

Item No.	Unit 1 (Total Meter)				Unit 2 (Equipment Code)				Unit 3 (Component Code)			Value Description	Manufacturer / Country of Origin	Design Condition	Fluid Medium	Valve Type	Nominal Valve Size (DN)	Valve Rating (LB)	Body Material	End Connection	Valve Operation	Reference P&ID	Remarks	
	G	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>	A-A	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	B-B	B <sub>1</sub>	B <sub>2</sub>													Press ( barg)
3193	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	SLUDGE THICKENER OUTLET VALVE 2	BRAYCHINA	2.5	30	SLUDGE	BUTTERFLY VALVE	100	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000	
3194	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A INLET VALVE	BRAYCHINA	2.5	30	SLUDGE	BUTTERFLY VALVE	65	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0000		
3195	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A OUTLET CHECK VALVE	TIANJIN JINTONGCHINA	3.0	30	SLUDGE	CHECK VALVE	65	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	-	TUBESL30FF-CG04MHP0000		
3196	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A OUTLET VALVE	BRAYCHINA	3.0	30	SLUDGE	BUTTERFLY VALVE	65	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000		
3197	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A OUTLET SAFETY VALVE	CEPCOCHINA	3.0	30	SLUDGE	SAFETY VALVE	32	PN10	UPVC	FLANGED	-	TUBESL30FF-CG04MHP0000		
3198	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B INLET VALVE	BRAYCHINA	2.5	30	SLUDGE	BUTTERFLY VALVE	65	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0000		
3199	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B OUTLET CHECK VALVE	TIANJIN JINTONGCHINA	3.0	30	SLUDGE	CHECK VALVE	65	PN10	CARBON STEEL WITH RUBBER LINED	FLANGED	-	TUBESL30FF-CG04MHP0000		
3200	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B OUTLET VALVE	CEPCOCHINA	3.0	30	SLUDGE	BUTTERFLY VALVE	65	PN10	CARBON STEEL WITH POLYESTER COATING	WAFER	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000		
3201	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B OUTLET SAFETY VALVE	CEPCOCHINA	3.0	30	SLUDGE	SAFETY VALVE	32	PN10	UPVC	FLANGED	-	TUBESL30FF-CG04MHP0000		
3202	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE THICKENER OUTLET FLUSHING WATER VALVE	BRAYCHINA	2.5	30	SERVICE WATER	BALL VALVE	25	PN10	SS316	FLANGED	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000		
3203	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE THICKENER OUTLET FLUSHING WATER CHECK VALVE	TIANJIN JINTONGCHINA	2.5	30	SERVICE WATER	CHECK VALVE	25	PN10	SS316	WAFER	-	TUBESL30FF-CG04MHP0000		
3204	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A INLET FLUSHING WATER VALVE	BRAYCHINA	3.0	30	SERVICE WATER	BALL VALVE	25	PN10	SS316	FLANGED	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000		
3205	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A OUTLET FLUSHING WATER VALVE	TIANJIN JINTONGCHINA	3.0	30	SERVICE WATER	CHECK VALVE	25	PN10	SS316	WAFER	-	TUBESL30FF-CG04MHP0000		
3206	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B INLET FLUSHING WATER VALVE	BRAYCHINA	3.0	30	SERVICE WATER	BALL VALVE	25	PN10	SS316	FLANGED	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000		
3207	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B OUTLET FLUSHING WATER CHECK VALVE	TIANJIN JINTONGCHINA	3.0	30	SERVICE WATER	CHECK VALVE	25	PN10	SS316	WAFER	-	TUBESL30FF-CG04MHP0000		
3208	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A OUTLET DRAIN VALVE	CEPCOCHINA	3.0	30	SLUDGE	BALL VALVE	25	PN10	UPVC	FLANGED	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000		
3209	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B OUTLET DRAIN VALVE	CEPCOCHINA	3.0	30	SLUDGE	BALL VALVE	25	PN10	UPVC	FLANGED	PNEUMATIC ACTUATOR	TUBESL30FF-CG04MHP0000		
3210	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP A OUTLET PRE ROOT VALVE	CEPCOCHINA	3.0	30	SLUDGE	BALL VALVE	25	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0000		
3211	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE PUMP B OUTLET PRE ROOT VALVE	CEPCOCHINA	3.0	30	SLUDGE	BALL VALVE	25	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0000		
3212	0	0	0	0	NA	NA	NA	NA	NA	NA	SLUDGE TREATMENT SYSTEM FLUSHING MAIN PIPE VALVE	BRAYCHINA	2.5	30	SERVICE WATER	BALL VALVE	50	PN10	SS316	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0000		
3213	0	0	0	0	NA	NA	NA	NA	NA	NA	CENTRIFUGAL DEWATERING A OUTLET GATE VALVE	GEACHINA	1.0	30	SLUDGE	GATE VALVE	50	PN10	CARBON STEEL WITH RUBBER LINED	-	AUTOMATIC BY ELECTRIC MOTOR ACTUATOR	TUBESL30FF-CG04MHP0000		
3214	0	0	0	0	NA	NA	NA	NA	NA	NA	CENTRIFUGAL DEWATERING B OUTLET GATE VALVE	GEACHINA	1.0	30	SLUDGE	GATE VALVE	50	PN10	CARBON STEEL WITH RUBBER LINED	-	AUTOMATIC BY ELECTRIC MOTOR ACTUATOR	TUBESL30FF-CG04MHP0000		
3215	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT UNLOADING PUMP INLET VALVE	CEPCOCHINA	2.5	30	COAGULANT SOLUTION	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3216	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT UNLOADING PUMP OUTLET CHECK VALVE	CEPCOCHINA	2.0	30	COAGULANT SOLUTION	CHECK VALVE	50	PN10	UPVC	FLANGED	-	TUBESL30FF-CG04MHP0001		
3217	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT UNLOADING PUMP OUTLET VALVE	CEPCOCHINA	2.0	30	COAGULANT SOLUTION	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3218	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT STORAGE TANK INLET VALVE	CEPCOCHINA	2.0	30	COAGULANT SOLUTION	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3219	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT STORAGE TANK B INLET VALVE	CEPCOCHINA	2.0	30	COAGULANT SOLUTION	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3220	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT STORAGE TANK A FLUSHING VALVE	CEPCOCHINA	2.0	30	SERVICE WATER	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3221	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT STORAGE TANK A GATE VALVE	CEPCOCHINA	2.0	30	SERVICE WATER	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3222	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT STORAGE TANK A GATE VALVE	CEPCOCHINA	2.0	30	COAGULANT SOLUTION	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3223	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT STORAGE TANK B GATE VALVE	CEPCOCHINA	2.0	30	COAGULANT SOLUTION	DMF-RIGID VALVE	50	PN10	UPVC	FLANGED	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3224	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMPS INLET MAIN PIPE VALVE 1	HERSHEYCHINA	2.0	30	COAGULANT SOLUTION	BALL VALVE	50	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3225	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMPS INLET MAIN PIPE VALVE 2	HERSHEYCHINA	2.0	30	COAGULANT SOLUTION	BALL VALVE	50	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3226	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMPS INLET MAIN PIPE CALIBRATION VALVE	HERSHEYCHINA	2.0	30	COAGULANT SOLUTION	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3227	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP A INLET VALVE	HERSHEYCHINA	2.0	30	COAGULANT SOLUTION	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3228	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP A OUTLET VALVE	HERSHEYCHINA	7.0	30	COAGULANT SOLUTION	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3229	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP A OUTLET SAFETY VALVE	HERSHEYCHINA	7.0	30	COAGULANT SOLUTION	SAFETY VALVE	15	PN10	UPVC	UNION	-	TUBESL30FF-CG04MHP0001		
3230	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP B INLET VALVE	HERSHEYCHINA	2.0	30	COAGULANT SOLUTION	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3231	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP B OUTLET VALVE	HERSHEYCHINA	7.0	30	COAGULANT SOLUTION	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3232	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP B OUTLET SAFETY VALVE	HERSHEYCHINA	7.0	30	COAGULANT SOLUTION	SAFETY VALVE	15	PN10	UPVC	UNION	-	TUBESL30FF-CG04MHP0001		
3233	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP C INLET VALVE	HERSHEYCHINA	2.0	30	COAGULANT SOLUTION	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		
3234	0	0	0	0	NA	NA	NA	NA	NA	NA	COAGULANT DOSING PUMP C OUTLET VALVE	HERSHEYCHINA	7.0	30	COAGULANT SOLUTION	BALL VALVE	25	PN10	UPVC	UNION	MANUALLY BY HANDLE	TUBESL30FF-CG04MHP0001		