

# Kerotest Needle and Gauge Valves

## N21 Angle Union Bonnet Needle Valve



### Product Brief

A rugged, forged construction delivers dependable, leak-free performance at high and low pressures. Designed to measure and regulate flow in processing plants and oil and gas production applications, these valves perform in tight spaces and resist low-level corrosiveness. With optional trim, they also resist sour fluid environments, caustic liquids and corrosive media.

### Features/Benefits

- **Maximum operating pressure:** 10,000 psi @ 100° F (38° C).
- **Temperature limits:** Maximum temperature 750° F (398° C).
- **Operation:** Ideal where danger of fire exists.
- **Body:** Metal-to-metal back seat.
- **Flow:** Prevents flow media from entering atmosphere when Open (back seated) or in the Closed position.
- **Connection:** Female pipe ends per ANSI B1.20.1, socket weld ends per ANSI B16.11.
- **Packing:** Repack in Open or Closed position.



*An Employee-Owned Company*

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## Product Description

Description	Carbon Steel	Stainless Steel
Body	ASTM-A108 Gr. 1213 ①②	ASTM-A182 Type F316
Stem	ASTM-A582 Type 416	ASTM-A582 Type 303 ③
Packing Nut	ASTM-A108 Gr. 1213 ①	ASTM-A582 Type 303
Bonnet	ASTM-A108 Gr. 1213 ①	ASTM-A276 Type 316
Packing Washer	AISI-C1010 ①	18-8 Stainless Steel
Packing	Garlock 127 AFP UTEX Style 1303	Garlock 127 AFP UTEX Style 1303
Handle	Carbon Steel ④	Carbon Steel ④
Union Nut	ASTM-A108 Gr. 1213 ①	ASTM-A582 Type 416
Handle Nut	Plated Steel	Plated Steel

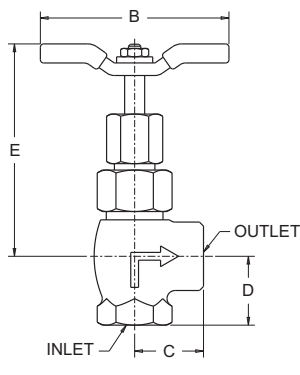
### Notes

- ① Zinc plated.
  - ② A105 also available.
  - ③ Special trim available for sour gas service.
  - ④ Yellow zinc plated.
- Grafoil® packing available upon request.

## Ordering Code/Specifications

Size	Catalog Number	Inlet Size Outlet Size	Body Material	Stem Material	Max. Temp.	Bonnet Type	Approx. Weight (lbs)
1/4"	P-ON21-49-002	1/4" Female NPT	ASTM-A108 AISI 1045 Carbon Steel	ASTM-A582 416 Stainless Steel	750° F 399° C	Union	0.90
	T-ON21-49-002		ASTM-A182 316 Stainless Steel	ASTM-A582 303 Stainless Steel			0.90
	P-ON21-96-002	1/4" Socket Weld	ASTM-A108 AISI 1045 Carbon Steel	ASTM-A582 416 Stainless Steel	750° F 399° C		0.90
	T-ON21-96-002		ASTM-A182 316 Stainless Steel	ASTM-A582 303 Stainless Steel			0.90
3/8"	P-ON21-49-003	3/8" Female NPT	ASTM-A108 AISI 1045 Carbon Steel	ASTM-A582 416 Stainless Steel	750° F 399° C	Union	1.23
	T-ON21-49-003		ASTM-A182 316 Stainless Steel	ASTM-A582 303 Stainless Steel			1.23
	P-ON21-96-003	3/8" Socket Weld	ASTM-A108 AISI 1045 Carbon Steel	ASTM-A582 416 Stainless Steel	750° F 399° C		1.23
	T-ON21-96-003		ASTM-A182 316 Stainless Steel	ASTM-A582 303 Stainless Steel			1.23
1/2"	P-ON21-49-004	1/2" Female NPT	ASTM-A108 AISI 1045 Carbon Steel	ASTM-A582 416 Stainless Steel	750° F 399° C	Union	1.23
	T-ON21-49-004		ASTM-A182 316 Stainless Steel	ASTM-A582 303 Stainless Steel			1.23
	P-ON21-96-004	1/2" Socket Weld	ASTM-A108 AISI 1045 Carbon Steel	ASTM-A582 416 Stainless Steel	750° F 399° C		1.23
	T-ON21-96-004		ASTM-A182 316 Stainless Steel	ASTM-A582 303 Stainless Steel			1.23
3/4"	P-ON21-49-006	3/4" Female NPT	ASTM-A108 AISI 1045 Carbon Steel	ASTM-A582 416 Stainless Steel	750° F 399° C	Union	1.95
	T-ON21-49-006		ASTM-A182 316 Stainless Steel	ASTM-A582 303 Stainless Steel			1.95

## Dimensions



Note: Approximate dimensions in Inches (mm).

	A	B	C	D	E	F
Size	Width	Handle Width	CL-to-Outlet	CL-to-Inlet	CL-to-Top (Open)	Hex Flat-to-Flat
1/4"	1.07 (27.2)	3.00 (76.2)	1.03 (26.2)	1.03 (26.2)	3.31 (84.1)	1.00 (25.4)
3/8"	1.13 (28.7)	3.00 (76.2)	1.25 (31.8)	1.25 (31.8)	3.50 (88.9)	1.25 (31.8)
1/2"	1.13 (28.7)	3.00 (76.2)	1.25 (31.8)	1.25 (31.8)	3.50 (88.9)	1.25 (31.8)
3/4"	1.38 (35.1)	4.00 (101.6)	1.50 (38.1)	1.50 (38.1)	4.16 (105.7)	1.50 (38.1)

All product names referenced herein are trademarks of their respective companies.



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