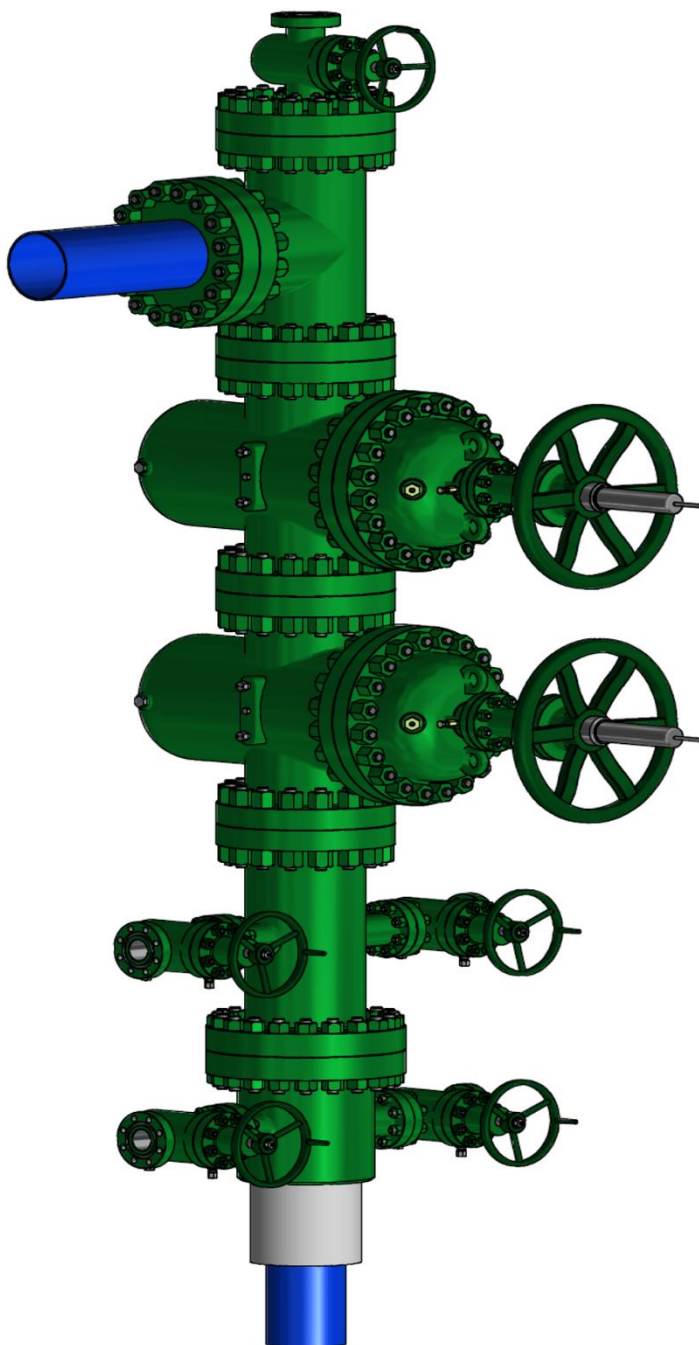




EZ SEAL

GEO THERMAL PRODUCTS



GEO THERMAL PRODUCTS

22806 COMMERCIAL LANE TOMBALL, TEXAS 77375
WWW.EPITEXAS.COM

EZ-GPC-05-17



EPI Valves Texas, LLC
22806 Commercial Lane
Tomball, Texas 77375

EPI VALVES TEXAS, LLC

A COMPANY SNAPSHOT

EPI Valves Texas was incorporated in the State of Texas, July 2011. We have been steadily increasing our business and customer base each year since. Our aim is to be easy to work with, extremely responsive, and quick to solve any issue with any facet of the business.

We implemented an API Q1 compliant quality management system in early 2014 and since received our API 6D Certificate in January 2015. We constantly monitor our key performance indicators regarding on-time delivery, scrap rates, rework, and customer satisfaction. Our current customer satisfaction rate is 100%. This number is based on customer surveys sent with each order we ship.

Our customer base also has steadily increased since 2011. We like to believe it is due in part because we here at EPI Valves do the little things that other manufacturers' won't.

- We mark the seat dimensions on the valve body for quick referencing and easy recognition.
- We test each and every valve that comes into our facility.
- We welcome third-party or customer witnesses.
- We provide a complete quality document package with test reports and test charts at no additional charge.
- We perform complete dimensional "As Built," drawings..
- We follow up with each customer and order with a customer satisfaction survey.

EPI Valves Texas values your business and will work diligently and responsively to satisfy requirements.

Sincerely,

Bill Godare
EPI Valves Texas, LLC



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E-Z SEAL EXPANDING GATE VALVE

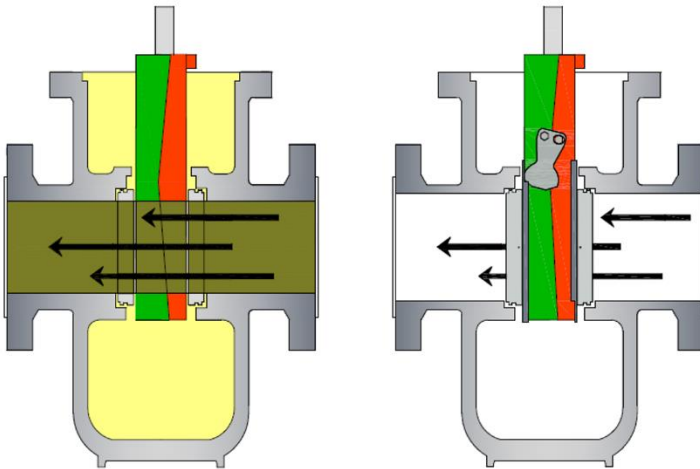
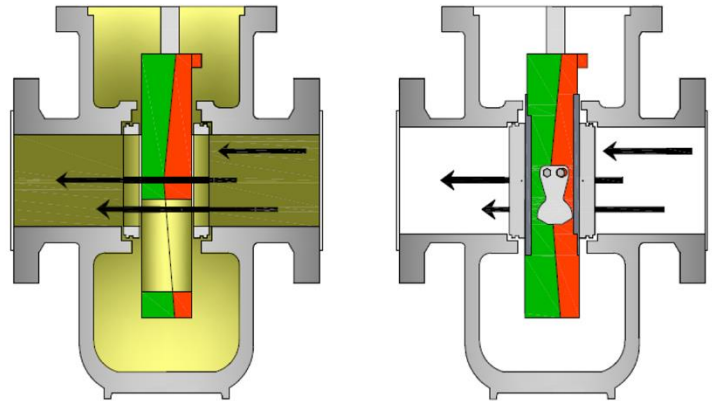


OPERATING PRINCIPLE

The E-Z SEAL Expanding Gate Valve design is the premiere choice when a full port, through-conduit, mechanically sealing gate valve is required. For geothermal applications, this valve provides a mechanically set seat second to none. The optional EPI GeoShield protective coating not only protects the seat and gate sealing surfaces, but the entire surface area of both the gate and seat sets. While at the same time providing a truly affordable alternative to Stellite hard-facing. The EPI GeoShield protection also affords lubricity and reduces operating torques.

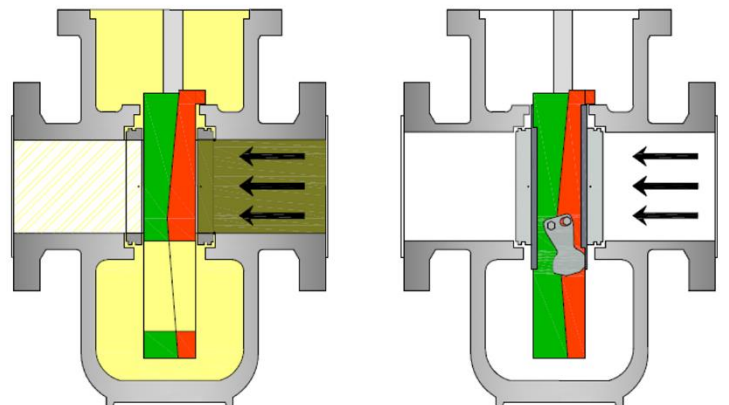
HOW THE E-Z SEAL EXPANDING GATE VALVE WORKS

- 1 During open and closing travel, the gate and segment assembly is collapsed with both back angle surfaces in contact. The centralizer mechanism prevents relative movement between the gate and segment allowing the gate and segment assembly to travel freely without sticking or wedging.



- 2 Traveling to the final open position the lower back angles are in contact with each other. With further upward movement of the gate with the segment stopped, the centralizer mechanism allows the gate and segment assembly to expand, sealing against both seats, protecting the seat faces from, while isolating the body cavity from the flow bore.

- 3 Traveling to the final closed position, the upper back angles of the gate and segment move into contact with each other. With further downward movement of the gate while the segment is stopped, the centralizer mechanism allow the gate and segment assembly to expand, sealing against both seats, forming a tight mechanical seal.





E-Z SEAL EXPANDING GATE VALVE TRIM CHART



TRIM CHART & RECOMMENDED SPARE PARTS

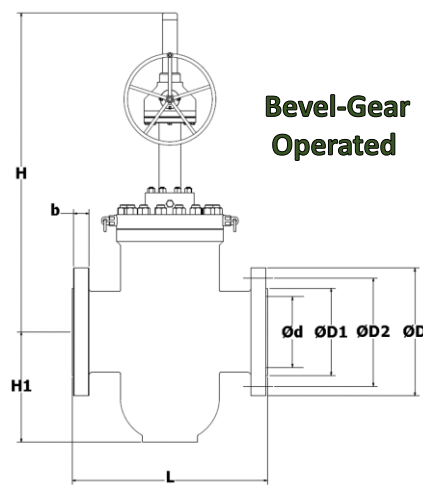
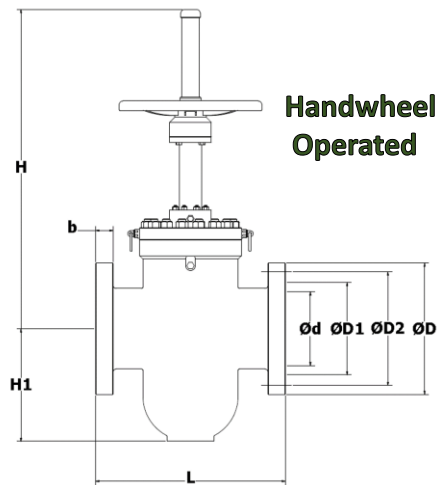
TRIM CHART		
COMPONENT	RECOMMENDED SPARE PARTS	E08 TRIM
		GEOTHERMAL SERVICE
		OPERATING TEMP. 650°F MAX.
BODY		ASTM A216 WCC
BODY DRAIN PLUG		316 STAINLESS STEEL
GATE	**	ASTM A216 WCC + GEOSHIELD or EQ
SEGMENT		ASTM A216 WCC + GEOSHIELD or EQ
SEATS	**	A105 + GEOSHIELD
SEAT SEGMENT SKIRTS		A36 + GEOSHIELD
SEAT INSERTS	**	RPTFE
SEAT O-RINGS		AFLAS
BONNET		ASTM A216 WCC or EQ
BONNET GASKET	**	AFLAS
SEAT SEALANT FITTINGS	**	316 STAINLESS STEEL
STEM	**	17-4PH SS
YOKE	**	AISI 1020 STEEL or EQ
STEM NUT	**	ALUMINUM BRONZE
STEM PACKING	**	RPTFE + GRAPHITE
GLAND		CARBON STEEL
PACKING FITTING	**	316 STAINLESS STEEL
BODY VENT FITTING	**	316 STAINLESS STEEL
STUDS		ASTM A193 Gr.B7M
NUTS		ASTM A194 Gr.2HM
HANDWHEEL		CAST IRON
STEM PROTECTOR		CLEAR PLASTIC / STEEL
HEX SCREWS		ASTM 1045
LEVER LOCK ARMS		CARBON STEEL or EQ
LEVER LOCK ARM PINS		ASTM A276-410 SS or EQ
CYLINDRICAL PIN		CARBON STEEL
ORIENTATION BLOCK		CARBON STEEL + GEOSHIELD or EQ

NACE Compliant - National Association of Corrosion Engineers, STD MR01.75



E-Z SEAL EXPANDING GATE VALVE WEIGHTS & DIMENSIONS

CLASS 300



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

API Specification 6D

**12 3/8" Minimum Bore for Geothermal Only.*

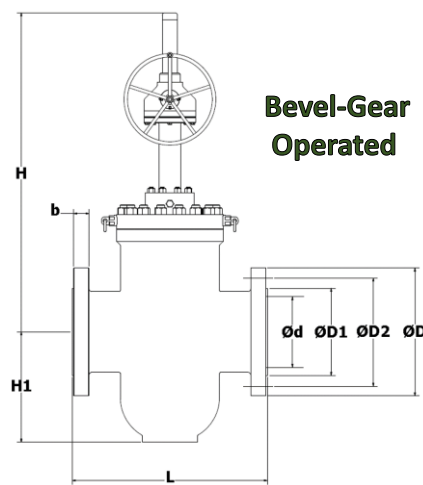
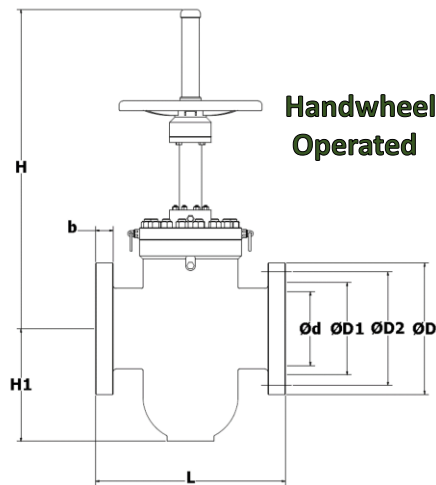
PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 300 HANDWHEEL OPERATED	4"	12.00" / 12.63"	3.94"	6.19" / R-37	7.88"	10.00"	8-Ø0.866"	1.27"	7.50"	31.00"	189 (86)
	6"	15.88" / 16.50"	5.94"	8.50" / R-45	10.63"	12.50"	12-Ø0.866"	1.46"	13.50"	42.88"	312 (142)
	8"	16.50" / 17.13"	7.94"	10.63" / R-49	13.00"	15.00"	12-Ø0.984"	1.64"	15.75"	47.24"	561 (255)
	10"	18.00" / 18.63"	9.94"	12.75" / R-53	15.25"	17.50"	16-Ø1.14"	1.89"	22.00"	54.72"	737 (335)
	12"	19.75" / 20.38"	11.94"	15.00" / R-57	17.75"	20.50"	16-Ø1.26"	2.02"	23.00"	63.78"	1342 (610)
ANSI 300 BEVEL-GEAR OPERATED	4"	12.00" / 12.63"	3.94"	6.19" / R-37	7.88"	10.00"	8-Ø0.866"	1.27"	7.50"	31.00"	189 (86)
	6"	15.88" / 16.50"	5.94"	8.50" / R-45	10.63"	12.50"	12-Ø0.866"	1.46"	13.50"	42.88"	312 (142)
	8"	16.50" / 17.13"	7.94"	10.63" / R-49	13.00"	15.00"	12-Ø0.984"	1.64"	15.75"	47.24"	561 (255)
	10"	18.00" / 18.63"	9.94"	12.75" / R-53	15.25"	17.50"	16-Ø1.14"	1.89"	22.00"	54.72"	737 (335)
	12"	19.75" / 20.38"	11.94"	15.00" / R-57	17.75"	20.50"	16-Ø1.26"	2.02"	23.00"	63.78"	1342 (610)
ANSI 300 BEVEL-GEAR OPERATED	14"	30.00" / 30.63"	13.19"	16.25" / R-62	22.00"	23.00"	20-Ø1.26"	2.14"	25.79"	63.39"	1991 (905)
	16"	33.00" / 33.63"	15.19"	18.50" / R-66	24.25"	25.50"	20-Ø1.38"	2.27"	28.58"	84.65"	2310 (1050)
	18"	36.00" / 36.63"	17.19"	21.00" / R-70	27.00"	28.00"	24-Ø1.38"	2.40"	31.97"	93.58"	3696 (1680)
	20"	39.00" / 39.75"	19.19"	23.00" / R-74	27.00"	30.50"	24-Ø1.38"	2.52"	35.39"	102.56"	3927 (1785)
	24"	45.00" / 45.88"	23.19"	27.25" / R-78	32.00"	36.00"	24-Ø1.61"	2.77"	41.77"	118.58"	5313 (2415)

***Dimensions are subject to change without notice.*



E-Z SEAL EXPANDING GATE VALVE WEIGHTS & DIMENSIONS

CLASS 600



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

API Specification 6D

**12 3/8" Minimum Bore for Geothermal Only.*

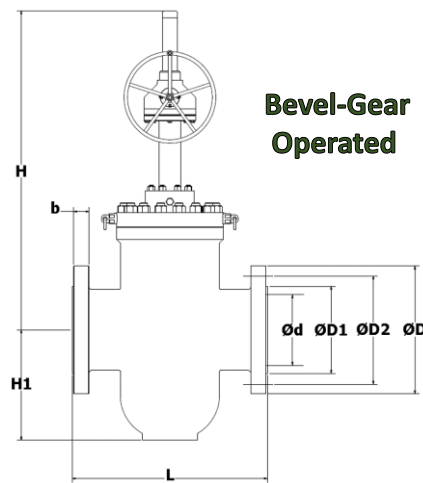
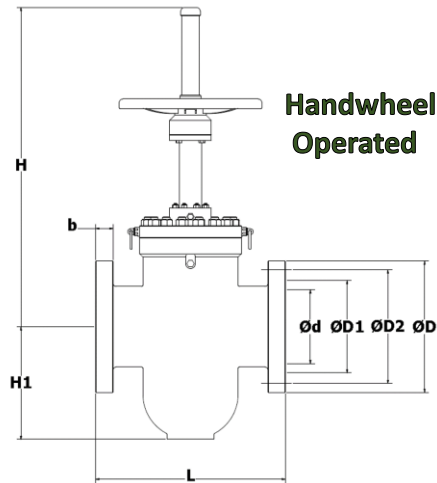
PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 600 HANDWHEEL OPERATED	4"	17.00" / 17.13"	3.94"	6.19" / R-37	8.50"	10.75"	8-Ø0.984"	1.50"	10.00"	32.00"	348 (158)
	6"	22.00" / 22.13"	5.94"	8.50" / R-45	11.50"	14.00"	12-Ø1.14"	1.88"	12.68"	45.28"	528 (240)
	8"	26.00" / 26.13"	7.94"	10.63" / R-49	13.75"	16.50"	12-Ø1.26"	2.19"	16.50"	47.24"	1034 (470)
	10"	31.00" / 31.13"	9.94"	12.75" / R-53	17.00"	20.00"	16-Ø1.38"	2.50"	20.00"	54.72"	2002 (910)
	12"	33.00" / 33.13"	12.38"	15.00" / R-57	19.25"	22.00"	20-Ø1.38"	2.63"	23.00"	63.78"	2420 (1100)
ANSI 600 BEVEL-GEAR OPERATED	4"	17.00" / 17.13"	3.94"	6.19" / R-37	8.50"	10.75"	8-Ø0.984"	1.50"	10.00"	32.00"	348 (158)
	6"	22.00" / 22.13"	5.94"	8.50" / R-45	11.50"	14.00"	12-Ø1.14"	1.88"	12.68"	45.28"	528 (240)
	8"	26.00" / 26.13"	7.94"	10.63" / R-49	13.75"	16.50"	12-Ø1.26"	2.19"	16.50"	47.24"	1034 (470)
	10"	31.00" / 31.13"	9.94"	12.75" / R-53	17.00"	20.00"	16-Ø1.38"	2.50"	20.00"	54.72"	2002 (910)
	12"	33.00" / 33.13"	12.38"	15.00" / R-57	19.25"	22.00"	20-Ø1.38"	2.63"	23.00"	63.78"	2420 (1100)
ANSI 600 BEVEL-GEAR OPERATED	14"	35.00" / 35.13"	13.19"	16.25" / R-61	20.75"	23.75"	20-Ø1.50"	2.75"	25.83"	72.00"	3410 (1550)
	16"	39.00" / 39.13"	15.19"	18.50" / R-65	23.75"	27.00"	20-Ø1.61"	3.00"	29.21"	78.15"	4389 (1995)
	18"	43.00" / 43.13"	17.19"	21.00" / R-69	25.75"	29.25"	24-Ø1.73"	3.25"	32.60"	88.19"	6270 (2850)
	20"	47.00" / 47.25"	19.19"	23.00" / R-73	28.50"	32.00"	24-Ø1.73"	3.50"	35.95"	98.30"	8778 (3990)
	24"	55.00" / 55.38"	23.19"	27.25" / R-77	33.00"	37.00"	24-Ø2.00"	4.00"	42.72"	117.10"	13860 (6300)

***Dimensions are subject to change without notice.*



E-Z SEAL EXPANDING GATE VALVE WEIGHTS & DIMENSIONS

CLASS 900



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

API Specification 6D

**12 3/8" Minimum Bore for Geothermal Only.*

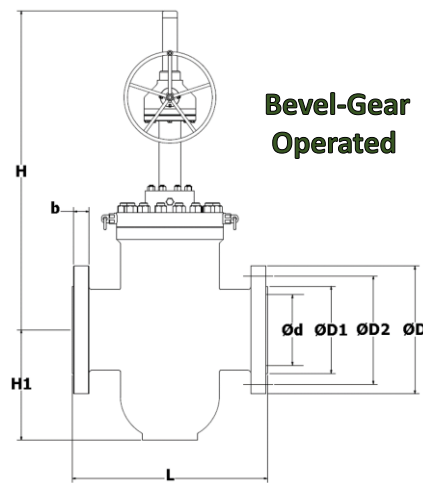
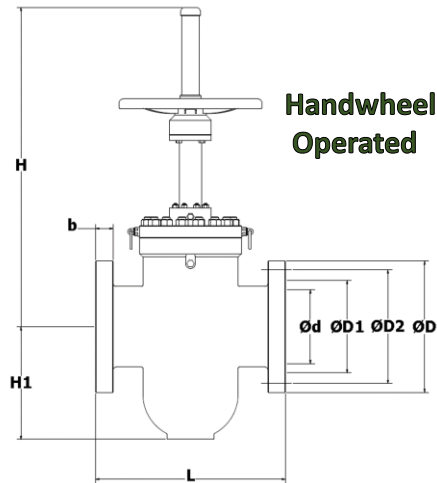
PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 900 HANDWHEEL OPERATED	4"	18.00" / 18.13"	3.94"	6.19" / R-37	9.25"	11.50"	8-Ø1.26"	1.75"	9.00"	31.00"	416 (189)
	6"	24.00" / 24.13"	5.94"	8.50" / R-45	12.50"	15.00"	12-Ø1.26"	2.19"	13.11"	40.00"	805 (366)
	8"	29.00" / 29.13"	7.94"	10.63" / R-49	15.50"	18.50"	12-Ø1.26"	2.50"	16.50"	47.24"	1,386 (630)
	10"	33.00" / 33.13"	9.94"	12.75" / R-53	18.50"	21.50"	16-Ø1.38"	2.75"	20.00"	57.17"	2420 (1100)
	12"	38.00" / 38.13"	12.38"	15.00" / R-57	24.00"	22.00"	20-Ø1.38"	3.13"	23.82"	66.73"	3465 (1575)
ANSI 900 BEVEL-GEAR OPERATED	4"	18.00" / 18.13"	3.94"	6.19" / R-37	9.25"	11.50"	8-Ø1.26"	1.75"	9.00"	31.00"	416 (189)
	6"	24.00" / 24.13"	5.94"	8.50" / R-45	12.50"	15.00"	12-Ø1.26"	2.19"	13.11"	40.00"	805 (366)
	8"	29.00" / 29.13"	7.94"	10.63" / R-49	15.50"	18.50"	12-Ø1.26"	2.50"	16.50"	47.24"	1386 (630)
	10"	33.00" / 33.13"	9.94"	12.75" / R-53	18.50"	21.50"	16-Ø1.38"	2.75"	20.00"	57.17"	2420 (1100)
	12"	38.00" / 38.13"	12.38"	15.00" / R-57	24.00"	22.00"	20-Ø1.38"	3.13"	23.82"	66.73"	3465 (1575)
ANSI 900 BEVEL-GEAR OPERATED	14"	40.50" / 40.88"	12.69"	16.25" / R-62	22.00"	25.24"	20-Ø1.61"	3.38"	26.58"	72.44"	4150 (1890)
	16"	44.50" / 44.88"	14.69"	18.50" / R-66	24.25"	27.76"	20-Ø1.73"	3.50"	29.72"	85.67"	5313 (2415)
	18"	48.00" / 48.50"	16.69"	21.00" / R-70	27.00"	31.00"	20-Ø2.00"	4.00"	33.11"	88.47"	7623 (3465)
	20"	52.00" / 52.50"	18.56"	23.00" / R-74	29.50"	33.75"	20-Ø2.13"	4.25"	36.54"	98.62"	11550 (5250)
	24"	61.00" / 61.75"	22.44"	27.25" / R-78	35.50"	41.00"	20-Ø2.64"	5.50"	43.62"	114.37"	18480 (8400)

***Dimensions are subject to change without notice.*



E-Z SEAL EXPANDING GATE VALVE WEIGHTS & DIMENSIONS

CLASS 1500



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

API Specification 6D

**12 3/8" Minimum Bore for Geothermal Only.*

PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 1500 HANDWHEEL OPERATED	4"	21.50" / 21.63"	3.94"	6.19" / R-39	9.50"	12.25"	8-Ø1.38"	2.13"	9.00"	31.00"	352 (160)
	6"	27.75" / 28.00"	5.69"	8.50" / R-46	12.50"	15.50"	12-Ø1.50"	3.25"	13.11"	40.00"	1034 (470)
	8"	32.75" / 33.13"	7.56"	10.63" / R-50	15.50"	19.00"	12-Ø1.73"	3.63"	16.50"	47.24"	2541 (1155)
	10"	39.00" / 39.38"	9.94"	12.75" / R-54	19.00"	23.00"	12-Ø2.00"	4.25"	20.00"	57.17"	4158 (1890)
ANSI 1500 BEVEL-GEAR OPERATED	4"	21.50" / 21.63"	3.94"	6.19" / R-39	9.50"	12.25"	8-Ø1.38"	2.13"	9.00"	31.00"	352 (160)
	6"	27.75" / 28.00"	5.69"	8.50" / R-46	12.50"	15.50"	12-Ø1.50"	3.25"	13.11"	40.00"	1034 (470)
	8"	32.75" / 33.13"	7.56"	10.63" / R-50	15.50"	19.00"	12-Ø1.73"	3.63"	16.50"	47.24"	2541 (1155)
	10"	39.00" / 39.38"	9.94"	12.75" / R-54	19.00"	23.00"	12-Ø2.00"	4.25"	20.00"	57.17"	4158 (1890)
	12"	44.50" / 45.13"	11.31"	15.00" / R-58	22.50"	26.50"	16-Ø2.13"	4.88"	23.82"	66.73"	6006 (2730)

***Dimensions are subject to change without notice.*



E-Z SEAL SLAB GATE VALVE

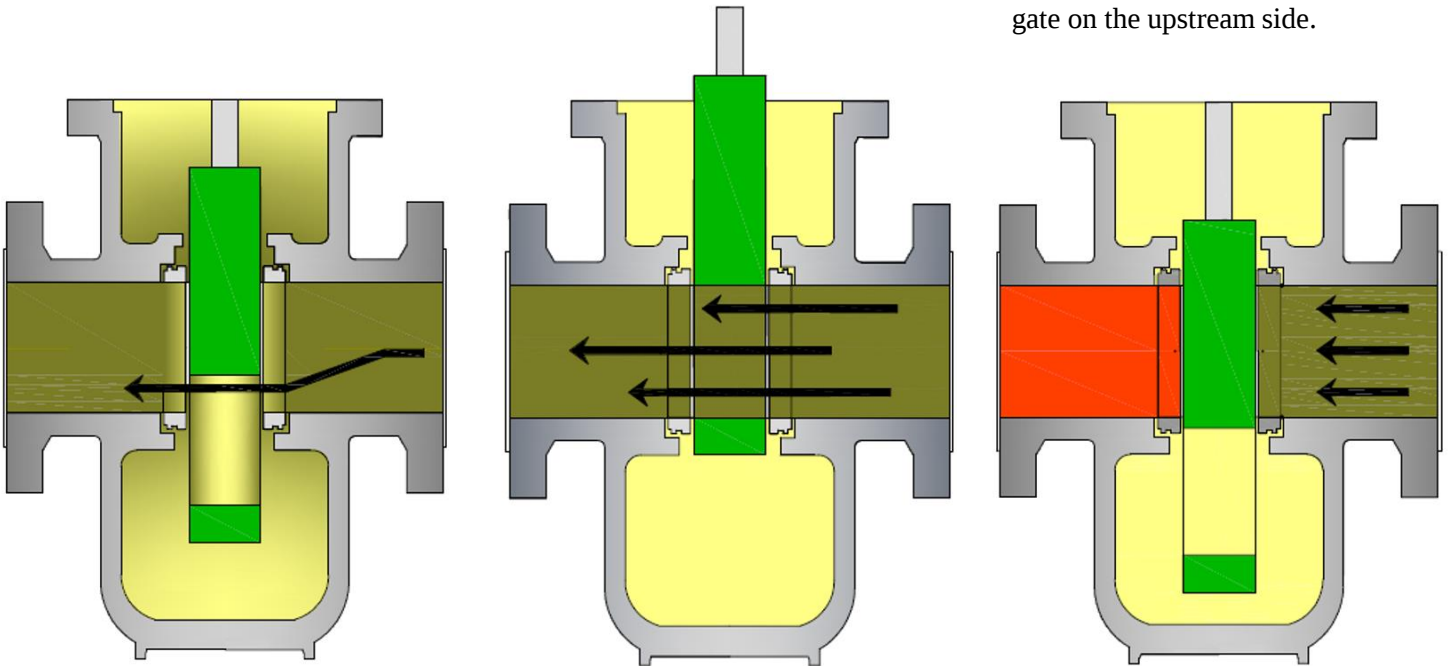


OPERATING PRINCIPLE

The E-Z SEAL Slab Gate Valve is a full port, through-conduit gate valve designed for geothermal wellhead and flow line applications allowing easy and smooth operation. Optimal clearances combined with the through-conduit and full opening design reduces turbulence and pressure drop. Once again, for geothermal applications, the optional EPI GeoShield protective coating not only protects the seat and gate sealing surfaces, but the entire surface area of both the gate and seat sets. While at the same time providing a truly affordable alternative to Stellite hard-facing. The EPI GeoShield protection also affords lubricity and reduces operating torques.

HOW THE E-Z SEAL SLAB GATE VALVE WORKS

- 1** The seats function with pressure acting on differential areas. A basic law of nature makes these valves seal, but they are also fitted with emergency seat sealant injection ports in case the seats or gate is damaged. The hydraulic load applied by the line pressure reduces when differential pressures are lowered reducing the amount of wear. The wear is much lower than that employed by mechanically energized configurations.
- 2** As line pressure is applied, the pressure acts on the gate, forcing it against the PTFE sealant ring & compressing it until the gate rests against the seat. The o-ring seal also is forced firmly against the seat pocket. This o-ring prevents any downstream flow around the seat.
- 3** When the gate has traveled to its final closed position & pressure has equalized, a seal is formed between the PTFE sealant ring on the face of the seat & the gate surface on the upstream & downstream sides. This valve automatically relieves itself of excess pressure. Here's how: When the body pressure exceeds the line pressure, the valve's upstream seat is forced back into its seat pocket & the excess pressure is bled back between the seat & the gate on the upstream side.





E-Z SEAL SLAB GATE VALVE TRIM CHART



TRIM CHART & RECOMMENDED SPARE PARTS

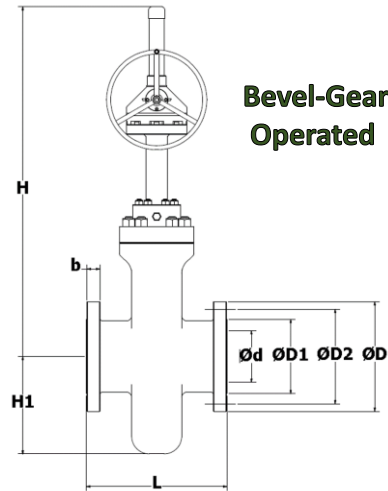
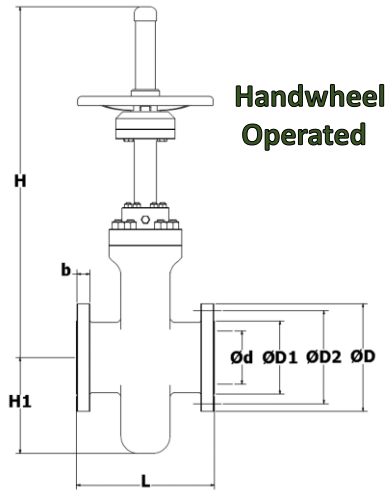
TRIM CHART		
COMPONENT	RECOMMENDED SPARE PARTS	E08 TRIM
		GEOHERMAL SERVICE
		OPERATING TEMP. 600°F MAX.
BODY		ASTM A216 WCC
BODY DRAIN PLUG		316 STAINLESS STEEL
GATE	**	A516 GR 70 + GEOSHIELD or EQ
SEATS	**	A105 + GEOSHIELD or EQ
SEAT INSERTS	**	RPTFE
SEAT O-RINGS		AFLAS
BONNET		ASTM A216 WCC or EQ
BONNET GASKET	**	316/GRAPHITE OR RING GASKET 316 SS
SEAT SEALANT FITTINGS	**	316 STAINLESS STEEL
STEM	**	17-4PH SS
YOKE	**	AISI 1020 STEEL or EQ
STEM NUT	**	ALUMINUM BRONZE
STEM PACKING	**	RPTFE + GRAPHITE
GLAND		CARBON STEEL
PACKING FITTING	**	316 SS
BODY VENT FITING	**	316 SS
STUDS		ASTM A193 Gr.B7M
NUTS		ASTM A194 Gr.2HM
HANDWHEEL		CAST IRON
STEM PROTECTOR		CLEAR PLASTIC / STEEL

NACE Compliant - National Association of Corrosion Engineers, STD MR01.75



E-Z SEAL SLAB GATE VALVE WEIGHTS & DIMENSIONS

CLASS 150



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

API Specification 6D

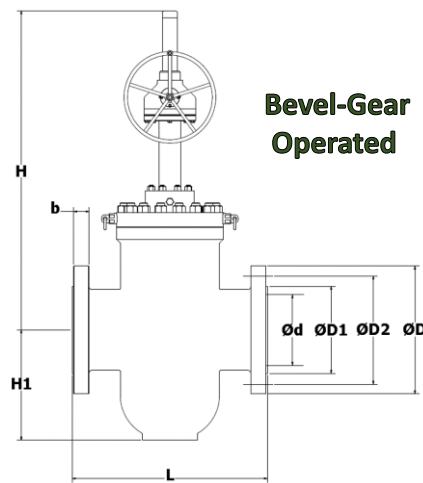
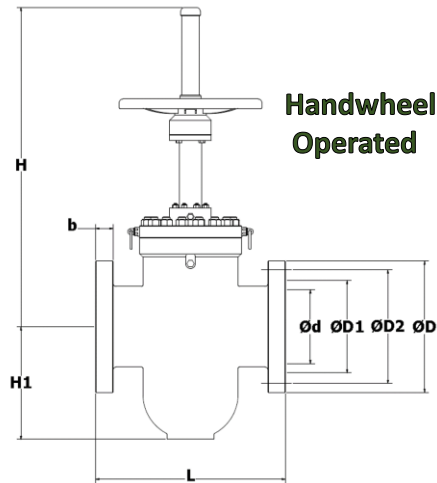
PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE PATTERN	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N - Ød	b	H1	H	Lbs. (kg)
ANSI 150 HANDWHEEL OPERATED	3"	14.00"/ 14.13"	2.94"	5.00"/ R-29	6.00"	7.50"	4-Ø0.750"	0.956"	7.75"	27.32"	112 (51)
	4"	16.00"/ 16.13"	3.94"	6.19"/ R-36	7.50"	9.00"	8-Ø0.750"	0.956"	9.77"	31.00"	125 (57)
	6"	19.50"/ 19.63"	5.94"	8.50"/ R-43	9.50"	11.00"	8-Ø0.866"	1.00"	13.54"	41.54"	187 (85)
	8"	23.50"/ 23.63"	7.94"	10.63"/ R-48	11.75"	13.50"	8-Ø0.866"	1.14"	16.38"	49.72"	345 (157)
	10"	26.50"/ 26.63"	9.94"	12.75"/ R-52	14.25"	16.00"	12-Ø0.984"	1.20"	19.69"	55.91"	526 (239)
	12"	30.00"/ 30.13"	11.94"	15.00"/ R-56	17.00"	19.00"	12-Ø0.984"	1.27"	22.72"	64.00"	849 (386)
ANSI 150 BEVEL-GEAR OPERATED	4"	16.00"/ 16.13"	3.94"	6.19"/ R-36	7.50"	9.00"	8-Ø0.750"	0.956"	9.77"	31.00"	125 (57)
	6"	19.50"/ 19.63"	5.94"	8.50"/ R-43	9.50"	11.00"	8-Ø0.866"	1.00"	13.54"	41.54"	187 (85)
	8"	23.50"/ 23.63"	7.94"	10.63"/ R-48	11.75"	13.50"	8-Ø0.866"	1.14"	16.38"	49.72"	345 (157)
	10"	26.50"/ 26.63"	9.94"	12.75"/ R-52	14.25"	16.00"	12-Ø0.984"	1.20"	19.69"	55.91"	526 (239)
	12"	30.00"/ 30.13"	11.94"	15.00"/ R-56	17.00"	19.00"	12-Ø0.984"	1.27"	22.72"	64.00"	849 (386)
ANSI 150 BEVEL-GEAR OPERATED	14"	16.00"/ 16.13"	13.19"	16.25"/ R-59	18.75"	21.00"	12-Ø1.14"	1.39"	25.00"	70.59"	1120 (509)
	16"	19.50"/ 19.63"	15.19"	18.50"/ R-64	21.25"	23.50"	16-Ø1.14"	1.46"	28.41"	78.19"	1529 (695)
	18"	23.50"/ 23.63"	17.19"	21.00"/ R-68	22.75"	25.00"	16-Ø1.26"	1.58"	31.26"	85.24"	2112 (960)
	20"	26.50"/ 26.63"	19.19"	23.00"/ R-72	25.00"	27.50"	20-Ø1.26"	1.70"	34.76"	90.98"	2532 (1151)
	24"	30.00"/ 30.13"	23.19"	27.25"/ R-76	29.50"	32.00"	20-Ø1.38"	1.89"	41.95"	109.76"	4140 (1882)

****Dimensions are subject to change without notice.**



E-Z SEAL SLAB GATE VALVE WEIGHTS & DIMENSIONS

CLASS 300



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

API Specification 6D

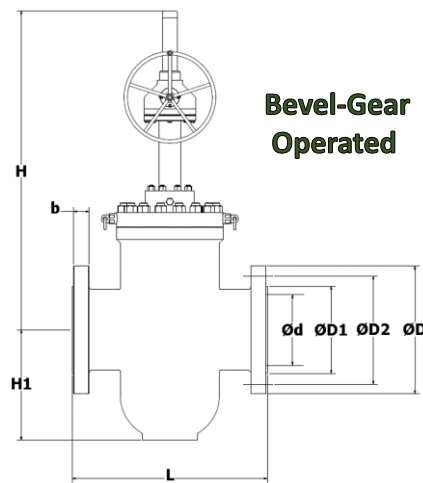
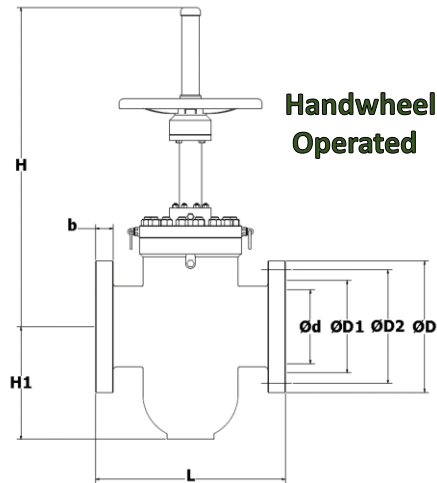
PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 300 HANDWHEEL OPERATED	4"	12.50" / 12.63"	3.94"	6.19" / R-37	7.88"	10.00"	8-Ø0.866"	1.27"	9.76"	31.00"	180 (82)
	6"	15.88" / 16.50"	5.94"	8.50" / R-45	10.63"	12.50"	12-Ø0.866"	1.46"	13.70"	40.00"	297 (135)
	8"	16.50" / 17.13"	7.94"	10.63" / R-49	13.00"	15.00"	12-Ø0.984"	1.64"	16.54"	47.24"	528 (240)
	10"	18.00" / 18.63"	9.94"	12.75" / R-53	15.25"	17.50"	16-Ø1.14"	1.89"	19.88"	57.17"	704 (320)
ANSI 300 BEVEL-GEAR OPERATED	4"	12.50" / 12.63"	3.94"	6.19" / R-37	7.88"	10.00"	8-Ø0.866"	1.27"	9.76"	30.98"	180 (82)
	6"	15.88" / 16.50"	5.94"	8.50" / R-45	10.63"	12.50"	12-Ø0.866"	1.46"	13.70"	41.54"	297 (135)
	8"	16.50" / 17.13"	7.94"	10.63" / R-49	13.00"	15.00"	12-Ø0.984"	1.64"	16.54"	49.72"	528 (240)
	10"	18.00" / 18.63"	9.94"	12.75" / R-53	15.25"	17.50"	16-Ø1.14"	1.89"	19.88"	55.91"	704 (320)
	12"	19.75" / 20.38"	11.94"	15.00" / R-57	17.50"	20.50"	16-Ø1.26"	2.00"	22.19"	64.06"	1276 (580)
ANSI 300 BEVEL-GEAR OPERATED	14"	30.00" / 30.63"	13.19"	16.25" / R-61	20.25"	23.00"	20-Ø1.26"	2.14"	25.24"	71.34"	1892 (860)
	16"	33.00" / 33.63"	15.19"	18.50" / R-65	22.50"	25.50"	20-Ø1.38"	2.27"	28.66"	78.58"	2200 (1000)
	18"	36.00" / 36.63"	17.19"	21.00" / R-69	24.75"	28.00"	24-Ø1.38"	2.39"	31.50"	85.04"	3520 (1600)
	20"	39.00" / 39.75"	19.19"	23.00" / R-73	27.00"	30.50"	24-Ø1.38"	2.52"	35.16"	92.20"	3740 (1700)
	24"	45.00" / 45.88"	23.19"	27.25" / R-77	32.00"	36.00"	24-Ø1.61"	2.77"	41.93"	112.24"	5060 (2300)

****Dimensions are subject to change without notice.**



E-Z SEAL SLAB GATE VALVE WEIGHTS & DIMENSIONS

CLASS 600



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

API Specification 6D

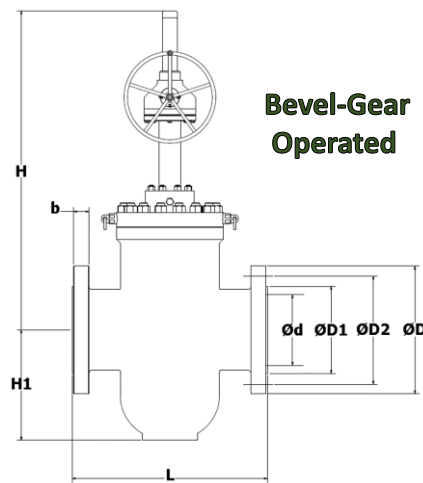
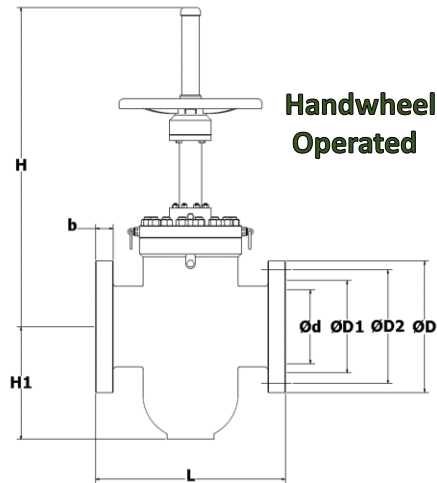
**12 3/8" Minimum Bore for Geothermal Only.*

PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 600 HANDWHEEL OPERATED	4"	17.00" / 17.13"	3.94"	6.19" / R-37	8.50"	10.75"	8-Ø0.984"	1.50"	9.76"	31.00"	330 (150)
	6"	22.00" / 22.13"	5.94"	8.50" / R-45	11.50"	14.00"	12-Ø1.14"	1.88"	13.27"	41.54"	653 (230)
	8"	26.00" / 26.13"	7.94"	10.63" / R-49	13.75"	16.50"	12-Ø1.26"	2.19"	16.54"	49.33"	990 (450)
	10"	31.00" / 31.13"	9.94"	12.75" / R-53	17.00"	20.00"	16-Ø1.38"	1.89"	19.88"	55.91"	1914 (870)
	12"	33.00" / 33.13"	12.38"	15.00" / R-57	19.25"	22.00"	20-Ø1.38"	2.50"	23.60"	64.06"	2310 (1050)
ANSI 600 BEVEL-GEAR OPERATED	4"	17.00" / 17.13"	3.94"	6.19" / R-37	8.50"	10.75"	8-Ø0.984"	1.50"	9.76"	31.00"	330 (150)
	6"	22.00" / 22.13"	5.94"	8.50" / R-45	11.50"	14.00"	12-Ø1.14"	1.88"	13.27"	41.54"	653 (230)
	8"	26.00" / 26.13"	7.94"	10.63" / R-49	13.75"	16.50"	12-Ø1.26"	2.19"	16.54"	49.33"	990 (450)
	10"	31.00" / 31.13"	9.94"	12.75" / R-53	17.00"	20.00"	16-Ø1.38"	1.89"	19.88"	55.91"	1914 (870)
	12"	33.00" / 33.13"	12.38"	15.00" / R-57	19.25"	22.00"	20-Ø1.38"	2.50"	22.19"	64.06"	2310 (1050)
ANSI 600 BEVEL-GEAR OPERATED	14"	35.00" / 35.13"	13.19"	16.25" / R-61	20.75"	23.75"	20-Ø1.50"	2.75"	25.24"	71.46"	3300 (1500)
	16"	39.00" / 39.13"	15.19"	18.50" / R-65	23.75"	27.00"	20-Ø1.61"	3.00"	28.66"	78.74"	4180 (1900)
	18"	43.00" / 43.13"	17.19"	21.00" / R-69	25.75"	29.25"	20-Ø1.75"	3.25"	31.50"	89.09"	5940 (2700)
	20"	47.00" / 47.25"	19.19"	23.00" / R-73	28.50"	32.00"	24-Ø1.75"	3.50"	35.16"	98.07"	8360 (3800)
	24"	55.00" / 55.38"	23.19"	27.25" / R-77	33.00"	37.00"	24-Ø2.00"	4.00"	41.93"	115.98"	13200 (6000)



E-Z SEAL SLAB GATE VALVE WEIGHTS & DIMENSIONS

CLASS 900



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

API Specification 6D

**12 3/8" Minimum Bore for Geothermal Only.*

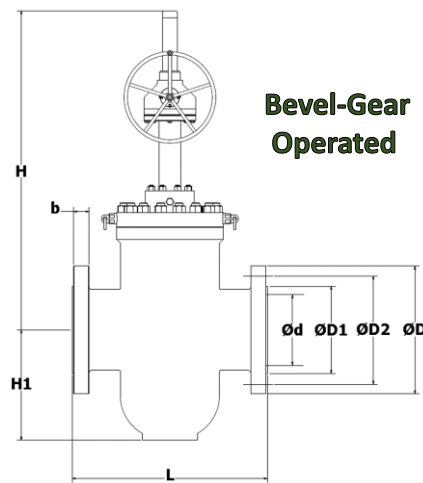
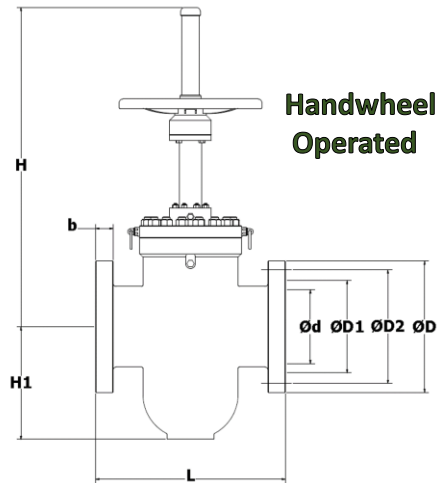
PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 900 HANDWHEEL OPERATED	4"	18.00" / 18.13"	3.94"	6.19" / R-37	9.25"	11.50"	8-Ø1.26"	1.75"	9.76"	31.00"	396 (180)
	6"	24.00" / 24.13"	5.94"	8.50" / R-45	12.50"	15.00"	12-Ø1.26"	2.19"	13.27"	41.54"	770 (350)
	8"	29.00" / 29.13"	7.94"	10.63" / R-49	15.50"	18.50"	12-Ø1.50"	2.50"	17.89"	49.33"	1320 (600)
	10"	33.00" / 33.13"	9.94"	12.75" / R-53	18.50"	21.50"	16-Ø1.50"	2.75"	20.47"	55.91"	2310 (1050)
	12"	38.00" / 38.13"	12.38"	15.00" / R-57	21.00"	24.00"	20-Ø1.50"	3.13"	23.60"	64.06"	3300 (1500)
ANSI 900 BEVEL-GEAR OPERATED	4"	18.00" / 18.13"	3.94"	6.19" / R-37	9.25"	11.50"	8-Ø1.26"	1.75"	9.76"	31.00"	396 (180)
	6"	24.00" / 24.13"	5.94"	8.50" / R-45	12.50"	15.00"	12-Ø1.26"	2.19"	13.27"	41.54"	770 (350)
	8"	29.00" / 29.13"	7.94"	10.63" / R-49	15.50"	18.50"	12-Ø1.50"	2.50"	17.89"	49.33"	1320 (600)
	10"	33.00" / 33.13"	9.94"	12.75" / R-53	18.50"	21.50"	16-Ø1.50"	2.75"	20.47"	55.91"	2310 (1050)
	12"	38.00" / 38.13"	12.38"	15.00" / R-57	21.00"	24.00"	20-Ø1.50"	3.13"	22.19"	64.06"	3300 (1500)
ANSI 900 BEVEL-GEAR OPERATED	14"	40.50" / 40.88"	12.69"	16.25" / R-62	20.75"	23.75"	20-Ø1.50"	2.75"	25.24"	71.46"	3300 (1800)
	16"	44.50" / 44.88"	14.69"	18.50" / R-66	23.75"	27.00"	20-Ø1.61"	3.00"	28.66"	78.74"	4180 (2300)
	18"	48.00" / 48.50"	16.69"	21.00" / R-70	25.75"	29.25"	20-Ø1.75"	3.25"	31.50"	89.09"	5940 (3300)
	20"	52.00" / 52.50"	18.56"	23.00" / R-74	28.50"	32.00"	24-Ø1.75"	3.50"	35.16"	98.07"	11000 (5000)
	24"	61.00" / 61.75"	22.44"	27.25" / R-78	33.00"	37.00"	24-Ø2.00"	4.00"	41.93"	115.98"	17600 (8000)

****Dimensions are subject to change without notice.**



E-Z SEAL SLAB GATE VALVE WEIGHTS & DIMENSIONS

CLASS 1500



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

API Specification 6D

**12 3/8" Minimum Bore for Geothermal Only.*

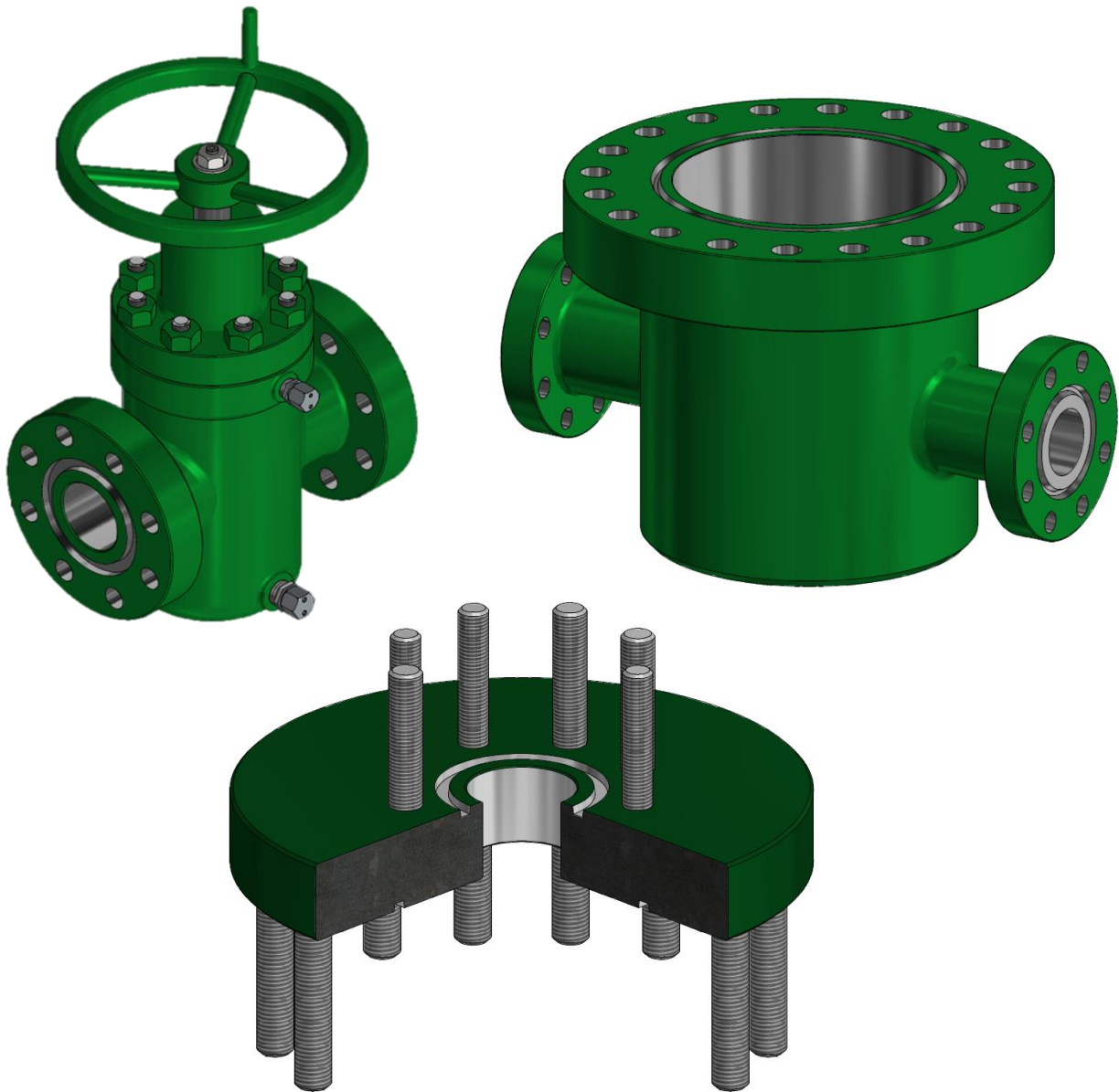
PRESSURE CLASS	DIM. INCHES	END-TO-END RF / RTJ	THRU BORE	FACE PATTERN RF / RTJ	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
ANSI 1500 HANDWHEEL OPERATED	4"	21.50" / 21.63"	3.94"	6.19" / R-39	9.50"	12.24"	8-Ø1.38"	2.13"	10.24"	31.50"	330 (150)
	6"	27.75" / 28.00"	5.69"	8.50" / R-46	12.50"	15.51"	12-Ø1.50"	3.25"	16.38"	49.72"	990 (450)
	8"	32.75" / 33.13"	7.56"	10.63" / R-50	15.50"	19.02"	12-Ø1.73"	3.63"	17.91"	52.20"	2420 (1100)
	10"	39.00" / 39.38"	9.44"	12.75" / R-54	19.00"	23.00"	12-Ø2.00"	4.25"	20.47"	58.00"	3960 (1800)
	12"	44.50" / 45.13"	11.31"	15.00" / R-58	22.00"	26.70"	16-Ø2.13"	4.88"	23.62"	69.57"	5720 (2600)
ANSI 1500 BEVEL-GEAR OPERATED	4"	21.50" / 21.63"	3.94"	7.68" / R-39	9.50"	12.24"	8-Ø1.38"	2.13"	10.24"	31.50"	330 (150)
	6"	27.75" / 28.00"	5.69"	10.25" / R-46	12.50"	15.51"	12-Ø1.50"	3.25"	16.38"	49.72"	990 (450)
	8"	32.75" / 33.13"	7.56"	11.42" / R-50	15.50"	19.02"	12-Ø1.73"	3.63"	17.91"	52.20"	2420 (1100)
	10"	39.00" / 39.38"	9.44"	13.19" / R-54	19.00"	23.00"	12-Ø2.00"	4.25"	20.47"	58.00"	3960 (1800)
	12"	44.50" / 45.13"	11.31"	15.00" / R-58	22.00"	26.70"	16-Ø2.13"	4.88"	23.62"	69.57"	5720 (2600)

****Dimensions are subject to change without notice.**



E-Z SEAL GEOTHERMAL WELLHEAD COMPONENTS

**MANUFACTURED IN ACCORDANCE WITH
API SPECIFICATION 6A**





E-Z SEAL EXPANDING GATE VALVE TRIM CHART



TRIM CHART & RECOMMENDED SPARE PARTS

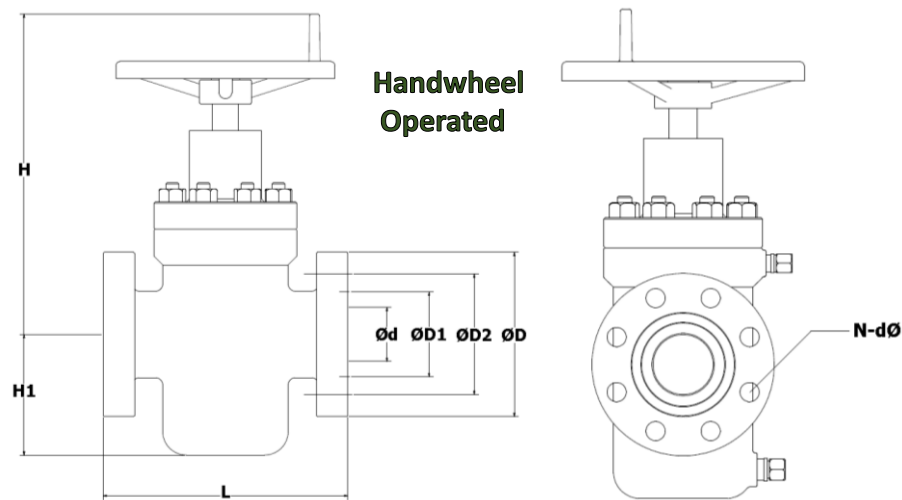
TRIM CHART		
COMPONENT	RECOMMENDED SPARE PARTS	E08 TRIM
		GEOTHERMAL SERVICE
		OPERATING TEMP. 600°F MAX.
BODY		ASTM A487 4D
BODY DRAIN FITTING		316 SS
GATE	**	AISI 4130 + GEOSHIELD
SEGMENT	**	AISI 4130 + GEOSHIELD
SEATS	**	AISI 4130 + GEOSHIELD
SEAT INSERTS	**	RPTFE
SEAT PACKING		RPTFE
SEAT SEGMENT SKIRTS		A36 + GEOSHIELD OR EQ
SEAT O-RINGS		AFLAS
BONNET		AISI 4130 or EQ
O-RINGS	**	AFLAS
SEAT SEALANT FITTINGS	**	316 SS
STEM	**	17-4PH SS
BONNET GASKETS	**	AFLAS
HANDWHEEL		CAST IRON
PACKING FITTING	**	316 SS
BODY VENT FITING	**	316 SS
STUDS		ASTM A193 Gr.B7M
NUTS		ASTM A194 Gr.2HM

NACE Compliant - National Association of Corrosion Engineers, STD MR01.75



E-Z SEAL EXPANDING GATE VALVE

CLASS 2M, 3M, & 5M WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

API Specification 6A

PRESSURE CLASS	DIM. INCHES	END-TO-END RTJ	THRU BORE	FACE PATTERN RTJ #	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
API SPEC 6A 2,000 LB HANDWHEEL OPERATED	2 1/16"	11 5/8"	2 1/16"	R-23	5.00"	6.50"	8-Ø0.75"	1.31"	5.50"	25.00"	120 (55)
	3 1/8"	14 1/8"	3 1/8"	R-31	6.63"	8.25"	8-Ø0.88"	1.56"	7.50"	30.38"	220 (100)
	4 1/16"	17 1/8"	4 1/16"	R-37	8.50"	10.75"	8-Ø1.00"	1.81"	9.00"	39.25"	360 (164)
API SPEC 6A 3,000 LB HANDWHEEL OPERATED	2 1/16"	14 5/8"	2 1/16"	R-24	6.50"	8.50"	8-Ø1.00"	1.81"	5.50"	25.13"	180 (82)
	3 1/8"	17 1/8"	3 1/8"	R-31	7.50"	9.50"	8-Ø1.00"	1.81"	7.50"	30.50"	300 (136)
	4 1/16"	20 1/8"	4 1/16"	R-37	9.25"	11.50"	8-Ø1.25"	2.06"	9.13"	33.75"	520 (236)
API SPEC 6A 5,000 LB HANDWHEEL OPERATED	2 1/16"	14 5/8"	2 1/16"	R-24	6.50"	8.50"	8-Ø1.00"	1.81"	5.50"	25.13"	180 (82)
	3 1/8"	18 5/8"	3 1/8"	R-35	8.00"	10.50"	8-Ø1.25"	2.19"	7.50"	30.50"	340 (155)
	4 1/16"	21 5/8"	4 1/16"	R-39	9.50"	12.25"	8-Ø1.38"	2.44"	9.13"	35.75"	560 (255)

NACE Compliant - National Association of Corrosion Engineers, STD MR01.75

***Dimensions are subject to change without notice.*



E-Z SEAL SLAB GATE VALVE TRIM CHART



TRIM CHART & RECOMMENDED SPARE PARTS

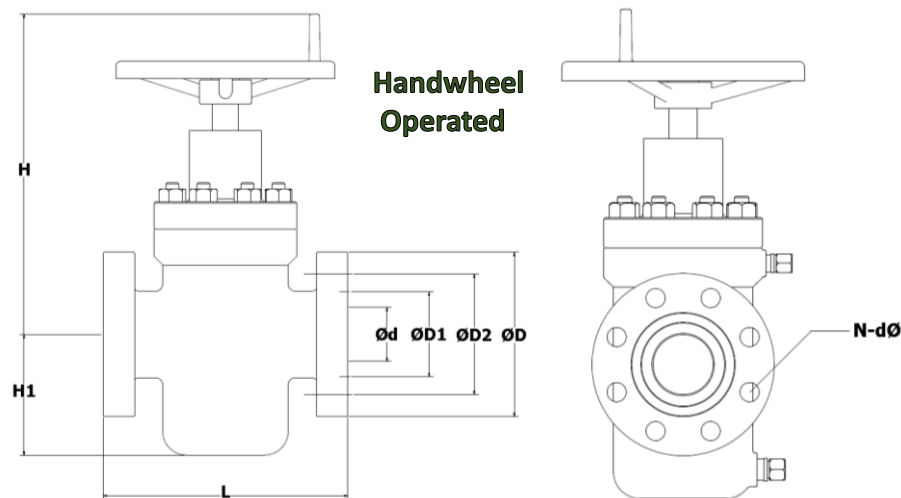
TRIM CHART		
COMPONENT	RECOMMENDED SPARE PARTS	E08 TRIM
		GEOHERMAL SERVICE
		OPERATING TEMP. 600°F MAX.
BODY		ASTM A487 4D
BODY DRAIN FITTING		316 SS
GATE	**	AISI 4130 W/ GEOSHIELD
SEATS	**	AISI 4130 W/ GEOSHIELD
SEAT INSERTS	**	RPTFE
SEAT PACKING		RPTFE
SEAT SEGMENT SKIRTS		A36 W/ GEOSHIELD
SEAT O-RINGS		AFLAS
BONNET		AISI 4130
O-RINGS	**	AFLAS
SEAT SEALANT FITTINGS	**	316 SS
STEM	**	17-4PH SS
BONNET GASKETS	**	AFLAS
HANDWHEEL		CAST IRON
PACKING FITTING	**	316 SS
BODY VENT FITING	**	316 SS
STUDS		ASTM A193 Gr.B7M / VARIES
NUTS		ASTM A194 Gr.2HM / VARIES

NACE Compliant - National Association of Corrosion Engineers, STD MR01.75



E-Z SEAL SLAB GATE VALVE

CLASS 2M, 3M, & 5M WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

API Specification 6A

PRESSURE CLASS	DIM. INCHES	END-TO-END RTJ	THRU BORE	FACE PATTERN RTJ #	BOLT CIRCLE DIAMETER	FLANGE DIAMETER	No. OF HOLES DIAMETER	FLANGE THICKNESS	FLOOR-TO-CL BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	SIZE	L	Ød	ØD1	ØD2	ØD	N – Ød	b	H1	H	Lbs. (kg)
API SPEC 6A 2,000 LB HANDWHEEL OPERATED	2 1/16"	11 5/8"	2 1/16"	R-23	5.00"	6.50"	8-Ø0.75"	1.31"	5.50"	25.00"	120 (55)
	3 1/8"	14 1/8"	3 1/8"	R-31	6.63"	8.25"	8-Ø0.88"	1.56"	7.50"	30.38"	220 (100)
	4 1/16"	17 1/8"	4 1/16"	R-37	8.50"	10.75"	8-Ø1.00"	1.81"	9.00"	35.50"	360 (164)
API SPEC 6A 3,000 LB HANDWHEEL OPERATED	2 1/16"	14 5/8"	2 1/16"	R-24	6.50"	8.50"	8-Ø1.00"	1.81"	5.50"	25.13"	180 (82)
	3 1/8"	17 1/8"	3 1/8"	R-31	7.50"	9.50"	8-Ø1.00"	1.81"	7.50"	30.50"	300 (136)
	4 1/16"	20 1/8"	4 1/16"	R-37	9.25"	11.50"	8-Ø1.25"	2.06"	9.13"	33.75"	520 (236)
API SPEC 6A 5,000 LB HANDWHEEL OPERATED	2 1/16"	14 5/8"	2 1/16"	R-24	6.50"	8.50"	8-Ø1.00"	1.81"	5.50"	25.13"	180 (82)
	3 1/8"	18 5/8"	3 1/8"	R-35	8.00"	10.50"	8-Ø1.25"	2.19"	7.50"	30.50"	340 (155)
	4 1/16"	21 5/8"	4 1/16"	R-39	9.50"	12.25"	8-Ø1.38"	2.44"	9.13"	35.75"	560 (255)

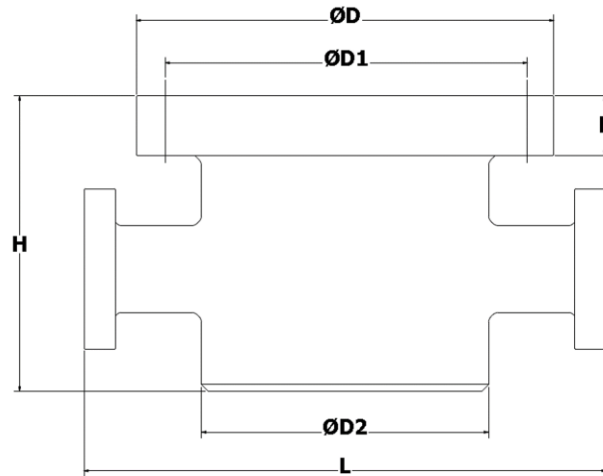
NACE Compliant - National Association of Corrosion Engineers, STD MR01.75

***Dimensions are subject to change without notice.*



EPI GEOTHERMAL CASING HEAD

CLASS 2M, 3M, & 5M WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

API Specification 6A

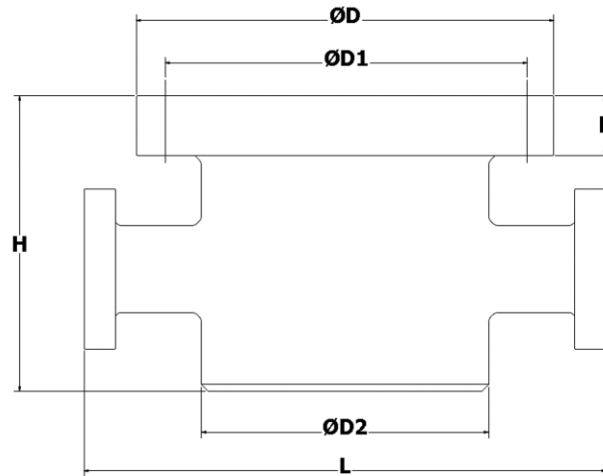
PRESSURE CLASS	FLANGE SIZE	END-TO-END RTJ	RING GASKET	BOLT CIRCLE DIAMETER	FLANGE DIAMETER (TOP FLG)	No. OF HOLES DIAMETER (TOP FLG)	FLANGE THICKNESS (TOP FLG)	MINIMUM BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	FLG SIZE	L	RTJ No.	ØD1	ØD	N – Ød	b	d	H	Lbs. (kg)
API SPEC 6A 2,000 LB	7 1/16"	21.00"	R-45	11.50"	14.00"	12-Ø1.13"	2.19"	7.063"	15.00"	360 (164)
API SPEC 6A 3,000 LB	7 1/16"	21.50"	R-45	12.50"	15.00"	12-Ø1.25"	2.50"	7.063"	16.50"	495 (225)
API SPEC 6A 5,000 LB	7 1/16"	23.00"	R-46	12.50"	15.50"	12-Ø1.50"	3.63"	7.063"	18.50"	625 (284)
API SPEC 6A 2,000 LB	9"	23.00"	R-49	13.75"	16.50"	12-Ø1.25"	2.50"	9.00"	16.00"	410 (186)
API SPEC 6A 3,000 LB	9"	25.25"	R-49	15.50"	18.50"	12-Ø1.50"	3.81"	9.00"	17.50"	595 (270)
API SPEC 6A 5,000 LB	9"	27.50"	R-50	15.50"	19.00"	12-Ø1.75"	4.06"	9.00"	19.00"	750 (341)
API SPEC 6A 2,000 LB	11"	27.50"	R-53	17.00"	20.00"	16-Ø1.38"	2.81"	11.00"	17.00"	510 (232)
API SPEC 6A 3,000 LB	11"	28.00"	R-53	18.50"	21.50"	16-Ø1.50"	3.06"	11.00"	17.50"	735 (334)
API SPEC 6A 5,000 LB	11"	30.50"	R-54	19.00"	23.00"	12-Ø2.00"	4.69"	11.00"	20.50 "	935 (425)

***Dimensions are subject to change without notice.
Manufactured in accordance with API Specification 6A
Manufactured from AISI 4130 Forged Steel*



EPI GEOTHERMAL CASING HEAD

CLASS 2M, 3M, & 5M WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

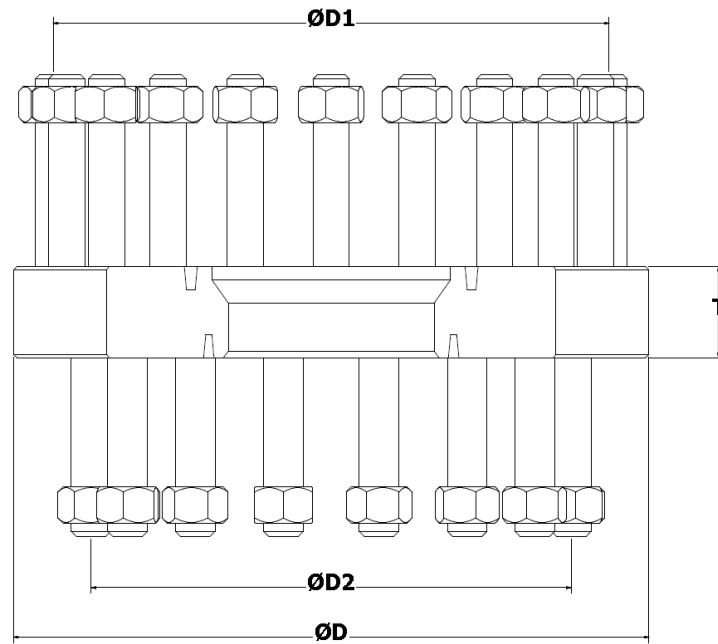
API Specification 6A

PRESSURE CLASS	FLANGE SIZE	END-TO-END RTJ	RING GASKET	BOLT CIRCLE DIAMETER	FLANGE DIAMETER (TOP FLG)	No. OF HOLES DIAMETER (TOP FLG)	FLANGE THICKNESS (TOP FLG)	MINIMUM BORE	MAX. OVERALL HEIGHT	APPROX. WEIGHT
CLASS	FLG SIZE	L	RTJ No.	ØD1	ØD	N – Ød	b	d	H	Lbs. (kg)
API SPEC 6A 2,000 LB	13 5/8"	28.25"	R-57	19.25"	22.00"	20-Ø1.38"	2.94"	12.38"	18.00"	645 (293)
API SPEC 6A 3,000 LB	13 5/8"	30.00"	R-57	21.00"	24.00"	20-Ø1.50"	3.44"	12.38"	19.50"	860 (391)
API SPEC 6A 5,000 LB	13 5/8"	33.00"	BX-160	23.25"	26.50"	16-Ø1.75"	4.44"	12.38"	21.00"	1250 (568)
API SPEC 6A 2,000 LB	16 3/4"	32.50"	R-65	23.75"	27.00"	20-Ø1.63"	3.31"	16.75"	17.13"	1010 (459)
API SPEC 6A 3,000 LB	16 3/4"	33.00"	R-66	24.25"	27.75"	20-Ø1.75"	3.94"	16.75"	20.00"	1220 (555)
API SPEC 6A 5,000 LB	16 3/4"	36.25"	BX-161	26.63"	30.38"	16-Ø2.00"	5.13"	16.75"	21.50"	1335 (607)
API SPEC 6A 2,000 LB	21 1/4"	37.00"	R-73	28.50"	32.00"	24-Ø1.75"	3.88"	21.25"	17.75"	1405 (639)
API SPEC 6A 3,000 LB	20 3/4"	38.50"	R-74	29.50"	33.75"	24-Ø2.13"	4.75"	20.75"	20.00"	1625 (739)

***Dimensions are subject to change without notice.
Manufactured in accordance with API Specification 6A
Manufactured from AISI 4130 Forged Steel*



EPI GEOTHERMAL DOUBLE-STUDDED ADAPTER FLANGE WEIGHTS & DIMENSIONS



Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.

Double Studded

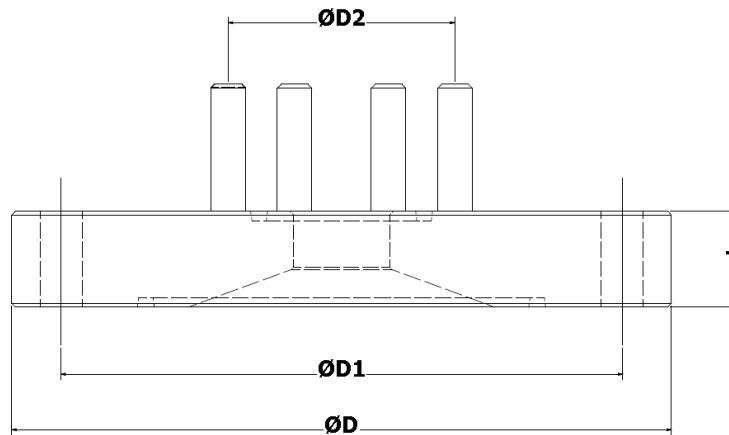
DSA FLANGE SIZE PRESSURE CLASS	FLANGE OUTSIDE DIAMETER	RING GASKET	BOLT CIRCLE DIAMETER (TOP)	BOLT CIRCLE DIAMETER (BOTTOM)	NO. OF STUDS - DIAMETER (TOP)	NO. OF STUDS - DIAMETER (BOTTOM)	FLANGE THICKNESS	MIN. BORE	APPROX. WEIGHT
SIZE/CLASS	ØD	TOP / BOTTOM	ØD1	ØD2	N – Ød	N – Ød	T	b	Lbs. (kg)
11" 2M X 11" 3M	21.50"	R-53 / R-53	17.00"	18.50"	16-Ø1.25"	16-Ø1.38"	3 1/16"	11.00"	290 (132)
11" 3M X 11" 5M	23.00"	R-53 / R-54	18.50"	19.00"	16-Ø1.25"	12-Ø1.88"	4 11/16"	11.00"	510 (232)
13 5/8" 2M X 10" 600#	22.00"	R-57 / R-53	19.25"	17.00"	20-Ø1.25"	16-Ø1.25"	2 15/16"	10.00"	295 (134)
13 5/8" 2M X 10" 900#	22.00"	R-57 / R-53	19.25"	18.50"	20-Ø1.25"	16-Ø1.38"	2 15/16"	10.00"	295 (134)
13 5/8" 3M X 10" 600#	24.00"	R-57 / R-53	21.00"	17.00"	20-Ø1.38"	16-Ø1.25"	3 7/16"	10.00"	415 (189)
13 5/8" 3M X 10" 900#	24.00"	R-57 / R-53	21.00"	18.50"	20-Ø1.38"	16-Ø1.38"	3 7/16"	10.00"	415 (189)
13 5/8" 5M X 10" 1500#	26.50"	BX-160 / R-54	23.25"	19.00"	16-Ø1.63"	12-Ø1.88"	4 7/16"	10.00"	690 (314)

***Dimensions are subject to change without notice.*

Manufactured from AISI 4130 Forged Steel or EQ.



EPI GEOTHERMAL SINGLE-STUDDED ADAPTER FLANGE WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

Drilled x Studded

SSA FLANGE SIZE PRESSURE CLASS	FLANGE OUTSIDE DIAMETER	RING GASKET	BOLT CIRCLE DIAMETER (DRILL)	BOLT CIRCLE DIAMETER (STUDDED)	NO. OF HOLES- DIAMETER (DRILL)	NO. OF STUDS - DIAMETER (STUDDED)	FLANGE THICKNESS	MIN. BORE	APPROX. WEIGHT
SIZE/CLASS	ØD	DRILL / STUD	ØD1	ØD2	N – Ød	N – Ød	T	b	Lbs. (kg)
7 1/16" 2M X 3 1/8" 2M (D x S)	14.00"	R-45 / R-31	11.50"	6.63"	12-Ø1.13"	8-Ø0.75"	2 3/16"	3 1/8"	86 (39)
7 1/16" 2M X 3 1/8" 3M (D x S)	14.00"	R-45 / R-31	11.50"	7.50"	12-Ø1.13"	8-Ø0.875"	2 3/16"	3 1/8"	86 (39)
7 1/16" 3M X 3 1/8" 2M (D x S)	15.00"	R-45 / R-31	12.50"	6.63"	12-Ø1.25"	8-Ø0.75"	2 1/2"	3 1/8"	115 (52)
7 1/16" 3M X 3 1/8" 3M (D x S)	15.00"	R-45 / R-31	12.50"	7.50"	12-Ø1.25"	8-Ø0.875"	2 1/2"	3 1/8"	115 (52)
9" 2M X 3 1/8" 2M (D x S)	16.50"	R-49 / R-31	13.75"	6.63"	12-Ø1.25"	8-Ø0.75"	2 1/2"	3 1/8"	140 (64)
9" 2M X 3 1/8" 3M (D x S)	16.50"	R-49 / R-31	13.75"	7.50"	12-Ø1.25"	8-Ø0.875"	2 1/2"	3 1/8"	140 (64)
9" 3M X 3 1/8" 2M (D x S)	18.50"	R-49 / R-31	15.50"	6.63"	12-Ø1.50"	8-Ø0.75"	3 13/16"	3 1/8"	200 (91)
9" 3M X 3 1/8" 3M (D x S)	18.50"	R-49 / R-31	15.50"	7.50"	12-Ø1.50"	8-Ø0.875"	3 13/16"	3 1/8"	200 (91)

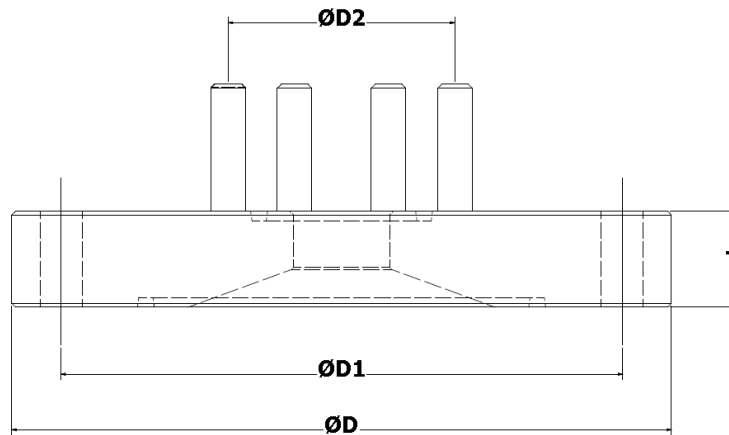
***Dimensions are subject to change without notice.*

NACE Compliant - National Association of Corrosion Engineers, STD MR01.75

Manufactured from AISI 4130 Forged Steel or EQ.



EPI GEOTHERMAL SINGLE-STUDDED ADAPTER FLANGE WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

Drilled x Studded

SSA FLANGE SIZE PRESSURE CLASS	FLANGE OUTSIDE DIAMETER	RING GASKET	BOLT CIRCLE DIAMETER (DRILL)	BOLT CIRCLE DIAMETER (STUDDED)	NO. OF HOLES- DIAMETER (DRILL)	NO. OF STUDS - DIAMETER (STUDDED)	FLANGE THICKNESS	MIN. BORE	APPROX. WEIGHT
SIZE/CLASS	ØD	DRILL / STUD	ØD1	ØD2	N – Ød	N – Ød	T	b	Lbs. (kg)
13 5/8" 2M X 3 1/8" 2M (D x S)	22.00"	R-57 / R-31	19.25"	6.63"	20-Ø1.38"	8-Ø0.75"	2 15/16"	3 1/8"	295 (134)
13 5/8" 2M X 3 1/8" 3M (D x S)	22.00"	R-57 / R-31	19.25"	7.50"	20-Ø1.38"	8-Ø0.875"	2 15/16"	3 1/8"	295 (134)
13 5/8" 2M X 4 1/16" 2M (D x S)	22.00"	R-57 / R-37	19.25"	8.50"	20-Ø1.38"	8-Ø0.875"	2 15/16"	4 1/8"	295 (134)
13 5/8" 2M X 4 1/16" 3M (D x S)	22.00"	R-57 / R-37	19.25"	9.25"	20-Ø1.38"	8-Ø1.13"	2 15/16"	4 1/16"	295 (134)
13 5/8" 3M X 3 1/8" 2M (D x S)	24.00"	R-57 / R-31	21.00"	6.63"	20-Ø1.50"	8-Ø0.75"	3 7/16"	3 1/8"	415 (189)
13 5/8" 3M X 3 1/8" 3M (D x S)	24.00"	R-57 / R-31	21.00"	7.50"	20-Ø1.50"	8-Ø0.875"	3 7/16"	3 1/8"	415 (189)
13 5/8" 3M X 4 1/16" 2M (D x S)	24.00"	R-57 / R-37	21.00"	8.50"	20-Ø1.50"	8-Ø0.875"	3 7/16"	4 1/8"	415 (189)
13 5/8" 3M X 4 1/16" 3M (D x S)	24.00"	R-57 / R-37	21.00"	9.25"	20-Ø1.50"	8-Ø1.13"	3 7/16"	4 1/16"	415 (189)

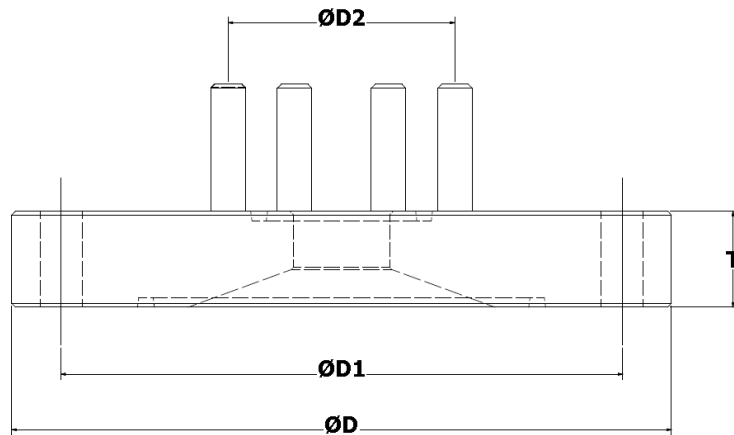
***Dimensions are subject to change without notice.*

NACE Compliant - National Association of Corrosion Engineers, STD MR01.75

Manufactured from AISI 4130 Forged Steel or EQ.



EPI GEOTHERMAL SINGLE-STUDDED ADAPTER FLANGE WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

Drilled x Studded

SSA FLANGE SIZE PRESSURE CLASS	FLANGE OUTSIDE DIAMETER	RING GASKET	BOLT CIRCLE DIAMETER (DRILL)	BOLT CIRCLE DIAMETER (STUDDED)	NO. OF HOLES- DIAMETER (DRILL)	NO. OF STUDS - DIAMETER (STUDDED)	FLANGE THICKNESS	MIN. BORE	APPROX. WEIGHT
SIZE/CLASS	ØD	DRILL / STUD	ØD1	ØD2	N – Ød	N – Ød	T	b	Lbs. (kg)
16 3/4" 2M X 3 1/8" 2M (D x S)	27.00"	R-65 / R-31	23.75"	6.63"	20-Ø1.63"	8-Ø0.75"	3 5/16"	3 1/8"	527 (240)
16 3/4" 2M X 3 1/8" 3M (D x S)	27.00"	R-65 / R-31	23.75"	7.50"	20-Ø1.63"	8-Ø0.875"	3 5/16"	3 1/8"	527 (240)
16 3/4" 3M X 4 1/16" 2M (D x S)	27.75"	R-66 / R-37	24.25"	8.50"	20-Ø1.75"	8-Ø0.875"	3 15/16"	4 1/8"	619 (281)
16 3/4" 3M X 4 1/16" 3M (D x S)	27.75"	R-66 / R-37	24.25"	9.25"	20-Ø1.75"	8-Ø1.13"	3 15/16"	4 1/16"	619 (281)
21 1/4" 2M X 3 1/8" 2M (D x S)	32.00"	R-73 / R-31	28.50"	6.63"	24-Ø1.75"	8-Ø0.75"	3 7/8"	3 1/8"	855 (389)

***Dimensions are subject to change without notice.*

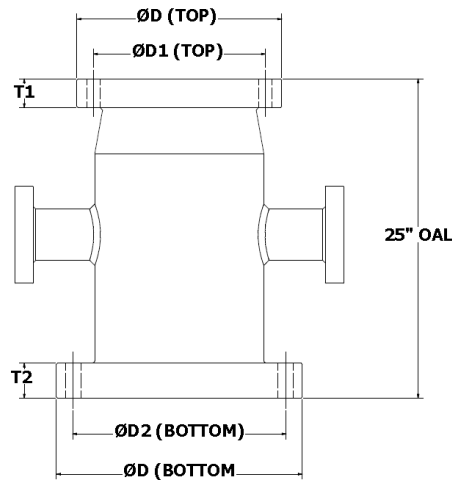
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Manufactured from AISI 4130 Forged Steel or EQ.

Other sizes available upon request.



EPI GEOTHERMAL ADAPTER SPOOLS WEIGHTS & DIMENSIONS



*Note:
All dimensions are
measured in
inches. Weight is
measured in lbs.*

ADAPTER SPOOL SIZE PRESSURE CLASS	FLANGE OUTSIDE DIAMETER	RING GASKET	BOLT CIRCLE DIAMETER (TOP)	BOLT CIRCLE DIAMETER (BOTTOM)	NO. OF HOLES- DIAMETER (TOP)	NO. OF HOLES- DIAMETER (BOTTOM)	FLANGE THICKNESS (TOP)	FLANGE THICKNESS (BOTTOM)	MIN. BORE	APPROX. WEIGHT
SIZE/CLASS	ØD	TOP / BOTTOM	ØD1	ØD2	N – Ød	N – Ød	T1	T2	B	Lbs. (kg)
7 1/16" 2M X 11" 2M (TOP x BOTTOM)	14" / 20"	R-45 / R-53	11.50"	17.00"	12-Ø1.13"	16-Ø1.38"	2 5/16"	2 13/16"	7 1/16"	363 (165)
7 1/16" 3M X 11" 2M (TOP x BOTTOM)	15" / 20"	R-45 / R-53	12.50"	17.00"	12-Ø1.25"	16-Ø1.38"	2 1/2"	2 13/16"	7 1/16"	450 (205)
11" 2M X 11" 2M (TOP x BOTTOM)	20"	R-53	17.00"	17.00"	16-Ø1.38"	16-Ø1.38"	2 13/16"	2 13/16"	11"	510 (232)
11" 3M X 11" 2M (TOP x BOTTOM)	21.50" / 20"	R-53	18.50"	17.00"	16-Ø1.50"	16-Ø1.38"	3 1/16"	2 13/16"	11"	565 (257)
11" 5M X 11" 3M (TOP x BOTTOM)	23" / 21.50"	R-54 / R-53	19.00"	18.50"	12-Ø2.00"	16-Ø1.50"	4 11/16"	3 1/16"	11"	840 (382)
13 5/8" 2M X 10" 600# (TOP x BOTTOM)	22" / 20"	R-57 / R-53	19.25"	17.00"	20-Ø1.38"	16-Ø1.38"	2 15/16"	2 1/2"	10"	578 (263)
13 5/8" 3M X 10" 600# (TOP x BOTTOM)	24" / 20"	R-57 / R-53	21.00"	17.00"	20-Ø1.50"	16-Ø1.38"	3 7/16"	2 1/2"	10"	697 (317)
13 5/8" 3M X 10" 900# (TOP x BOTTOM)	24" / 21.50"	R-57 / R-53	21.00"	18.50"	20-Ø1.50"	16-Ø1.50"	3 7/16"	2 3/4"	10"	755 (343)
13 5/8" 5M X 10" 900# (TOP x BOTTOM)	26.50" / 21.50"	BX-160 / R-53	23.25"	18.50"	16-Ø1.75"	16-Ø1.50"	4 7/16"	2 3/4"	10"	1118 (508)
13 5/8" 5M X 10" 1500# (TOP x BOTTOM)	26.50" / 23"	BX-160 / R-54	23.25"	19.00"	16-Ø1.75"	12-Ø2.00"	4 7/16"	4 1/4"	10"	1334 (606)

- **Dimensions are subject to change without notice.*
- *All spools are 25" inches OAL unless otherwise specified.*
- *All outlets sizes to be specified by customer.*
- *Other sizes available upon request.*

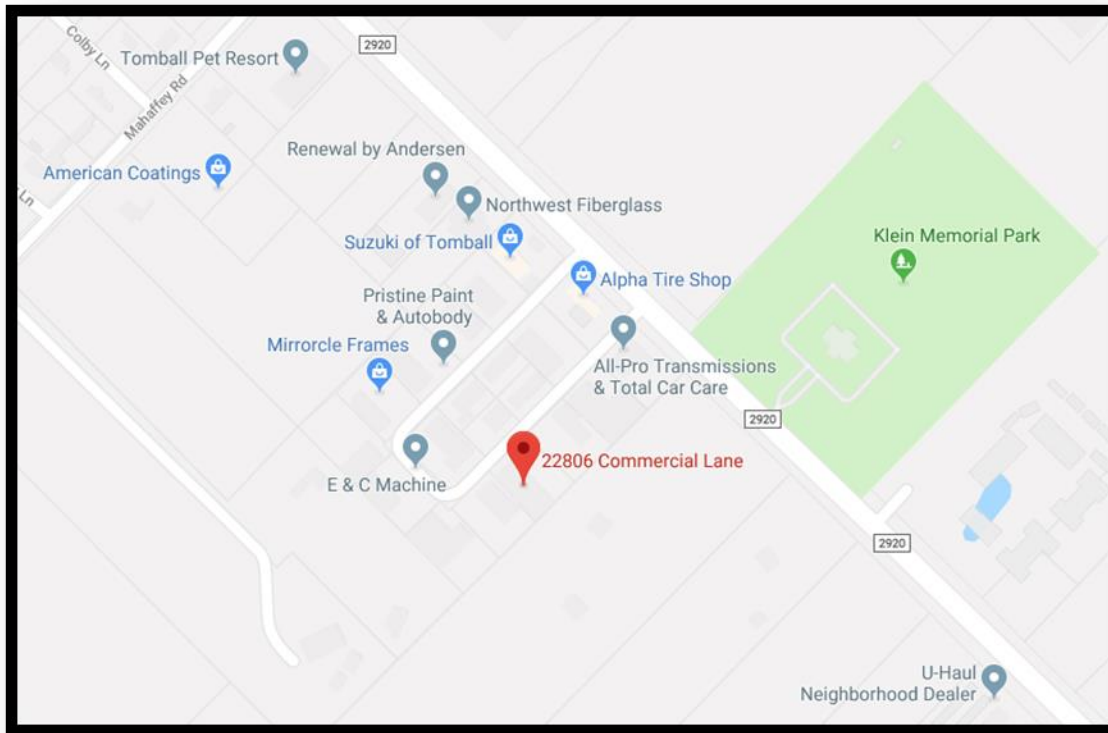


CONTACT US



WHERE YOU CAN FIND US

We are located on FM 2920 just Northwest of the Grand Parkway US 99 in Tomball, Texas. To reach our location from I-45, take Exit 70a 2920, to Tomball. Continue down FM 2920 for about 10 miles. We are on the left-hand side of 2920 @ 22806 Commercial Lane.



CONTACT INFORMATION

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Website Address www.epitexas.com

