

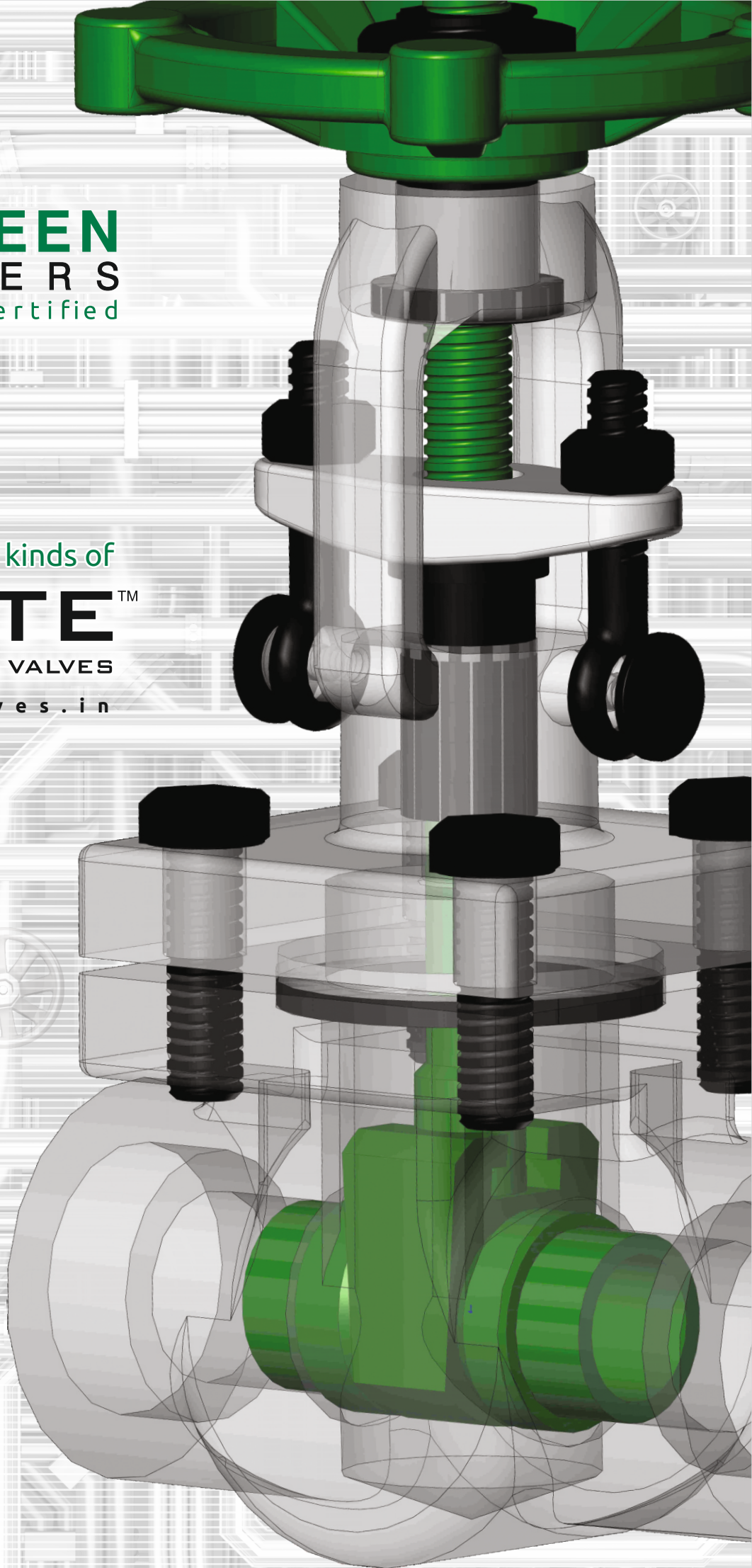
EVERGREEN ENGINEERS

ISO 9001:2015 Certified

Manufacturers of all kinds of

 **ELITE**™
INDUSTRIAL VALVES

www.elitevalves.in



About Us

We, EVERGREEN ENGINEERS had our humble beginning in 2012 with manufacturing of forged industrial valves.

Initially located in a small workshop in Rakhial (Ahmedabad, India), the business grew rapidly and in 2016, we expanded our manufacturing setup in Sanand (Ahmedabad, India). Since then, we have come a long way in manufacturing wide range of Industrial valves for applications in marine, oil & gas, chemical, petrochemical, fertilizers, nuclear – atomic power plants, paper industry, refineries and general industry.

We are committed to provide quality, competitively priced products backed by a prompt, efficient and personal service. These are the business values that have helped us to sustain ourselves independently in flow control technology.

We are Manufacturer of “ELITE™” brand Gate valves, Globe valves, Check valves, Strainer, Ball valves, Butterfly valves, Wafer type Check Valves, Dual Plate check valves, etc. in all sizes and classes with any material of construction as per customer’s requirement adhering to National and International Standards such as API 600, API 602, BS 1873, BS 1868, BS 5351, BS 5352, etc.

Our activities include designing, material procurement, manufacturing, assembly and testing of valves. Our Unit is managed by a team of qualified personnel with extensive experience in the field. We, at EVERGREEN ENGINEERS gear ourselves as per our customer’s exact requirements and supply well within time, as Marginal stocks of standard sizes and ranges of valves are available with us. We are today recognized by our esteemed customers as the most reliable single point source for their versatile requirement of Valves. Their sustained support bears ample testimony for the confidence reposed in us.

Quality Policy

We, EVERGREEN ENGINEERS are committed to continuously achieve growth through customer’s satisfaction and quality management system as per international standards adhering to legal requirements. We aim to share a long lasting & growing relationship with our customer.

We believe in developing and improving our product continuously in order to be competent with global standards at competent prices.

In order to meet the improving quality requirements, we comply with ISO 9001:2015 for the benefit of our customer.

Customer Satisfaction by...!

Maintaining high standard of quality consistent with customer requirements.

Complying with codes, standards, customer specifications, statutory and regulatory requirements as applicable to our products.

True and fast Communication.

On time delivery and competitive pricing.

Continually improving the effectiveness of Quality Management System to add value to our products.



Size : 2" (50 mm) to 48" (1200 mm)
 Class : 150# / 300# / 600# / 900# / 1500#
 End : Flanged End to ASME B16.5 RF
 Butt Weld Ends to ASME B16.25
 Design / Mfg. Std. : API 600 / API 603/ BS 1414
 Face to face : ASME B16.10
 Inspection & Testing Std. : API 598
 *Special Material & Higher Size/Class Valves also available on request.

Cast Steel Gate Valve

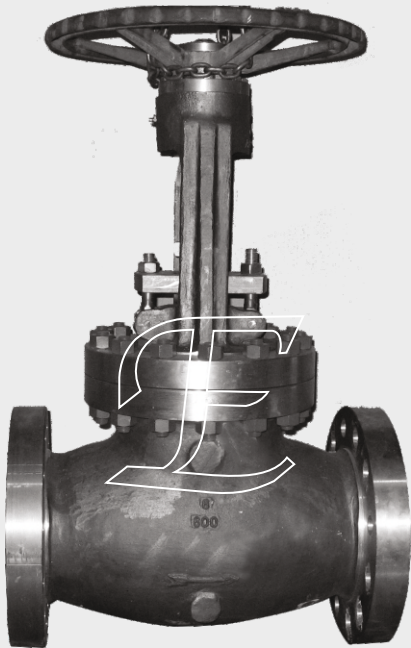
150# / 300# / 600# / 900# / 1500#

TEST PRESSURE				
TESTING	HYDRAULIC			PNEUMATIC
	150#	300#	600#	—
BODY	425 PSIG	1100 PSIG	2175 PSIG	—
BACK SEAT	300PSIG	800 PSIG	1600 PSIG	—
SEAT	300PSIG	800 PSIG	1600 PSIG	80 PSIG

@ 150#													
SIZE	PORT	L	L1	H	H1	ØWH	ØD	b	Øg	f	Øj	N	K:Pcd
50	51	178	216	302	360	200	150	16.3	92.1	2.0	19.1	4	120.7
65	64	190	241	355	425	200	180	17.9	104.8	2.0	19.1	4	139.7
80	76	203	281	390	470	200	190	19.5	127.0	2.0	19.1	4	152.4
100	102	229	305	468	577	250	230	24.3	157.2	2.0	19.1	8	190.5
125	127	254	381	550	685	250	255	24.3	185.7	2.0	22.2	8	215.9
150	152	267	403	630	790	300	280	25.9	215.9	2.0	22.2	8	241.3
200	203	292	419	800	1013	350	345	29.0	269.9	2.0	22.2	8	298.5
250	254	330	457	950	1215	400	405	30.6	323.8	2.0	25.4	12	362.0
300	305	356	502	1110	1425	400	485	32.2	381.0	2.0	25.4	12	431.8
350	337	381	572	1140	1500	550	535	35.4	412.8	2.0	28.6	12	476.3
400	387	406	610	1365	1755	550	595	37.0	469.9	2.0	28.6	16	539.8
450	438	432	660	1540	2000	600	635	40.1	533.4	2.0	31.8	16	577.9
500	489	457	711	1690	2210	600	700	43.3	584.2	2.0	31.8	20	635.0
600	590	508	813	2100	2725	650	815	48.1	692.2	2.0	34.9	20	749.0

SIZE	PORT	L	ØD	b	Øg	F	Øj	N	K:Pcd.
650	650	559	785	41.8	711	2.0	22.2	36	744.5
700	700	610	835	45.0	762	2.0	22.2	40	795.3
750	750	610	885	45.0	813	2.0	22.2	44	846.1
900	900	711	1055	52.9	972	2.0	25.4	44	1009.6

Note :
 Flanged ends as per
 ASME B16.47
 series B, 26"
 and above valve



Size : 2" (50 mm) to 16" (400 mm)
 Class : 150# / 300# / 600# / 900# / 1500#
 End : Flanged End to ASME B16.5 RF
 Butt Weld Ends to AME B16.25
 Design : BS 1873
 Face to face : ASME B16.10
 Inspection & Testing Std. : API 598 / BSEN 12266 PI
 *Special Material & Higher Size/Class Valves also available on request.

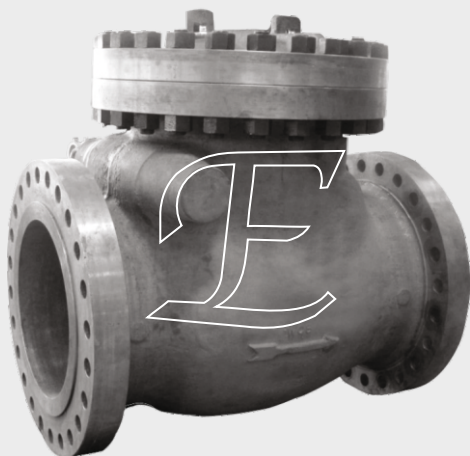
Cast Steel Globe Valve

150# / 300# / 600# / 900# / 1500#

TEST PRESSURE				
TESTING	HYDRAULIC			PNEUMATIC
	150#	300#	600#	—
BODY	425 PSIG	1100 PSIG	2175 PSIG	—
BACK SEAT	300PSIG	800 PSIG	1600 PSIG	—
SEAT	300PSIG	800 PSIG	1600 PSIG	80 PSIG

@ 150#													
SIZE	PORT	L	L1	H	H1	ØWh	ØD	b	Øg	f	Øj	N	K:PCD
50	51	203	203	270	290	200	150	16.3	92.1	2.0	19.1	4	120.7
65	64	216	216	298	320	250	180	17.9	104.8	2.0	19.1	4	139.7
80	76	241	241	318	343	250	190	19.5	127.0	2.0	19.1	4	152.4
100	102	292	292	378	410	300	230	24.3	157.2	2.0	19.1	8	190.5
125	127	356	356	390	430	350	255	24.3	185.7	2.0	22.2	8	215.9
150	152	406	406	435	480	400	280	25.9	215.9	2.0	22.2	8	241.3
200	203	495	495	523	582	500	345	29.0	269.9	2.0	22.2	8	298.5
250	254	622	622	627	700	500	405	30.6	323.8	2.0	25.4	12	362.0
300	305	698	698	740	825	600	485	32.2	381.0	2.0	25.4	12	431.8

SIZE	PORT	L	L1	ØD	b	Øg (RFD)	f	Øj	N	K:Pcd.
350	337	787	787	535	35.4	412.8	2.0	28.6	12	476.3
400	387	914	914	595	37.0	469.9	2.0	28.6	16	539.8



Size : 2" (50 mm) to 36" (900 mm)
 Class : 150# / 300# / 600# / 900# / 1500#
 End : Flanged End to ASME B16.5 RF
 Design : BS 1868 / API 6D
 Face to face : ASME B16.10 / API 6D
 Inspection & Testing Std. : API 6D / API 598 / BSEN 12266 PI
 *Special Material & Higher Size/Class Valves also available on request.

Cast Steel Swing Check Valve

150# / 300# / 600# / 900# / 1500#

TEST PRESSURE				
TESTING	HYDRAULIC			PNEUMATIC
	150#	300#	600#	
BODY	425 PSIG	1100 PSIG	2175 PSIG	-
SEAT	300PSIG	800 PSIG	1600 PSIG	80 PSIG

@ 150#											
SIZE	PORT	L	L1	H	ØD	b	Øg	f	ØJ	N	K:PCD
50	51	203	203	130	150	16.3	92.1	2.0	19.1	4	120.7
65	64	216	216	140	180	17.9	104.8	2.0	19.1	4	139.7
80	76	241	241	162	190	19.5	127.0	2.0	19.1	4	152.4
100	102	292	292	187	230	24.3	157.2	2.0	19.1	8	190.5
125	127	330	330	217	255	24.3	185.7	2.0	22.2	8	215.9
150	152	356	356	235	280	25.9	215.9	2.0	22.2	8	241.3
200	203	495	495	285	345	29.0	269.9	2.0	22.2	8	298.5
250	254	622	622	338	405	30.6	323.8	2.0	25.4	12	362.0
300	305	698	698	380	485	32.2	381.0	2.0	25.4	12	431.8
350	337	787	787	415	535	35.4	412.8	2.0	28.6	12	476.3
400	387	864	864	455	595	37.0	469.9	2.0	28.6	16	539.8
450	438	978	978	505	635	40.1	533.4	2.0	31.8	16	577.9
500	489	978	978	560	700	43.3	584.2	2.0	31.8	20	635.0
600	590	1295	1295	615	815	48.1	692.2	2.0	34.9	20	749.0

SIZE	PORT	L	ØD	b	Øg	F	Øj	N	K:Pcd.	Note : Flanged ends as per ASME B16.47 series B, 26" and above valve
650	650	1295	785	41.8	711	2.0	22.2	36	744.5	
700	700	1448	835	45.0	762	2.0	22.2	40	795.3	
750	750	1524	885	45.0	813	2.0	22.2	44	846.1	
900	900	1956	1055	52.9	972	2.0	25.4	44	1009.6	



Size : ½" (15 mm) to 2" (50 mm) - Threaded / Socket Weld End
 2" (50 mm) to 24" (600 mm) - Flanged End
 Class : 150# / 300# / 600# / 800# / 900# / PN16 / PN25 / PN40
 End : Flanged / Threaded / Socket Weld Ends
 Design : Mfg. Standard
 Features : Stainer Screens - Perforated + Wire mesh
 *Special Material & Higher Size also available on request.

"Y" Strainer

PN 16 / PN 25 / PN 40 / 150# / 300# / 800#

TEST PRESSURE, kg / sq. cm.				
TESTING	HYDRAULIC			
	PN 16	PN40	150#	300#
BODY	24	60	31	78

@ PN 40#												
SIZE	PORT	L	H	H1	ØWh	ØD	b	Øg	f	ØJ	N	K:PCD
50	51	230	-	-	200	165	20	102	3	18	4	125
65	64	290	-	-	250	185	22	122	3	18	8	145
80	76	310	-	-	250	200	24	138	3	18	8	160
100	102	350	-	-	350	235	24	162	3	22	8	190
150	152	480	-	-	400	300	28	218	3	26	8	250
200	203	600	-	-	480	375	34	285	3	30	12	320
250	254	730	-	-	480	450	38	345	3	33	12	385
300	305	850	-	-	600	515	42	410	3	33	16	450
350	337	980	-	-	-	580	54	465	4	36	16	510
400	387	1100	-	-	-	660	60	535	4	39	16	585
450	438	1200	-	-	-	685	66	560	4	39	20	610
500	489	1250	-	-	-	755	72	615	4	42	20	670
600	590	1450	-	-	-	890	84	735	5	48	20	795



(A) Center Disc Butterfly Valve

Size : 2" (50 mm) to 36" (900 mm)
 Class : PN 16 upto 12" and above PN 10
 End : Wafer Type / Lug Type / Flange Ends
 Design : API-609 - Category : A
 Seat : Moulded Seat as NBR / EPDM / SILICON / VITON / PTFE
 Operation : Lever / Gear / Actuator / Electric Operated
 *Special Material & Higher Size also available on request

(B) Offset Disc Butterfly Valve

Size : 2" (50 mm) to 36" (900 mm)
 Class : PN 10 / PN 16
 End : Wafer Type / Lug Type / Flange Ends
 Design : API-609 - Category : B / AWWA C504
 Seat : Moulded Seat Lip Seal Design as NBR / EPDM / SILICON / VITON etc
 Operation : Lever / Gear / Actuator / Electric Operated

Center Disc Design Butterfly Valve

VALVE DIMENSION										TOP PLATE DRILLING		
SIZE	A	B	C	D	F	G	H	KEY WAY	Q	PCD	N	N
40	40	77	85	34	31.7	12.7	8	-	22	70	4	9
50	50	95	100	43	31.7	14.2	9.5	-	26	70	4	9
65	65	117	115	46	31.7	14.2	9.5	-	47	70	4	9
80	75	126	125	46	31.7	14.2	9.5	-	60	70	4	9
100	100	160	150	53	31.7	15.9	11	-	85	70	4	9
125	125	182	155	56	31.7	15.9	11	-	113	70	4	9
150	152	210	170	56	31.7	19	12.7	-	144	102	4	11
200	203	265	205	61	31.7	22.2	18.5	-	195	102	4	11
250	252	325	255	69	50	28.6	-	6.3X6.3	245	125	4	11
300	300	366	275	78	50	28.6	-	6.3X6.3	313	125	4	11
350	337	438	305	78	65	35	-	7.9X7.9	330	140	4	18
400	387	490	335	102	65	41.2	-	9.5X9.5	376	140	4	18
450	438	539	368	114	65	47.6	-	12.7X9.5	425	140	4	18
500	489	595	400	127	65	47.6	-	12.7X9.5	475	140	4	18
600	587	696	495	154	75	47.6	-	12.7X9.5	570	165	4	18

API 6D Short Pattern Single Plate Wafer Check Valve



Parameter : Compliance to
 Design : API 6D / API 594
 Pressure Temperature Rating : ASME B 16.34
 Face to Face / End to End : API 6D
 End Connection Dimensions : Wafer to suit PN 20 (ASME 150 Class), PN 50 (ASME 300 Class), PN 100 (ASME 600 Class)
 Inspection & Testing : ISO 5208 / API 598

ISO PN 20 / ASME 150 CLASS

	50	65	80	100	150	200	250	300	350	400	450	500
A	30	38	52	72	114	157	195	230	270	310	360	406
B	19	19	19	19	29	29	38	44	51	60	64	
C	104.5	120	133	171	219	276	337	406	446	508	542	598

API 6D Long Pattern Dual Plate Check Valve

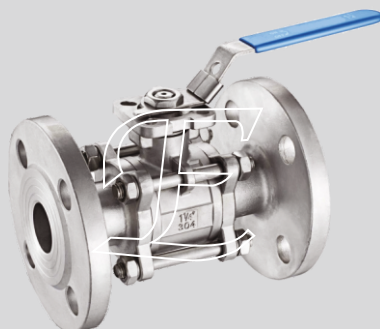


Parameter : Compliance to
 Design : API 6D / ISO 14313/ API 594
 Pressure Temperature Rating : ASME B 16.34
 Face to Face / End to End : API 6D
 End Connection Dimensions : Wafer to suit PN 20 (ASME 150 Class), PN 50 (ASME 300 Class), PN 100 (ASME 600 Class)
 Inspection & Testing : ISO 5208 / API 598 / BS 6755 PART 1

ISO PN 20 / ASME 150 CLASS

	50	65	80	100	150	200	250	300	350	400	450	500
A	101	120	133	171	218	276	336	406	447	511	546	603
B	60	67	67	73	98	127	146	181	184	191	203	219
C	60	73	89	114	168	219	273	324	356	406	457	508

Ball Valve 150# / 300# / 600# / 800#



@ 150#							
SIZE	A	B	C	D	E	F	G
15	108	35	11	89	4	60	16
20	118	43	13	98	4	70	16
25	127	51	14	108	4	79	16
40	165	73	14	127	4	98	16
50	178	92	16	152	4	121	19
65	190	105	17	178	4	140	19
80	203	127	19	190	4	152	19
100	229	157	24	229	8	190	19
125	254	186	24	254	8	216	22
150	267	216	25	279	8	241	22
200	292	270	29	343	8	298	22

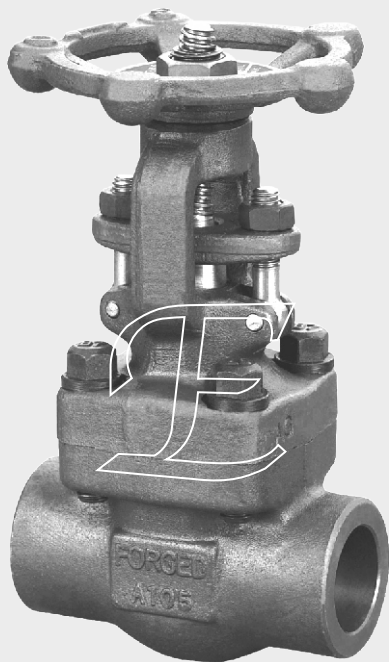
@ 300#							
SIZE	A	B	C	D	E	F	G
40	191	73	21	156	4	114	22
50	216	92	22	165	8	127	22
65	241	105	25	190	8	149	22
80	282	127	29	209	8	168	22
100	305	157	32	254	8	200	22
125	381	186	35	279	8	235	22
150	403	216	37	318	12	270	22
200	419	270	41	381	12	330	25

Engineering Options :

- (1) Special materials on request
- (2) Remote operation on request
- (3) Solid Ball on request
- (4) Valve design provides for interchangeability of items
- (5) Glass-filled Teflon Seat on request
- (6) sealing materials can be given in grafoil

* All Dimensions are in m.m.

SERVICE RATING				
Class	Working Pressure	Hyd. Test Pressure		
		Body	Seat	Temp.
150	150 PSI	425PSI	300PSI	500°F
300	300PSI	1100PSI	750PSI	850°F



Size : 1/4" (6 mm) to 2 1/2" (65 mm)
 Class : 800# / 1500# / 2500#
 End : Threaded / Socket Weld / Butt Weld / Flanged End
 Design : API 602/BS 5352 / B 16.11 / B 16.25
 Features : Bolted / Welded Bonnet

*Special Material & Higher Size also available on request.

Forged Steel Gate Valve

800# / 1500# / 2500#

TEST PRESSURE				
TESTING	HYDRAULIC			PNEUMATIC
	800#	1500#	2500#	
BODY	3000 PSIG	5400PSIG	9060 PSIG	-
BACK SEAT	2200PSIG	4075PSIG	6800PSIG	-
SEAT	2200 PSIG	4075 PSIG	6800 PSIG	80 PSIG

@ 800#									
SIZE	L	H	H1	ØWH	SCR. ENDS		SW. ENDS		
					ØC	E	ØD		F(Min.)
15	90	152	165	90	1/2"	13.56	Max.	Min.	F(Min.)
20	93	161	176	90	3/4"	13.87	22.22	21.72	9.65
25	108	175	198	90	1"	17.35	27.56	27.05	12.7
40	128	240	278	145	1.1/2"	18.38	34.29	33.78	12.7
50	145	255	298	145	2"	19.23	49.15	48.64	12.7
65	180	280	330	200	2.1/2"	20.5	61.62	61.11	15.75

@ 1500#									
SIZE	L	H	H1	ØWH	SCR. ENDS		SW. ENDS		
					ØC	E	ØD		F(Min.)
15	93	161	176	90	1/2"	13.56	Max.	Min.	F(Min.)
20	108	175	198	90	3/4"	13.87	22.22	21.72	9.65
25	128	240	278	145	1"	17.35	27.56	27.05	12.7
40	145	255	298	145	1.1/2"	18.38	34.29	33.78	12.7
50	180	280	330	200	2"	19.23	49.15	48.64	12.7
							61.62	61.11	15.75



Size : 1/4" (6 mm) to 2 1/2" (65 mm)
 Class : 800# / 1500# / 2500#
 End : Threaded / Socket Weld / Butt Weld / Flanged End
 Design : API 602/BS 5352 / B 16.11 / B 16.25
 Features : Bolted / Welded Bonnet

*Special Material & Higher Size also available on request

Forged Steel Globe Valve

800# / 1500# / 2500#

TEST PRESSURE				
TESTING	HYDRAULIC			PNEUMATIC
	800#	1500#	2500#	
BODY	3000 PSIG	5400PSIG	9060 PSIG	-
BACK SEAT	2200PSIG	4075PSIG	6800PSIG	-
SEAT	2200 PSIG	4075 PSIG	6800 PSIG	80 PSIG

@ 800#									
SIZE	L	H	H1	ØWH	SCR. ENDS		SW. ENDS		
					ØC	E	ØD		F(Min.)
15	90	162	170	90	1/2"	13.56	Max.	Min.	F(Min.)
20	93	170	180	90	3/4"	13.87	22.22	21.72	9.65
25	108	190	202	90	1"	17.35	27.56	27.05	12.7
40	128	243	260	145	1.1/2"	18.38	34.29	33.78	12.7
50	145	255	272	145	2"	19.23	49.15	48.64	12.7
65	180	280	330	200	2.1/2"	20.5	61.62	61.11	15.75

@ 1500#									
SIZE	L	H	H1	ØWH	SCR. ENDS		SW. ENDS		
					ØC	E	ØD		F(Min.)
15	93	170	180	90	1/2"	13.56	Max.	Min.	F(Min.)
20	108	190	202	90	3/4"	13.87	22.22	21.72	9.65
25	128	243	260	145	1"	17.35	27.56	27.05	12.7
40	145	255	272	145	1.1/2"	18.38	34.29	33.78	12.7
50	180	280	330	200	2"	19.23	49.15	48.64	12.7
							61.62	61.11	15.75

Forged Steel Lift Check Valve 800# / 1500# / 2500#



Size : 1/4" (6 mm) to 2 1/2" (65 mm)
 Class : 800# / 1500# / 2500#
 End : Threaded / Socket Weld / Butt Weld / Flanged End
 Design : API 602/BS 5352 / B 16.11 / B 16.25
 Features : Bolted / Welded Bonnet
 *Special Material & Higher Size also available on request

TESTING	TEST PRESSURE			
	HYDRAULIC			PNEUMATIC
	800#	1500#	2500#	
BODY	3000 PSIG	5400PSIG	9060 PSIG	-
SEAT	2200 PSIG	4075 PSIG	6800 PSIG	80 PSIG

@ 800#							
SIZE	L	H	SCR. ENDS		SW. ENDS		
			ØC	E	ØD		F(Min.)
					Max.	Min.	
15	90	55	1/2"	13.56	22.22	21.72	9.65
20	93	60	3/4"	13.87	27.56	27.05	12.7
25	108	72	1"	17.35	34.29	33.78	12.7
40	128	95	1.1/2"	18.38	49.15	48.64	12.7
50	145	100	2"	19.23	61.62	61.11	15.75
60	180	130	2.5"	20.5	74.20	73.6	15.75

@ 1500#							
SIZE	L	H	SCR. ENDS		SW. ENDS		
			ØC	E	ØD		F(Min.)
					Max.	Min.	
15	93	60	1/2"	13.56	22.22	21.72	9.65
20	108	72	3/4"	13.87	27.56	27.05	12.7
25	128	95	1"	17.35	34.29	33.78	12.7
40	145	100	1.1/2"	18.38	49.15	48.64	12.75
50	180	130	2"	19.23	61.62	61.11	15.75



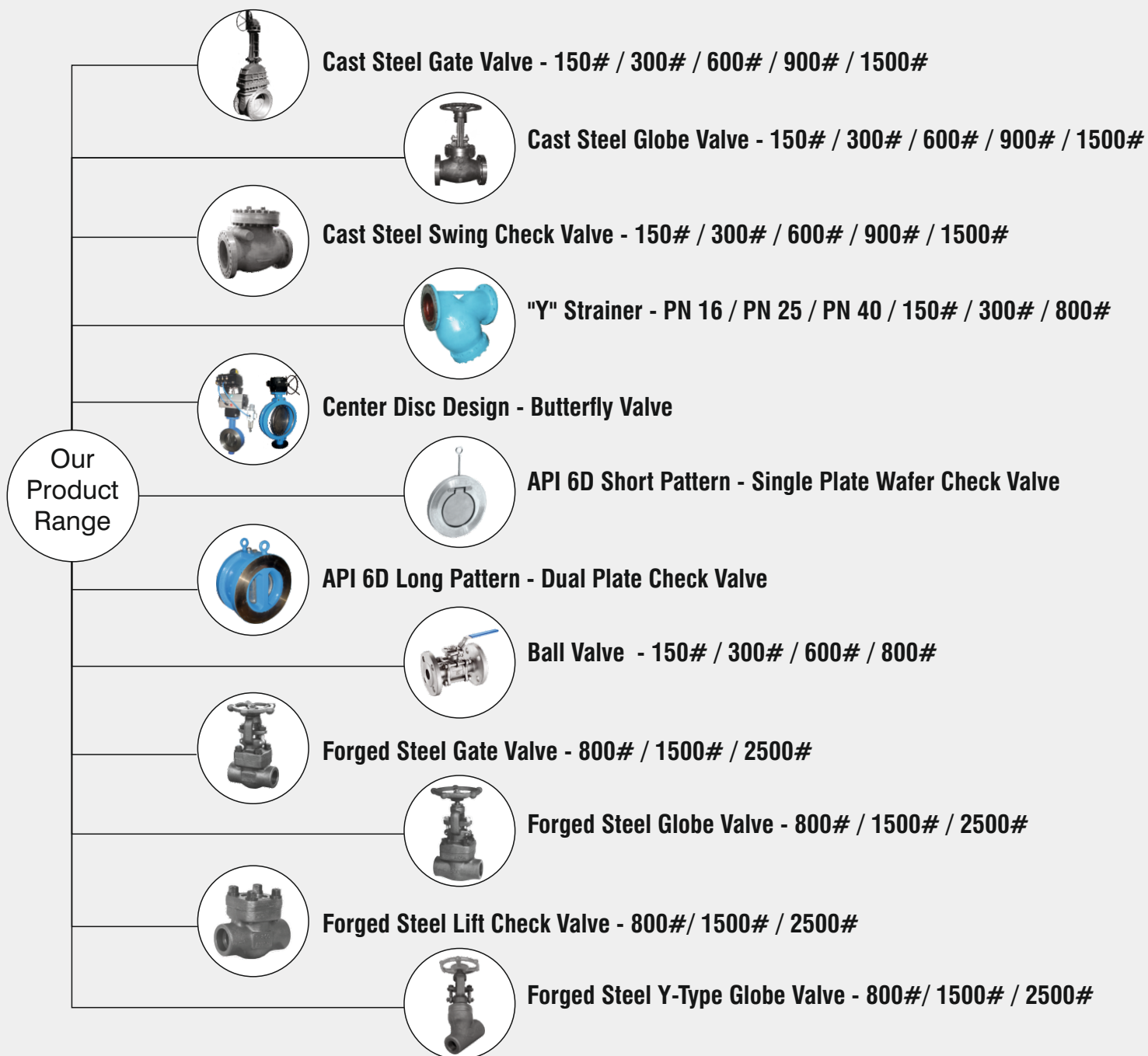
Size : 1/4" (6 mm) to 2 1/2" (65 mm)
 Class : 800# / 1500# / 2500#
 End : Threaded / Socket Weld / Butt Weld / Flanged End
 Design : API 602/BS 5352 / B 16.11 / B 16.25
 Features : Bolted / Welded Bonnet
 *Special Material & Higher Size also available on request

Forged Steel Y-Type Globe Valve 800# / 1500# / 2500#

TESTING	TEST PRESSURE			
	HYDRAULIC			PNEUMATIC
	800#	1500#	2500#	
BODY	3000 PSIG	5400PSIG	9060 PSIG	-
BACK SEAT	2200PSIG	4075PSIG	6800PSIG	-
SEAT	2200 PSIG	4075 PSIG	6800 PSIG	80 PSIG

@ 800#									
SIZE	L	H	H1	ØWH	SCR. ENDS		SW. ENDS		
					ØC	E	ØD		F(Min.)
							Max.	Min.	
15	88	162	170	90	1/2"	13.56	22.22	21.72	9.65
20	88	170	180	90	3/4"	13.87	27.56	27.05	12.7
25	105	190	202	90	1"	17.35	34.29	33.78	12.7
40	155	243	260	145	1.1/2"	18.38	49.15	48.64	12.7
50	155	255	272	145	2"	19.23	61.62	61.11	15.75
65	160	280	330	200	2.1/2"	20.5	74.20	73.60	15.75

@ 1500#									
SIZE	L	H	H1	ØWH	SCR. ENDS		SW. ENDS		
					ØC	E	ØD		F(Min.)
							Max.	Min.	
15	88	170	180	90	1/2"	13.56	22.22	21.72	9.65
20	105	190	202	90	3/4"	13.87	27.56	27.05	12.7
25	115	243	260	145	1"	17.35	34.29	33.78	12.7
40	155	255	272	145	1.1/2"	18.38	49.15	48.64	12.7
50	160	280	330	200	2"	19.23	61.62	61.11	15.75



Integrated Design Approach

Quality Products

Timely Delivery



Lean Manufacturing Process

Competitive Prices

Best Services

EVERGREEN
ENGINEERS
ISO 9001:2015 Certified

Manufacturers of all kinds of
ELITETM
INDUSTRIAL VALVES

Plant : Plot No. 40, Mahalaxmi Ind. Estate,
Sanand-Viramgam Highway, Iyava, Sanand, Ahmedabad-382 170.
M : +91-9909019109 | E : evergreenengineers12@gmail.com

Sales Depot : A/127, Ajit Mill Ind. Estate,
Rakhial, Ahmedabad - 380 023.
M : +91-9969088703
E : info@elitevalves.in | sales@elitevalves.in | W: www.elitevalves.in



All the specifications, particulars and illustrations are subject to alterations in respect of modifications in design and construction.