



NPS	d	L	W	H	C	D	E	d1	N	M	T	T1	H1	S	Torque (in-lb)	
															breakaway	action
1/2"	0.59	4.25	6.5	3.39	2.38	3.5	1.38	1.65	4	0.63	0.44	0.06	0.9	0.31	33.19	17.7
3/4"	0.79	4.61	6.5	3.5	2.76	3.88	1.69	1.65	4	0.63	0.44	0.06	0.79	0.31	55.32	39.83
1"	0.98	5	7.87	4.09	3.13	4.25	2.01	1.97	4	0.63	0.46	0.06	1.07	0.39	74.17	48.68
1-1/4"	1.26	5.51	7.87	4.29	3.5	4.61	2.52	1.97	4	0.63	0.5	0.06	1.04	0.39	112.85	56.47
1-1/2"	1.5	6.5	9.84	5.12	3.88	5	2.87	2.76	4	0.63	0.56	0.06	1.59	0.47	185.86	154.89
2"	1.97	7.01	10.43	5.31	4.72	6	3.7	2.76	4	0.75	0.63	0.06	1.57	0.47	258.88	192.5
2-1/2"	2.56	7.52	15.35	5.71	5.49	7.01	4.29	2.76	4	0.75	0.69	0.06	1.6	0.47	243.39	207.99
3"	3.15	7.99	15.35	6.54	5.98	7.52	5.08	4.02	4	0.75	0.75	0.06	1.65	0.59	398.28	221.27
4"	3.94	9.02	15.35	7.13	7.5	9.02	6.26	4.02	8	0.75	0.94	0.06	1.65	0.59	442.54	354.03

unit:in

ITEM	PARTS	MATERIAL
1	BODY	ASTM A351-CF8M
2	CAP	
3	BALL	RTFE
4	SEAT	
5	BODY SEAL	PTFE
6	THRUST WASHER	
7	PACKING	AISI 304
8	STEM NUT	
9	GLAND RING	AISI 316
10	STEM	
11	HANDLE	AISI 304
12	GLAND NUT	
13	BOLT	
14	STOP PIN	

△			
△			
△			
Revise	Description	Date	Approve
DRAWING NO.		NP 2020S	

CHECK BY	DRAWING BY	DATE	SPECIFICATION	2 PCS FLANGED END BALL VALVE ANSI 150
	<i>Julie</i>	Oct.03.2005	MATERIAL	ASTM A351-CF8M
			PROCESS/Nr.	
			UNIT / SCALE	mm

