

Series KT 9 SINGLE STAGE HIGH PRESSURE REGULATOR HIGH RELIABILITY UNDER PRESSURE

- ◆ 6,000 psig inlet (414 bar) inlet to 2,500 psig (172 bar) outlet
- Stainless steel
- Self relieving and non-relieving*
- Piston sensing element
- High flow (HF) option
- Field repairable
- Welded face seal connection option**
- Knob LOTO option (refer to AP KL data sheet)
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section
 - *Self relieving model vents pressure above set point to atmosphere automatically for ease of pressure adjustment and safety. Non-relieving model does not vent.
 - *This series is not assembled in a Class 100 cleanroom nor is it helium leak tested, though it is welded construction.
- ***HF option requires VS seat.
 - ‡A pressure regulator Cv is a nominal value which indicates the point of choked flow. Please refer to a flow curve or a recommendation guide for usable flow range.

MATERIALS OF CONSTRUCTION

MATERIAL OPTION KT9S Body SS, 316L Inlet screen, filter, washer SS 316 Poppet, spring, nozzle, piston, cylinder SS 316

PCTFE (Polyimide required for HF and optional for standard) Seat, main valve

Seat, vent valve **PCTFE**

FKM/FPM Fluoroelastomer O-rings

Back up ring

All specifications subject to change without notice.



ENGINEERING DATA Operating Parameters

Source pressure

KT9 6,000 psig (414 bar) KT 9 W 4,500 psig (310 bar)

10 to 200 psig (0.7 to 13.8 bar) Delivery pressure

25 to 500 psig (1.7 to 34.4 bar) 100 to 2,500 psig (7 to 172 bar) 150% of operating pressures 300% of operating pressures

Design proof pressure Design burst pressure

Other Parameters Inlet /outlet ports Flow coefficient Cv[‡]

Operating temperature

Leak rate

Supply pressure effect

Self relieving*

1/4" NPT and 1/4" face seal 0.09 (opt HF 0.15)*** 0° to $+140^{\circ}$ F (-18° to $+60^{\circ}$ C)

Bubble tight

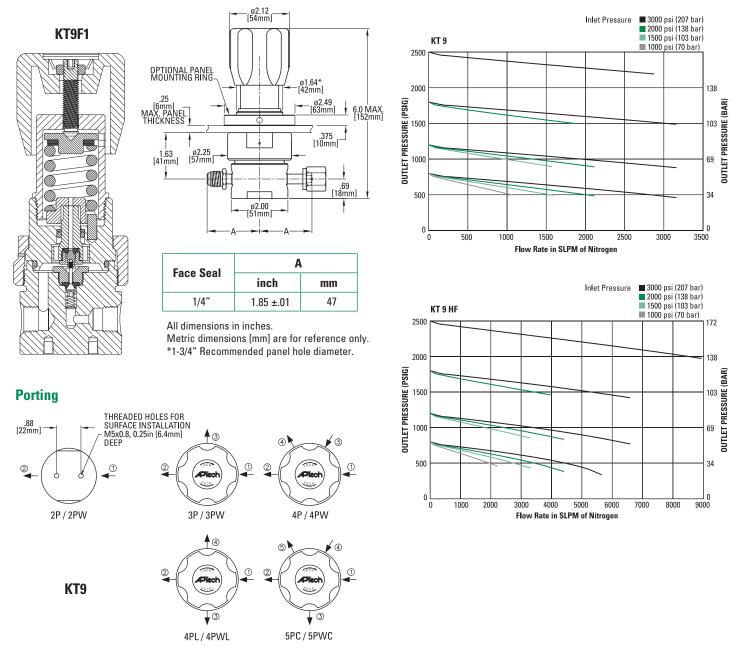
Refer to Installation and

Operating Instructions Standard, non-relieving optional

(must be specified)

Shipping weight (approx.) 4 lb

SERIES KT 9 — QUALITY, RELIABILITY & PERFORMANCE!



CAUTION: Product selection is the sole responsibility of the user, regardless of any recommendations or suggestions made by the factory. The user shall make selections based upon their own analysis and testing with regard to function, material compatibility and product ratings. Proper installation, operation and maintenance are also required to assure safe, trouble free performance.

ORDERING INFORMATION								
KT 9	F	1	S	3P	W	FV4 FV4	50 20	HF
Series	Pressure	Relieving	Material	Ports	Optional	Connection	Gauge	Options
	Range	Non-Relieving				(Inlet/Outlet)	Source Delivery	
KT 9F = 25- KT 9L = 100 1 = Sel 0 = Nor	00 psig (0.35 to 14 bar) 500 psig (1.7 to 34 bar) -2,500 psig (7 to 172 bar) f relieving (venting) n-relieving (non-venting) inless Steel 316L			2P = 2 ports 3P = 3 ports 4P = 4 ports 4PL = 4 ports 5PC = 5 ports		MV4**= 1/4 inch face seal male FV4**= 1/4 inch face seal female *NPT port only listed once. **MV4 and FV4 only	2 = 200 psig/bar 4 = 400 psig/bar 6 = 600 psig/bar 10 = 1,000 psig/bar 40 = 4,000 psig/bar	***HF option requires VS seat. HF option not recommended for H ₂ service. ch female NPT or