

AMERICAN METER

Needle Valves

Data Sheet



American Meter needle valves are used for many gas measurement and control applications – orifice meter gauge line connections, shut-off valves for pressure gauges, odorizers, sampling devices and other high-pressure fluid control applications in refineries and chemical plants. They are available in carbon steel or stainless

steel and will give long-lasting, dependable service under the most severe conditions.

Materials

COMPONENTS

	STEEL MODELS	SS MODELS
Valve Body	12L14 Carbon Steel	316SS
Angle Pattern	CD1018 Carbon Steel	316SS
Bonnet	12L14 Carbon Steel	316SS
Valve Stem	316SS	316SS
Handle	12L14 Carbon Steel	316SS
Handle Setscrew	Carbon Steel	18-8SS
Bonnet Lock	Carbon Steel	18-8SS
Panel Mount Nuts	12L14 Carbon Steel	18-8SS
Stem Seals	Viton O-Ring and Teflon Back-Up Ring	Viton O-Ring and Teflon Back-Up Ring

Features

- Metal-to-metal hard seat design for a bubble-tight seal.
- 10,000 psi pressure rating (@200°F maximum).
- Blowout-proof stem that provides a secondary stem seal in the full-open position.
- Stem packing below the threads prevents thread galling and corrosion.
- Viton O-Ring and Teflon back-up ring stem seals.
- All 316SS stems (even in steel valves) for longer life.
- Stem and bonnet threads are rolled for greater strength and smoother operation.
- Stem and bonnet sealing surfaces are burnished to a 16 RMS mirror finish.
- Angled stem for precise flow metering.
- One-piece bonnet with a metal-to-metal seal to the valve body below the bonnet threads.
- Bonnet lock pin to prevent accidental loosening.
- Vinyl bonnet and stem dust cap.
- .187 inch orifice size. Maximum Cv .52.
- Optional panel-mount bonnet and panel nuts.
- Electroless nickel-plated finish on carbon-steel valves.
- Electro-polish finish on stainless-steel valves.

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	Pipe Size (inches)	Part Number		Dimensions (inches)		
		Teflon 12L14 Carbon Steel	Teflon 316 Stainless Steel	A	B	C
<p>Straight Pattern</p>	1/4	28058G014	28058G015	3.850	1.250	2.500
	1/2	28062G010	-	3.850	1.250	2.500
<p>Angle Pattern</p>	1/4	56027G005	-	4.125	1.625	1.750



AMERICAN METER

300 Welsh Road
Building One
Horsham, PA 19044-2234 U.S.A.
Phone: 215/830-1800
Fax: 215/830-1890



CANADIAN METER

3037 Derry Road, West
Milton, Ontario L9T 2X6 Canada
Phone: 905/878-2361
Fax: 905/878-5758