

# INSTRUMENTATION VALVES

## NEEDLE VALVES

### V SERIES

- For positive leak tight shut-off and regulation of fluids
- Choice of three stem types
- Wide variety of size and end connections



### SN6 SERIES

- Provides shut-off and coarse regulation of liquids and gases
- Choice of two stem types
- In-line and angle patterns
- Ideal cylinder valve



### VQ SERIES

- In-line and angle patterns
- Panel mountable
- Colour-coded handles
- Quick actuation for low pressure applications



### NP6 SERIES

- Choice of two non-rotating stem types
- Packing below power threads
- Panel mountable
- Fracture resistant nylon handle



### PV SERIES

- Roddable, straight through flow path
- Gauge port option
- Bonnet lock plate resists accidental bonnet disengagement
- PEEK™, Acetal, PFA seat materials available



### U SERIES

- Stem packing below the threads isolates the thread lubricant from the flow
- Severe service applications
- Panel mountable
- Ideal for steam blowdown



### HNV SERIES

- Compact needle valves
- For applications up to 10,000 psi (690 bar)
- Available with integral A-LOK® or CPI™ connections, reducing leak paths and reducing installation costs
- Soft tipped optional seating available for gaseous applications



### RPV SERIES

- For fluids containing high levels of contamination frequently found in oil and gas processing facilities
- Straight through flow pattern, roddable design
- 100% repeatable bubble tight shut off



**Please Note:** Dimensions for reference only, subject to change.

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## NEEDLE VALVES

### HGV SERIES

- Up to 10,000 psi (690 bar)
- Compact single and multi port gauge valves
- Soft tipped optional seating available for gaseous applications



### 20K H-SERIES

- Designed for cold working pressure applications of up to 20,000 psi (1,379 bar)
- Non-rotating spindle for bubble tight shut off
- Externally adjustable gland
- Fine threaded stem raiser gives increased stem sensitivity and accuracy
- Tru-Loc® anti-vibration locking system on gland adjuster for 100% security



Valve groups		Needle valves													
Model series		V	SN6	VQ	NP6	PV	U	MPN	MPGV	HNV	HRPV	HGV	HVG	HYNV	20K HNV
Maximum operating pressure		6,000 psi 414 bar	6,000 psi 414 bar	300 psi 21 bar	6,000 psi 414 bar	6,000 psi 414 bar	6,000 psi 414 bar	20,000 psi 1379 bar	30,000 psi 2068 bar	10,000 psi 690 bar	10,000 psi 690 bar	10,000 psi 690 bar	6,000 psi 414 bar	10,000 psi 690 bar	20,000 psi 1379 bar
Temp	Min	-65 F -54 C	-65 F -54 C	-20 F -29 C	-70 F -57 C	-20 F -29 C	-65 F -54 C	-65 F -54 C	-10 F -23 C	-65 F -54 C	-65 F -54 C	-65 F -54 C	-65 F -54 C	-65 F -54 C	-63 F -54 C
	Max	450 F 232 C	450 F 232 C	200 F 93 C	700 F 371 C	400 F 204 C	1200 F 649 C	800 F 427 C	400 F 204 C	1000 F 538 C	1000 F 538 C	1000 F 538 C	1000 F 538 C	1000 F 538 C	392 F 200 C
CV	Max	1.30	0.30	0.80	0.60	2.00	2.70			0.35	1.80	0.35	0.35	0.35	0.66
Body material	Stainless steel	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Alloy	X								X	X	X	X		
Actuation	Manual	X	X	X	X	X	X	X	X	X	X	X	X		
	Pneumatic			X				X							
Seat / Seal material	PTFE	X	X	X	X		X	X		X	X	X	X	X	X
	Buna-N rubber	X		X	X	X			X						
	Ethylene Propylene Rubber	X		X	X	X			X						
	Highly Fluorinated Fluorocarbon			X	X	X			X						
	Fluorocarbon Rubber	X		X	X	X			X						
	Silicon Rubber					X	X	X							
	GRAFOIL®		X		X					X	X	X	X	X	
End connection size range	Min	1/8 in 3 mm	1/4 in	1/8 in 3 mm	1/4 in 6 mm	1/4 in	1/8 in 6 mm	1/4 in	9/16 in	1/4 in 6 mm	1/4 in 6 mm	1/4 in 6 mm	1/4 in 6 mm	1/4 in 6 mm	1/4 in 6 mm
	Max	3/4 in 12 mm	1/4 in	1/2 in 10 mm	3/8 in 8 mm	3/4 in	1 in 25 mm	1 in	9/16 in	1/2 in 12 mm	1/2 in 12 mm	1/2 in 12 mm	1/2 in 12 mm	1/2 in 12 mm	9/16 in 14 mm



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