

# CIPHY INDUSTRY LTD.,CO.

## ANSI CLASS 600/900/1500

### CARBON STEEL OR STAINLESS STEEL

### BALL VALVE 3-PCS TRUNNION TYPE

**MODEL NO: FLAXRF-3P-TR**



#### **BALL VALVE PRODUCT'S SIZE:**

PRESSURE GRADE	FROM	TO
CLASS 1500	2"	16"
CLASS 900	2"	16"
CLASS 600	2"	24"

#### **DESIGN DESCRIPTION:**

- \* CAST STEEL BALL VALVE CLASS  
150/300/600/900/1500
- \* 3- PIECE STRUCTURE & TRUNION BALL TYPE.
- \* GEAR OPERATOR PROVIDED 4" AND ABOVE
- \* ANTI-STATIC DEVICE & ANTI-BLOWOUT STEM DESIGN
- \* FIRE-SAFE SEAT DESIGN
- \* PTFE & METAL SEAT, FULL BORE/ STANDARD BORE.
- \* CONNECTION: RF(RAISED FACE); RTJ (RING TYPE JOINT)

#### **WORKING PRESSURE AND TEMPERATURE**

WORKING TEMPERATURE		
MATERIAL	CELSIUR SCALE	FAHRENHEIT
CARBON STEEL	-29 <sup>0</sup> C~425 <sup>0</sup> C	6 <sup>0</sup> F~822 <sup>0</sup> F
STAINLESS STEEL	-40 <sup>0</sup> C~550 <sup>0</sup> C	15 <sup>0</sup> F~1047 <sup>0</sup> F

#### **GENERAL DESIGN SPECIFICATIONS:**

ITEM	AMERICAN STANDARD
MANUFACTURE	API 6D
PRESSURE-TEMPERATURE RATINGS	ANSI B16.34
FACE TO FACE	ANSI B16.10
END FLANGE	ANSI B16.5
BODY & CAP CONTACT	ANSI B16.5
INSPECTION AND TEST	API 6D

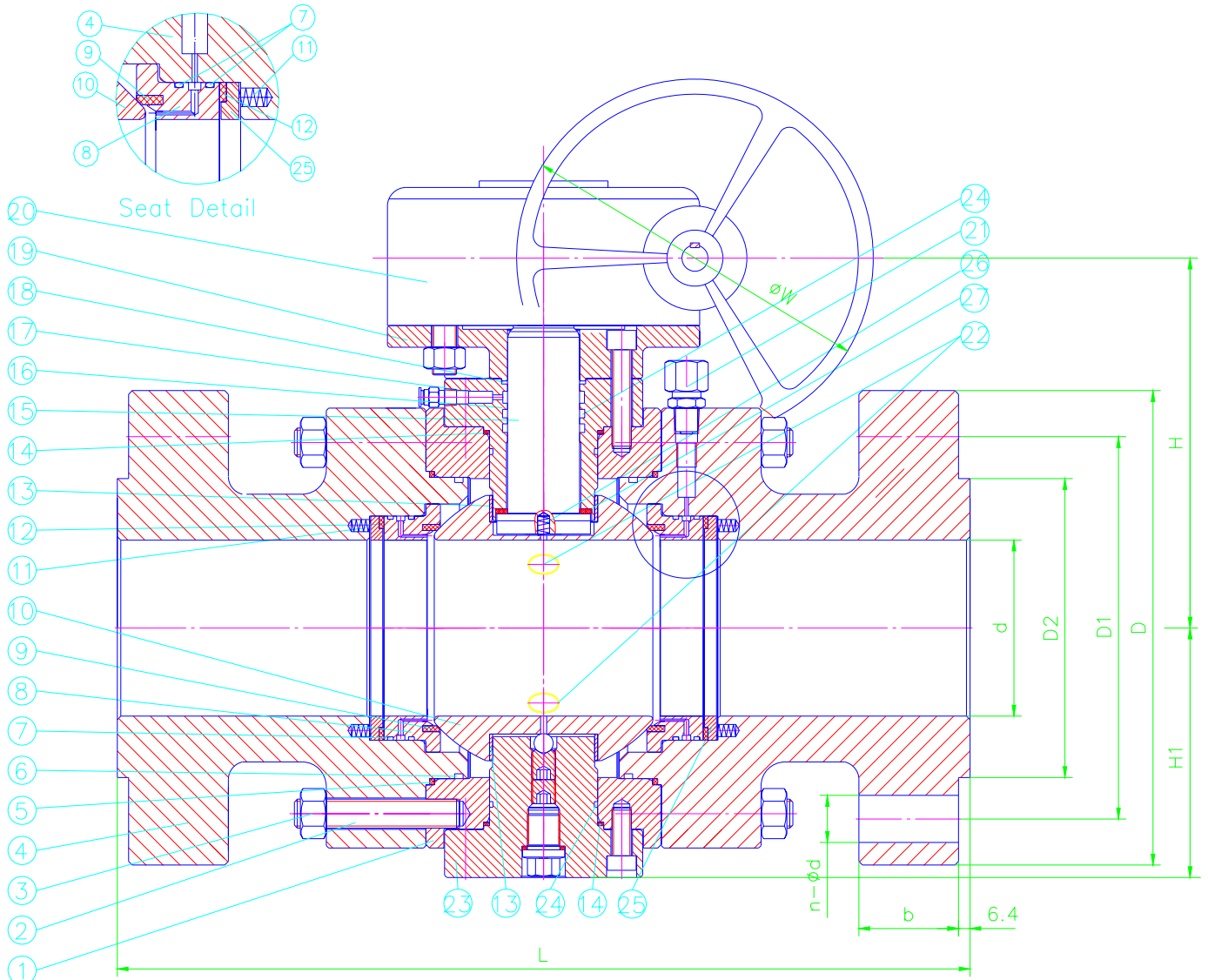
#### **TEST PRESSURE TO API 598 OR BS 6755 PATRT 1**

CLASS	SHELL (WATER)		SEAT (WATER)		SEAT (AIR)	
1500	3.1MPA	450PSI	2.2MPA	315PSI	0.6MPA	80PSI
900	7.8MPA	1125PSI	5.6MPA	815PSI	0.6MPA	80PSI
600	15.3MPA	2225PSI	11.2MPA	1630PSI	0.6MPA	80PSI

**PARTS AND MATERIAL (ASTM)**

PARTS AND MATERIAL		MATERIAL					
NO.	PARTS NAME						
1	BODY	ASTM A105/ENP	A352LF2	A351CF8	A351CF8M	A351CF3	A351CF3M
2	STUB	ASTM A193 B7 OR A193 B7M OR A320 L7 OR A320 B8 OR A320 B8M					
3	NUT	ASTM A194 2H OR A194 2HM OR A194 4 OR A194 8					
4	ENDCAP	ASTM A105/ENP	A352LF2	A351CF8	A351CF8M	A351CF3	A351CF3M
5	SEAL, BODY	GRAPHITE+SS304 OR PTFE OR STAINLESS STEEL					
6	O-RING, BODY	VITON					
7	O-RING, SEAT RING	VITON					
8	SEAT RING	ASTM A105/ENP	A352LF2	A351CF8	A351CF8M	A351CF3	A351CF3M
9	SEAT INSERT	NYLON					
10	BALL	ASTM A105/ENP	A182 F304	A351CF8	A351CF8M	A351CF3	A351CF3M
11	SPRING	AISI 6150 17-7PH(INCONEL FOR NACE) Ni-Cr ALLOY					
12	GASKET, SEAT RING	GRAPHITE+SS304 OR PTFE OR STAINLESS STEEL					
13	STEM BEARING	Cu-Pb ALLOY					
14	GASKET, BONNET	GRAPHITE+SS304 OR PTFE OR STAINLESS STEEL					
15	STEM	ASTM A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
16	O-RING, STEM	VITON					
17	BONNET	ASTM A105/ENP	A352LF2	A351CF8	A351CF8M	A351CF3	A351CF3M
18	STEM PACKING	GRAPHITE OR GRAPHITE+SS304 OR PTFE OR STAINLESS STEEL					
19	GLAND	ASTM A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
20	GEAR BOX	DUCTILE IRON					
21	INJECTION FITTING	CARBON STEEL					
22	BLOCK & BLEED	ASTM A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
23	BALL RETAINER	ASTM A105/ENP	A352LF2	A351CF8	A351CF8M	A351CF3	A351CF3M
24	O-RING	VITON	VITON	VITON	VITON	VITON	VITON
25	FOLLOWER	ASTM A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
26	ANTI-STATIC DEVICE	AISI 6150 17-7PH(INCONEL FOR NACE) Ni-Cr ALLOY					
27	THRUST WASHER	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.



**DIMENSIONS LIST (UNIT:MM):**

## CLASS 600 WITH GEAR OPERATOR

DN	SIZE	d	D	D1	D2	b	n-φd	L	H	H1	φW
50	2"	51	165	127	92	26	8-19	292	177	130	600
65	2-1/2"	64	190	149	100	29	8-22	330	185	138	600
80	3"	75	210	168	127	32	8-22	356	208	175	1000
100	4"	102	273	216	157	38	8-25	432	250	200	600
125	5"	127	330	266.5	186	45	8-29	508	285	225	600
150	6"	152	356	292	216	48	12-29	559	290	190	800
200	8"	203	419	349	270	56	12-32	660	358	255	800
250	10"	254	508	432	324	64	16-35	787	424	298	800
300	12"	305	559	489	381	67	20-35	838	456	330	800
350	14"	337	603	527	413	70	20-38	889	475	355	600
400	16"	387	666	603	470	77	20-41	991	537	405	800
450	18"	438	743	654	533	83	20-44	1092	610	476	800
500	20"	489	813	724	584	89	24-44	1194	690	560	800
600	24"	591	940	838	692	102	24-52	1397			

## CLASS 900 WITH GEAR OPERATOR

DN	SIZE	d	D	D1	D2	b	n-φd	L	H	H1	φW
50	2"	51	216	165.1	92	38.5	8-26	368	177	130	600
65	2-1/2"	64	244	190.5	105	41.5	8-29	419	185	138	600
80	3"	76	241	190.5	127	38.5	8-26	381	208	175	1000
100	4"	102	292	234.9	157	44.5	8-32	457	250	200	600
150	6"	152	981	317.5	216	56	12-32	610	290	190	800
200	8"	203	470	393.7	270	63.5	12-39	737	358	255	800
250	10"	254	545	469.9	324	70	16-39	838	424	298	800
300	12"	305	610	533.4	381	79.5	20-39	965	456	330	800
350	14"	324	640	558.8	413	86	20-42	1029	475	355	600
400	16"	375	705	615.9	470	89	20-45	1130	537	405	800
450	18"										
500	20"										

## CLASS 1500 WITH GEAR OPERATOR

DN	SIZE	d	D	D1	D2	b	n-φd	L	H	H1	φW
50	2"	51	216	165.1	92	38.5	8-26	368	177	130	600
65	2-1/2"	64	244	190.5	105	41.5	8-29	419	185	138	600
80	3"	76	297	203.2	127	48	8-32	470	208	175	1000
100	4"	102	311	241.3	157	54	8-35	546	250	200	600
150	6"	146	394	317.5	216	83	12-39	705	290	190	800
200	8"	194	483	393.7	270	92.9	12-45	832	358	255	800
250	10"	241	585	482.6	324	108	12-51	991	424	298	800
300	12"	289	675	571.5	381	124	16-54	1130	456	330	800
350	14"	318	750	635	413	133.5	16-61	1257	475	355	600
400	16"	362	825	704.8	470	146.5	16-67	1384	537	405	800

**\* We hereby reserve the rights of any alternative dimension that would help to improve our valve's quality and working efficiency**



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