



**Flanged End 285**



**Screwed Weld End**



**Locking Devices**



**Short Weld End**

# KEROTEST

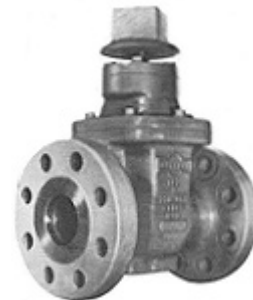
## Model-1 Natural Gas Valves



**Long Weld End**



**Weld x Flange 500 / 740**



**Flanged End 500 / 740**



**Weld x Flange 285**

# Model-1 Short Weld End Valve

## Natural Gas Valve

### Features

- Absolutely No Maintenance
- No Gland Tightening
- No Lubrication
- No Adjustment Of Any Kind
- Standard Welding Practices Apply
- Full Opening – No Significant Pressure Drop
- Lowest Operating Torque in The Industry
- Steel – Safety
- Directional Solidification Weld Ends Meeting Rigid Code requirements
- Seat Test @ 110% of Rated Pressure, Shell Test @ 150% of Rated Pressure
- Patented Packing – No Environmental Leaking
- Back Seat – Full Containment Of Pressure Below Packing – No Environmental Leakage
- Patented Design



### Specifications

- 2 Inch Operation Square Malleable Iron
- Buna “N” “O” Rings And “V” Rings
- Brass Packing Actuator
- Steel Packing Gland Cover
- Steel Bonnet ASTM A-216 Grade WCB
- Stainless Steel Stem
- Alloy Steel Cap Screws – ASTM A-574
- Soft Iron Bonnet Gasket (Refinery Gasket – Fire Proof)
- Steel Body – ASTM A-216 Grade WCB

### Ordering Code Table - 285 PSI

Size (in)	Valve No.	Pressure		Approx. Weight
		150 ANSI	285 MOP	
2	1WS2	150 ANSI	285 MOP	24 lb
3	1WS2	150 ANSI	285 MOP	36 lb
4	1WS2	150 ANSI	285 MOP	50 lb
6	1WS2	150 ANSI	285 MOP	101 lb

NOTE: Valves built prior to July 10, 2006 have Class 150 API, 275 MOP rating.

### Ordering Code Table - 500/740 PSI

Size (in)	Valve No.	Pressure		Weight
		300 ANSI	740 MOP	
1	1SO7	300 ANSI	740 MOP	9 lb
1	1WS7	300 ANSI	740 MOP	9 lb
1-1/4	1WS7	300 ANSI	740 MOP	9 lb
2	1WS5		500 WOG	24 lb
3	1WS5		500 WOG	35 lb
4	1WS5		500 WOG	50 lb
6	1WS5		500 WOG	101 lb

NOTE: Valves built prior to July 10, 2006 have Class 300 API, 720 MOP rating.

### Dimensions

Size (in)	End to End (in)	C/L to Top (inches)	Number of Turns	Temp (Fahr)
1-1/4	5	6-3/4	5-3/4	- 30 degrees to 200 degrees
2	7	8-3/4	7-1/4	
3	8	10-7/16	10-1/4	
4	9	12-11/16	13-1/4	
6	10-1/2	16-7/16	19-3/4	

Note: Bonnet material malleable iron on sizes 2 inch thru 6 inch  
Bonnet material steel on sizes 1 and 1-1/4 inches.



SINCE 1909

[www.kerotest.com](http://www.kerotest.com)

### Kerotest Manufacturing Corp.

5500 Second Avenue  
Pittsburgh, PA 15207

Phone: 412-521-7263 Fax: 412-521-5990

# Model-1 Long Weld End Valve

## Natural Gas Valve

### Ordering Code Table for 740 PSI

### Features

- Absolutely No Maintenance
- No Gland Tightening
- No Lubrication
- No Adjustment Of Any Kind
- Standard Welding Practices Apply
- Full Opening – No Significant Pressure Drop
- Lowest Operating Torque in The Industry
- Steel – Safety
- Directional Solidification Weld Ends Meeting Rigid Code requirements
- Seat Test @ 110% of Rated Pressure, Shell Test @ 150% of Rated Pressure
- Patented Packing – No Environmental Leaking
- Back Seat – Full Containment Of Pressure Below Packing – No Environmental Leakage
- Patented Design



Size (in)	Valve No.	Pressure		Approx. Weight
		300 ANSI	740 MOP	
1*	1WS7	300 ANSI	740 MOP	9 lb
1-1/4	1WS7	300 ANSI	740 MOP	9 lb
2	1WS7	300 ANSI	740 MOP	24 lb
3	1WS7	300 ANSI	740 MOP	36 lb
3	1WL7	300 ANSI	740 MOP	58 lb
4	1WL7	300 ANSI	740 MOP	74 lb
6	1WL7	300 ANSI	740 MOP	130 lb
8	1WL7	300 ANSI	740 MOP	210 lb
10	1WL7	300 ANSI	740 MOP	390 lb
12	1WL7	300 ANSI	740 MOP	535 lb
16	1WL7	300 ANSI	740 MOP	1505 lb

\* 1 inch in Socket Weld Ends

NOTE: Valves built before July 10, 2006 have Class 300 API, 720 MOP rating.

### Specifications

- 2 Inch Operation Square Malleable Iron
- Buna "N" "O" Rings And "V" Rings
- Brass Packing Actuator
- Steel Packing Gland Cover
- Steel Bonnet ASTM A-216 Grade WCB
- Stainless Steel Stem
- Alloy Steel Cap Screws – ASTM A-574
- Soft Iron Bonnet Gasket (Refinery Gasket – Fire Proof)
- Steel Body – ASTM A-216 Grade WCB

### Dimensions:

Size (in)	End to End (in)	C/L to Top (in)	Number of Turns	Temp (Fahr)
1*	5	6	5-3/4	- 30 degrees to 200 degrees
1-1/4	5	6	5-3/4	
2	7	8-3/4	7-1/4	
3**	8	10-7/16	10-1/4	
3	11-1/8	10-7/16	10-1/4	
4	12	12-11/16	13-1/4	
6	15-7/8	16-7/16	19-3/4	
8	16-1/2	20-1/4	26-1/4	
10	18	27	21-3/4	
12	19-3/4	30-3/4	25-3/4	
16	33	41-3/8	69	

\* 1 inch in socket weld only

\*\* Short Weld End



SINCE 1909

[www.kerotest.com](http://www.kerotest.com)

### Kerotest Manufacturing Corp.

5500 Second Avenue

Pittsburgh, PA 15207

Phone: 412-521-7263

Fax: 412-521-5990

# Model-1 Screwed End Valve

## Natural Gas Valve

### Features

- Absolutely No Maintenance
- No Gland Tightening
- No Lubrication
- No Adjustment Of Any Kind
- Full Opening – No Significant Pressure Drop
- Lowest Operating Torque in The Industry
- Steel – Safety
- Seat Test @ 110% of Rated Pressure, Shell Test @ 150% of Rated Pressure
- Patented Packing – No Environmental Leaking
- Back Seat – Full Containment Of Pressure Below Packing – No Environmental Leakage
- Patented Design



### Ordering Code Table

Size (in)	Valve No.	Pressure		Approx. Weight
2	1S5		500 WOG	27 lb
2	1S7	300 ANSI	740 MOP	27 lb

NOTE: Valves built before July 10, 2006 have Class 300 API, 720 MOP rating.

### Specifications

- 2 Inch Operation Square Malleable Iron
- Buna “N” “O” Rings And “V” Rings
- Brass Packing Actuator
- Steel Packing Gland Cover
- Steel Bonnet ASTM A-216 Grade WCB
- Stainless Steel Stem
- Alloy Steel Cap Screws – ASTM A-574
- Soft Iron Bonnet Gasket (Refinery Gasket – Fire Proof)
- Threads – Female Pipe Threads Per ANSI B21
- Steel Body – ASTM A-216 Grade WCB

### Dimensions:

Size (in)	End to End (in)	C/L to Top (in)	Number of Turns	Temperature (Fahrenheit)
2	6-3/4	8-3/4	7-1/4	- 30 degrees to 200 degrees



SINCE 1909

[www.kerotest.com](http://www.kerotest.com)

### Kerotest Manufacturing Corp.

5500 Second Avenue

Pittsburgh, PA 15207

Phone: 412-521-7263

Fax: 412-521-5990

# Model-1 Weld By Flange – 285 MOP

## Natural Gas Valve

### Features

- Absolutely No Maintenance
- No Gland Tightening
- No Lubrication
- No Adjustment Of Any Kind
- Standard Welding Practices Apply
- Full Opening – No Significant Pressure Drop
- Lowest Operating Torque in The Industry
- Steel – Safety
- Directional Solidification Weld Ends Meeting Rigid Code requirements
- Seat Test @ 110% of Rated Pressure, Shell Test @ 150% of Rated Pressure
- Patented Packing – No Environmental Leaking
- Back Seat – Full Containment Of Pressure Below Packing – No Environmental Leakage
- Patented Design



### Specifications

- 2 Inch Operation Square Malleable Iron
- Buna “N” “O” Rings And “V” Rings
- Brass Packing Actuator
- Steel Packing Gland Cover
- Steel Bonnet ASTM A-216 Grade WCB
- Stainless Steel Stem
- Alloy Steel Cap Screws – ASTM A-574
- Soft Iron Bonnet Gasket (Refinery Gasket – Fire Proof)
- Steel Body – ASTM A-216 Grade WCB

### Ordering Code Table for 285 PSI

Size(in)	Valve No.	Pressure		Approx. Weight
		150 ANSI	285 MOP	
2	1F2WL	150 ANSI	285 MOP	30 lb
3	1F2WL	150 ANSI	285 MOP	45 lb
4	1F2WL	150 ANSI	285 MOP	65 lb
6	1F2WL	150 ANSI	285 MOP	120 lb
8	1F2WL	150 ANSI	285 MOP	225 lb
10	1F2WL	150 ANSI	285 MOP	467 lb
12	1F2WL	150 ANSI	285 MOP	612 lb
16	1F2WL	150 ANSI	285 MOP	1815 lb

\* Flat face flanges available on request  
 NOTE: Valves built before July 10, 2006 have Class 150 API, 275 MOP rating.

### Dimensions

Size(in)	End to End(in)	C/L to Top(in)	Number of Turns	Temp(Fahr)
2	7-3/4	8-3/4	7-1/4	- 30 degrees to 200 degrees
3	9-9/16	10-7/16	10-1/4	
4	10-1/2	12-11/16	13-1/4	
6	13-3/16	16-7/16	19-3/4	
8	14	20-1/4	26-1/4	
10*	18	27	21-3/4	
12*	19-3/4	30-3/4	25-3/4	
16*	33	41-3/8	69	

\* 300 ANSI flanges drilled to 150 ANSI flange specifications



### Kerotest Manufacturing Corp.

5500 Second Avenue  
 Pittsburgh, PA 15207

Phone: 412-521-7263 Fax: 412-521-5990

# Model-1 Weld By Flange – 500 WOG / 740 MOP Natural Gas Valve

## Features

- Absolutely No Maintenance
- No Gland Tightening
- No Lubrication
- No Adjustment Of Any Kind
- Standard Welding Practices Apply
- Full Opening – No Significant Pressure Drop
- Lowest Operating Torque in The Industry
- Steel – Safety
- Directional Solidification Weld Ends Meeting Rigid Code requirements
- Seat Test @ 110% of Rated Pressure, Shell Test @ 150% of Rated Pressure
- Patented Packing – No Environmental Leaking
- Back Seat – Full Containment Of Pressure Below Packing – No Environmental Leakage
- Patented Design



## Specifications

- 2 Inch Operation Square Malleable Iron
- Buna “N” “O” Rings And “V” Rings
- Brass Packing Actuator
- Steel Packing Gland Cover
- Steel Bonnet ASTM A-216 Grade WCB
- Stainless Steel Stem
- Alloy Steel Cap Screws – ASTM A-574
- Soft Iron Bonnet Gasket (Refinery Gasket – Fire Proof)
- Steel Body – ASTM A-216 Grade WCB

## Ordering Code Table for 500 PSI

Size (in)	Valve No.	Pressure	Approx. Weight
2	1F5WL	500 WOG	32 lb
3	1F5WL	500 WOG	58 lb
4	1F5WL	500 WOG	78 lb
6	1F5WL	500 WOG	146 lb

## Ordering Code Table for 740 PSI

Size (in)	Valve No.	Pressure		Approx. Weight
2	1F7WL	300 ANSI	740 MOP	32 lb
3	1F7WL	300 ANSI	740 MOP	59 lb
4	1F7WL	300 ANSI	740 MOP	84 lb
6	1F7WL	300 ANSI	740 MOP	160 lb
8	1F7WL	300 ANSI	740 MOP	264 lb
10	1F7WL	300 ANSI	740 MOP	467 lb
12	1F7WL	300 ANSI	740 MOP	612 lb
16	1F7WL	300 ANSI	740 MOP	1815 lb

NOTE: Valves built before July 10, 2006 have Class 300 API, 720 MOP rating.

## Dimensions

Size (in)	End to End (in)	C/L to Top (in)	Number of Turns	Temp (Fahr)
2	8-1/2	8-3/4	7-1/4	- 30 degrees to 200 degrees
3	11-1/8	10-7/16	10-1/4	
4	12	12-11/16	13-3/4	
6	15-7/8	16-7/16	19-3/4	
8	16-1/2	20-1/4	26-1/4	
10	18	27	21-3/4	
12	19-3/4	30-3/4	25-3/4	
16	33	41-3/8	69	

Higher temperature packing available on request.



## Kerotest Manufacturing Corp.

5500 Second Avenue  
Pittsburgh, PA 15207

Phone: 412-521-7263 Fax: 412-521-5990

# Model-1 Flanged End – 285 MOP

## Natural Gas Valve

### Features

- Absolutely No Maintenance
- No Gland Tightening
- No Lubrication
- No Adjustment Of Any Kind
- Standard Welding Practices Apply
- Full Opening – No Significant Pressure Drop
- Lowest Operating Torque in The Industry
- Steel – Safety
- Seat Test @ 110% of Rated Pressure, Shell Test @ 150% of Rated Pressure
- Patented Packing – No Environmental Leaking
- Back Seat – Full Containment Of Pressure Below Packing – No Environmental Leakage
- Patented Design



### Ordering Code Table for 285 PSI

Size (in)	Valve No.	Pressure		Approx. Weight
		150 ANSI	285 MOP	
2	1F2	150 ANSI	285 MOP	35 lb
3	1F2	150 ANSI	285 MOP	55 lb
4	1F2	150 ANSI	285 MOP	80 lb
6	1F2	150 ANSI	285 MOP	135 lb
8	1F2	150 ANSI	285 MOP	245 lb
10	1F2	150 ANSI	285 MOP	530 lb
12	1F2	150 ANSI	285 MOP	745 lb
16	1F2	150 ANSI	285 MOP	2035 lb

\* Flat face flanges available on request  
 NOTE: Valves built before July 10, 2006 have Class 150 API, 275 MOP rating.

### Specifications

- 2 Inch Operation Square Malleable Iron
- Buna “N” “O” Rings And “V” Rings
- Brass Packing Actuator
- Steel Packing Gland Cover
- Steel Bonnet ASTM A-216 Grade WCB
- Stainless Steel Stem
- Alloy Steel Cap Screws – ASTM A-574
- Soft Iron Bonnet Gasket (Refinery Gasket – Fire Proof)
- Steel Body – ASTM A-216 Grade WCB



### Dimensions

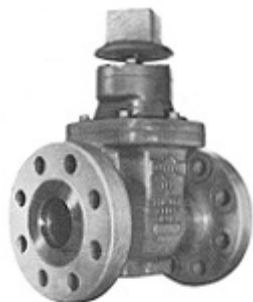
Size (in)	End to End (in)	C/L to Top (in)	Number of Turns	Temp (Fahr)
2	7	8-3/4	7-1/4	- 30 degrees to 200 degrees
3	8	10-7/16	10-1/4	
4	9	12-11/16	13-1/4	
6	10-1/2	16-7/16	19-3/4	
8	11-1/2	20-1/4	26-1/4	
10*	18	27	21-3/4	
12*	19-3/4	30-3/4	25-3/4	
16*	33	41-3/8	69	

\* 300 ANSI flanges drilled to 150 ANSI flange specifications

# Model-1 Flanged End – 500 WOG / 740 MOP Natural Gas Valve

## Features

- Absolutely No Maintenance
- No Gland Tightening
- No Lubrication
- No Adjustment Of Any Kind
- Full Opening – No Significant Pressure Drop
- Lowest Operating Torque in The Industry
- Steel – Safety
- Seat Test @ 110% of Rated Pressure, Shell Test @ 150% of Rated Pressure
- Patented Packing – No Environmental Leaking
- Back Seat – Full Containment Of Pressure Below Packing – No Environmental Leakage
- Patented Design



## Specifications

- 2 Inch Operation Square Malleable Iron
- Buna “N” “O” Rings And “V” Rings
- Brass Packing Actuator
- Steel Packing Gland Cover
- Steel Bonnet ASTM A-216 Grade WCB
- Stainless Steel Stem
- Alloy Steel Cap Screws – ASTM A-574
- Soft Iron Bonnet Gasket (Refinery Gasket – Fire Proof)
- Steel Body – ASTM A-216 Grade WCB

## Ordering Code Table for 500 PSI

Size (in)	Valve No.	Pressure	Approx. Weight
2	1F5	500 WOG	40 lb
3	1F5	500 WOG	40 lb
4	1F5	500 WOG	102 lb
6	1F5	500 WOG	182 lb

## Ordering Code Table for 740 PSI

Size (in)	Valve No.	Pressure		Approx. Weight
2	1F7	300 ANSI	740 MOP	41 lb
3	1F7	300 ANSI	740 MOP	72 lb
4	1F7	300 ANSI	740 MOP	114 lb
6	1F7	300 ANSI	740 MOP	198 lb
8	1F7	300 ANSI	740 MOP	310 lb
10	1F7	300 ANSI	740 MOP	530 lb
12	1F7	300 ANSI	740 MOP	745 lb
16	1F7	300 ANSI	740 MOP	2035 lb

NOTE: Valves built before July 10, 2006 have Class 300 API, 720 MOP rating.

## Dimensions:

Size (inches)	End to End (inches)	C/L to Top (inches)	Number of Turns	Temperature (Fahrenheit)
2	8-1/2	8-3/4	7-1/4	- 30 degrees to 200 degrees
3	11-1/8	10-7/16	10-1/4	
4	12	12-11/16	13-3/4	
6	15-7/8	16-7/16	19-3/4	
8	16-1/2	20-1/4	26-1/4	
10	18	27	21-3/4	
12	19-3/4	30-3/4	25-3/4	
16	33	41-3/8	69	



## Kerotest Manufacturing Corp.

5500 Second Avenue  
Pittsburgh, PA 15207

Phone: 412-521-7263 Fax: 412-521-5990



# Locking Devices

For use with the Kerotest Natural Gas Valves which feature non-rising stems. EV-11 locking devices are also available.

## Features

- Easy to install
- Patented Design

Ordering Code Table	
Size(inches)	Part Number
1 – 4	72590763
6 – 8	72590771
10 - 12	72546204
16	72546186



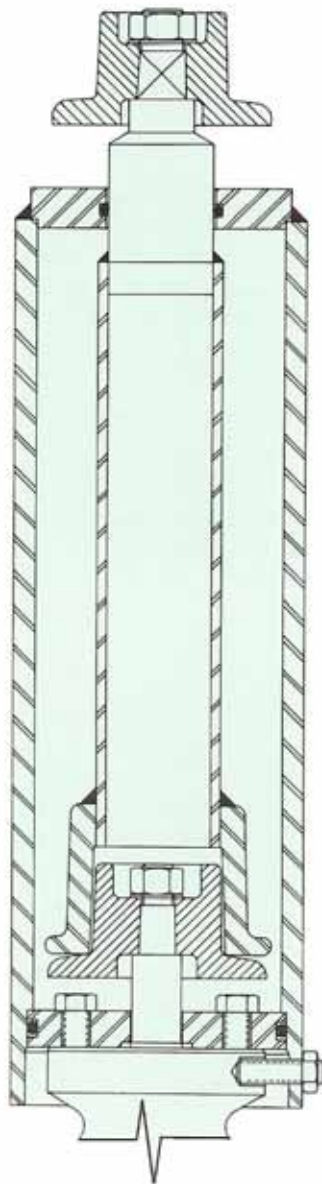
## Kerotest Manufacturing Corp.

5500 Second Avenue  
Pittsburgh, PA 15207

Phone: 412-521-7263 Fax: 412-521-5990

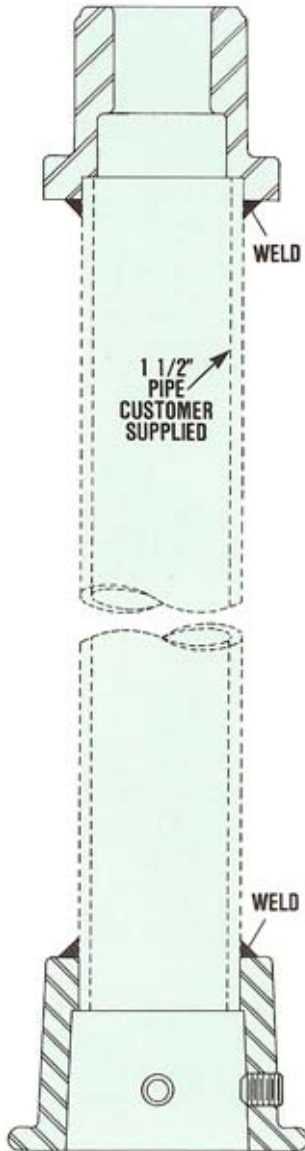
# Model-1 Accessories

## Natural Gas Valve



### Watertight High Head Extension

Kerotest offers a wide variety of watertight extensions custom built to your specifications. Can be factory mounted or field mounted on existing valves. Ideal for high water table areas or excessively deep pipe lines. Options include locking devices, handwheels, indicators, bevel gear operators, epoxy coatings and electric actuators.



### Operating Square Extension

**Part Number**  
**9898-35 Top**  
**9898-34 Bottom**



### Model-1 Malleable Iron Circular Handwheels

Catalog No.	Size	Diameter
2-1/2-23-5	2"	9"
4-1-5	3" & 4"	12"
6-1-5	6"	14"
8-1-5	8"	16"
10-1-5	10" & 12"	18"

### Epoxy Coated Kerotest Valves

Kerotest offers valves precoated with "SCOTCHKOTE" Brand Resin, manufactured by the 3M Company. These valves have been engineered specifically for the industry and now are available with an industry accepted and proven coating - "SCOTCHKOTE" Resin.

The epoxy resin features high adhesion, coating toughness and excellent resistance to a wide variety of chemicals, and most acids and alkalis found in the soil. Coating is applied with commercial spray equipment to an average 9 mil dry film thickness.

### Special Options

Body Bleed Taps  
 Vent Pipes  
 Viton Packing

### "SCOTCHKOTE" No. 306 Typical Properties

Properties	Test Methods	Value
Adhesion to Steel	3M	2300 PSI (161 Kg/Cm <sup>2</sup> )
Shear Adhesion	3M 4'x4' Coated	3300 PSI (232 Kg/Cm <sup>2</sup> )
Thermal Shock	Panel 310° F to -100° F (154° C to -38° C)	10 Cycles No Effect
Salt Spray 2000 hr	ASTM B-117-61	No Effect
Fungus Resistance	MIL-E-5272C	Funginert
Weatherometer 1000 hours	ASTM E-42-57	Surface Chalking
Outdoor Weathering	Sugarland, Texas 4 years	Surface Chalking
Flame Resistance Maximum	MIL-1-16923E	Self-extinguishing Wet 140° F (60° C) Dry 250° F (120° C)
Operating Range		



[www.kerotest.com](http://www.kerotest.com)

## Kerotest Manufacturing Corp.

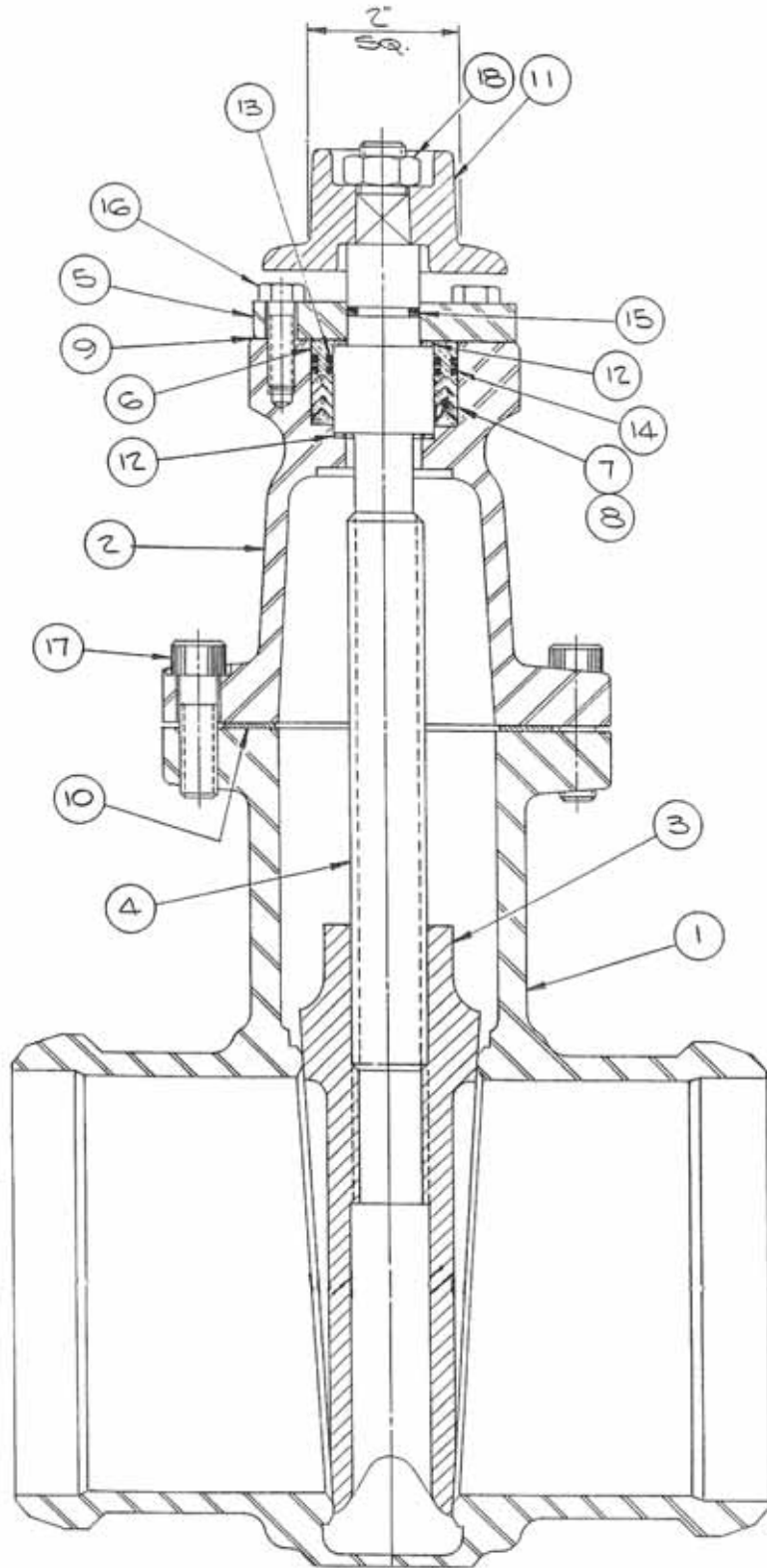
5500 Second Avenue

Pittsburgh, PA 15207

Phone: 412-521-7263 Fax: 412-521-5990

# Model-1 Drawing

## Natural Gas Valve



# Model-1 Gate Valve Bill of Material

## Natural Gas Valve

Item Number	Name of Part	Qty Per	Description of Material
1	Body	1	Cast Steel, ASTM A216, GR. WCB
2	Cover	1	Cast Steel, ASTM A216, GR. WCB
3	Wedge	1	Cast Iron, ASTM A216, GR. B
4	Stem	1	Stainless Steel, ASTM A581 or A582, Type 416 or 410
5	Gland	1	Carbon Steel
6	Packing Adapter	1	Brass
7	Packing Set	1	Buna N
8	Packing Shim	2	Compressed Fiber
9	Gland Gasket	1	Compressed Fiber
10	Cover Gasket	1	Corrugated Steel
11	Operating Square	1	Cast Ductile Iron, ASTM A536, GR. 65-45-12
12	Thrust Washer	2	Brass, SAE 706
13	O-Ring	2	Buna N
14	O-Ring	2	Buna N
15	O-Ring	1	Buna N
16	Hex. Hd. Cap Screw	?	Steel, SAE GR. 5
17	Hex. Socket Hd. Cap Screw	?	Steel, ASTM A574
18	Hex. Nut	1	Steel, Zinc Plated
19	Drive Screw	4	Stainless Steel
20	Rating Tag	1	18-8 Stainless Steel
21	Nameplate	1	18-8 Stainless Steel

? = Quantity Varies Based On Size



**Kerotest Manufacturing Corp.**  
5500 Second Avenue  
Pittsburgh, PA 15207  
Phone: 412-521-7263 Fax: 412-521-5990

# Kerotest Gate Valves

## Standardized Weld Ends

For approximately the last 17 years, Kerotest has provided standardized weld ends on all its gate valves. These weld ends are compatible with a range of pipe wall thicknesses as shown on the following chart.

The standardized weld end dimensions we utilize fall within the requirements outlined in ASME B31.8, Appendix 1, 1995 Edition. This standard allows for a mismatch of the inside diameter of adjoining pipe or valve weld ends of  $\pm 3/32$  inches or .093.

WALL THICKNESS RANGE PER ANSI B31.8				
NOMINAL SIZE	VALVE	VALVE END BORE	USABLE PIPE WALL RANGE	
			MINIMUM	MAXIMUM
2"	MODEL-1 / EV-11	2.063	.067	.245
3"	MODEL-1 / EV-11	3.113	.105	.282
4"	MODEL-1 / EV-11	4.100	.111	.289
6"	MODEL-1	6.125	.161	.339
6"	EV-11	6.145	.151	.329
8"	MODEL-1 / EV-11	8.094	.177	.354
10"	MODEL-1	10.166	.203	.381
10"	EV-11	10.125	.224	.401
12"	MODEL-1	12.156	.208	.386
12"	EV-11	12.125	.224	.401
16"	MODEL-1	15.375	.224	.401



**Kerotest Manufacturing Corp.**

5500 Second Avenue

Pittsburgh, PA 15207

Phone: 412-521-7263 Fax: 412-521-5990