

Item No.	Unit 1 (Total Item)				Unit 2 (Equipment Code)				Unit 3 (Component Code)				Value Description	Manufacturer / Country of Origin	Design Condition	Fluid Medium	Valve Type	Nominal Valve Size	Valve Rating	Body Material	End Connection	Valve Operation	Reference P&ID	Remarks
	Qty	F ₁	F ₂	F ₃	Qty	F ₁	F ₂	F ₃	Qty	F ₁	F ₂	F ₃												
2143	0	0	0	0	0	0	0	0	0	0	0	0	0	210	WATER	GATE VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE	
2144	0	0	0	0	0	0	0	0	0	0	0	0	210	WATER	BLOWDOWN VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2145	0	0	0	0	0	0	0	0	0	0	0	0	210	WATER	GATE VALVE	40	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2146	0	0	0	0	0	0	0	0	0	0	0	0	210	WATER	BLOWDOWN VALVE	40	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2147	0	0	0	0	0	0	0	0	0	0	0	0	45	WATER	BALL VALVE	25	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2148	0	0	0	0	0	0	0	0	0	0	0	0	45	WATER	BALL VALVE	25	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2149	0	0	0	0	0	0	0	0	0	0	0	0	45	WATER	GLOBE VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2151	0	0	0	0	0	0	0	0	0	0	0	0	45	WATER	GLOBE VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2152	0	0	0	0	0	0	0	0	0	0	0	0	45	WATER	GLOBE VALVE	15	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2153	0	0	0	0	0	0	0	0	0	0	0	0	45	WATER	GLOBE VALVE	15	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2154	0	0	0	0	0	0	0	0	0	0	0	0	45	WATER	GLOBE VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2155	0	0	0	0	0	0	0	0	0	0	0	0	45	INSTRUMENT AIR	GLOBE VALVE	25	150	SS316	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2156	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	GLOBE VALVE	15	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2157	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	GLOBE VALVE	15	300	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2158	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	GLOBE VALVE	30	300	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2159	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	GLOBE VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2161	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	TURBINE FLOWMETER	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2162	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	GLOBE VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2163	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	GLOBE VALVE	50	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2164	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	BALL VALVE	25	150	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2165	0	0	0	0	0	0	0	0	0	0	0	0	45	FUEL OIL	BALL VALVE	25	110	CARBON STEEL	SOCKET WELDED	MANUALLY BY HANDWHEEL HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL HANDLE		
2169	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BUTTERFLY VALVE	450	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2167	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BUTTERFLY VALVE	450	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2168	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	CHECK VALVE	250	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2169	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH RUBBER LINED	WAFER	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2170	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	CHECK VALVE	250	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2171	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2172	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	CHECK VALVE	250	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2173	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH RUBBER LINED	WAFER	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2174	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	CHECK VALVE	250	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2175	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		
2176	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2177	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2178	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2179	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2180	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2181	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2182	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2183	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BALL VALVE	15	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDLE		
2184	0	0	0	0	0	0	0	0	0	0	0	0	30	RAW SEAWATER	BUTTERFLY VALVE	350	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TUB96L3OFF-CO04MPFD004	MANUALLY BY HANDWHEEL		