

## 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



## **ENGINEERING DATA Operating Parameters**

Source pressure

6,000 psig (414 bar) KT9 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 burst pressure **Other Parameters** 

Design proof pressure

Inlet /outlet ports Flow coefficient Cv Operating temperature

Leak rate

Self relieving\*

Supply pressure effect

1/4" NPT and 1/4" face seal 0.09 (opt HF 0.15)\*\*\*  $0^{\circ}$  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

## **M**ATERIALS 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

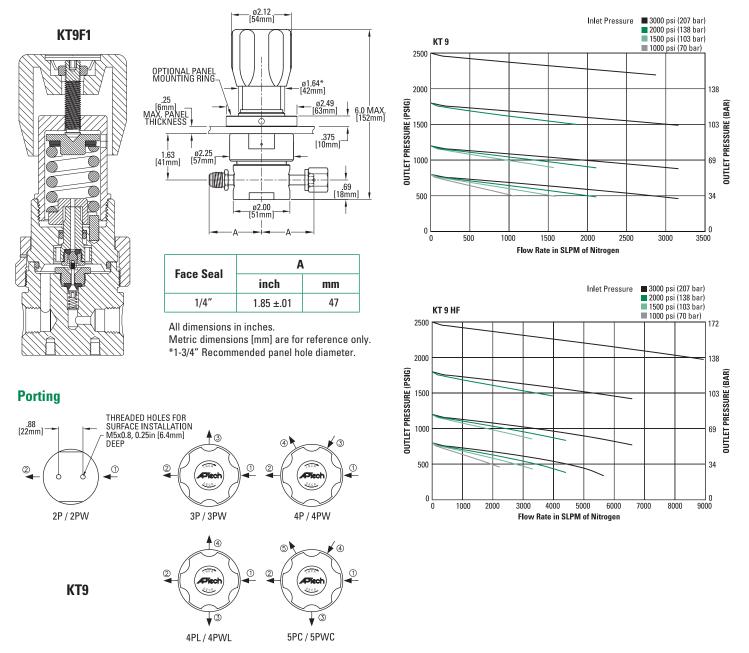
All specifications subject to change without notice.

<sup>\*</sup>Self relieving model vents pressure above set point to atmosphere automatically for ease of pressure adjustment and safety. Non-relieving model does not vent.

<sup>\*\*</sup>This series is not assembled in a Class 100 cleanroom nor is it helium leak tested, though it is welded construction.

<sup>\*\*\*</sup>HF option requires VS seat.

## 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.

| KT 9 F  | 1                          | R D E R  | ING I<br>3P  | N F O R I | MATION<br>FV4 FV4   | 50 20   | HF   |
|---|----------------------------|----------|--|-----------|---|---|--|
| Series Pressure   | Relieving<br>Non-Relieving | Material | Ports  | Optional  | Connection  | Gauge<br>Source Delivery  | <b>Options</b>   |
| KT 9D = 5-200 psig (0.35 to 14 bar) KT 9F = 25-500 psig (1.7 to 34 bar) KT 9L = 100-2,500 psig (7 to 172 bar)  1 = Self relieving (venting) 0 = Non-relieving (non-venting)  S = Stainless Steel 316L |                            |          | 2P = 2 ports<br>3P = 3 ports<br>4P = 4 ports<br>4PL = 4 ports<br>5PC = 5 ports |           | 4*= 1/4 inch NPT MV4**= 1/4 inch face seal male FV4**= 1/4 inch face seal female *NPT port only listed once. **MV4 and FV4 only available with W option and both ports must be noted. | 2 = 200 psig/bar<br>4 = 400 psig/bar<br>6 = 600 psig/bar<br>10 = 1,000 psig/bar<br>40 = 4,000 psig/bar<br>50 = 5,000 psig/bar | ***HF option requires VS seat.<br>HF option not recommended<br>for H <sub>2</sub> service.<br>ch female NPT or |