

SC VALVES

SCORE HIGHSEAL®



HIGH PERFORMANCE BUTTERFLY VALVES

Quality Assurance:

API QMS Registered



API-607 4th



CE-PED



BVQI-ISO



DNV Certification



API-6D



ISO-9001:2000





Score Energy Products, Inc. HIGH-SEAL® Valve Model Numbering System - January 2004

VALVE STYLE, BODY, DISC, INSERT RING					INTERNAL COMPONENTS				ADDITIONAL FEATURES	OPERATOR
VALVE STYLE	ANSI CLASS	VALVE SIZE	TYPE	MATERIAL	SEAT MATERIAL	BEARING MATERIAL	SHAFT MATERIAL	PACKING MATERIAL	SEE LIST BELOW: SECTION OMITTED IF NO ADD'L FEATURES	OPERATOR

****Standard valves: Features noted in bold italic print are standard design that Score Energy Products Inc. carries in inventory.**

<p>NOTES: ** = Score Standard</p> <p>VALVE STYLE (3 digits) GTD = Soft Seated (RTFE) Design FSD = Fire Safe Design MTD = Metal Seated Design GRS = Elastomer Seated Design GTS = Teflon Lined GFB = AWWA Design</p>	<p>BODY / DISC / INSERT RING MATERIAL (1 digit) A = A216 Gr. WCB / CF8M / Carbon Steel** B = A352 Gr. LCB / CF8M / 304 Stainless Steel C = A351 Gr. CF8M / CF8M / 316 Stainless Steel** D = Monel / Monel / Monel E = Al-Bronze / Al-Bronze / Al-Bronze X = material not listed above</p>	<p>PACKING (1 digit) 1 = Grafoil (die-formed & Inconel braided combination)** 2 = PTFE 3 = RTFE X = Other</p>
<p>ANSI CLASS (2 digits) 15 = 150 30 = 300 60 = 600 90 = 900 XX = Other</p>	<p>SEAT (1 digit) 1 = RTFE** 2 = 316 SS+ RTFE**(FSD) 3 = PTFE 4 = 316 Stainless Steel 5 = Other Elastomer X = Other Metals</p>	<p>ADDITIONAL FEATURES (As many digits as required; listed as required in Alphabetical order) D = Degreased for oxygen service N = NACE MR0175 2002 (wetted components)**(FSD) P = Special paint, plating or coating X = Other special feature</p>
<p>VALVE SIZE (2 digits) Indicates nominal valve size in inches.</p> <p>Typical sizes: 02 2.5 03 04 06 08 10 12 14 16 18 20 22 24 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 64 66 72</p>	<p>BEARING (1 digit) 1 = 316 Stainless Steel + RTFE** 2 = 316 Stainless Steel X = Other</p>	<p>OPERATOR (1 digit) A = Actuator B = Bare stem G = Manual gear w/ handwheel (8" & Larger) ML = Multi-position Locking Lever LL = 10 position Locking Lever</p>
<p>TYPE (1 digit) B = Buttweld (Cast only) D = Double-flange L = Lugged wafer** W = Plain wafer** X = Other</p>	<p>SHAFT (1 digit) 1 = 630 Stainless Steel (17.4 PH)** 2 = 316L Stainless Steel 3 = 316 Stainless Steel** 4 = 304 Stainless Steel 5 = Monel 6 = 304L Stainless Steel 7 = PFA Encapsulated X = Other</p>	



Design Standards:

ANSI B16.34	<i>Valves-Wafer, Lugged, Flanged and Butt-weld ends</i>
ANSI B16.34	<i>Shell Testing to ANSI B16.34 and MSS-SP61</i>
ANSI B16.5	<i>Pipe Flanges and Fittings (24" and smaller)</i>
API-609-5th Edition	<i>Butterfly valves, Lug Type and Wafer Type to meet Face to Face dimensions of API-609 Category B Valves. Double Flanged Valves To ISO 5752 short Pattern, B16.10 Gate Valve Face to Face dimensions.</i>
API-6D	<i>Maintained since March 6/2000 and Hard copy of Certificates available on request</i>
AWWA C504	<i>High-Seal Model GFB meets AWWA C-504</i>
CE-PED	<i>HIGH-SEAL valves meet the requirements of CE-PED.</i>
CRN #	<i>Provincial registration #'s available on request</i>
Fire-Safe	<i>API607 4th edition , BS6755Part II Fire tested.</i>
ISO9001:2000	<i>Score-HIGH-SEAL registered to ISO-9001:2000</i>
ISO 5211	<i>HIGH-SEAL top-works of valves meet the requirements OF ISO 5211.</i>
MSS-SP-25	<i>Standard marking system for valves, fittings, Flanges, and Unions.</i>
MSS-SP-61	<i>Pressure testing of steel valves (Seat tested to MSS-SP-61) No Leakage is permitted for resilient seated valves.</i>
MSS-SP-68	<i>High Pressure Test - Double Offset soft seated Butterfly valves.</i>
NACE 2002	<i>Nace HIGH-SEAL valves comply with NACE 2002 Documentation and Test report (3.1B requirements) showing hardness and Chemical Compositions for All.</i>

API-607 4th Edition Fire-Test

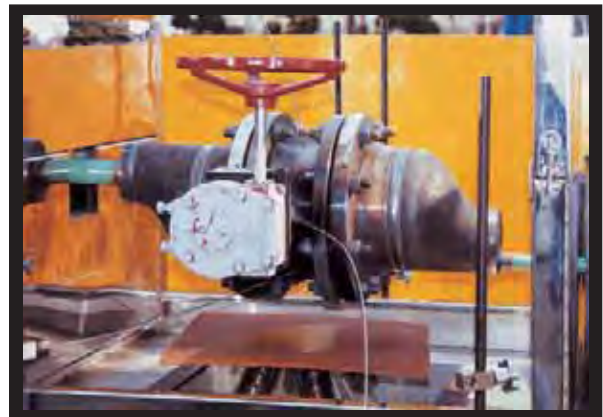


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HIGHSEAL High performance Butterfly valves have been manufactured since 1984, have an extended range of sizes from 2"-96" and have provided advanced valve solutions for the stringent requirements of today's process industry on the basis of continual Research and Development combined with Field experience.

Score-HIGHSEAL offers a complete range of valve designs to suit applications in industries including Power Plants, District Heating, Oil and Gas, Petro-chemical Industry and Waterworks in both the Commercial and Industrial markets.

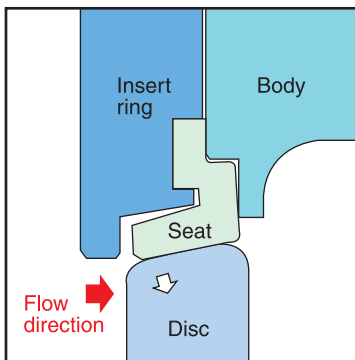
Application		Power Plant	District Heating	Gas Industry	Water/Sewage	Oil Production	Chemical	Petro Chemical	Refineries	Steel & Iron	Plant Engineering
HIGH-SEAL	GTD	●		●	●	●	●	●	●	●	●
	FSD	●		●		●	●	●	●	●	●
	MTD	●	●			●	●	●	●	●	●
BUTT WELD	BWD	●	●	●							
UNI-SEAL	GRS	●			●	●	●	●	●		●
	GTS				●		●	●			
	GFB	●	●		●	●			●		●

GTD

HIGHSEAL GTD designed for critical applications has proven reliability and efficiency in a wide range of applications for over 20 years.

The Double eccentric design minimizes the on-off torques at High Pressure, providing bubble tight shut-off.

Carbon and Stainless steel are standard Materials of construction c/w RTFE seat. Special requirements are available on request.



Seat Design



Tefflon coated body with Titanium Disc



Flange Rating:

ANSI CL. 150/CL. 300/ CL. 600
PN 10 / 16 / 25 / 40 / 64

Nominal Diameter:

DN50(2") to DN2100(84")

Temperature Range:

-40°C (-40°F) to 250°C (480°F)

Working Pressure:

Full Pressure Rating

Features:

- Bubble Tight shutoff
- Low operating Torque
- Compact F-F design
- Excellent Control characteristics
- Anti-blowout Shaft design
- Facile maintenance

Applications:

- General & Petrochemical
- Oil Refinery production
- Steel and Iron Mills
- Sugar/ Paper/ & Gas Industry
- Shipbuilding
- Combined/ Nuclear Power Plant
- Waterworks/ Sewage

Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

Options:

- Anti-static device
- Manual operator Locking Device
- Bonnet / Stem Extension
- Internal Teflon / Velzona coating
- Low Temp Design
- Material Selection for Anti-corrosion, High & Low temperature: Inconel, Monel, Titanium, CF3M, Aluminum Bronze, etc.

Soft-Seated HIGH-SEAL (GTD)

Standard Production Range

Rating	ANSI	Class 150	Class 300	Class 600
	ISO	PN 10,16,25	PN 25,40	PN64
Size	inch	2~84	2~48	3~24
	mm	50~2100	50~1200	80~600
Face-to-face dimension		ISO 5752 / short(DIN 3202 / K1), API 609, MSS SP-68		
Top flange		ISO 5211 / 1		
Connection		Wafer design, Lugged design, Flanged design		
Actuator	Manual	Lock lever handle, Worm gear		
	Automatic	Pneumatic double acting, Pneumatic spring-return, Electric motor, Hydraulic cylinder		

Main Materials

Rating	ANSI Class 150	ANSI Class 300	ANSI Class 600
Body	Carbon steel (A216-WCB)		
	304 Stainless steel (A351-CF8)		
	316 Stainless steel (A351-CF8M)		
Disc	A216-WCB/ENP (electroless nickel plate), A351-CF8, A351-CF8M		
Shaft	304SS, 316SS, 17 - 4PH(630SS)		17 - 4PH (630SS)
Seat	RTFE OR PTFE		
Shaft bearing	316SS/RTFE		
Gland packing	Graphite or PTFE		
Seal	PTFE		

Seat Material and Working Temperature

Seat materials	Maximum working temperature °C (°F)
PTFE	200 (392)
RTFE	250 (482)

Seat leakage

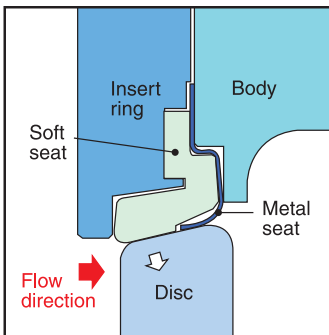
Leakage of soft-seated versions (PTFE, R-PTFE) is ZERO.

FSD

The Firesafe design of the HIGHSEAL FSD combines the function of the GTD and the MTD while providing tight shutoff at nominal pressure and temperature ratings.

FSD combined sealing system consists of a double RTFE/Metal seat requiring minimal operating torques.

FSD operates reliably with the metal seat once the RTFE is burnt out. This valve design provides consistent reliability for steam and hot air line applications among many others.



Seat Design



Flange Rating:

ANSI CL. 150/CL. 300/ CL. 600
PN 10 / 16 / 25 / 40 / 64

Nominal Diameter:

DN50 (2") to DN2100 (84")

Temperature Range:

-40°C (-40°F) to 250°C (480°F)

Working Pressure:

Full Pressure Rating

Features:

- Bubble Tight shutoff
- Fire-tested to API-607 4th Edition
- Compact Face-Face design
- Excellent control characteristics
- Anti-blowout Shaft design
- Facile maintenance

Applications:

- General & Petrochemical
- Oil Refinery production
- Steel and Iron Mills
- Excellent performance in Steam
- Shipbuilding
- Combined/ Nuclear Power Plant

Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

Options:

- Anti-static device
- Manual operator Locking Device
- Bonnet / Stem Extension
- Steam Jacketed design
- Material Selection for Anti-corrosion, High & Low temperature: Inconel Monel, titanium, CF3M, Aluminum Bronze, etc.

Fire-Safe Seated HIGH-SEAL (FSD)

Standard Production Range

Rating	ANSI	Class 150	Class 300	Class 600
	ISO	PN 10,16,25	PN 25,40	PN 64
Size	inch	2~84	2~48	3~24
	mm	50~2100	50~1200	80~600
Face-to-face dimension		ISO 5752 / short(DIN 3202 / K1), API 609, MSS SP-68		
Top flange		ISO 5211 / 1		
Connection		Wafer design, Lugged design, Flanged design		
Actuator	Manual	Lock lever handle, Worm gear		
	Automatic	Pneumatic double acting, Pneumatic spring-return, Electric motor, Hydraulic cylinder		

Main Materials

Rating	ANSI Class 150	ANSI Class 300	ANSI Class 600
Body	Carbon steel (A216-WCB)		
	304 Stainless steel (A351-CF8)		
	316 Stainless steel (A351-CF8M)		
Disc	A216-WCB/ENP (electroless nickel plate), A351-CF8, A351-CF8M		
Shaft	304SS, 316SS, 17 - 4PH(630SS)		17 - 4PH (630SS)
Seat	RTFE WITH 316SS		
Shaft bearing	304SS / 316SS		
Gland packing	Graphite		
Seal	Graphite		

Seat Material and Working Temperature

Seat materials	Maximum working temperature °C (°F)
RTFE / 316SS	260 (500)

Seat leakage

Leakage of fire-safe seated versions is ZERO.

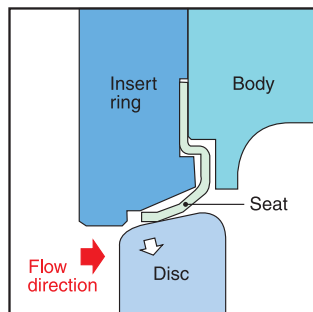
MTD

The MTD a precious metal seated Butterfly valve is well suited to Higher Temperature and pressure applications.

The double eccentric sealing system ensures low operating torques and positive sealing.

The wide selection of valve materials assures efficient performance in various applications.

All HIGHSEAL butterfly valves are tested Hydraulically and Pneumatically to ensure secure perfect seating with 3rd party verification available on request.



Seat Design

Flange Rating:

ANSI CL. 150/CL. 300/ CL. 600
PN 10 / 16 / 25 / 40 / 64

Nominal Diameter:

DN50 (2") to DN1350 (54")

Temperature Range:

-50°C (-60°F) to 650°C (1200°F)

Working Pressure:

Full Pressure Rating

Features:

- Inherent fire Safe Design
- Metal to Metal sealing
- Low Operating Torque
- Excellent Control characteristics
- Anti blowout Shaft design
- Facile maintenance

Applications:

- General & Petrochemical
- Oil Refinery Production
- Steel & Iron Mills
- Excellent performance in High Pressure Steam
- Shipbuilding
- Combined / Nuclear Power Plant

Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

Options:

- Stellite / ENP on Disc
- Anti-static device
- Manual operator Locking Device
- Bonnet / Stem Extension
- Steam Jacketed design
- Low Temp Design
- Material Selection for Anti-corrosion, High & Low temperature; Inconel, Monel, Titanium, CF3M, Aluminum Bronze, etc.

Metal Seated HIGH-SEAL (MTD)

Standard Production Range

Rating	ANSI	Class 150	Class 300	Class 600
	ISO	PN 10,16,25	PN 25,40	PN64
Size	inch	2~54	2~30	3~24
	mm	50~1350	50~750	80~600
Face-to-face dimension		ISO 5752/short(DIN3202 / K1), API 609, MSS SP-68		
Top flange		ISO 5211 / 1		
Connection		Wafer design, Lugged design, Flanged design, Buttweld design		
Actuator	Manual	Lock lever handle, Worm gear		
	Automatic	Pneumatic double acting, Pneumatic spring-return, Electric motor, Hydraulic cylinder		

Main Materials

Rating	ANSI Class 150	ANSI Class 300	ANSI Class 600
Body	Carbon steel (A216-WCB)		
	304 Stainless steel (A351-CF8)		
	316 Stainless steel (A351-CF8M)		
Disc	A216-WCB/ENP (electroless nickel plate) or Stellite		
	A351-CF8/ ENP (electroless nickel plate) or Stellite		
	A351-CF8M/ENP (electroless nickel plate) or Stellite		
Shaft	304SS, 316SS, 17 - 4PH(630SS)		17 - 4PH (630SS)
Seat	304SS, 316SS, INCONEL		
Shaft Bearing	316SS		
Gland Packing	Graphite And Nonasbestos		
Seal	Graphite		

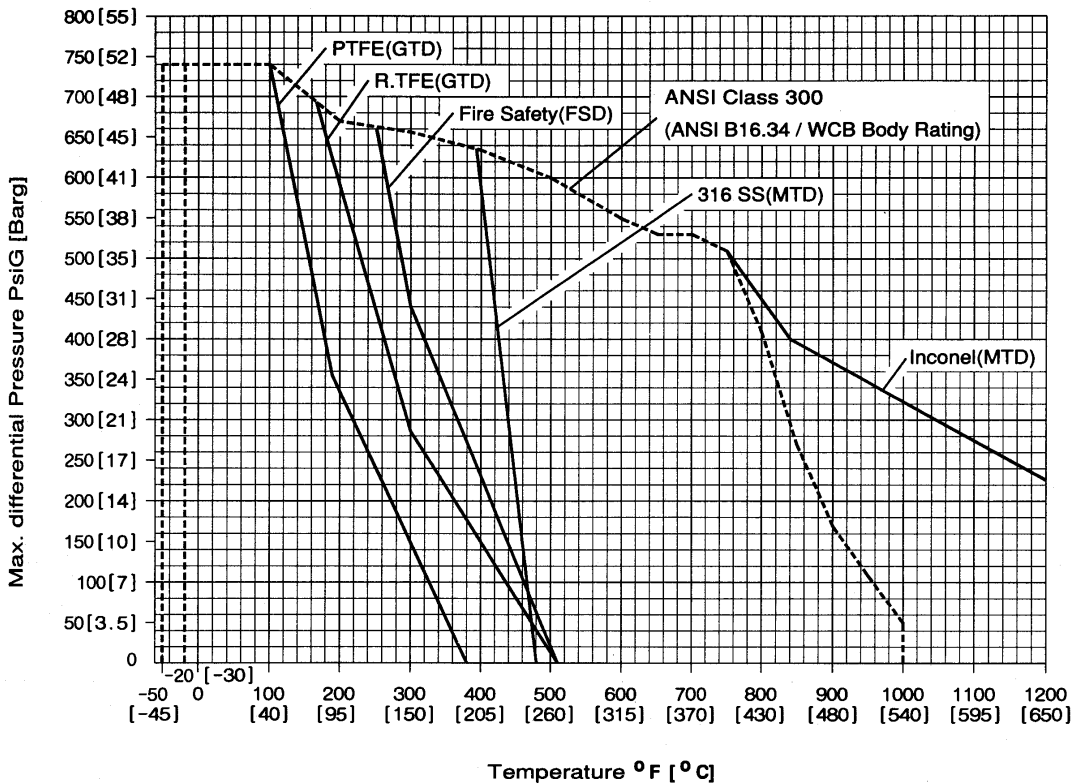
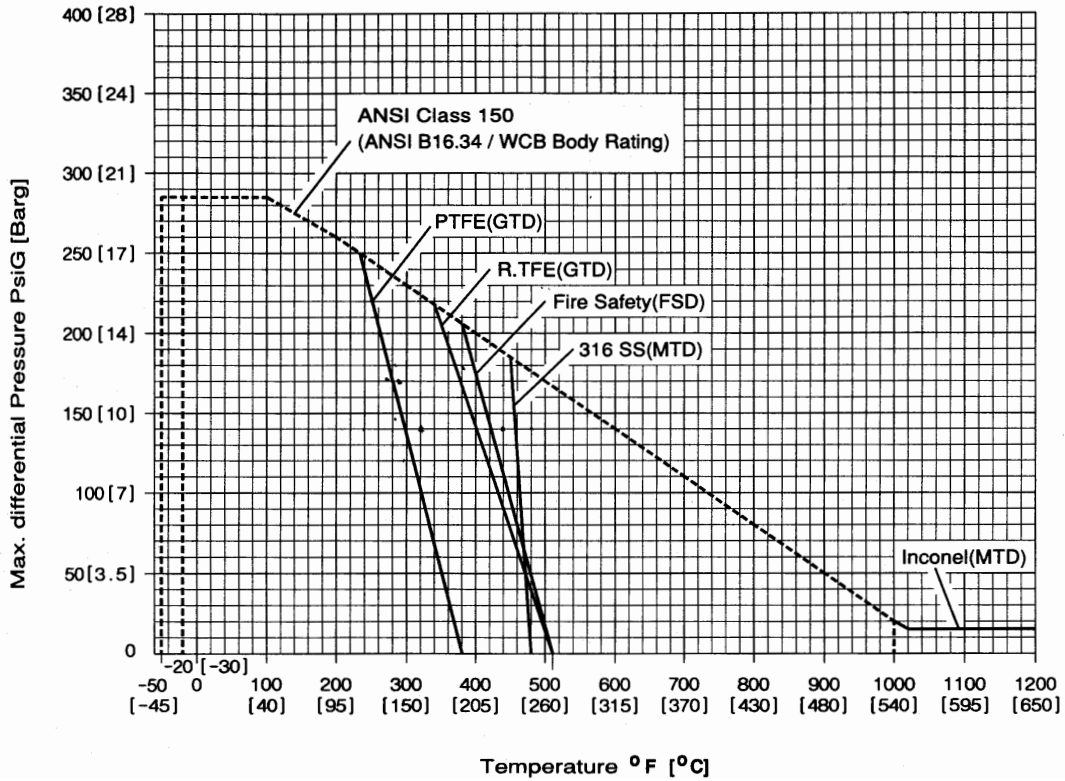
Seat Material and Working Temperature

Seat materials	Treatment on disc surface	Maximun working temperature °C (°F)
316SS	ENP (electroless nickel plate)	Below 300(572)
Inconel	ENP (electroless nickel plate)	Below 350(662)
Inconel	Stellite	Below 650(1202)

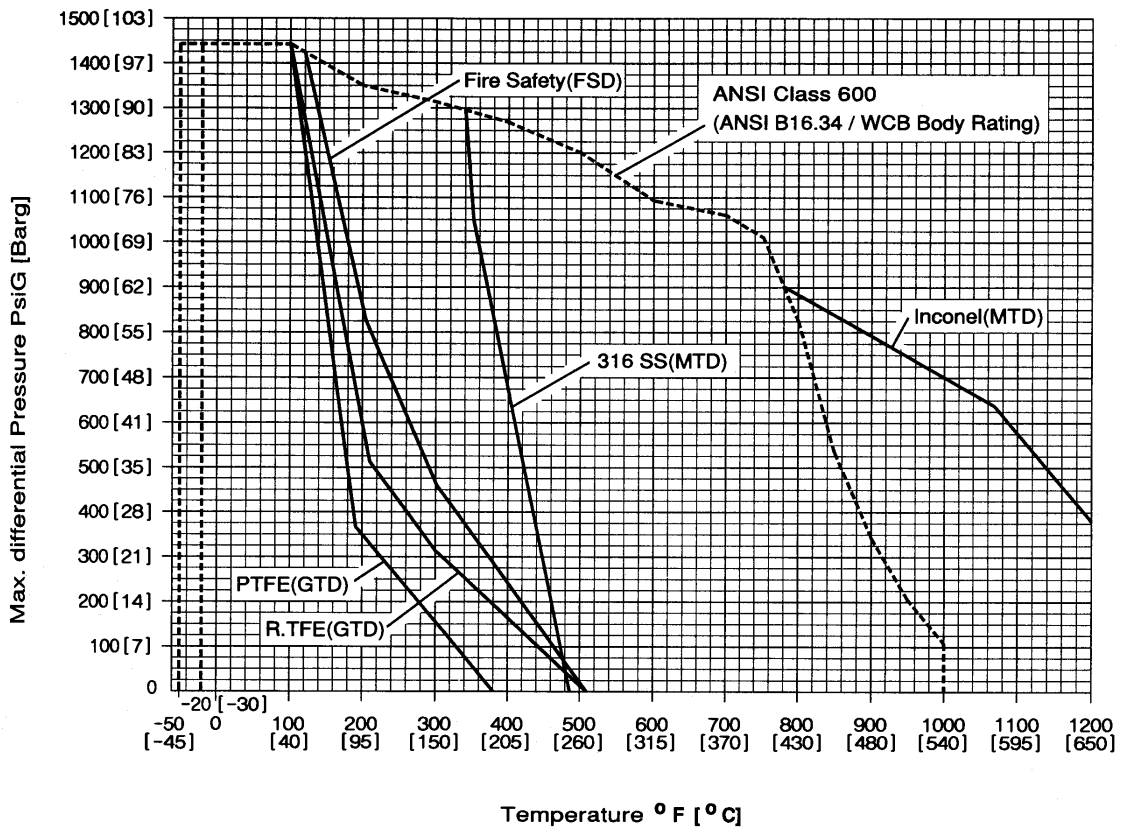
Seat leakage

Leakage of MTD type version is in accordance with the Class V of ANSI B16.104 for permissible leakage rate. For high-frequency operating cycles (open / close) and higher sealing capability (i.e. lower leakage rate), please consult our Sales Dept. or Engineering Dept.

Pressure/Temperature Charts

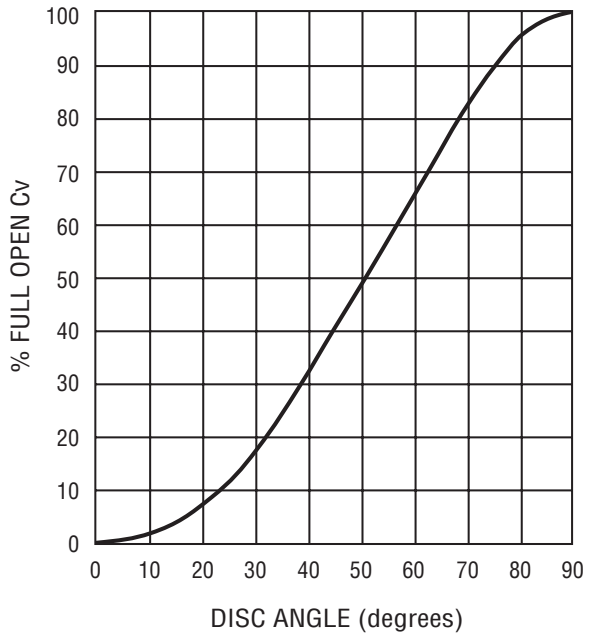


Pressure/Temperature Charts



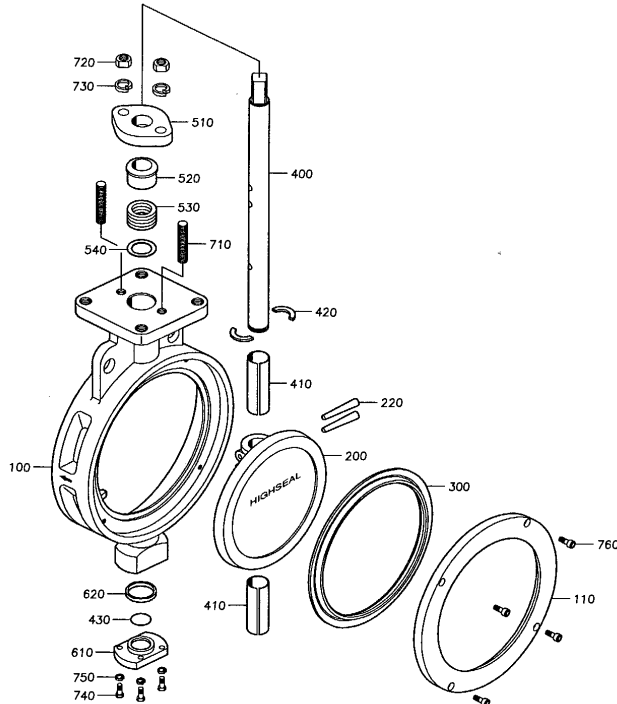
Typical Flow Characteristics

For control applications a wide variety of actuators and accessories can be provided. At moderate pressure drop conditions, turndown approaching 100 to 1 can be achieved because of the camming action of the disc opening. The disc lifts off the seat very quickly and an equal percentage control curve is produced between 15° and 75° of opening.



Bill of Materials & Parts Description

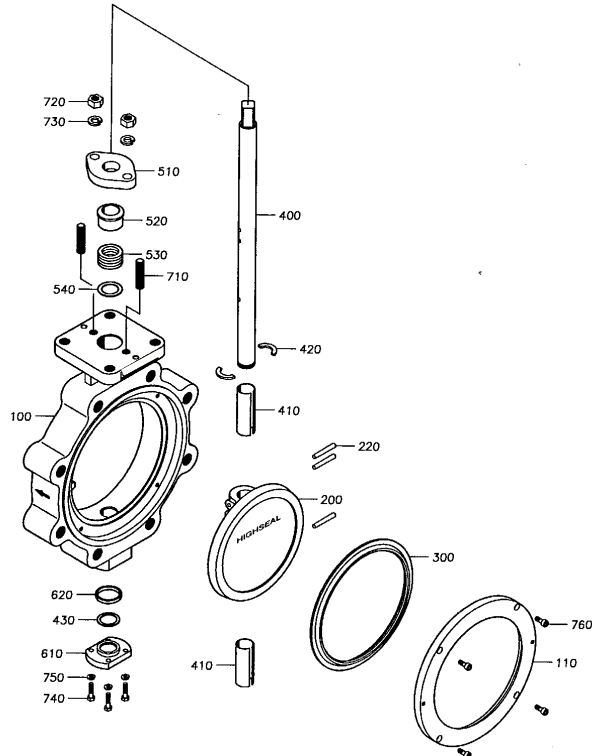
Score-HIGHSEAL - Wafer Design



GTD/Carbon Steel

Part No.	Designation	Specification	Material	
			ASTM	
100	Valve Body	101 Carbon Steel	A216 Gr WCB	
110	Insert Ring	111 Carbon Steel	AISI 1045	
		112 304 Stainless Steel	A240 Tp 304	
		201 304 Stainless Steel	A351 Gr CF8	
200	Disc	202 304L Stainless Steel	A351 Gr CF3	
		203 316 Stainless Steel	A351 Gr CF8M	
		204 316L Stainless Steel	A351 Gr CF3M	
		205 13 Cr	A217 Gr CA15	
		206 Monel	MONEL	
		207 Aluminum Bronze	B148	
		220	Disc Pin	221 316 Stainless Steel
310	Soft Seat	311 Teflon	PTFE	
		312 Reinforced Teflon	R. TFE	
400	Shaft	401 304 Stainless Steel	A276 Tp 304	
		402 304L Stainless Steel	A276 Tp 304L	
		403 316 Stainless Steel	A276 Tp 316	
		404 316L Stainless Steel	A276 Tp 316L	
		405 630 Stainless Steel	17-4PH	
		406 Monel	MONEL	
410	Shaft Bearing	411 316 Stainless Steel & Reinforced Teflon	A240 Tp 316 & R. TFE	
420	Shaft Retainer	421 316 Stainless Steel	A276 Tp 316	
430	Shaft Spacer	431 316 Stainless Steel	A240 Tp 316	
510	Gland Flange	511 304 Stainless Steel	A240 Tp 304	
520	Packing Gland	521 316 Stainless Steel	A276 Tp 316	
530	Gland Packing	531 Grafoil	GRAFOIL	
		532 Teflon	PTFE	
533 Reinforced Teflon	R. TFE			
540	Packing Retainer	541 316 Stainless Steel	A276 Tp 316	
610	Bottom Plug	611 Carbon Steel	A576 Gr 1045	
		621 Grafoil	GRAFOIL	
		622 Teflon	PTFE	
620	Bottom Packing	623 Reinforced Teflon	R. TFE	
		711 304 Stainless Steel	A193 Gr B8	
720	Hex. Nut	721 304 Stainless Steel	A194 Gr 8	
730	Spring Washer	731 304 Stainless Steel	A167 Tp 304	
740	Hex. Bolt	741 304 Stainless Steel	A193 Gr B8	
750	Spring Washer	751 304 Stainless Steel	A167 Tp 304	
760	Wrench Bolt	761 304 Stainless Steel	A193 Gr B8	
800	Parallel Key	Carbon Steel	AISI 1045	

Score-HIGHSEAL - Wafer Lugged Design

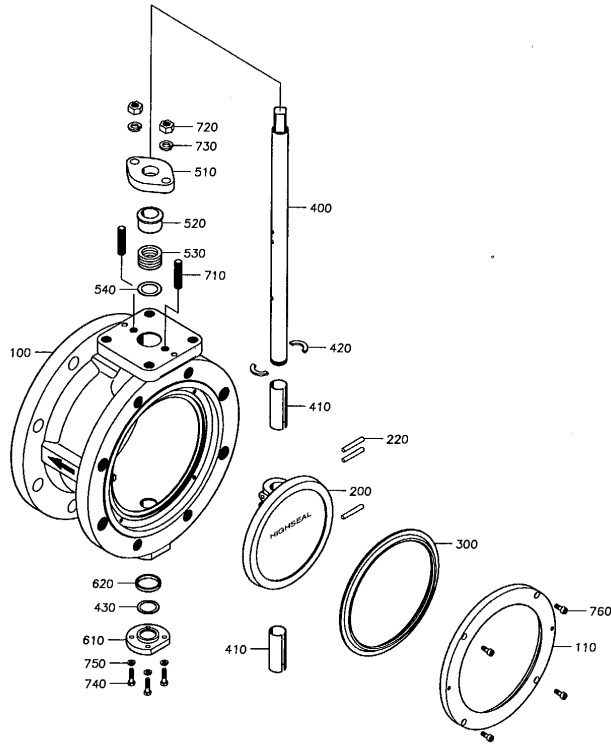


GTD/Stainless Steel

Part No.	Designation	Specification	Material			
			ASTM			
100	Valve Body	103 316 Stainless Steel	A351 Gr CF8M			
110	Insert Ring	113 316 Stainless Steel	A240 Tp 316			
		201 304 Stainless Steel	A351 Gr CF8			
		202 304L Stainless Steel	A351 Gr CF3			
200	Disc	203 316 Stainless Steel	A351 Gr CF8M			
		204 316L Stainless Steel	A351 Gr CF3M			
		205 13 Cr	A217 Gr CA15			
		206 Monel	MONEL			
		207 Aluminum Bronze	B148			
		220	Disc Pin	221 316 Stainless Steel	A276 Tp 316	
		310	Soft Seat	311 Teflon	PTFE	
312 Reinforced Teflon	R. TFE					
400	Shaft	401 304 Stainless Steel	A276 Tp 304			
		402 304L Stainless Steel	A276 Tp 304L			
		403 316 Stainless Steel	A276 Tp 316			
		404 316L Stainless Steel	A276 Tp 316L			
		405 630 Stainless Steel	17-4PH			
		406 Monel	MONEL			
410	Shaft Bearing	411 316 Stainless Steel & Reinforced Teflon	A240 Tp 316 & R. TFE			
420	Shaft Retainer	421 316 Stainless Steel	A276 Tp 316			
430	Shaft Spacer	431 316 Stainless Steel	A240 Tp 316			
510	Gland Flange	511 304 Stainless Steel	A240 Tp 304			
520	Packing Gland	521 316 Stainless Steel	A276 Tp 316			
530	Gland Packing	531 Grafoil	GRAFOIL			
		532 Teflon	PTFE			
533 Reinforced Teflon	R. TFE					
540	Packing Retainer	541 316 Stainless Steel	A276 Tp 316			
610	Bottom Plug	613 316 Stainless Steel	A276 Tp 316			
		621 Grafoil	GRAFOIL			
		622 Teflon	PTFE			
620	Bottom Packing	623 Reinforced Teflon	R. TFE			
		712 316 Stainless Steel	A193 Gr B8M			
720	Hex. Nut	722 316 Stainless Steel	A194 Gr 8M			
730	Spring Washer	732 316 Stainless Steel	A167 Tp 316			
740	Hex. Bolt	742 316 Stainless Steel	A193 Gr B8M			
750	Spring Washer	752 316 Stainless Steel	A167 Tp 316			
760	Wrench Bolt	762 316 Stainless Steel	A193 Gr B8M			
800	Parallel Key	Carbon Steel	AISI 1045			

Bill of Materials & Parts Description

Score-HIGHSEAL - Double Flanged Design

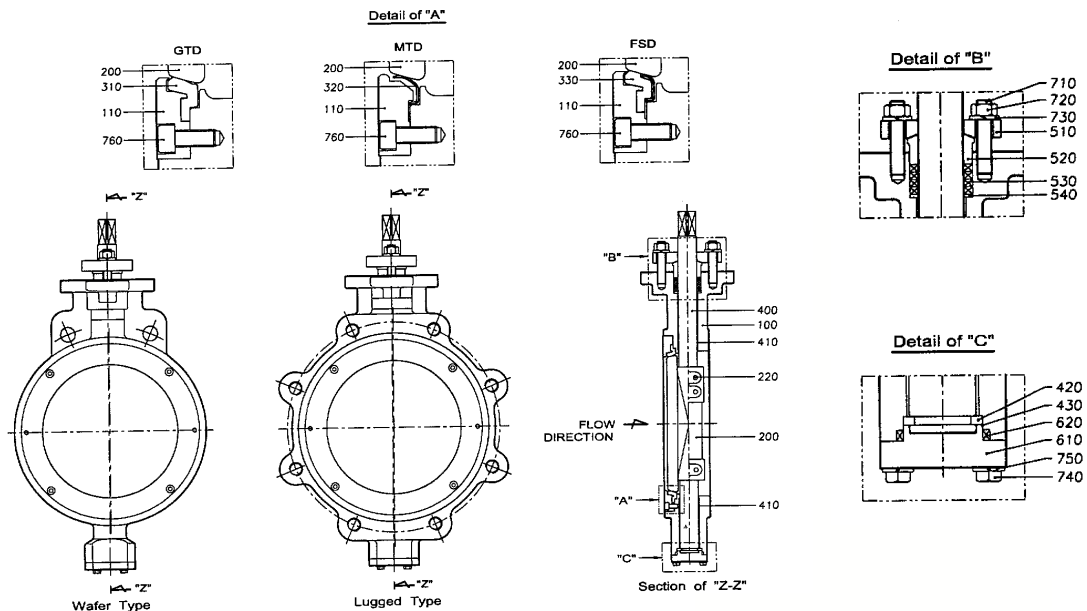


FSD/Carbon Steel

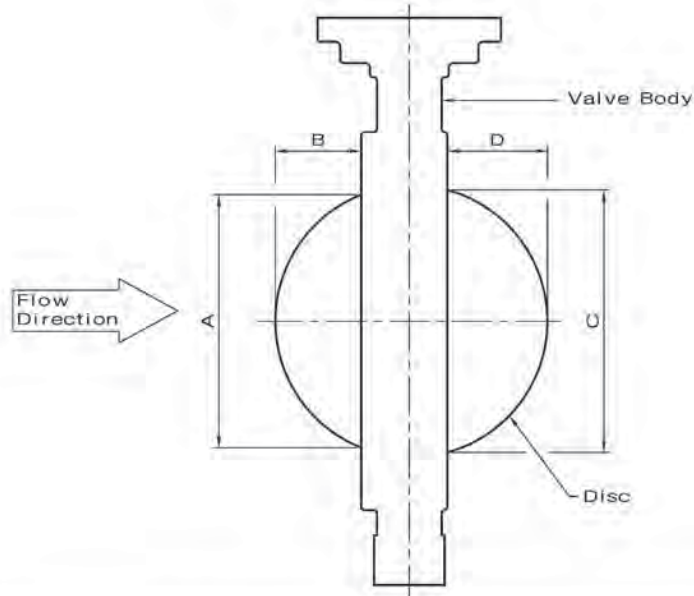
Part No.	Designation	Specification	Material
			ASTM
100	Valve Body	101 Carbon Steel	A216 Gr WCB
110	Insert Ring	111 Carbon Steel	AISI 1045
		112 304 Stainless Steel	A240 Tp 304
200	Disc	201 304 Stainless Steel	A351 Gr CF8
		202 304L Stainless Steel	A351 Gr CF3
		203 316 Stainless Steel	A351 Gr CF8M
		204 316L Stainless Steel	A351 Gr CF3M
		205 13 Cr	A217 Gr CA15
		206 Monel	MONEL
		207 Aluminum	B148
		220	Disc Pin
330	Fire-Safe Seat	331 304 Stainless Steel & Teflon	A240 Tp 304 & PTFE
		332 304 Stainless Steel & Reinforced Teflon	A240 Tp 304 & R.TFE
		333 316 Stainless Steel & Teflon	A240 Tp 316 & PTFE
		334 316 Stainless Steel & Reinforced Teflon	A240 Tp 316 & R.TFE
		335 INCONEL & Teflon	INCONEL & PTFE
		336 INCONEL & Reinforced Teflon	INCONEL & R.TFE
400	Shaft	401 304 Stainless Steel	A276 Tp 304
		402 304L Stainless Steel	A276 Tp 304L
		403 316 Stainless Steel	A276 Tp 316
		404 316L Stainless Steel	A276 Tp 316L
		405 630 Stainless Steel	17-4PH
		406 Monel	MONEL
410	Shaft Bearing	412 316 Stainless Steel	A240 Tp 316
420	Shaft Retainer	421 316 Stainless Steel	A276 Tp 316
430	Shaft Spacer	431 316 Stainless Steel	A240 Tp 316
510	Gland Flange	511 304 Stainless Steel	A240 Tp 304
520	Packing Gland	521 316 Stainless Steel	A276 Tp 316
		522 316 Stainless Steel	A276 Tp 316
530	Gland Packing	531 Grafoil	GRAFOIL
		532 Teflon	PTFE
		533 Reinforced Teflon	R.TFE
540	Packing Retainer	541 316 Stainless Steel	A276 Tp 316
610	Bottom Plug	611 Carbon Steel	A576 Gr 1045
620	Bottom Packing	621 Grafoil	GRAFOIL
		622 Teflon	PTFE
		623 Reinforced Teflon	R.TFE
710	Stud Bolt	711 304 Stainless Steel	A193 Gr B8
720	Hex. Nut	721 304 Stainless Steel	A194 Gr 8
730	Spring Washer	731 304 Stainless Steel	A167 Tp 304
740	Hex. Bolt	741 304 Stainless Steel	A193 Gr B8
750	Spring Washer	751 304 Stainless Steel	A167 Tp 304
760	Wrench Bolt	761 304 Stainless Steel	A193 Gr B8
800	Parallel Key	Carbon Steel	AISI 1045

▲ Recommend Spare Parts

Score-HIGHSEAL - Seat Details, Packing Gland Details & End Cap Details



HighSeal Valve Disc Swing Dimension



Unit : inch

Valve Size	HighSeal Valve - Class 150			
	A	B	C	D
2	0.96	0.11	1.6	0.35
2.5	1.73	0.31	2.3	0.62
3	2.41	0.55	2.7	0.75
4	3.34	0.91	3.39	0.95
5	4.27	1.23	4.51	1.46
6	5.1	1.6	5.3	1.83
8	7.06	2.4	7.26	2.68
10	8.89	3.13	9.12	3.48
12	10.41	3.69	10.7	4.16
14	12.13	4.5	12.15	4.54
16	13.66	4.96	13.92	5.4
18	15.83	5.76	16.18	6.39
20	17.75	6.55	18.01	7.02
22	19.21	6.9	19.45	7.3
24	21	7.81	21.12	8.04

Valve Size	HighSeal Valve - Class 300			
	A	B	C	D
2	0.96	0.11	1.6	0.35
2.5	1.73	0.31	2.3	0.62
3	2.41	0.55	2.7	0.75
4	3.34	0.91	3.39	0.95
5	4.27	1.23	4.51	1.46
6	5.1	1.6	5.25	1.76
8	6.97	2.28	7.1	2.44
10	8.83	3.04	8.92	3.15
12	10.49	3.7	10.57	3.82
14	11.94	4.05	12.03	4.16
16	13.33	4.34	13.82	4.97
18	15.49	5.24	15.76	5.59
20	17.31	5.98	17.51	6.26
24	20.69	7.29	20.88	7.56

Cv Values

GTD/FSD/MTD 150 ANSI CLASS

Valve Size		Unit	Cv relating to the disc in degrees of opening angle.								
Inch	mm		10°	20°	30°	40°	50°	60°	70°	80°	90°
2	50	Cv	2.1	6.4	12.9	20.2	30.4	43.2	72	81	92
		Kv	1.8	5.5	11	17.3	28	37.1	62	70	80
2.5	65	Cv	3	10.5	21	33	49.5	71	117	132	150
		Kv	2.6	9	18	28.3	42.4	61	100	115	130
3	80	Cv	5.2	18.2	36.4	57.2	86	122	203	230	260
		Kv	4.5	15.6	31.2	49	75	105	175	200	225
4	100	Cv	9.2	32.2	64.4	101	152	216	360	405	460
		Kv	7.9	27.6	55.2	87	130	185	310	350	395
5	125	Cv	15.2	53.2	106	167	251	357	595	670	760
		Kv	13	45.6	91	145	215	306	510	580	655
6	150	Cv	23	81	161	253	380	540	897	1015	1150
		Kv	19.7	70	140	220	325	465	770	870	985
8	200	Cv	42	147	295	462	695	987	1640	1850	2100
		Kv	36	126	255	396	600	845	1410	1590	1800
10	250	Cv	64	225	450	705	1056	1505	2496	2816	3200
		Kv	55	195	390	605	905	1290	2140	24315	2745
12	300	Cv	94	330	660	1035	1551	2210	3666	4136	4700
		Kv	81	285	570	890	1330	1895	3145	3545	4030
14	350	Cv	116	406	815	1276	1915	2726	4525	5105	5800
		Kv	100	350	700	1095	1645	2335	3880	4380	4970
16	400	Cv	160	560	1120	1760	2640	3760	6240	7040	8000
		Kv	137	480	960	1510	2265	3225	5350	6035	6855
18	450	Cv	210	735	1470	2310	3465	4935	8190	9240	10500
		Kv	180	630	1260	1980	2970	4230	7020	7920	9000
20	500	Cv	280	980	1960	3080	4620	6580	10920	12320	14000
		Kv	240	840	1680	2640	3960	5640	9360	10560	12000
22	550	Cv	365	1275	2550	4005	6006	8555	14196	16016	18200
		Kv	315	1095	2190	3435	5150	7330	12165	13730	15595
24	600	Cv	420	1470	2940	4620	6930	9870	16380	18480	21000
		Kv	360	1260	2520	3960	5940	8460	14040	15835	17995
26	650	Cv	500	1750	3500	550	8250	11750	19500	22000	25000
		Kv	430	1500	3000	4715	7070	10070	16710	18855	21425
28	700	Cv	580	2030	4060	6380	9570	13630	22620	25520	29000
		Kv	500	1740	3480	5470	8200	11680	19385	21870	24850
30	750	Cv	670	2345	4690	7370	11055	15745	26130	29840	33500
		Kv	575	2010	4020	6315	9480	13495	22390	25265	28710
32	800	Cv	820	2870	5740	9020	13530	19270	31980	36080	41000
		Kv	705	2460	4920	7730	11595	16515	27405	30920	35135
34	850	Cv	960	3360	6720	10560	15840	22560	37440	42240	48000
		Kv	825	2880	5760	9050	13575	19335	32085	36195	41135
36	900	Cv	1100	3850	7700	12100	18150	25850	42900	48400	55000
		Kv	945	3300	6600	10370	15555	22150	36760	41475	47130
38	950	Cv	1225	4285	8570	13465	20200	28765	47736	53856	61200
		Kv	1050	3675	7350	11540	17310	24650	40905	46150	52445
40	1000	Cv	1400	4900	9800	15400	23100	32900	54600	61600	70000
		Kv	1200	4200	8400	13200	19795	28195	46790	52785	59985
42	1050	Cv	1505	5255	10510	16511	24770	35275	58540	66045	75050
		Kv	1290	4505	9010	14150	21230	30230	50165	56595	64310
44	1100	Cv	1740	6090	12180	19140	28710	40890	67860	76560	87000
		Kv	1495	5220	10440	16405	24605	35040	58150	65605	74550
46	1150	Cv	1980	6930	13860	21780	32670	46530	77220	87120	99000
		Kv	1700	5940	11880	18665	27995	39875	66170	74655	84835
48	1200	Cv	2080	7280	14560	22880	34320	48880	81120	91520	104000
		Kv	1785	6240	12480	19605	29410	41890	69515	78425	89120
50	1250	Cv	2315	8095	16185	25435	38150	54335	90170	101730	115600
		Kv	1985	6940	13870	21800	32690	46560	72270	87170	99060

Cv Values

GTD/FSD/MTD 150 ANSI CLASS

Valve Size		Unit	Cv relating to the disc in degrees of opening angle.								
Inch	mm		10°	20°	30°	40°	50°	60°	70°	80°	90°
52	50	Cv	2510	8780	17560	27590	41385	58940	97815	110360	125400
		Kv	2150	7530	15050	23640	35460	50510	83820	94560	107460
54	65	Cv	2670	9345	18690	29370	44055	62745	104130	117480	133500
		Kv	2290	8010	16015	25170	37750	53770	89230	100670	114400
56	80	Cv	2980	10430	20860	32780	49170	70030	116220	131120	149000
		Kv	2555	8940	17875	28090	42135	60010	99590	112360	127680
58	100	Cv	3080	10780	21560	33880	50820	72380	120120	135520	154000
		Kv	2640	9240	18745	23035	43550	62025	102930	116130	131970
60	125	Cv	3180	11130	22260	34980	52470	74730	124020	139920	159000
		Kv	2725	9540	19075	29980	44965	64040	106280	119900	136250
64	150	Cv	3460	12110	24220	38060	57090	81310	134940	152240	173000
		Kv	2965	10380	20755	32615	48920	69675	115630	130460	148250
66	200	Cv	3640	12740	25480	40040	60060	85540	141960	160160	182000
		Kv	3120	10920	21835	34310	51465	73300	121650	137240	155960
72	250	Cv	4020	14070	28140	44220	66330	94470	156780	176880	201000
		Kv	3445	12060	24115	37900	56840	80955	134350	151570	172240

GTD/FSD/MTD 300 ANSI CLASS

Valve Size		Unit	Cv relating to the disc in degrees of opening angle.								
Inch	mm		10°	20°	30°	40°	50°	60°	70°	80°	90°
2	50	Cv	2.1	6.4	12.9	20.2	30.4	43.2	72	81	92
		Kv	1.8	5.5	11	17.3	28	37.1	62	70	80
2.5	65	Cv	3	10.5	21	33	49.5	71	117	132	150
		Kv	2.6	9	18	28.3	42.4	61	100	115	130
3	80	Cv	5.2	18.2	36.4	57.2	86	122	203	230	260
		Kv	4.5	15.6	31.2	49	75	105	175	200	225
4	100	Cv	9.2	32.2	64.4	101	152	216	360	405	460
		Kv	7.9	27.6	55.2	87	130	185	310	350	395
5	125	Cv	15.2	53.2	106	167	251	357	595	670	760
		Kv	13	45.6	91	145	215	306	510	580	655
6	150	Cv	23	81	161	253	380	540	897	1015	1150
		Kv	19.7	70	140	220	325	465	770	870	985
8	200	Cv	38	133	266	418	627	895	1485	1675	1900
		Kv	33	115	230	360	540	770	1270	1440	1800
10	250	Cv	56	196	392	616	925	1316	2185	2465	2800
		Kv	48	170	336	530	795	1130	1875	2115	2400
12	300	Cv	82	287	575	905	1355	1930	3200	3610	4100
		Kv	70	246	495	780	1160	1660	2740	3095	3515
14	350	Cv	110	385	770	1210	1815	2585	4290	4840	5500
		Kv	95	330	660	1040	1555	2215	3680	4150	4715
16	400	Cv	152	532	1065	1675	2510	3575	5930	6690	7600
		Kv	130	456	915	1440	2150	3060	5080	5730	6515
18	450	Cv	198	695	1390	2180	3270	4655	7725	8715	9900
		Kv	170	600	1190	1870	2800	2990	6620	7470	8485
20	500	Cv	260	910	1820	2860	4290	6110	10140	11440	13000
		Kv	225	780	1560	2450	3680	5235	8690	9805	11140
24	600	Cv	390	1365	2730	4290	6435	9165	15210	17160	19500
		Kv	335	1170	2340	3680	5515	7855	13035	14705	16710
28	700	Cv	572	2005	4005	6295	9440	13445	22310	25170	28600
		Kv	490	1720	3435	5395	8080	11520	191120	21570	24510
30	750	Cv	675	2360	4720	7415	11125	15840	26290	29660	33700
		Kv	580	2025	4045	6360	9530	13575	22530	25420	28880
32	800	Cv	815	2845	5685	8935	13400	19085	31670	35730	40600
		Kv	700	2440	4870	7660	11480	16360	27140	30620	34790
36	900	Cv	1050	3665	7325	11510	17260	24585	40795	46025	52300
		Kv	900	3140	6280	9860	14790	21070	34960	39440	44815
40	1000	Cv	1380	4830	9660	15180	22770	32430	53820	60720	69000
		Kv	1185	4140	8280	13010	19515	27790	46120	52030	59130
42	1050	Cv	1470	5135	10265	16130	24190	34455	57175	64505	73300
		Kv	1260	4400	8800	13820	20730	29530	48995	55280	62810
44	1100	Cv	1700	5950	11900	18700	28050	39950	66300	74800	85000
		Kv	1460	5100	10200	16030	24040	34240	56815	64100	72840
48	1200	Cv	2060	7210	14420	22660	33990	48410	80340	90640	103000
		Kv	1765	6180	12360	19420	29130	41485	68845	77670	88260

Cv Values

GTD/FSD/MTD 600 ANSI CLASS

Valve Size		Unit	Cv relating to the disc in degrees of opening angle.								
Inch	mm		10°	20°	30°	40°	50°	60°	70°	80°	90°
3	80	Cv	3.1	10.9	21.7	34.1	51.2	72.9	120	137	155
		Kv	2.7	9.3	18.6	29.2	43.8	62.4	105	120	135
4	100	Cv	5.1	17.9	35.7	56.1	84.2	120	200	225	255
		Kv	4.4	15.3	30.6	48.1	72.1	105	170	195	220
5	125	Cv	11.6	450.6	81.2	130	192	275	455	510	580
		Kv	9.9	34.8	69.6	110	165	235	390	440	500
6	150	Cv	20.4	71.4	143	225	340	480	795	900	1020
		Kv	17.5	61.2	125	195	290	410	685	770	875
8	200	Cv	27	95	190	297	450	635	1055	1190	1350
		Kv	23	81	165	255	390	545	905	1020	1160
10	250	Cv	41	144	290	451	680	965	1600	1805	2050
		Kv	35	125	250	390	580	830	1370	1550	1760
12	300	Cv	56	196	395	616	925	1316	2185	2465	2800
		Kv	48	170	340	530	795	1130	1875	2115	2400
14	350	Cv	78	273	550	860	1290	1835	3045	3435	3900
		Kv	67	235	470	740	1110	1570	2610	2940	3345
16	400	Cv	102	357	715	1125	1685	2400	3980	4490	5100
		Kv	87	305	615	965	1445	2055	3410	3850	4370
18	450	Cv	110	385	770	1210	1815	2585	4290	4840	5500
		Kv	95	330	660	1040	1555	2215	3680	4150	4715
20	500	Cv	158	555	1110	1740	2610	3715	6165	6955	7900
		Kv	135	475	950	1490	2235	3185	5280	5960	6770
24	600	Cv	222	780	1555	2445	3665	5220	8660	9770	11100
		Kv	190	670	1335	2095	3140	4470	7420	8370	9515

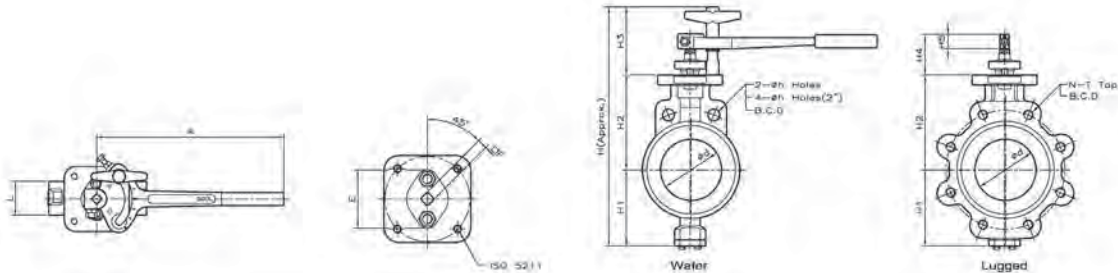
BWD 150 ANSI CLASS

Valve Size		Unit	Cv relating to the disc in degrees of opening angle.								
Inch	mm		10°	20°	30°	40°	50°	60°	70°	80°	90°
6	150	Cv	15.6	55	110	172	257	367	610	686	780
		Kv	13.4	47	95	147	220	315	525	590	670
8	200	Cv	29	102	203	320	480	682	1131	1276	1450
		Kv	25	87	175	275	410	585	970	1095	1245
10	250	Cv	45	158	315	495	745	1060	1755	1980	2250
		Kv	39	135	270	424	640	910	1505	1700	1930
12	300	Cv	66	231	462	726	1090	1551	2575	2905	3300
		Kv	57	198	396	622	935	1330	2205	2490	2830
14	350	Cv	90	315	630	990	1485	2115	3610	3960	4500
		Kv	77	270	540	850	1275	1815	3010	3395	3860
16	400	Cv	132	462	925	1452	2180	3102	5150	5810	6600
		Kv	113	396	795	1245	1870	3660	4415	4980	5655
18	450	Cv	170	595	1190	1870	2805	3995	6630	7480	8500
		Kv	146	510	1020	1605	2405	3425	5685	6410	7285
20	500	Cv	226	791	1585	2490	3730	5311	8815	9945	11300
		Kv	194	678	1360	2130	3200	4555	7555	8525	9685
24	600	Cv	356	1246	2495	3920	5875	8370	13885	15665	17800
		Kv	305	1070	2140	3360	5035	7170	11890	13425	15255
26	650	Cv	432	1512	3025	4755	7130	10155	16850	19010	21600
		Kv	370	1295	2595	4080	6110	8700	14440	16290	18510
28	700	Cv	520	1820	3640	5720	8580	12220	20280	22880	26000
		Kv	446	1560	3120	4905	7355	10475	17380	19610	22280
30	750	Cv	610	2135	4270	6710	10065	14335	23970	26840	30500
		Kv	523	1830	3660	5750	8625	12285	20385	23000	26135
32	800	Cv	745	2605	5210	8185	12280	17485	29020	32740	37200
		Kv	640	2235	4465	7015	10520	14985	24865	28055	31880
34	850	Cv	850	2975	5950	9350	14025	19975	33150	37400	42500
		Kv	730	2550	5100	8015	12020	171120	28410	32050	36420
36	900	Cv	940	3290	6580	10340	15510	22090	36660	41360	47000
		Kv	805	2820	5640	8860	132900	18930	31415	35445	40275
40	1000	Cv	1260	4410	8820	13860	20790	29610	49140	55440	63000
		Kv	1080	3780	7560	11880	17815	25375	42110	47510	53985
42	1050	Cv	1320	4620	9240	14520	21780	31020	51480	58080	66000
		Kv	1135	3960	7920	12445	18665	26585	44115	49770	56555
44	1100	Cv	1560	5460	10920	17160	25740	36660	60840	68640	78000
		Kv	1340	4680	9360	14705	22060	31415	52135	58820	66840
48	1200	Cv	1900	6650	13300	20900	31350	44650	74100	83600	95000
		Kv	1630	5700	11400	17910	26865	38260	63500	71640	81405

HIGHSEAL VALVES

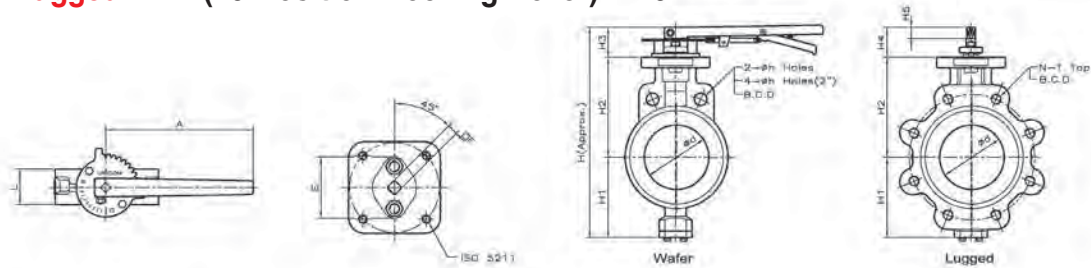
GTD/MTD/FSD ANSI Class 150 (PN10 / PN16 / PN20 / PN25)

Wafer and Lugged - ML (Multi-position Locking Lever) 2"-6"



Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	φd in.	A in.	E in.	F in.	L in.	B.C.D in.	φh in.	N-T	ISO 5211	T1 lbs.	T2 lbs.
2	12.36	3.94	4.13	4.29	2.56	0.91	1.93	11.81	2.76	0.43	1.69	4.75	0.75	4-5/8"x11unc	F10	15	18
2.5	13.19	4.06	4.84	4.29	2.56	0.91	2.44	11.81	2.76	0.47	1.81	5.5	0.75	4-5/8"x11unc	F10	18	22
3	13.94	4.53	5.12	4.29	2.56	0.91	2.91	11.81	2.76	0.47	1.88	6.0	0.75	4-5/8"x11unc	F10	20	27
4	15.07	4.80	5.98	4.29	2.56	0.91	3.74	11.81	2.76	0.47	2.12	7.5	0.75	8-5/8"x11unc	F10	24	40
5	17.48	6.38	6.77	4.33	2.56	0.94	4.65	13.78	2.76	0.63	2.25	8.5	0.88	8-3/4"x10unc	F10	31	49
6	17.80	6.38	7.09	4.33	2.56	0.94	5.43	13.78	2.76	0.63	2.25	9.5	0.88	8-3/4"x10unc	F10	40	53

Wafer and Lugged - LL (10 Position Locking Lever) 2"-6"

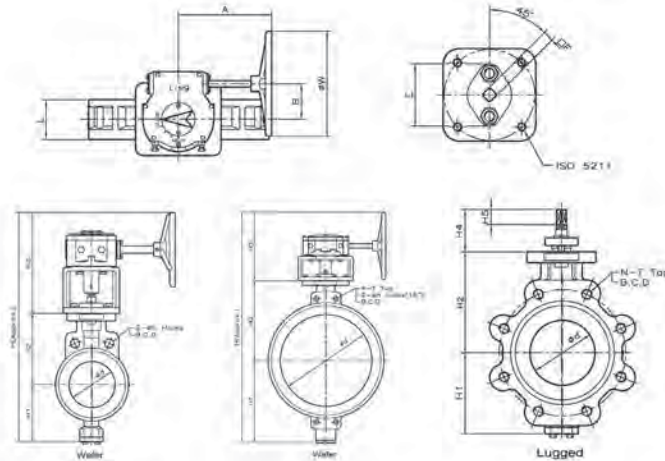


Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	φd in.	A in.	E in.	F in.	L in.	B.C.D in.	φh in.	N-T	ISO 5211	T1 lbs.	T2 lbs.
2	10.63	3.94	4.13	2.56	2.56	0.91	1.93	11.81	2.76	0.43	1.69	4.75	0.75	4-5/8"x11unc	F10	15	18
2.5	11.46	4.06	4.84	2.56	2.56	0.91	2.44	11.81	2.76	0.47	1.81	5.5	0.75	4-5/8"x11unc	F10	18	22
3	12.20	4.53	5.12	2.56	2.56	0.91	2.91	11.81	2.76	0.47	1.88	6.0	0.75	4-5/8"x11unc	F10	20	27
4	13.35	4.80	5.98	2.56	2.56	0.91	3.74	11.81	2.76	0.47	2.12	7.5	0.75	8-5/8"x11unc	F10	24	40
5	15.71	6.38	6.77	2.56	2.56	0.94	4.65	13.78	2.76	0.63	2.25	8.5	0.88	8-3/4"x10unc	F10	31	49
6	16.02	6.38	7.09	2.56	2.56	0.94	5.43	13.78	2.76	0.63	2.25	9.5	0.88	8-3/4"x10unc	F10	40	53

HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 150 (PN10 / PN16 / PN20 / PN25)

Wafer and Lugged - Gear Operated (2"-24")

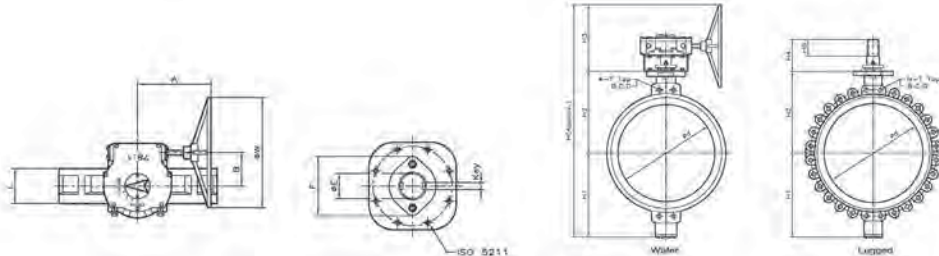


<ul style="list-style-type: none"> • Flange Rating; ANSI B16.5 Class150 • L = Face to Face dimensions according to API Std. 609 (EN 588/ ISO 5752/ BS 5155/ DIN 3202 on request) • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																					
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	ød In.	A In.	B In.	øW In.	øE In.	DF In.	L In.	B.C.D In.	øh In.	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.	
2	16.57	3.94	4.13	8.19	2.56	0.91	1.93	8.50	1.91	6.30	2.76	0.43	1.89	4.75	0.75	4-5/8"x11unc	F10	26 : 1	33	38	
2.5	17.40	4.06	4.84	8.19	2.56	0.91	2.44	8.50	1.91	6.30	2.76	0.47	1.81	5.5	0.75	4-5/8"x11unc	F10	26 : 1	35	40	
3	17.99	4.53	5.12	8.19	2.56	0.91	2.91	8.50	1.91	6.30	2.76	0.47	1.88	6.0	0.75	4-5/8"x11unc	F10	26 : 1	40	44	
4	19.29	4.80	5.98	8.19	2.56	0.91	3.74	8.50	1.91	6.30	2.76	0.47	2.12	7.5	0.75	8-5/8"x11unc	F10	26 : 1	42	55	
5	21.65	6.38	6.77	8.19	2.56	0.94	4.65	8.50	1.91	6.30	2.76	0.63	2.25	8.5	0.88	8-3/4"x10unc	F10	26 : 1	49	64	
6	21.97	6.38	7.09	8.19	2.56	0.94	5.43	8.50	1.91	6.30	2.76	0.63	2.25	9.5	0.88	8-3/4"x10unc	F10	26 : 1	55	71	
8	28.58	7.76	8.46	11.77	3.35	1.38	7.40	10.24	2.80	11.02	3.78	0.75	2.50	11.75	0.88	8-3/4"x10unc	F14	34 : 1	81	103	
10	31.22	9.02	9.84	11.77	3.35	1.38	9.25	10.24	2.80	11.02	3.78	0.87	2.81	14.25	1.00	12-7/8"x9unc	F14	34 : 1	108	141	
12	33.81	10.63	10.83	11.77	3.54	1.57	10.83	10.24	2.80	11.02	3.78	1.06	3.19	17.00	1.00	12-7/8"x9unc	F14	34 : 1	132	183	
14	36.85	12.09	12.40	11.77	3.54	1.57	12.52	10.24	2.80	11.02	3.78	1.18	3.62	18.75	1.12	12-1"x8unc	F14	34 : 1	165	238	
<ul style="list-style-type: none"> • Flange Rating; ANSI B16.5 Class150 • L = Face to Face dimensions according to API Std. 609 (EN 558/ ISO 5752/ BS 5155/ DIN 3202 on request) • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																					
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	ød In.	A In.	B In.	øW In.	øE In.	F In.	Key In.	L In.	B.C.D In.	øh In.	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
16	43.46	13.78	14.17	15.51	9.06	3.94	14.21	12.20	4.17	14.25	1.65	4.88	0.59x0.47-3.35L	4.0	21.25	1.12	16-1"x8unc	F16	46 : 1	302	392
18	45.43	14.76	15.18	15.51	9.06	3.94	16.42	12.20	4.17	14.25	1.65	4.88	0.59x0.47-3.35L	4.50	22.75	-	16-1 1/8"x8unc	F16	46 : 1	333	459
20	48.35	16.46	16.38	15.51	9.06	3.94	18.43	12.20	4.17	14.25	2.16	4.88	0.59x0.47-3.35L	5.0	25.0	-	20-1 1/8"x8unc	F16	46 : 1	456	527
22	52.14	18.19	17.72	16.22	9.84	4.33	20.12	14.17	5.39	15.98	2.60	5.59	0.79x0.47-3.94L	6.06	27.25	-	20-1 1/4"x8unc	F25	64 : 1	617	794
24	54.5	19.37	18.90	16.22	9.84	4.33	21.61	14.17	5.39	15.98	2.60	5.59	0.79x0.47-3.94L	6.06	29.5	-	20-1 1/4"x8unc	F25	64 : 1	730	959

HIGHSEAL VALVES

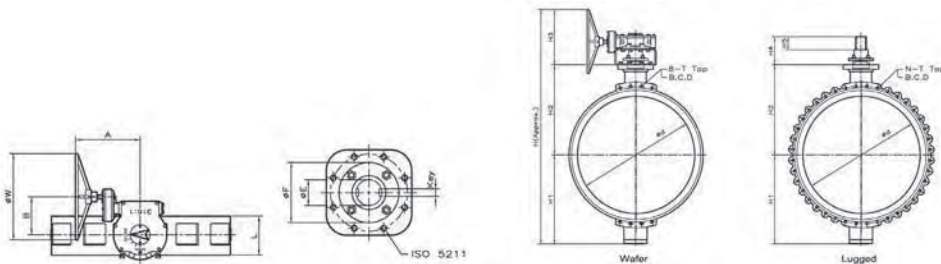
GTD/MTD/FSD ANSI Class 150 (PN10 / PN16 / PN20 / PN25)

Wafer and Lugged - Gear Operated (26"-48")



- Flange Rating; ANSI B16.47 Series A Class150(MSS SP-44)
- L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155/ DIN 3202 on request)
- T1 = Weight of Wafer Type(With Gear Box)
- T2 = Weight of Lugged Type(With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	A in.	B in.	øW in.	øE in.	øF in.	Key in.	L in.	B,C,D in.	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
26	58.94	21.65	21.06	16.22	9.84	4.33	23.86	14.17	5.39	15.98	2.80	7.48	0.79x0.47-3.94L	6.50	31.75	24-1 1/4"x8un	F25	64 : 1	928	
28	61.70	23.03	22.44	16.22	9.84	4.33	25.79	14.17	5.39	15.98	2.80	7.48	0.79x0.47-3.94L	6.50	34.00	28-1 1/4"x8un	F25	64 : 1	950	
30	66.10	23.82	23.23	19.06	9.06	4.72	27.48	15.75	7.17	23.62	3.15	7.48	0.87x0.55-4.33L	7.48	36.00	28-1 1/4"x8un	F25	78 : 1	1318	1612
32	67.91	24.63	24.33	19.06	9.06	4.72	29.69	15.75	7.17	23.62	3.15	7.48	0.87x0.55-4.33L	7.48	36.50	28-1 1/2"x8un	F25	78 : 1	1287	1854
34	71.02	26.38	25.59	19.06	9.06	4.72	32.09	15.75	7.17	23.62	3.15	7.48	0.87x0.55-4.33L	7.99	40.5	32-1 1/2"x8un	F25	78 : 1		
36	73.82	27.80	27.17	19.06	9.06	4.72	34.25	15.75	7.17	23.62	3.15	7.48	0.87x0.55-4.33L	7.99	42.75	32-1 1/2"x8un	F25	78 : 1	1761	
38	77.32	29.92	28.35	19.06	9.06	4.72	36.22	15.75	7.17	23.62	3.15	7.48	0.87x0.55-4.33L	7.99	45.25	32-1 1/2"x8un	F25	78 : 1		



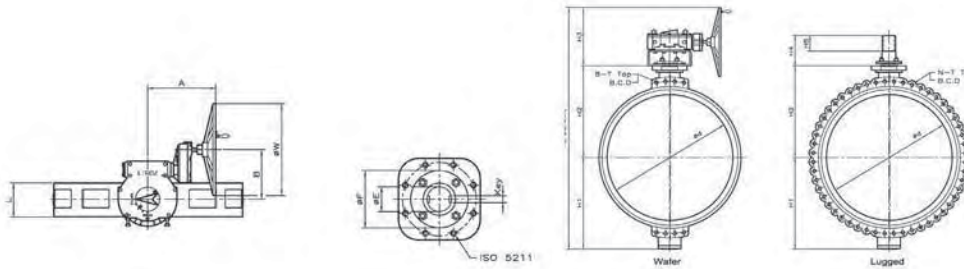
- Flange Rating; ANSI B16.47 Series A Class150(MSS SP-44)
- L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155/ DIN 3202 on request)
- T1 = Weight of Wafer Type(With Gear Box)
- T2 = Weight of Lugged Type(With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	A in.	B in.	øW in.	øE in.	øF in.	Key in.	L in.	B,C,D in.	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
40	80.08	30.71	29.13	20.24	10.24	4.72	37.40	17.72	10.35	23.62	3.15	7.87	0.87x0.55-4.33L	8.50	47.25	36-1 1/2"x8un	F25	316 : 1	2227	
42	84.41	33.66	30.51	20.24	10.24	4.72	40.0	17.72	10.35	23.62	3.15	8.90	0.87x0.55-4.33L	9.49	49.5	36-1 1/2"x8un	F30	316 : 1		3695
44	85.60	33.86	31.50	20.24	10.24	4.72	40.87	17.72	10.35	23.62	3.15	8.82	0.87x0.55-4.33L	9.49	51.75	40-1 1/2"x8un	F30	316 : 1	2954	
46	87.56	34.25	33.07	20.24	10.24	4.72	42.91	17.72	10.35	23.62	3.94	9.13	1.10x0.63-4.53L	10.0	53.75	40-1 1/2"x8un	F30	316 : 1		
48	90.32	35.43	34.65	20.24	10.24	4.72	44.88	17.72	10.35	23.62	3.94	9.13	1.10x0.63-4.53L	10.0	56.00	44-1 1/2"x8un	F30	316 : 1		

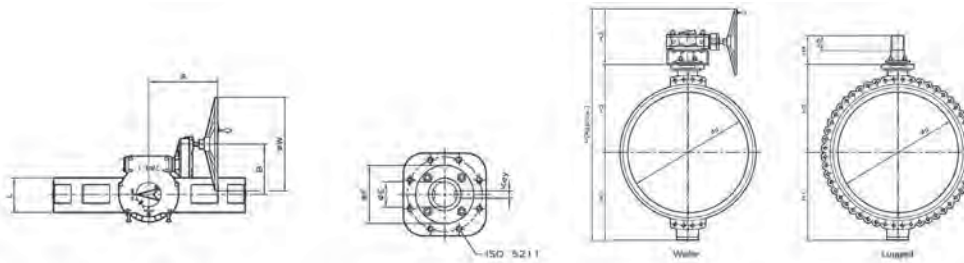
HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 150 (PN10 / PN16 / PN20 / PN25)

Wafer and Lugged - Gear Operated (50"-72")



Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	A in.	B in.	øW in.	øE in.	øF in.	Key in.	L in.	B.C.D in.	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
50	97.98	36.61	35.83	25.54	13.78	7.09	47.40	23.23	16.97	31.50	5.51	10.63	1.42x0.79-6.69L	10.79	58.25	44-1 3/4"x8un	F35	705 : 1		
52	100.94	37.40	37.10	25.54	13.78	7.09	49.37	23.23	16.97	31.50	5.51	10.63	1.42x0.79-6.69L	10.79	60.50	44-1 3/4"x8un	F35	705 : 1		
54	104.10	38.58	38.98	25.54	13.78	7.09	51.65	23.23	16.97	31.50	5.51	10.87	1.42x0.79-6.69L	11.02	62.75	44-1 3/4"x8un	F35	705 : 1		
56	106.06	39.37	40.16	25.54	13.78	7.09	53.27	23.23	16.97	31.50	5.51	10.87	1.42x0.79-6.69L	11.42	65.0	48-1 3/4"x8un	F35	705 : 1		
58	108.63	40.75	41.34	25.54	13.78	7.09	55.28	23.23	16.97	31.50	5.91	11.65	1.57x0.87-6.69L	11.81	67.25	48-1 3/4"x8un	F35	705 : 1		
60	110.00	41.73	41.73	25.54	13.78	7.09	57.24	23.23	16.97	31.50	5.91	11.65	1.57x0.87-6.69L	11.81	69.25	52-1 3/4"x8un	F35	705 : 1		

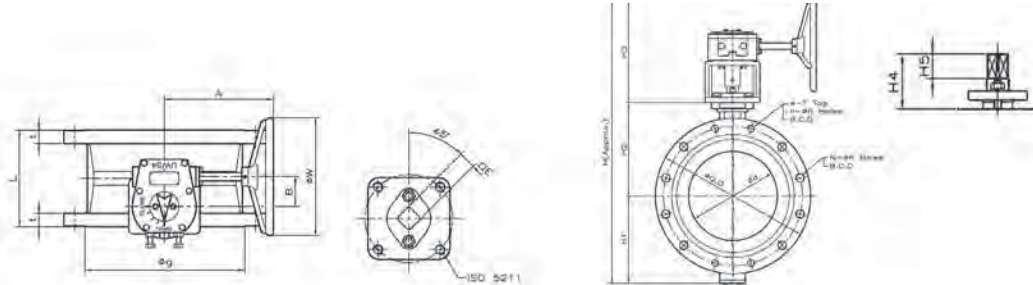


Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	A in.	B in.	øW in.	øE in.	øF in.	Key in.	L in.	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
64	121.97	46.46	46.06	29.45	16.54	8.27	61.02	25.59	20.0	31.50	7.09	14.17	1.77x0.98-7.87L	12.52	F48	788 : 1		
66	124.72	48.03	47.24	29.45	16.54	8.27	62.99	25.59	20.0	31.50	7.09	14.17	1.77x0.98-7.87L	12.52	F48	788 : 1		
72	131.02	51.18	50.39	29.45	16.54	8.27	68.90	25.59	20.0	31.50	7.09	14.17	1.77x0.98-7.87L	14.02	F48	788 : 1		

DOUBLE FLANGED HIGHSEAL VALVES

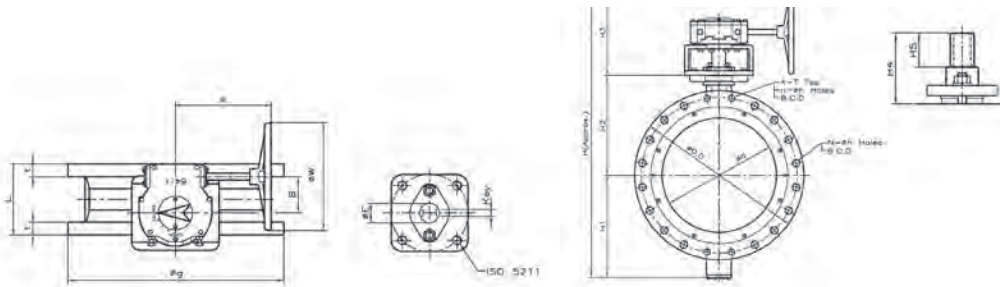
GTD/MTD/FSD ANSI Class 150 (PN10 / PN16 / PN20 / PN25)

Double Flanged - Gear Operated (4"-24")



• Flange Rating; ANSI B16.5 Class150
 • L = Face to Face dimensions according to API Std. 609 (EN 558/ ISO 5752/ BS 5155 on request)
 • T1 = Weight (With Gear Box)

Size	H	H1	H2	H3	H4	H5	ϕd	ϕq	$\phi O.D.$	A	B	ϕW	ϕE	t	L	B.C.D	N-øh	n-T	ISO 5211	GEAR RATIO	T1 lbs.
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.			
4	19.69	5.20	5.98	8.50	2.56	0.91	3.74	6.18	9.02	7.09	1.91	6.30	0.47	0.94	5.0	7.50	8-0.75	4-5/8"x11unc	F10	26 : 1	57
5	21.65	6.38	6.77	8.50	2.56	0.94	4.65	7.31	10.00	7.09	1.91	6.30	0.63	0.94	5.50	8.50	8-0.88	4-3/4"x10unc	F10	26 : 1	75
6	21.97	6.38	7.09	8.50	2.56	0.94	5.43	8.50	10.98	7.09	1.91	6.30	0.63	1.0	5.50	9.50	8-0.88	4-3/4"x10unc	F10	26 : 1	88
8	28.58	7.76	8.46	12.36	3.35	1.38	7.40	10.62	13.50	10.24	2.80	11.02	0.75	1.12	6.0	11.75	8-0.88	4-3/4"x10unc	F14	34 : 1	160
10	31.22	9.02	9.84	12.36	3.35	1.38	9.25	12.75	15.98	10.24	2.80	11.02	0.87	1.19	6.50	14.25	12-1.0	8-7/8"x9unc	F14	34 : 1	205
12	34.21	10.63	11.22	12.36	3.54	1.57	10.83	15.0	19.02	10.24	2.80	11.02	1.06	1.25	7.00	17.00	12-1.0	8-7/8"x9unc	F14	34 : 1	256
14	36.85	12.09	12.40	12.36	3.54	1.57	12.52	16.25	20.98	10.24	2.80	11.02	1.18	1.38	7.50	18.75	12-1.12	8-1"x8unc	F14	34 : 1	382



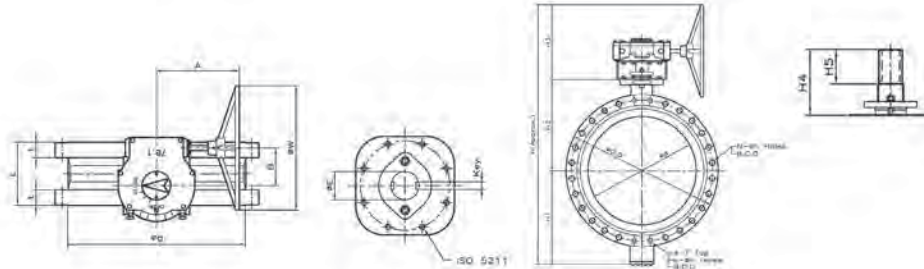
• Flange Rating; ANSI B16.5 Class150
 • L = Face to Face dimensions according to API Std. 609 (EN 558/ ISO 5752/ BS 5155 on request)
 • T1 = Weight (With Gear Box)

Size	H	H1	H2	H3	H4	H5	ϕd	ϕq	$\phi O.D.$	A	B	ϕW	ϕE	t	Key	L	B.C.D	N-øh	n-T	ISO 5211	GEAR RATIO	T1 lbs.
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.			
16	43.46	13.78	14.17	15.51	9.06	3.94	14.21	18.50	23.50	12.20	4.17	14.25	1.65	1.44	0.59x0.47-3.35L	8.50	21.25	16-1.12	12-1"x8unc	F16	46 : 1	507
18	45.43	14.76	15.16	15.51	9.06	3.94	16.42	21.0	25.00	12.20	4.17	14.25	1.65	1.56	0.59x0.47-3.35L	8.75	22.75	16-1.25	12-1 1/8"x8unc	F16	46 : 1	564
20	48.35	16.46	16.38	15.51	9.06	3.94	18.43	23.0	27.52	12.20	4.17	14.25	2.20	1.69	0.59x0.47-3.35L	9.00	25.0	20-1.25	16-1 1/8"x8unc	F16	46 : 1	657
22	52.14	18.19	17.72	16.22	9.84	4.33	20.12	25.25	29.49	14.17	5.39	15.98	2.60	1.81	0.79x0.47-3.94L	10.50	27.25	20-1.38	16-1 1/4"x8unc	F25	64 : 1	871
24	54.5	19.37	18.90	16.22	9.84	4.33	21.81	27.25	32.01	14.17	5.39	15.98	2.60	1.88	0.79x0.47-3.94L	10.50	29.5	20-1.38	16-1 1/4"x8unc	F25	64 : 1	1043

DOUBLE FLANGED HIGHSEAL VALVES

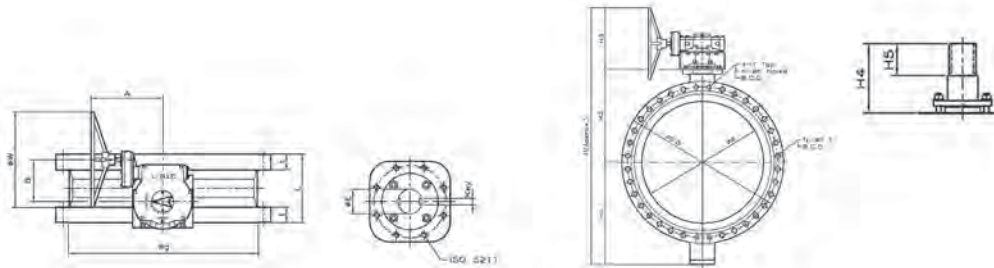
GTD/MTD/FSD ANSI Class 150 (PN10/PN16/PN20/PN25)

Double Flanged - Gear Operated (26"-48")



• Flange Rating: ANSI B16.47 Series A Class150(MSS SP-44)
 • L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request)
 • T1 = Weight (With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	øg in.	øO.D in.	A in.	B in.	øW in.	øE in.	t in.	Key in.	L in.	B.C.D in.	N-øh in.	n-T	ISO 5211	GEAR RATIO	T1 lbs.
26	58.94	21.65	21.06	16.22	9.84	4.33	23.86	29.49	34.25	14.17	5.39	15.98	2.60	2.69	0.79x0.47-3.94L	11.50	31.75	24-1.38	20-1 1/4"x8un	F25	64 : 1	
28	61.70	23.03	22.44	16.22	9.84	4.33	25.79	31.50	36.50	14.17	5.39	15.98	2.60	2.81	0.79x0.47-3.94L	11.50	34.00	28-1.38	24-1 1/4"x8un	F25	64 : 1	1590
30	66.10	23.82	23.23	19.06	9.06	4.72	27.48	33.74	38.74	15.75	7.17	23.62	3.15	2.94	0.87x0.55-4.33L	11.50	36.00	28-1.38	24-1 1/4"x8un	F25	78 : 1	
32	67.91	24.53	24.33	19.06	9.06	4.72	29.69	35.98	41.77	15.75	7.17	23.62	3.15	3.18	0.87x0.55-4.33L	12.52	38.50	28-1.61	24-1 1/2"x8un	F25	78 : 1	
34	71.02	26.38	25.59	19.06	9.06	4.72	32.09	37.99	43.74	15.75	7.17	23.62	3.15	3.25	0.87x0.55-4.33L	12.52	40.5	32-1.61	28-1 1/2"x8un	F25	78 : 1	
36	73.78	27.56	27.17	19.06	9.06	4.72	34.33	40.24	46.98	15.75	7.17	23.62	3.15	3.56	0.87x0.55-4.33L	12.99	42.75	32-1.61	28-1 1/2"x8un	F25	78 : 1	1867
38	76.54	29.13	28.35	19.06	9.06	4.72	36.22	42.24	48.74	15.75	7.17	23.62	3.15	3.44	0.87x0.55-4.33L	12.99	45.25	32-1.61	28-1 1/2"x8un	F25	78 : 1	



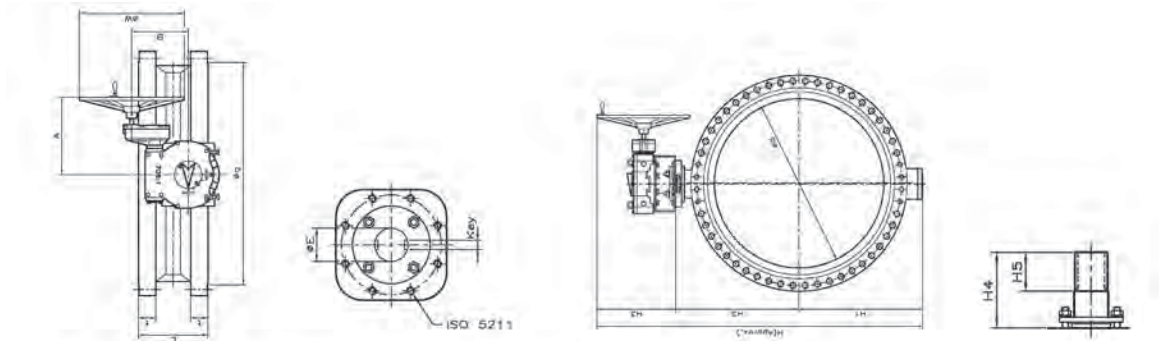
• Flange Rating: ANSI B16.47 Series A Class150(MSS SP-44)
 • L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request)
 • T1 = Weight (With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	øg in.	øO.D in.	A in.	B in.	øW in.	øE in.	t in.	Key in.	L in.	B.C.D in.	N-øh in.	n-T	ISO 5211	GEAR RATIO	T1 lbs.
40	80.08	30.71	29.13	20.24	10.24	4.72	37.48	44.25	50.75	17.72	10.35	23.62	3.15	3.56	0.87x0.55-4.33L	16.14	48.04	36-1.61	32-1 1/2"x8un	F25	316:1	3622
42	83.62	33.66	30.51	20.24	10.24	4.72	39.92	47.01	52.99	17.72	10.35	23.62	3.15	3.81	0.87x0.55-4.33L	16.93	49.50	36-1.61	32-1 1/2"x8un	F30	316:1	
44	85.80	33.88	31.50	20.24	10.24	4.72	41.02	49.02	55.24	17.72	10.35	23.62	3.15	4.02	0.87x0.55-4.33L	17.72	51.75	40-1.61	36-1 1/2"x8un	F30	316:1	
46	87.56	34.25	33.07	20.24	10.24	4.72	42.99	50.98	57.24	17.72	10.35	23.62	3.94	4.08	1.10x0.63-4.53L	18.50	53.75	40-1.61	36-1 1/2"x8un	F30	316:1	
48	90.32	35.43	34.65	20.24	10.24	4.72	44.96	53.50	59.49	17.72	10.35	23.62	3.94	4.25	1.10x0.63-4.53L	18.50	56.0	44-1.61	40-1 1/2"x8un	F30	316:1	

DOUBLE FLANGED HIGHSEAL VALVES

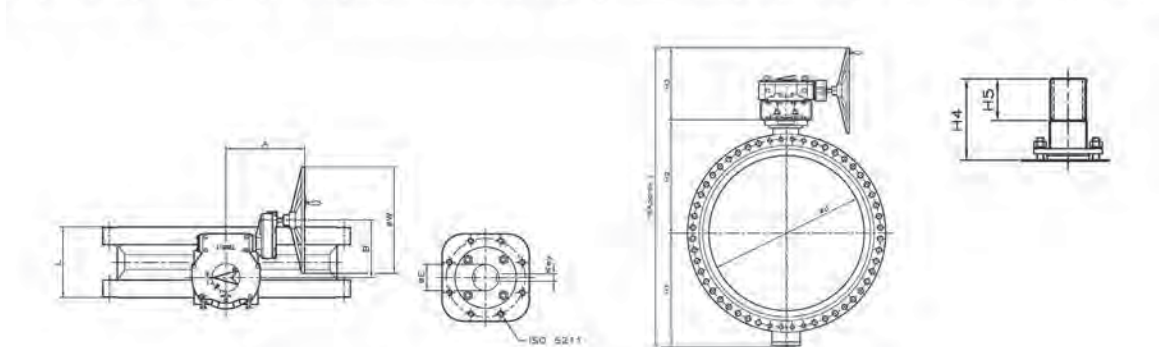
GTD/MTD/FSD ANSI Class 150 (PN10 / PN16 / PN20 / PN25)

Double Flanged - Gear Operated (50"-72")



• Flange Rating; ANSI B16.47 Series A Class150(MSS SP-44)
 • L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request)
 • T1 = Weight (With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	øø in.	øO.D in.	A in.	B in.	øW in.	øE in.	t in.	Key in.	L in.	B.C.D in.	N-øh in.	n-T	ISO 5211	GEAR RATIO	T1 lbs.
50	97.98	35.61	35.83	25.54	13.78	7.09	47.40	55.51	61.77	23.23	16.97	31.50	5.51	4.37	1.42x0.79-6.69L	19.29	58.25	44-1.89	36-1 3/4"x8un	F35	705:1	
52	100.94	37.40	37.01	25.54	13.78	7.09	49.37	57.52	64.02	23.23	16.97	31.50	5.51	4.57	1.42x0.79-6.69L	19.29	60.50	44-1.89	36-1 3/4"x8un	F35	705:1	
54	104.10	38.58	38.98	25.54	13.78	7.09	51.65	59.49	66.26	23.23	16.97	31.50	5.61	4.76	1.42x0.79-6.69L	20.87	62.75	44-1.89	36-1 3/4"x8un	F35	705:1	
56	106.06	39.37	40.16	25.54	13.78	7.09	53.27	62.01	68.74	23.23	16.97	31.50	5.51	4.88	1.42x0.79-6.69L	20.87	65.0	44-1.89	40-1 3/4"x8un	F35	705:1	
58	108.63	40.75	41.34	25.54	13.78	7.09	55.28	64.02	70.98	23.23	16.97	31.50	5.91	5.08	1.57x0.87-6.69L	21.65	67.25	44-1.89	40-1 3/4"x8un	F35	705:1	
60	111.58	41.73	41.73	25.54	13.78	7.09	57.24	65.98	72.99	23.23	16.97	31.50	5.91	5.20	1.57x0.87-6.69L	21.65	69.25	44-1.89	44-1 3/4"x8un	F35	705:1	8038



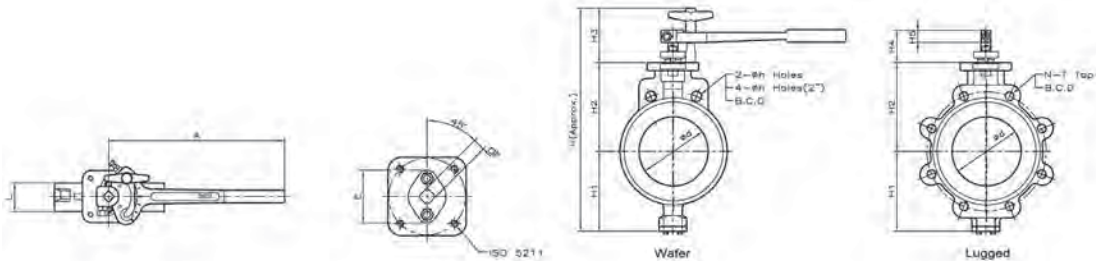
• Flange Rating; ANSI Class150
 • L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request)
 • T1 = Weight (With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	A in.	B in.	øW in.	øE in.	Key in.	L in.	ISO 5211	GEAR RATIO	T1 lbs.
64	121.97	46.46	46.06	29.45	16.54	8.27	61.02	25.50	20.0	31.50	7.09	1.77x0.98-7.87L	23.62	F48	788:1	
66	124.72	48.03	47.24	29.45	16.54	8.27	62.99	25.50	20.0	31.50	7.09	1.77x0.98-7.87L	23.62	F48	788:1	
72	131.02	51.18	50.39	29.45	16.54	8.27	68.90	25.50	20.0	31.50	7.09	1.77x0.98-7.87L	26.38	F48	788:1	

HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 300 (PN25 / PN40)

Wafer and Lugged - ML (Multi-position Locking Lever) 2"-6"



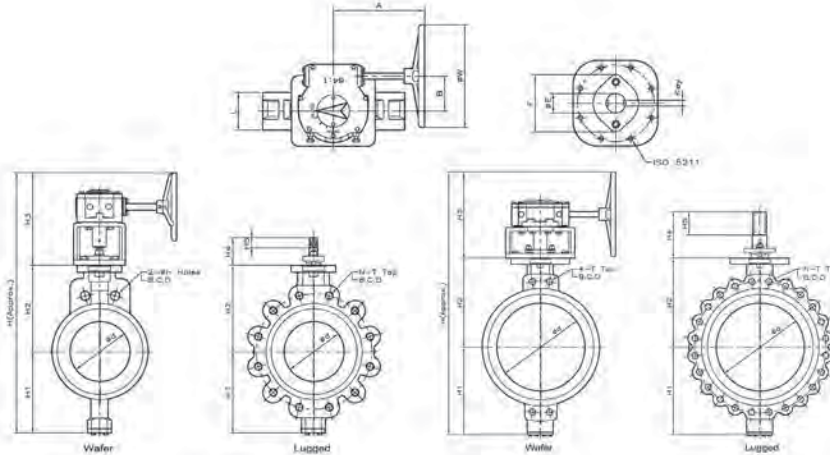
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	ød In.	A In.	E In.	ØF In.	L In.	B.C.D In.	øh In.	N-T	ISO 5211	T1 lbs.	T2 lbs.
2	12.36	3.94	4.13	4.29	2.56	0.91	1.93	11.81	2.76	0.43	1.69	5.0	0.75	8-5/8"x11unc	F10	20	20
2.5	13.19	4.06	4.84	4.29	2.56	0.91	2.52	11.81	2.76	0.47	1.81	5.88	0.88	8-3/4"x10unc	F10	18	26
3	13.94	4.53	5.12	4.29	2.56	0.91	2.91	11.81	2.76	0.47	1.88	6.62	0.88	8-3/4"x10unc	F10	20	26
4	15.07	4.80	5.98	4.29	2.56	0.91	3.74	11.81	2.76	0.47	2.12	7.88	0.88	8-3/4"x10unc	F10	24	37
5	17.48	6.38	6.77	4.33	2.56	0.95	4.65	13.78	2.76	0.63	2.24	9.25	0.88	8-3/4"x10unc	F10	31	51
6	19.72	7.48	7.91	4.33	2.56	0.95	5.47	13.78	2.76	0.63	2.31	10.62	0.88	12-3/4"x10unc	F10	46	75

Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	ød In.	A In.	E In.	ØF In.	L In.	B.C.D In.	øh In.	N-T	ISO 5211	T1 lbs.	T2 lbs.
2	10.63	3.94	4.13	2.56	2.56	0.91	1.93	11.81	2.76	0.43	1.69	5.0	0.75	8-5/8"x11unc	F10	20	20
2.5	11.46	4.06	4.84	2.56	2.56	0.91	2.52	11.81	2.76	0.47	1.81	5.88	0.88	8-3/4"x10unc	F10	18	26
3	12.20	4.53	5.12	2.56	2.56	0.91	2.91	11.81	2.76	0.47	1.88	6.62	0.88	8-3/4"x10unc	F10	20	26
4	13.35	4.80	5.98	2.56	2.56	0.91	3.74	11.81	2.76	0.47	2.12	7.88	0.88	8-3/4"x10unc	F10	24	37
5	15.71	6.38	6.77	2.56	2.56	0.95	4.65	13.78	2.76	0.63	2.24	9.25	0.88	8-3/4"x10unc	F10	31	51
6	17.95	7.48	7.91	2.56	2.56	0.95	5.47	13.78	2.76	0.63	2.31	10.62	0.88	12-3/4"x10unc	F10	46	75

HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 300 (PN25 / PN40)

Wafer and Lugged - Gear Operated (2"-24")

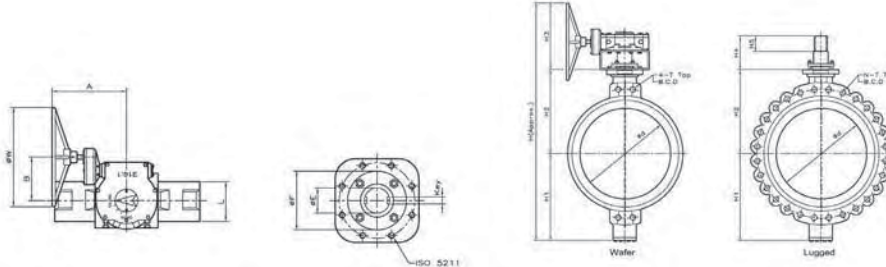


<ul style="list-style-type: none"> • Flange Rating: ANSI B16.5 Class300 • L = Face to Face dimensions according to API Std. 609 (EN 558/ ISO 5752/ BS 5155/ DIN 3202 on request) • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																				
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	ød In.	A In.	B In.	øW In.	E In.	øF In.	L In.	B.C.D In.	øh In.	T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
2	16.57	3.94	4.13	8.50	2.56	0.91	1.93	7.09	1.91	6.30	2.76	0.43	1.69	5.0	0.75	8-5/8"x11unc	F10	26 : 1	37	40
2.5	17.40	4.06	4.84	8.50	2.56	0.91	2.52	7.09	1.91	6.30	2.76	0.47	1.81	5.88	0.88	8-3/4"x10unc	F10	26 : 1	35	44
3	17.99	4.53	5.12	8.50	2.56	0.91	2.91	7.09	1.91	6.30	2.76	0.47	1.88	6.21	0.88	8-3/4"x10unc	F10	26 : 1	40	46
4	19.29	4.80	5.98	8.50	2.56	0.91	3.74	7.09	1.91	6.30	2.76	0.47	2.12	7.88	0.88	8-3/4"x10unc	F10	26 : 1	42	53
5	21.65	6.38	6.77	8.50	2.56	0.95	4.65	7.09	1.91	6.30	2.76	0.63	2.24	9.25	0.88	8-3/4"x10unc	F10	26 : 1	49	64
6	27.76	7.48	7.91	12.36	2.56	0.95	5.47	10.24	2.80	11.02	2.76	0.63	2.31	10.62	0.88	12-3/4"x10unc	F10	34 : 1	82	110
8	30.47	8.66	9.45	12.36	3.35	1.38	7.40	10.24	2.80	11.02	3.78	0.75	2.88	13.0	1.0	12-7/8"x9unc	F14	34 : 1	117	168
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	ød In.	A In.	B In.	øW In.	E In.	øF In.	L In.	B.C.D In.	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.	
10	32.13	9.41	9.28	12.36	3.54	1.57	9.25	10.24	2.80	11.02	3.78	0.87	3.25	15.25	16-1"x8unc	F14	34 : 1	159	198	
12	35.04	10.75	11.93	12.36	3.54	1.57	10.94	10.24	2.80	11.02	3.78	1.06	3.62	17.75	16-1 1/8"x8un	F14	34 : 1	201	273	
<ul style="list-style-type: none"> • Flange Rating: ANSI B16.5 Class300 • L = Face to Face dimensions according to API Std. 609 (EN 558 on request) • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																				
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	ød In.	A In.	B In.	øW In.	øE In.	F In.	Key In.	L In.	B.C.D In.	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
14	41.50	12.60	13.39	15.51	9.06	3.94	12.44	12.20	4.17	14.25	1.65	4.88	0.59x0.47-3.35L	4.62	20.25	20-1 1/8"x8un	F16	46 : 1	364	481
16	47.09	15.83	15.75	15.51	9.06	3.94	14.17	12.20	4.17	14.25	1.65	4.88	0.59x0.47-3.35L	5.25	22.50	20-1 1/4"x8un	F16	46 : 1	483	728
18	49.77	16.81	16.73	16.22	9.84	4.33	16.34	14.17	5.39	15.98	2.56	7.48	0.79x0.47-3.94L	5.88	24.75	24-1 1/4"x8un	F25	64 : 1	631	924
20	52.06	17.72	18.11	16.22	8.66	4.33	18.15	14.17	5.39	15.98	2.56	7.48	0.79x0.47-3.94L	6.25	27.00	24-1 1/4"x8un	F25	64 : 1	761	1010
24	61.29	21.65	20.59	19.06	9.06	4.72	21.54	15.75	7.17	23.62	3.15	7.48	0.87x0.55-4.33L	7.12	32.00	24-1 1/2"x8un	F25	78 : 1	1162	1444

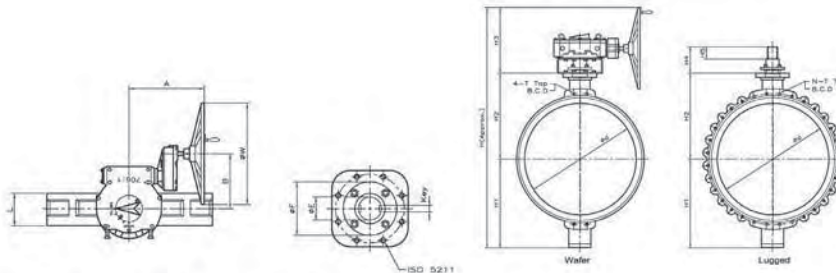
HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 300 (PN25 / PN40)

Wafer and Lugged - Gear Operated (28"-48")



<ul style="list-style-type: none"> • Flange Rating; ANSI B16.47 Series A Class300(MSS SP-44) • L = Face to Face dimensions according to Manufacturer Standard • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																				
Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	A in.	B in.	øW in.	øE in.	øF in.	Key in.	L in.	B.C.D in.	T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
28	66.89	23.03	23.62	20.24	10.27	4.72	25.59	17.72	10.35	23.62	3.15	7.87	1.20x0.63-4.53L	9.06	37.00	28-1 5/8"x8un	F25	316 : 1		
30	72.21	26.38	25.59	20.24	10.27	4.72	27.40	17.72	10.35	23.62	3.94	7.95	1.20x0.63-4.53L	9.45	39.25	28-1 3/4"x8un	F25	316 : 1		
32	73.59	26.77	26.58	20.24	10.27	4.72	29.53	17.72	10.35	23.62	3.94	7.95	1.20x0.63-4.53L	9.45	41.50	28-1 7/8"x8un	F25	316 : 1	3018	
36	81.07	30.71	30.12	20.24	10.27	4.72	33.47	17.72	10.35	23.62	3.94	10.38	1.20x0.63-4.53L	10.75	45.99	32-2"x8un	F30	316 : 1		4059

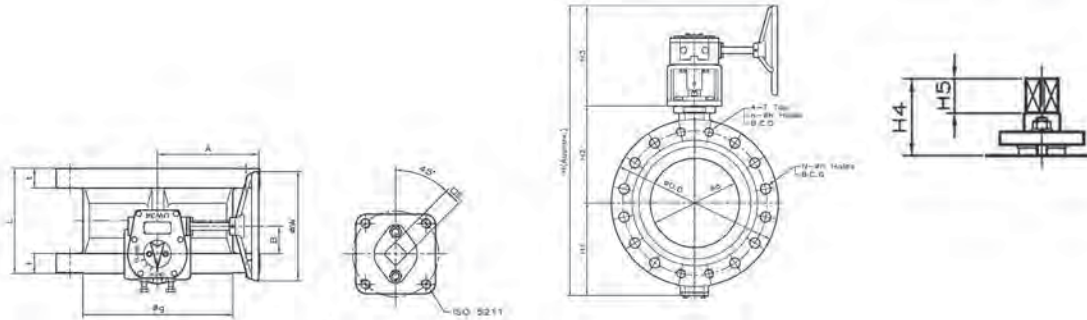


<ul style="list-style-type: none"> • Flange Rating; ANSI B16.47 Series A Class300(MSS SP-44) • L = Face to Face dimensions according to Manufacturer Standard • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																				
Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	A in.	B in.	øW in.	øE in.	øF in.	Key in.	L in.	B.C.D in.	T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
40	89.53	32.28	30.71	26.54	13.78	7.09	37.40	23.23	16.97	31.50	5.51	10.39	1.42x0.79-6.69L	11.81	45.50	32-1 5/8"x8un	F35	705 : 1		
42	91.50	33.47	31.50	26.54	13.78	7.09	39.53	23.23	16.97	31.50	5.91	10.39	1.42x0.79-6.69L	11.81	47.50	32-1 5/8"x8un	F35	705 : 1		
48	98.58	36.61	35.43	26.54	13.78	7.09	44.88	23.23	16.97	31.50	5.91	10.39	1.57x0.87-6.69L	13.78	54.00	32-1 7/8"x8un	F35	705 : 1		

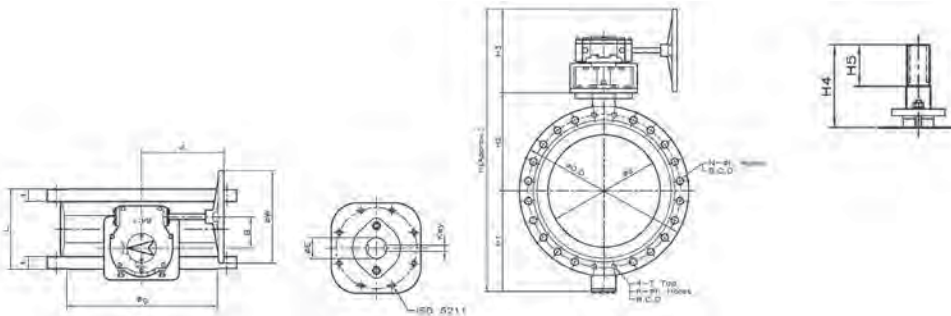
DOUBLE FLANGED HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 300 (PN25 / PN40)

Double Flanged - Gear Operated (4"-24")



Size	H	H1	H2	H3	H4	H5	ød	øg	øO.D	A	B	øW	øE	t	L	B.C.D	N-øh	n-T	ISO 5211	GEAR RATIO	T1 lbs.
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
4	21.10	5.83	6.77	8.50	2.56	0.91	3.86	6.19	10.0	7.09	1.91	6.30	0.63	1.26	7.48	7.88	8-0.88	4-3/4"x10unc	F10	26 : 1	66
5	23.46	7.40	7.56	8.50	2.56	0.95	4.65	7.31	10.98	7.09	1.91	6.30	0.63	1.38	7.87	9.25	8-0.88	4-3/4"x10unc	F10	26 : 1	123
6	27.76	7.48	7.91	12.36	2.56	0.95	5.47	8.50	12.52	10.24	2.80	11.02	0.63	1.44	8.27	10.62	12-0.88	8-3/4"x10unc	F10	34 : 1	176
8	29.88	8.66	9.45	12.36	3.35	1.38	7.40	10.62	15.0	10.24	2.80	11.02	0.87	1.62	9.06	13.0	12-1.0	8-7/8"x9unc	F14	34 : 1	247
10	32.13	9.41	9.29	12.36	3.54	1.57	9.25	12.75	17.52	10.24	2.80	11.02	1.06	1.88	9.84	15.25	16-1.12	12-1"x8unc	F14	34 : 1	344
12	35.71	11.42	11.93	12.36	3.54	1.57	10.94	15.0	20.51	10.24	2.80	11.02	1.18	2.88	10.63	17.75	16-1.25	12-1 1/8"x8unc	F14	34 : 1	432

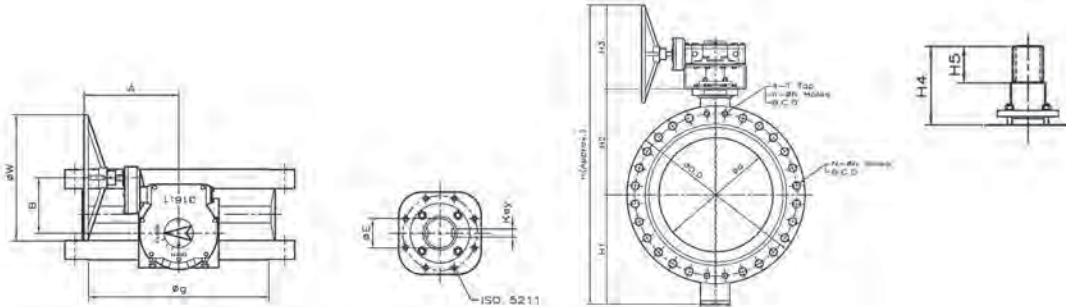


Size	H	H1	H2	H3	H4	H5	ød	øg	øO.D	A	B	øW	øE	t	Key	L	B.C.D	N-øh	n-T	ISO 5211	GEAR RATIO	T1 lbs.
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
14	41.50	12.60	13.39	15.51	9.06	3.94	12.44	16.25	22.98	12.20	4.17	14.25	1.65	2.12	0.59x0.47-3.35L	11.42	20.25	20-1.25	16-1 1/8"x8unc	F16	46 : 1	
16	47.09	15.83	15.75	15.51	9.06	3.94	14.17	18.50	25.51	12.20	4.17	14.25	1.65	2.25	0.59x0.47-3.35L	12.20	22.5	20-1.38	16-1 1/4"x8unc	F16	46 : 1	
18	49.77	16.81	16.73	16.22	9.84	4.33	16.34	21.00	27.99	14.17	5.39	15.98	2.56	2.38	0.78x0.47-3.94L	12.99	24.75	24-1.38	20-1 1/4"x8unc	F25	64 : 1	
20	52.06	17.72	18.11	16.22	8.66	4.33	18.15	23.00	30.51	14.17	5.39	15.98	2.56	2.50	0.79x0.47-3.94L	13.78	27.0	24-1.38	20-1 1/4"x8unc	F25	64 : 1	1278
24	61.29	21.65	20.59	19.06	9.06	4.72	21.54	27.25	35.98	15.75	7.17	23.62	3.15	2.75	0.87x0.55-4.33L	15.35	32.0	24-1.62	20-1 1/2"x8unc	F25	78 : 1	

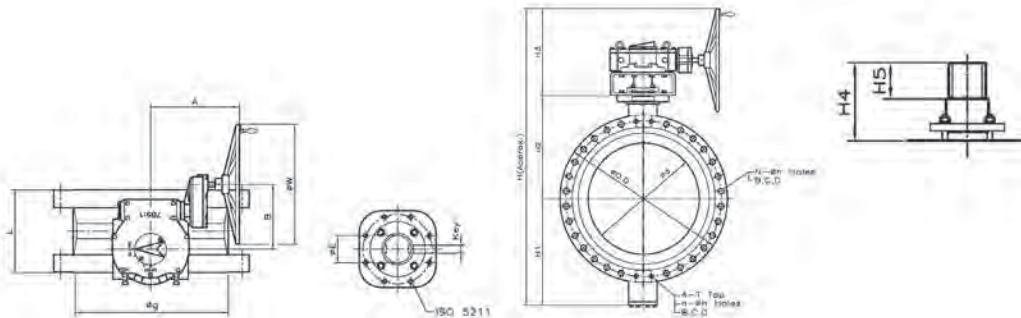
DOUBLE FLANGED HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 300 (PN25 / PN40)

Double Flanged - Gear Operated (28"-48")



<ul style="list-style-type: none"> • Flange Rating; ANSI B16.5 Class300(MSS SP-44) • L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request) • T1 = Weight (With Gear Box) 																						
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	d In.	g In.	O.D. In.	A In.	B In.	W In.	E In.	t In.	Key In.	L In.	B.C.D In.	N-φh In.	n-T	ISO 5211	GEAR RATIO	T1 lbs.
28	66.89	23.03	23.62	20.24	10.24	4.72	25.59	31.50	40.75	17.72	10.35	23.62	3.94	3.39	1.10x0.63-4.53L	16.93	37.0	28-1.75	24-1 5/8"x8un	F25	316:1	
30	72.20	26.38	25.99	20.24	10.24	4.72	27.66	33.74	42.99	17.72	10.35	23.62	3.94	3.62	1.10x0.63-4.53L	17.72	39.25	28-1.89	24-1 3/4"x8un	F25	316:1	
32	73.58	26.77	26.57	20.24	10.24	4.72	29.53	35.98	45.24	17.72	10.35	23.62	3.94	3.90	1.10x0.63-4.53L	18.50	41.50	28-2.01	24-1 7/8"x8un	F25	316:1	
36	81.06	30.71	30.12	20.24	10.24	4.72	33.46	40.24	50.0	17.72	10.35	23.62	3.94	4.13	1.10x0.63-4.53L	20.08	46.0	32-2.13	28-2"x8un	F30	316:1	

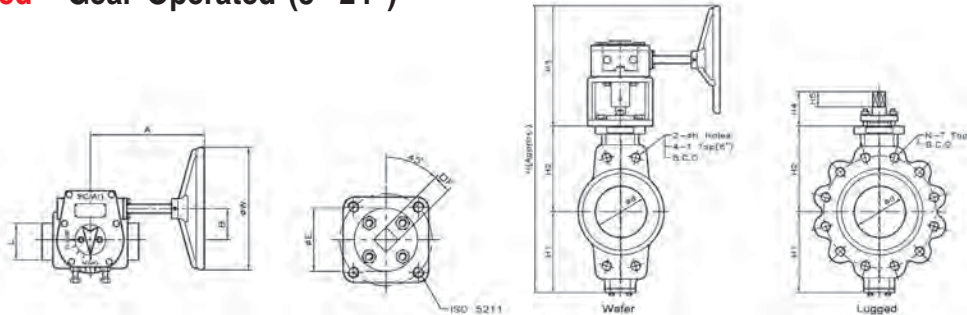


<ul style="list-style-type: none"> • Flange Rating; ANSI B16.5 Class300(MSS SP-44) • L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request) • T1 = Weight (With Gear Box) 																						
Size In.	H In.	H1 In.	H2 In.	H3 In.	H4 In.	H5 In.	d In.	g In.	O.D. In.	A In.	B In.	W In.	E In.	t In.	Key In.	L In.	B.C.D In.	N-φh In.	n-T	ISO 5211	GEAR RATIO	T1 lbs.
40	89.53	32.28	30.71	26.54	13.78	7.09	37.40	42.78	48.74	23.23	16.97	31.50	5.51	4.49	1.42x0.79-6.69L	21.65	46.50	32-1.75	28-1 5/8"x8un	F35	705:1	
42	91.50	33.46	31.50	26.54	13.78	7.09	39.53	44.76	50.75	23.23	16.97	31.50	5.91	4.69	1.42x0.79-6.69L	22.44	47.50	32-1.75	28-1 5/8"x8un	F35	705:1	
48	98.58	36.61	35.43	26.54	13.78	7.09	44.88	51.26	57.76	23.23	16.97	31.50	5.91	5.24	1.57x0.87-6.69L	24.80	54.00	32-1.99	28-1 7/8"x8un	F35	705:1	

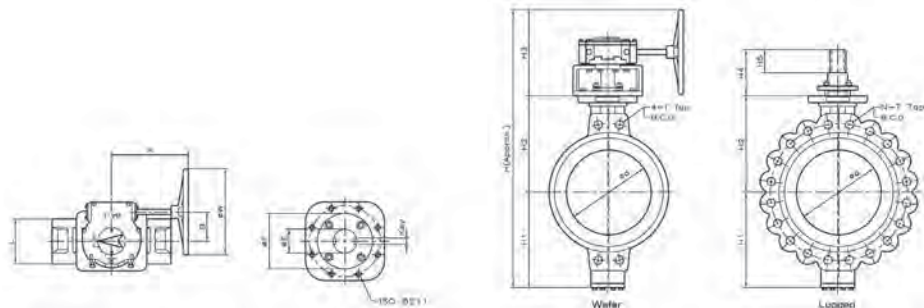
HIGHSEAL VALVES

GTD/MTD/FSD ANSI Class 600 (PN64 / PN100)

Wafer and Lugged - Gear Operated (3"-24")



<ul style="list-style-type: none"> • Flange Rating; ANSI B16.5 Class600 • L = Face to Face dimensions according to API Std. 609 • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																				
Size	H	H1	H2	H3	H4	H5	ød	A	B	øW	øE	øF	L	B.C.D	øh	N-T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.					
3	23.19	5.12	5.71	12.36	2.56	0.91	2.91	10.24	2.80	11.02	2.64	0.47	2.12	6.62	0.88	8-3/4"x10unc	F10	34 : 1	49	71
4	25.16	6.10	6.69	12.36	3.35	1.38	3.54	10.24	2.80	11.02	3.78	0.75	2.50	8.50	1.0	8-7/8"x10unc	F14	34 : 1	84	97
6	29.41	8.27	8.78	12.36	3.54	1.57	5.12	10.24	2.80	11.02	3.78	1.06	3.08	11.50	-	12-1"x8unc	F14	34 : 1	123	154

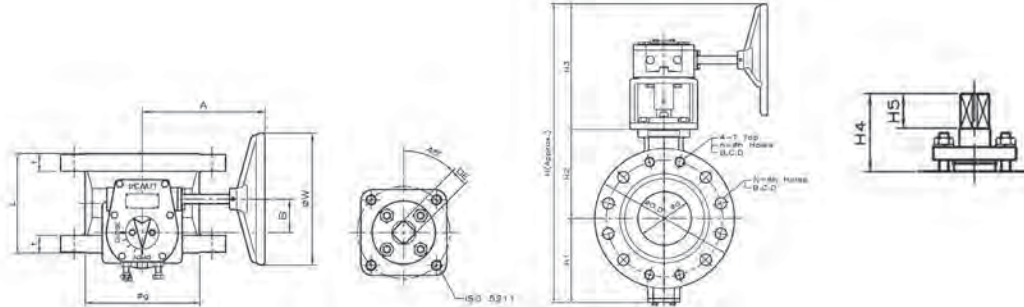


<ul style="list-style-type: none"> • Flange Rating; ANSI B16.5 Class600 • L = Face to Face dimensions according to API Std. 609 • T1 = Weight of Wafer Type(With Gear Box) • T2 = Weight of Lugged Type(With Gear Box) 																				
Size	H	H1	H2	H3	H4	H5	ød	A	B	øW	øE	øF	Key	L	B.C.D	T	ISO 5211	GEAR RATIO	T1 lbs.	T2 lbs.
in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.					
8	35.98	9.84	10.63	15.51	9.06	3.94	6.81	14.17	4.17	14.25	1.65	4.80	0.59x0.47-3.35L	4.0	13.75	12-1 1/8"x8un	F15	46 : 1	247	298
10	39.72	11.61	12.60	15.51	9.06	3.94	8.66	14.17	4.17	14.25	1.65	4.88	0.59x0.47-3.35L	4.62	17.00	16-1 1/4"x8un	F15	46 : 1	324	425
12	43.58	12.80	14.17	16.61	4.92	2.36	10.59	14.17	5.39	15.98	2.17	5.51	0.59x0.47-2.17L	5.50	19.25	20-1 1/4"x8un	F25	64 : 1	494	650
14	46.42	14.77	15.43	16.22	9.84	-	12.36	14.17	5.39	15.98	2.56	5.98	0.79x0.47-3.94L	6.12	20.75	20-1 3/8"x8un	F25	64 : 1	573	734
16	48.94	16.10	16.61	16.22	9.84	4.33	14.02	14.17	5.39	15.98	2.56	6.85	0.79x0.47-3.94L	7.0	23.75	20-1 1/2"x8un	F25	64 : 1	752	1008
18	52.24	17.91	18.11	16.22	9.84	4.33	15.91	14.17	5.39	15.98	2.56	7.48	0.79x0.47-3.94L	7.88	25.75	20-1 5/8"x8un	F25	64 : 1	937	1312
20	58.03	19.29	19.69	19.06	8.66	4.33	17.28	15.75	7.17	23.63	3.15	8.03	0.87x0.55-3.54L	8.50	28.50	24-1 5/8"x8un	F25	78 : 1	1149	1594
24	66.11	23.23	22.64	20.24	10.24	4.72	21.42	15.75	7.17	23.63	3.15	8.90	0.87x0.55-4.33L	9.13	33.0	24-1 7/8"x8un	F30	78 : 1	1627	2100

DOUBLE FLANGED HIGHSEAL VALVES

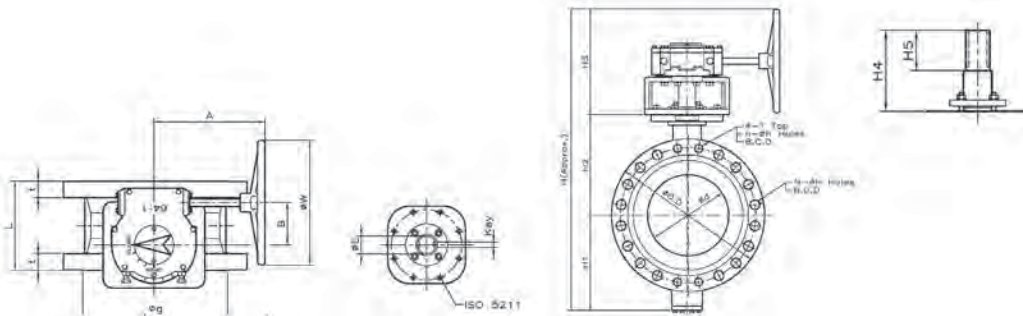
GTD/MTD/FSD ANSI Class 600 (PN64 / PN100)

Double Flanged - Gear Operated (4"-24")



- Flange Rating; ANSI B16.5 Class600
- L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request)
- T1 = Weight (With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	øg in.	øO.D in.	A in.	B in.	øW in.	øE in.	t in.	L in.	B.C.D in.	N-øh in.	n-T	ISO 5211	GEAR RATIO	T1 lbs.
4	25.16	6.10	6.69	12.36	3.35	1.57	3.54	6.19	10.75	10.24	2.80	11.02	0.75	1.50	7.48	8.50	6-1.00	4-7/8"x10unc	F14	34 : 1	
6	29.41	8.57	8.78	12.36	3.54	1.57	5.12	8.50	13.0	10.24	2.80	11.02	1.06	1.88	8.27	11.50	12-1.12	8-1"x8unc	F14	34 : 1	



- Flange Rating; ANSI B16.5 Class600
- L = Face to Face dimensions according to EN 558 (ISO 5752/ BS 5155 on request)
- T1 = Weight (With Gear Box)

Size in.	H in.	H1 in.	H2 in.	H3 in.	H4 in.	H5 in.	ød in.	øg in.	øO.D in.	A in.	B in.	øW in.	øE in.	t in.	L in.	Key in.	B.C.D in.	N-øh in.	n-T	ISO 5211	GEAR RATIO	T1 lbs.
8	35.98	9.84	10.63	15.51	9.06	3.94	6.81	10.62	15.50	12.20	4.17	14.25	1.65	2.19	9.08	0.59x0.47-3.35L	13.75	12-1.26	6-1 1/8"x8un	F16	46 : 1	
10	39.72	11.61	12.60	15.51	9.06	3.94	8.66	12.75	20.0	12.20	4.17	14.25	1.65	2.50	9.84	0.59x0.47-3.35L	17.00	16-1.38	12-1 1/4"x8un	F16	46 : 1	
12	43.58	12.80	14.17	16.61	4.92	2.38	10.58	15.0	22.0	14.17	5.39	15.98	2.17	2.82	10.63	0.58x0.47-2.17L	19.25	20-1.38	16-1 1/4"x8un	F25	64 : 1	
14	46.42	14.77	15.43	16.22	4.92	-	12.36	16.25	23.75	14.17	5.39	15.98	2.56	2.75	11.42	0.79x0.47-3.94L	20.75	20-1.50	16-1 3/8"x8un	F25	64 : 1	
16	48.94	16.10	16.61	16.22	9.84	4.33	14.02	18.50	27.0	14.17	5.39	15.98	2.56	3.0	12.20	0.79x0.47-3.94L	23.75	20-1.61	16-1 1/2"x8un	F25	64 : 1	
18	52.24	17.91	18.11	16.22	9.84	4.33	15.91	21.0	29.25	14.17	5.39	15.98	2.56	3.25	12.99	0.79x0.47-3.94L	25.75	20-1.75	16-1 5/8"x8un	F25	64 : 1	
20	58.22	19.29	19.69	20.24	8.66	4.33	17.48	23.0	32.0	15.75	7.17	23.63	3.15	3.50	13.78	0.87x0.55-3.54L	28.50	24-1.75	20-1 5/8"x8un	F25	78 : 1	
24	66.10	23.23	22.64	20.24	10.24	4.72	21.42	27.25	37.0	15.75	7.17	23.63	3.15	4.0	15.35	0.87x0.55-4.33L	33.00	24-2.01	20-1 7/8"x8un	F30	78 : 1	

BWD

BWD series has (2) metal seats, providing inherent firesafe characteristics, primarily used in District heating systems and Thermal plants where a "Maintenance free" valve is required.

The Butt weld design of the BWD is made of the highest grade of selected materials designed for a lengthy Life Cycle of reliable performance.

The BWD is available in both Flanged and Butt weld end connections suited to applications from Vacuum to High Pressure and both Low to High Temperature service conditions.



Flange Rating:
ANSI CL. 150/CL. 300

Nominal Diameter:
DN200 (8") to DN1500 (60")

Temperature Range:
Up to 650°C (1200°F)

Working Pressure:
Full Pressure Rating

Features:

- Butt weld Ends
- Double Metal seat design
- Bi-directional Tight Shut Off
- Low Operating Torque
- Excellent Control characteristics
- Anti blowout Shaft design
- Maintenance Free design

Applications:

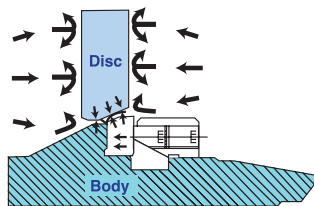
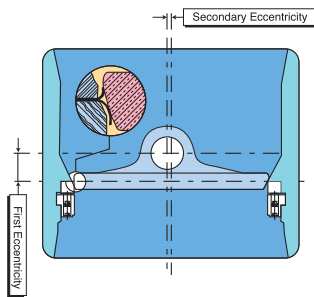
- District Heating Systems
- Oil and gas Industry
- Combined / Nuclear Power Plant

Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

Options:

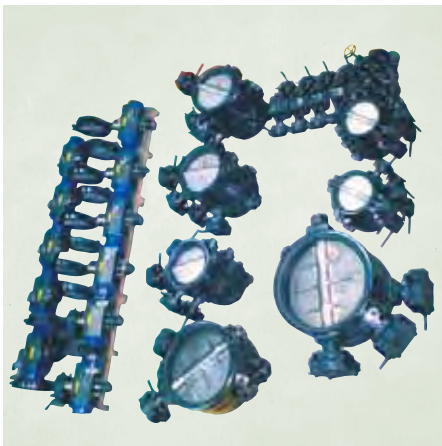
- Stellite on Disc c/w Inconel seat
- ENP coated Disc
- Manual operator Locking Device
- Bonnet / Stem Extension



GRS



GRS design is an Elastomer seated Butterfly valve used for demanding process conditions requiring positive shut-off and effective flow control.

**Flange Rating:**

ANSI CL. 150/ PN 10

Nominal Diameter:

DN40 (1.5") to DN1500 (60")

Temperature Range:

-20°C (-4°F) Up to 120°C (250°F)

Working Pressure:

Max. 10 Bar

Features:

- Elastomer Lined Body Seat design
- Bi-directional bubble-tight sealing.
- Low Operating Torque
- Excellent Control characteristics
- Anti blowout Shaft design
- Easy Maintenance design

Applications:

- General / Petro-chemical
- Oil Refinery / Production
- Steel & Iron Mills
- Shipbuilding
- Water Treatment
- Seawater

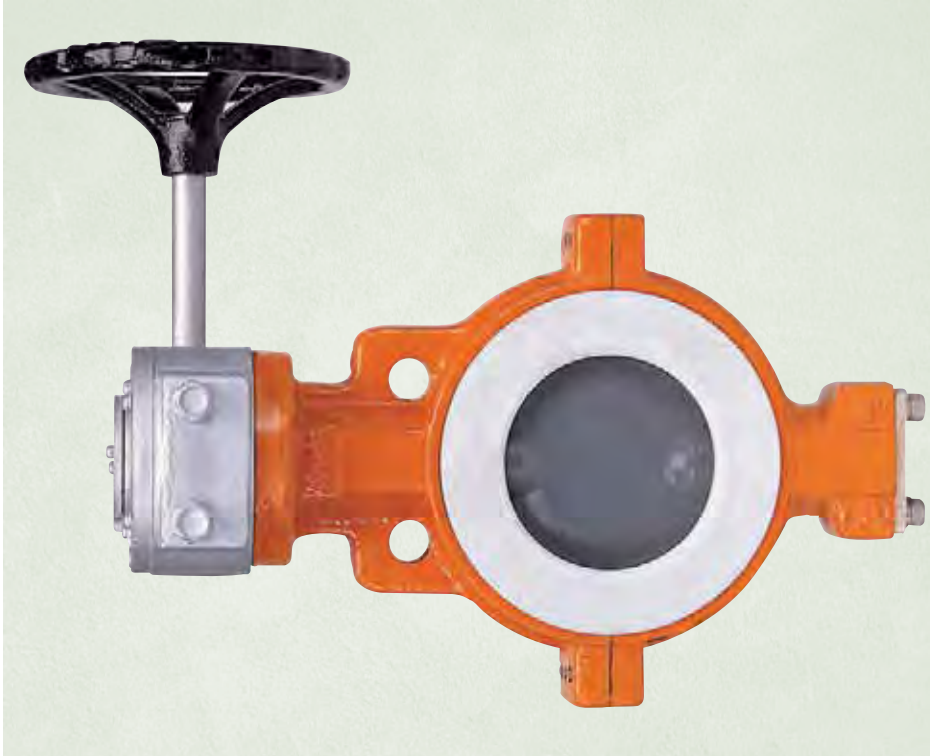
Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

Options:

- Teflon V-Packing
- Anti-static device
- Stem Extension
- Monel / Al-Bronze Body & Disc

GTS



GTS is designed for sustainable anti-corrosive chemical applications consisting of a two-piece split body and one-piece disc-stem that are completely Teflon lined.



Flange Rating:
ANSI CL. 150/ PN 10

Nominal Diameter:
DN50 (2") to DN300 (12")

Temperature Range:
-40°C (-40°F) to 175°C (350°F)

Working Pressure:
Max. 6 Bar

Features:

- Virgin TFE Liner
- One piece PFA encapsulated Disc-Stem
- Silicon Backup Ring
- Low Operating Torque
- Bi-directional Seating
- Double Structured Stem packing

Applications:

- General / Petrochemical
- Pulp & Paper
- Food & Beverage
- Steel & Iron Mills
- Sugar Refining
- Sewage

Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

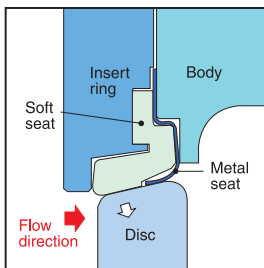
Options:

- Anti-static device
- Plain non-coated Disc
- Manual operator Locking Device
- Mirror Polished Disc

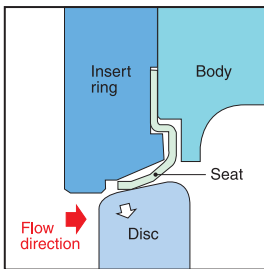
GFB

GFB, double flanged Butterfly valve, has an eccentric structure enabling smooth operation and tight shut-off at many conditions.

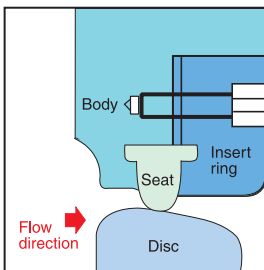
Rubber lining is applicable to the inner body for anti-corrosion duty to prevent rust and corrosion of the body. The inner body lining is available in a Teflon or metal seated design.



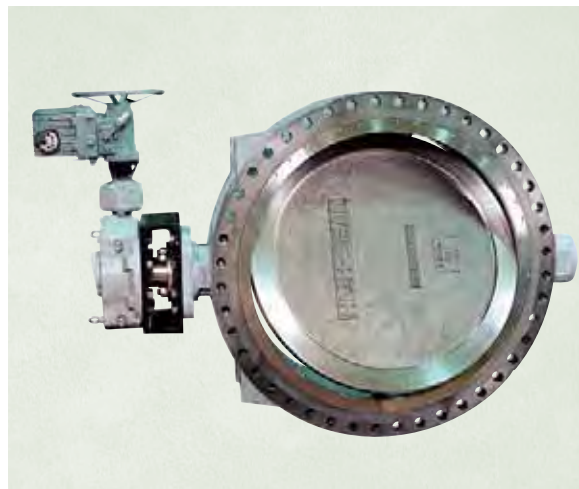
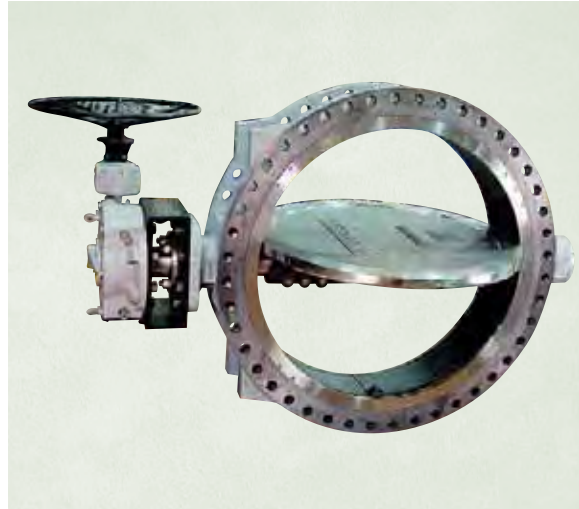
Teflon Seat



Metal Seat



Rubber Seat



Flange Rating:

ANSI CL. 150/CL. 300
AWWA C504

Nominal Diameter:

DN150 (6") to DN2250 (90")

Temperature Range:

- Rubber Seat: Up to 120°C (250°F)
- Teflon Seat: Up to 250°C (480°F)
- Metal Seat: Up to 650°C (1200°F)

Working Pressure:

Full Pressure Rating

Features:

- Flanged Ends design
- Three Individual Seat Designs
- Anti-blowout Shaft design
- Low Operating Torque
- Facile Maintenance

Applications:

- General & Petrochemical
- Refinery Production
- Steel & Iron Mills
- Oil Production (On/Off Shore)
- Waterworks / Sewage
- Shipbuilding
- Power Plant
- Seawater

Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

Options:

- Anti-static Device
- Internal rubber Liner
- Manual operator Locking Device
- Stem Extension
- Special Materials as per applications

Score-HIGHSEAL

HIGHSEAL's modernized facilities have the latest precision machines, measuring and testing facilities with a complete R&D section of production engineering.

The highly qualified staff using programmed machining centers provide accurate consistency and High quality production standards.

Quality Assurance and Testing



Low Temperature Helium Test



Test Stand



Function Test



Request for Quotation

When requesting a quotation please fill out the information as completely as possible with your request.

Design Specification: (To be completed by Sales/Engineering)

****Valve Design & Features noted in Bold Italic are Standard Inventory Items**

Distributor/Customer Name: _____

Contact Info: Email: _____ Phone: _____ Fax: _____

Sales Order No. _____ Item No. _____ Customer P.O. _____ Tag No. _____

Quantity: _____ Size: _____ ANSI Class: _____ Model #: _____

Design Model: *GTD*** *FSD*** MTD **Other:** _____

Face to Face: *API-609Cat.B*** ISO 5752 **Other:** _____

Body Design: *Wafer*** *Lugged*** Flanged Butt-weld **Other:** _____

Flange Drilling: *ANSI B16.5*** ANSI B16.47 Series A ANSI B16.47 Series B **Other:** _____

Operating Pressure: _____ **Design Press:** _____

Oper. Temperature: _____ **Design Temp:** _____

Oper. Differential Press.: _____ **Design Differential Press:** _____

Shutoff: _____ **Service:** On/Off Control/Modulating **Other:** _____

Flow Rates: Normal: _____ Max: _____ Min: _____

Flow Media: _____

Composition: _____

Phase: Gas Liquid Slurry **Specific Gravity:** _____ **Density:** _____

Valve Materials:

Body: *A216 GR.WCB*** *A351CF8M*** Alum.Brz.B148 **Other:** _____

Disc: *A351CF8M*** Monel Alum.Brz.B148 **Other:** _____

Shaft: *A276Type 316*** *17-4PH*** **Other:** _____

Seat: *RTFE*** PTFE *RTFE/316*** **Other:** _____

Bearing: *RPTFE/316*** 304SS *316SS*** **Other:** _____

Packing: *Graphite*** PTFE **Other:** _____

Additional Features:

D- Degreased for Oxygen service **N-** NACE MR0175 2002 (Wetted components)

P- Special Painting or Coatings **X-** Other Special features **Other:** _____

Manual Operators:

ML- *Multi-position Locking Lever*** **LL-** 10 Position Latch-Lock Lever

A- Actuator **B-** Bare stem **G-** *Manual Gear Operator c/w Hand-wheel**(8" & up)*

Inspection and Testing:

MPI LPI UT Radiography

Area: Casting Machined Surfaces Fabrication and Weld Repairs Radiography

Seat Overlay Critical Areas

Test Method: _____ Acceptance Criteria: _____

Actuator Information: Pneumatic Electric Hydraulic

Fail position: Double Acting Spring Return Fail Close Fail Open Fail Last Position

Size Actuator based on: _____ PSIG **Supply Air Avail:** _____ PSIG

Input Signal: 3-15PSI _____ 4-20MA _____ **Explosion Proof:** _____

Electric: Power Source (Volts) _____ **Phase:** _____ **Frequency (HZ):** _____

Temperature Conditions: STD _____ Low-Temp. _____ High Temp. _____

Positioner: _____ **Limit switches:** _____ **Solenoid:** _____

Other Accessories: _____

Service Conditions: _____



Score Energy Products Inc.

9821 - 41 Avenue, Edmonton, Alberta T6E 0A2

Phone: (780) 466-6782

Fax: (780) 465-6979

Email: sales@scorevalves.com

Website: www.scorevalves.com



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