

Kerotest Needle and Gauge Valves

110 Gauge Shutoff Valve

Features

- Rugged Forged Body
- Accurate Flow Control
- Low Operating Torque
- 10,000 PSI
- Threaded Pipe Ends per ANSI B1.20.1



DESCRIPTION	110N		110***
	Carbon Steel		Stainless Steel (Sour Gas Service)
Seat Ring	Integral		Integral
Body	ASTM-A105*	ASTM-A108 Gr. 1213*	ASTM-A182 Type F316
Stem	ASTM-A582 Type 416		17-4 PH Stainless Steel
Packing Nut	ASTM-A108 Gr. 1213*		ASTM-A276 Type 304
Gland	316 Stainless Steel		316 Stainless Steel
Packing Washer	AISI-C1010*		ASTM-A276 Type 304
Packing	Teflon (500 ° F)		Teflon (500 ° F)
Handle	Carbon Steel **		Carbon Steel
Handle Nut	Plated Steel		Plated Steel
* Zinc Plated			
** Yellow Zinc Plated			
*** Complies with NACE Spec. MR-01-75 for sour gas and suitable for Arctic service			

Specifications:

In-line	110N Needle
Size: Male X Female	1/2 " NPT
Max. Working Pressure	10,000 PSI @ 100 ° F
Max Temperature	500 ° F
Weight	2.5 lbs
C/L to Top (Open)	4 – 5/32 "
End-to-End	4 "

Ordering Code:

Gauge Valves	110N Needle 10,000 PSI
Carbon Steel (A105)	N-110N-35-004
Carbon Steel (A108)	P -110N-35-004
316 Stainless Steel (NACE)	T -110N-35-004-A03
Carbon Steel (NACE)	N-110N-35-004-A06



Kerotest Needle and Gauge Valves

200 Gauge Shutoff Valve

Features

- Rugged Forged Body
- Accurate Flow Control
- Low Operating Torque
- 10,000 PSI
- Threaded Pipe Ends per ANSI B1.20.1



DESCRIPTION	200N		200***
	Carbon Steel		Stainless Steel (Sour Gas Service)
Seat Ring	Integral		Integral
Body	ASTM-A105*	ASTM-A108 Gr. 1213*	ASTM-A182 Type F316
Stem	ASTM-A582 Type 416		17-4 PH Stainless Steel
Packing Nut	ASTM-A108 Gr. 1213*		ASTM-A276 Type 304
Gland	316 Stainless Steel		316 Stainless Steel
Packing Washer	AISI-C1010*		ASTM-A276 Type 304
Packing	Teflon (500 ° F)		Teflon (500 ° F)
Handle	Carbon Steel **		Carbon Steel
Handle Nut	Plated Steel		Plated Steel
* Zinc Plated			
** Yellow Zinc Plated			
*** Complies with NACE Spec. MR-01-75 for sour gas and suitable for Arctic service			

Specifications:

Ordering Code:

In-line	200N Needle	Gauge Valves	200N Needle 10,000 PSI
Size: Male X Female	1/2 " NPT	Carbon Steel (A105)	N-200N-35-004
Max. Working Pressure	10,000 PSI @ 100 ° F	Carbon Steel (A108)	P -200N-35-004
Max Temperature	500 ° F	316 Stainless Steel (NACE)	T -200N-35-004-A03
Weight	1.5 lbs	Carbon Steel (NACE)	N-200N-35-004-A06
C/L to Top (Open)	3 – 1/32 "		
C/L to Inlet / Outlet	1 – 27/32 " / 1 – 21/32 "		



Kerotest Needle and Gauge Valves

300 Gauge Valve

Features

- Forged Carbon Steel
- Teflon Packing (500 ° F Maximum)
- Integral Bonnet
- 10,000 PSI @ 100 ° F
- 416 Stainless Steel Stem
- Quality Construction



Ordering Code:

Part Number	Size	Rating	Material	End-to-End	C-L to Top (Open)	Handle	Weight
P-300N-35-004	1/2 " MxF	10,000 PSI	Carbon Steel	3 - 5/8 "	2 - 31/32 "	3 "	1.5 lb
P-300N-35-002	1/4 " MxF	10,000 PSI	Carbon Steel	2 - 1/2 "	2 - 9/16 "	3 "	1 lb

Union Bonnet Design (310N) Available on Request



Kerotest Needle and Gauge Valves

N20 In-Line Union Bonnet Needle Valve

Features

- Metal to Metal Back Seat
- Repack in Open or Closed Position
- Ideal Where Danger of Fire Exists
- Prevents Flow Media from Entering Atmosphere When Open (Back Seated) or in the Closed Position



DESCRIPTION	Carbon Steel	Stainless Steel
Body	ASTM-A108 Gr. 1213 ^{ac}	ASTM-A182 Type F316
Stem	ASTM-A582 Type 416	ASTM-A582 Type 303 ^d
Packing Nut	ASTM-A108 Gr. 1213 ^a	ASTM-A582 Type 303
Bonnet	ASTM-A108 Gr. 1213 ^a	ASTM-A276 Type 316
Packing Washer	AISI-C1010 ^a	18 – 8 Stainless Steel
Packing	Garlock 127 AFP UTEX Style 1303	Garlock 127 AFP UTEX Style 1303
Handle	Carbon Steel ^b	Carbon Steel ^b
Union Nut	ASTM-A108 Gr. 1213 ^a	ASTM-A582 Type 416
Handle Nut	Plated Steel	Plated Steel
a=Zinc Plated b=Yellow Zinc Plated c=A105 also available d=special trim available for sour gas service		
GRAFOIL packing available upon request		



Kerotest Needle and Gauge Valves

N20 In-Line Union Bonnet Needle Valve

Specifications:

- Female Pipe Ends per ANSI B1.20.1
- Socket Weld Ends per ANSI B16.11
- Max. Working Pressure 10,000 PSI @ 100 ° F
- Max. Temperature 750 ° F

Size	End-to-End	C/L to Top (Open)	Handle	Weight (lbs)
1/4 "	2 - 1/16 "	3 - 3/8 "	3 "	0.90
3/8 " and 1/2 "	2 - 1/2 "	3 - 9/16 "	3 "	1.25
3/4 "	3 "	4 - 5/32 "	4 "	2
1 "	3 - 3/4 "	4 - 5/32 "	4 "	3.30

Ordering Code:

Type		1/4" Part No.	3/8" Part No.	1/2" Part No.	3/4" Part No.	1" Part No.
Female-NPT	Carbon Steel	P-0N20-49-002	P-0N20-49-003	P-0N20-49-004	P-0N20-49-006	P-0N20-49-008
	316 Stainless	T-0N20-49-002	T-0N20-49-003	T-0N20-49-004	T-0N20-49-006	T-0N20-49-008
Socket Weld	Carbon Steel	P-0N20-96-002	P-0N20-96-003	P-0N20-96-004	P-0N20-96-006	P-0N20-96-008
	316 Stainless	T-0N20-96-002		T-0N20-96-004	T-0N20-96-006	T-0N20-96-008
For H₂S Service, Add -A07 to 316SS Part No.						



Kerotest Needle and Gauge Valves

N21 Angle Union Bonnet Needle Valve

Features

- Metal to Metal Back Seat
- Repack in Open or Closed Position
- Ideal Where Danger of Fire Exists
- Prevents Flow Media from Entering Atmosphere When Open (Back Seated) or in the Closed Position



DESCRIPTION	Carbon Steel	Stainless Steel
Body	ASTM-A108 Gr. 1213 ^{a,c}	ASTM-A182 Type F316
Stem	ASTM-A582 Type 416	ASTM-A582 Type 303 ^d
Packing Nut	ASTM-A108 Gr. 1213 ^a	ASTM-A582 Type 303
Bonnet	ASTM-A108 Gr. 1213 ^a	ASTM-A276 Type 316
Packing Washer	AISI-C1010 ^a	18 – 8 Stainless Steel
Packing	Garlock 127 AFP UTEX Style 1303	Garlock 127 AFP UTEX Style 1303
Handle	Carbon Steel ^b	Carbon Steel ^b
Union Nut	ASTM-A108 Gr. 1213 ^a	ASTM-A582 Type 416
Handle Nut	Plated Steel	Plated Steel
a=Zinc Plated b=Yellow Zinc Plated c=A105 also available d=special trim available for sour gas service		
GRAFOIL packing available upon request		



Kerotest Needle and Gauge Valves

N21 Angle Union Bonnet Needle Valve

Specifications:

- Female Pipe Ends per ANSI B1.20.1
- Socket Weld Ends per ANSI B16.11
- Max. Working Pressure 10,000 PSI @ 100 ° F
- Max. Temperature 750 ° F

Size	C/L to Inlet/Outlet	C/L to Top (Open)	Handle	Weight (lbs)
1/4 "	1 – 1/32 " / 1 – 1/32 "	3 -5/16 "	3 "	0.90
3/8 " and 1/2 "	1 – 1/4 " / 1 – 1/4 "	3 – 1/2 "	3 "	1.23
3/4 "	1 – 1/2 " / 1 – 1/2 "	4 – 5/32 "	4 "	1.95

Ordering Code:

Type		1/4" Part No.	3/8" Part No.	1/2" Part No.	3/4" Part No.
Female-NPT	Carbon Steel	P-0N21-49-002	P-0N21-49-003	P-0N21-49-004	P-0N21-49-006
	316 Stainless	T-0N21-49-002	T-0N21-49-003	T-0N21-49-004	T-0N21-49-006
Socket Weld	Carbon Steel	P-0N21-96-002	P-0N21-96-003	P-0N21-96-004	
	316 Stainless	T-0N21-96-002		T-0N21-96-004	



Kerotest Needle and Gauge Valves

N28 Integral Union Bonnet Needle Valve



DESCRIPTION	Carbon Steel	Stainless Steel
Body	ASTM-A108 Gr. 1213 ^a	ASTM-A182 Type 316
Stem	ASTM-A582 Type 416	ASTM-A582 Type 303
Packing Nut	ASTM-A108 Gr. 1213 ^a	ASTM-A582 Type 303
Panel Mount Nut	ASTM-A582 Type 303	N/A
Packing Washer	AISI-C1010 ^a	18 – 8 Stainless Steel
Packing	Virgin Teflon	Virgin Teflon
Handle	Carbon Steel ^b	Carbon Steel ^b
Handle Nut	Plated Steel	Plated Steel

a=Zinc Plated b=Yellow Zinc Plated

Specifications:

- Female Pipe Ends per ANSI B1.20.1
- Socket Weld Ends per ANSI B16.11
- Max. Working Pressure 10,000 PSI @ 100 ° F
- Max. Temperature 500 ° F

Size	End-to-End	C/L to Top (Open)	Handle	Weight (lbs)
1/4 "	2 – 1/16 "	2 – 9/16 "	3 "	0.81
3/8 " and 1/2 "	2 – 1/2 "	2 – 11/16 "	3 "	1.16
3/4 "	3 "	3 – 1/32 "	4 "	1.83
1 "	3 – 3/4 "	3 – 7/32 "	4 "	3.12

Ordering Code:

Type		1/4" Part No.	3/8" Part No.	1/2" Part No.	3/4" Part No.	1" Part No.
Female-NPT	Carbon Steel	P-0N28-49-002	P-0N28-49-003	P-0N28-49-004	P-0N28-49-006	P-0N28-49-008
	316 Stainless	T-0N28-49-002	T-0N28-49-003	T-0N28-49-004	T-0N28-49-006	T-0N28-49-008
Socket Weld	Carbon Steel	P-0N28-96-002		P-0N28-96-004	P-0N28-96-006	P-0N28-96-008



Kerotest Needle and Gauge Valves

N28 Soft Seated Needle Valve



DESCRIPTION	Carbon Steel
Body	ASTM-A108 Gr. 1213 ^a
Stem	ASTM-A582 Type 416
Packing Nut	ASTM-A108 Gr. 1213 ^a
Panel Mount Nut	ASTM-A582 Type 303
Packing Washer	AISI-C1010 ^a
Packing	Virgin Teflon
Handle	Carbon Steel ^b
Handle Nut	Plated Steel
a=Zinc Plated b=Yellow Zinc Plated	

Specifications:

- Female Pipe Ends per ANSI B1.20.1
- Socket Weld Ends per ANSI B16.11
- Max. Working Pressure 10,000 PSI @ 100 ° F
- Max. Temperature 275 ° F

Size	End-to-End	C/L to Top (Open)	Handle	Weight (lbs)
1/4 "	2 - 1/16 "	2 - 9/16 "	3 "	0.81
3/8 " and 1/2 "	2 - 1/2 "	2 - 11/16 "	3 "	1.16
3/4 "	3 "	3 - 1/32 "	4 "	1.83
1 "	3 - 3/4 "	3 - 7/32 "	4 "	3.12

Ordering Code:

Carbon Steel	1/4" Part No.	3/8" Part No.	1/2" Part No.	3/4" Part No.	1" Part No.
Female-NPT	P-0N28-49-002-A01	P-0N28-49-003-A01	P-0N28-49-004-A01	P-0N28-49-006-A01	P-0N28-49-008-A01



Kerotest Needle and Gauge Valves

N29 Angle Integral Bonnet Needle Valve



DESCRIPTION	Carbon Steel	Stainless Steel
Body	ASTM-A108 Gr. 1213 ^a	ASTM-A182 Type 316
Stem	ASTM-A582 Type 416	ASTM-A582 Type 303
Packing Nut	ASTM-A108 Gr. 1213 ^a	ASTM-A582 Type 303
Packing Washer	AISI-C1010 ^a	18 – 8 Stainless Steel
Packing	Virgin Teflon	Virgin Teflon
Handle	Carbon Steel ^b	Carbon Steel ^b
Handle Nut	Plated Steel	Plated Steel
a=Zinc Plated b=Yellow Zinc Plated		

Specifications:

- Female Pipe Ends per ANSI B1.20.1
- Socket Weld Ends per ANSI B16.11
- Max. Working Pressure 10,000 PSI @ 100 ° F
- Max. Temperature 500 ° F

Size	C/L to Inlet/Outlet	C/L to Top (Open)	Handle	Weight (lbs)
1/4 “	1 – 1/32 “ / 1 – 1/32 “	2 – 9/16 “	3 “	0.81
3/8 “ and 1/2 “	1 – 1/4 “ / 1 – 1/4 “	2 – 11/16 “	3 “	1.16
3/4 “	1 – 1/2 “ / 1 – 1/2 “	3 – 1/32 “	4 “	1.83

Ordering Code:

Carbon Steel	1/4" Part No.	3/8" Part No.	1/2" Part No.	3/4" Part No.
Female-NPT	P-0N29-49-002	P-0N29-49-003	P-0N29-49-004	P-0N29-49-006
Socket Weld	P-0N29-96-002	P-0N29-96-003	P-0N29-96-004	P-0N29-96-006

