

INSTRUMENTATION NEEDLE VALVES

3,000 PSI TO 10,000 PSI RATED

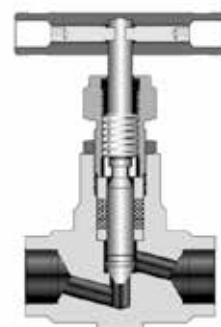
NEEDLE VALVES FEATURES

- The non-rotating stem eliminates galling between the seat and tip, and reducing the friction of sealed packing. Effectively improving the service life of the valve and valve packing.
- Intermittent packing system designed to effectively reduce the cold flow of valve packing and the valve operating torque. While using the system media for the use of valve packing.
- Packing mounted on the bottom of the stem transmission thread designed to achieve the isolation of transmission thread lubricating material and system medium to prevent transmission thread lubricating substance contamination of the media on the system.
- Threaded operating torque transmitted using online extrusion and roll forming process, effectively improves the strength and precision of the threads. To provide strong protection for operating torque for the screw to pass long-term, stable and reliable torque transmission.
- Different body materials and structure selection, a variety of colours and forms of the handle and optional panel mounting structure to achieve different requirements and different application occasions.



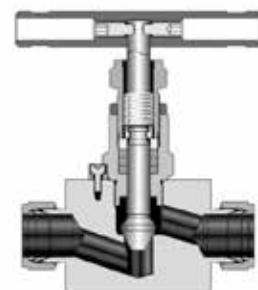
FORGED NEEDLE VALVES - NF & NFH SERIES

- One-piece forged body
- Body materials: Carbon steel / A105, 316 SS, 316L SS, 304 SS, 304L SS, 321 SS, Duplex 2205, Alloy 400, Alloy C-276 and brass
- Orifice (mm): 4, 6.4, 10, 15 and 18 (15 and 18 suitable for NF series only)
- Working pressure up to:
 - NF Series - 6000 psig (41.4 MPa)
 - NFH Series - 10000 psig (69.0 MPa)
- Working temperature: -65°F to 1200°F (-54°C to 649°C)
- Sealing face materials: Same as body material, optional stellite available
- Stem tips type: blunt, ball, regulating and soft tips (suitable for NF series only)
- End Connection type and size:
 - 1/8" to 1" and M10 to M36 thread
 - 1/4" to 1" and 6mm to 28mm tube fitting
 - 3/8" to 1" and 12mm to 25mm weld



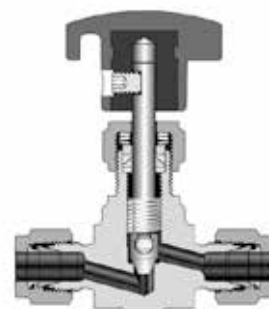
BAR STOCK NEEDLE VALVES - NB & NBH SERIES

- Cold drawn bar
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, Duplex 2205, Alloy C-276 and brass
- Orifice (mm): 4, 6, 10, 15 and 18 (15 and 18 suitable for NB series only)
- Working pressure up to:
 - NB Series - 6000 psig (41.4 MPa)
 - NBH Series - 10000 psig (69.0 MPa)
- Working temperature: -65°F to 1200°F (-54°C to 649°C)
- Sealing face materials: Same as body material, optional stellite available
- Stem tips type: blunt, ball, regulating and soft tips (suitable for NB series only)
- End Connection type and size:
 - 1/8" to 1" and M14 to M27 thread
 - 1/4" to 1" and 6mm to 25mm tube fitting
 - 3/8" to 1" and 10mm to 28mm weld



GENERAL PURPOSE NEEDLE VALVE - NG & NGH SERIES

- One-piece forged body
- Body materials: Carbon steel / A105, 316 SS, 316L SS, 304 SS, 304L SS, Duplex 2205, Alloy 400, Alloy C-276 and brass
- Orifice (mm): 2, 4, 6.4, 10
- Working pressure up to:
 - NG Series - 3000 psig (20.7 MPa)
 - NGH Series - 5000 psig (34.5 MPa)
- Working temperature: -65°F to 600°F (-54°C to 315°C)
- Sealing face materials: Same as body material
- Stem tips type: blunt, ball, regulating and soft tips
- End Connection type and size:
 - 1/8" to 3/4" and M14 to M27 thread
 - 1/4" to 3/4" and 6mm to 25mm tube fitting

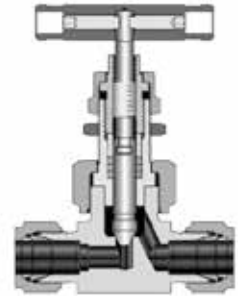


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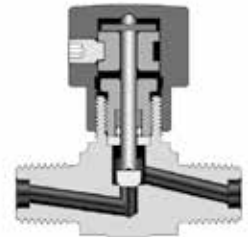
UNION BONNET NEEDLE VALVES - NU & NUH SERIES

- One-piece forged body
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, Duplex 2205, Alloy 400, Alloy C-276 and brass.
- Orifice (mm): 4, 6.4, 10
- Working pressure up to:
 - NU Series - 6000 psig (41.4 MPa)
 - NUH Series - 10000 psig (69.0 MPa)
- Working temperature: -65°F to 1200°F (-54°C to 649°C)
- Sealing face materials: Same as body material, optional stellite available
- Stem tips type: blunt, ball, regulating and soft tips (suitable for NU series only)
- End Connection type and size:
 - 1/8" to 1" and M14 to M27 thread
 - 1/4" to 1" and 6mm to 25mm tube fitting
 - 3/8" to 1" and 10mm to 28mm weld



NON-ROTATING STEM NEEDLE VALVES - ND SERIES

- One-piece forged body
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, Alloy 400 and brass
- Orifice (mm): 2, 4, 6.4
- Working pressure up to: 3000 psig (2.07 MPa)
- Working temperature: -20°F to 450°F (-28°C to 232°C)
- Sealing face materials: Same as body materials
- End Connection type and size:
 - 1/8" to 1/2" and M10 to M20 thread
 - 1/4" to 1/2" and 3mm to 12mm tube fitting



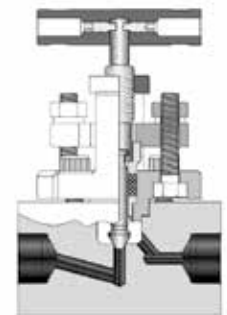
RISING PLUG VALVES - NR & NRG SERIES

- Cold drawn square bar
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, Duplex, Alloy 400, Alloy C-276 and brass
- Orifice (mm): 4, 6.4
- Working pressure up to: 6000 psig (41.4 MPa)
- Working temperature: -20°F to 400°F (-28°C to 204°C)
- Sealing face materials: Soft seat design
 - Seat materials: Acetal, PEEK, PFA
- End Connection type and size:
 - 1/8" to 1/2" and M14 to M20 thread
 - 1/4" to 1/2" and 6mm to 12mm tube fitting



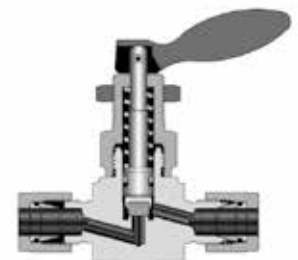
OUTSIDE SCREW & YOKE (OS & Y) NEEDLE VALVES - NY & NYH SERIES

- Cold drawn bar
- Body materials: Carbon steel / A105, 316 SS, 316L SS, 304 SS, 304L SS, Duplex, Alloy 400, Alloy C-276 and brass
- Orifice (mm): 4
- Working pressure up to:
 - NY Series - 6000 psig (41.4 MPa)
 - NYH Series - 10000 psig (69.0 MPa)
- Working temperature: -65°F to 1200°F (-54°C to 649°C)
- Sealing face materials: Same as body material, optional stellite available
- Externally adjustable gland independent of spindle thread
- End Connection type and size:
 - 1/4" to 1/2" and M10 to M20 thread
 - 1/4" to 1/2" and 6mm to 12mm tube fitting
 - 3/8" to 1/2" and 10mm to 20mm weld



TOGGLE VALVES - NT SERIES

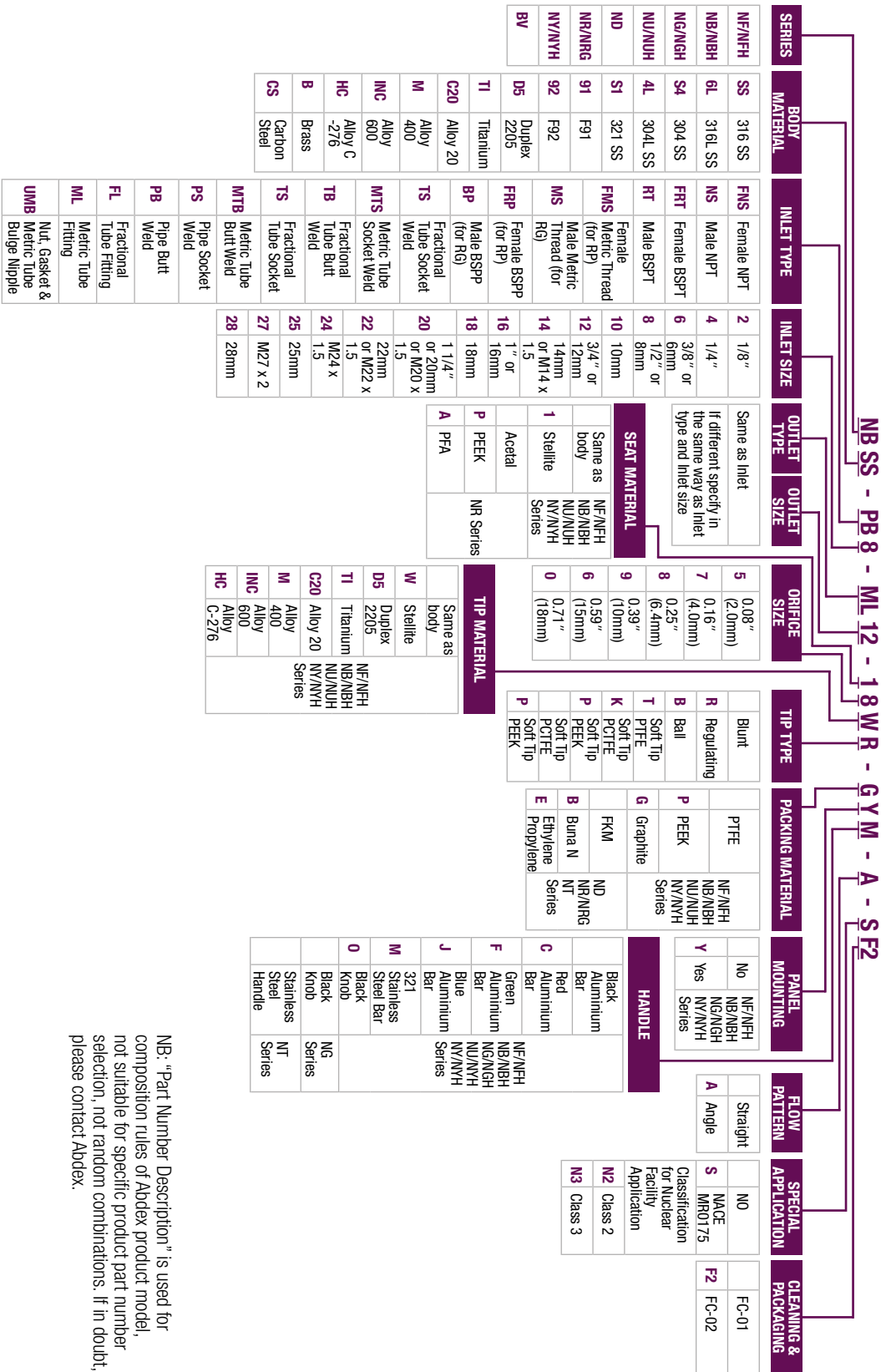
- One-piece forged body
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS and brass
- Orifice (mm): 2, 4, 6.4
- Working pressure up to: 300 psig (2.07 MPa)
- Working temperature: -20°F to 250°F (-28°C to 121°C)
- Sealing face materials: Same as body material
- End Connection type and size:
 - 1/8" to 1/2" and M10 to M20 thread
 - 1/4" to 1/2" and 3mm to 12mm tube fitting



FITOK
Valves and Fittings

NEEDLE VALVES

PART NUMBER DESCRIPTION



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.