

AMERICAN FLOW CONTROL 14"-66" SERIES 2500 RESILIENT WEDGE GATE VALVE



AMERICAN

FLOW CONTROL

THE RIGHT WAY

CONSTRUCTION

DUCTILE IRON OPERATING NUT

Provides strength
and durability.

LIFTING DEVICES 14"- 66"

Valve is constructed of
high-strength ductile
iron with integral lifting
devices. This allows the
valve to be handled
without having to lift the
valve by the operating
nut, which could cause
damage to the valve stem.

BEVEL GEAR - SPUR GEAR

For horizontal installation in
buried service use Bevel Gear.
Use Spur Gear for vertical
installation.

STAINLESS STEEL NUTS AND BOLTS

Helps provide additional
corrosion resistance.

EPOXY COATING INSIDE AND OUT

Helps ensure corrosion
resistance for longer service
life.

DUCTILE IRON WEDGE IS FULLY ENCAPSULATED WITH EPDM RUBBER

Helps ensure zero leakage
with low stem torques.

DUCTILE IRON CONSTRUCTION

Greater strength, durability,
and lighter weight than gray
iron construction. 250 psig
rating.

SMOOTH OVERSIZED WATERWAY

Helps reduce pumping costs

CAST FLATS

Allow the valve to
stand upright during
storage or installation.

FEATURES

AMERICAN Flow Control's 14 in.-66 in. Series 2500 Ductile Iron Resilient Wedge Gate Valves are suitable for use in potable water, sewage and fire protection systems. These valves have a rated working pressure of 250 psig with zero leakage. The waterway is clear and unobstructed.

ADVANTAGES OVER BUTTERFLY VALVES

- No disc in waterway to restrict flow or to increase pumping costs.
- Allows passage of pigging devices.
- Internal parts can be serviced without cutting valve out of pipeline.
- 250 psig rating provides for future pressure increases over the 150 psig pressure rating found on most butterfly valves.

ADVANTAGES OVER DOUBLE DISC GATE VALVES

- Zero allowable leakage.
- Lower torque requirements to operate valve.
- 250 psig pressure rating compared to the 150 psig rating found on double disc gate valves.
- Epoxy coated inside and out.
- Lighter total valve weight.
- Single gate construction. Double disc gate valves have multiple parts that can seize together.
- Bypasses and rollers, tracks and scrapers are not needed.

The 14"-66" Series 2500 Resilient Wedge Gate Valves have these standard features:

- 250 psig rating
- Ductile iron construction
- Triple O-ring stem seals
- Valve is Certified to NSF/ANSI Standard 61-G
- Thrust washers
- Epoxy coating inside and out
- Zero leakage
- Optional gearing (Standard on 30 in. and larger)
- Ductile iron wedge fully encapsulated with EPDM rubber
- Available 16 in.-60 in. Flex Ring boltless restrained joint
- Cast flats on valve body so valve stands upright for storage or during installation
- Bypass available at additional cost

BENEFITS

DUCTILE IRON CONSTRUCTION

The ductile iron body and bonnet provide superior strength and allow a pressure rating of 250 psig. The strength of ductile iron is double that provided by gray iron. This added strength and higher pressure rating are provided in a compact, lighter design.

TRIPLE O-RING STEM SEALS

Sealing the lubrication chamber is a series of three O-ring stem seals. The O-rings help isolate the lubrication chamber.

EPOXY COATING

The 14 in.-66 in. Series 2500 valves are epoxy coated both on the interior as well as the exterior of the valve. The coating is applied after the valve body is shot-blasted clean. The coating is applied to all ferrous surfaces so that even the bolt holes and body-to-bonnet flange surfaces are fully epoxy coated.

SPECIFICATIONS

Valves 14 in.-66 in. shall be resilient wedge type rated for 250 psig cold water working pressure. All cast ferrous components shall be ductile iron, ASTM A536. Valves 14 in. - 66 in. shall meet or exceed all applicable requirements of ANSI/AWWA C515. The words "Ductile Iron" or "D.I." shall be cast on the valve. The wedge shall be constructed of ductile iron fully encapsulated with EPDM rubber.

The wedge shall be symmetrical and seal equally well with flow in either direction. Wedge guides shall be equipped with male guide covers. The use of auxiliary bronze rollers and plow-style shoes are not acceptable. The wedge nut shall be independent of the wedge and held in place on three sides by the wedge to prevent possible misalignment. Valves 16 in. and larger shall be furnished with spur gears for vertical installations and bevel gears for horizontal installations.

LIFTING DEVICES 14"-66"

Stuffing box is constructed of high-strength ductile iron with integral lifting device. This allows the valve to be handled without having to lift the valve by the operating nut. 42 in.-66 in. valves have integrally cast lifting lugs.

THRUST WASHERS

Thrust washers are located above and below the stem collar to reduce operating input torque and assist in trouble-free operation of the valve.

NO FLAT GASKETS

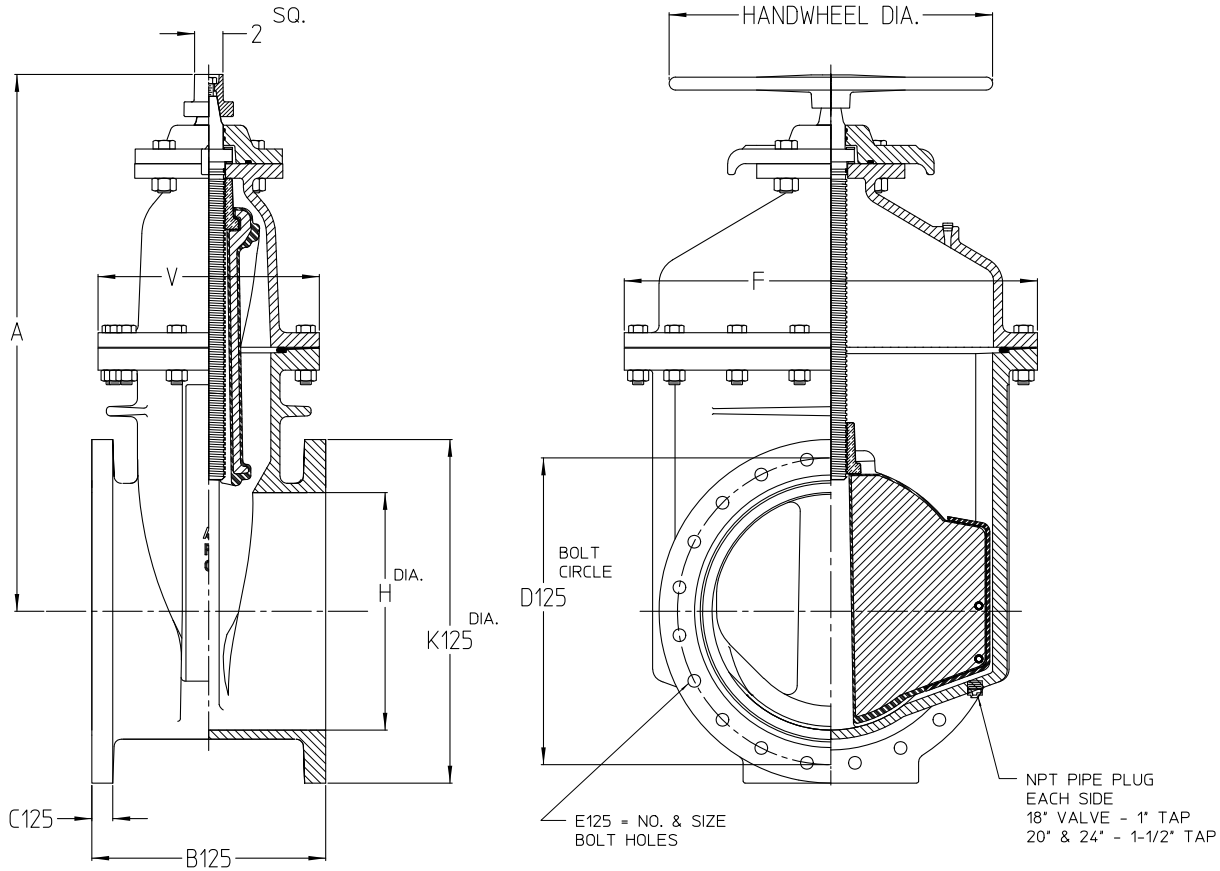
The stuffing box gasket and throat flange gasket are pressure-energized rubber O-rings. This provides a seal without the need for excessive bolt loading as is required of flat gaskets.

Valves shall be Certified to NSF/ANSI Standard 61.

Body bolting material shall be 304 stainless steel unless otherwise specified. Bolts may have either regular square or hexagonal shaped heads with dimensions conforming to ANSI B18.2.1. Metric size and/or socket head cap screws, or bolts, are not allowed. The operating nut shall be constructed of ductile iron. All gaskets shall be pressure energized O-ring type seals. Stem shall be sealed by three O-rings. O-rings set in a cartridge shall not be allowed. The valve shall have thrust washers located with 1 above and 1 below the thrust collar to assist operation of the valve. All internal and external surfaces of the valve body and bonnet shall have an epoxy coating, complying with ANSI/AWWA C550. Valves shall be AMERICAN Flow Control's **Series 2500 Resilient Wedge Gate Valve**.

DIMENSIONS

14"-24" Class 125 Flanged Ends



| Size | A | B125 | C125 | D125 | E125 | F | K125 | H | V | Handwheel Diameter | Turns | Approx. Weight |
|------|--------|------|---------|--------|------------|--------|--------|--------|--------|--------------------|-------|----------------|
| 14" | 33-1/4 | 15 | 1-3/8 | 18-3/4 | 12 - 1-1/8 | 26 | 21 | 14-1/8 | 13-1/2 | 20 | 44 | 670 lbs. |
| 16" | 36-3/4 | 16 | 1-7/16 | 21-1/4 | 16 - 1-1/8 | 28-1/4 | 23-1/2 | 16-1/4 | 15-1/8 | 20 | 50 | 820 lbs. |
| 18" | 39-5/8 | 17 | 1-9/16 | 22-3/4 | 16 - 1-1/4 | 32 | 25 | 18-1/8 | 15 | 20 | 56 | 1100 lbs. |
| 20" | 43-1/4 | 18 | 1-11/16 | 25 | 20 - 1-1/4 | 34-1/2 | 27-1/2 | 20-1/8 | 16-1/4 | 28 | 62 | 1520 lbs. |
| 24" | 51-1/4 | 20 | 1-7/8 | 29-1/2 | 20 - 1-3/8 | 39 | 32 | 24-1/8 | 17-3/4 | 28 | 76 | 2300 lbs. |

NOTES:

1. Bolt patterns of Class 125 flanged ends are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125).
2. Standard internal and external coating is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Working pressure is 250 psig.
6. Valve meets requirements of ANSI/AWWA C515 where applicable.
4. Valve is Certified to NSF/ANSI Standard 61-G.
5. 14 in.-16 in. valves may be ordered in configurations that are UL Listed FM Approved and have 200 psig rated working pressure.
6. 18 in.-24 in. valves may be ordered in configurations that are UL Listed and have 175 psig rated working pressure.

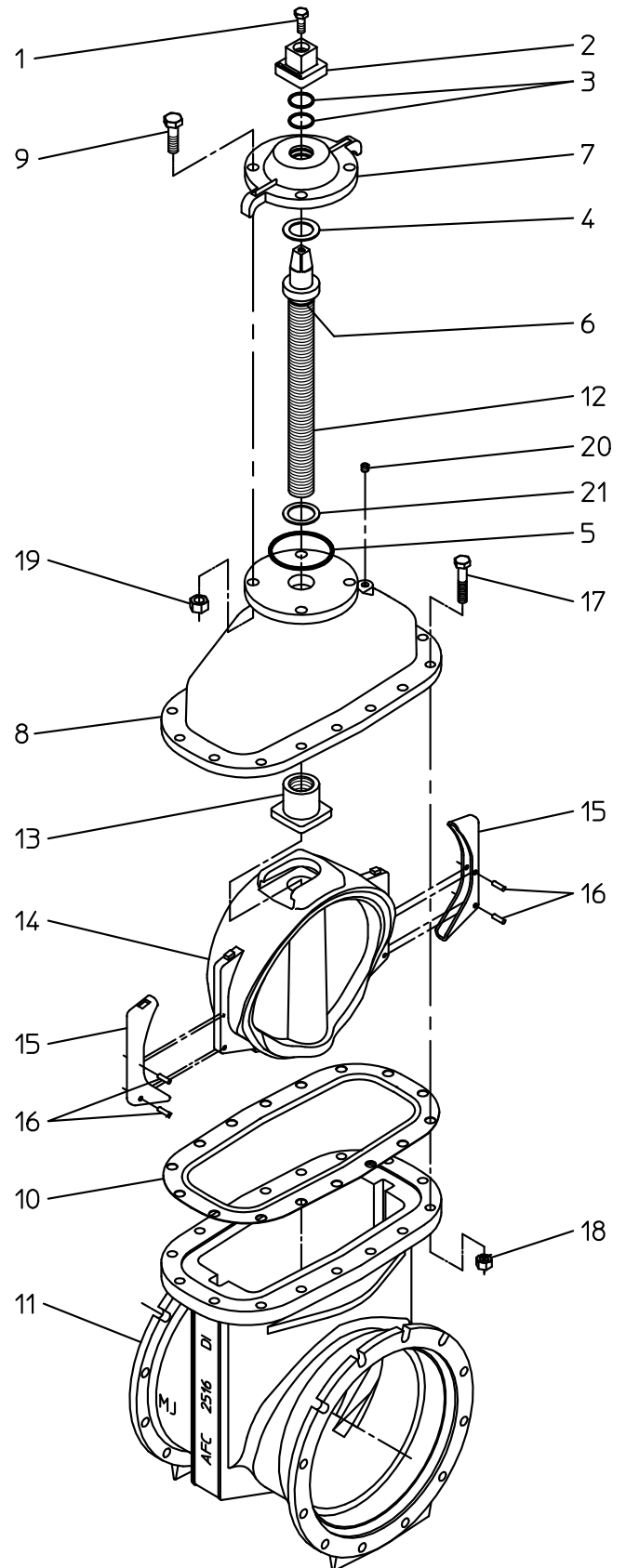
See pages 19 and 20 for other end configurations.

Standard NRS Parts List, 14"-24" Sizes

PARTS LIST

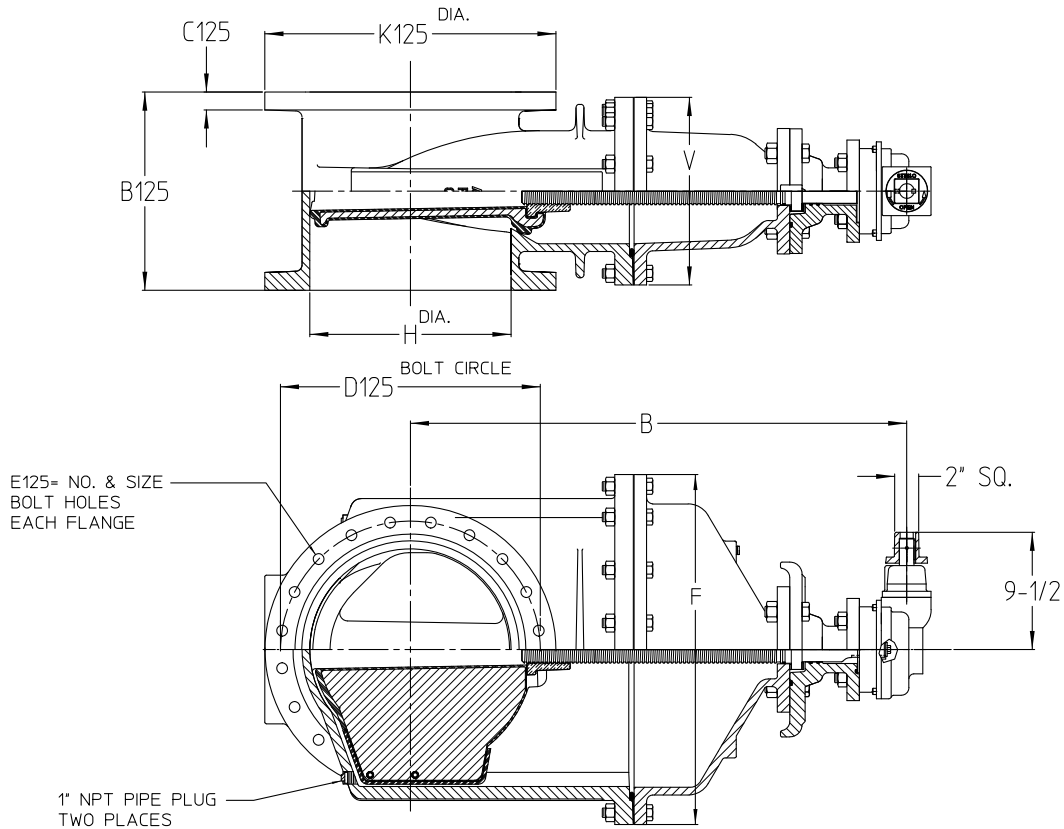
| Ref | Description | Material |
|-----|----------------------|-----------------------------------|
| 1 | Hex head bolt | 304 Stainless steel |
| 2 | Wrench nut | Ductile iron ASTM A536 |
| 3 | O-ring | Rubber |
| 4 | Upper thrust washer | Delrin |
| 5 | Stuffing box gasket | Rubber O-ring |
| 6 | O-ring | Rubber |
| 7 | Stuffing box | Ductile iron ASTM A536 |
| 8 | Bonnet | Ductile iron ASTM A536 |
| 9 | Hex head bolt | 304 Stainless steel |
| 10 | Throat flange gasket | Rubber |
| 11 | Valve body | Ductile iron ASTM A536 |
| 12 | Stem | Bronze (Stainless steel optional) |
| 13 | Wedge nut | Bronze |
| 14 | Resilient wedge | Ductile iron with EPDM rubber |
| 15 | Wedge cover | Polymer |
| 16 | Wedge cover pin | Polymer |
| 17 | Hex head bolt | 304 Stainless steel |
| 18 | Hex nut | 304 Stainless steel |
| 19 | Hex nut | 304 Stainless steel |
| 20 | Pipe plug | Stainless steel |
| 21 | Lower thrust washer | Delrin |
| 26 | Handwheel | Ductile iron ASTM A536 |

Construction shown is with mechanical joint end connection and is illustrative only.



DIMENSIONS

14"-18" Class 125 Flanged Ends Bevel Gear Actuator



| Size | B | B125 | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|---------|------|--------|--------|------------|--------|--------|--------|--------|--------------------|-------|----------------|
| 14" | 35-3/16 | 15 | 1-3/8 | 18-3/4 | 12 - 1-1/8 | 26 | 14-1/8 | 21 | 13-1/2 | 12 | 88 | 750 lbs. |
| 16" | 39-3/4 | 16 | 1-7/16 | 21-1/4 | 16 - 1-1/8 | 28-1/4 | 16-1/4 | 23-1/2 | 15-1/8 | 12 | 100 | 900 lbs. |
| 18" | 43 | 17 | 1-9/16 | 22-3/4 | 16 - 1-1/4 | 32 | 18-1/8 | 25 | 15 | 12 | 112 | 1180 lbs. |

NOTES:

1. Bolt patterns of Class 125 flanged ends are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125).
2. Standard internal and external coating is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Working pressure is 250 psig.
6. Valve meets requirements of ANSI/AWWA C515 where applicable.
4. Valve is Certified to NSF/ANSI Standard 61-G.

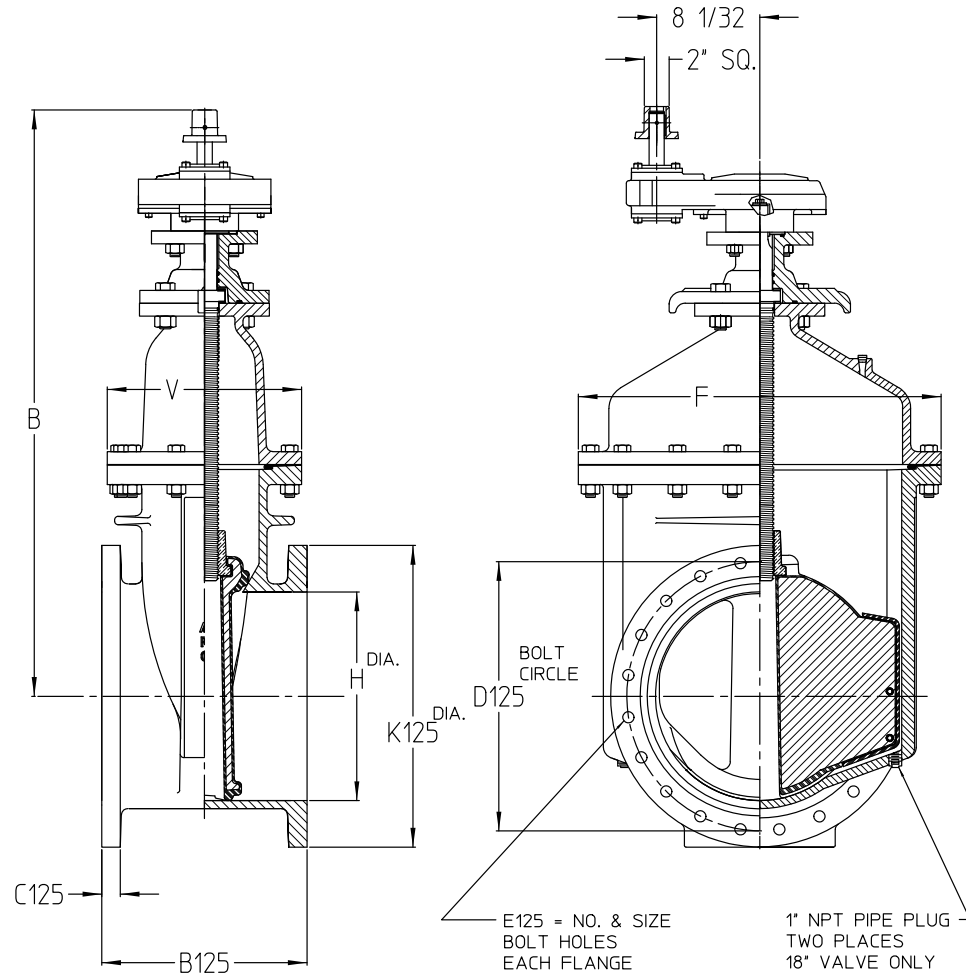
See pages 19 and 20 for other end configurations.

IT IS CONSIDERED GOOD PRACTICE THAT WHEN DEPTH OF BURY AND APPLICATIONS ALLOW, GATE VALVES BE INSTALLED IN THE VERTICAL POSITION.

IT IS RECOMMENDED THAT THE MAIN VALVE STEM BE IN THE VERTICAL POSITION FOR RAW SEWERAGE APPLICATIONS.

14"-18" Class 125 Flanged Ends Spur Gear Actuator

DIMENSIONS



| Size | B | B125 | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|--------|------|--------|--------|------------|--------|--------|--------|--------|--------------------|-------|----------------|
| 14" | 42 | 15 | 1-3/8 | 18-3/4 | 12 - 1-1/8 | 26 | 14-1/8 | 21 | 13-1/2 | 12 | 88 | 750 lbs. |
| 16" | 45-1/2 | 16 | 1-7/16 | 21-1/4 | 16 - 1-1/8 | 28-1/4 | 16-1/4 | 23-1/2 | 15-1/8 | 12 | 100 | 900 lbs. |
| 18" | 51-3/8 | 17 | 1-9/16 | 22-3/4 | 16 - 1-1/4 | 32 | 18-1/8 | 25 | 15 | 12 | 112 | 1180 lbs. |

NOTES:

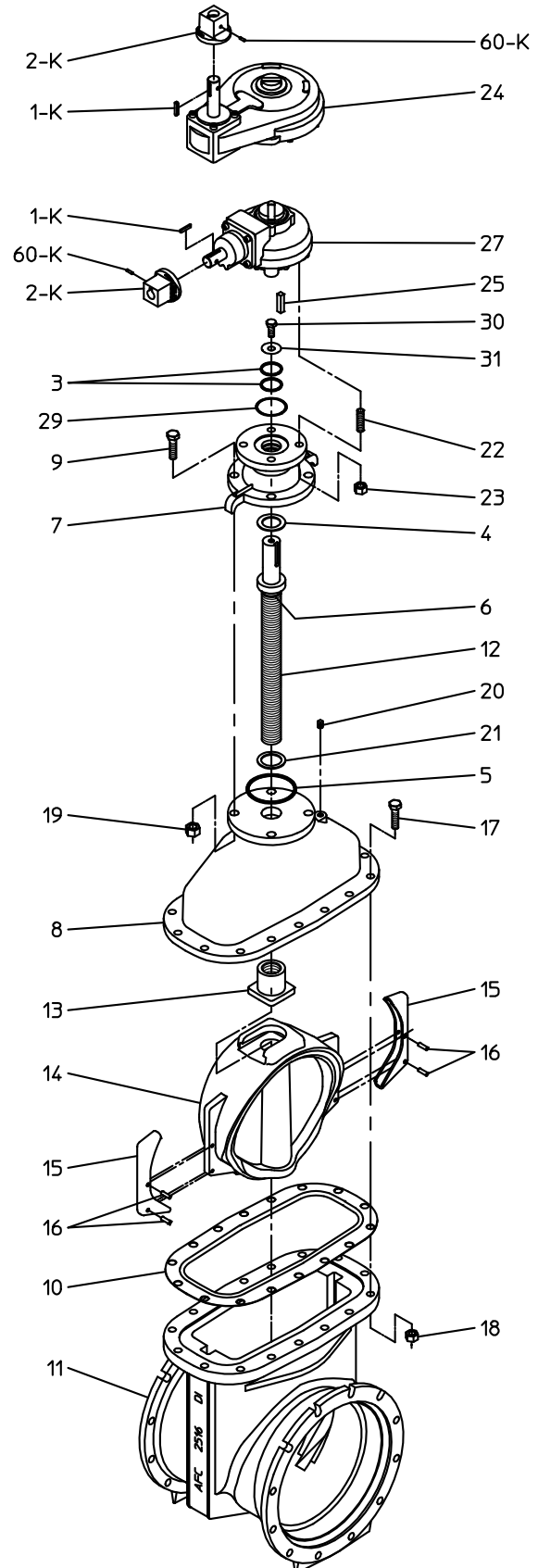
1. Bolt patterns of Class 125 flanged ends are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125).
2. Standard internal and external coating is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Working pressure is 250 psig.
6. Valve meets requirements of ANSI/AWWA C515 where applicable.
4. Valve is Certified to NSF/ANSI Standard 61-G.

See pages 19 and 20 for other end configurations.

PARTS LIST

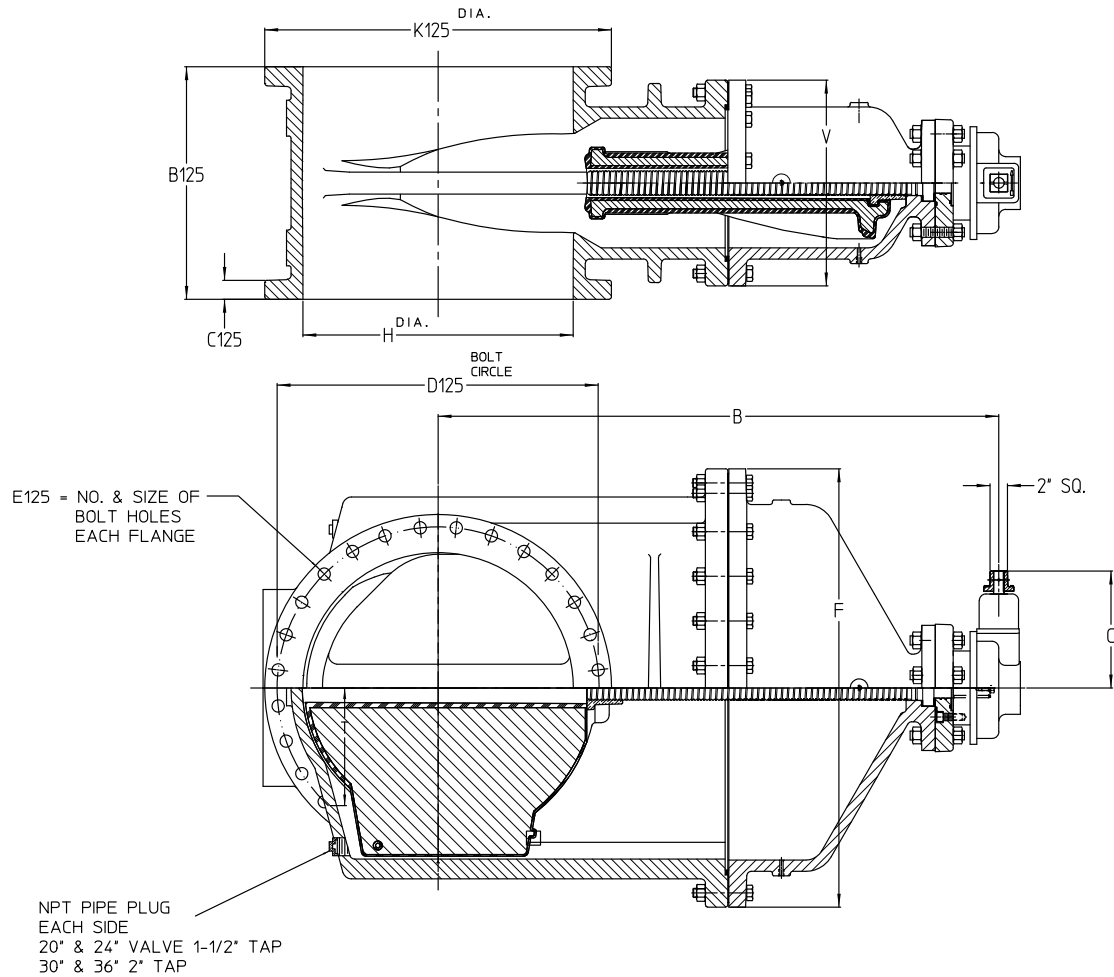
| Ref | Description | Material |
|------|-----------------------|-----------------------------------|
| 1-K | Key for operating nut | Steel |
| 2-K | Operating nut | Ductile iron ASTM A536 |
| 3 | O-ring | Rubber |
| 4 | Upper thrust washer | Delrin |
| 5 | Stuffing box gasket | Rubber |
| 6 | O-ring | Rubber |
| 7 | Stuffing box | Ductile iron ASTM A536 |
| 8 | Bonnet | Ductile iron ASTM A536 |
| 9 | Hex HD Bolt | 304 Stainless steel |
| 10 | Throat flange gasket | Rubber |
| 11 | Valve body | Ductile iron ASTM A536 |
| 12 | Stem | Bronze (Stainless steel optional) |
| 13 | Wedge nut | Bronze |
| 14 | Resilient wedge | Ductile iron with EPDM rubber |
| 15 | Wedge cover | Polymer |
| 16 | Wedge cover pin | Polymer |
| 17 | Hex head bolt | 304 Stainless steel |
| 18 | Hex nut | 304 Stainless steel |
| 19 | Hex nut | 304 Stainless steel |
| 20 | Pipe plug | Stainless steel |
| 21 | Lower thrust washer | Delrin |
| 22 | Stud | 304 Stainless steel |
| 23 | Hex nut | 304 Stainless steel |
| 24 | Spur gear operator | Rotork IS-5 (2:1) |
| 25 | Key | Hardened steel |
| 27 | Bevel gear operator | Rotork IB-5 (2:1) |
| 29 | Actuator gasket | Rubber O-ring |
| 30 | Hex head bolt | Plated steel |
| 31 | Washer | Plated steel |
| 32 | Handwheel | Steel |
| 60-K | Pin for operating nut | Stainless steel |

Construction shown is with mechanical joint end connection and is illustrative only.
Illustration shown with bevel and spur gear actuator.



20"-36" Class 125 Flanged Ends Bevel Gear Actuator

DIMENSIONS



| Size | B | B125 | C | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|---------|------|---------|---------|--------|------------|--------|---------|--------|--------|--------------------|-------|----------------|
| 20" | 44-7/16 | 18 | 10-3/8 | 1-11/16 | 25 | 20 - 1-1/4 | 34-1/2 | 20-1/8 | 27-1/2 | 16-1/4 | 20 | 186 | 1570 lbs. |
| 24" | 52-5/8 | 20 | 10-3/8 | 1-7/8 | 29-1/2 | 20 - 1-3/8 | 39 | 24-1/8 | 32 | 17-3/4 | 20 | 228 | 2350 lbs. |
| 30" | 62-5/8 | 26 | 13-9/16 | 2-1/8 | 36 | 28 - 1-3/8 | 49 | 30-7/32 | 38-3/4 | 23 | 20 | 379 | 4500 lbs. |
| 36" | 74-3/8 | 30 | 15-3/8 | 2-3/8 | 42-3/4 | 32 - 1-5/8 | 58 | 36-3/16 | 46 | 27-1/2 | 20 | 448 | 7440 lbs. |

NOTES:

1. Bolt patterns of Class 125 flanged ends are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125).
2. Standard internal and external coating is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Working pressure is 250 psig.
6. Valve meets requirements of ANSI/AWWA C515 where applicable.
4. Valve is Certified to NSF/ANSI Standard 61-G.

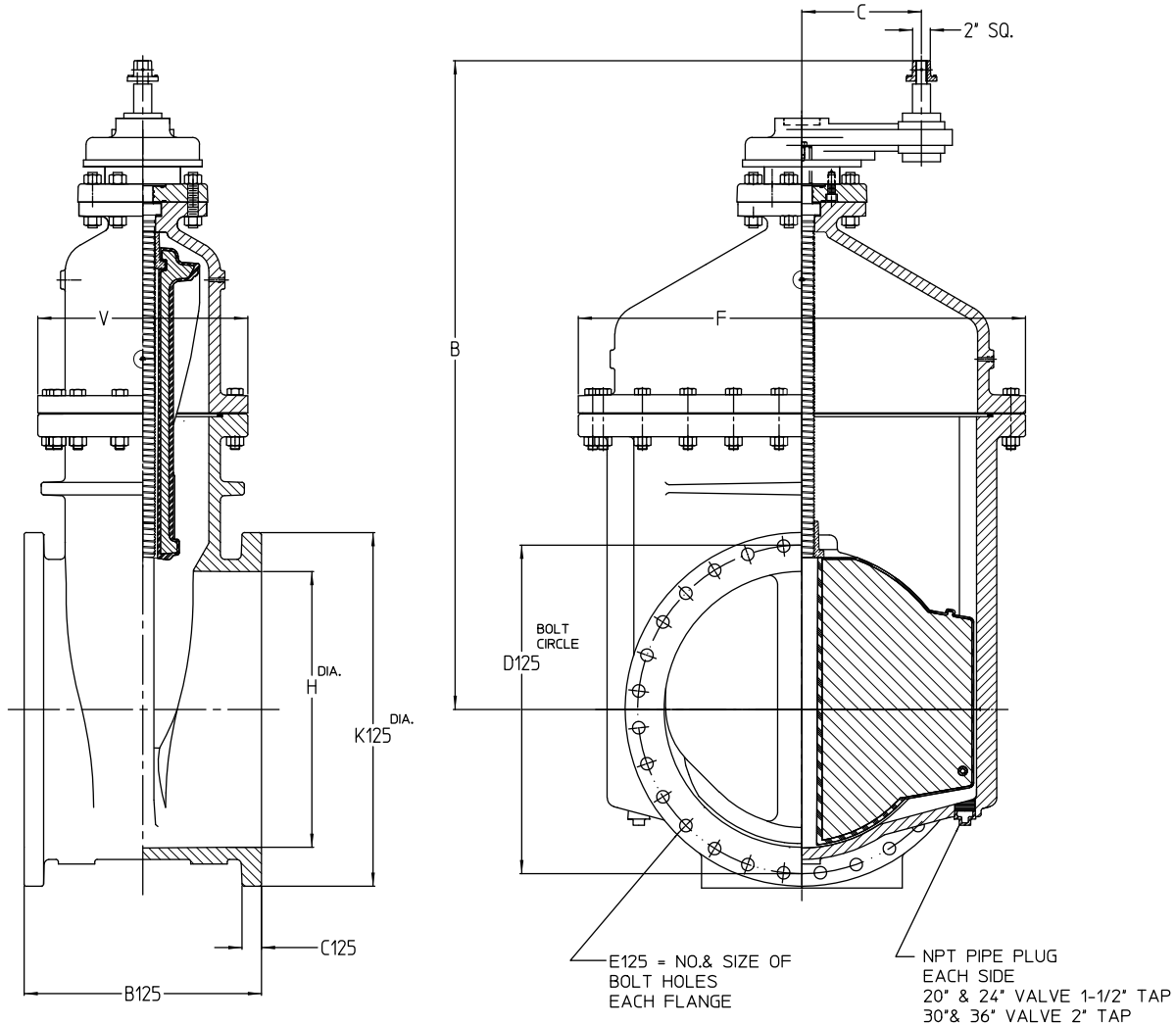
See pages 19 and 20 for other end configurations.

IT IS CONSIDERED GOOD PRACTICE THAT WHEN DEPTH OF BURY AND APPLICATIONS ALLOW, GATE VALVES BE INSTALLED IN THE VERTICAL POSITION.

IT IS RECOMMENDED THAT THE MAIN VALVE STEM BE IN THE VERTICAL POSITION FOR RAW SEWERAGE APPLICATIONS.

DIMENSIONS

20"-36" Class 125 Flanged Ends Spur Gear Actuator



| Size | B | B125 | C | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|--------|------|--------|---------|--------|------------|--------|---------|--------|--------|-----------------------|-------|-------------------|
| 20" | 49-1/2 | 18 | 12 | 1-11/16 | 25 | 20 - 1-1/4 | 34-1/2 | 20-1/8 | 27-1/2 | 16-1/4 | 20 | 186 | 1570 lbs. |
| 24" | 57-5/8 | 20 | 12 | 1-7/8 | 29-1/2 | 20 - 1-3/8 | 39 | 24-1/8 | 32 | 17-3/4 | 20 | 228 | 2350 lbs. |
| 30" | 71 | 26 | 13-1/8 | 2-1/8 | 36 | 28 - 1-3/8 | 49 | 30-7/32 | 38-3/4 | 23 | 20 | 379 | 4500 lbs. |
| 36" | 83 | 30 | 14 | 2-3/8 | 42-3/4 | 32 - 1-5/8 | 58 | 36-3/16 | 46 | 27-1/2 | 20 | 448 | 7440 lbs. |

NOTES:

1. Bolt patterns of Class 125 flanged ends are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125).
2. Standard internal and external coating is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Working pressure is 250 psig.
6. Valve meets requirements of ANSI/AWWA C515 where applicable.
4. Valve is Certified to NSF/ANSI Standard 61-G.

See pages 19 and 20 for other end configurations.

20"-36" NRS Sizes Parts List With Bevel/Spur Gearing

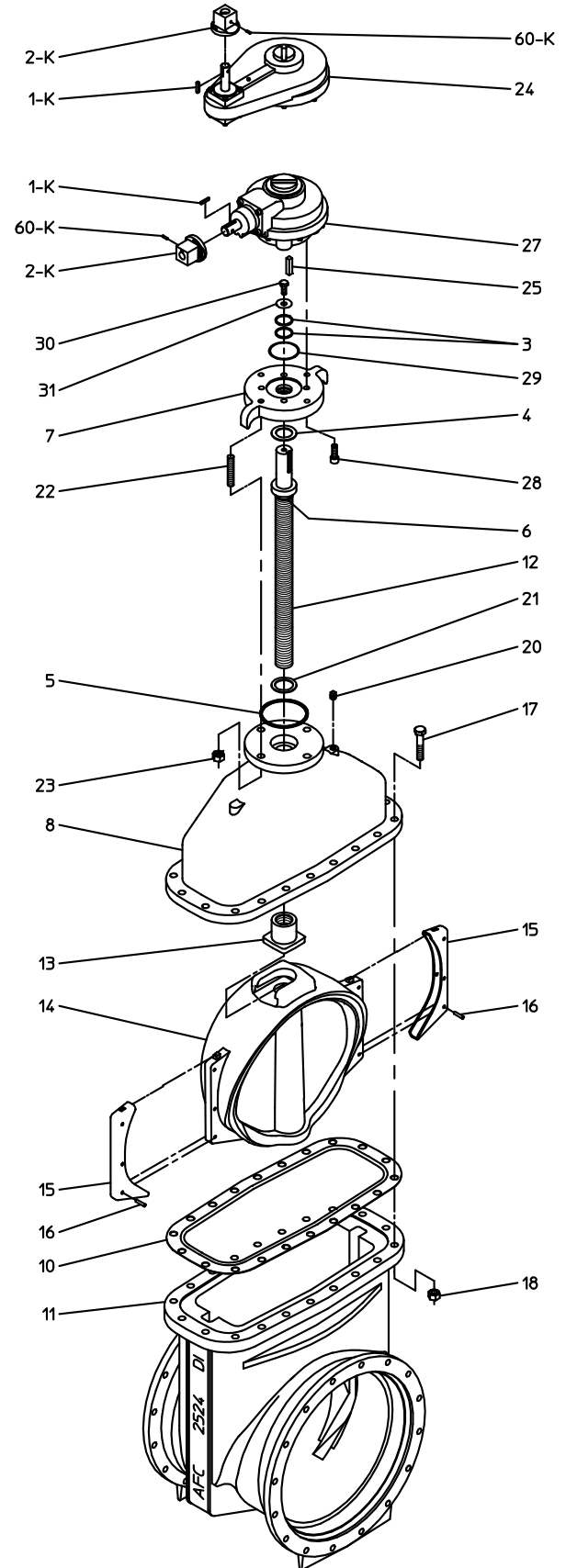
PARTS LIST

| Ref | Description | Material |
|------|-----------------------|-----------------------------------|
| 1-K | Key for operating nut | Steel |
| 2-K | Operating nut 2" sq. | Ductile iron ASTM A536 |
| 3 | O-ring | Rubber |
| 4 | Upper thrust washer | Delrin |
| 5 | Stuffing box gasket | Rubber |
| 6 | O-ring | Rubber |
| 7 | Stuffing box | Ductile iron ASTM A536 |
| 8 | Bonnet | Ductile iron ASTM A536 |
| 10 | Throat flange gasket | Rubber |
| 11 | Valve body | Ductile iron ASTM A536 |
| 12 | Stem | Bronze (Stainless steel optional) |
| 13 | Wedge nut | Bronze |
| 14 | Resilient wedge | Ductile iron with EPDM rubber |
| 15 | Wedge cover | Polymer |
| 16 | Wedge cover pin | Polymer |
| 17 | Hex head bolt | 304 Stainless steel |
| 18 | Hex nut | 304 Stainless steel |
| 20 | Pipe plug | 300 Series stainless steel |
| 21 | Lower thrust washer | Delrin |
| 22 | Stud | 304 Stainless steel |
| 23 | Hex nut | 304 Stainless steel |
| 24 | Spur gear actuator | See table below |
| 25 | Key | Hardened steel |
| 27 | Bevel gear actuator | See table below |
| 28 | Socket head capscrew | 304 Stainless steel |
| 29 | Actuator gasket | Rubber |
| 30 | Hex head bolt | Plated steel |
| 31 | Washer | Plated steel |
| 32 | Handwheel | Steel |
| 60-K | Pin for operating nut | Stainless steel |

| Size | Ref | Actuator | Size | Ref | Actuator |
|------|-----|--------------------|------|-----|--------------------|
| 20 | 24 | Rotork IS-7 (3:1) | 20 | 27 | Rotork IB-7 (3:1) |
| 24 | 24 | Rotork IS-7 (3:1) | 24 | 27 | Rotork IB-7 (3:1) |
| 30 | 24 | Rotork IS-8 (4:1) | 30 | 27 | Rotork IB-8 (4:1) |
| 36 | 24 | Rotork IS-10 (4:1) | 36 | 27 | Rotork IB-10 (4:1) |

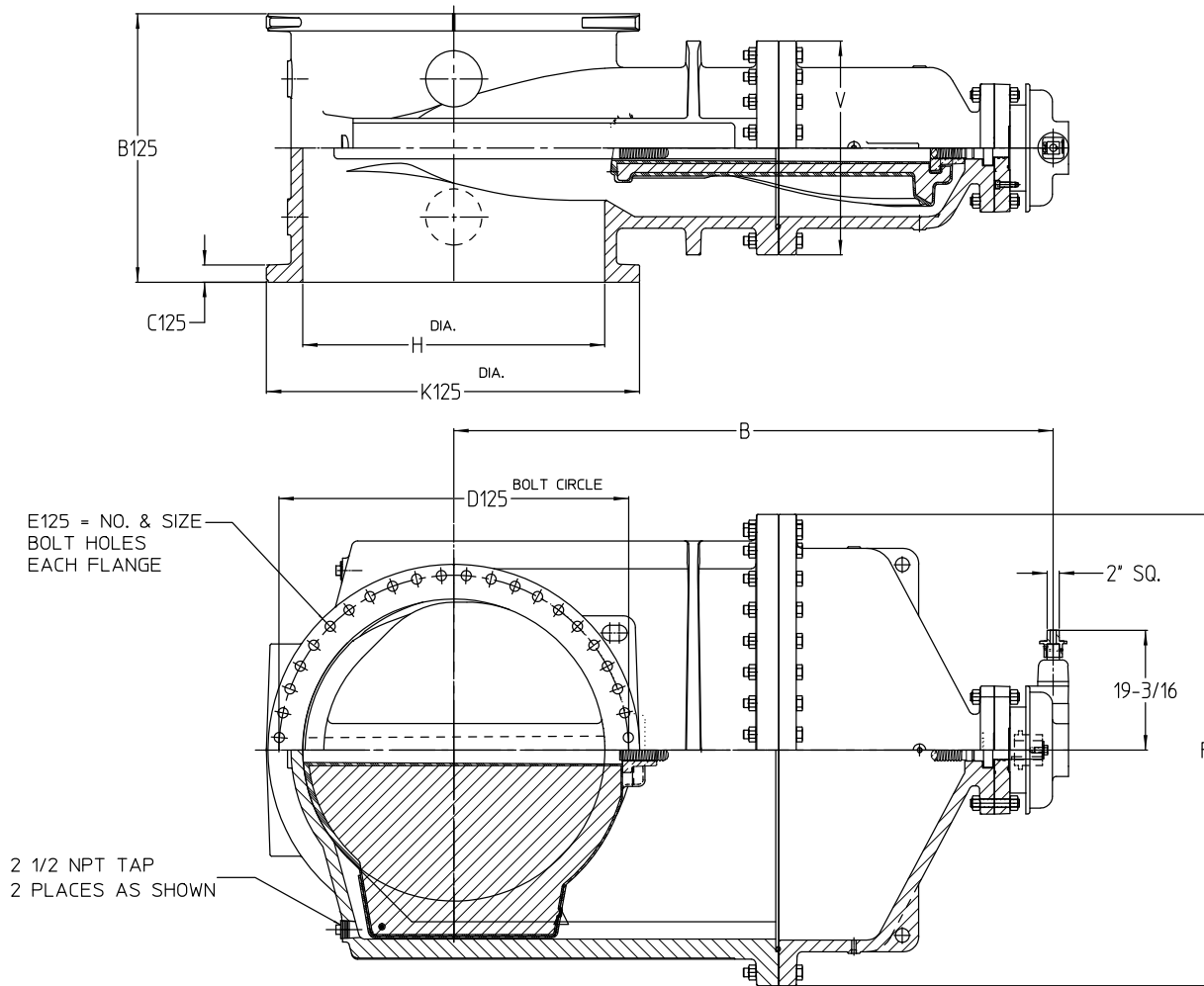
Construction shown is with mechanical joint end connection and is illustrative only.

Illustration shown with bevel and spur gear actuator.



DIMENSIONS

42"-54" Class 125 Flanged Ends Bevel Gear Actuator



| Size | B | B125 | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|---------|------|-------|--------|------------|--------|--------|--------|--------|-----------------------|-------|-------------------|
| 42" | 86-9/32 | 38 | 2-5/8 | 49-1/2 | 36 - 1-5/8 | 66-3/4 | 42-3/8 | 53 | 31-1/4 | 32 | 694 | 11,279 lbs. |
| 48" | 96 | 43 | 2-3/4 | 56 | 44 - 1-5/8 | 75-1/2 | 48-3/8 | 59-1/2 | 34-1/4 | 32 | 789 | 15,870 lbs. |
| 54" | 96 | 48 | 3 | 62-3/4 | 44 - 2 | 75-1/2 | 48-3/8 | 66-1/4 | 34-1/4 | 32 | 789 | 17,054 lbs. |

NOTES:

1. Bolt patterns of Class 125 flanged ends for 42 in. and 48 in. are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125). Bolt pattern of Class 125 flanged ends for 54 in. is in accordance with ANSI/AWWA C115 (ASME B16.1 Class 125).
2. Standard internal and external coating for 42 in. and 48 in. is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Standard internal and external coating for 54 in. is liquid epoxy and meets requirements of ANSI/AWWA C550.
4. Working pressure is 250 psig.
5. Valve meets requirements of ANSI/AWWA C515 where applicable.
6. Valve is Certified to NSF/ANSI Standard 61-G.

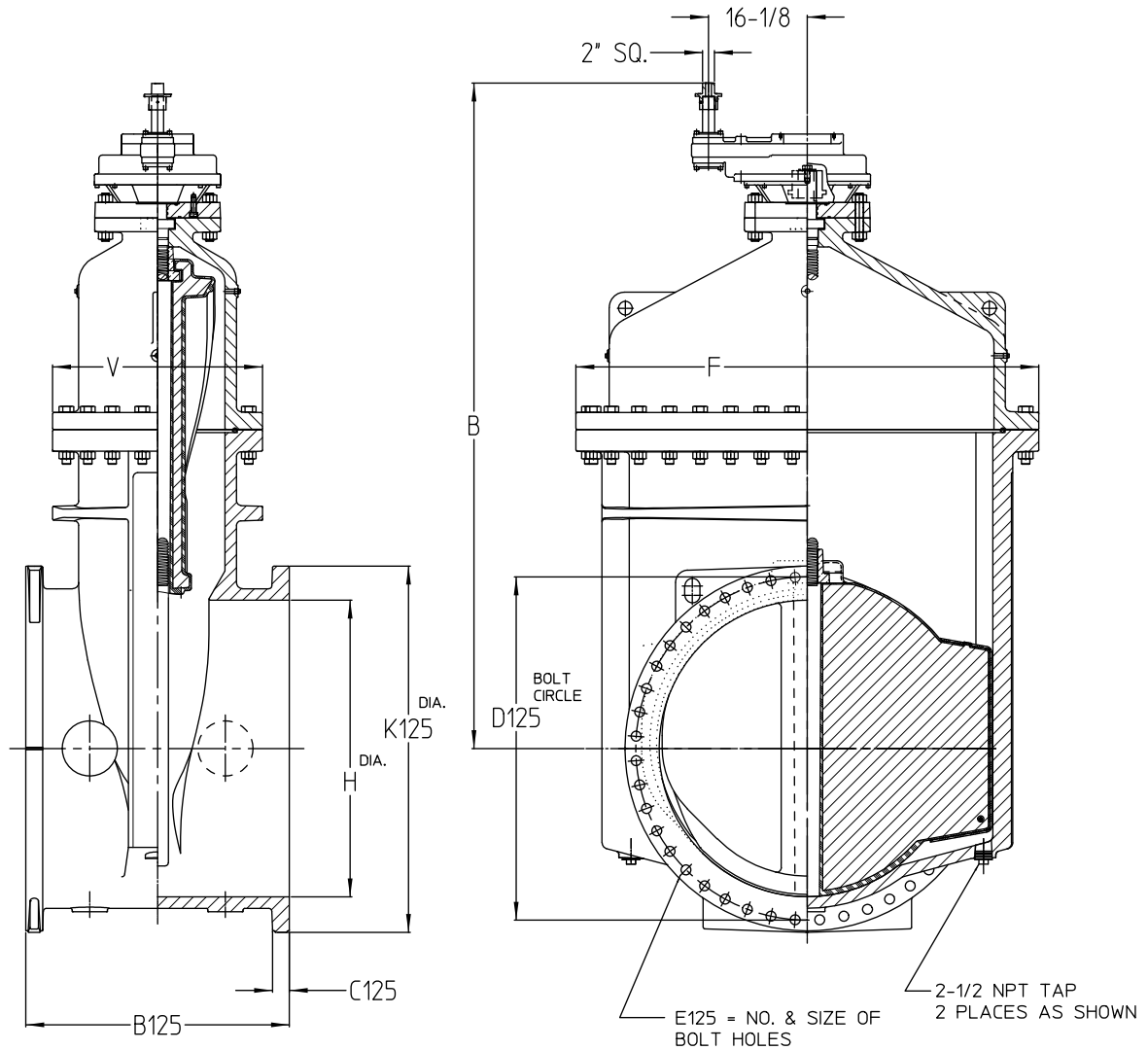
See pages 19 and 20 for other end configurations.

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IT IS RECOMMENDED THAT THE MAIN VALVE STEM BE IN THE VERTICAL POSITION FOR RAW SEWERAGE APPLICATIONS.

42"-54" Class 125 Flanged Ends Spur Gear Actuator

DIMENSIONS



| Size | B | B125 | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|---------|------|-------|--------|------------|--------|--------|--------|--------|--------------------|-------|----------------|
| 42" | 98-3/4 | 38 | 2-5/8 | 49-1/2 | 36 - 1-5/8 | 66-3/4 | 42-3/8 | 53 | 31-1/4 | 32 | 694 | 11,279 lbs. |
| 48" | 108-1/2 | 43 | 2-3/4 | 56 | 44 - 1-5/8 | 75-1/2 | 48-3/8 | 59-1/2 | 34-1/4 | 32 | 789 | 15,870 lbs. |
| 54" | 108-1/2 | 48 | 3 | 62-3/4 | 44 - 2 | 75-1/2 | 48-3/8 | 66-1/4 | 34-1/4 | 32 | 789 | 17,054 lbs. |

NOTES:

1. Bolt patterns of Class 125 flanged ends for 42 in. and 48 in. are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125). Bolt pattern of Class 125 flanged ends for 54 in. is in accordance with ANSI/AWWA C115 (ASME B16.1 Class 125).
2. Standard internal and external coating for 42 in. and 48 in. is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Standard internal and external coating for 54 in. is liquid epoxy and meets requirements of ANSI/AWWA C550.
4. Working pressure is 250 psig.
5. Valve meets requirements of ANSI/AWWA C515 where applicable.
6. Valve is Certified to NSF/ANSI Standard 61-G.

See pages 19 and 20 for other end configurations.

PARTS LIST

42"–54" NRS Sizes Parts List With Bevel/Spur Gearing

| Ref | Description | Material |
|------|-----------------------------|-----------------------------------|
| 1-K | Key for operating nut | Steel |
| 2-K | Operating nut 2" sq. | Ductile iron ASTM A536 |
| 3 | O-ring | Rubber |
| 4 | Upper thrust washer | Delrin |
| 5 | Stuffing box gasket | Rubber |
| 6 | O-ring | Rubber |
| 7 | Stuffing box | Ductile iron ASTM A536 |
| 8 | Bonnet | Ductile iron ASTM A536 |
| 10 | Throat flange gasket | Rubber |
| 11 | Valve body | Ductile iron ASTM A536 |
| 12 | Stem | Bronze (Stainless steel optional) |
| 13 | Wedge nut | Bronze |
| 14 | Resilient wedge | Ductile iron with EPDM rubber |
| 15 | Wedge cover | Polymer |
| 16 | Wedge cover pin | Polymer |
| 17 | Hex head bolt | 304 Stainless steel |
| 18 | Hex nut | 304 Stainless steel |
| 20 | Pipe plug | 300 Series stainless steel |
| 21 | Lower thrust washer | Delrin |
| 22 | Stud | 304 Stainless steel |
| 23 | Hex nut | 304 Stainless steel |
| 24 | Spur gear actuator | Rotork IS12 (8:1) |
| 25 | Key | Hardened steel |
| 27 | Bevel gear actuator | Rotork IB-12 (8:1) |
| 28 | Socket head capscrew | 304 Stainless steel |
| 29 | Actuator gasket | Rubber |
| 30 | Hex head bolt | Plated steel |
| 31 | Washer | Steel |
| 32 | Handwheel | Steel |
| 50-K | Set screw for operating nut | Stainless steel |

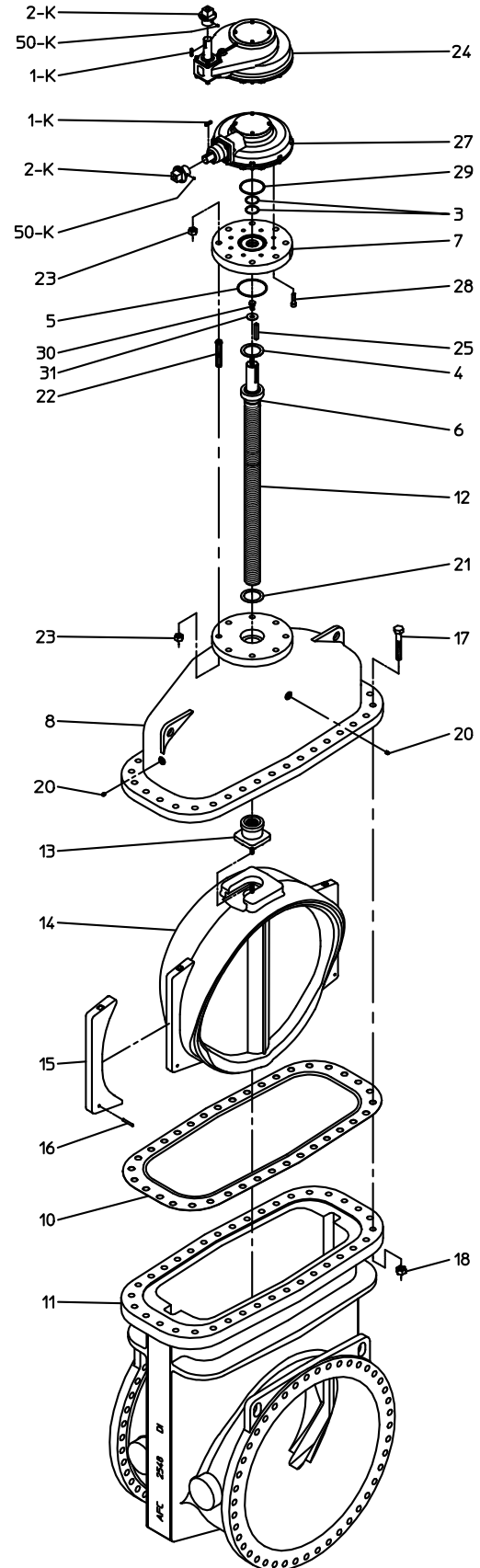
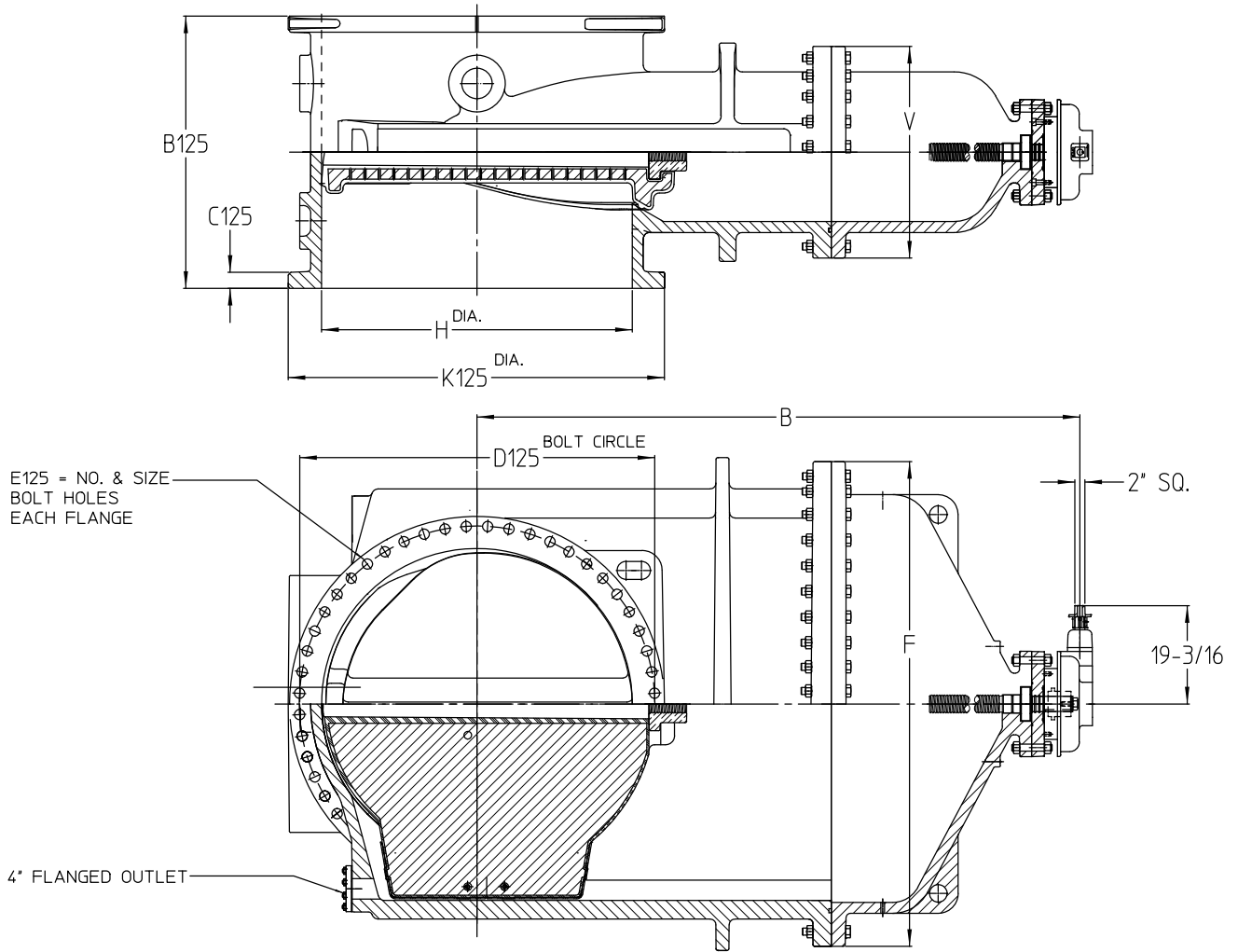


Illustration shown with bevel and spur gear actuator.

60" & 66" Class 125 Flanged Ends Bevel Gear Actuator

DIMENSIONS



| Size | B | B125 | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|-----|------|-------|--------|--------|--------|--------|------|---------|--------------------|-------|----------------|
| 60" | 118 | 53 | 3-1/8 | 69-1/4 | 52 - 2 | 94-3/8 | 60-1/2 | 73 | 41-3/16 | 36 | 984 | 28,142 lbs. |
| 66" | 118 | 58 | 3-3/8 | 76 | 52 - 2 | 94-3/8 | 60-1/2 | 80 | 41-3/16 | 36 | 984 | 29,854 lbs. |

NOTES:

- Bolt pattern of Class 125 flanged ends for 60 in. is in accordance with ANSI/AWWA C115 (ASME B16.1 Class 125). Bolt pattern for 66 in. is in accordance with ANSI/AWWA C207 Class E.
- Standard internal and external coating for 60 in. and 66 in. is liquid epoxy and meets requirements of ANSI/AWWA C550.
- Working pressure is 250 psig.
- Valve meets requirements of ANSI/AWWA C515 where applicable.
- Valve is Certified to NSF/ANSI Standard 61-G.

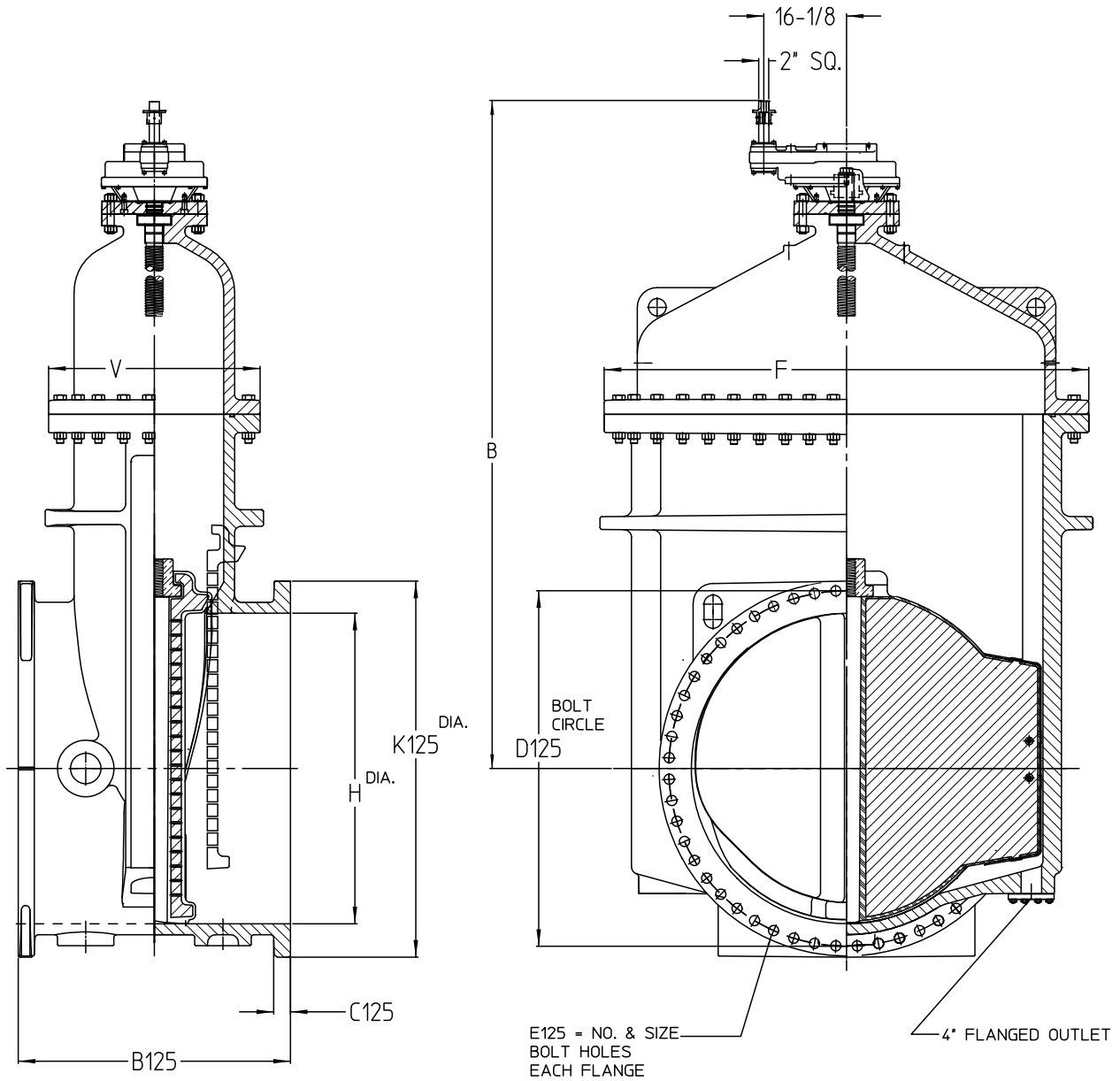
See pages 19 and 20 for other end configurations.

IT IS CONSIDERED GOOD PRACTICE THAT WHEN DEPTH OF BURY AND APPLICATIONS ALLOW, GATE VALVES BE INSTALLED IN THE VERTICAL POSITION.

IT IS RECOMMENDED THAT THE MAIN VALVE STEM BE IN THE VERTICAL POSITION FOR RAW SEWERAGE APPLICATIONS.

DIMENSIONS

60" & 66" Class 125 Flanged Ends Spur Gear Actuator



| Size | B | B125 | C125 | D125 | E125 | F | H | K125 | V | Handwheel Diameter | Turns | Approx. Weight |
|------|----------|------|-------|--------|--------|--------|--------|------|---------|--------------------|-------|----------------|
| 60" | 128-5/16 | 53 | 3-1/8 | 69-1/4 | 52 - 2 | 94-3/8 | 60-1/2 | 73 | 41-3/16 | 36 | 984 | 28.142 lbs. |
| 66" | 128-5/16 | 58 | 3-3/8 | 76 | 52 - 2 | 94-3/8 | 60-1/2 | 80 | 41-3/16 | 36 | 984 | 29,854 lbs. |

NOTES:

1. Bolt pattern of Class 125 flanged ends for 60 in. is in accordance with ANSI/AWWA C115 (ASME B16.1 Class 125).
Bolt pattern for 66 in. is in accordance with ANSI/AWWA C207 Class E.
2. Standard internal and external coating for 60 in. and 66 in. is liquid epoxy and meets requirements of ANSI/AWWA C550.
3. Working pressure is 250 psig.
4. Valve meets requirements of ANSI/AWWA C515 where applicable.
5. Valve is Certified to NSF/ANSI Standard 61-G.

See pages 19 and 20 for other end configurations.

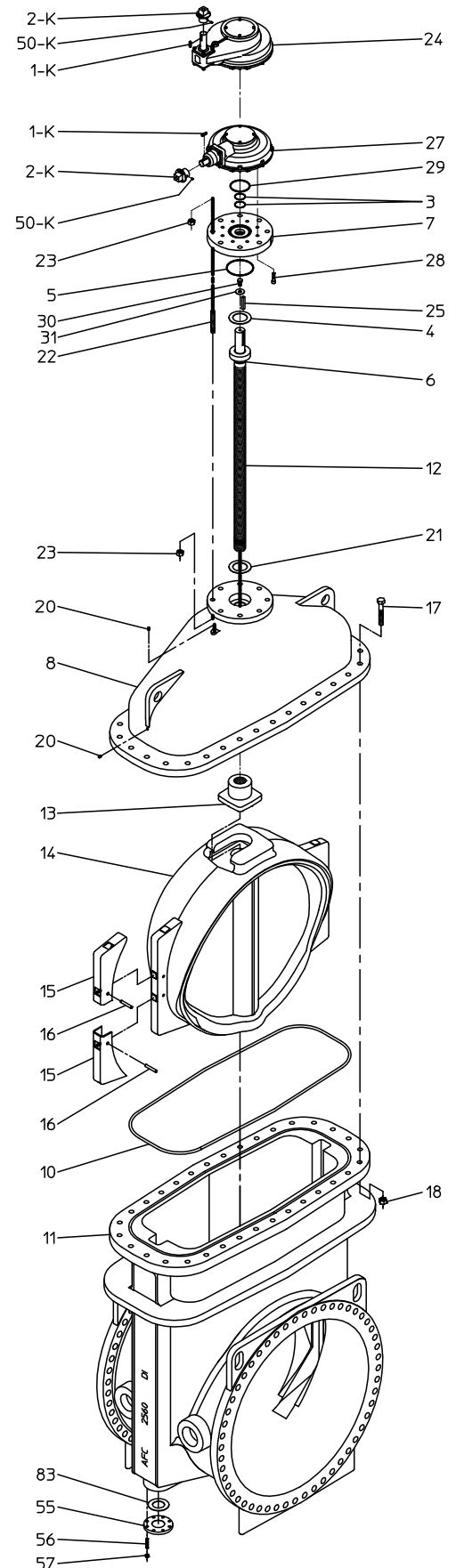
60" & 66" NRS Sizes Parts List With Bevel/Spur Gearing

PARTS LIST

| Ref | Description | Material |
|------|-----------------------------|-------------------------------|
| 1-K | Key | Steel |
| 2-K | Operating nut 2" sq. | Ductile iron ASTM A536 |
| 3 | O-ring | Rubber |
| 4 | Upper thrust washer | Delrin |
| 5 | Stuffing box gasket | Rubber |
| 6 | O-ring | Rubber |
| 7 | Stuffing box | Ductile iron ASTM A536 |
| 8 | Bonnet | Ductile iron ASTM A536 |
| 10 | Throat flange gasket | Rubber |
| 11 | Valve body | Ductile iron ASTM A536 |
| 12 | Stem | Stainless steel |
| 13 | Wedge nut | Bronze |
| 14 | Resilient wedge | Ductile iron with EPDM rubber |
| 15 | Wedge cover | Polymer |
| 16 | Wedge cover pin | Polymer |
| 17 | Hex head bolt | 304 Stainless steel |
| 18 | Hex nut | 304 Stainless steel |
| 20 | Pipe plug | 300 Series stainless steel |
| 21 | Lower thrust washer | Delrin |
| 22 | Stud | 304 Stainless steel |
| 23 | Hex nut | 304 Stainless steel |
| 24 | Spur gear actuator | Rotork IS-12 (8:1) |
| 25 | Key | Hardened steel |
| 27 | Bevel gear actuator | Rotork IB-12 (8:1) |
| 28 | Socket head capscrew | 304 Stainless steel |
| 29 | Actuator gasket | Rubber |
| 30 | Hex head bolt | 304 Stainless steel |
| 31 | Washer | Steel |
| 32 | Handwheel | Steel |
| 50-K | Set screw for operating nut | Stainless steel |
| 55 | Blind flange ** | Ductile iron |
| 56 | Studs | Stainless steel |
| 57 | Nuts | Stainless steel |
| 83 | Blind Flange Gasket | Rubber |

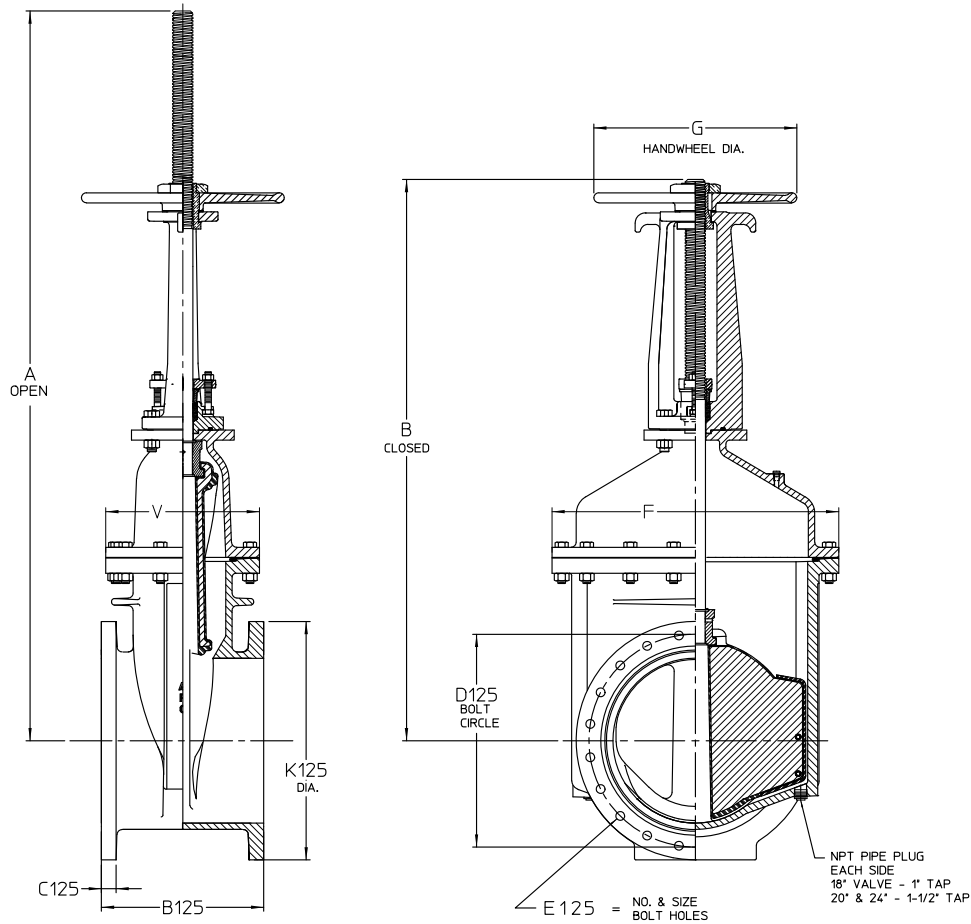
Illustration shown with bevel and spur gear actuator.

** On horizontal configurations, the blind flange (Ref. # 55) will be located on the bottom of the valve guide track, opposite the direction in which the bevel gear input shaft is installed.



DIMENSIONS

14"-24" Class 125 Flanged Ends OS&Y



| Size | A | B | B125 | C125 | D125 | E125 | F | G | K125 | V | Turns | Approx. Weight |
|------|---------|---------|------|---------|--------|------------|--------|----|--------|--------|-------|----------------|
| 14" | 66-1/8 | 51-3/4 | 15 | 1-3/8 | 18-3/4 | 12 - 1-1/8 | 26 | 20 | 21 | 13-1/2 | 44 | 670 lbs. |
| 16" | 72 | 55-1/4 | 16 | 1-7/16 | 21-1/4 | 16 - 1-1/8 | 28-1/4 | 20 | 23-1/2 | 15-1/8 | 50 | 820 lbs. |
| 18" | 81-1/4 | 62-5/8 | 17 | 1-9/16 | 22-3/4 | 16 - 1-1/4 | 32 | 28 | 25 | 15 | 56 | 1100 lbs. |
| 20" | 88 | 67-5/16 | 18 | 1-11/16 | 25 | 20 - 1-1/4 | 34-1/2 | 28 | 27-1/2 | 16-1/4 | 62 | 1520 lbs. |
| 24" | 105-1/4 | 79-7/8 | 20 | 1-7/8 | 29-1/2 | 20 - 1-3/8 | 39 | 28 | 32 | 17-3/4 | 76 | 2300 lbs. |

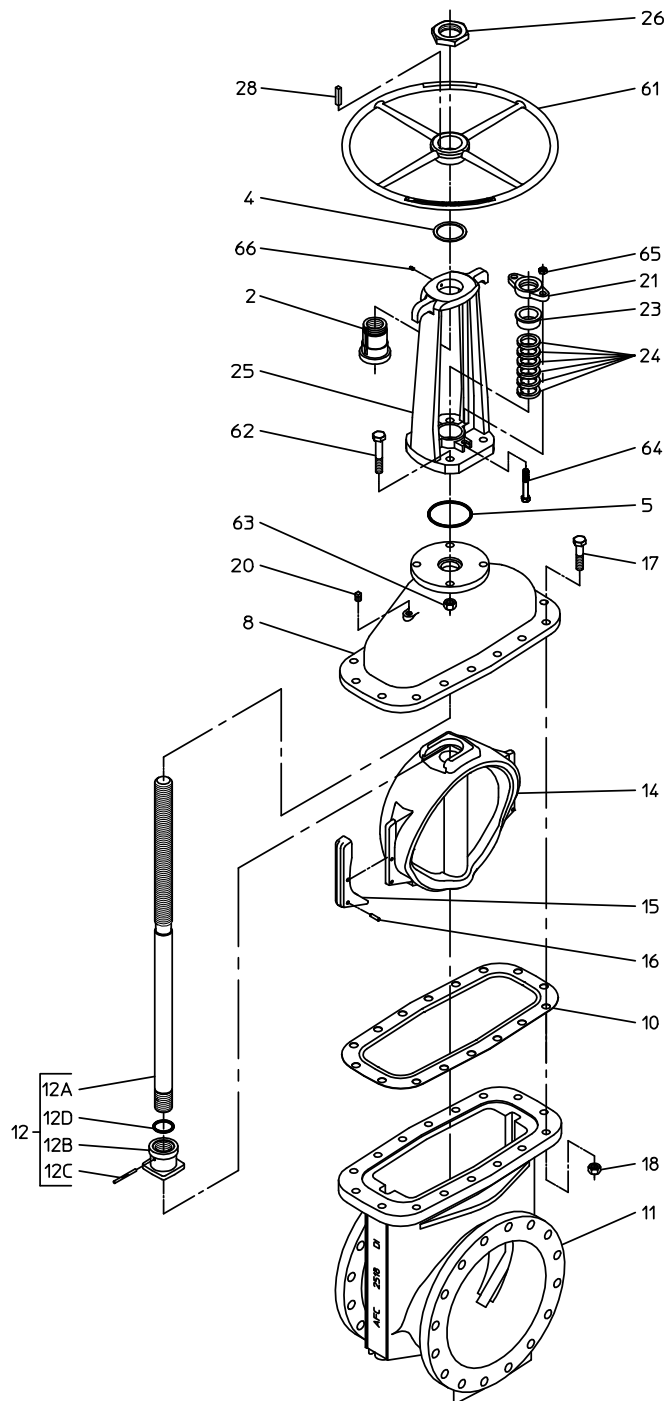
NOTES:

1. Bolt patterns of Class 125 flanged ends are in accordance with ANSI/AWWA C110/A21.10 (ASME B16.1 Class 125).
2. Standard internal and external coating is fusion-bonded epoxy and meets requirements of ANSI/AWWA C550.
3. Working pressure is 250 psig.
6. Valve meets requirements of ANSI/AWWA C515 where applicable.
4. Valve is Certified to NSF/ANSI Standard 61-G.
5. 14 in. - 16 in. valves may be ordered in configurations that are UL Listed FM Approved and have 200 psig rated working pressure.
6. 18 in. - 24 in. valves may be ordered in configurations that are UL Listed and have 175 psig rated working pressure.

14"-24" OS&Y Sizes Parts List

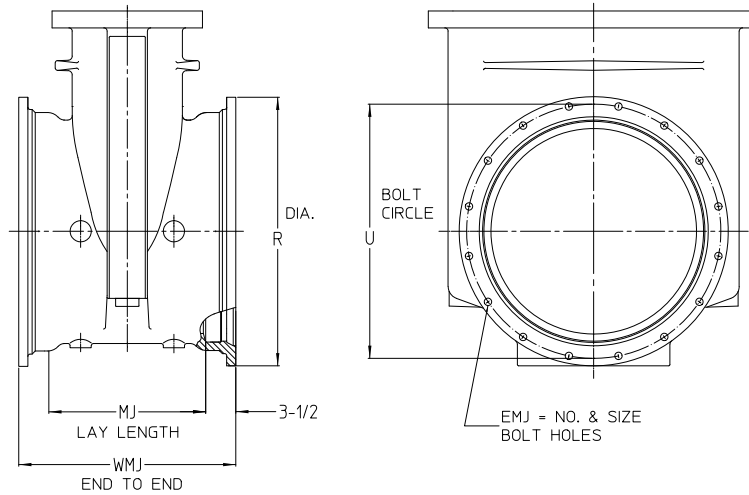
PARTS LIST

| Ref | Description | Material |
|-----|---------------------------|-------------------------------|
| 2 | Yoke Nut | Bronze |
| 4 | Handwheel Washer | Nylon |
| 5 | Stuffing Box Gasket | Rubber O-ring |
| 8 | Bonnet | Ductile iron ASTM A536 |
| 10 | Bonnet Gasket | Rubber |
| 11 | Body | Ductile iron ASTM A536 |
| 12 | Stem & Wedge Nut Assembly | See Below |
| 12A | Stem | Stainless Steel |
| 12B | Wedge Nut | Ductile iron ASTM A536 |
| 12C | Groove Pin | Stainless steel |
| 12D | O-ring | Rubber |
| 14 | Resilient Wedge | Ductile iron with EPDM rubber |
| 15 | Wedge Cover | Polymer |
| 16 | Wedge Cover Pin | Polymer |
| 17 | Hex Head Bolt | 304 Stainless steel |
| 18 | Hex Nut | 304 Stainless steel |
| 19 | Hex Nut | 304 Stainless steel |
| 20 | Pipe Plug, 3/8 NPT | Stainless steel |
| 21 | Gland Follower | Ductile iron ASTM A536 |
| 23 | Gland | Bronze |
| 24 | Packing Ring | PTFE impregnated graphite |
| 25 | Yoke | Ductile iron ASTM A536 |
| 26 | Handwheel Nut | Bronze |
| 28 | Square Key | Stainless steel |
| 61 | Handwheel | Ductile iron ASTM A536 |
| 62 | Hex Head Bolt | 304 Stainless steel |
| 63 | Hex Nut | 304 Stainless steel |
| 64 | Hex Head Bolt | 304 Stainless steel |
| 65 | Hex Nut | Brass |
| 66 | Zerk Fitting | Stainless Steel |



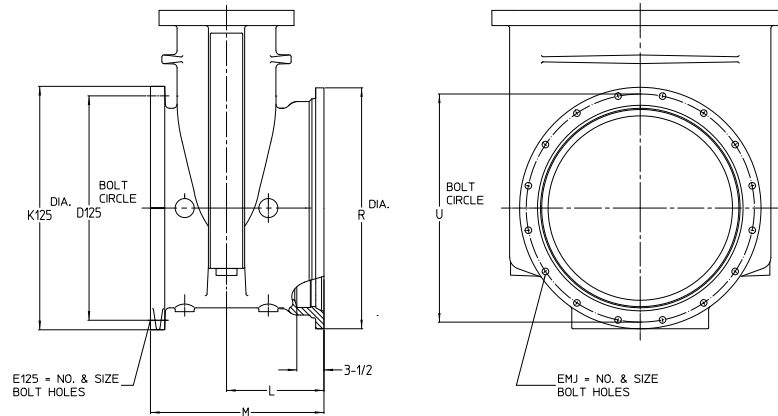
END CONFIGURATIONS/DIMENSIONS

Mechanical Joint x Mechanical Joint



| Size | 14" | 16" | 18" | 20" | 24" | 30" | 36" | 42" | 48" |
|------|----------|----------|----------|----------|----------|------------|------------|------------|------------|
| MJ | 13-1/2 | 13-7/8 | 16 | 16-1/2 | 18-5/8 | 25-3/4 | 29-1/2 | 38-3/4 | 37 |
| EMJ | 10 - 7/8 | 12 - 7/8 | 12 - 7/8 | 14 - 7/8 | 16 - 7/8 | 20 - 1-1/8 | 24 - 1-1/8 | 28 - 1-3/8 | 32 - 1-3/8 |
| R | 20-5/16 | 22-9/16 | 24-7/8 | 27-1/16 | 31-9/16 | 39-1/8 | 46 | 53-1/8 | 60 |
| U | 18-3/4 | 21 | 23-1/4 | 25-1/2 | 30 | 36-7/8 | 43-3/4 | 50-5/8 | 57-1/2 |
| WMJ | 20-1/2 | 20-7/8 | 23 | 23-1/2 | 25-5/8 | 33-3/4 | 37-1/2 | 46-3/4 | 45 |

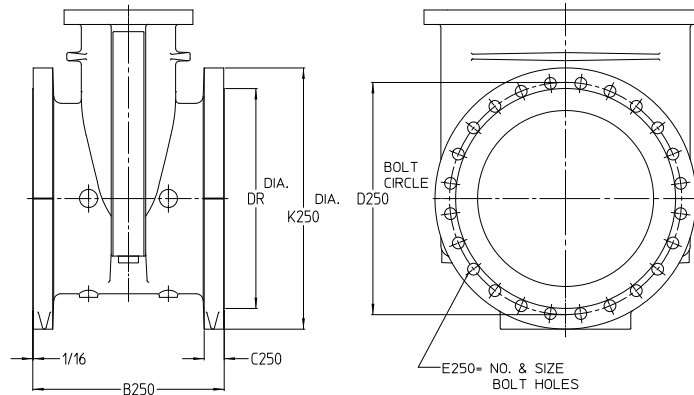
Class 125 Flanged x Mechanical Joint



| Size | 14" | 16" | 18" | 20" | 24" | 30" | 36" | 42" | 48" |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| D125 | 18-3/4 | 21-1/4 | 22-3/4 | 25 | 29-1/2 | 36 | 42-3/4 | 49-1/2 | 56 |
| E125 | 12 - 1-1/8 | 16 - 1-1/8 | 16 - 1-1/4 | 20 - 1-1/4 | 20 - 1-3/8 | 28 - 1-3/8 | 32 - 1-5/8 | 36 - 1-5/8 | 44 - 1-5/8 |
| EMJ | 10 - 7/8 | 12 - 7/8 | 12 - 7/8 | 14 - 7/8 | 16 - 7/8 | 20 - 1-1/8 | 24 - 1-1/8 | 28 - 1-3/8 | 32 - 1-3/8 |
| K125 | 21 | 23-1/2 | 25 | 27-1/2 | 32 | 38-3/4 | 46 | 53 | 59-1/2 |
| L | 10-1/4 | 10-7/16 | 11-1/2 | 11-3/4 | 12-13/16 | 16-7/8 | 18-3/4 | 23-3/8 | 22-1/2 |
| M | 17-3/4 | 18-7/16 | 20 | 20-3/4 | 22-13/16 | 29-7/8 | 33-3/4 | 42-3/8 | 44 |
| R | 20-5/16 | 22-9/16 | 24-7/8 | 27-1/16 | 31-9/16 | 39-1/8 | 46 | 53-1/8 | 60 |
| U | 18-3/4 | 21 | 23-1/4 | 25-1/2 | 30 | 36-7/8 | 43-3/4 | 50-5/8 | 57-1/2 |

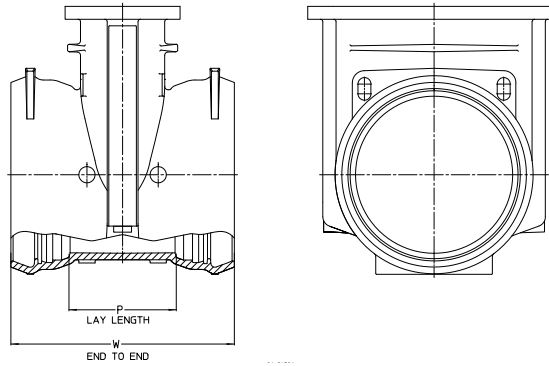
END CONFIGURATIONS/DIMENSIONS

Class 250 Flanged x Class 250 Flanged



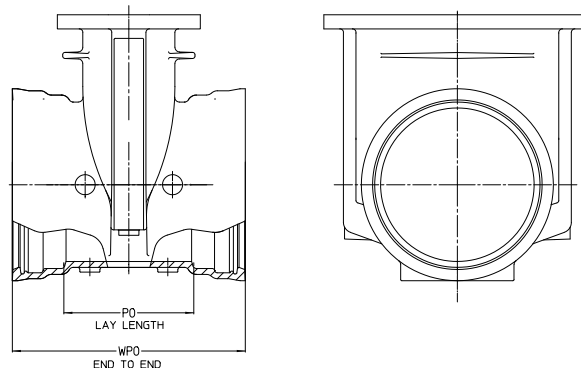
| Size | 14" | 16" | 18" | 20" | 24" | 30" | 36" | 42" | 48" |
|------|------------|------------|------------|------------|------------|---------|------------|------------|------------|
| B250 | 18-1/2 | 21 | 22 | 24 | 26-3/8 | 32 | 37 | 40 | 46-1/4 |
| C250 | 2-1/8 | 2-1/4 | 2-3/8 | 2-1/2 | 2-3/4 | 3 | 3-3/8 | 3-11/16 | 4 |
| D250 | 20-1/4 | 22-1/2 | 24-3/4 | 27 | 32 | 39-1/4 | 46 | 52-3/4 | 60-3/4 |
| DR | 18-15/16 | 21-1/16 | 23-5/16 | 25-9/16 | 30-5/16 | 37-3/16 | 43-11/16 | 50-7/16 | 58-7/16 |
| E250 | 20 - 1-1/4 | 20 - 1-3/8 | 24 - 1-3/8 | 24 - 1-3/8 | 24 - 1-5/8 | 28 - 2 | 32 - 2-1/4 | 36 - 2-1/4 | 40 - 2-1/4 |
| K250 | 23 | 25-1/2 | 28 | 30-1/2 | 36 | 43 | 50 | 57 | 65 |

Flex-Ring® x Flex-Ring®



| Size | 14" | 16" | 18" | 20" | 24" | 30" | 36" | 42" | 48" | 60" |
|------|-----|--------|-----|--------|---------|--------|---------|----------|--------|--------|
| P | NA | 13-5/8 | NA | 15-1/8 | 16-9/16 | 21-3/4 | 25-3/16 | 31-13/16 | 37-1/4 | 44-7/8 |
| W | NA | 28-1/2 | NA | 31-1/2 | 34-1/2 | 41 | 44-1/2 | 53-1/2 | 62 | 71 |

Push On x Push On



| Size | 14" | 16" |
|------|---------|----------|
| PO | 11-1/4 | 13-3/4 |
| WPO | 22-5/32 | 24-21/32 |



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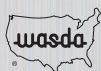
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