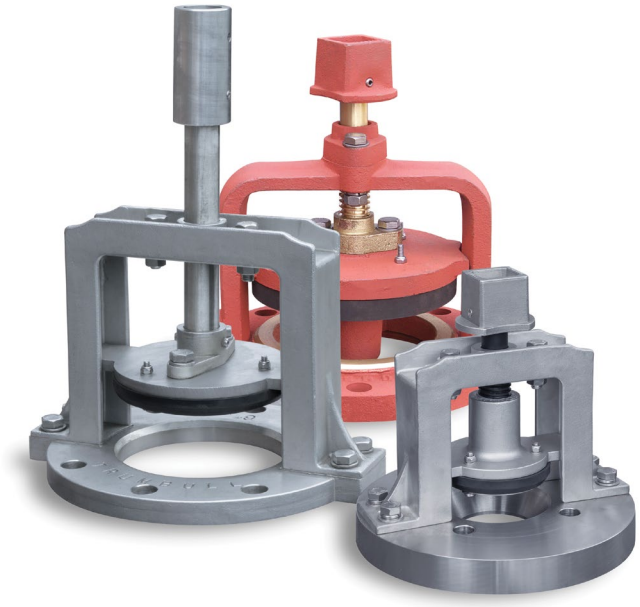
Trumbull Manufacturing

www.trumbull-mfg.com



Trumbull Manufacturing

Trumbull Manufacturing began as an outgrowth of Trumbull Industries which was founded in 1922 in Warren, Ohio (Trumbull County). Manufacturing operations started in 1981 to offer specialty products for the Municipal and Industrial markets. We stand behind our products with experienced Engineering, Quality Control and Field Service personnel. Our products are designed for long life, and are rigorously tested in-house and at independent labs.



Trumbull Mud Valves are manufactured in cast iron and cast stainless steel. Stem designs include Non-Rising Stem (NRS), Rising Stem (RS), as well as sliding stem. A full line of accessories are offered to operate our Mud Valves, including Valve Position Indicators, Extension Stems, Stem Guides, Floorstands and Floor Boxes.

Premium Stainless Mud Valves use only cast stainless components & have additional advantages:

- Heavy-duty CAST stainless steel, Type 316

1. No welded components
2. Cast design eliminates problem of carbide precipitation from welding
3. Stainless castings passivated per ASTM A-967

- Resilient seats are field-replaceable and mechanically retained; available in a variety of elastomers
- One-piece heavy-duty stem, 3rd party torque tested to over 500 ft-lb
- Permanently bonded coating on stainless stem prevents galling, 3rd party tested to over 15,000 cycles
- Rising stem, non-rising stem and sliding stem styles
- “All stainless” installation available with stainless Extension Stem, Stem Guide and Floorstand

Extend useful life of critical valves and components for an affordable premium!



CAST IRON MUD VALVES

Certified to NSF-61 and NSF-372 in USA and Canada

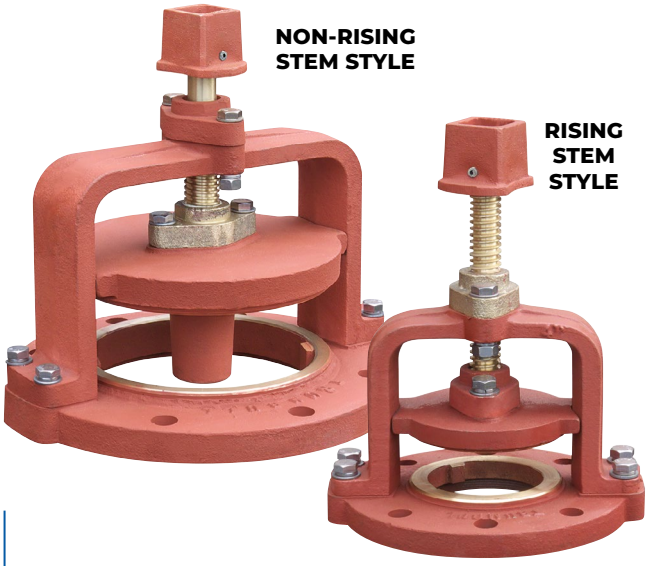
Trumbull Mud Valves are designed primarily for use in settling tanks of water and wastewater treatment plants. Their intended use is to drain tanks for maintenance or cleaning. They are for low pressure applications only; consult Trumbull for special requirements.

Mud Valves are furnished with a 2” square operating nut; however, they can be supplied with optional extension stem or handwheel (see page G-5).

This valve series uses bronze seats in the body and gate (also available with resilient seat). The cast iron body assembly features manganese bronze stems and guides for use in submerged installations. The fasteners are furnished in stainless steel to prevent corrosion from years of submerged service.

Nuts, bolts and gaskets for mounting to floor pipe are NOT furnished but can be ordered separately. Ductile iron components are coated with Tnemec N140-1211 epoxy, per NSF 61.

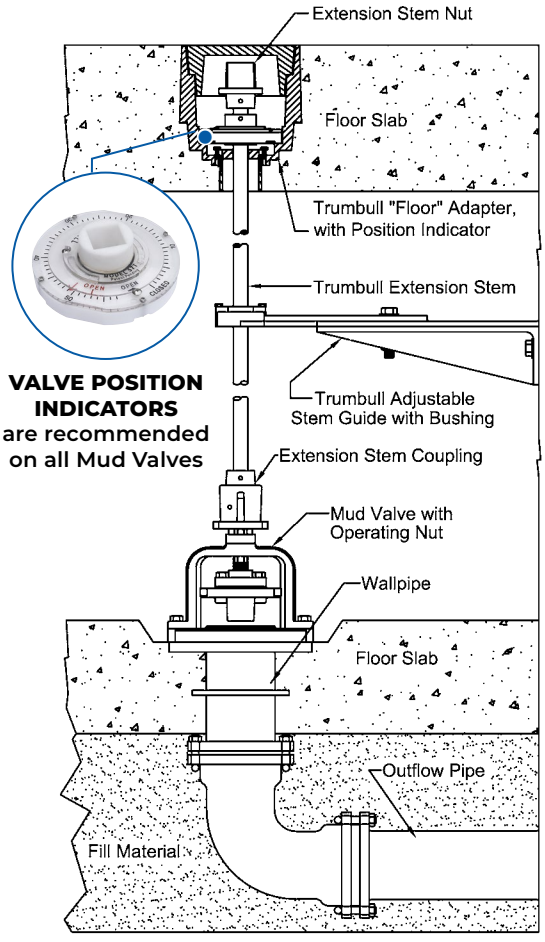
See pages 4 and 5 for drawings.



The flange drilling is according to ANSI 125# STD. on all sizes; however, one hole under each leg of the yoke is not available for fastening to the mating flange.

	Non-Rising Stem		Rising Stem	
Size	*Item №*	*Weight*	*Item №*	*Weight*
3”	367-1414	26.00 lbs.	367-1421	25.00 lbs.
4”	367-1415	31.00 lbs.	367-1420	30.00 lbs.
6”	367-1416	47.00 lbs.	367-1423	46.00 lbs.
8”	367-1418	76.00 lbs.	367-1425	73.00 lbs.
10”	367-1428	95.00 lbs.	367-1494	90.00 lbs.
12”	367-1430	130.00 lbs.	367-1495	130.00 lbs.
14”	367-1431	142.00 lbs.		
16”	367-1432	169.00 lbs.		
18”	367-1433	256.00 lbs.	Consult Trumbull for availability.	
20”	367-1434	281.00 lbs.		
24”	367-1435	450.00 lbs.		

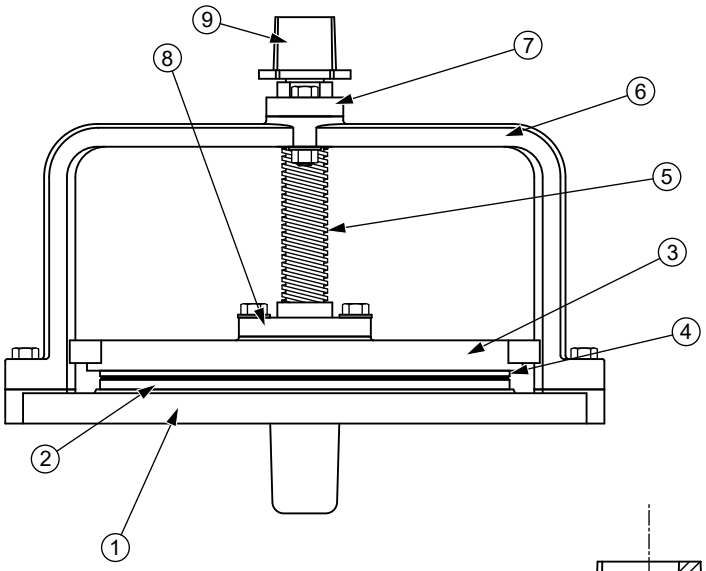
See page 10 for installation options.



Typical Mud Valve Installation

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Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16	18	20	24
A - Overall height	9-7/8	9-1/2	11-1/4	11-3/4	12-13/16	13	15	16-3/4	18-3/4	19-3/4	23-1/2
B - Width at Yoke	10	10	12-3/8	14-1/2	17	19-3/4	22-3/4	24-5/8	28-1/2	30-5/8	37
C - Valve opening	2-1/4	2	3-1/2	4	4-1/16	5	6-3/4	7-3/4	8-1/2	9-3/4	12-1/4
D - Basin depth in floor, min.	1-3/8	1-3/8	1-5/8	1-5/8	1-5/8	1-3/4	1-3/4	1-7/8	2-1/8	2-1/4	2-5/8
E - Flange Thickness	3/4	13/16	1	7/8	7/8	1	1-1/8	1-1/4	1-3/8	1-9/16	1-7/8
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21	23-1/2	25	27-1/2	32
Bolt Circle	6.0	7.5	9.5	11.75	14.25	17.0	18.75	21.25	22.75	25.0	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt Dia.	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern* (except 3")	4	8*	8*	8*	12*	12*	12*	16*	16*	20*	20*
Stem Diameter	1	1	1-1/8	1-1/4	1-3/8	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	10-1/2	11	17	20	21	25-1/2	34	40	43	49	63
Weight, pounds	26.3	27	47	73	110	130	139	167	243	280	453



Item	Part	Materials
1	Base Flange (Body)	Gray Iron, ASTM A126 (B)
2	Seat, Base Flange	Bronze, ASTM B62; B584
3	Gate	Ductile Iron, ASTM A536 (65-45-12)
4	Seat, Gate	Bronze, ASTM B62; B584
5	Stem	Bronze, ASTM B584
6	Yoke	Ductile Iron, ASTM A536 (65-45-12)
7	Guide, unthreaded	Ductile Iron, ASTM A536 (65-45-12)
8	Guide, threaded	Bronze, ASTM B584
9	Operating Nut, 2" sq.	Gray Iron, ASTM A126 (B)
All Fasteners are Stainless Steel		

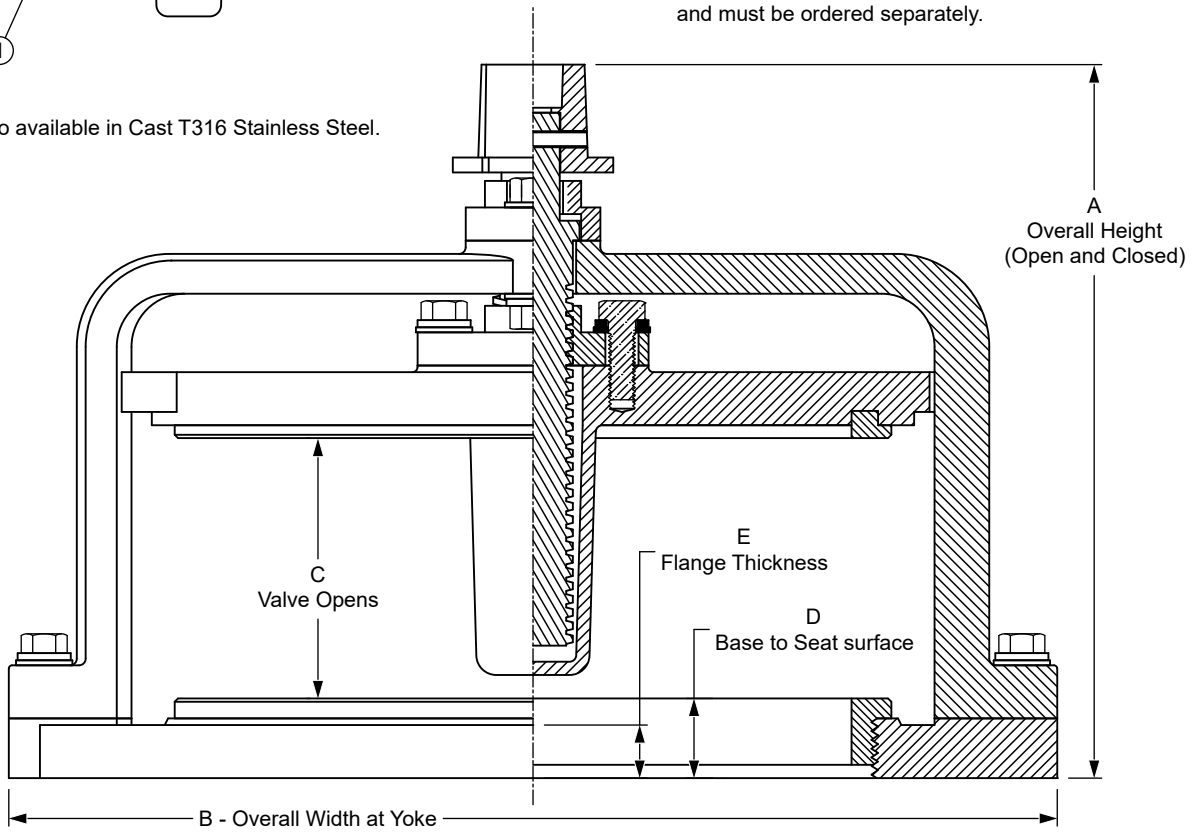
Standard 125 pound drilling template.

* Two of the bolts in the bolt pattern are under the yoke feet and not used (except for 3").

All cast iron surfaces, except machined surfaces, to be finished with NSF61 (TNEMEC 140-1211) coating.

Flange mounting gasket and fasteners are not included, and must be ordered separately.

Also available in Cast T316 Stainless Steel.



CAST IRON MUD VALVES
NON-RISING STEM TYPE

Drawn to Scale

Drawn: FCN 10/16/17

Revision: B FCN 02/13/20

Trumbull Manufacturing
Youngstown, Ohio
www.trumbull-mfg.com

Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16**	18**	20**	24**
A - Overall height, closed	9-3/4	9-3/4	11	11-3/4	12-3/4	13	14-1/2	16-3/4	18-3/4	19-3/4	23-1/2
A - Overall height, open	12	11-7/8	14-3/8	15/3/4	16-3/4	18	21-1/2	24-3/4	27-3/4	29-3/4	35-1/2
B - Width at Yoke	10	10	12-3/8	14-1/2	17	19-3/4	22-3/4	24-5/8	28-1/2	30-5/8	37
C - Valve opening	2-1/4	2-1/8	3-3/8	4	4	5	7	8	9	10	12
D - Basin depth in floor, min.	1-3/8	1-3/8	1-5/8	1-5/8	1-5/8	1-3/4	1-3/4	1-7/8	2-1/8	2-1/4	2-5/8
E - Flange Thickness	3/4	13/16	1	7/8	7/8	1	1-1/8	1-1/4	1-3/8	1-9/16	1-7/8
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21	23-1/2	25	27-1/2	32
Bolt Circle	6.0	7.5	9.5	11.75	14.25	17.0	18.75	21.25	22.75	25.0	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt Dia.	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern* (except 3")	4	8*	8*	8*	12*	12*	12*	16*	16*	20*	20*
Stem Diameter	1	1	1-1/8	1-1/4	1-3/8	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	10-1/2	11	17	20-1/2	20	25	35	40	45	50	60
Weight, pounds	26.3	30	46	73	110	130	140	165	240	280	450

Standard 125 pound drilling template.

* Two of the bolts in the bolt pattern are under the yoke feet and not used.

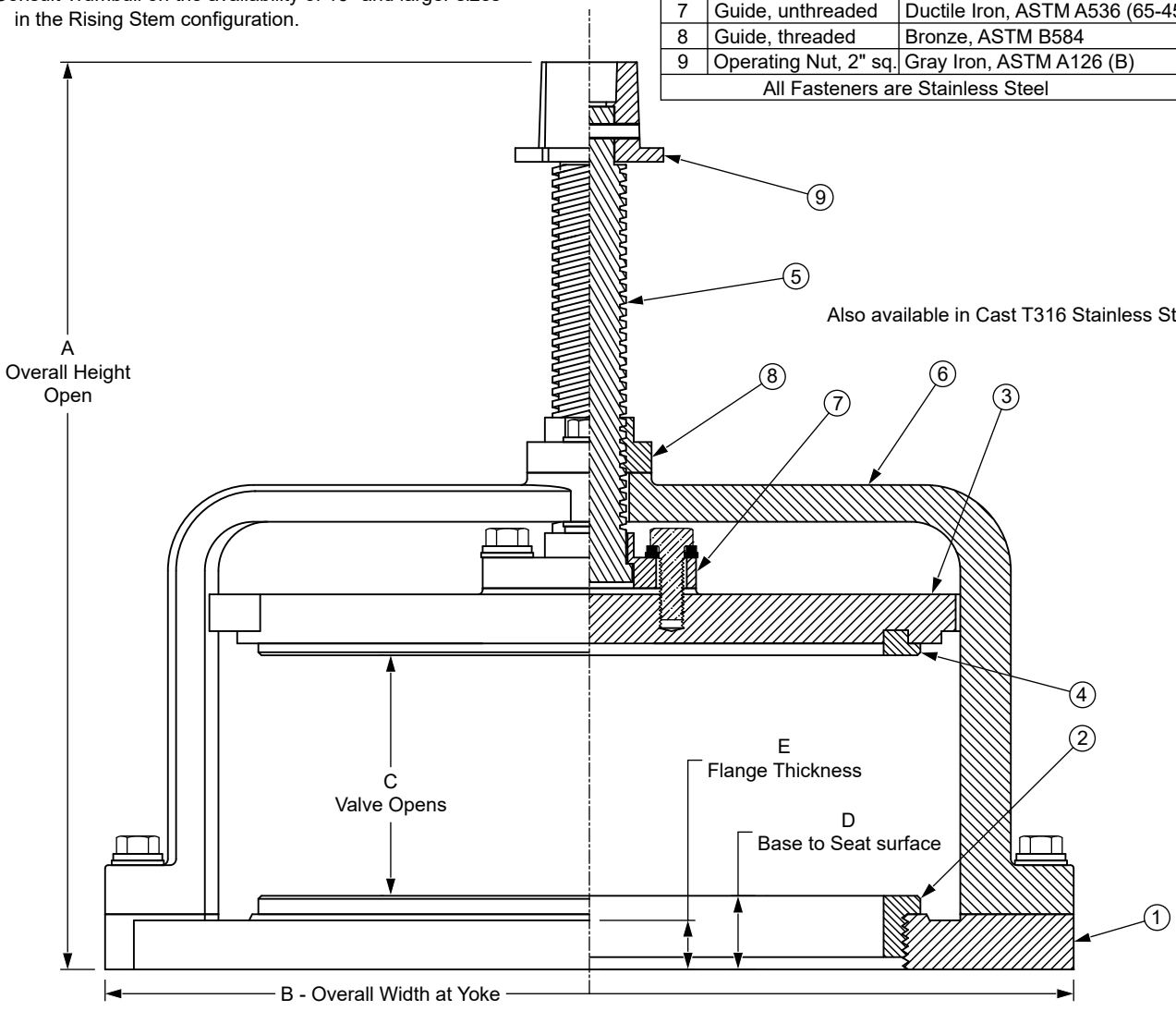
All cast iron surfaces, except machined surfaces, to be finished with NSF61 (TNEMEC 140-1211) coating.

Flange mounting gasket and fasteners are not included, and must be ordered separately.

** Consult Trumbull on the availability of 16" and larger sizes in the Rising Stem configuration.

Item	Part	Materials
1	Base Flange (Body)	Gray Iron, ASTM A126 (B)
2	Seat, Base Flange	Bronze, ASTM B62; B584
3	Gate	Ductile Iron, ASTM A536 (65-45-12)
4	Seat, Gate	Bronze, ASTM B62; B584
5	Stem	Bronze, ASTM B584
6	Yoke	Ductile Iron, ASTM A536 (65-45-12)
7	Guide, unthreaded	Ductile Iron, ASTM A536 (65-45-12)
8	Guide, threaded	Bronze, ASTM B584
9	Operating Nut, 2" sq.	Gray Iron, ASTM A126 (B)
All Fasteners are Stainless Steel		

Also available in Cast T316 Stainless Steel.



CAST IRON MUD VALVES
RISING STEM TYPE

Drawn to Scale

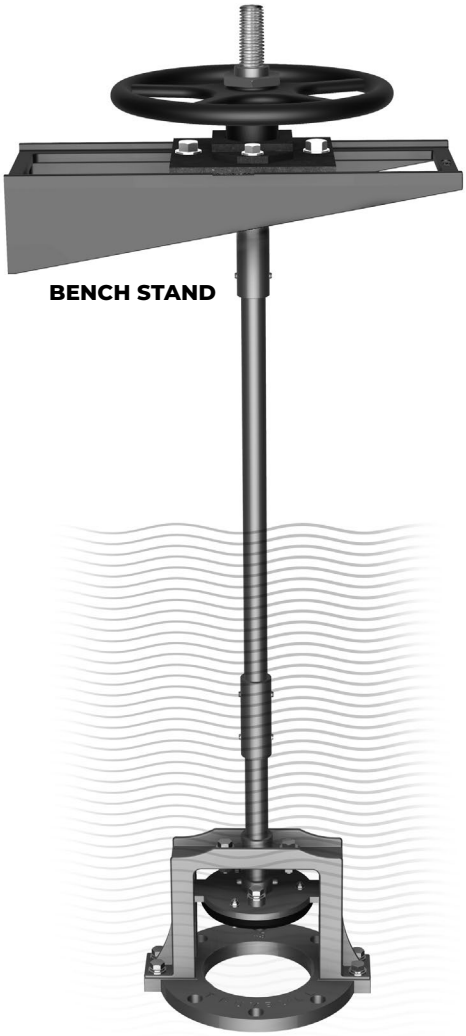
Drawn:	Revision:	
FCN	B	FCN
10/16/17		02/13/20

Trumbull Manufacturing
Youngstown, Ohio
www.trumbull-mfg.com

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OTHER ADAPTATIONS

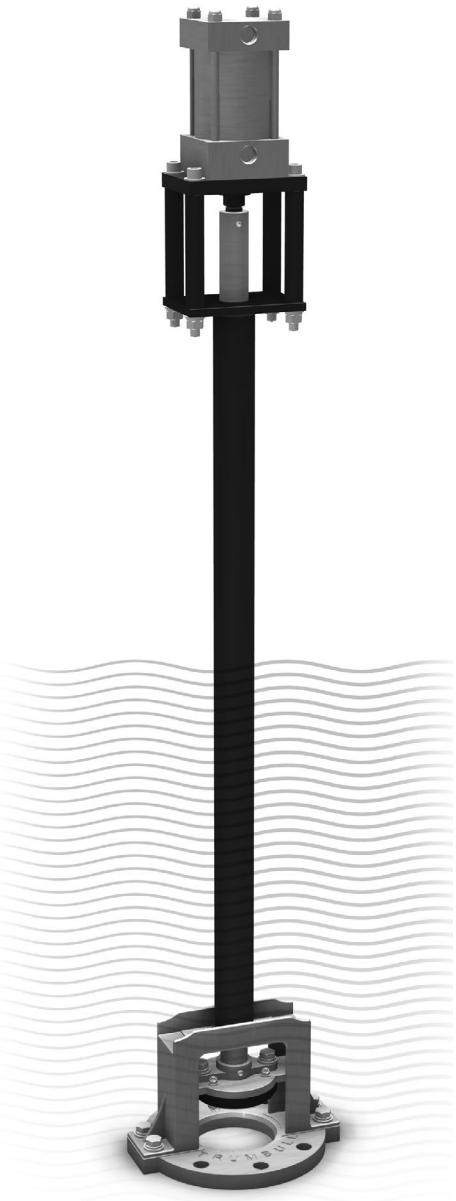
For Trumbull Mud Valves



BENCH STAND

SLIDING STEM MUD VALVE

Available when desirable to keep operating threads out of the water.



STAINLESS STEEL MUD VALVE EXTENDED BONNET WITH PNEUMATIC CYLINDER

For remote operation.



FLOORSTAND WITH LIMIT SWITCHES

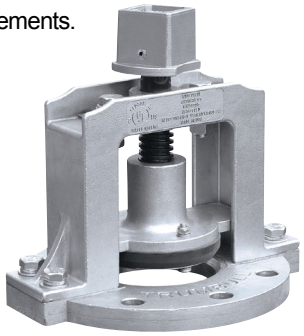
For remote indication of valve position.

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CAST 316 STAINLESS STEEL MUD VALVES

Heavy-Duty Design – Certified to NSF-61 and NSF-372 in USA and Canada

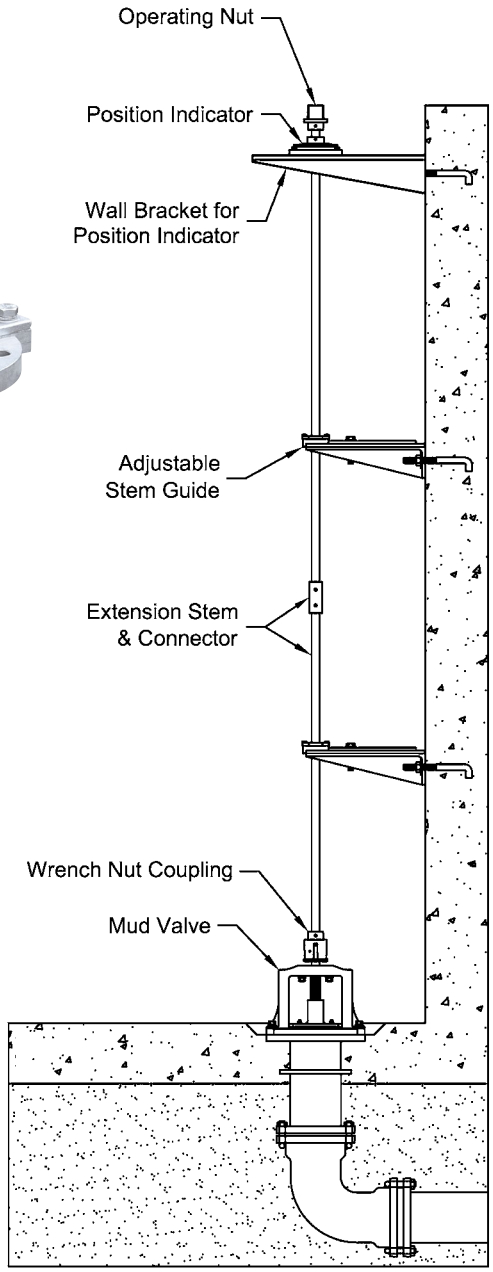
Trumbull Mud Valves are designed primarily for use in settling tanks of water and wastewater treatment plants. Their intended use is to drain tanks for maintenance or cleaning. They are for low pressure applications only; consult Trumbull for special requirements.



For applications requiring more corrosion protection than cast iron, the yoke, flange, guides and gate of these Mud Valves are cast from Type 316 stainless steel. The one-piece, Type 316 stem has a permanently bonded coating to protect against galling for a lifetime of maintenance-free operation.

Cast components eliminate corrosion problems frequently caused when stainless steel is welded. Castings are passivated after machining, per ASTM A-967. Heavy-duty design incorporates generous wall thicneses and stem diameters for maximum strength and corrosion protection. Seat is SBR rubber for positive shutoff. Mechanically retained seat is field-replaceable. Fasteners are Type 316 stainless. See pages 8 and 9 for drawings.

Nuts, bolts and gaskets for mounting to floor pipe are NOT furnished but can be ordered separately.



Typical Mud Valve Installation
See page G-34 for installation options.

	Non-Rising Stem**		Rising Stem**	
Size	*Domestic Item №*	*Non-Domestic Item №*	*Domestic Item №*	*Non-Domestic Item №*
3”	1367-1349	367-1453	1367-1369 *	367-1469
4”	1367-1350	367-1454	1367-1370 *	367-1470
6”	1367-1351	367-1455	1367-1371 *	367-1472
8”	1367-1352	367-1456	1367-1372 *	367-1474
10”	1367-1353	367-1457	1367-1373 *	367-1480
12”	1367-1354	367-1458	1367-1374 *	367-1481
14”	1367-1355 *	367-1459		
16”	1367-1356 *	367-1460		
18”	1367-1357 *	367-1461	*	*
20”	1367-1358 *	367-1462		
24”	1367-1359 *	367-1463		

* Consult Trumbull for availability.
** For product weights, see drawings on Pages 8 & 9.

Valve Position Indicators recommended on all Mud Valves (see page F-9).



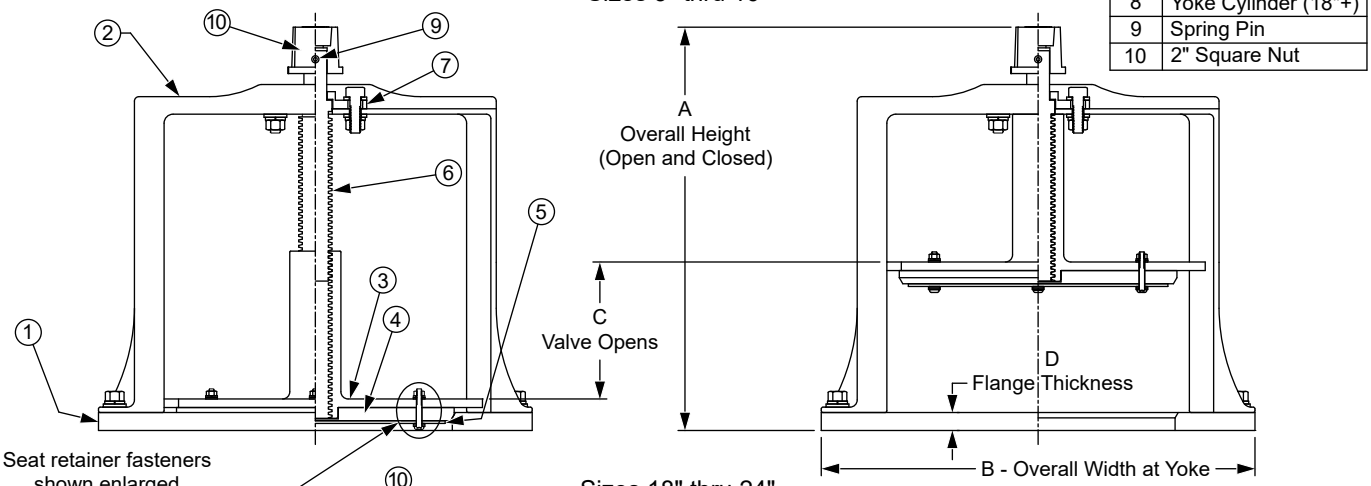
© 2026 Trumbull Manufacturing

Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16	18	20	24
A - Overall height	9	8	10-1/2	12-1/2	14-1/2	17	23	21-1/4	23	25-3/4	34-5/8
B - Width at Yoke	8	10-1/4	12-5/8	15-1/8	17-3/8	19	25-3/4	25-3/4	27-3/4	27-1/2	32
C - Valve opening	1-1/2	1-3/4	2-3/4	3-1/2	4-3/4	6	7-3/8	7-1/2	8-1/4	9-1/4	12
D - Flange thickness	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21.0	23-1/2	25	27-1/2	32
Bolt Circle Diameter	6.00	7.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt / Stud Size	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern*	4	8	8	8	12	12	12	16	16	20	20
Stem Diameter	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	7	9	15-1/2	20	26	30	37	20-1/2	23	48-1/2	60
Weight, pounds	19-1/2	24-1/2	33-1/2	48	65	88	125	142	186	206	230

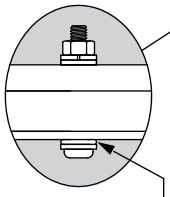
* Standard 125 pound drilling template, with two holes covered by the Yoke (except for 3").
Flange mounting gasket and fasteners are not included, and must be ordered separately.
All items, except for the Seal and the sealing washers are Type 316 Stainless Steel.
Seal and sealing washers are SBR.
All Fasteners are Stainless Steel, Type 316, ASTM A193, Grade B
Stem is coated and greased to prevent galling.
Basin depth in floor for complete draining, 1" minimum.

Part	Description
1	Base Flange (Body)
2	Yoke
3	Gate
4	Seat
5	Seat Retainer
6	Stem
7	Guide, Plain
8	Yoke Cylinder (18"+)
9	Spring Pin
10	2" Square Nut

Sizes 3" thru 16"



Seat retainer fasteners shown enlarged typical, all valves



Sealing washer

Sizes 18" thru 24"

CAST T316 SS MUD VALVES NON-RISING STEM TYPE

Drawn to Scale

Drawn: FCN 07/24/07

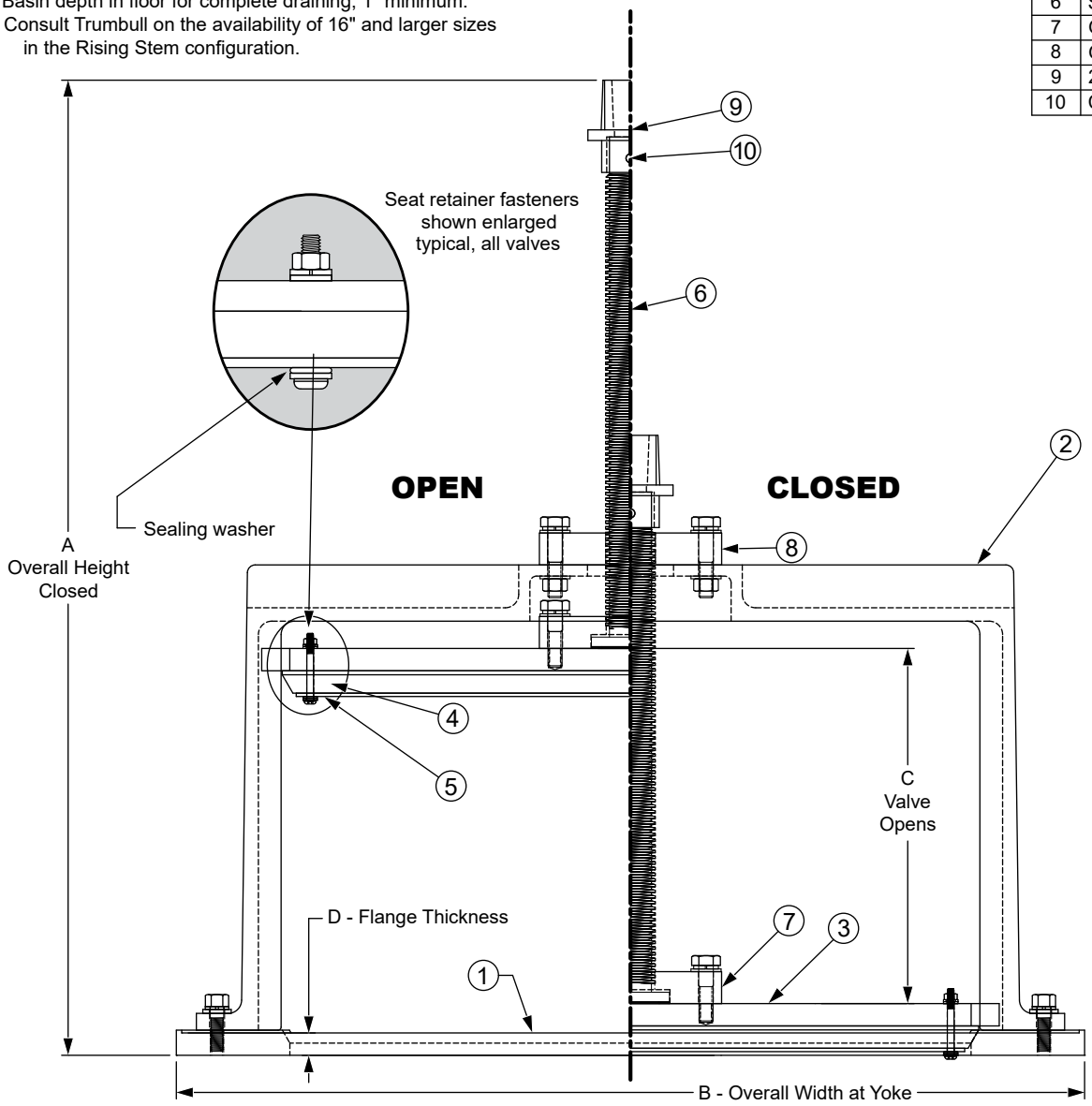
Revision: F FCN 02/07/20

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Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16	18	20	24
A - Overall height, closed	9	8-3/4	10-1/2	12-1/2	14	17	23	23	18	18	23
A - Overall height, open	10-1/2	11-1/2	16	19-1/4	22-3/4	28-1/2	39	39	27	28	35
B - Width at Yoke	8	10-1/4	12-5/8	15-1/8	17-3/8	19	25-3/4	25-3/4	27-3/4	27-1/2	32
C - Valve opening	1-1/2	2-1/4	5	7	8-1/4	11-1/2	16	16	9	10	12
D - Flange thickness	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21.0	23-1/2	25	27-1/2	32
Bolt Circle Diameter	6.00	7.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt / Stud Size	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern*	4	8	8	8	12	12	12	16	16	20	20
Stem Diameter	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	7	13-1/2	26-1/2	30-1/2	36-1/2	50-1/2	80	80	45	50	60
Weight, pounds	19-1/2	25	34	48	59	78	142	142	155	164	218

Standard 125 pound drilling template, with two holes covered by the Yoke.
Flange mounting gasket and fasteners are not included, and must be ordered separately.
All items, except for the Seal and the sealing washers are Type 316 Stainless Steel.
Seal and sealing washers are SBR.
All Fasteners are Stainless Steel, Type 316, ASTM A193, Grade B
Stem is coated and greased to prevent galling.
Basin depth in floor for complete draining, 1" minimum.
Consult Trumbull on the availability of 16" and larger sizes in the Rising Stem configuration.

Part	Description
1	Base Flange (Body)
2	Yoke
3	Gate
4	Seat
5	Seat Retainer
6	Stem
7	Guide, Unthreaded
8	Guide, Threaded
9	2" Square Nut
10	Coil Type Spring Pin



CAST T316SS MUD VALVES RISING STEM TYPE

Drawn to Scale

Drawn:	Revision:	
FCN	NJC	
10/16/17	C	03/19/20

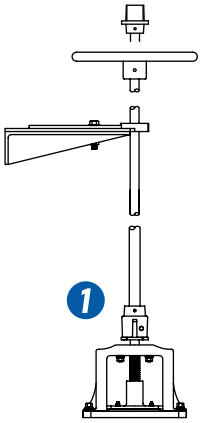
Trumbull Manufacturing
Youngstown, Ohio
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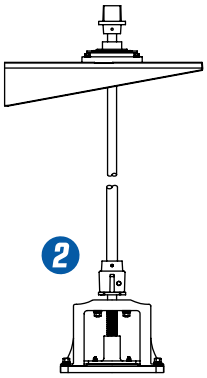
OPTIONAL MUD VALVE INSTALLATIONS

Standard options shown on right

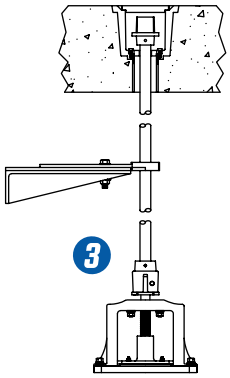
Mud Valve: Cast iron or cast 316 stainless steel
Stem Guide: Ductile iron or cast 316 stainless steel
Floorstand: Ductile iron (30" or 36") or cast 316 SS (36")
Pedestal: Ductile iron or cast 316 SS
Extension Stem: Carbon steel or stainless steel
Wall Bracket: Ductile iron or cast 316 stainless steel
Floor Box: Sealed or unsealed, cast iron or cast SS



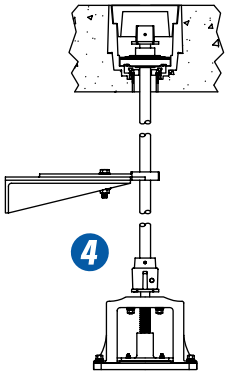
Stem Guide with Handwheel or 2" square nut



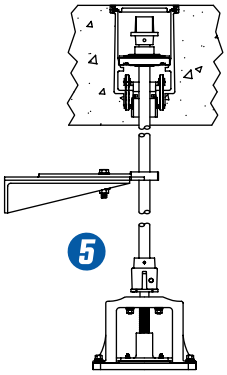
Wall Bracket with Position Indicator



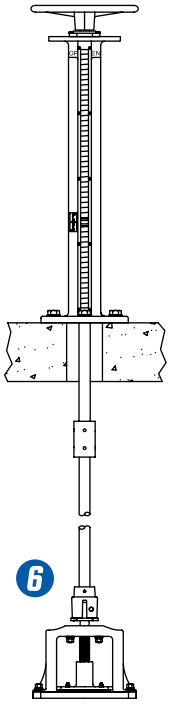
Floor Box w/out Position Indicator



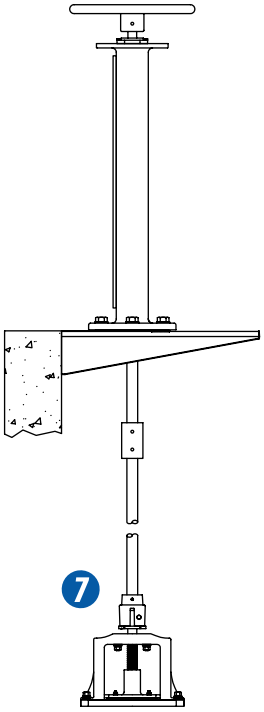
Floor Box with Position Indicator



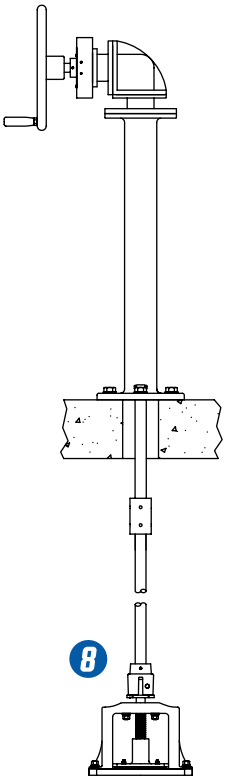
Cast Sealed Floor Box with Position Indicator



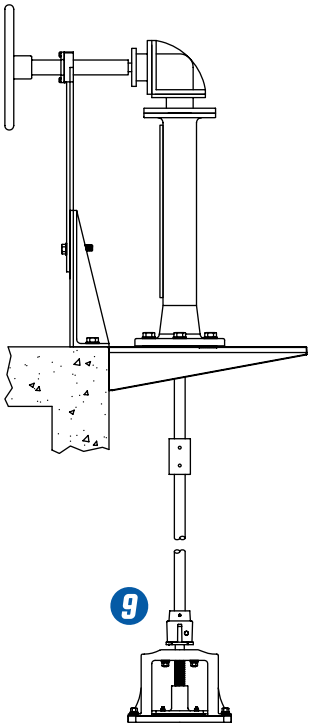
Indicating Floorstand



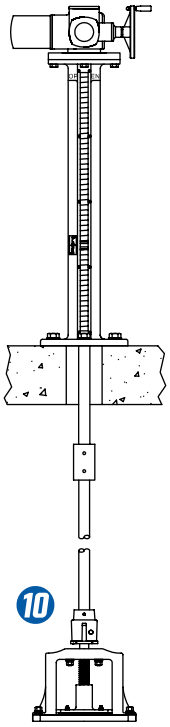
Indicating Floorstand with Wall Bracket*



Pedestal with Miter Gear, Crank Handwheel & Position Indicator (57T or 275T only)



Indicating Floorstand with Wall Bracket, Miter Gear & Horizontal Extension Stem*



Indicating Floor-stand with Actuator

* Indicating slot faces operator and is not visible in installations 7 and 9.

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STAINLESS MUD VALVE DESIGN & TEST RESULTS

Independent Testing of Stainless Mud Valves

STORK® Materials Technology

Stork Herron Testing Laboratories

8/13/2008

F Craig Newmeyer
Trumbull Industries
1040 N Meridian Rd
PO Box 1556
Youngstown, OH 44501-1556

Date Received: 1/30/2008

Test Report No.: TRU040-08-01-53169-1

P.O. No.: EXPIRED

Material Testing and Non-Destructive Testing

5405 E. Schaaf Road
Cleveland, OH 44131
USA

Telephone : (216) 524-1450
Fax : (216) 524-1459
Website : www.storkherron.com

TEST REPORT

SET-UP

Three (3) T316 Stainless Steel 6" Mud Valves were assembled and tested as shown in Figure 1.

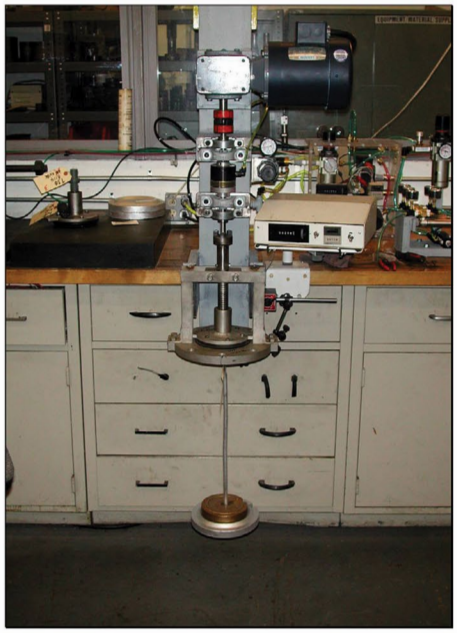


FIGURE 1

Test Report & Video of Independent Testing available upon request.

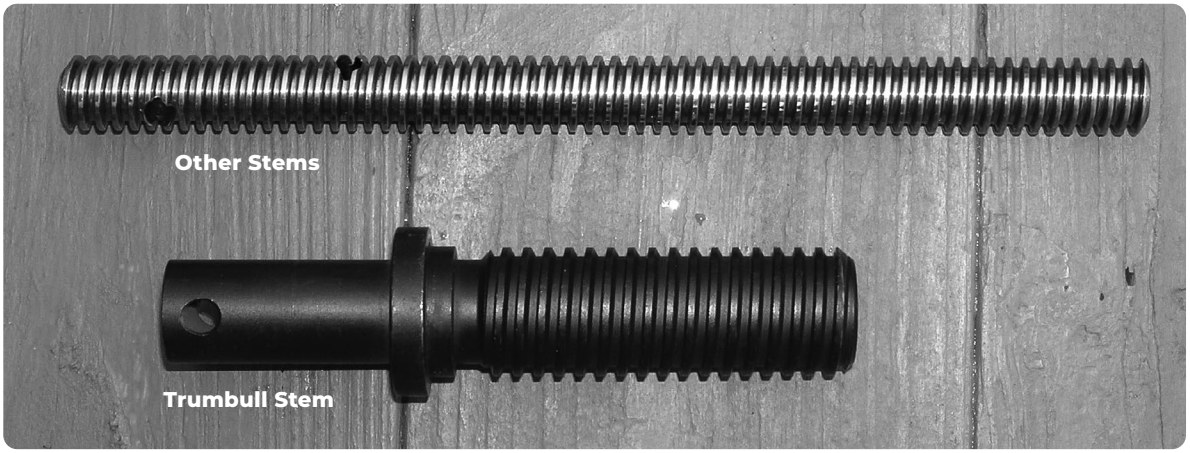
The above services were performed in accordance with Herron Testing Laboratories' Quality Assurance Program Edition 1, Revision 2 dated 1/30/07. Information and statements in this report are derived from material, information and/or specifications furnished by the client and exclude any expressed or implied warranties as to the fitness of the material tested or analyzed for any particular purpose or use. This report is the confidential property of our client and may not be used for advertising purposes. This report shall not be reproduced except in full, without written approval of this laboratory. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal Statutes.
Sample remnants are held for a minimum of 30 days following issuance of test results, at which point they will be discarded unless notified in writing by the client. This material was not contaminated by mercury or chlorinated solvents during the handling and processing at Stork-Herron Testing Laboratories facilities.

Michael R. Gaydos
General Manager, COO

Page 1 of 5

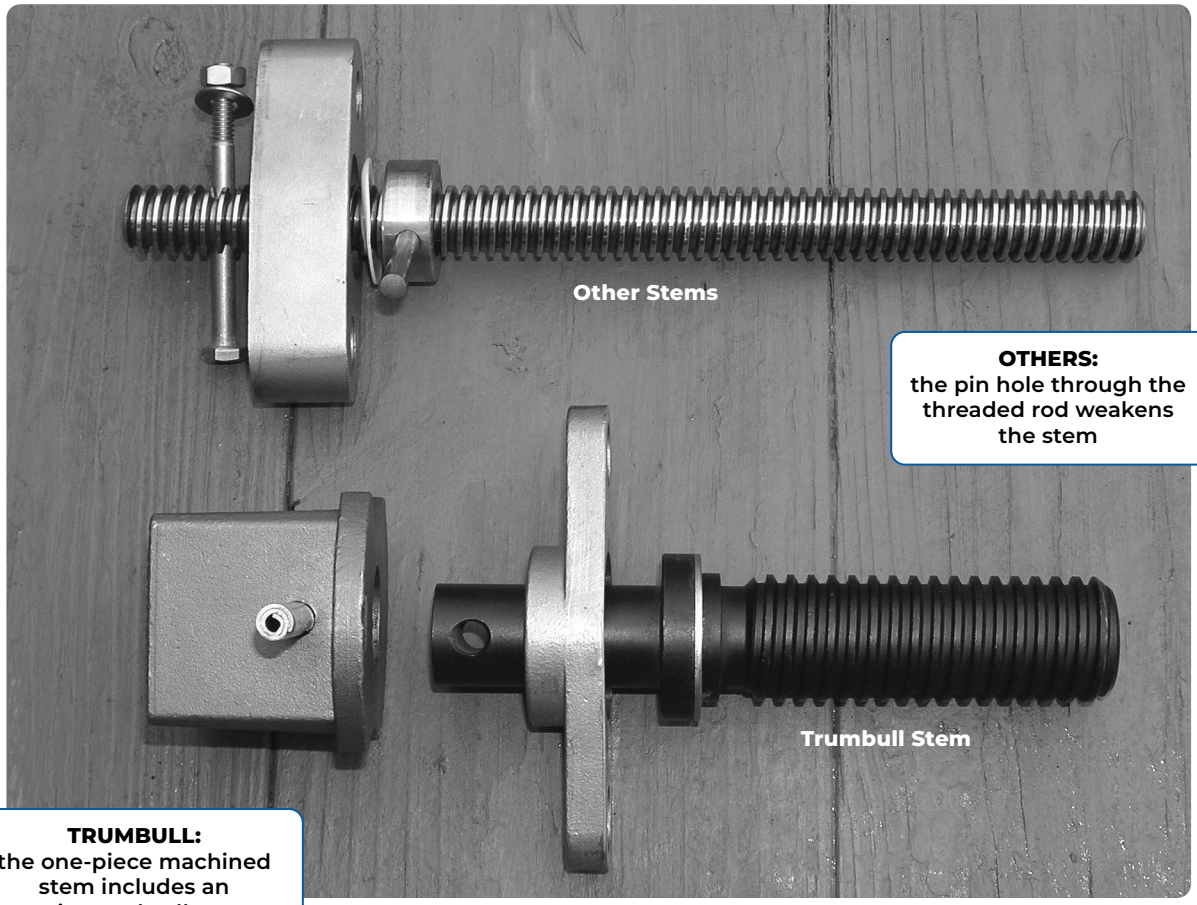
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STEM DIAMETERS



STEM DESIGNS

Trumbull Stem is Machined One-Piece, vs. All-Thread Rod with a Pinned Collar



OTHERS:
the pin hole through the threaded rod weakens the stem

TRUMBULL:
the one-piece machined stem includes an integral collar

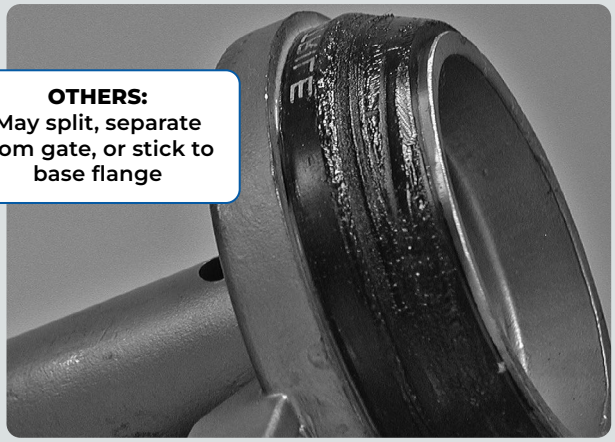
RESULTS OF TORQUE TESTING BY INDEPENDENT TEST LAB:

Stem with drilled holes **= 165 ft-lb** (fastener and stem failed)
Trumbull one-piece stem **= 625 ft-lb** (connecting pin sheared, stem intact)

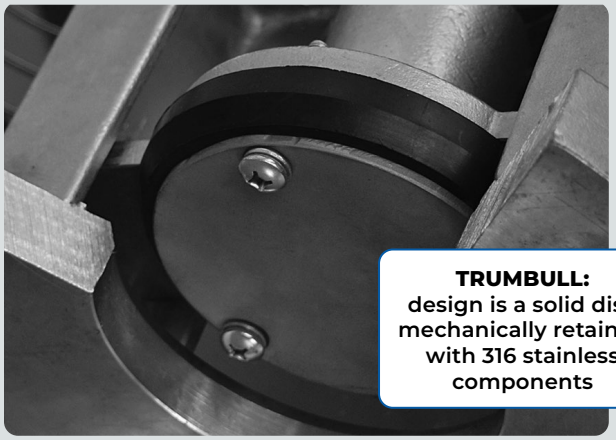
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SEAT DESIGN

Stainless Mud Valves



OTHERS:
May split, separate from gate, or stick to base flange



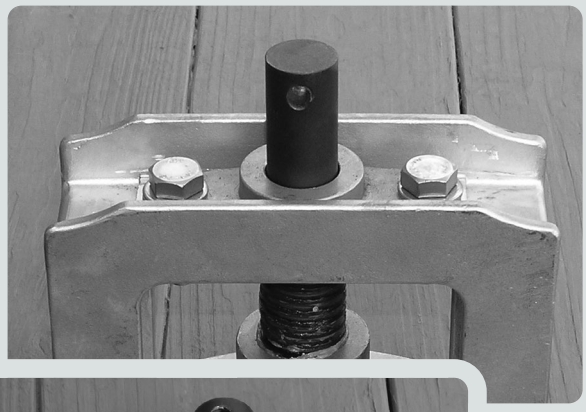
TRUMBULL:
design is a solid disk mechanically retained with 316 stainless components

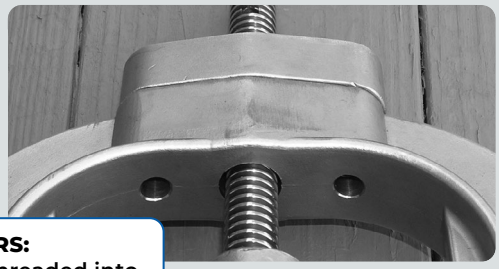
Trumbull's standard seating material is SBR rubber; optional seat materials available, including BUNA, EPDM & Viton.

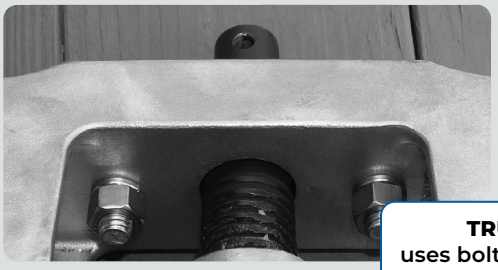
YOKE BOLT DESIGN

Stainless Mud Valves









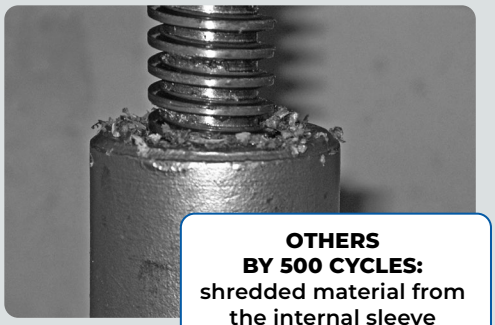
OTHERS:
stainless bolts threaded into tapped holes may gall and require a bolt extractor

TRUMBULL:
uses bolted attachment for easy removal, if necessary

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CYCLE TESTS

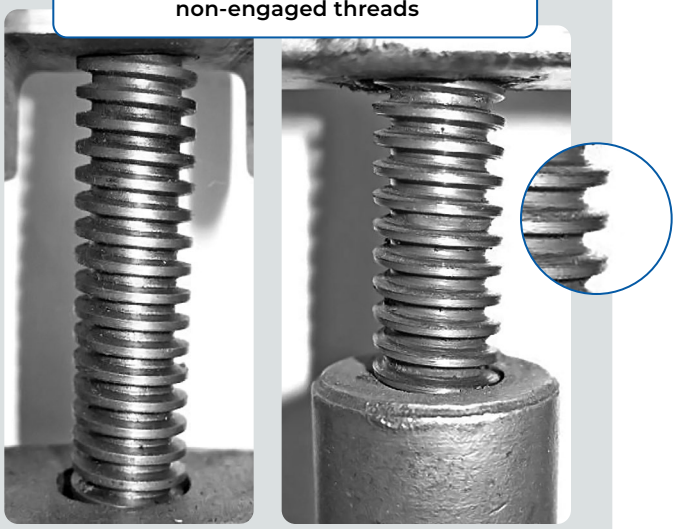
Independent Testing of Stainless Mud Valves



OTHERS
BY 500 CYCLES:
shredded material from the internal sleeve was ejected

# of Cycles	Results of Other Models
500	Nylon sleeve damage
700	Nylon sleeve completely shredded
1,000	Build-up of fine metal shavings
1,308	Required increased torque to continue rotation
5,000	Deformation of threads

OTHERS
BY 7,500 CYCLES:
stem threads that engaged the internal threads during cycling showed deformation when compared to non-engaged threads



Non-Engaged **Engaged**

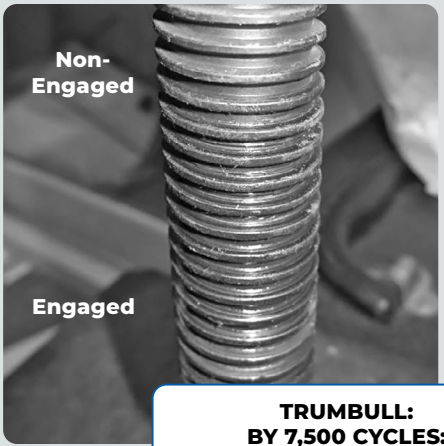
TESTING OF TRUMBULL'S MUD VALVE:
Stem has anti-galling coating with anti-seize lubricant

AFTER 7,500 CYCLES:
- no damage
- slight wear

AFTER 15,000 CYCLES:
- no damage
- slight wear



TRUMBULL:
BY 500 CYCLES:
little wear and no damage to stem or internal thread



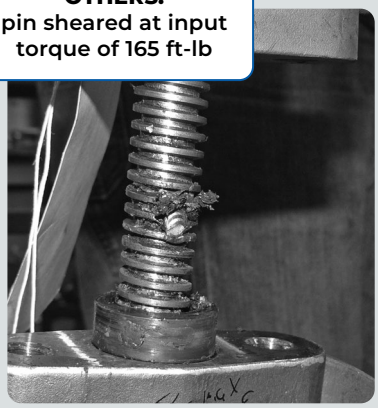
TRUMBULL:
BY 7,500 CYCLES:
stem threads that engaged the internal threads during cycling showed some wear and no damage when compared to non-engaged threads

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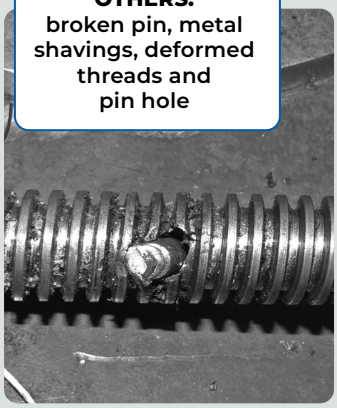
TORQUE TESTS

Independent Testing of Stainless Mud Valves

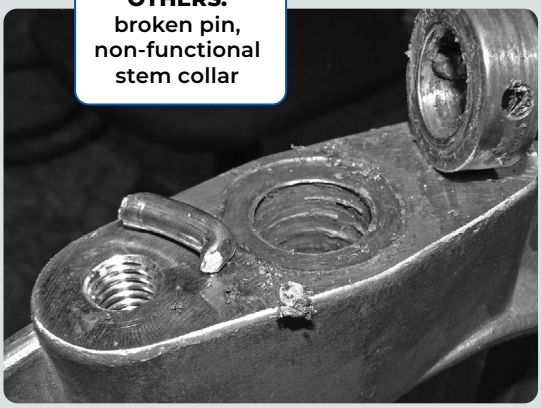
OTHERS:
pin sheared at input torque of 165 ft-lb



OTHERS:
broken pin, metal shavings, deformed threads and pin hole



OTHERS:
broken pin, non-functional stem collar





TRUMBULL:
pin sheared at input torque of 625 ft-lb

Test Report & Video of Independent Testing
available upon request.

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