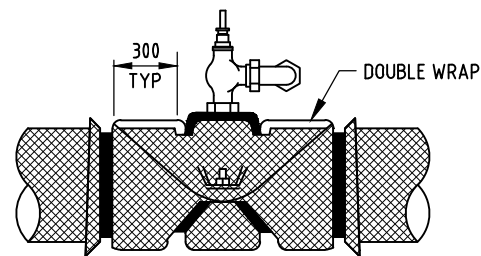
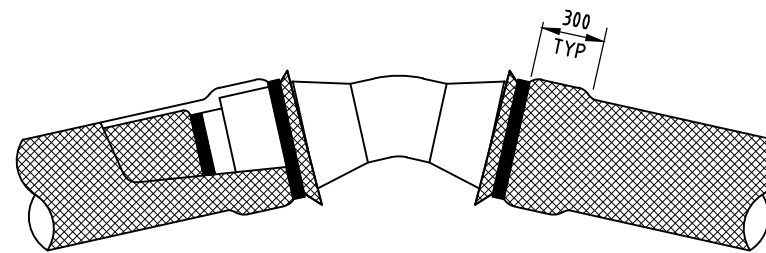


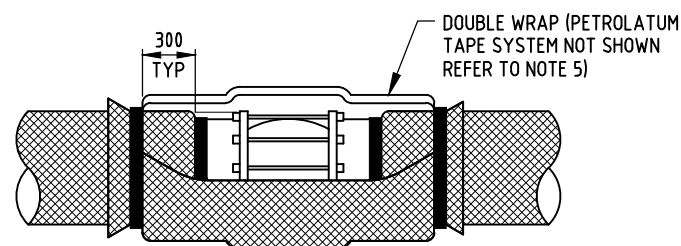
**CAP**



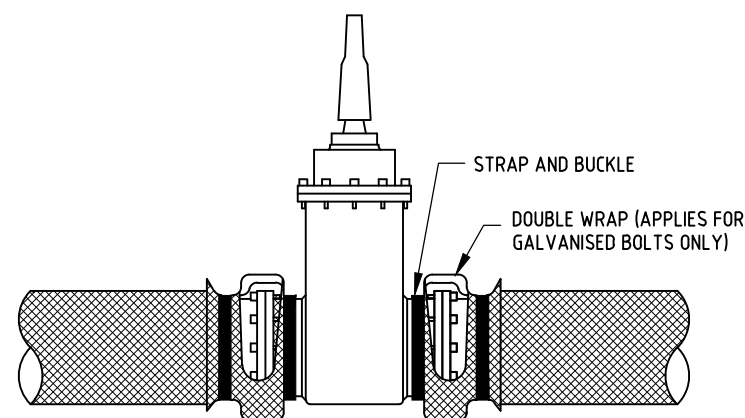
**TAPPING BAND AND FERRULE**  
(DUCTILE IRON PIPE ONLY)



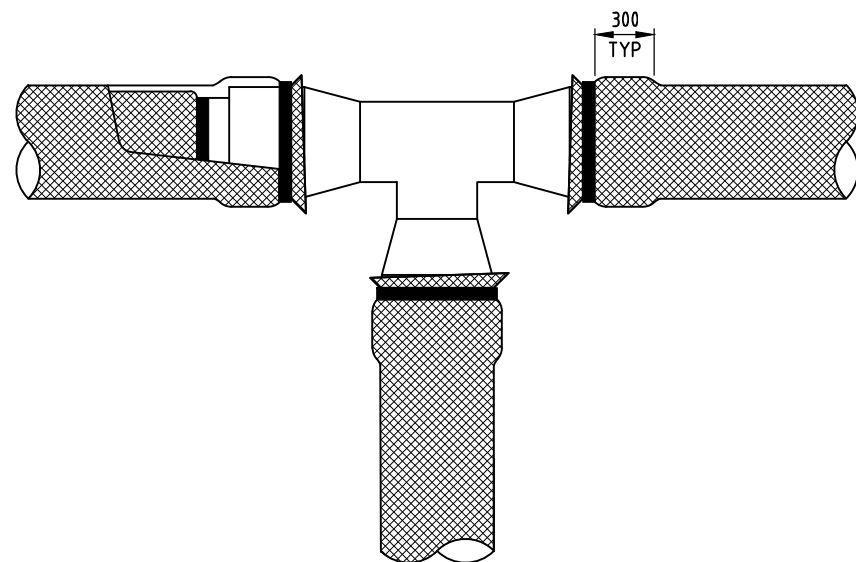
**POLYMERIC COATED BEND**



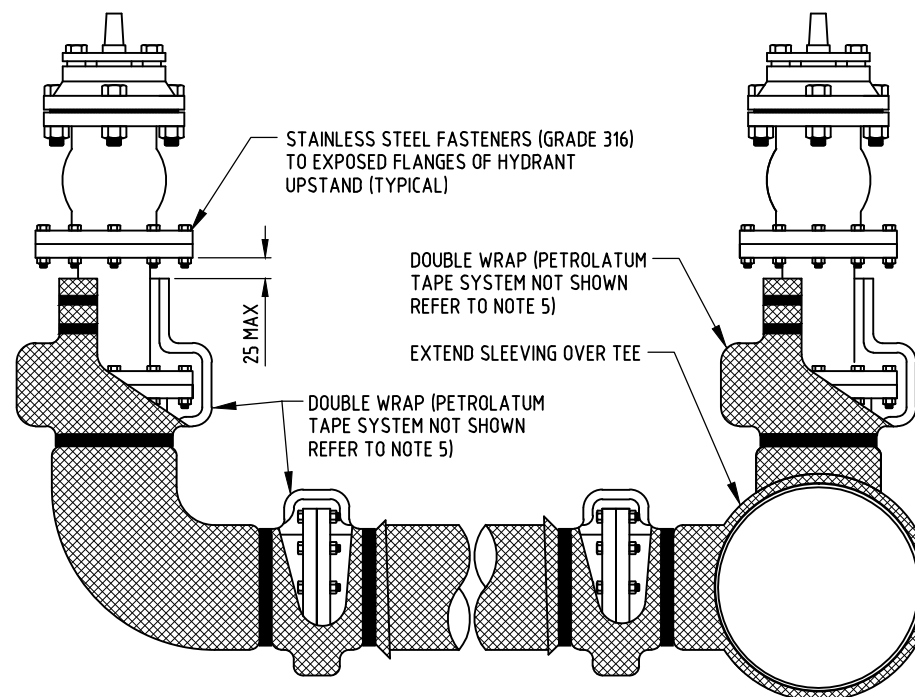
**GIBAULT JOINT**



**POLYMERIC COATED SLUICE VALVE**



**POLYMERIC COATED TEE**



**OFFSET OR ABOVE MAINS HYDRANT INSTALLATIONS**  
(DUCTILE IRON PIPE ONLY)

NOMINAL SIZE DN	SLEEVE WIDTH		NOMINAL SIZE DN	SLEEVE WIDTH	
	PIPES	FLANGED FITTINGS		PIPES	FLANGED FITTINGS
100	350	425	450	1100	1100
150	425	425	500	1100	1100
225	635	635	600	1270	1270
300	725	725	750	1500	1500
375	875	875			

**NOTES:**

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH STANDARD DRAWING NUMBER W1-2-17A - APPLICATION OF POLYETHYLENE SLEEVING FOR CORROSION PROTECTION OF DICTL PIPES.
- POLYETHYLENE SLEEVING, ADHESIVE TAPE AND STRAP AND BUCKLE SHALL CONFORM TO AS 3680-1989.
- EXCLUDING POLYMERIC COATED BENDS AND TEES, SLEEVING SHALL BE APPLIED TO ALL FITTINGS TO ENSURE THERE IS NO CONTACT BETWEEN THE FITTING AND THE EMBEDMENT MATERIAL.
- BOLTED JOINTS, FITTINGS AND TAPPING BANDS SHALL BE COVERED WITH TWO LAYERS OF SLEEVING INDIVIDUALLY INSTALLED AND FASTENED. IN ADDITION, WHERE GALVANISED FASTENERS ARE USED, APPLY A THREE OR FOUR PART PETROLATUM TAPE SYSTEM TO PROVIDE CORROSION PROTECTION TO THE FASTENERS. WHERE STAINLESS STEEL FASTENERS OR OTHER STAINLESS STEEL COMPONENTS ARE USED DO NOT APPLY A PETROLATUM TAPE SYSTEM.
- END OVERLAP SHALL BE 300 MIN WHERE ONE LAYER OF SLEEVING IS REQUIRED. WHERE TWO LAYERS OF SLEEVING ARE REQUIRED, COVER ONLY THE AREA AS SHOWN WITH THE SECOND LAYER.
- SECURE AND SEAL SLEEVING AS SHOWN USING ADHESIVE TAPE. APPLY TAPE ONE AND A HALF TURNS AROUND THE FITTING AT POSITIONS SHOWN SO THAT THE FREE FLOW OF GROUND WATER IS PREVENTED.
- REPAIR OF DAMAGED SLEEVING,  
A) ADHESIVE TAPE SHALL BE USED FOR HOLES OR TEARS SMALLER THAN WIDTH OF TAPE  
B) ADHESIVE TAPE AND POLYETHYLENE SLEEVING SHALL BE USED FOR MODERATE DAMAGE WHERE CONDITIONS WILL ALLOW THE USE OF TAPE  
C) POLYETHYLENE SHEET WITH STRAP AND BUCKLE SHALL BE USED FOR LARGE AREAS OF DAMAGE.
- FOLLOW STEPS OUTLINED IN NOTE 8 FOR IN-SITU REPAIRS. HOWEVER, CARE MUST BE TAKEN TO ENSURE THAT EXISTING POLYETHYLENE SLEEVING WITHIN 300MIN OF DAMAGED AREA IS CLEAN AND REPAIR IS COVERED WITH 100MIN OVERLAP AND SEALED CORRECTLY.
- WHERE FITTINGS ARE SLEEVED, AN EXTRA LOOSE LAYER OF SLEEVING SHALL BE PLACED BETWEEN A FITTING AND THE THRUST BLOCK RETAINING THAT FITTING. FOR POLYMERIC COATED FITTINGS, PLACE FELT (MIN 6mm THICK) BETWEEN FITTING AND CONCRETE TO PREVENT DAMAGE TO FITTING. JOINT SHALL BE CLEAR OF CONCRETE.
- FOR DICTL MAINS, ALL PIPES AND FITTINGS SHALL BE PROTECTED WITH POLYETHYLENE SLEEVING. FOR UPVC OR GRP MAINS, DUCTILE IRON FITTINGS SHALL BE USED. FITTINGS SHALL BE INTERNALLY AND EXTERNALLY COATED WITH AN APPROVED POLYMERIC COATING ALTERNATIVELY, DICTL FITTINGS SHALL BE EXTERNALLY WRAPPED WITH POLYETHYLENE SLEEVING AS DETAILED ON THIS STANDARD DRAWING.
- DICTL, UPVC AND GRP SEWERAGE RISING MAINS SHALL BE PROTECTED IN ACCORDANCE WITH THIS STANDARD DRAWING.
- USE WASHERS UNDER BOLT HEAD AND NUT TO PROTECT POLYMERIC COATING.
- FOR DETAILS OF ALL CORROSION PROTECTION PRODUCTS USED ON THIS STANDARD DRAWING, REFER TO THE WATER AND SEWER MAINS INFRASTRUCTURE PRODUCT MANUAL.
- WHERE STAINLESS STEEL BOLTS ARE USED, BOLTS TO BE 316 SS & NUTS 304 SS.

NO	DESCRIPTION	DRN	DATE	CKD	APPD
4	GENERAL AMENDMENTS 2021.	PW	DEC'21	JR	DC
3	REDRAWN IN AUTOCAD.	AW	OCT'18	JR	DC
2	FITTINGS AMENDED TO BE POLYMERIC COATED. NOTES ADDED.	RGI	NOV'08	RJ	JP
1	NOTE 5 AMENDED, EXTRA NOTES ADDED TO DETAILS. HYDRANT WRAPPING ALTERED.	RGI	MAR'99	NWM	NWM
AMENDMENTS					



DES	NMC	WATER STANDARD DRAWING		
DRN	RI	MAINLAYING		
CHK	CP	APPLICATION OF POLYETHYLENE SLEEVING		
APPD	NMC	FOR CORROSION PROTECTION OF DUCTILE IRON FITTINGS		
SCALE	N.T.S.	A3	DRAWING NUMBER	4
ISSUED	MAR'97		W1-2-17B	
ALL DIM. IN mm				
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		