



ADVANCED PRESSURE TECHNOLOGY

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



- ◆ 4,000 psig inlet (280 bar)
5 to 4,000 psig outlet (0.35 to 280 bar)
- ◆ Stainless steel 316L construction, electropolished and passivated body
- ◆ Self relieving and non-relieving versions*
- ◆ Machined from bar stock
- ◆ Field repairable
- ◆ Fine adjustment control
- ◆ Piston sensing element
- ◆ Low flow, 0.06 C_v (HF option, 0.12 C_v)
- ◆ Optional seat and seal materials available

*Self relieving model vents pressure above set point automatically for ease of pressure adjustment and for added 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 of welded construction.

ENGINEERING DATA

Operating Parameters

Source pressure	4,000 psig (280 bar)
Delivery pressure	5 to 500 psig (0.35 to 35 bar) 5 to 800 psig (0.35 to 56 bar) 10 to 1,500 psig (0.7 to 95 bar) 15 to 2,500 psig (1 to 175 bar) 25 to 4,000 psig (1.7 to 280 bar)
Design proof pressure	150% of maximum rating
Design burst pressure	400% of maximum rating

Other Parameters

Inlet /outlet ports	1/4 inch face seal
Flow coefficient C _v	0.06 (opt HF 0.12)
Operating temperature	-40 to +160F (-40 to +71C)
Leak rate**	Bubble tight
Self relieving*	Standard, non-relieving optional (must be specified)
Shipping weight (approx.)	5 lbs

MATERIALS OF CONSTRUCTION

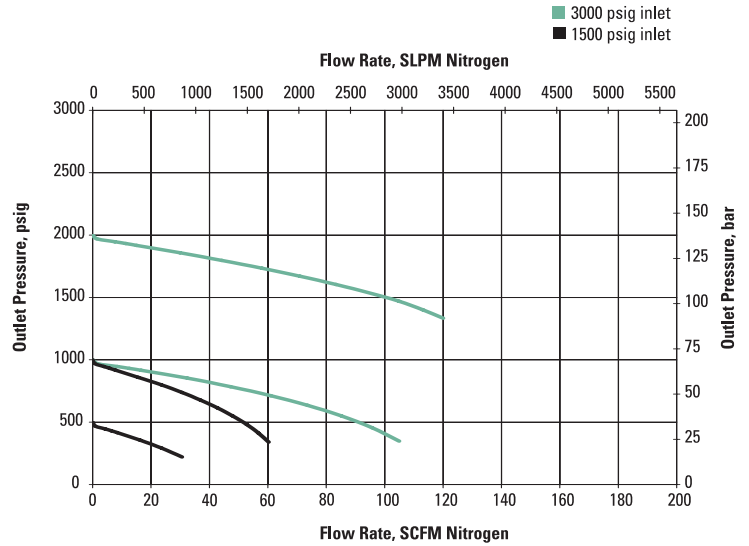
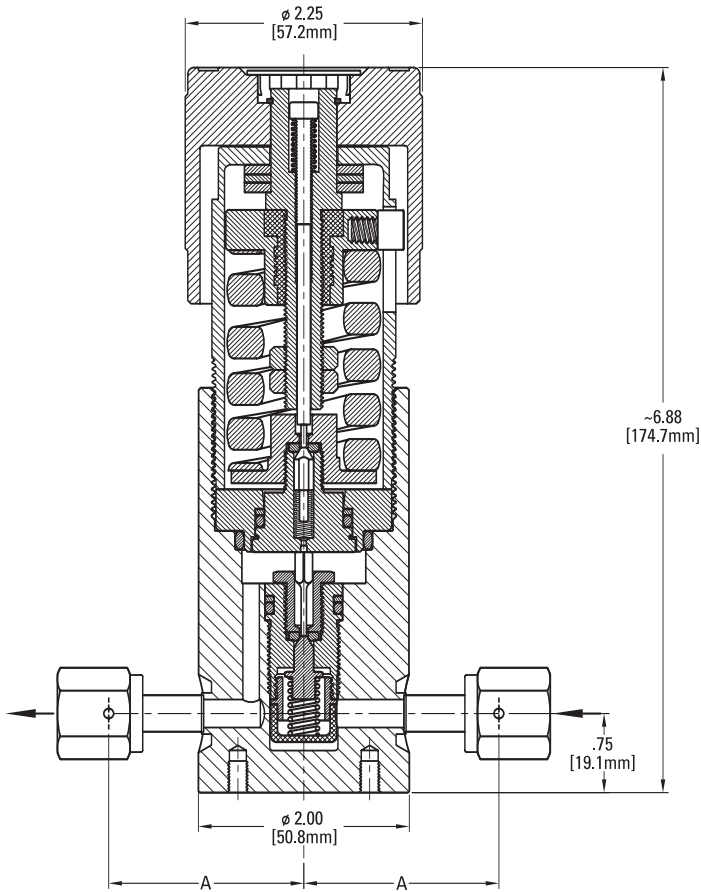
	KT 10S
Body	SS, 316L
Inlet filter	SS, 316
Piston and trim	SS, 300 series
Seat, main valve	Vespel® (option available)
Seat, vent valve	PCTFE
O-rings	Viton® (option available)
Rings, back up	PTFE

All specifications subject to change without notice.

Viton® DuPont

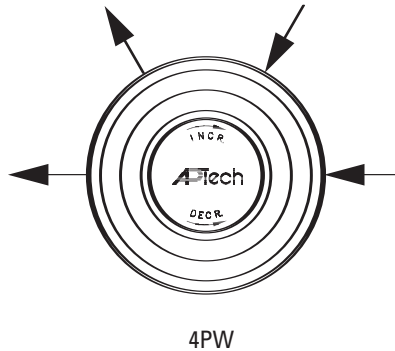
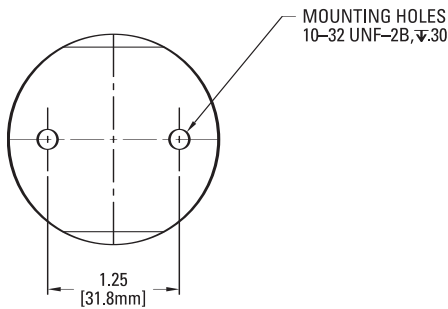
Vespel® DuPont

SERIES KT 10 — SERVICE AND SUPPORT BEYOND COMPARE



Connection	A	
	inch	mm
FV4, MV4	1.85 ±.02	47.0

Porting



ORDERING INFORMATION

KT 10 Series	L Pressure Range	1 Relieving Non-Relieving	S Body Material	4PW Ports	FV4 FV4 Connection Inlet Outlet	40 20 Gauge (Source/Delivery)	PK Options
KT 10F = 5-500 psig (0.35 to 35 bar) KT 10H = 5-800 psig (0.35 to 56 bar) KT 10J = 10-1,500 psig (0.7 to 95 bar) KT 10L = 15-2,500 psig (1 to 175 bar) KT 10N = 25-4,000 psig (1.7 to 280 bar)				4PW = 4 ports	MV4 = 1/4 inch face seal male FV4 = 1/4 inch face seal female	0 = No gauge 6 = 600 psig/bar 10 = 1,000 psig/bar 20 = 2,000 psig/bar 40 = 4,000 psig/bar	HF = High flow PK = PEEK main valve seat UE = Polyurethane O-rings BN = Buna-N O-rings EP = Ethylene propylene O-rings
1 = Self relieving (venting) 0 = Non-relieving (non-venting)					*Standard gauge ports are MV4 (FV4 available)		
S = 316L stainless steel							