

VALVES WORKING WELL ON LINE AT CUSTOMER PLACE FOR OVER 11 YEARS



**Sri Ranganathar Valves (P) Ltd.**

Quality flow in every valve



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**GLOBE VALVES**

ISO 9001 : 2015 | PED | API 6D CERTIFIED

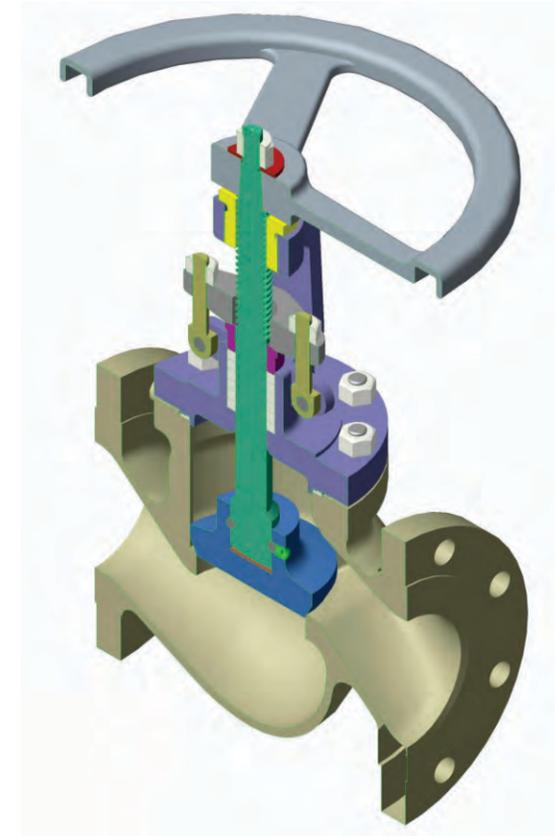
## GLOBE VALVES

- MEETS MSS SP 42 AND ASME B16.34
- API 623 & BS 1873 DESIGN ALSO AVAILABLE
- CONICAL BODY GUIDED DISC
- SMOOTH PROFILE FOR BETTER CV
- INTEGRAL BODY SEAT. VARIOUS SEAT OPTIONS AVAILABLE.
- CAST STEEL HAND WHEEL STD
- ALL GRADES OF ASTM A216, A217, A351, A352, A494 & A995 AVAILABLE
- WORKING ALL OVER THE WORLD FOR THE PAST 11 YEARS

## MADE TO DIFFERENT BRANDS, MATERIALS AND END CONNECTIONS



## CROSS SECTIONAL VIEW OF GLOBE VALVE



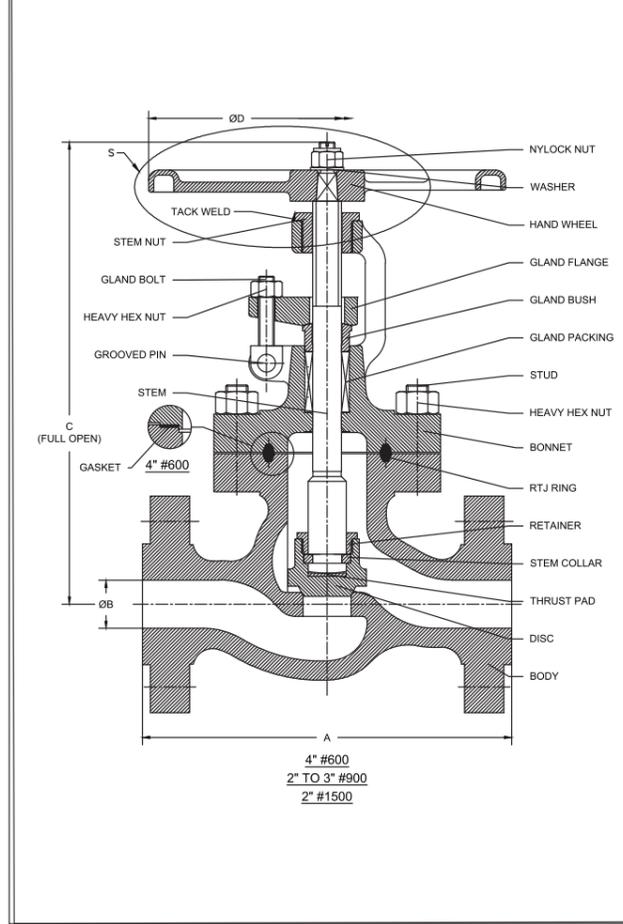
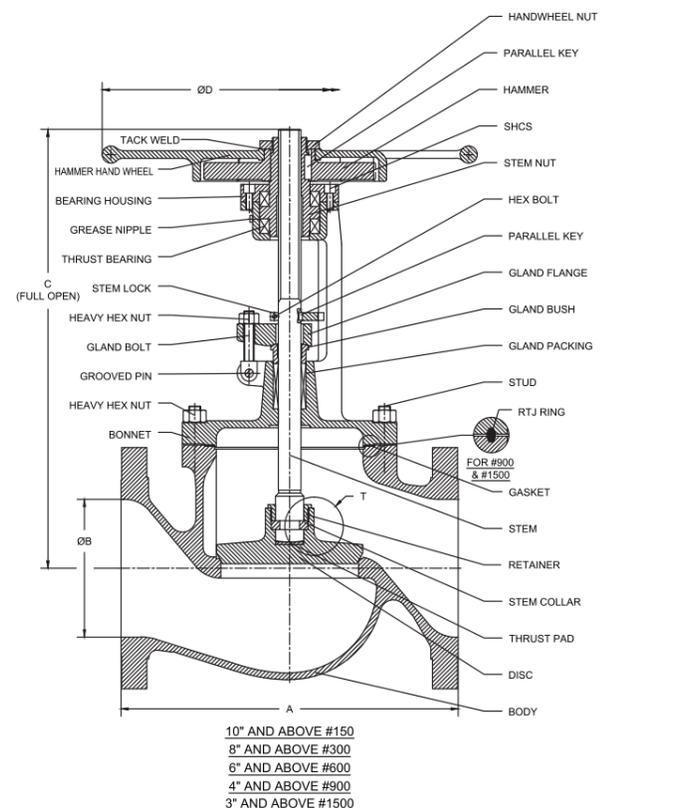
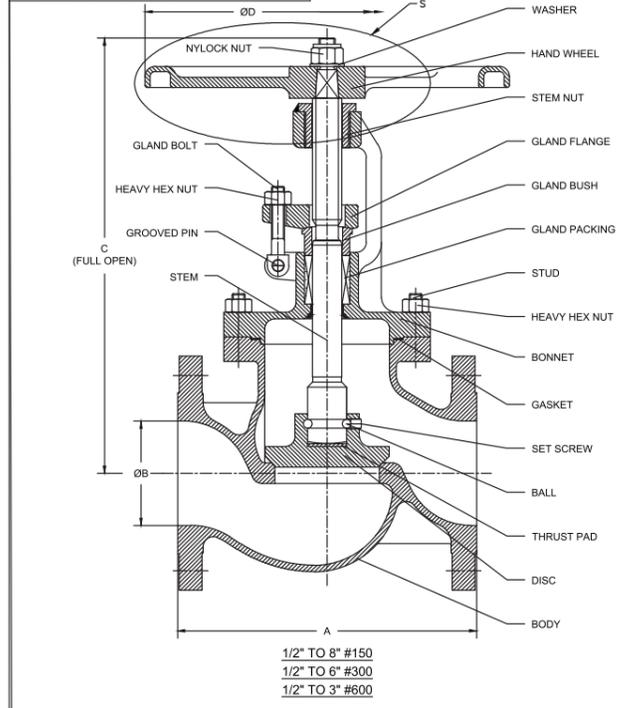
## EXPLODED VIEW OF GLOBE VALVE



# GENERAL ASSEMBLY

**DESIGN SPECIFICATIONS**

GENERAL VALVE DESIGN	ASME B16.34 / API 623 / BS 1873
PRESSURE TEMPERATURE RATING	ASME B16.34
WALL THICKNESS*	ASME B16.34 / API 623 / BS 1873
FLANGE DESIGN	ASME B16.5
BUTT WELD END DESIGN	ASME B16.25
FACE TO FACE DIMENSION	ASME B16.10
END TO END DIMENSION	ASME B16.10
MATERIALS	ASTM
VALVE TESTING	API 598
* GENERAL VALVE DESIGN AND WALL THICKNESS STANDARD CAN BE SELECTED BY THE PURCHASER	



<b>DETAIL VIEW</b> DETAIL-S 8" #150, 6" #300, 4" #600 & 3" #900	<b>SEAT OPTIONS</b>	
<b>END OPTIONS</b>	<b>EXECUTION OPTIONS</b>	

# DIMENSIONS

SIZE	INCH		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm	
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24					
A	INCH	4.25	4.62	5.00	6.50	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50	31.00	36.00	37.00	38.50	51.00				
	mm	--	--	117.3	127.0	165.1	203.2	215.9	241.3	292.1	406.4	495.3	622.3	698.5	787.4	914.4	939.8	977.9	1295.4			
A1	INCH	--	--	5.00	6.50	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50	31.00	36.00	37.00	38.50	51.00				
	mm	--	--	127.0	165.1	203.2	215.9	241.3	292.1	406.4	495.3	622.3	698.5	787.4	914.4	939.8	977.9	1295.4				
A2	INCH	--	--	5.50	7.00	8.50	9.00	10.00	12.00	16.50	20.00	25.00	28.00	31.50	36.50	37.50	39.00	51.50				
	mm	--	--	139.7	177.8	215.9	228.6	254.0	304.8	419.1	508.0	635.0	711.2	800.1	927.1	952.5	990.6	1308.1				
ØB	INCH	0.5	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25				
	mm	13	20	25	38	51	64	76	102	152	203	254	305	337	387	438	489	591				
C	INCH	8.2	8.2	9.8	11.0	11.0	13.2	13.8	16.9	22.0	25.0	36.9	39.7	50.2	57.1	60.0	65.0	67.7				
	mm	207	207	249	279	279	335	350	430	563	635	938	1008	1275	1450	1525	1650	1720				
ØD	INCH	5.0	5.0	5.0	8.0	8.0	10.0	10.0	14.0	18.0	18.0	26.0	26.0	BGO	BGO	BGO	BGO	BGO				
	mm	127	127	127	203	203	254	254	356	457	457	660	660	BGO	BGO	BGO	BGO	BGO				
RTJ Groove Number	INCH	--	--	15	19	22	25	29	36	43	48	52	56	59	64	68	72	76				
ØE	INCH	--	--	1.875	2.562	3.250	4.000	4.500	5.875	7.625	9.750	12.000	15.000	15.625	17.875	20.375	22.000	26.500				
	mm	--	--	47.63	65.07	82.55	101.60	114.30	149.23	193.68	247.65	304.80	381.00	396.88	454.03	517.53	558.80	673.10				

SIZE	INCH		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm	
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24					
A	INCH	6.00	7.00	8.00	9.00	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00	33.00	37.50	38.50	40.00	53.00				
	mm	152.4	177.8	203.2	228.6	266.7	292.1	317.5	355.6	444.5	558.8	622.3	711.2	838.2	952.5	977.9	1016.0	1346.2				
A1	INCH	--	--	8.00	9.00	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00	33.00	37.50	38.50	40.00	53.00				
	mm	--	--	203.2	228.6	266.7	292.1	317.5	355.6	444.5	558.8	622.3	711.2	838.2	952.5	977.9	1016.0	1346.2				
A2	INCH	--	--	8.62	9.62	11.12	12.12	13.12	14.62	18.12	22.62	25.12	28.62	33.62	38.12	39.12	40.75	53.88				
	mm	--	--	218.9	244.3	284.4	307.8	333.2	371.3	460.2	574.5	638.0	726.9	853.9	968.2	993.6	1035.1	1368.6				
ØB	INCH	0.5	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	13.25	15.25	17.00	19.00	23.00				
	mm	13	20	25	38	51	64	76	102	152	203	254	305	337	387	432	483	584				
C	INCH	8.2	8.2	9.8	11.2	11.2	13.2	13.8	17.9	22.2	25.0	36.9	39.7	54.1	58.1	62.4	70.5	74.2				
	mm	207	207	249	285	285	335	350	454	563	635	938	1008	1375	1475	1585	1790	1885				
ØD	INCH	5.0	5.0	5.0	8.0	8.0	10.0	10.0	14.0	18.0	18.0	26.0	26.0	BGO	BGO	BGO	BGO	BGO				
	mm	127	127	127	203	203	254	254	356	457	457	660	660	BGO	BGO	BGO	BGO	BGO				
RTJ Groove Number	INCH	--	--	--	--	23	26	30	37	45	49	53	57	61	65	69	73	77				
ØE	INCH	--	--	--	--	3.250	4.000	4.625	5.875	8.312	10.625	12.750	15.000	16.500	18.500	21.000	23.000	27.250				
	mm	--	--	--	--	82.55	101.60	117.28	149.23	211.12	269.88	323.85	381.00	419.10	469.90	533.40	584.20	692.15				

SIZE	INCH		mm		mm		mm		mm		mm		mm	
	2	3	4	6	8	10	12	14	16					
A	INCH	11.50	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00				
	mm	292.1	355.6	431.8	558.8	660.4	787.4	838.2	889.0	990.6				
A1	INCH	11.50	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00				
	mm	292.1	355.6	431.8	558.8	660.4	787.4	838.2	889.0	990.6				
A2	INCH	11.62	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12				
	mm	295.1	358.6	434.8	561.8	663.4	790.4	841.2	892.0	993.6				
ØB	INCH	2.00	3.00	4.00	6.00	7.87	9.75	11.75	12.87	14.75				
	mm	51	76	102	152	200	248	298	327	375				
C	INCH	14.5	16.2	18.2	27.7	34.4	42.0	50.0	55.3	62.0				
	mm	368	411	462	704	875	1067	1270	1405	1575				
ØD	INCH	10.0	14.0	18.0	20.0	26.0	BGO	BGO	BGO	BGO				
	mm	254	356	458	508	660	BGO	BGO	BGO	BGO				
RTJ Groove Number	INCH	23	30	37	45	49	53	57	61	65				
ØE	INCH	3.250	4.625	5.875	8.312	10.625	12.750	15.000	16.500	18.500				
	mm	82.55	117.28	149.23	211.12	269.88	323.85	381.00	419.10	469.90				

SIZE	INCH		mm		mm		mm		mm		mm	
	2	3	4	6	8	10	12	14	16			
A	INCH	14.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50		
	mm	368.3	381.0	457.2	609.6	736.6	838.2	965.2	1028.7	1130.3		
A1	INCH	14.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50		
	mm	368.3	381.0	457.2	609.6	736.6	838.2	965.2	1028.7	1130.3		
A2	INCH	14.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88		
	mm	371.3	384.0	463.2	612.3	739.6	841.2	968.2	1038.4	1140.0		
ØB	INCH	1.87	2.87	3.87	5.75	7.50	9.37	11.12	12.25	14.00		
	mm	48	73	92	146	191	238	282	311	356		
C	INCH	20.4	24.0	28.0	32.9	42.0	53.0	61.1	68.1	74.4		
	mm	517	610	712	836	1067	1346	1552	1730	1890		
ØD	INCH	14.0	18.0	20.0	26.0	BGO	BGO	BGO	BGO	BGO		
	mm	356	458	508	660	BGO	BGO	BGO	BGO	BGO		
RTJ Groove Number	INCH	24	31	37	45	49	53	57	62	66		
ØE	INCH	3.750	4.875	5.875	8.312	10.625	12.750	15.000	16.500	18.500		
	mm	95.25	123.83	149.23	211.12	269.88	323.85	381.00	419.10	469.90		

SIZE	INCH		mm		mm		mm		mm		
	2	3	4	6	8	10	12				
A	INCH	14.50	18.50	21.50	27.75	32.75	39.00	44.50			
	mm	368.3	469.9	546.1	704.9	831.9	990.6	1130.3			
A1	INCH	14.50	18.50	21.50	27.75	32.75	39.00	44.50			
	mm	368.3	469.9	546.1	704.9	831.9	990.6	1130.3			
A2	INCH	14.62	18.62	21.62	28.00	33.13	39.38	45.12			
	mm	371.3	472.9	549.1	711.2	841.5	1000.3	1146.1			
ØB	INCH	1.87	2.75	3.62	5.37	7.00	8.75	10.37			
	mm	48	70	92	136	178	222	263			
C	INCH	20.4	26	29.8	40.2	52.0	65.2	78.0			
	mm	517	660	756	1021	1321	1656	1981			
ØD											

# BILL OF MATERIALS

PART NAME	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
BODY	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
SEAT	WCB+13% Cr	WCC+13% Cr	WC6+13% Cr	WC9+ST6	A 217-C5+ST6	C9+ST6	C12+ST6	A 352-LCB+SS 304	LCC+SS 304
DISC	WCB+13% Cr	WCC+13% Cr	WC6+13% Cr	WC9+ST6	A 217-C5+ST6	C9+ST6	C12+ST6	A 352-LCB+SS 304	LCC+SS 304
THRUST PAD	SS 410		SS 410		SS 410			SS 304	
STEM COLLAR	SS 410		SS 410		SS 410			SS 304	
RETAINER	A 217-CA15		A 217-CA15		A 217-CA15			A 351-CF8	
BALL	SS 304		SS 304		SS 304			SS 304	
SET SCREW	SS 304		SS 304		SS 304			SS 304	
STEM	A 479-410-1		A 479-410-1		A 479-410-1			A 276-304	
STUD	A 193-B7		A 193-B16		A 193-B7			A 320-L7	
HEAVY HEX NUT	A 194-2H		A 194-7		A 194-2H			A 194-7	
GASKET	SS 316+GRAPHITE		SS 316+GRAPHITE		SS 316+GRAPHITE			PTFE	
BONNET	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
GLAND PACKING	GRAPH+BR.GRAPH		GRAPH+BR.GRAPH		GRAPH+BR.GRAPH			BRIADED PTFE	
GLAND BUSH	SS 410		SS 410		SS 410			SS 304	
GLAND FLANGE	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
STEM NUT	AB-1 / A 439-D2		AB-1 / A 439-D2		AB-1 / A 439-D2			AB-1 / A 439-D2	
WASHER	C 40		C 40		C 40			SS 304	
NYLOCK NUT	A 194-2H		A 194-2H		A 194-2H			SS 304	
HAND WHEEL	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON			CAST STEEL/DUCTILE IRON	
HAMMER	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON			CAST STEEL/DUCTILE IRON	
HAMMER HAND WHEEL	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON			CAST STEEL/DUCTILE IRON	
PARALLEL KEY	C 40		C 40		C 40			C 40	
HAND WHEEL NUT	C 45 (BLACKODISED)		C 45 (BLACKODISED)		C 45 (BLACKODISED)			C 45 (BLACKODISED)	
GROOVED PIN	C 40		C 40		C 40			SS 304	
GLAND BOLT	A 307-B / SS 410		A 307-B / SS 410		A 307-B / SS 410			SS 304	
GREASE NIPPLE	SS 304		SS 304		SS 304			SS 304	
STEM LOCK	SS 304		SS 304		SS 304			SS 304	
HEX BOLT	SS 304		SS 304		SS 304			SS 304	
THRUST BEARING	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
SHCS	SS 304		SS 304		SS 304			SS 304	
BEARING HOUSING	A 216-WCB		A 216-WCB		A 216-WCB			A 352-LCB	
GEAR BOX	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
AIR CYLINDER ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
ELECTRICAL ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL			COMMERCIAL	
RTJ RING	SS 410		SS 410		SS 410			SS 304	

PART NAME	A 351-CF8	CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
BODY	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
SEAT	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
DISC	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
THRUST PAD	SS 304	SS 316	SS 304L	316L	SS 317	317L	SS 347	A 20
STEM COLLAR	SS 304	SS 316	SS 304L	316L	SS 317	317L	SS 347	A 20
RETAINER	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
BALL	SS 304	SS 316	RETAINER TYPE DESIGN ONLY AVAILABLE					
SET SCREW	SS 304	SS 316	RETAINER TYPE DESIGN ONLY AVAILABLE					
STEM	A 276-304	A 276-316	A 276-304L	316L	A 276-317	317L	A 276-347	A 20
STUD	A 193-B8		A 193-B8		A 193-B8		A 193-B8	A 193-B8M
HEX NUT	A 194-8		A 194-8		A 194-8		A 194-8	A 194-8M
GASKET	PTFE		PTFE		PTFE		PTFE	
BONNET	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
GLAND PACKING	BRIADED PTFE		BRIADED PTFE		BRIADED PTFE		BRIADED PTFE	
GLAND BUSH	A 276-304	A 276-316	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
GLAND FLANGE	A 351-CF8	A 351-CF8M	A 351-CF8M		A 351-CF8M		A 351-CF8M	
STEM NUT	AB-1 / A 439-D2		AB-1 / A 439-D2		AB-1 / A 439-D2		AB-1 / A 439-D2	
WASHER	SS 304		SS 304		SS 304		SS 304	
NYLOCK NUT	SS 304		SS 304		SS 304		SS 304	
HAND WHEEL	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON	
HAMMER	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON	
HAMMER HAND WHEEL	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON	
PARALLEL KEY	C 40		C 40		C 40		C 40	
HAND WHEEL NUT	C 45 (BLACKODISED)		C 45 (BLACKODISED)		C 45 (BLACKODISED)		C 45 (BLACKODISED)	
GROOVED PIN	SS 304		SS 304		SS 304		SS 304	SS 316
GLAND BOLT	SS 304		SS 304		SS 304		SS 304	SS 316
GREASE NIPPLE	SS 304		SS 304		SS 304		SS 304	
STEM LOCK	SS 304		SS 304		SS 304		SS 304	
HEX BOLT	SS 304		SS 304		SS 304		SS 304	
THRUST BEARING	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
SHCS	SS 304		SS 304		SS 304		SS 304	
BEARING HOUSING	A 216-WCB		A 216-WCB		A 216-WCB		A 216-WCB	
GEAR BOX	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
AIR CYLINDER ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
ELECTRICAL ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
RTJ RING	SS 304	SS 316	SS 304L	SS 316L	SS 317	SS 317L	SS 347	A 20

PART NAME	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
BODY	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
SEAT	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
DISC	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
THRUST PAD	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
STEM COLLAR	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
RETAINER	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
BALL	RETAINER TYPE DESIGN ONLY AVAILABLE		RETAINER TYPE DESIGN ONLY AVAILABLE		RETAINER TYPE DESIGN ONLY AVAILABLE		RETAINER TYPE DESIGN ONLY AVAILABLE	
SET SCREW	RETAINER TYPE DESIGN ONLY AVAILABLE		RETAINER TYPE DESIGN ONLY AVAILABLE		RETAINER TYPE DESIGN ONLY AVAILABLE		RETAINER TYPE DESIGN ONLY AVAILABLE	
STEM	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
STUD	A 193-B8M		A 193-B8M		A 193-B8M		A 193-B8M	
HEX NUT	A 194-8M		A 194-8M		A 194-8M		A 194-8M	
GASKET	PTFE		PTFE		PTFE		PTFE	
BONNET	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
GLAND PACKING	BRIADED PTFE		BRIADED PTFE		BRIADED PTFE		BRIADED PTFE	
GLAND BUSH	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
GLAND FLANGE	A 351-CF8M		A 351-CF8M		A 351-CF8M		A 351-CF8M	
STEM NUT	AB-1 / A 439-D2		AB-1 / A 439-D2		AB-1 / A 439-D2		AB-1 / A 439-D2	
WASHER	SS 304		SS 304		SS 304		SS 304	
NYLOCK NUT	SS 304		SS 304		SS 304		SS 304	
HAND WHEEL	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON	
HAMMER	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON	
HAMMER HAND WHEEL	CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON		CAST STEEL/DUCTILE IRON	
PARALLEL KEY	C 40		C 40		C 40		C 40	
HAND WHEEL NUT	C 45 (BLACKODISED)		C 45 (BLACKODISED)		C 45 (BLACKODISED)		C 45 (BLACKODISED)	
GROOVED PIN	SS 316		SS 316		SS 316		SS 276-316	
GLAND BOLT	SS 316		SS 316		SS 316		SS 316	
GREASE NIPPLE	SS 304		SS 304		SS 304		SS 304	
STEM LOCK	SS 304		SS 304		SS 304		SS 304	
HEX BOLT	SS 304		SS 304		SS 304		SS 304	
THRUST BEARING	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
SHCS	SS 304		SS 304		SS 304		SS 304	
BEARING HOUSING	A 351-CF8		A 351-CF8		A 351-CF8		A 351-CF8	
GEAR BOX	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
AIR CYLINDER ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
ELECTRICAL ACTUATOR	COMMERCIAL		COMMERCIAL		COMMERCIAL		COMMERCIAL	
RTJ RING	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625

# TECHNICAL DATAS

CLASS 150									
SIZE		WEIGHT		THRUST		TORQUE		Cv	Kv
INCH	mm	kgs	lbs	KN	lbs	Nm	lbs-ft	Usgpm	cmph
1/2"	15	5	11.0	3.1	697.0	4.0	2.9	2.5	2.2
3/4"	20	5	11.0	3.1	697.0	4.0	2.9	5.9	5.1
1"	25	6.5	14.3	3.1	697.0	4.0	2.9	9.2	8
1 1/2"	40	15	33.1	6.5	1461.0	13.1	9.4	21.2	18.3
2"	50	15.5	34.2	8.5	1911.0	17.1	12.2	38.1	33
2 1/2"	65	25	55.1	11.8	2653.0	26.7	19.1	60	51.9
3"	80	25.5	56.2	15.6	3507.0	40.6	29.0	84.6	73.2
4"	100	42.5	93.7	25.6	5755.0	73.1	52.2	152.4	131.8
6"	150	79	174.1	48.6	10926.0	150.6	107.6	338.5	292.8
8"	200	132.5	292.0	80.9	18187.0	283.3	202.4	603.7	522.2
10"	250	185	407.7	98.8	22211.0	395.0	282.1	722	624.6
12"	300	270	595.1	144.3	32440.0	576.9	412.1	1108	958.5
14"	350	475	1046.9	174.8	39297.0	784.0	560.0	1345.1	1163.6
16"	400	655	1443.6	235.9	53032.0	1296.2	925.9	1784.5	1543.7
18"	450	825	1818.3	299.6	67353.0	1793.4	1281.0	2297.5	1987.5
20"	500	1055	2325.2	369.0	82954.0	2389.4	1706.7	2888.2	2498.4
24									



Gr.CW12MW



Gr.CZ100