STANDARDS

- API 6 FA fire safe design
- Complies with API 6D/API 6D SS
- ASME B16.34
- ASME B16.25
- ASME B16.47
- NACE MR 01.25
- ASME VII Div. 1
- CRN certified
- NACE MR-0175
- Antistatic device
- Anti-blowout stem
- Self-relieving

J Flow Controls KS Series
Through Conduit Slab Gate Valves

FEATURES & BENEFITS

- Full bore port, rising stem OS&Y, with floating seats and gate
- Bubble tight shut off upstream and downstream under both low and high differential pressure
- Double block and bleed capability and automatic relief of excess body pressure are standard for this seat design
- Smooth, continuous bore minimizes turbulence within the valve
- Pigs and scrapers can be run through the valve without damage
- The seat faces are outside the flow stream and protected from the erosive action of the flow
- Extended stem and bonnet
- Equalizing hole in gate

APPLICATIONS & INDUSTRIES

- Suitable for all types of fluids including abrasive fluids
- Suitable for ESDV/BDV applications and Pig Traps

FEATURES

- **Floating Seat**
  The seat ring is installed with springs, this insures constant contact with the gate insuring a tight seal
- **Bi-directional**
  Shut off both up-stream and downstream
- **Stem Seals**
  Self energizing non rolling lip seats, no side load or friction drag on the stem low; operating thrust
- **Steam Protector and position indicator**
- **API 6FA Fire Safe Design**
  Metal-to-metal primary seal, secondary to be soft soft seal
- **Double Block and Bleed (DBB)**
  Valve with two seating surfaces which, in the closed position, blocks flow from both valve ends when the cavity between the seating surfaces is vented through a bleed (drain plug) connection provided on the body cavity
- **Graphite**
  Fire safe sealing for body and bonnet connection
- **Self-Relieving Seat**
  Protection against over pressure in the body cavity
- **Body Drain**
  Relief of the trapped fluid in valve cavity
- **Emergency sealant injection for both seats and stem packing**
- **Top Entry Bonnet**
  Easy inline valve maintenance and replacement of stem packing
- **Suitable for ESDV / BDV applications and pig traps**
- **Suitable for all types of fluids (including abrasive fluids)**

Size		ASME CLASS						
in	mm	150	300	400	600	900	1500	2500
2	50							
3	80							
4	100							
6	150							
8	200							
10	250							
12	300							
14	350							
16	400							
18	450							
20	500							
22	550							
24	600							
26	650							
28	700							
30	750							
32	800							
34	850							
36	900							
38	950							
40	1000							
42	1050							
48	1200							
54	1350							
56	1400							
60	1500							

FEATURES & BENEFITS

Valve position indicator, can indicate the valve operation degree, easy to know the gate position

Valve packing protection shell, prevent the dust going into the valve stem and packing

V type and lantern ring packing design makes sure no stem leakage will happen, also stem with a primary O-ring design

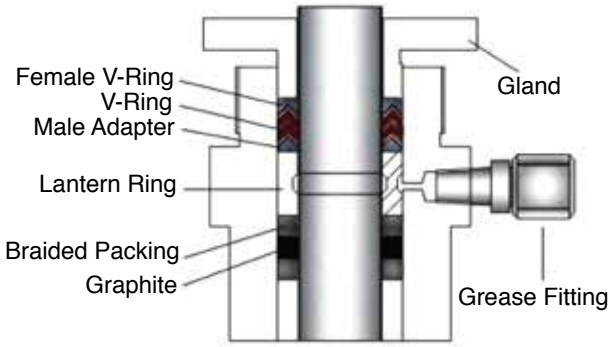
Steel wounded gasket and the O-ring design on the body and bonnet connection, ensures no leakage

Seat ring with springs loaded and double O-ring seal design make sure the valve has DBB and self-relief function

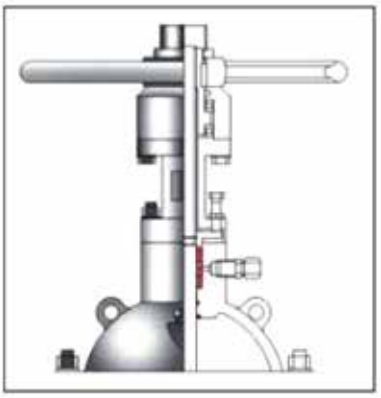
Valve body drain plug can relieve the trapped fluid in the cavity, keep cavity clean and cavity in low pressure

DESIGN FEATURES

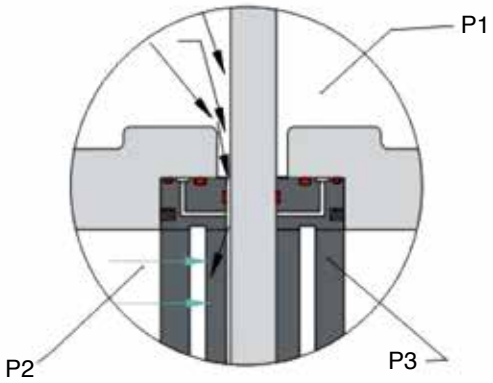
Inside Stem Packing Design



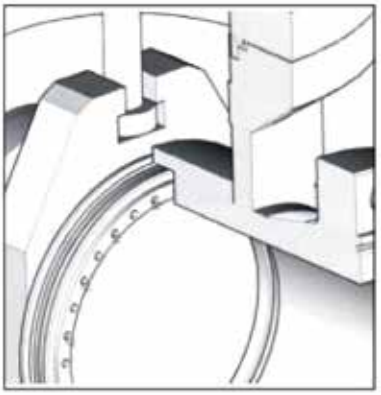
The stem packing is inside the bonnet. This is a special dust-proof design. It is very easy for tight packing and easy for online replacement of the packing



Pressure Automatic Relief



Our RDP-type slab is a self-relieving seat design. The initial seal, at extremely low pressure differentials, is obtained by the floating seats being forced against the gate by the spring. When the gate is closed, the upstream pressure pushes the gate tightly against the down stream seat. This results in upstream and downstream bubble-tight seals which works independently under most pressure conditions.
In case of over-pressure in cavity, the upstream seat will move back to pocket due to a piston effect, and the cavity trapped flow will move to valve bore, until the cavity pressure equivalent to port pressure.



Valve Position Indicator

The valve has a gear box and there is a position indicator on the gear box. This will indicate the valve opening and closing degree, easy for working site operation, make sure no there is no mistake on the valve operation.

VALVE MATERIAL SPECIFICATION

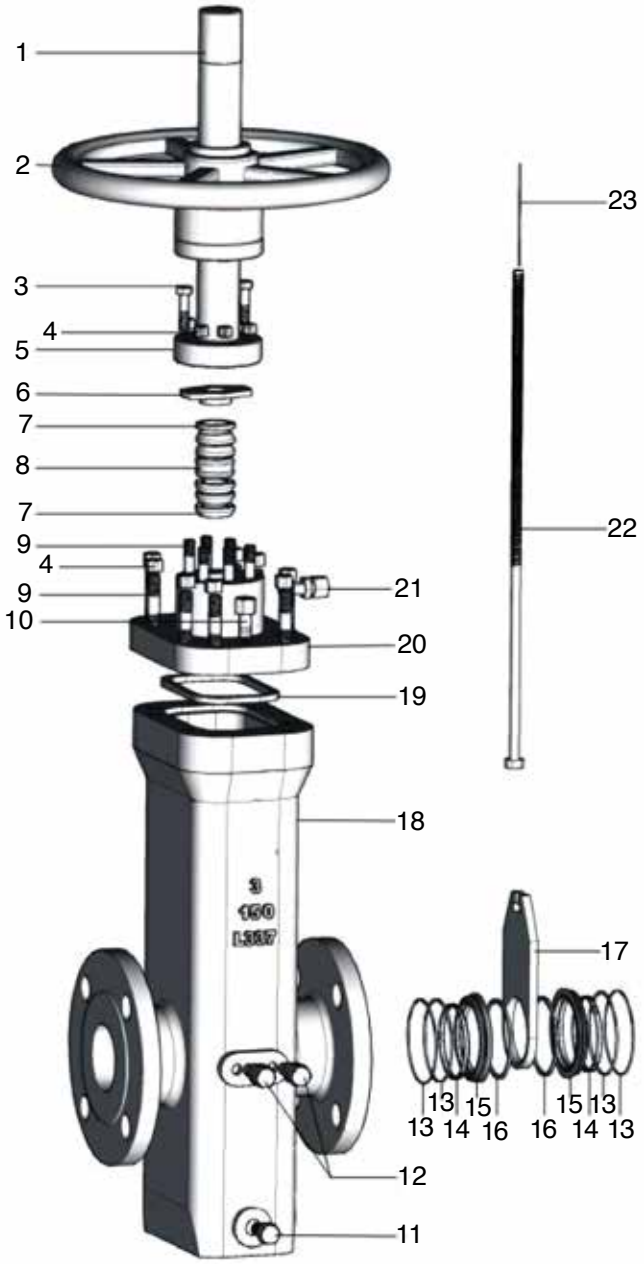
through conduit gate valve working temperature range is
-20°F to +284°F - Normal working condition
-51°F to +248°F - Low temperature working condition
-20°F to +1000°F - High temperature working condition

through conduit gate valve medium available to crude oil, refinery oil and gasoline, air port gasoline, natural coal gas, chlorine oil, slurry, etc.
Depending on the working temperature, we can provide soft seated design and metal-to-metal seated design. (the stellite coated and tungsten coated on the gate and seat ring).

Service	Trim No.	Body & Bonnet	Gate	Seat	Stem Seal	Stem	Bolting	Fittings
Standard -20°F to +250°F	NW1	WCB Carbon Steel	A515-70 Low Alloy Steel, ENP/HCR	A515-70 Nickel Plated PTFE Insert	Viton	Cr13	Alloy Steel	Carbon Steel
Corrosive -20°F to +250°F	NC1	WCB Carbon Steel NACE	A515-70 Low Alloy Steel, ENP/HCR	Carbon Steel Nickel Plated PTFE Insert	PTFE	Low Alloy Steel ENP	Alloy Steel NACE	Stainless Steel
High Temperature -20°F to +650°F	GH1	WCC Carbon Steel	CA15 Stainless Steel, HF-6 Hard Faced	Carbon Steel Hard Faced	Flexible Graphite	400 Series Stainless Steel	Alloy Steel	Stainless Steel
High Temperature -20°F to +1000°F	GH2	WC6 Carbon Steel	CA15 Stainless Steel HF-6 Hard Faced	A182F11, HF-6 Hard Faced	Flexible Graphite	400 Series Stainless Steel	Alloy Steel	Stainless Steel
Low Temperature Non-Sour -50°F to +250°F	DW1	LCC Impact Tested	ENP LCC Carbon Steel Low Alloy Steel	Carbon Steel ENP PTFE Insert	PTFE	Low Alloy Steel ENP	Alloy Steel	Stainless Steel
Low Temperature Sour -50°F to +250°F	DW2	LCC Carbon Steel	ENP LCC Carbon Steel	Carbon Steel ENP PTFE Insert	PTFE	Low Alloy Steel Impact ENP	Alloy Steel NACE	Stainless Steel

Above valve components materials are for reference, the actual material should be selected upon the working condition

BILL OF MATERIALS

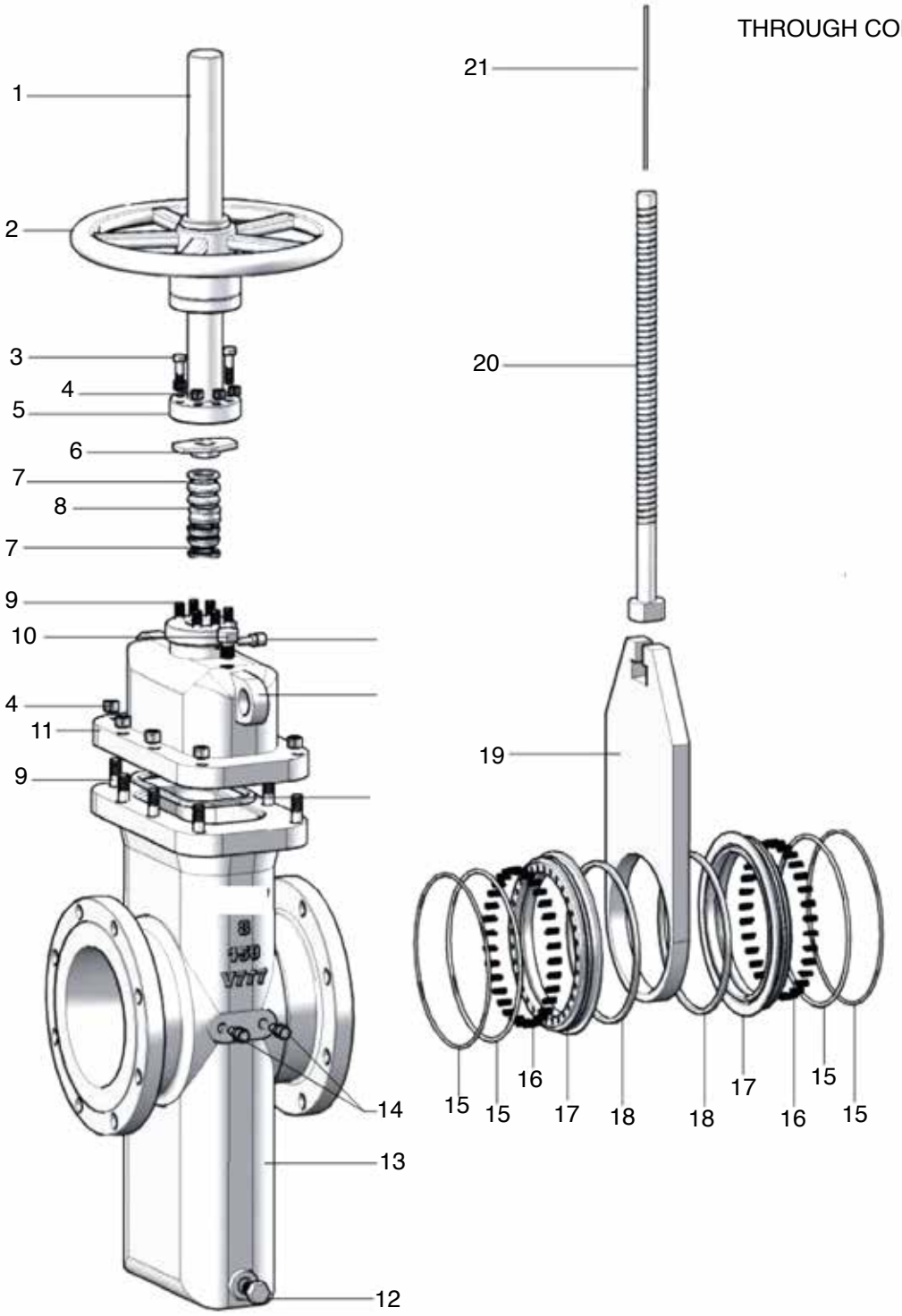


THROUGH CONDUIT SLAB GATE VALVE
PRESSURE CLASS 150#
SIZES 2" - 4"

- Double Block & Bleed
- Safe Release
- Reliable Seal
- Fire Safe
- Cleaning Pipe
- Emergency Seal
- Special Seat
- Draining
- Extended Stem
- Various Operation
- Various End Connections
- Diversity of Body Materials
- Diversity of Seat Materials
- Various Control Systems
- Reliable Operation
- Bearing Pipe Stress Safety

No	Part Name	No	Part Name	No	Part Name	No	Part Name
1	Stem Protector	7	V Packing Ring	13	O-Ring	19	Bonnet Gasket
2	Handwheel	8	Lantern Ring	14	Bevel Spring	20	Bonnet
3	Packing Adjust Bolt	9	Stud	15	Seat Ring	21	Stem Grease Injection Fitting
4	Nut	10	Body Vent Plug	16	Seat Insert	22	Stem
5	Yoke	11	Body Drain Plug	17	Gate	23	Indicator Rod
6	Packing Gland	12	Sealant Injector Fitting	18	Body		

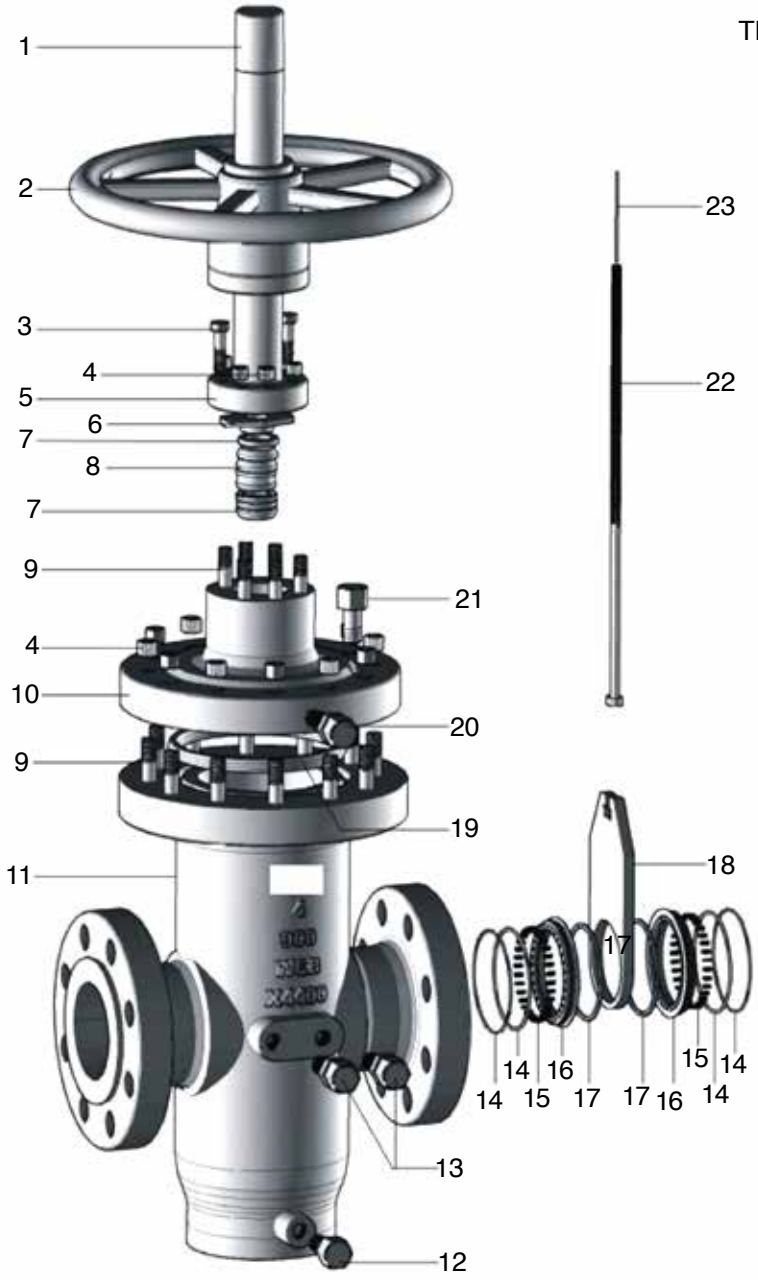
BILL OF MATERIALS



THROUGH CONDUIT SLAB GATE VALVE
PRESSURE CLASS 150#
SIZES 6" - 60"

No	Part Name
1	Stem Protector
2	Handwheel
3	Packing Adjust Bolt
4	Nut
5	Yoke
6	Packing Gland
7	V Packing Ring
8	Lantern Ring
9	Stud
10	Body Vent Plug
11	Bonnet
12	Body Drain Plug
13	Body
14	Sealant Injector Fitting
15	O-Ring
16	Spring
17	Seat Ring
18	Seat Insert
19	Gate
20	Stem
21	Indicator Rod
22	Stem Grease Injection Fitting
23	Lift Lug
24	Bonnet Gasket

BILL OF MATERIALS

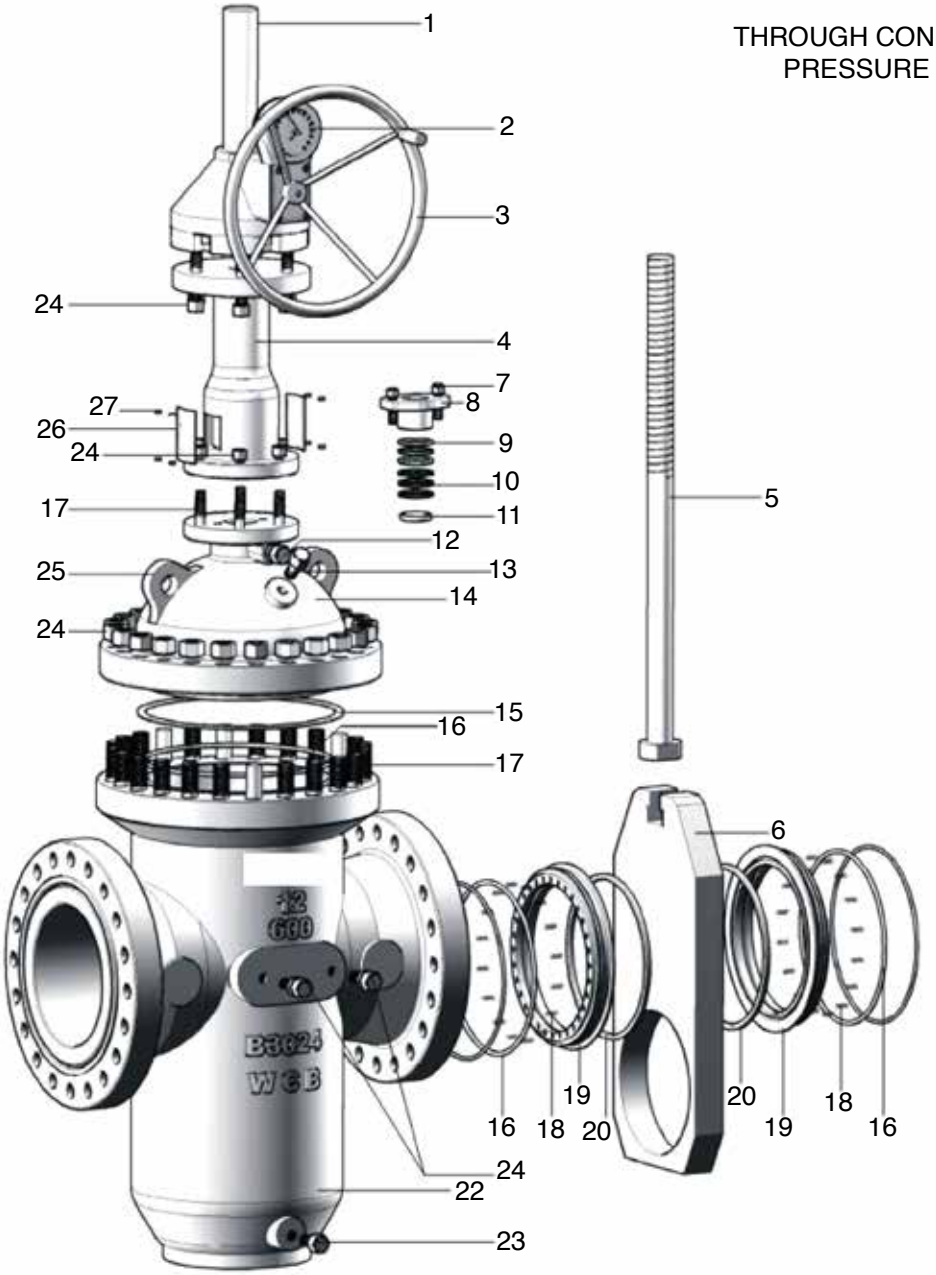


THROUGH CONDUIT SLAB GATE VALVE
PRESSURE CLASS 300#, 600#, 900#
SIZES 2" - 4"

- Double Block & Bleed
- Safe Release
- Reliable Seal
- Fire Safe
- Cleaning Pipe
- Emergency Seal
- Special Seat
- Draining
- Extended Stem
- Various Operation
- Various End Connections
- Diversity of Body Materials
- Diversity of Seat Materials
- Various Control Systems
- Reliable Operation
- Bearing Pipe Stress Safety

No	Part Name	No	Part Name	No	Part Name	No	Part Name
1	Stem Protector	7	V Packing Ring	13	Sealant Injector Fitting	19	Bonnet Gasket
2	Handwheel	8	Lantern Ring	14	O-Ring	20	Stem Grease Injection Fitting
3	Packing Adjust Bolt	9	Stud	15	Spring	21	Body Vent Plug
4	Nut	10	Bonnet	16	Seat Ring	22	Stem
5	Yoke	11	Body	17	Seat Insert	23	Indicator Rod
6	Packing Gland	12	Body Drain Plug	18	Gate		

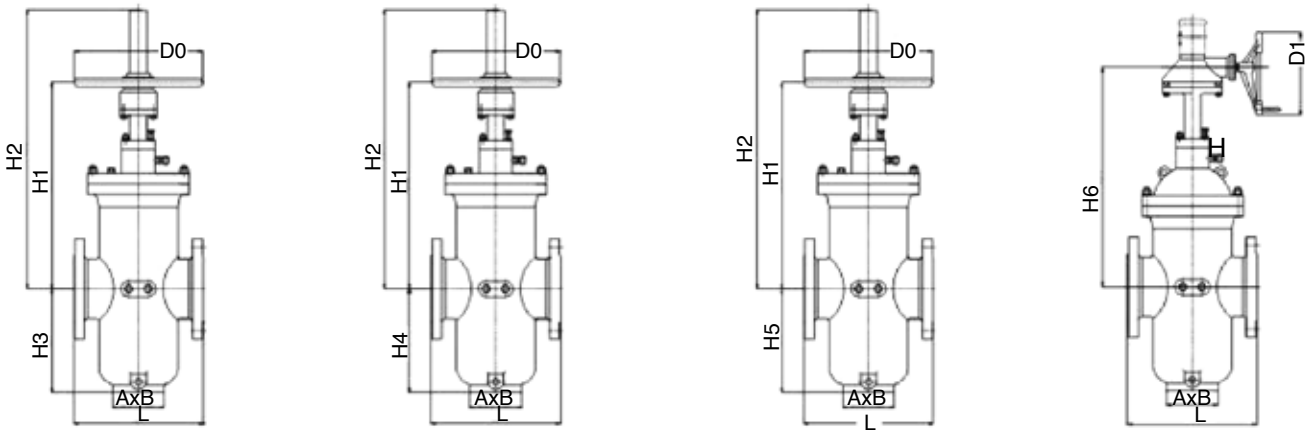
BILL OF MATERIALS



THROUGH CONDUIT SLAB GATE VALVE
PRESSURE CLASS 300#, 600#, 900#
SIZES 6" - 40"

No	Part Name	No	Part Name	No	Part Name	No	Part Name
1	Stem Protector	8	Packing Gland	15	Bonnet Gasket	22	Body
2	Indicator	9	Graphite Gland	16	O-Ring	23	Body Drain Plug
3	Handwheel	10	Lantern Ring	17	Stud	24	Nut
4	Yoke	11	Bearing	18	Spring	5	Lift Lug
5	Stem	12	Stem Grease Injection Fitting	19	Seat Ring	26	Protection Shell
6	Gate	13	Bonnet	20	Seat Insert	27	Screw
7	Gland Adjust Bolt	14		21	Sealant Injector Fitting		

DIMENSIONS CLASS 150#

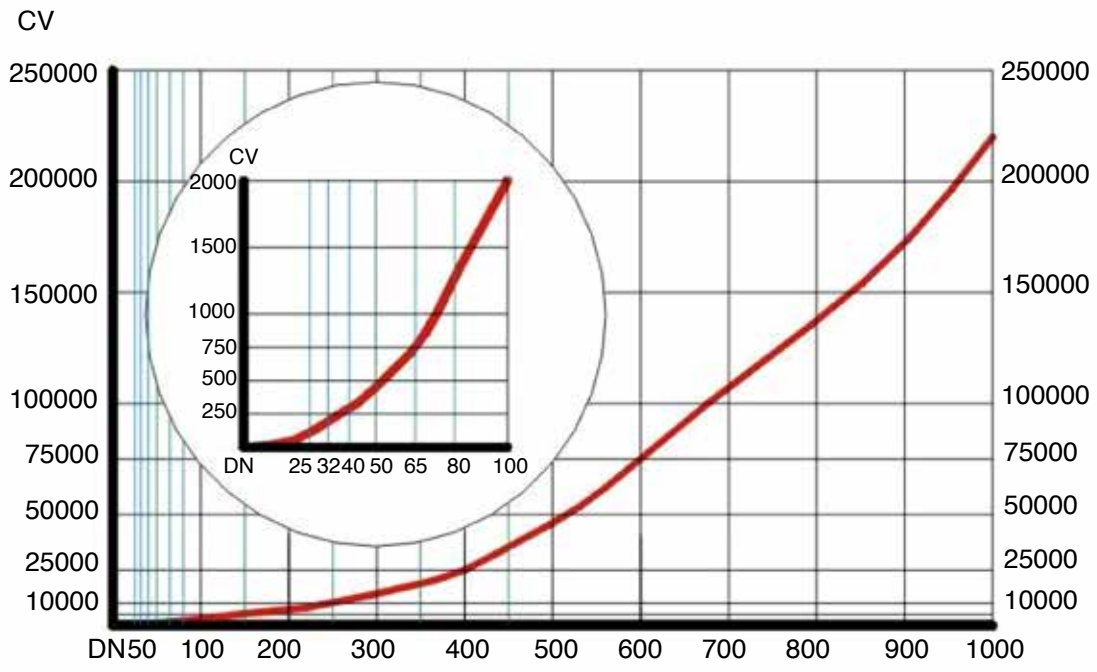


Size	Bore	L			H1	H2	H3	H4	H5	H6	Ax13	D0	D1	Approx Weight (lbs)		
In		RF	RTJ	WE										RF	RTJ	WE
2	1.93	7.00	7.50	8.50	13.86	20.08	5.83	4.33	3.74	--	3.3x3.5	9.84	--	110	110	84
2-1/2	2.44	7.50	8.00	9.50	14.65	22.48	6.73	4.80	4.02	--	2.0x4.7	9.84	--	150	157	143
3	2.91	8.00	8.50	11.00	15.67	23.43	8.62	5.67	4.53	--	88x118	9.84	--	150	157	143
4	3.94	9.00	9.50	12.00	20.39	26.81	10.12	7.32	5.04	19.49	92x138	9.84	12.20	218	232	216
5	4.92	10.00	10.50	15.00	24.96	31.50	10.94	8.07	5.43	24.21	64x170	9.84	12.20	304	326	287
6	5.91	10.50	11.00	16.00	25.75	35.04	12.32	9.45	6.61	29.09	100x202	13.78	12.20	388	397	353
8	7.91	11.50	12.00	16.50	31.02	42.28	16.14	11.22	7.28	33.86	190x234	13.78	18.11	639	662	591
10	9.92	13.00	13.50	18.00	36.61	51.30	19.29	13.66	8.11	39.57	130x302	17.72	18.11	728	750	662
12	11.93	14.00	14.50	20.00	42.28	58.58	22.44	15.75	9.17	45.59	130x300	17.72	18.11	1058	1080	849
14	13.15	15.00	15.50	22.50	46.26	63.98	25.20	17.40	10.08	50.39	160x340	21.65	24.02	1610	1621	1433
16	15.16	16.00	16.50	24.00	55.51	71.26	27.95	19.69	11.50	60.63	200x35	21.65	24.02	2183	2201	1980
18	17.17	17.00	17.50	26.00	59.21	82.68	31.50	22.44	12.99	68.31	160x500	25.59	24.02	2800	2800	2602
20	19.17	18.00	18.50	28.00	68.43	92.52	34.53	24.02	14.57	71.65	200x575	25.59	28.35	3594	3616	3308
22	21.18	20.00	●	●	69.29	98.43	37.80	26.77	15.04	73.70	250x620	25.59	28.35	4608	4631	4057
24	23.19	20.00	20.50	32.00	79.09	106	40.55	28.74	17.56	81.69	250x560	25.59	28.35	5799	5843	5468
26	24.92	22.01	●	34.00	80.31	117	43.70	30.71	19.09	85.24	365x786	25.59	28.35	6747	6747	6086
28	26.93	24.02	●	36.00	86.50	126	46.85	32.68	20.67	88.58	340x680	25.59	33.86	8026	8048	7056
30	28.94		●	36.00	91.34	131	49.61	35.04	22.05	93.70	320x720	25.59	33.86	9437	9437	8291

DIMENSIONS CLASS 150#

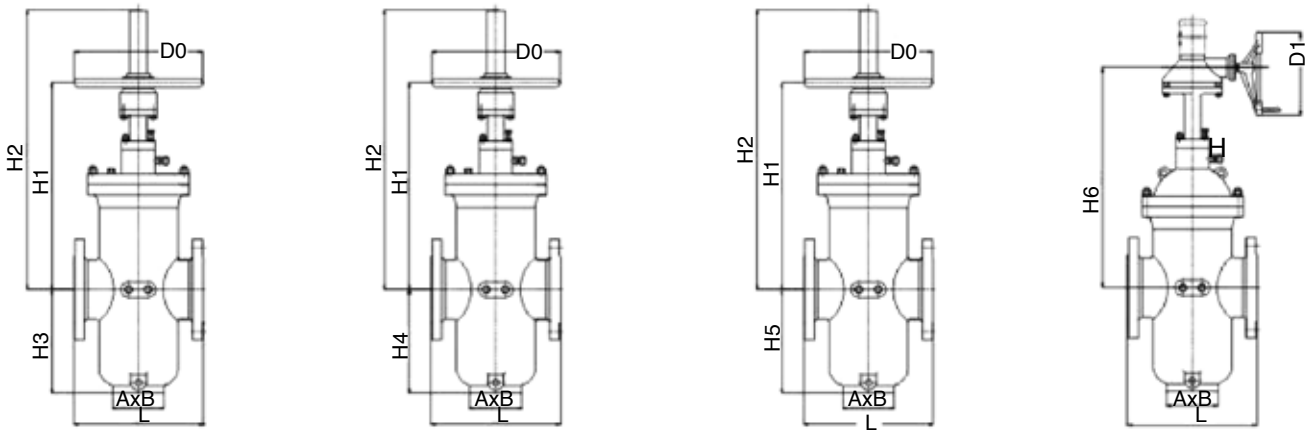
Size	Bore	L			H1	H2	H3	H4	H5	H6	Ax13	D0	D1	Approx Weight (lbs)		
In		RF	RTJ	WE										RF	RTJ	WE
32	30.67	30.35	●	38.03	101	138	49.61	35.24	22.05	94	13x30	25.59	33.86	11352	11352	9988
34	32.68	30.00	●	40.00	102	157	55.91	40.16	--	108	14x31	29.53	33.86	13530	13596	11308
36	34.41	27.99	●	40.00	108	167	167	42.64	--	113	16x24	29.53	33.86	15532	15620	13662
38	36.42	34.02	●	●	--	176	176	●	--	118	18x33	--	33.86	16940	16940	14916
40	38.43	62.01	●	●	--	185	185	●	--	124	19x36	--	33.86	18260	18370	16060
42	40.16	63.98	●	●	--	195	195	●	--	130	19x37	--	33.86	22418	22506	19734
48	45.91	70.98	●	●	--	227	227	●	--	146	19x41	--	33.86	27720	28160	24640
54	51.65	75.39	●	●	--	259	259	●	--	164	20x41	--	33.86	32560	30800	30316
56	53.54	80.00	●	●	--	269	269	●	--	170	20x43	--	33.86	35640	35816	33440
60	57.40	●	●	●	--	280	280	●	--	180	24x52	--	33.86	●	●	●

FLOW CHART



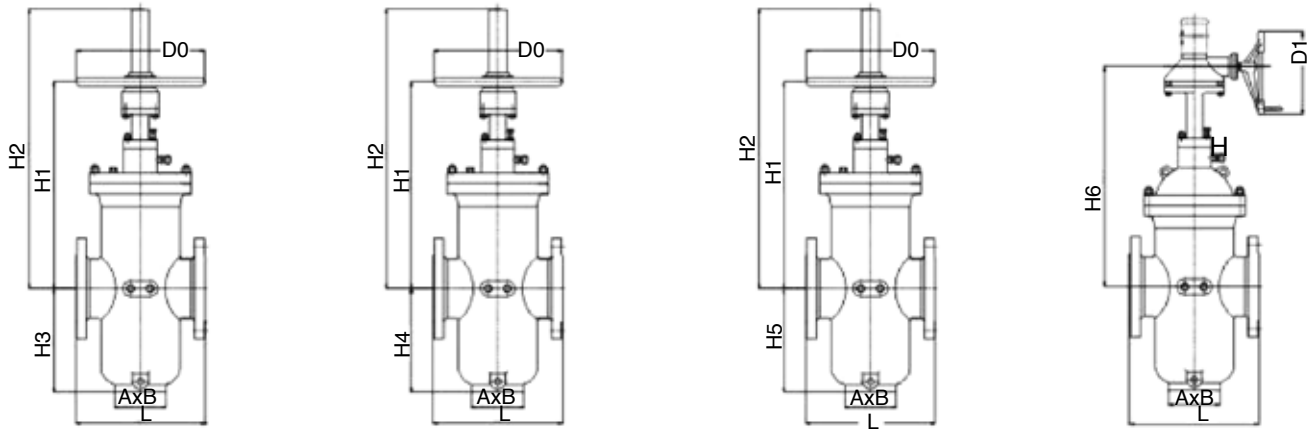
FLOW COEFFICIENT OF API 6D SLAB GATE VALVES

DIMENSIONS CLASS 300#



Size	Bore	L			H1	H2	H3	H4	H5	H6	Ax13	D0	D1	Approx Weight (lbs)		
In		RF	RTJ	WE										RF	RTJ	WE
2	1.93	8.50	9.13	8.50	13.86	20.08	6.10	4.33	3.54		2.76X4.92	9.84		121	128	119
2-1/2	2.44	9.49	10.12	9.49	14.96	22.83	6.73	5.04	3.78		2.76X5.12	9.84		132	132	128
3	2.91	11.14	11.73	11.14	15.67	23.43	8.62	5.28	4.06		3.78X5.67	9.84		165	167	154
4	3.94	12.01	12.64	12.01	20.71	27.40	10.12	7.32	4.72	22.24	3.31X7.09	9.84	12.01	341	363	319
5	4.92	15.00	15.63	15.00	24.96	32.48	10.94	8.07	5.43	27.36	3.94X9.61	13.78	12.01	352	356	330
6	5.91	15.87	16.50	15.87	25.75	37.40	12.32	9.37	6.10	29.09	3.94X11	13.78	12.20	418	440	374
8	7.91	16.50	17.13	16.50	31.02	42.28	16.93	11.22	7.68	33.86	5.51X14	13.78	12.20	726	748	638
10	9.92	17.99	18.62	17.99	36.61	49.53	19.61	13.90	8.90	41.57	5.51X16	17.72	12.20	1078	1133	946
12	11.93	19.76	20.39	19.76	43.50	61.61	22.52	16.06	10.12	48.35	7.09X19	17.72	17.72	1518	1540	1375
14	13.15	30.00	30.63	30.00	46.26	63.98	25.55	18.11	11.30	51.38	7.87X21	29.53	17.72	2200	2233	1958
16	15.16	32.99	33.62	32.99	57.28	77.76	29.02	19.69	12.99	61.73	7.87X23	33.46	29.53	3102	3146	2772
18	17.17	35.98	36.61	35.98	59.21	82.68	31.61	22.28	13.78	68.39	7.87X26	33.46	33.46	4202	4246	3564
20	19.17	39.02	39.76	39.02	71.65	82.52	34.53	25.59	15.16	71.65	7.87X28	33.46	33.86	5302	5148	4642
22	21.18	42.99	43.86	42.99	--	92.52	37.80	26.77	17.32	76.57	7.87X30	33.46	33.86	6578	6589	5984
24	23.19	45.00	45.87	45.00	--	99.21	42.52	29.13	18.78	84.65	16X32	33.46	33.86	8250	8282	7502
26	24.92	49.02	50.00	49.02	--	111	46.06	30.71	20.00	86.69	12X37	33.46	33.86	9658	9669	8734
28	26.93	52.99	54.02	52.99	--	120	48.43	32.48	22.05	95.08	24X31	33.46	33.86	11616	11658	10362
30	28.94	55.00	55.98	55.00	--	138	51.97	37.40	22.64	98.35	23X41	33.46	33.86	13618	13629	12188
32	30.67	60.00	61.14	60.00	--	143	55.51	40.94	23.62	107	31.50	33.46	33.46	16324	16346	14718
34	32.68	64.02	65.12	64.02	--	157	58.27	42.52	--	112	33.46	33.46	33.86	19470	19492	17666
36	34.41	67.99	69.13	67.99	--	167	61.02	45.67	--	116	35.43	33.46	33.86	22396	22660	20306
38	36.42	72.01	●	72.01	--	--	64.96	●	--	122	39.37	--	33.86	24640	24640	21714
40	38.43	82.01	●	82.01	--	--	66.54	●	--	127	43.31	--	33.86	26356	26356	23034
42	40.16	83.98	●	83.98	--	--	70.47	●	--	132	45.28	--	33.86	27610	27610	24046
48	45.91	90.00	●	90.00	--	--	80.31	●	--	150	24X49	--	33.86	41360	41360	38720
54	51.65	●	●	●	--	--	89.37	●	--	167	27X53	--	33.86	●	●	●
56	53.54	97.99	●	97.99	--	--	92.52	●	--	169	30X59	--	33.86	49940	49940	46200
60	57.40	●	●	●	--	--	98.39	●	--	175	30X63	--	33.86	●	●	●

DIMENSIONS CLASS 600#



Size	Bore	L			H1	H2	H3	H4	H5	H6	ϕ	D0	D1	Approx Weight (lbs)		
In		RF	RTJ	WE										RF	RTJ	WE
2	1.93	11.50	11.61	11.50	17.91	23.82	6.02	4.84	4.21	--	4.33	9.84	--	176	176	143
2-1/2	2.44	12.99	13.11	12.99	19.69	24.65	6.69	5.43	4.72	--	4.53	9.84	--	231	231	220
3	2.91	14.02	14.13	14.02	20.67	25.47	9.02	6.30	5.12	26.77	4.41	13.78	12.01	242	242	209
4	3.94	17.01	17.13	17.01	21.65	31.22	10.00	7.24	5.71	27.36	5.51	17.72	12.01	341	341	275
5	4.92	20.00	20.12	20.00	25.91	34.96	11.81	8.46	6.38	27.56	6.30	17.72	12.01	572	572	418
6	5.91	22.01	22.13	22.01	25.98	37.40	13.39	9.92	7.28	35.35	7.09	21.65	12.01	678	678	572
8	7.91	25.98	26.14	30.98	31.22	43.15	16.34	11.42	8.11	36.61	9.84	25.59	17.72	1065	1065	836
10	9.92	30.98	31.14	32.99	36.81	53.54	20.47	13.58	10.04	40.98	11.02	29.53	17.72	1650	1650	1276
12	11.93	32.99	33.11	35.00	46.65	62.48	23.23	16.14	11.61	49.21	11.97	33.46	25.20	2970	2970	2090
14	13.15	35.00	35.12	39.02	54.33	70.47	27.56	17.80	13.31	53.15	13.38	33.46	25.20	3696	3696	3058
16	15.16	39.01	39.13	42.99	--	80.00	30.71	20.28	14.41	61.81	16.54	--	31.50	4433	4433	3630
18	17.17	42.99	43.11	47.01	--	84.65	33.46	23.62	15.75	64.57	17.72	--	31.50	5896	5896	4730
20	19.17	47.01	44.09	50.98	--	93.70	37.40	25.59	16.34	71.65	17.72	--	31.50	6589	6589	5676
22	21.18	50.98	51.38	55.00	--	99.21	40.94	28.74	18.90	75.59	20.47	--	31.50	8558	8558	7194
24	23.19	55.00	55.39	57.01	--	111	45.28	31.10	19.88	85.04	23.62	--	33.86	10648	10648	8756
26	24.92	57.01	57.52	60.98	--	120	48.43	●	20.87	92.13	27.56	--	33.86	12496	12496	10978
28	26.93	60.98	61.50	65.00	--	133	51.57	35.43	21.57	95.47	29.53	--	33.86	15158	15158	13420
30	28.94	65.00	65.51	70.00	--	143	56.30	●	25.98	99.61	30.71	--	33.86	17578	17579	15818
32	30.67	70.00	70.63	70.00	--	153	59.06	●	26.77	107	30.71	--	33.86	20922	20935	18810
34	32.68	75.98	76.61	75.98	--	163	62.20	●	--	113	30.91	--	33.86	24860	24904	22660
36	34.41	82.01	82.64	82.01	--	172	65.47	●	--	124	31.69	--	33.86	26400	26444	23760
38	36.42	87.99	●	87.99	--	181	68.90	●	--	129	32.68	--	33.86	29040	29084	27500
40	38.43	94	●	93.98	--	192	72.05	●	--	132	31.34	--	33.86	32560	32604	30140
42	40.16	98	●	98	--	203	75.59	●	--	136	44.09	--	33.86	36080	36124	31900
48	45.91	106	●	106	--	231	85.43	●	--	153	46.46	--	33.86	40700	40744	36960

VALVE DATA FOR CHOOSING ACTUATOR

No	Size	ANSI Class	Diff./ Pressure (psi)	Stem Dia (in)	Pitch (in)	Lead (in)	Turns for Double Thread	Turns for Single Thread	Thrust (N)	Torque (N.m) for Double Thread	Torque (N.m) for Single Thread	Journey of Stem (in)
1	2	150	290	0.79	0.16	0.16	N	17.3	2500	N	6	2.72
2		300	725	0.79	0.16	0.16	N	17.3	5700	N	14	2.72
3		400	928	0.79	0.16	0.16	N	17.3	7200	N	18	2.72
4		600	100	0.79	0.16	0.16	N	17.3	11000	N	27	2.72
5	2.5	150	290	0.79	0.16	0.16	N	21.0	3000	N	7	3.31
6		300	725	0.79	0.16	0.16	N	21.0	6500	N	16	3.31
7		400	928	0.79	0.16	0.16	N	21.0	8300	N	21	3.31
8		600	100	0.79	0.16	0.16	N	21.0	13000	N	32	3.31
9	3	150	290	0.79	0.16	0.16	N	23.5	4300	N	10	3.70
10		300	725	0.79	0.16	0.16	N	23.5	8000	N	19	3.70
11		400	928	0.79	0.16	0.16	N	23.5	10000	N	24	3.70
12		600	100	0.79	0.16	0.16	N	23.5	15000	N	37	3.70
13	4	150	290	0.79	0.16	0.16	N	30.5	4800	N	14	4.80
14		300	725	0.94	0.20	0.20	N	24.4	9400	N	26	4.80
15		400	928	0.94	0.20	0.20	N	24.4	12000	N	32	4.80
16		600	100	0.94	0.20	0.20	N	24.4	24000	N	64	4.80
17	6	150	290	0.94	0.20	0.20	N	34.8	7680	N	20	6.85
18		300	725	0.94	0.20	0.20	N	34.8	15000	N	37	6.85
19		400	928	1.10	0.20	0.20	N	34.8	22000	N	67	6.85
20		600	100	1.26	0.24	0.24	N	29.0	40800	N	125	6.85
21	8	150	290	1.26	0.24	0.24	N	37.8	13200	N	40	8.94
22		300	725	1.26	0.24	0.24	N	37.8	25000	N	79	8.94
23		400	928	1.26	0.24	0.24	N	37.8	32000	N	99	8.94
24		600	100	1.26	0.24	0.24	N	37.8	68000	N	210	8.94
25	10	150	290	1.26	0.24	0.24	N	47.0	18000	N	55	11.1
26		300	725	1.26	0.24	0.24	N	47.0	37000	N	124	11.1
27		400	928	1.42	0.24	0.24	N	47.0	47000	N	157	11.1
28		600	100	1.42	0.24	0.24	N	47.0	101000	N	280	11.1
29	12	150	290	1.42	0.24	0.24	N	55.7	25200	N	90	13.1
30		300	725	1.42	0.24	0.24	N	55.7	49000	N	191	13.1
31		400	928	1.57	0.28	0.28	N	47.7	63000	N	249	13.1
32		600	100	1.57	0.28	0.28	N	47.7	138000	N	460	13.1
33	14	150	290	1.42	0.24	0.24	N	60.7	31200	N	130	14.3
34		300	725	1.57	0.28	0.28	N	52.0	61000	N	258	14.3
35		400	928	1.97	0.31	0.31	N	45.5	81000	N	399	14.3
36		600	100	1.97	0.31	0.31	N	45.5	175000	N	859	14.3

VALVE DATA FOR CHOOSING ACTUATOR

No	Size	ANSI Class	Diff./ Pressure (psi)	Stem Dia (in)	Pitch (in)	Lead (in)	Turns for Double Thread	Turns for Single Thread	Thrust (N)	Torque (N.m) for Double Thread	Torque (N.m) for Single Thread	Journey of Stem (in)
37	16	150	290	1.73	0.28	0.28	N	59.3	32000	N	135	16.33
38		300	725	1.73	0.28	0.28	N	59.3	76000	N	323	16.33
39		400	928	1.97	0.31	0.31	N	51.9	103000	N	495	16.33
40		600	100	1.97	0.31	0.31	N	51.9	225000	N	890	16.33
41	18	150	290	1.97	0.31	0.63	29.4	58.8	40000	193	154	18.50
42		300	725	1.97	0.31	0.63	29.4	58.8	137000	660	528	18.50
43		400	928	2.36	0.35	0.71	26.1	52.2	129000	730	584	18.50
44		600	100	2.36	0.35	0.71	26.1	52.2	282000	1600	1280	18.50
45	20	150	290	1.97	0.31	0.63	32.5	65.0	49000	235	188	20.47
46		300	725	1.97	0.31	0.63	32.5	65.0	117000	725	578	20.47
47		400	928	2.36	0.35	0.71	28.9	57.8	122000	878	702	20.47
48		600	100	2.76	0.39	0.79	26.0	52.0	358000	3138	2510	20.47
49	24	150	290	2.36	0.35	0.71	35.2	70.4	69000	366	293	24.96
50		300	725	2.36	0.35	0.71	35.2	70.4	169000	1220	975	24.96
51		400	928	2.76	0.39	0.79	31.7	63.4	224000	1840	1472	24.96
52		600	100	3.15	0.39	0.79	31.7	63.4	509000	4656	3725	24.96

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