Item No.	Valve Number (KKS)									Valve 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
	Level 0 (Total Plant)	Level 1 (System Code)			Level 2 (Equipment Code)			Level 3 (Component Code)				Press	Temp									
	G	F_3	$F_1F_2F_3$	F_4	A_1A_2	A_3	A_4	B_1B_2	B_3			(barg)	(°C)	(-)	(See Item 2.6 of Instrn Sht)	(DN)	(LB)	(-)	(See Item 2.10 of Instrn Sht)	(See Item 2.11 of Instrn Sht)		
2353	0	0	GBK	20	AA	310	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER C INLET PI ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2354	0	0	GBK	20	AA	311	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER C OUTLET PI ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2355	0	0	GBK	20	AA	312	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER D INLET PI ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2356	0	0	GBK	20	AA	313	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER D OUTLET PI ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2357	0	0	GBK	20	AA	314	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER A OUTLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2358	0	0	GBK	20	AA	315	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER A INLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2359	0	0	GBK	20	AA	316	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER B OUTLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2360	0	0	GBK	20	AA	317	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER B INLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2361	0	0	GBK	20	AA	318	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER C OUTLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2362	0	0	GBK	20	AA	319	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER C INLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2363	0	0	GBK	20	AA	320	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER D OUTLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2364	0	0	GBK	20	AA	321	N/A	N/A	N/A	AUTO SELF CLEANING STRAINER D INLET PDS ROOT VALVE	AMIAD/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	DUPLEX SS	THREADED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0008	
2365	0	0	GBK	30	AA	101	N/A	N/A	N/A	UF SKID A INLET VALVE 1	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TJB56-L3-OFF-C-GCA-M-PID-0009	
2366	0	0	GBK	30	AA	201	N/A	N/A	N/A	UF SKID A INLET VALVE 2	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	AUTOMATIC BY ELECTRIC MOTOR ACTUATOR, WITH POSITIONER	TJB56-L3-OFF-C-GCA-M-PID-0009	
2367	0	0	GBK	30	AA	102	N/A	N/A	N/A	UF SKID A INLET SAMPLE VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2368	0	0	GBK	30	AA	202	N/A	N/A	N/A	UF SKID A OUTLET VALVE	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2369	0	0	GBK	30	AA	103	N/A	N/A	N/A	UF SKID A OUTLET CHECK VALVE	TIANJIN JINGTONG/CHINA	3,5	30	SEAWATER	CHECK VALVE	250	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	-	TJB56-L3-OFF-C-GCA-M-PID-0009	
2370	0	0	GBK	30	AA	203	N/A	N/A	N/A	UF SKID A AIR INLET VALVE	BRAY/CHINA	3,5	30	COMPRESSED AIR	BUTTERFLY VALVE	80	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2371	0	0	GBK	30	AA	108	N/A	N/A	N/A	UF SKID A AIR INLET CHECK VALVE	TIANJIN JINGTONG/CHINA	3,5	30	COMPRESSED AIR	CHECK VALVE	80	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	-	TJB56-L3-OFF-C-GCA-M-PID-0009	
2372	0	0	GBK	30	AA	204	N/A	N/A	N/A	UF SKID A CIP INLET VALVE	BRAY/CHINA	3,5	30	CHEMICAL CLEANING WATER	BUTTERFLY VALVE	125	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2373	0	0	GBK	30	AA	205	N/A	N/A	N/A	UF SKID A BACKWASH WATER INLET VALVE 2	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	200	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2374	0	0	GBK	30	AA	104	N/A	N/A	N/A	UF SKID A BACKWASH WATER INLET VALVE 1	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	200	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TJB56-L3-OFF-C-GCA-M-PID-0009	
2375	0	0	GBK	30	AA	206	N/A	N/A	N/A	UF SKID A PERMEATE WATER BACKFLOW VALVE	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	80	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2376	0	0	GBK	30	AA	105	N/A	N/A	N/A	UF SKID A PERMEATE WATER BACKFLOW SAMPLE VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2377	0	0	GBK	30	AA	207	N/A	N/A	N/A	UF SKID A CIP OUTLET VALVE	BRAY/CHINA	3,5	30	CHEMICAL CLEANING WATER	BUTTERFLY VALVE	80	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2378	0	0	GBK	30	AA	106	N/A	N/A	N/A	UF SKID A CIP OUTLET VALVE	BRAY/CHINA	3,5	30	CHEMICAL CLEANING WATER	BUTTERFLY VALVE	80	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2379	0	0	GBK	30	AA	801	N/A	N/A	N/A	UF SKID A TOP DRAIN VALVE 1	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2380	0	0	GBK	30	AA	802	N/A	N/A	N/A	UF SKID A TOP DRAIN VALVE 2	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TJB56-L3-OFF-C-GCA-M-PID-0009	
2381	0	0	GBK	30	AA	803	N/A	N/A	N/A	UF SKID A BOTTOM DRAIN VALVE	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TJB56-L3-OFF-C-GCA-M-PID-0009	
2382	0	0	GBK	30	AA	804	N/A	N/A	N/A	UF SKID A CONCENTRATION DRAIN VALVE	TIANJIN JINGTONG/CHINA	3,5	30	SEAWATER	DIAPHRAGM VALVE	50	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2383	0	0	GBK	30	AA	109	N/A	N/A	N/A	UF SKID A PERMEATE WATER SAMPLE VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2384	0	0	GBK	30	AA	301	N/A	N/A	N/A	UF SKID A INLET PIT ROOT VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2385	0	0	GBK	30	AA	302	N/A	N/A	N/A	UF SKID A CONCENTRATION PIT ROOT VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2386	0	0	GBK	30	AA	303	N/A	N/A	N/A	UF SKID A OUTLET PIT ROOT VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2387	0	0	GBK	30	AA	304	N/A	N/A	N/A	UF SKID A OUTLET TURBIDIMETER ROOT VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	15	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2388	0	0	GBK	30	AA	901	N/A	N/A	N/A	UF SKID A OUTLET VENT VALVE	CEPEX/CHINA	3,5	30	AIR	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2389	0	0	GBK	30	AA	902	N/A	N/A	N/A	UF SKID A OUTLET VENT VALVE	CEPEX/CHINA	3,5	30	AIR	AUTOMATIC AIR RELEASE VALVE	25	PN10	UPVC	UNION	-	TJB56-L3-OFF-C-GCA-M-PID-0009	
2390	0	0	GBK	30	AA	903	N/A	N/A	N/A	UF SKID A TOP VENT VALVE	CEPEX/CHINA	3,5	30	AIR	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	
2391	0	0	GBK	30	AA	904	N/A	N/A	N/A	UF SKID A TOP VENT VALVE	CEPEX/CHINA	3,5	30	AIR	AUTOMATIC AIR RELEASE VALVE	25	PN10	UPVC	UNION	-	TJB56-L3-OFF-C-GCA-M-PID-0009	
2392	0	0	GBK	30	AA	121	N/A	N/A	N/A	UF SKID B INLET VALVE 1	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDWHEEL	TJB56-L3-OFF-C-GCA-M-PID-0009	
2393	0	0	GBK	30	AA	221	N/A	N/A	N/A	UF SKID B INLET VALVE 2	BRAY/CHINA	3,5	30	SEAWATER	BUTTERFLY VALVE	250	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	AUTOMATIC BY ELECTRIC MOTOR ACTUATOR, WITH POSITIONER	TJB56-L3-OFF-C-GCA-M-PID-0009	
2394	0	0	GBK	30	AA	122	N/A	N/A	N/A	UF SKID B INLET SAMPLE VALVE	CEPEX/CHINA	3,5	30	SEAWATER	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TJB56-L3-OFF-C-GCA-M-PID-0009	