

HIGH PRESSURE NEEDLE VALVES

10,000 PSI TO 60,000 PSI RATED

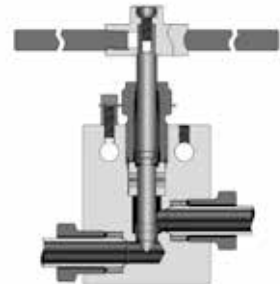
NEEDLE VALVES

- Non-rotating stem and bar stock body design
- Easy to assemble and replace packing
- Metal-to-metal seating achieves ideal shut-off, longer stem / seat service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on / off cycles
- The standard packing material for 60N Series is Nylon, and other series is PTFE. RPTFE glass, extended stuffing box with graphite are also available
- Extended stuffing box with graphite can be operated to 1200°F (649°C)
- The location of packing is under the thread of valve stem
- The material of packing gland and lower stem have been selected to achieve reduced handle torque and extended thread cycle life
- Options for Vee or Regulating stem tips
- Five flow patterns are available
- Available to NACE MR-01-75



10N SERIES NEEDLE VALVES

- End connections: 9/16", 3/4", 1" tube fittings and 3/4" NPT, 3/4" BSPT, 1" NPT, 1" BSPT
- Body materials: 316 SS
- Orifice sizes: 0.359", 0.516", 0.688", 0.438" and 0.562"
- Working pressure up to: 10000 psig (690 bar)
- Working temperature: -100°F to 1200°F (-73°C to 649°C)



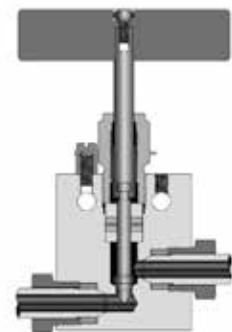
15N SERIES NEEDLE VALVES

- End connections: 1/8", 1/4", 3/8", 1/2" tube fittings and 1/8" NPT, 1/8" BSPT, 1/4" NPT, 1/4" BSPT, 3/8" NPT, 3/8" BSPT, 1/2" NPT, 1/2" BSPT
- Body materials: 316 SS
- Orifice sizes: 0.094", 0.188", 0.250", 0.375", 0.078", 0.203", 0.219" and 0.312"
- Working pressure up to: 15000 psig (1034 bar)
- Working temperature: -100°F to 800°F (-78°C to 427°C)



20N SERIES NEEDLE VALVES

- End connections: 1/4", 3/8", 9/16", 3/4" and 1" tube fittings
- Body materials: 316 SS
- Orifice (mm): 0.125", 0.219", 0.312", 0.438", 0.562"
- Working pressure up to: 20000 psig (1379 bar)
- Working temperature: -100°F to 1200°F (-73°C to 649°C)



HIGH PRESSURE NEEDLE VALVES

10,000 PSI TO 60,000 PSI RATED

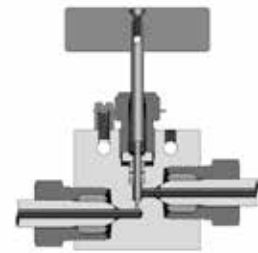
30N SERIES NEEDLE VALVES

- End connections: 1/4", 3/8", 9/16" tube fittings
- Body materials: 316 SS
- Orifice (mm): 0.094", 0.125"
- Working pressure up to: 30000 psig (2068 bar)
- Working temperature: -100°F to 1200°F (-73°C to 649°C)



60N SERIES NEEDLE VALVES

- End connections: 1/4", 3/8", 9/16" tube fittings
- Body materials: 316 SS
- Orifice (mm): 0.063", 0.078"
- Working pressure up to: 60000 psig (4137 bar)
- Working temperature: -100°F to 1200°F (-73°C to 649°C)



PART NUMBER DESCRIPTION

15N SS - FH4 - R G 2

SERIES	BODY MATERIAL		CONNECTOR SIZES		STEM TIPS		PACKING		FLOW PATTERNS	
	SS	316 SS	FH2	1/8"		Vee		PTFE	1	Straight
15N			FH4	1/4"	R	Regulating		Nylon	2	Angle
20N			FH6	3/8"			TG	RPTFE Glass	3	Angle (replaceable seat)
30N			FH8	1/2"			G	Graphite	4	3-way / 2 on pressure
60N			FH9	9/16"			HT	Extend stuffing box valve with Graphite	5	3-way / 1 on pressure
			FH12	3/4"					6	3-way / 2 stem manifold
			FH16	1"						
			FNS2	1/8 NPT (Female)						
			FNS4	1/4 NPT (Female)						
			FNS6	3/8 NPT (Female)						
			FNS8	1/2 NPT (Female)						
			FNS12	3/4 NPT (Female)						
			FNS16	1 NPT (Female)						
			FRT2	1/8 BSPT (Female)						
			FRT4	1/4 BSPT (Female)						
			FRT6	3/8 BSPT (Female)						
			FRT8	1/2 BSPT (Female)						
			FRT12	3/4 BSPT (Female)						
			FRT16	1 BSPT (Female)						

NB: "Part Number Description" is used for composition rules of Abdex product model, not suitable for specific product part number selection, not random combinations. If in doubt, please contact Abdex.