

SERIES KT 10 SINGLE STAGE HIGH PRESSURE REGULATOR HIGH RELIABILITY AND SAFETY BY DESIGN

- 10,000 psig inlet (690 bar) 5 to 10,000 psig outlet (0.35 to 690 bar)
- Stainless steel or brass construction
- Self relieving and non-relieving versions*
- Machined from bar stock
- Field repairable ٠
- Fine adjustment control
- Piston sensing element ٠
- Low flow, 0.06 C_v (HF option, $0.12 C_v$)
- Pneumatic actuator option for pneumatic outlet pressure control
- Installation and operating instructions available at www.aptech-online.com
 - *Self relieving model vents pressure above set point to atmosphere automatically for ease of pressure adjustment and for added safety. Non-relieving model does not vent.
 - **Specific device rating is the lowest of the ratings of body, seat and option selected.
- ***Device delivery pressure cannot exceed its source pressure rating.
- ****10,000 psig outlet is only available with standard 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.

KT 10S

SS, 316

SS, 316

PCTFE

PTFE

SS, 300 series

Polyimide (option available)

Fluoroelastomer / FKM

MATERIALS OF CONSTRUCTION

Body

Inlet filter

O-rings Rings, back up

Piston and trim

Seat, main valve

Seat, vent valve



ENGINEERING DATA Operating Parameters

Source pressure**
SS body
Brass body
Polyimide seat
PEEK seat
HF option
Delivery pressure***

10,000 psig (690 bar) 6,000 psig (414 bar) 10,000 psig (690 bar) 6,000 psig (414 bar) 6,000 psig (414 bar) 5 to 500 psig (0.34 to 34 bar) 5 to 800 psig (0.34 to 55 bar) 10 to 1,500 psig (0.7 to 103 bar) 15 to 2,500 psig (1 to 172 bar) 25 to 4,000 psig (1.7 to 276 bar) 50 to 6,000 psig (3.5 to 414 bar) 100 to 10,000 psig (7 to 690 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

1/4" NPT (options available) 0.06 (opt HF 0.12) -40° to +160°F (-40° to +71°C) Bubble tight Refer to Installation and **Operating Instructions** Self relieving* (must be specified) Standard, non-relieving optional

Shipping weight (approx.) 5 lbs

KT 10C SS, 300 series SS, 316 SS, 300 series Polyimide (option available) PCTFE Fluoroelastomer / FKM

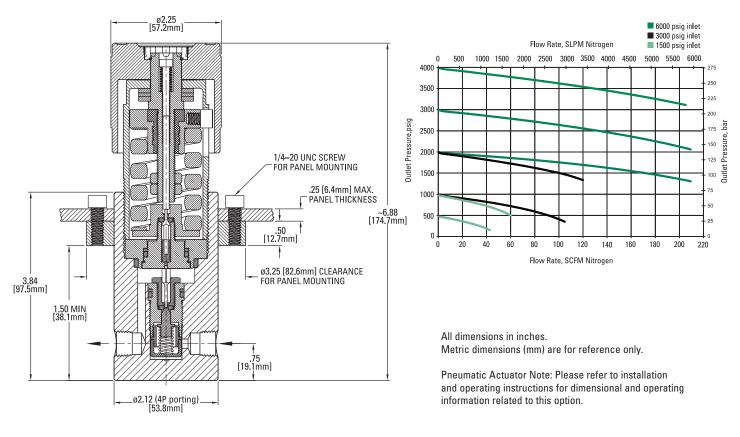
KT 10B

Brass Bronze SS, 300 series Polyimide (option available) PCTFE Fluoroelastomer / FKM PTFF

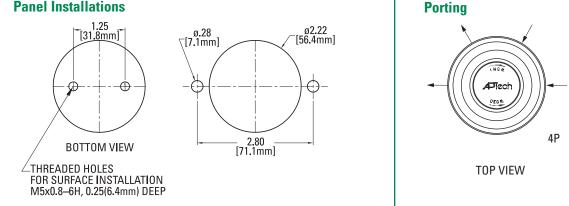
All specifications subject to change without notice.

PTFF

SERIES KT 10 — QUALITY, RELIABILITY & PERFORMANCE!



Panel Installations



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 10	L	1	C	4P	4	60 20	РК	
Series	Pressure Range	Self-Relieving Non-Relieving	Body Material	Ports	Connection	Gauge (Source/Delivery)	Options	
KT 10H = 5-800 KT 10J = 10-1,50 KT 10L = 15-2,50 KT 10N = 25-4,00 KT 10P = 50-6,00	psig (0.34 to 34 bar) psig (0.34 to 55 bar) 00 psig (0.7 to 103 bar) 00 psig (1 to 172 bar) 00 psig (1.7 to 276 bar) 00 psig (3.5 to 414 bar) ,000 psig (7 to 690 bar) S:	S only*		4P = 4 ports	4 = 1/4 inch NPT MS33649 porting available, consult factory	0 = No gauge 6 = 600 psig/bar 10 = 1,000 psig/bar 20 = 2,000 psig/bar 40 = 4,000 psig/bar 60 = 6,000 psig/bar Q = 10,000 psig/bar	HF = High flow*** PK = PEEK main valve seat*** UE = Polyurethane O-rings BN = Buna-N O-rings EP = Ethylene propylene O-rings P = Panel installation****	
1 = Self relieving (venting) 0 = Non-relieving (non-venting) 2 = Pneumatic actuator (non-venting)** B = Brass (4P porting only)				,	ailable with standard seat.			
C = Stainless steel (SS), 300 series S = Stainless steel (SS) 316 AP Tech has product options and variations which are not documented				d in data chaote	**Pneumatic actuator is only available with H, J, N & R pressure ranges. ***HF is not available with KT 10R or PK seat. ****Panel mount not available with pneumatic actuator option.			

AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.