



HALE HAMILTON

Data Sheet

I.S.O. 9001 - *quality throughout*

SERIES 24 HIGH PURITY

HP1550 - PRESSURE REGULATOR

*LOW OUTLET PRESSURE CONTROL OF CORROSIVE AND NON-CORROSIVE GASES
IN LOW FLOW SYSTEMS*

FEATURES:

- Compact size.
- Accurate control.
- High surface finishes.
- Low internal volumes.
- Corrosion resistant.

SPECIFICATIONS:

- Maximum inlet pressure: 376 barg (5450 psig)
- Adjustable outlet pressure ranges:
0-2, 0-5, 0-7, 0-10 and 0-20 barg.
- Fluid Media : Corrosive and non-corrosive gases.
- Flow capacity: Maximum 600 L/min of air.
- Operating temperature range : -40 °C to +100 °C.
- Outlet pressure rise per 100 psi inlet pressure decay:
0.8 psi maximum.
- Body ports: 1/4" NPT (F)
- Flow coefficient Cv = 0.09.

MATERIALS OF CONSTRUCTION:

- BODY - Bar stock 316 stainless steel or bar stock Brass.
- SEAT AND SEAL - 316 stainless steel and Kel-F®. (Hastelloy C22 and Monel 400 also available).
- DIAPHRAGM - 316 stainless steel (Teflon® coated option) or Hastelloy C22.
- BONNET - Bar stock 316 stainless steel.

APPLICATIONS:

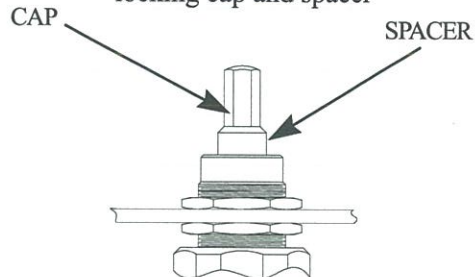
- Instrumental control.
- Chromatography (sample & carrier gas).
- Sampling systems.
- Purge systems.
- R & D Laboratories.
- Oil and gas installation.

OPTIONAL FEATURES:

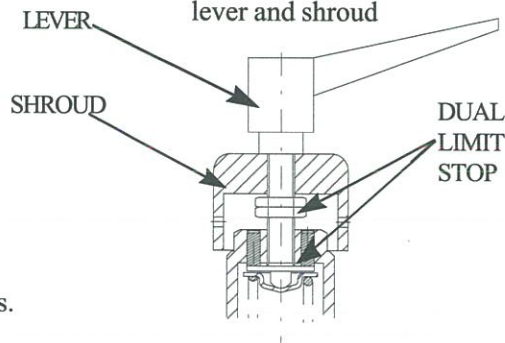
- Panel mounting.
- Cylinder matched connections (BS341, DIN or CGA).
- Matched relief valve.
- Pressure gauges.
- Locked outlet.
- Tied diaphragm
- Lever, dual limit stop for auto-changeover applications.
- Alternative materials available.



**Preset and locked
discharge pressure**
Control knob replaced by
locking cap and spacer

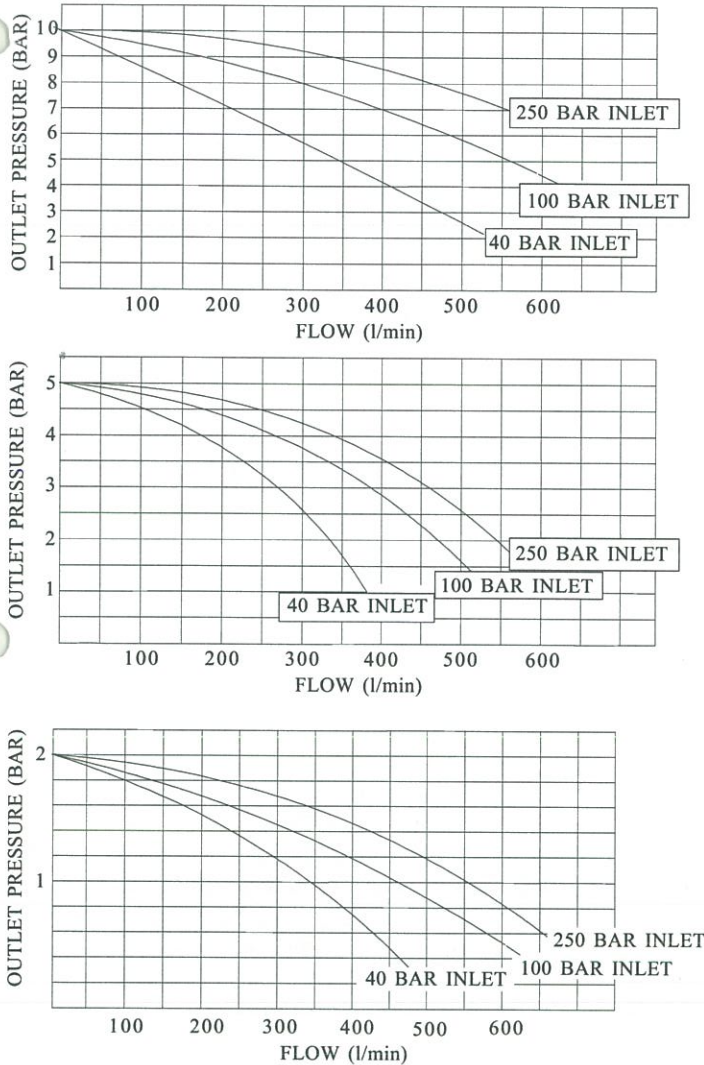


**Dual Limit Stop
Lever Operated**
Control knob replaced by
lever and shroud



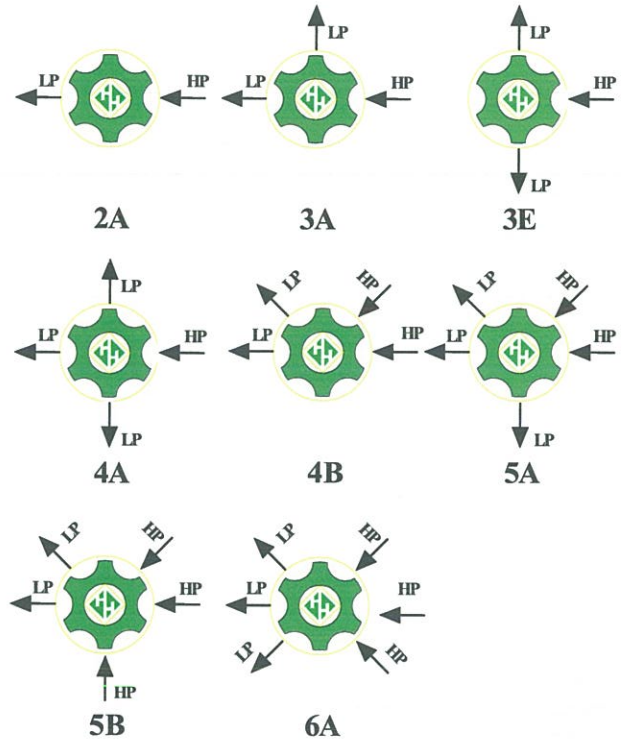
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DISCHARGE CHARACTERISTICS:



PORTING CODES:

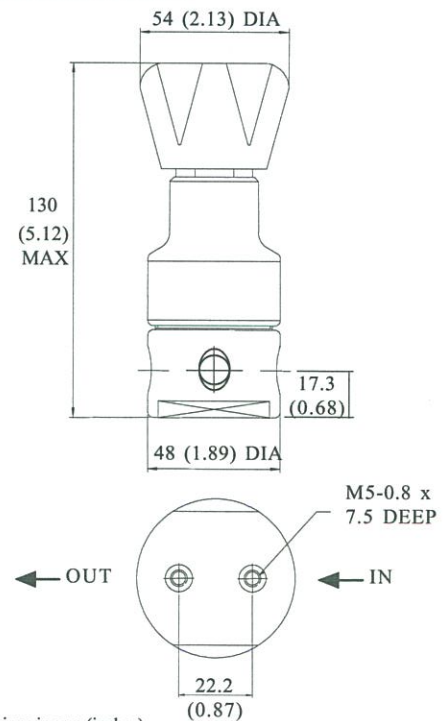
(Alternative Port configurations are available)



ORDERING INFORMATION:

- HP1550 S N 1 2A X X 1 1
- Basic Series
 - Materials
 - S = Stainless Steel
 - B = Brass body & Stainless Steel internals
 - H = Stainless Steel - Hastelloy trim
 - Diaphragm Assembly
 - N = Non-tied diaphragm
 - T = Tied diaphragm
 - Outlet Pressure Range
 - 1 - 0-30 psig (0-2 barg)
 - 2 - 0-70 psig (0-5 barg)
 - 3 - 0-100 psig (0-7 barg)
 - 4 - 0-145 psig (0-10 barg)
 - 5 - 0-290 psig (0-20 barg)
 - Porting Code
 - See Configuration Drawings
 - Inlet Gauge
 - X - No Gauge
 - A - 0-600 psig
 - B - 0-1000 psig
 - C - 0-2000 psig
 - D - 0-3000 psig
 - E - 0-6000 psig
 - F - 0-10000 psig
 - Pressure Adjustment
 - 1 - Plastic Control Knob
 - 2 - Preset and Locked
 - 3 - Plastic Lever
 - Bonnet Option
 - 1 - Non-vented, non panel mount
 - 2 - Fixed vent, non panel mount
 - 3 - Adjustable vent, non panel mount
 - 4 - Non-vented, panel mount
 - 5 - Fixed vent, panel mount
 - 6 - Adjustable vent, panel mount
 - 7 - Non-vented, dual limit stop, non panel mount
 - Outlet Gauge
 - X - No Gauge
 - A - 0-30 psig
 - B - 30 in Hg 0-30 psig
 - C - 0-60 psig
 - D - 30 in Hg 0-60 psig
 - E - 0-100 psig
 - F - 30 in Hg 0-100psig
 - G - 0-200 psig
 - H - 0-300 psig
 - J - 0-400 psig

INSTALLATION:



Dimensions in mm (inches)
All dimensions are reference
and nominal

TEFLON Trademark of Du-Pont
KEL-F Trademark of 3M

Data subject to change
without prior notification



Quality Assurance Standards: BS EN ISO 9001 - Registration No. 861113