



BILL OF MATERIALS

NO.	PARTS NAME	MATERIAL	NO.	PARTS NAME	MATERIAL
1	BODY STUD	ASTM A320 L7M+ZN	19	STEM	17-4PH
2	BODY NUT	ASTM A194 7M+ZN	20	BEARING	C.S.+PTFE
3	BONNET	ASTM A350 LF2 CL.1	21	WASHER	PTFE
4	GASKET	GRAPHITE+316S.S.	22	GASKET	GRAPHITE
5	BODY O-RING	VITON-GLT-AED	23	PACKING BOX	ASTM A350 LF2 CL.1
6	BOLT	ASTM A320 L7M+ZN	24	STEM O-RING	VITON-GLT-AED
7	TRUNNION SHAFT	ASTM A350 LF2 CL.1	25	BOLT	ASTM A320 L7M+ZN
8	BODY	ASTM A350 LF2 CL.1	26	TOP FLANGE	ASTM A350 LF2 CL.1
9	BALL	ASTM A182 F51	27	GASKET	GRAPHITE
10	DRAIN	SS316	28	KEY	C.S.
11	BEARING	C.S.+PTFE	29	GEAR	ASSEMBLY
12	WASHER	PTFE	30	ALIGNMENT PIN	C.S.
13	SEAT INSERT	PEEK	31	ANTISTATIC DEVICE	S.S.316
14	SEAT SPRING	INCONEL X-750	32	STEM INJECTION	S.S.316
15	SEAT RING	ASTM A182 F316	33	VENT	S.S.316
16	SEAT FIRESAFE PACKING	CARBON FIBRE GRAPHITE	34	SEAT INJECTION	S.S.316
17	SEAT O-RING	VITON-GLT-AED	35	CHECK VALVE	S.S.316
18	O-RING	VITON-GLT-AED			

PERFORMANCE STANDARDS

NOMINAL CL (PN)	900LB	STANDARD
SHELL TEST PRESSURE	22.5 MPa / 3265 Psi	API 598 with API 6D (Test duration)
SEAL TEST PRESSURE	16.5 MPa / 2394 Psi	API 598
AIR TEST PRESSURE	0.6 MPa / 87 Psi	API 598 & ASME B16.34
TEMPERATURE RANGE	-46 to +260 °C	-50 to 500 °F
SUITABLE MEDIUM	WATER/OIL/NATURAL GAS ETC	
FUGITIVE EMISSIONS(FE) TESTING	ISO 15848-2	
JET FUEL COMPLIANCE	Suitable for Jet Fuel service	

DESIGN STANDARDS

PRESSURE RATING	ANSI Class 900	VALVE TYPE	TRUNNION MOUNTED
DESIGN	API 6D	FIRESAFE	API 607
FACE TO FACE DIMENSION	ASME B16.10(RTJ), API-6D	TEST & INSPECTION	API 6D
END CONNECTION	ASME B16.5-RF, SF 3.2-6.3Ra	MARKING	MSS SP-25
ISO MOUNT	5211 TOP FLANGE	NACE	MR 01-75 (Internal Wetted parts)
CERTIFICATION	EN10204, Type 3.1	MIN BODY WALL THICKNESS	ASME B16.34
PAINT	SA 2.1/2 BLASTING, EPOXY PRIMER + POLYURETHANE TOP COAT, DFT 150µm, RAL 7035		

DESCRIPTION

100MM CLASS 900# TRUNNION BALL VALVE, A350 LF2 CL.1 FORGED BODY, FULL PORT, 3-PIECE, DBB, SPE SEATS, F51 BALL, F316 SEAT RING, PEEK INSERT, 17-4 PH STEM, SINGLE PISTON EFFECT, VITON B AED SEALS, GRAPHITE GASKET, INCONEL X-750 SPRINGS, A320 L7M BOLTS (HDG), 316 SS VENT/DRAIN, LOCKABLE GEAR OPERATED.

SIZE	A	B	C	D (MIN)	E	F	REF W	REF H	L	N-ØD	BREAK TORQUE NO SAFETY(NM)	PRODUCT CODE
4"-900LB	292	44.5	181	100	235	7.92	450	250	460	8-Ø32	712	BFT3L90XAKVRLFNG6D100