

## HP 743

### High purity – stainless steel barstock regulator

Model HP 743 is a stainless steel pipeline regulator for pipeline and other applications up to 210 bar (3000 psig) inlet pressure.

#### APPLICATIONS:

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

#### FEATURES:

- Recommended for corrosive gases or purity levels of grade 6.0 (99.9999) and higher
- 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
- Chrome plated bonnet, 316L SS body 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
- Maximum inlet pressure 210 bar (3000 psig)

#### TECHNICAL DATA:

Type	Single stage
Purity	6.0 and higher
Inlet pressure	Max. 210 bar (3000 psig)
Outlet pressure	0-1/3,5/8,5/17/35 bar (15/50/125/250/500 psig)
Flow capacity	Cv = 0,08
Oxygen use	Suitable

#### MATERIALS:

Body	316L stainless steel barstock
Bonnet	Chrome plated brass barstock
Diaphragm	316L stainless steel
Nozzle	316L stainless steel
Seat	PTFE Teflon*
Seals	PTFE Teflon*
Filter	Sintered stainless steel - 10 micron
Seat	Return spring 316L stainless steel
Adjusting Knob	ABS plastic

#### SPECIFICATIONS:

Inlet / outlet ports	1/4" FNPT
Weight	1,22 kg

\* Teflon® is a registered trademark of The Chemours Company



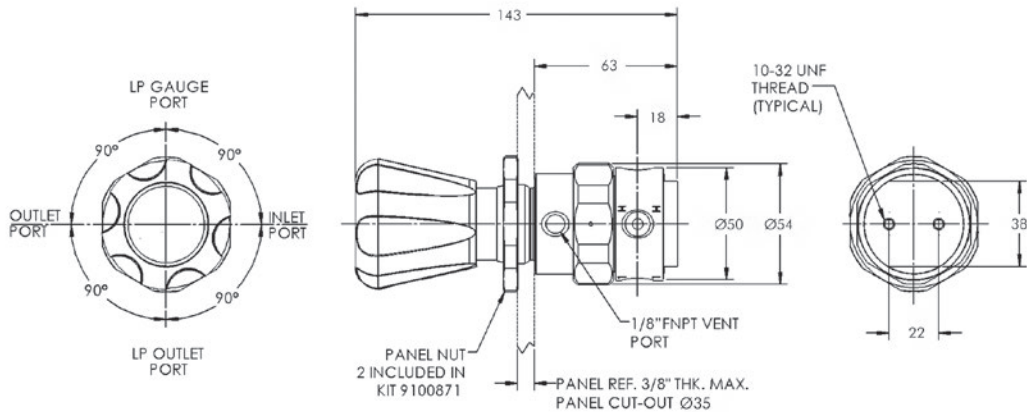
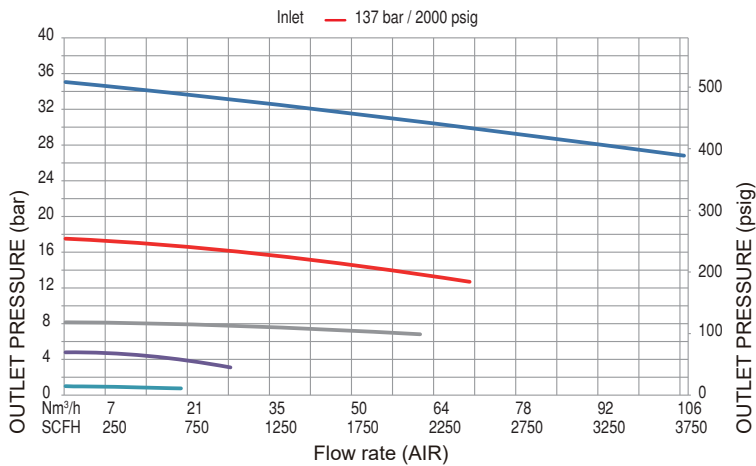
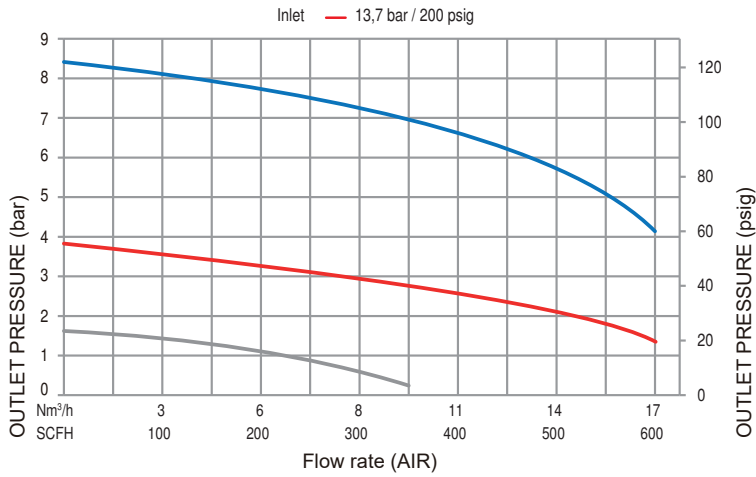
Model shown with additional accessories to be ordered separately

#### RELATED OPTIONS:

Front Panel Mount Kit P/N: 9100871  
Wall mounting Bracket P/N: 9101242



## FLOW CHART: HPI 743



## ORDERING INFORMATION:

MODEL	OUTLET PRESSURE	INLET CONNECTION	OUTLET CONFIGURATION	OPTIONS	GAS TYPE	
HP 743	0 - 1 bar	1/4" FNPT	1/4" FNPT	Without relief valve	Please specify	
	0 - 15 psig	1/4" MNPT	1/4" FNPT diaph. valve	He leak cert. (inboard)		
	0 - 3,5 bar	1/4" tube fitting	1/4" MNPT nipple	No gauges		
	0 - 50 psig	6 mm tube fitting	1/4" tube fitting	With relief valve		
	0 - 8,5 bar	8 mm tube fitting	1/8" tube fitting	He leak cert. (outboard)		
	0 - 125 psig		6 mm tube fitting	60 bar inlet gauge		
	0 - 17 bar		8 mm tube fitting			
	0 - 250 psig					
	0 - 34 bar					
	0 - 500 psig					

For example:  
 HP 743                      050                      003                      E                      1                      Ar