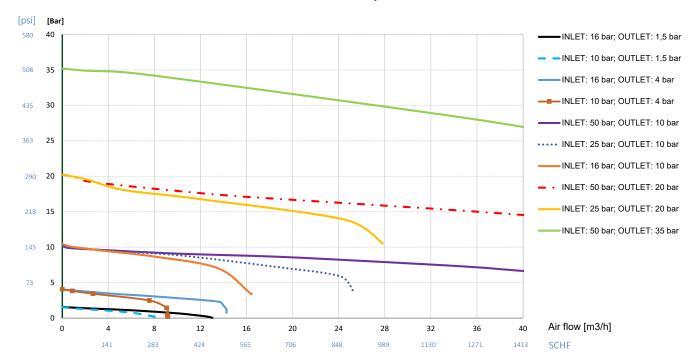


TECHNICAL DRAWING



FLOW CHARTS

HPI 723/743







NOTES

CUSTOMER ASSISTANCE POLICY

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