Introduction - Needle Valve

The Parker 20K H-Series needle valve has been purpose designed for operation with any fluid up to 20,000 psi (1379 bar) rating. Complete with standard PTFE gland packing and non rotational tip gives the user assurance of total in service sealing security. 100% repeatable bubble tight shut off and Tru-Loc® gland adjuster security are key features of this design. A range of end connections are offered including Phastite® and Cone & Thread, with additional options for NACE compatible and heat code traceable materials.

Features

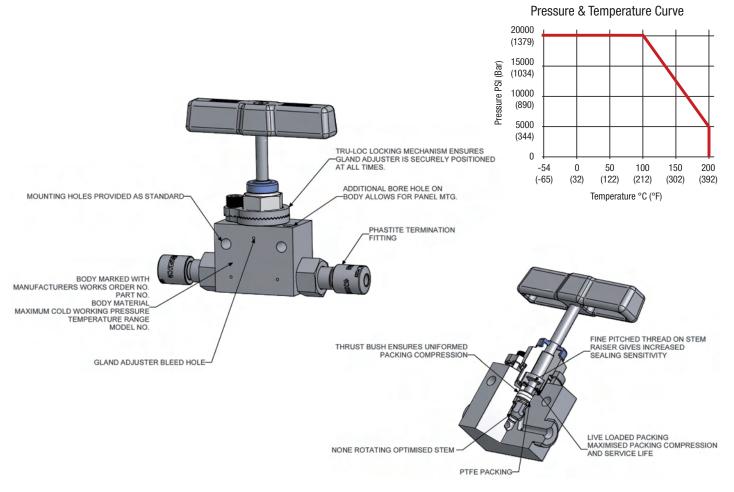
- · All valves 100% factory tested
- Inlet & outlet connections on same plane for ease of installation
- PTFE packing
- Non rotating spindle tip for bubble tight shut off
- Externally adjustable packing
- NACE compatible option
- Operating threads outside washout area
 - No pressure retaining threads in contact with media

- Fine threaded stem raiser gives increased stem sensitivity and accuracy
- Tru-Loc® anti-vibration locking system on gland adjuster for 100% security
- HCT available on all wetted parts
- Alternative material options available on request
- Panel and side mounting as standard

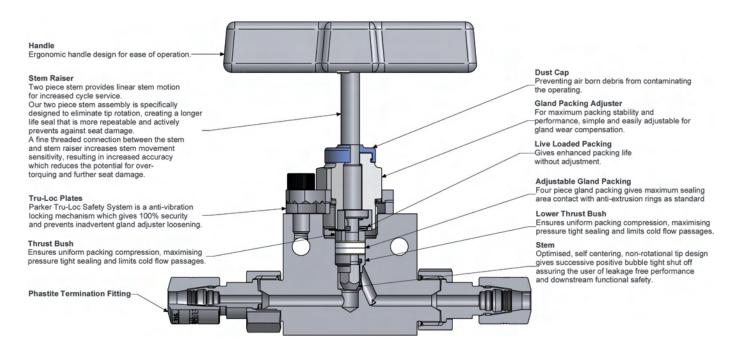
Specifications

- 316 Stainless steel construction as standard
- Maximum cold working pressure rating - 20,000 psi (1379 bar)
- PTFE standard gland packing with PEEK anti-extrusion rings
- Max Cv 0.66 (dependent on fitting size)
- Temperature rating -54°C to +200°C (-65.2°F to +392°F)*

*refer to P/T graph below



Design Features



Standard Range Part Numbers

Part no.	Inlet	Outlet	Orifice Size	Max Cv	Dimension							
	Female	Female	mm (inch)	Rating	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	G mm (inch)	H mm (inch)
Cone and Thread												
20KNVS4CT	1/4" C&T	1/4" C&T	2.8 (0.11)	0.14	50.8 (2.00)	28.6 (1.13)	113.2 (4.46)	41.3 (1.63)	31.8 (1.25)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVS6CT	3/8" C&T	3/8" C&T	5.0 (0.20)	0.50	63.5 (2.50)	28.6 (1.13)	116.4 (4.58)	44.5 (1.75)	33.0 (1.30)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVS9CT	9/16" C&T	9/16" C&T	6.0 (0.24)	0.66	76.2 (3.00)	28.6 (1.13)	122.7 (4.83)	50.8 (2.00)	36.5 (1.44)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
Phastite Phastite												
20KNVS4PH	1/4" PH	1/4" PH	3.7 (0.15)	0.14	66.0 (2.60)	28.6 (1.13)	116.4 (4.58)	44.5 (1.75)	31.8 (1.25)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVS6PH	3/8" PH	3/8" PH	6.0 (0.24)	0.50	66.0 (2.60)	28.6 (1.13)	122.7 (4.83)	50.8 (2.00)	34.9 (1.38)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVS8PH	1/2" PH	1/2" PH	6.0 (0.24)	0.66	66.0 (2.60)	28.6 (1.13)	122.7 (4.83)	50.8 (2.00)	34.9 (1.38)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVSM6PH	6 mm PH	6 mm PH	3.7 (0.15)	0.35	66.0 (2.60)	28.6 (1.13)	116.4 (4.58)	44.5 (1.75)	31.8 (1.25)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVSM8PH	8 mm PH	8 mm PH	4.7 (0.19)	0.60	66.0 (2.60)	28.6 (1.13)	122.7 (4.83)	50.8 (2.00)	34.9 (1.38)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVSM10PH	10 mm PH	10 mm PH	6.0 (0.24)	0.66	66.0 (2.60)	28.6 (1.13)	122.7 (4.83)	50.8 (2.00)	34.9 (1.38)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVSM12PH	12 mm PH	12 mm PH	6.0 (0.24)	0.66	66.0 (2.60)	28.6 (1.13)	122.7 (4.83)	50.8 (2.00)	34.9 (1.38)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)
20KNVSM14PH	14 mm PH	14 mm PH	6.0 (0.24)	0.66	66.0 (2.60)	28.6 (1.13)	122.7 (4.83)	50.8 (2.00)	34.9 (1.38)	12.0 (0.47)	82.7 (3.26)	36.0 (1.42)

Other materials and connection options are available. The actual pressure ratings for any alternative option will vary from those stated - please consult with factory for your specific requirements.

The specification of any alternative material, connection or tubing is critical to the overall performance of the system. Caution should be exercised by the user to ensure proper selection in accordance with actual operating or design conditions.

Valves with Phastite® connections are recommended for use with 316/316L tubing conforming to ASTM A-269, having a hardness not exceeding 90HRB.

