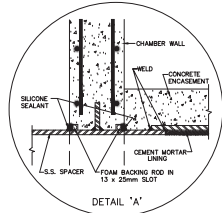
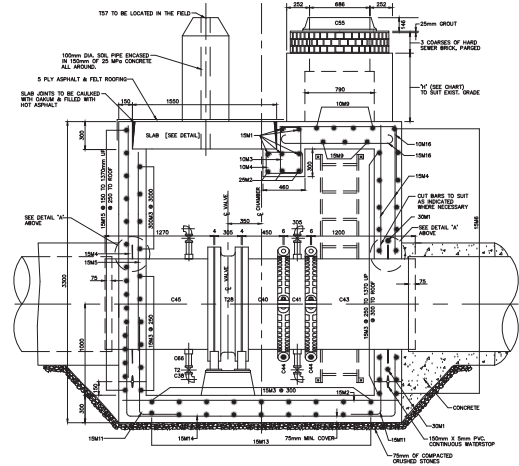


PLAN

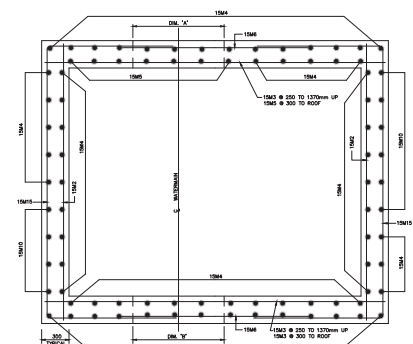
CHAMBER NO.	CHAM. 'X'	CHAM. 'Y'	CHAM. 'Z'	CHAM. 'W'	CHAM. 'V'



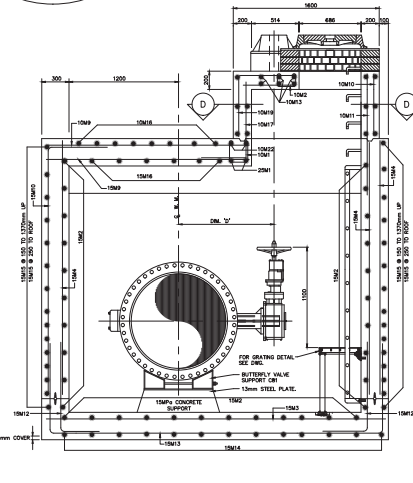
DETAIL 'A'



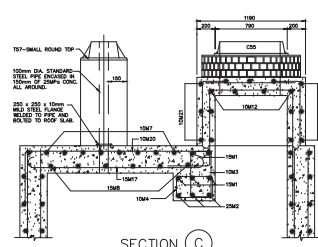
SECTION (A)



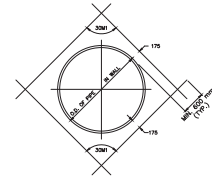
WALL SECTION



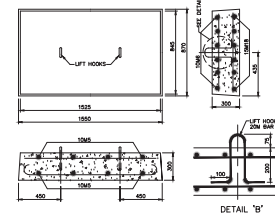
SECTION (B)



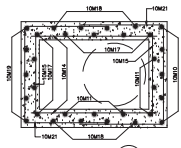
SECTION (C)



REINFORCING AROUND PIPE



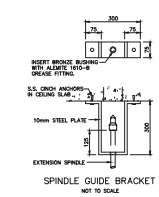
REMOVABLE SLAB



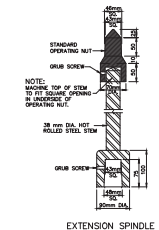
SECTION (D)

CHAMBER NO.	CHAMBER	WATERMAIN & VALVE	SURFACE	DIFFERENCE IN ELEVATION	COVER LOCATION	DRAIN TYPE	OUTLET DIRECTION	FOR LOCATION OF PLAN NO.	REMARKS

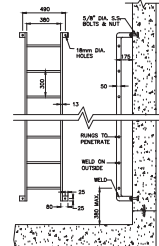
CHAMBERS



SPINDLE GUIDE BRACKET



EXTENSION SPINDLE



REMOVABLE ALUMINUM LADDER



RUNG DETAIL

NOTES

1. 25MPa concrete to be used except as noted.
2. MAXIMUM SIZE OF COARSE AGGREGATE TO BE 20mm.
3. COVER TO MAIN REINFORCEMENT TO BE 50mm OR AS INDICATED.
4. ALL BAR DIMENSIONS ARE OUT TO OUT.
5. BARS TO BE BENT COLD. MINIMUM BEND RADIUS TO BE 3 DIAMETERS.
6. ALL CROSSING BARS TO BE WELL WELDED.
7. ALL REINFORCING STEEL TO BE FURNISHED BUILT-STEEL, BARS GRADE 350, CONFORMING TO C.S.A. STANDARD G30.12M.
8. ALL LAPS IN REINFORCING STEEL TO BE AT LEAST 30 DIAMETERS IN LENGTH OR AS SHOWN, AND TO BE STAGGERED.
9. ALL BRICKWORK TO BE OF HIGH QUALITY HARD BURNED BRICK, LAID IN FULL MORTAR BED JOINTS, PARGED INSIDE AND OUT.
10. WATERSTOP (PVC) TO BE PROVIDED AT ALL CONSTRUCTION JOINTS.
11. WHERE NECESSARY ADJUST REINFORCING STEEL TO SUIT WATERSTOPS AND OPENINGS.
12. PROVIDE SUMP PIT WITH GRATING AND SLOPE FLOOR TO SUMP 10mm/METRE.
13. 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 DELETE DRAIN TYPE 'A' AND CONSTRUCT DRAIN TYPE 'B' AND INSTALL PIPE WITH STOPPER AS SHOWN ON CHG.
14. DRAIN CONNECTION TO SEWER TO BE MADE BY CONTRACTOR UNLESS OTHERWISE STATED IN THE GENERAL SPECIFICATIONS.
15. LADDERS, GRATINGS AND RAILINGS TO BE ALUMINUM OR OF REMOVABLE TYPE WITH STAINLESS STEEL BOLTS.
16. TOP TWO STEPS AND ANY ADDITIONAL STEPS IN THE CHIMNEY TO BE OF THE REMOVABLE TYPE.
17. CHAMBERS DEEPER THAN 1200mm FROM SURFACE ELEVATION TO TOP OF VALVE OPERATING SPINDLE SHALL HAVE EXTENSION SPINDLE AND GUIDE BRACKET.
18. ALL ALUMINUM SURFACES CONTACTING CONCRETE TO RECEIVE ONE COAT OF BITUMINOUS PAINT.
19. 'X' 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.	SHA	TOTAL LENGTH	a	b	c	d	SHAPE	O.C.	BAR REQS.
12M1	10	900	220	220	220	220	10	200	7
12M2	10	710	120	220	120	120	10	200	8
12M3	10	1440	320	220	320	220	10	200	19
12M4	10	1360	200	220	200	220	10	200	19
12M5	10	770	220	220	220	220	10	200	16
12M6	10	1420	220	220	220	220	10	200	18
12M7	10	1680	220	220	220	220	10	200	20
12M8	10	2200	220	220	220	220	10	200	22
12M9	10	2200	220	220	220	220	10	200	22
12M10	10	2200	220	220	220	220	10	200	22
12M11	10	2200	220	220	220	220	10	200	22
12M12	10	2200	220	220	220	220	10	200	22
12M13	10	2200	220	220	220	220	10	200	22
12M14	10	2200	220	220	220	220	10	200	22
12M15	10	2200	220	220	220	220	10	200	22
12M16	10	2200	220	220	220	220	10	200	22
12M17	10	2200	220	220	220	220	10	200	22
12M18	10	2200	220	220	220	220	10	200	22
12M19	10	2200	220	220	220	220	10	200	22
12M20	10	2200	220	220	220	220	10	200	22
12M21	10	2200	220	220	220	220	10	200	22
12M22	10	2200	220	220	220	220	10	200	22
12M23	10	2200	220	220	220	220	10	200	22
12M24	10	2200	220	220	220	220	10	200	22
12M25	10	2200	220	220	220	220	10	200	22
12M26	10	2200	220	220	220	220	10	200	22
12M27	10	2200	220	220	220	220	10	200	22
12M28	10	2200	220	220	220	220	10	200	22
12M29	10	2200	220	220	220	220	10	200	22
12M30	10	2200	220	220	220	220	10	200	22
12M31	10	2200	220	220	220	220	10	200	22
12M32	10	2200	220	220	220	220	10	200	22
12M33	10	2200	220	220	220	220	10	200	22
12M34	10	2200	220	220	220	220	10	200	22
12M35	10	2200	220	220	220	220	10	200	22
12M36	10	2200	220	220	220	220	10	200	22
12M37	10	2200	220	220	220	220	10	200	22
12M38	10	2200	220	220	220	220	10	200	22
12M39	10	2200	220	220	220	220	10	200	22
12M40	10	2200	220	220	220	220	10	200	22
12M41	10	2200	220	220	220	220	10	200	22
12M42	10	2200	220	220	220	220	10	200	22
12M43	10	2200	220	220	220	220	10	200	22
12M44	10	2200	220	220	220	220	10	200	22
12M45	10	2200	220	220	220	220	10	200	22
12M46	10	2200	220	220	220	220	10	200	22
12M47	10	2200	220	220	220	220	10	200	22
12M48	10	2200	220	220	220	220	10	200	22
12M49	10	2200	220	220	220	220	10	200	22
12M50	10	2200	220	220	220	220	10	200	22
12M51	10	2200	220	220	220	220	10	200	22
12M52	10	2200	220	220	220	220	10	200	22
12M53	10	2200	220	220	220	220	10	200	22
12M54	10	2200	220	220	220	220	10	200	22
12M55	10	2200	220	220	220	220	10	200	22
12M56	10	2200	220	220	220	220	10	200	22
12M57	10	2200	220	220	220	220	10	200	22
12M58	10	2200	220	220	220	220	10	200	22
12M59	10	2200	220	220	220	220	10	200	22
12M60	10	2200	220	220	220	220	10	200	22
12M61	10	2200	220	220	220	220	10	200	22
12M62	10	2200	220	220	220	220	10	200	22
12M63	10	2200	220	220	220	220	10	200	22
12M64	10	2200	220	220	220	220	10	200	22
12M65	10	2200	220	220	220	220	10	200	22
12M66	10	2200	220	220	220	220	10	200	22
12M67	10	2200	220	220	220	220	10	200	22
12M68	10	2200	220	220	220	220	10	200	22
12M69	10	2200	220	220	220	220	10	200	22
12M70	10	2200	220	220	220	220	10	200	22
12M71	10	2200	220	220	220	220	10	200	22
12M72	10	2200	220	220	220	220	10	200	22
12M73	10	2200	220	220	220	220	10	200	22
12M74	10	2200	220	220	220	220	10	200	22
12M75	10	2200	220	220	220	220	10	200	22
12M76	10	2200	220	220	220	220	10	200	22
12M77	10	2200	220	220	220	220	10	200	22
12M78	10	2200	220	220	220	220	10	200	22
12M79	10	2200	220	220	220	220	10	200	22
12M80	10	2200	220	220	220	220	10	200	22
12M81	10	2200	220	220	220	220	10	200	22
12M82	10	2200	220	220	220	220	10	200	22
12M83	10	2200	220	220	220	220	10	200	22
12M84	10	2200	220	220	220	220	10	200	22
12M85	10	2200	220	220	220	220	10	200	22
12M86	10	2200	220	220	220	220	10	200	22
12M87	10	2200	220	220	220	220	10	200	22
12M88	10	2200	220	220	220	220	10	200	22
12M89	10	2200	220	220	220	220	10	200	22
12M90	10	2200	220	220	220	220	10	200	22
12M91	10	2200	220	220	220	220	10	200	22
12M92	10	2200	220	220	220	220	10	200	22
12M93	10	2200	220	220	220	220	10	200	22
12M94	10	2200	220	220	220	220	10	200	22
12M95	10	2200	220	220	220	220	10	200	22
12M96	10	2200	220	220	220	220	10	200	22
12M97	10	2200	220	220	220	220	10	200	22
12M98	10	2200	220	220	220	220	10	200	22
12M99	10	2200	220	220	220	220	10	200	22
12M100	10	2200	220	220	220	220	10	200	22

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

MATERIAL LIST / CHAMBER

MARK	SUPPLIED BY CONTRACTOR	MARK	SUPPLIED BY CONTRACTOR
T2	T2-4-50mm BALL VALVES IS BODY/BALL TYPON 85T	C40	1-750mm FABRICATED S.S. FL-VCT CONNECTION
	T2-1-150mm BROWNSHAW CHECK VALVE	C41	1-750mm FABRICATED S.S. VCT. TO VCT. SPACER
	T2-1-CENTRE PLUG FOR CHAMBER COVER	C42	1-750mm FABRICATED S.S. VCTALIC CONNECTION
	T2-1-CENTRE PLUG FOR SMALL ROUND TOP	C43	1-750mm VCT. COUPLER, STYLE W/ 50mm HOVER
	T2-1-750mm HOB. BUTTERFLY VALVE AWAMCO4	C44	1-750mm FABRICATED S.S. FLANGE ASSEMBLY
	T2-1-SMALL ROUND TOP	C45	1-CIRCULAR COVER W/ 50mm S.S. FL. VCT. CONNECTION
MARK	SUPPLIED BY CONTRACTOR	C46	1-50mm ISOL. SHIRT SWEEP ELBOW
	C38-4-50mm ISOL. SHIRT SWEEP ELBOW	C47	1-50mm ISOL. SHIRT SWEEP ELBOW
	C39-1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C48	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	C40-1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C49	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	C41-1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C50	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	C42-1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C51	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C43	2-50mm ISOL. SHIRT SWEEP ELBOW	C52	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	2-50mm ISOL. SHIRT SWEEP ELBOW	C53	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	2-50mm ISOL. SHIRT SWEEP ELBOW	C54	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	2-50mm ISOL. SHIRT SWEEP ELBOW	C55	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	2-50mm ISOL. SHIRT SWEEP ELBOW	C56	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	2-50mm ISOL. SHIRT SWEEP ELBOW	C57	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C44	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C58	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C59	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C60	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C61	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C62	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C63	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C45	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C64	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C65	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C66	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C67	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C68	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C69	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C46	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C70	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C71	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C72	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C73	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C74	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C75	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C47	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C76	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C77	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C78	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C79	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C80	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C81	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C48	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C82	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C83	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C84	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C85	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C86	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C87	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C49	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C88	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C89	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C90	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C91	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C92	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C93	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C50	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C94	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C95	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C96	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C97	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C98	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C99	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C51	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C100	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C101	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C102	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C103	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C104	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C105	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C52	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C106	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C107	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C108	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C109	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C110	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C111	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C53	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C112	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C113	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C114	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C115	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C116	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C117	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C54	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C118	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C119	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C120	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C121	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C122	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C123	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C55	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C124	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C125	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C126	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C127	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C128	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C129	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C56	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C130	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C131	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C132	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C133	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C134	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C135	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C57	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C136	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C137	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C138	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C139	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C140	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C141	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C58	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C142	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C143	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C144	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C145	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C146	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C147	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C59	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C148	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C149	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C150	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C151	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C152	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C153	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C60	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C154	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C155	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C156	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C157	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C158	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C159	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C61	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C160	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C161	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C162	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C163	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C164	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C165	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C62	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C166	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C167	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C168	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C169	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C170	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C171	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C63	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C172	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C173	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C174	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C175	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C176	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C177	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C64	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C178	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C179	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C180	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C181	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C182	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C183	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C65	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C184	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C185	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C186	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C187	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C188	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C189	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C66	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C190	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C191	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C192	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C193	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C194	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C195	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C67	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C196	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C197	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C198	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C199	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C200	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C201	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C68	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C202	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C203	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C204	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C205	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C206	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C207	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C69	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C208	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C209	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C210	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C211	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C212	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C213	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C70	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C214	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C215	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C216	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C217	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C218	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C219	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C71	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C220	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C221	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C222	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C223	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C224	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C225	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C72	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C226	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C227	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C228	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C229	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C230	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C231	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C73	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C232	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C233	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C234	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C235	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C236	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C237	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C74	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C238	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C239	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C240	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C241	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C242	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C243	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
C75	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C244	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C245	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C246	1-50mm HOB. BUTTERFLY VALVE AWAMCO4
	1-50mm HOB. BUTTERFLY VALVE AWAMCO4	C247	1-50mm HOB. BUTTERFLY VALVE AWAMCO4