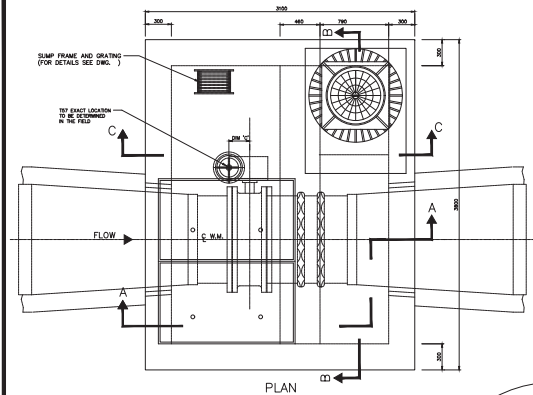
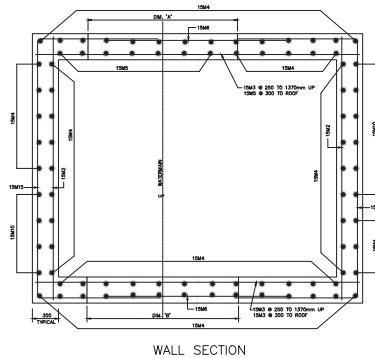
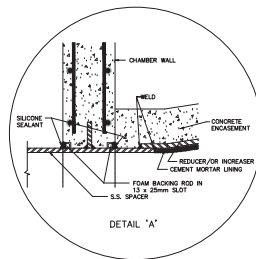
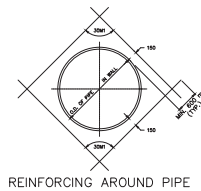




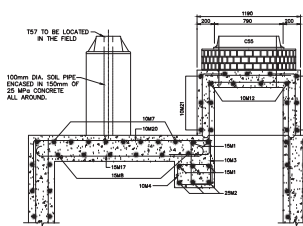
CHAMBER NO.	CH. 'X'	CH. 'Y'	CH. 'Z'	CH. 'V'	CH. 'W'



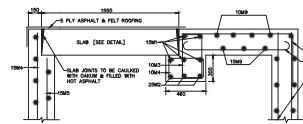
WALL SECTION



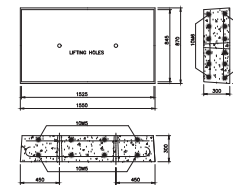
REINFORCING AROUND PIPE



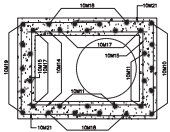
SECTION C-C



SECTION A-A



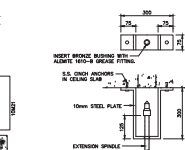
SLAB DETAIL



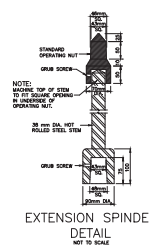
SECTION D-D

CHAMBER NO.	CHAMBER (H)	CHAMBER (V)	SURFACE (H)	SURFACE (V)	COVER LOCATION	DRAIN TYPE	DRAIN DIRECTION	FOR LOCATION REFER TO PLAN NO.	REMARKS

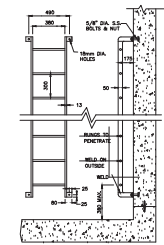
CHAMBERS



SPINDLE GUIDE BRACKET DETAIL



EXTENSION SPINDLE DETAIL



REMOVABLE ALUMINUM LADDER



RUNG DETAIL

NOTES

- ESMP CONCRETE TO BE USED EXCEPT AS NOTED.
- MAXIMUM SIZE OF COARSE AGGREGATE TO BE 50mm OR AS INDICATED.
- COVER TO MAIN REINFORCEMENT TO BE 50mm OR AS INDICATED.
- ALL BAR DIMENSIONS ARE OUT TO OUT.
- BARS TO BE BENT COLD. MINIMUM INSIDE RADIUS TO 4 DIAMETERS.
- ALL CROSSING BARS TO BE WELL WELD.
- ALL REINFORCING STEEL TO BE DEFORMED BILLET-STEEL BARS.
- SPAC. 200 CONFORMING TO C.S.A. STANDARD C30.12M.
- ALL LAPS IN REINFORCING STEEL TO BE AT LEAST 30 DIAMETERS.
- ALL BRCWORK TO BE OF HIGH QUALITY HARD SEWER BRICK. LAD IN FULL MORTAR BED AND JOINTS. PARSED INSIDE AND OUT.
- WATERSTOP (PVC) TO BE PROVIDED AT ALL CONSTRUCTION JOINTS.
- WHERE NECESSARY ADJUST REINFORCING STEEL TO SUIT WATERSTOPS AND OPENINGS.
- PROVIDE SUMP FIT WITH GRATING AND SLOPE FLOOR TO SUMP 10mm/METRE.
- DRAIN OUTLET TO BE LOCATED AT NEAREST POINT TO EXISTING SEWER. IF ELEVATION OF SEWER IS HIGHER THAN CHAMBER FLOOR THE DRAIN MAY BE CLAMPED TO THE WALL BY AN APPROVED METHOD. IF NO SEWER IS AVAILABLE, DRAIN TYPE 'V' AND CONSTRUCT DRAIN TYPE 'V' AND INSTALL PIPE WITH STOPPER AS SHOWN ON DWG.
- DRAIN CONNECTION TO SEWER TO BE MADE BY CONTRACTOR UNLESS OTHERWISE STATED IN THE GENERAL SPECIFICATIONS.
- LADDERS, GRATING AND RAILINGS TO BE ALUMINUM AND OF REMOVABLE TYPE WITH STAINLESS STEEL BOLTS.
- TOP TWO STEPS AND ANY ADDITIONAL STEPS IN THE CHAMBER TO BE OF THE REMOVABLE TYPE.
- CHAMBERS DEEPER THAN 1200mm FROM SURFACE ELEVATION TO TOP OF VALVE OPERATING SPINDLE SHALL HAVE EXTENDING SPINDLE AND GUIDE BRACKET.
- ALL ALUMINUM SURFACES CONTACTING CONCRETE TO RECEIVE ONE COAT OF BITUMINOUS PAINT.
- 'V' DEPENDS ON HEIGHT (H) & BARS SHALL BE COUNTED TO ENSURE THAT THE BOTTOM BAR IS LESS THAN 150mm ABOVE THE ROOF CHAMBER.

BENDING SCHEDULE

BAR NO.	CH.	TYPE	SIZE	LENGTH	SHAPE	O.C.	REMARKS
1001	10	1000	200	220	200	7	
1002	10	1000	200	220	200	8	
1003	10	1000	200	220	200	9	
1004	10	1000	200	220	200	10	
1005	10	1000	200	220	200	11	
1006	10	1000	200	220	200	12	
1007	10	1000	200	220	200	13	
1008	10	1000	200	220	200	14	
1009	10	1000	200	220	200	15	
1010	10	1000	200	220	200	16	
1011	10	1000	200	220	200	17	
1012	10	1000	200	220	200	18	
1013	10	1000	200	220	200	19	
1014	10	1000	200	220	200	20	
1015	10	1000	200	220	200	21	
1016	10	1000	200	220	200	22	
1017	10	1000	200	220	200	23	
1018	10	1000	200	220	200	24	
1019	10	1000	200	220	200	25	
1020	10	1000	200	220	200	26	
1021	10	1000	200	220	200	27	
1022	10	1000	200	220	200	28	
1023	10	1000	200	220	200	29	
1024	10	1000	200	220	200	30	
1025	10	1000	200	220	200	31	
1026	10	1000	200	220	200	32	
1027	10	1000	200	220	200	33	
1028	10	1000	200	220	200	34	
1029	10	1000	200	220	200	35	
1030	10	1000	200	220	200	36	
1031	10	1000	200	220	200	37	
1032	10	1000	200	220	200	38	
1033	10	1000	200	220	200	39	
1034	10	1000	200	220	200	40	
1035	10	1000	200	220	200	41	
1036	10	1000	200	220	200	42	
1037	10	1000	200	220	200	43	
1038	10	1000	200	220	200	44	
1039	10	1000	200	220	200	45	
1040	10	1000	200	220	200	46	
1041	10	1000	200	220	200	47	
1042	10	1000	200	220	200	48	
1043	10	1000	200	220	200	49	
1044	10	1000	200	220	200	50	
1045	10	1000	200	220	200	51	
1046	10	1000	200	220	200	52	
1047	10	1000	200	220	200	53	
1048	10	1000	200	220	200	54	
1049	10	1000	200	220	200	55	
1050	10	1000	200	220	200	56	
1051	10	1000	200	220	200	57	
1052	10	1000	200	220	200	58	
1053	10	1000	200	220	200	59	
1054	10	1000	200	220	200	60	
1055	10	1000	200	220	200	61	
1056	10	1000	200	220	200	62	
1057	10	1000	200	220	200	63	
1058	10	1000	200	220	200	64	
1059	10	1000	200	220	200	65	
1060	10	1000	200	220	200	66	
1061	10	1000	200	220	200	67	
1062	10	1000	200	220	200	68	
1063	10	1000	200	220	200	69	
1064	10	1000	200	220	200	70	
1065	10	1000	200	220	200	71	
1066	10	1000	200	220	200	72	
1067	10	1000	200	220	200	73	
1068	10	1000	200	220	200	74	
1069	10	1000	200	220	200	75	
1070	10	1000	200	220	200	76	
1071	10	1000	200	220	200	77	
1072	10	1000	200	220	200	78	
1073	10	1000	200	220	200	79	
1074	10	1000	200	220	200	80	
1075	10	1000	200	220	200	81	
1076	10	1000	200	220	200	82	
1077	10	1000	200	220	200	83	
1078	10	1000	200	220	200	84	
1079	10	1000	200	220	200	85	
1080	10	1000	200	220	200	86	
1081	10	1000	200	220	200	87	
1082	10	1000	200	220	200	88	
1083	10	1000	200	220	200	89	
1084	10	1000	200	220	200	90	
1085	10	1000	200	220	200	91	
1086	10	1000	200	220	200	92	
1087	10	1000	200	220	200	93	
1088	10	1000	200	220	200	94	
1089	10	1000	200	220	200	95	
1090	10	1000	200	220	200	96	
1091	10	1000	200	220	200	97	
1092	10	1000	200	220	200	98	
1093	10	1000	200	220	200	99	
1094	10	1000	200	220	200	100	

FOR REINFORCING AT DRAIN REFER TO SUMP AND DRAIN DETAIL DWG.

MATERIAL LIST

MARK	SUPPLIED BY CONTRACTOR	MARK	SUPPLIED BY CONTRACTOR
12	4-8mm BIL. W/ 10 WSP/WALL, SUMP SEAT	1040	1-100mm FABRICATED S.S. FL-WET CONNECTION
13	1-100mm BUTTERFLY VALVE WITH 100mm VALVE PLATE	1041	1-100mm FABRICATED S.S. WET-TO-WET BRACKET
14	1-100mm GATE VALVE WITH 100mm VALVE PLATE	1042	1-100mm FABRICATED S.S. WET-TO-WET CONNECTION
15	1-100mm BACKWATER CHECK VALVE	1043	1-100mm WET COUPLING, STUCCO 400mm
16	1-100mm BUTTERFLY VALVE WITH 100mm VALVE PLATE	1044	1-100mm FABRICATED S.S. FLANGE ASSEMBLY
17	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1045	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
18	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1046	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
19	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1047	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
20	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1048	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
21	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1049	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
22	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1050	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
23	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1051	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
24	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1052	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
25	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1053	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
26	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1054	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
27	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1055	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
28	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1056	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
29	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1057	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
30	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1058	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
31	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1059	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
32	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1060	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
33	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1061	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
34	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1062	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
35	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1063	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
36	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1064	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
37	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1065	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
38	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1066	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
39	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1067	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
40	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1068	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
41	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1069	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
42	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1070	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
43	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1071	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
44	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1072	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
45	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1073	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
46	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1074	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
47	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1075	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
48	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1076	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
49	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1077	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
50	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1078	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
51	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1079	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
52	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1080	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
53	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1081	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
54	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1082	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
55	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1083	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
56	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1084	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
57	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1085	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
58	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1086	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
59	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1087	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
60	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1088	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
61	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1089	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
62	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1090	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
63	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1091	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
64	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1092	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
65	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1093	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
66	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1094	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
67	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1095	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
68	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1096	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
69	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1097	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
70	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1098	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
71	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1099	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
72	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1100	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
73	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1101	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
74	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1102	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
75	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1103	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
76	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1104	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
77	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1105	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
78	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1106	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
79	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1107	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
80	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1108	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
81	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1109	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
82	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1110	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
83	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1111	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
84	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1112	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
85	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1113	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
86	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1114	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
87	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1115	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
88	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1116	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
89	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1117	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
90	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1118	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
91	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1119	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
92	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1120	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
93	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1121	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
94	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1122	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
95	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1123	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
96	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1124	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
97	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1125	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
98	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1126	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
99	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1127	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
100	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1128	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
101	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1129	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
102	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1130	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
103	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1131	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
104	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1132	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
105	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1133	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
106	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1134	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
107	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1135	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
108	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1136	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
109	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1137	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
110	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1138	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
111	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1139	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
112	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1140	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
113	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1141	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
114	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1142	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
115	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1143	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
116	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1144	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
117	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1145	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
118	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1146	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
119	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1147	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
120	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1148	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
121	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1149	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
122	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1150	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
123	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1151	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
124	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1152	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
125	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1153	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
126	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1154	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
127	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1155	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
128	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1156	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
129	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1157	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
130	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1158	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
131	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1159	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
132	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1160	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
133	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1161	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
134	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1162	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
135	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1163	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
136	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1164	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
137	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1165	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
138	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1166	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
139	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1167	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
140	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1168	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
141	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1169	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
142	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1170	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
143	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1171	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
144	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1172	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
145	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1173	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
146	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1174	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
147	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1175	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
148	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1176	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
149	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1177	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
150	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1178	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
151	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1179	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
152	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1180	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
153	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1181	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
154	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1182	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
155	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1183	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
156	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1184	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
157	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1185	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
158	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1186	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
159	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1187	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
160	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1188	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
161	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1189	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
162	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1190	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
163	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1191	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
164	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1192	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
165	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1193	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
166	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1194	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
167	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1195	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
168	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1196	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE
169	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE	1197	1-100mm WET BUTTERFLY VALVE WITH 100mm VALVE PLATE