

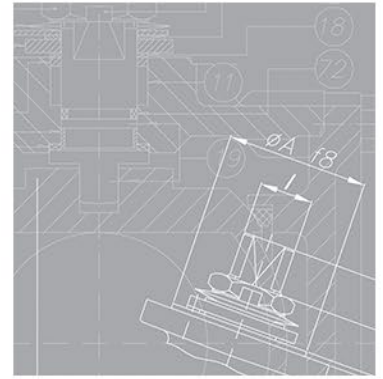
Technical Datasheet

Trunnion Forged ANSI Ball Valves

6015
6030
6060

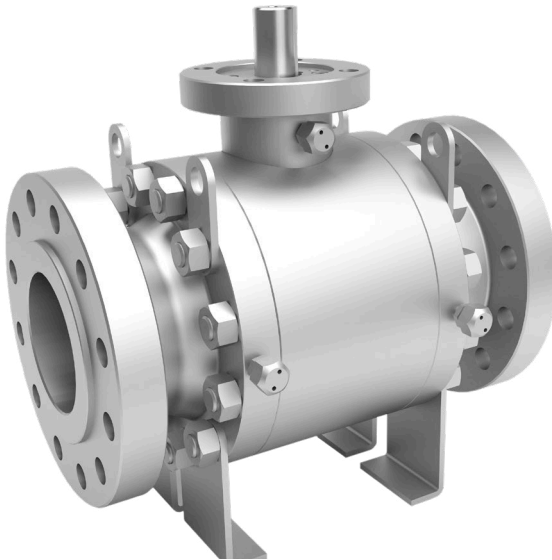
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FUGITIVE
EMISSIONS
EN-ISO 15848-1
TALUFT / VDI 2440



- Valve design: Full Bore API 6D / ISO 17292
- Body design: ASME VIII Div.1
- Shell thickness: ASME B16.34
- Flanges: ASME B16.5
- Face to face dimensions: ASME B16.10 Long Pattern
- Marking: CE - PED / MSS SP-25 / API 6D - *Optional*
- Pressure testing: API 598 - API 6D
- ISO 5211
- NACE MR0175 / ISO 15156 - NACE MR0103 / ISO 17945

Certifications

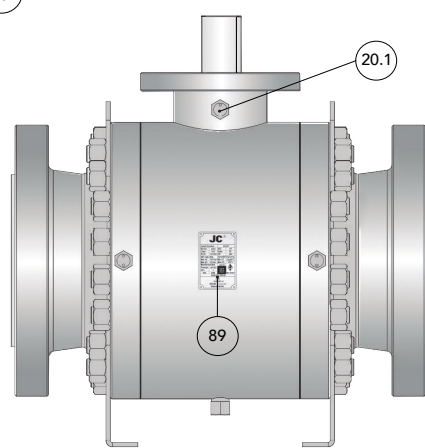
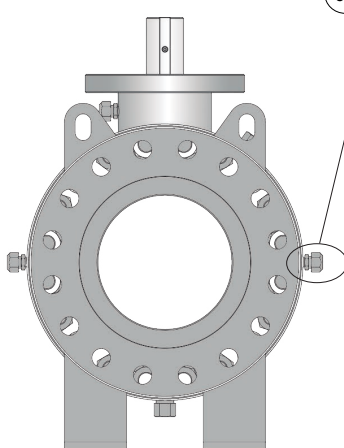
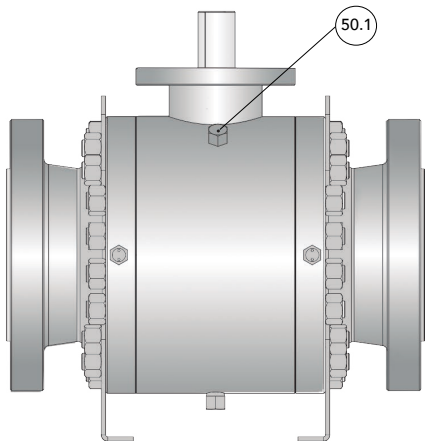
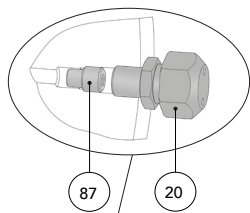
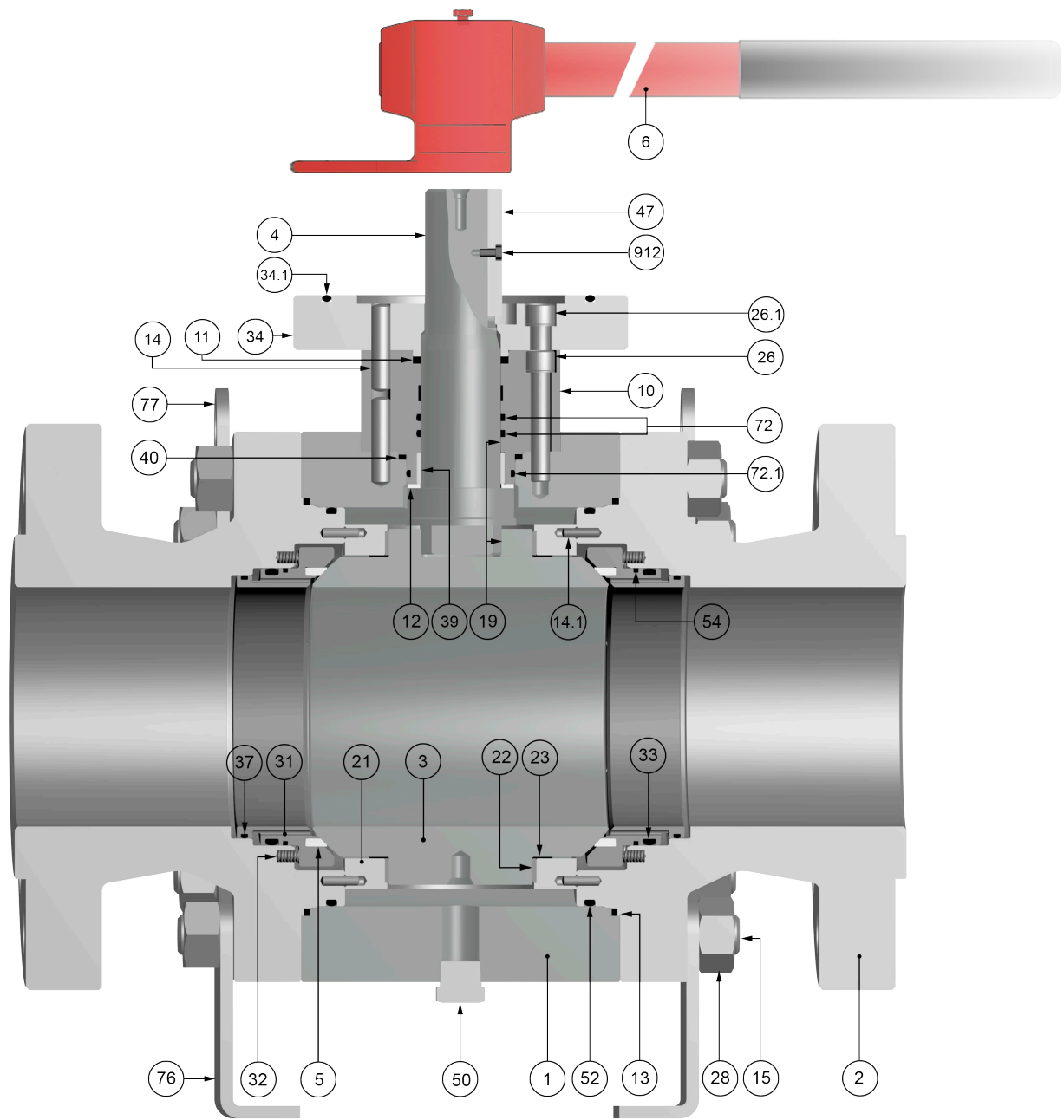
Company Certifications

- ISO9001 Quality Management System
- ISO14001 Environmental Management System

Product Certificates

- Fire Safe API 607, ISO 10497, API 6FA
- PED 2014/68/EU - CE marking
- ATEX 2014/34/EU– (II2GD)
- Russian Federation Certificate TRCU 10, TRCU 12, TRCU 32
- Food processing and pharmaceutical industry FDA, USP CLASS VI COMPLIANCE (CE 1935/2004) - *Optional*
- Safety Integrity Level (SIL) LEVEL 3 IEC 61508
- Fugitive Emissions TA-Luft / ISO 15848-1
- CRN (Canadian Registration Number)
- API Monogram License 6D-0197 (Monogram under request)

ANSI Ball Valves
TRUNNION FORGED

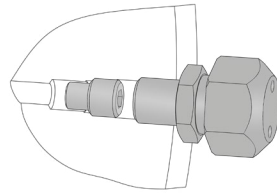


Item	Description	Material		
		A.I.CG. / DV	L.I.CG. / DV	I.I.CG. / DV
1 / 2	Body / Body Connector	ASTM A105N	ASTM A350 Gr. LF2 CL.1	ASTM A182 Gr. F316
3	Ball	ASTM A182 Gr. F316		
4	Stem	ASTM A182 Gr. F316		
5	Seat Insert	C.G. (Class 150 & 300 up to NPS-12") / DEVLON (Class 150 & 300, NPS-14" and above) and all sizes Class 600		
6	Lever	ASTM A216 Gr. WCB		
10	Gland	ASTM A105N	ASTM A350 Gr. LF2 CL.1	ASTM A182 Gr. F316
11	Gland packing	GRAPHITE		
12	Stem thrust seal	25% G.F. PTFE		
13	Body connector seal	GRAPHITE		
14	Pin	100Cr6	ASTM A276 Tp. 420	
14.1	Pin	100Cr6	ASTM A276 Tp. 420	
15	Stud	ASTM A193 Gr. B7M Zinc Bichromated	ASTM A320 Gr. L7M Zinc Bichromated	ASTM A193 Gr. B8M
19	Antistatic device	STAINLESS ST.		
20	Seat injection fitting	ASTM A105N/ A350 Gr. LF2 CL.1 DUAL CERT.		ASTM A479 Tp.316
20.1	Stem injection fitting	ASTM A105N/ A350 Gr. LF2 CL.1 DUAL CERT.		ASTM A479 Tp.316
21	Ball Trunnion	ASTM A105N/ A350 Gr. LF2 CL.1 DUAL CERT.		ASTM A276 Tp.316
22	Trunnion bearing	AISI-316 + PTFE		
23	Bearing	PTFE + 25% G.F.		
26	Bolt	ASTM A193 Gr. B7M Zinc Bichromated	ASTM A320 Gr. L7M Zinc Bichromated	ASTM A193 Gr. B8M
26.1	Bolt	ASTM A193 Gr. B7M Zinc Bichromated	ASTM A320 Gr. L7M Zinc Bichromated	ASTM A193 Gr. B8M
28	Nut	ASTM A194 Gr. 2HM Zinc Bichromated	ASTM A194 Gr. 7M Zinc Bichromated	ASTM A194 Gr. 8M
31	Seat carrier	ASTM A182 Gr. F316		
32	Spring	INCONEL X-750		
33	O-Ring	FKM		
34	Mounting flange	ASTM A105N	ASTM A350 Gr. LF2 CL.1	ASTM A182 Gr. F316
34.1	O-Ring	FKM		
37	O-Ring	FKM		
39	Stem bushing	AISI-316 + PTFE		
40	Gasket	GRAPHITE		
47	Key	C45K		AISI-431
50	Drain plug	ASTM A105N	ASTM A350 Gr. LF2 CL.1	ASTM A479 Tp.316
50.1	Vent plug	ASTM A105N	ASTM A350 Gr. LF2 CL.1	ASTM A479 Tp.316
52	O'ring	FKM		
54	Seat carrier seal	GRAPHITE		
72	O-Ring	FKM		
72.1	O-Ring	FKM		
76	Support Legs	S235JR		ASTM A276 Tp.316
77	Lifting lugs	S235JR		ASTM A276 Tp.316
87	Check valve	ASTM A479 Tp.316		
89	Name plate	ASTM A276 Tp. 316		
912	Bolt	A4-70		

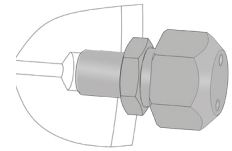
Other configurations under request

**6 LEVER**

NPS	150#	300#	600#
50 (2")	YES	YES	YES
80 (3")	YES	YES	YES
100 (4")	YES	YES	YES
150 (6")	N.A.	N.A.	N.A.
200 (8")	N.A.	N.A.	N.A.
250 (10")	N.A.	N.A.	N.A.
300 (12")	N.A.	N.A.	N.A.
350 (14")	N.A.	N.A.	N.A.
400 (16")	N.A.	N.A.	N.A.
450 (18")	N.A.	N.A.	N.A.
500 (20")	N.A.	N.A.	N.A.
600 (24")	N.A.	N.A.	N.A.

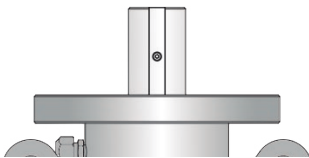
**20 SEAT INJECTOR FITTING**

NPS	150#	300#	600#
50 (2")	N.A.	N.A.	N.A.
80 (3")	N.A.	N.A.	N.A.
100 (4")	N.A.	N.A.	1 per Seat
150 (6")	N.A.	N.A.	1 per Seat
200 (8")	N.A.	N.A.	1 per Seat
250 (10")	N.A.	2 x 180° per Seat	2 x 180° per Seat
300 (12")	N.A.	2 x 180° per Seat	2 x 180° per Seat
350 (14")	N.A.	2 x 180° per Seat	2 x 180° per Seat
400 (16")	N.A.	2 x 180° per Seat	2 x 180° per Seat
450 (18")	N.A.	2 x 180° per Seat	2 x 180° per Seat
500 (20")	N.A.	2 x 180° per Seat	2 x 180° per Seat
600 (24")	N.A.	2 x 180° per Seat	2 x 180° per Seat

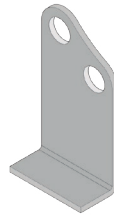
**20.1 STEM INJECTOR FITTING**

NPS	150#	300#	600#
50 (2")	YES	YES	YES
80 (3")	YES	YES	YES
100 (4")	YES	YES	YES
150 (6")	YES	YES	YES
200 (8")	YES	YES	YES
250 (10")	YES	YES	YES
300 (12")	YES	YES	YES
350 (14")	YES	YES	YES
400 (16")	YES	YES	YES
450 (18")	YES	YES	YES
500 (20")	YES	YES	YES
600 (24")	YES	YES	YES

N.A. : Optional Body Cavity

**47 KEY**

NPS	150#	300#	600#
50 (2")	1	1	1
80 (3")	1	1	1
100 (4")	1	1	1
150 (6")	1	1	1
200 (8")	1	1	1
250 (10")	1	1	1
300 (12")	1	1	2
350 (14")	1	1	2
400 (16")	2	2	2
450 (18")	2	2	2
500 (20")	2	2	2
600 (24")	2	2	2

**76 SUPPORT LEGS**

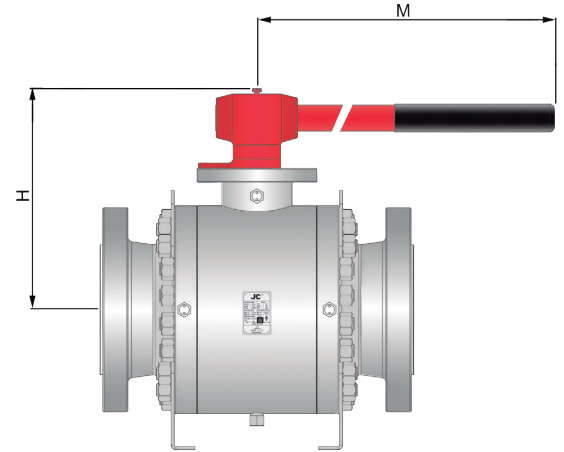
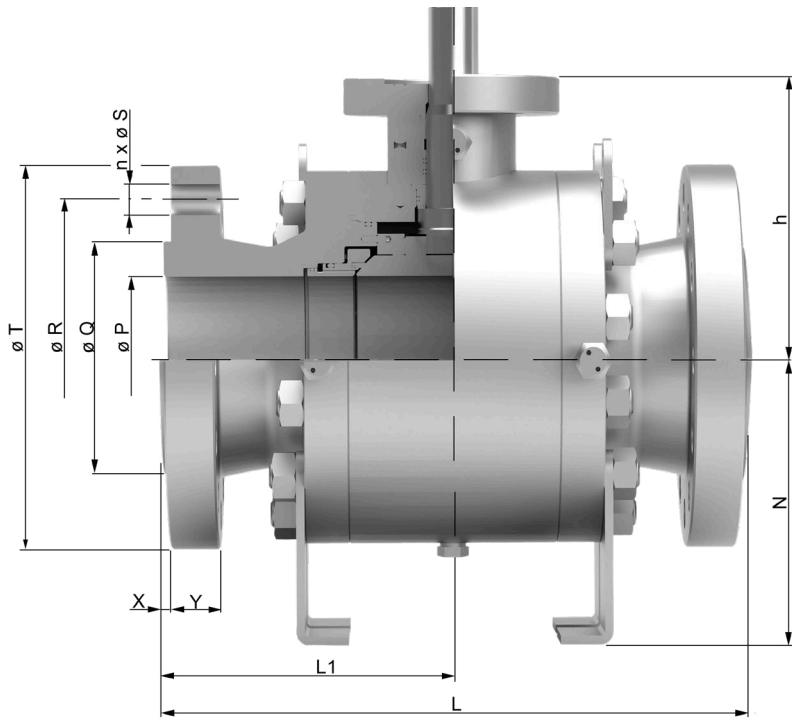
NPS	150#	300#	600#
50 (2")	N.A.	N.A.	N.A.
80 (3")	N.A.	N.A.	N.A.
100 (4")	N.A.	N.A.	YES
150 (6")	YES	YES	YES
200 (8")	YES	YES	YES
250 (10")	YES	YES	YES
300 (12")	YES	YES	YES
350 (14")	YES	YES	YES
400 (16")	YES	YES	YES
450 (18")	YES	YES	YES
500 (20")	YES	YES	YES
600 (24")	YES	YES	YES

**77 LIFTING LUGS**

NPS	150#	300#	600#
50 (2")	N.A.	N.A.	N.A.
80 (3")	N.A.	N.A.	N.A.
100 (4")	N.A.	N.A.	YES
150 (6")	YES	YES	YES
200 (8")	YES	YES	YES
250 (10")	YES	YES	YES
300 (12")	YES	YES	YES
350 (14")	YES	YES	YES
400 (16")	YES	YES	YES
450 (18")	YES	YES	YES
500 (20")	YES	YES	YES
600 (24")	YES	YES	YES

50 & 50.1 THREAD / PIPE SIZES FOR VENT & DRAINS

Nominnal Size of Valve		Thread / Pipe Size in (mm)
2" to 4"	50 to 100	1/2"
6" to 8"	150 to 200	3/4"
> 8"	> 200	1"



Note:
Raised Face: Acc. MSS SP-6

Series 6015 (Class 150)

DN	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	N	WEIGHT	Kv
50 (2")	49	178	89	91,9	120,6	4x19,1	152	1,5	14,2	120,5	207	610	92	21	295
80 (3")	74	203	101,5	127,0	152,4	4x19,1	190	1,5	17,5	163	270	665	121	43	861
100 (4")	100	229	106	157,2	190,5	8x19,1	229	1,5	22,4	180,5	287	665	138	58	1.848
150 (6")	150	394	197	215,9	241,3	8x22,2	279	1,5	23,9	258	--	--	220	175	4.245
200 (8")	201	457	228,5	269,7	298,4	8x22,2	343	1,5	26,9	298,5	--	--	280	298	8.699
250 (10")	252	533	266,5	323,8	362,0	12x25,4	406	1,5	28,4	341,5	--	--	320	498	14.795
300 (12")	303	610	305	381,0	431,8	12x25,4	483	1,5	30,2	394,5	--	--	400	764	22.676
350 (14")	334	686	343	412,8	476,2	12x28,6	533	1,5	33,3	413,5	--	--	410	912	27.736
400 (16")	385	762	381	469,9	539,8	16x28,6	597	1,5	35,1	473,5	--	--	460	1.319	38.518
450 (18")	436	864	432	533,4	577,8	16x31,8	635	1,5	38,1	518,5	--	--	510	1.858	50.425
500 (20")	488	914	457	584,2	635,0	20x31,8	693	1,5	41,1	572,5	--	--	565	2.518	66.213
600 (24")	589	1.067	533,5	692,2	749,3	20x34,9	813	1,5	46,0	663,5	--	--	640	3.848	101.050

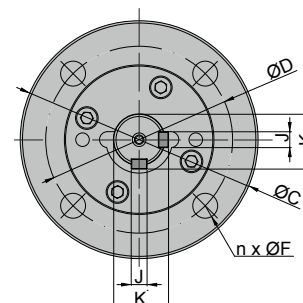
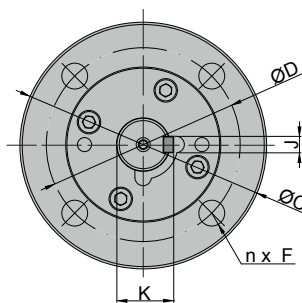
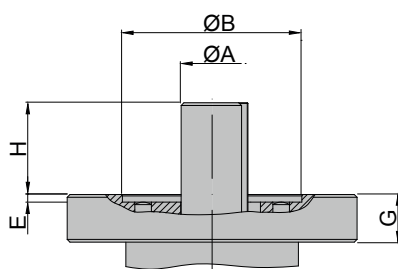
* Weight in Kg * Dimensions in mm

Series 6030 (Class 300)

DN	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	N	WEIGHT	Kv
50 (2")	49	216	108	91,9	127,0	8x19,1	165	1,5	20,6	120,5	207	610	92	25	268
80 (3")	74	283	141,5	127,0	168,1	8x22,2	210	1,5	26,9	163	270	665	121	58	729
100 (4")	100	305	152,5	157,2	200,2	8x22,2	254	1,5	30,2	180,5	287	665	139	86	1.602
150 (6")	150	403	201,5	215,9	269,7	12x22,2	318	1,5	35,1	258	--	--	220	195	4.195
200 (8")	201	502	251	269,7	330,2	12x25,4	381	1,5	39,6	298,5	--	--	270	346	8.293
250 (10")	252	568	284	323,8	387,4	16x28,6	444	1,5	46,0	341,5	--	--	335	544	14.331
300 (12")	303	648	324	381,0	450,8	16x31,8	521	1,5	49,3	394,5	--	--	400	827	22.014
350 (14")	334	762	381	412,8	514,4	20x31,8	584	1,5	52,3	413,5	--	--	420	1.142	26.329
400 (16")	385	838	419	469,9	571,5	20x34,9	648	1,5	55,6	473,5	--	--	460	1.538	36.720
450 (18")	436	914	457	533,4	628,6	24x34,9	711	1,5	58,7	518,5	--	--	510	2.068	49.019
500 (20")	488	991	495,5	584,2	685,8	24x34,9	775	1,5	62,0	572,5	--	--	565	2.844	63.574
600 (24")	589	1.143	571,5	692,2	812,8	24x41,3	914	1,5	68,3	663,5	--	--	640	4.398	97.633

Series 6060 (Class 600)

DN	ØP	L		L1		ØQ		ØR	n x ØS	ØT	X		Y	h	H	M	N	WEIGHT	Kv
		RF	RTJ	RF	RTJ	RF	RTJ				RF	RTJ							
50 (2")	49	292	295	146	147,5	91,9	108	127,0	8x19,1	165	6,4	7.92	25,4	120,5	207	610	92	34	230
80 (3")	74	356	359	178	179,5	127,0	146	168,1	8x22,2	210	6,4	7.92	31,8	163	270	665	121	72	650
100 (4")	100	432	435	216	217,5	157,2	175	215,9	8x25,4	273	6,4	7.92	38,1	180,5	289	665	190	124	1.346
150 (6")	150	559	562	279,5	281	215,9	241	292,1	12x28,6	356	6,4	7.92	47,8	258	--	--	250	271	3.561
200 (8")	201	660	663	330	331,5	269,7	302	349,2	12x31,8	419	6,4	7.92	55,6	308,5	--	--	295	494	7.232
250 (10")	252	787	790	393,5	395	323,8	356	431,8	16x34,9	508	6,4	7.92	63,5	353,5	--	--	350	786	12.175
300 (12")	303	838	841	419	420,5	381,0	413	489,0	20x34,9	559	6,4	7.92	66,5	413,5	--	--	400	1.172	19.330
350 (14")	334	889	892	444,5	446	412,8	457	527,0	20x38,1	603	6,4	7.92	69,8	441,5	--	--	440	1.444	24.376
400 (16")	385	991	994	495,5	497	469,9	508	603,2	20x41,3	686	6,4	7.92	76,2	498	--	--	480	2.081	33.767
450 (18")	436	1.092	1.095	546	547,5	533,4	575	654,0	20x44,5	743	6,4	7.92	82,6	554	--	--	535	2.851	44.846
500 (20")	488	1.194	1.200	597	600	584,2	635	723,9	24x44,5	813	6,4	9.52	88.9	596,5	--	--	590	3.805	57.918
600 (24")	589	1.397	1.407	698,5	703,5	692,2	749	838,2	24x50,8	940	6,4	11.13	101,6	727	--	--	690	6.293	88.312



Free Stem Dimensions

Actuator Connection (Class 150-300)

DN	ISO 5211	ØA	ØB	ØC	ØD	E	G	H	n x F	J	K	Nº KEYS
50 (2")	F10	24,9	70	125	102	3,5	15	37	4 x 11	8	27,8	1
80 (3")	F12	34,9	85	150	125	3,5	21,5	50	4 x 13,5	10	38,2	1
100 (4")	F12	34,9	85	150	125	3,5	21,5	51	4 x 13,5	10	38,2	1
150 (6")	F16	44,9	130	210	165	5,5	34,5	66,5	4 x 22	14	48,4	1
200 (8")	F25	54,9	200	300	254	5,5	34,5	64,5	8 x 18	16	58,7	1
250 (10")	F25	59,9	200	300	254	5,5	34,5	79	8 x 18	18	64,1	1
300 (12")	F25	69,9	200	300	254	5,5	34,5	107	8 x 18	20	74,5	1
350 (14")	F25	69,9	200	300	254	5,5	34,5	107	8 x 18	20	74,5	1
400 (16")	F25	84,9	200	300	254	5,5	38	105,5	8 x 18	22	90,4	2
450 (18")	F30	84,9	230	350	298	5,5	38	125,5	8 x 22	22	90,4	2
500 (20")	F30	99,9	230	350	298	5,5	40	125,5	8 x 22	28	106	2
600 (24")	F35	119,9	260	415	356	5,5	44	165	8 x 33	32	126,8	2

Actuator Connection (Class 600)

DN	ISO 5211	ØA	ØB	ØC	ØD	E	G	H	n x F	J	K	Nº KEYS
50 (2")	F10	24,9	70	125	102	3,5	15	37	4 x 11	8,0	27,8	1
80 (3")	F12	34,9	85	150	125	3,5	21,5	50	4 x 13,5	10,0	38,2	1
100 (4")	F12	34,9	85	150	125	3,5	21,5	52	4 x 13,5	10,0	38,2	1
150 (6")	F16	44,9	130	210	165	5,5	34,5	66,5	4 x 22	14,0	48,4	1
200 (8")	F25	59,9	200	300	254	5,5	34,5	79	8 x 18	18,0	64,1	1
250 (10")	F25	69,9	200	300	254	5,5	34,5	107	8 x 18	20,0	74,5	1
300 (12")	F25	84,9	200	300	254	5,5	38	105,5	8 x 18	22	90,4	2
350 (14")	F30	84,9	230	350	298	5,5	38	125,5	8 x 22	22	90,4	2
400 (16")	F30	99,9	230	350	298	5,5	40	125,5	8 x 22	28	106,0	2
450 (18")	F35	104,9	260	415	356	5,5	44	165	8 x 33	28	111,0	2
500 (20")	F35	119,9	260	415	356	5,5	44	165	8 x 33	32	126,8	2
600 (24")	F40	144,9	300	475	406	8,5	57	195	8 x 39	36	152,6	2

Differential Pressure 150 Lbs C.G.

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
50 (2")	42	21	25	31	21	33	262
80 (3")	83	41	50	62	41	66	559
100 (4")	116	58	69	87	58	92	559
150 (6")	255	128	153	191	128	204	1.691
200 (8")	407	204	244	305	204	326	3.137
250 (10")	732	366	439	549	366	585	4.076
300 (12")	1.073	536	644	804	536	858	6.556
350 (14")	--	--	--	--	--	--	--
400 (16")	--	--	--	--	--	--	--
450 (18")	--	--	--	--	--	--	--
500 (20")	--	--	--	--	--	--	--
600 (24")	--	--	--	--	--	--	--

Differential Pressure 150 Lbs DEVLON

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
50 (2")	61	30	36	45	30	48	262
80 (3")	116	58	69	87	58	92	559
100 (4")	152	76	91	114	76	121	559
150 (6")	370	185	222	277	185	296	1.691
200 (8")	464	232	279	348	232	371	3.137
250 (10")	946	473	568	710	473	757	4.076
300 (12")	1.218	609	731	913	609	974	6.556
350 (14")	1.249	624	749	936	624	999	6.556
400 (16")	2.184	1.092	1.310	1.638	1.092	1.747	11.463
450 (18")	3.157	1.579	1.894	2.368	1.579	2.526	11.463
500 (20")	3.927	1.964	2.356	2.945	1.964	3.142	18.752
600 (24")	7.321	3.660	4.392	5.490	3.660	5.856	33.274

Differential Pressure 300 Lbs C.G.

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
50 (2")	64	32	38	48	32	51	262
80 (3")	136	68	82	102	68	109	559
100 (4")	231	116	139	173	116	185	769
150 (6")	457	228	274	342	228	365	1.691
200 (8")	842	421	505	631	421	673	3.137
250 (10")	1.480	740	888	1.110	740	1.184	4.076
300 (12")	2.222	1.111	1.333	1.667	1.111	1.778	6.556
350 (14")	--	--	--	--	--	--	--
400 (16")	--	--	--	--	--	--	--
450 (18")	--	--	--	--	--	--	--
500 (20")	--	--	--	--	--	--	--
600 (24")	--	--	--	--	--	--	--

Differential Pressure 300 Lbs DEVLON

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
50 (2")	84	42	50	63	42	67	262
80 (3")	169	85	102	127	85	136	559
100 (4")	265	133	159	199	133	212	769
150 (6")	616	308	370	462	308	493	1.691
200 (8")	942	471	565	706	471	753	3.137
250 (10")	1.766	883	1.059	1.324	883	1.412	4.076
300 (12")	2.438	1.219	1.463	1.828	1.219	1.950	6.556
350 (14")	2.745	1.372	1.647	2.058	1.372	2.196	6.556
400 (16")	4.565	2.283	2.739	3.424	2.283	3.652	11.463
450 (18")	6.248	3.124	3.749	4.686	3.124	4.998	11.463
500 (20")	8.410	4.205	5.046	6.307	4.205	6.728	18.752
600 (24")	16.456	8.228	9.874	12.342	8.228	13.165	33.274

Differential Pressure 600 Lbs DEVLON

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
50 (2")	121	61	73	91	61	97	262
80 (3")	259	129	155	194	129	207	559
100 (4")	438	219	263	328	219	350	769
150 (6")	897	448	538	672	448	717	1.691
200 (8")	1.843	921	1.106	1.382	921	1.474	4.076
250 (10")	3.619	1.810	2.171	2.714	1.810	2.895	6.556
300 (12")	5.093	2.547	3.056	3.820	2.547	4.074	11.463
350 (14")	5.782	2.891	3.469	4.336	2.891	4.625	11.463
400 (16")	9.229	4.615	5.537	6.922	4.615	7.383	18.752
450 (18")	10.830	5.415	6.498	8.122	5.415	8.664	22.122
500 (20")	15.620	7.810	9.372	11.715	7.810	12.496	33.274
600 (24")	25.960	12.980	15.576	19.470	12.980	20.768	60.521

Differential Pressure 600 Lbs PEEK

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
50 (2")	133	67	80	100	67	106	262
80 (3")	292	146	175	219	146	233	559
100 (4")	486	243	292	365	243	389	769
150 (6")	985	492	591	738	492	788	1.691
200 (8")	2.019	1.009	1.211	1.514	1.009	1.615	4.076
250 (10")	3.795	1.898	2.277	2.846	1.898	3.036	6.556
300 (12")	5.445	2.723	3.267	4.084	2.723	4.356	11.463
350 (14")	6.127	3.064	3.676	4.595	3.064	4.902	11.463
400 (16")	9.900	4.950	5.940	7.425	4.950	7.920	18.752
450 (18")	11.660	5.830	6.996	8.745	5.830	9.328	22.122
500 (20")	17.864	8.932	10.718	13.398	8.932	14.291	33.274
600 (24")	31.075	15.538	18.645	23.306	15.538	24.860	60.521

