

# MAYNILAD REQUIREMENTS

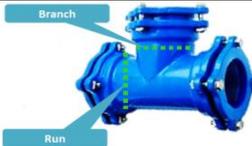
Item	Description	Submittal/s	Sample Picture
<b>VELOCITY TYPE WATERMETER CLASS B</b>	WATERMETER:CLS B VELOCITY,15,W/TLPC	Product Sample	
	WATERMETER:CLS B VELOCITY,15	Product Sample	
	WATERMETER:CLS B VELOCITY,20,W/TLPC	Product Sample	
	WATERMETER:CLS B VELOCITY,25,W/TLPC	Product Sample	
	WATERMETER:CLS B VELOCITY,40,W/TLPC	Product Sample	
<b>VOLUMETRIC WATERMETER R800</b>	WATERMETER:R800 VOLUMETRIC,15,COMPOSITE	Product Sample	
	WATERMETER:R800 VOLUMETRIC,15,BRS	Product Sample	
	WATERMETER:R800 VOLUMETRIC,20,BRS	Product Sample	
	WATERMETER:R800 VOLUMETRIC,25,BRS	Product Sample	
	WATERMETER:R800 VOLUMETRIC,40,BRS	Product Sample	
<b>ELECTROMAGNETIC FLOWMETERS</b>			
Insertion Type	Kindly email us for the Technical Specification of this item.	Product Sample	Physical Appearance depends on the Manufacturer's design
Fullbore	Kindly email us for the Technical Specification of this item.	Product Sample	Physical Appearance depends on the Manufacturer's design
<b>BRASS FITTINGS</b>			
<b>Corporation Stop</b>	Corporation Stop Valve, 3/4 x 1 IN,MTE x CJ, Brass	Shop Drawing and/or Brochure	
	Corporation Stop Valve,1X1-1/4IN ,MTEXCJ,Brass	Shop Drawing and/or Brochure	
	Corporation Stop Valve,1-1/2X2IN,MTEXCJ,Brass	Shop Drawing and/or Brochure	
	Corporation Stop Valve,2X2-1/2IN,MTEXCJ,Brass	Shop Drawing and/or Brochure	

Angle Ball Valve	Angel Ball Valve, 15X3/4IN,FTE,Brass,ISO7/228	Shop Drawing and/or Brochure	
	Angel Ball Valve, 20X1IN,FTE,Brass,ISO7/228	Shop Drawing and/or Brochure	
	Angel Ball Valve, 25X1-1/4IN,FTE,Brass,ISO7/228	Shop Drawing and/or Brochure	
	Angel Ball Valve, 40X2IN,FTE,Brass,ISO7/228	Shop Drawing and/or Brochure	
Straight Ball Valve	Straight Ball Valve, 20X1IN,FTE,BRS,ISO7/228	Shop Drawing and/or Brochure	
	Straight Ball Valve, 25X1-1/4IN,FTE,BRS,ISO 7/228	Shop Drawing and/or Brochure	
	Straight Ball Valve, 40X2,FTE,BRS,ISO7/228	Shop Drawing and/or Brochure	
	Straight Ball Valve, 15X3/4IN,MTEXFTE,Brass	Shop Drawing and/or Brochure	
Bend	Pipe Bend, 3/4 IN,90 DEG,Brass,ISO7/228,FTE	Shop Drawing and/or Brochure	
Tail Piece	Tail Piece, Brass,15,F/Water Meter	Shop Drawing and/or Brochure	
	Tail Piece, Brass,20,F/Water Meter	Shop Drawing and/or Brochure	
	Tail Piece, Brass,25,F/Water Meter	Shop Drawing and/or Brochure	
	Tail Piece, Brass,40,F/Water Meter	Shop Drawing and/or Brochure	
<b>SADDLE CLAMP FOR GALVANIZED IRON PIPE (GIP)</b>	Kindly see attached Material Code Matrix for CI/DI Saddle Clamp	Shop Drawing and/or Brochure	
<b>PRESSURE REGULATING VALVES AND FITTINGS</b>			
Pressure Regulating Valve	VALVE:PRESSURE REGULATING;3-WAY,100	Shop Drawing and/or Brochure	
	VALVE:PRESSURE REGULATING;3-WAY,150	Shop Drawing and/or Brochure	
	VALVE:PRESSURE REGULATING;3-WAY,200	Shop Drawing and/or Brochure	
	VALVE:PRESSURE REGULATING;3-WAY,250	Shop Drawing and/or Brochure	
	VALVE:PRESSURE REGULATING;3-WAY,300	Shop Drawing and/or Brochure	

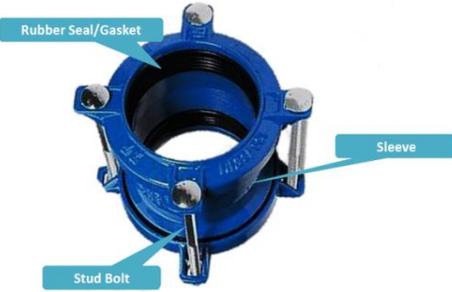
Tube Tee (Push Fit)	TEE:TUBE;6X6,PFIT,PLSTC	Product Sample	
Tube Joiner (Push Fit)	JOINER:TUBE;6X6,PFIT,PLSTC	Product Sample	
Straight Connector	CONNECTOR:STRGT,1/4INX6,MTEXPFIT,BRS/SS	Product Sample	
Quick Connect	CONNECTOR:QUICK-CONNECT,5X1/4IN,FTE,SS	Product Sample	
	CONNECTOR:QUICK-CONNECT,5X1/8IN,FTE,SS	Product Sample	
Hex Bushing	BUSHING:PIPE;HEX,1X1/2IN,MTEXFTE	Product Sample	
	BUSHING:PIPE;HEX,1X3/8IN,MTEXFTE	Product Sample	
	BUSHING:PIPE;HEX,1X1/4IN,MTEXFTE	Product Sample	
	BUSHING:PIPE;HEX,1/2X3/8IN,MTEXFTE	Product Sample	
	BUSHING:PIPE;HEX,1/2X1/4IN,MTEXFTE	Product Sample	
	BUSHING:PIPE;HEX,1/2X1/8IN,MTEXFTE	Product Sample	
	BUSHING:PIPE;HEX,3/4X3/8IN,MTEXFTE	Product Sample	
	BUSHING:PIPE;HEX,3/4X1/4IN,MTEXFTE	Product Sample	
BUSHING:PIPE;HEX,3/8X1/8IN,MTEXFTE	Product Sample		
Hex Nipple	NIPPLE:HEX,1/4X1/4IN,MTE,BRS/SS	Product Sample	

Hex Coupling	COUPLING:HEX,1/4X3/8IN,MTEXFTE,BRS/SS	Product Sample	
Ball Valve	VALVE:BALL;1/2 X 1/2 IN,MTEXFTE,BRS/SS	Product Sample	
	VALVE:BALL;1/4X1/4IN,FTE,BRS/SS	Product Sample	
Niddle Valve	VALVE:BALL;1/4X1/4IN,FTE,BRS/SS	Product Sample	
Tubing	TUBING:HDPE,6,1/4IN OD,BLK	Product Sample	
Compression Ring	RING:COMPRSN,3/8IN,BRS	Product Sample	
Compression Insert	INSERT:COMPRSN,1/4IN,BRS	Product Sample	
Air Brake Hose	HOSE:AIR BRAKE;TYP B,3/8IN OD,POLYAMD	Product Sample	
Compression Fitting	FITTING:COMPRSN,1/4X3/8IN,BSPXFNETHD,BRS	Product Sample	

<p><b>STAINLESS STEEL REPAIR CLAMP</b></p>	<p>Kindly see attached Material Code Matrix for Repair Clamp</p>	<p>Shop Drawing and/or Brochure</p>	
<p><b>CAST IRON/DUCTILE IRON FITTINGS</b></p>			
<p>Bend 45 Degrees</p>	<p>Kindly see attached Material Code Matrix for CI/DI Bend 45 Degrees (FE x FE)</p>	<p>Shop Drawing and/or Brochure</p>	
	<p>Kindly see attached Material Code Matrix for CI/DI Bend 45 Degrees (FE x MJ)</p>	<p>Shop Drawing and/or Brochure</p>	
	<p>Kindly see attached Material Code Matrix for CI/DI Bend 45 Degrees (MJ x MJ)</p>	<p>Shop Drawing and/or Brochure</p>	
<p>Bend 90 Degrees</p>	<p>Kindly see attached Material Code Matrix for CI/DI Bend 90 Degrees (FE x FE)</p>	<p>Shop Drawing and/or Brochure</p>	
	<p>Kindly see attached Material Code Matrix for Bend 90 Degrees (FE x MJ)</p>	<p>Shop Drawing and/or Brochure</p>	
	<p>Kindly see attached Material Code Matrix for Bend 90 Degrees (MJ x MJ)</p>	<p>Shop Drawing and/or Brochure</p>	

Reducer	Kindly see attached Material Code Matrix for Reducer (FE x FE)	Shop Drawing and/or Brochure	
	Kindly see attached Material Code Matrix for Reducer (FE x MJ)	Shop Drawing and/or Brochure	
	Kindly see attached Material Code Matrix for Reducer (MJ x MJ)	Shop Drawing and/or Brochure	
	Kindly see attached Material Code Matrix for Reducer (MJ x FE)	Shop Drawing and/or Brochure	
Solid Tee	Kindly see attached Material Code Matrix for Solid Tee (FE x FE)	Shop Drawing and/or Brochure	
	Kindly see attached Material Code Matrix for Solid Tee (MJ x FE)	Shop Drawing and/or Brochure	
	Kindly see attached Material Code Matrix for Solid Tee (MJ x MJ)	Shop Drawing and/or Brochure	

Split Tee	Kindly see attached Material Code Matrix for Split Tee (MJ x FE)	Shop Drawing and/or Brochure	
	Kindly see attached Material Code Matrix for Split Tee (MJ x MJ)	Shop Drawing and/or Brochure	
Sleeve Type Coupling	COUPLING:PIPE;SLV,50,MJ,F/UPVCP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SLV,75,MJ,F/UPVCP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SLV,100,MJ,F/UPVCP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SLV,150,MJ,F/UPVCP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SLV,200,MJ,F/UPVCP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SLV,200,MJ,F/SP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SLV,250,MJ,F/UPVCP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SLV,300,MJ,F/UPVCP	Shop Drawing and/or Brochure	
Split Sleeve Coupling	COUPLING:PIPE;SPLIT SLV,430,MJ	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SPLIT SLV,448,MJ	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SPLIT SLV,480,MJ	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SPLIT SLV,492,MJ	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SPLIT SLV,530,MJ	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SPLIT SLV,570,MJ	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SPLIT SLV,1140,MJ	Shop Drawing and/or Brochure	
	COUPLING:PIPE;SPLIT SLV,1280,MJ	Shop Drawing and/or Brochure	
COUPLING:PIPE;SPLIT SLV,1590,MJ	Shop Drawing and/or Brochure		

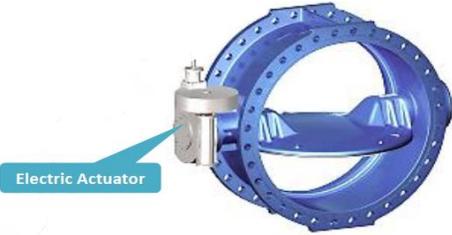
Universal Coupling	COUPLING:PIPE;UNIVSL,75,MJ,DI	Shop Drawing and/or Brochure	
	COUPLING:PIPE;UNIVSL,100,MJ,DI,F/PVC/ACP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;UNIVSL,150,MJ,DI,F/ACP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;UNIVSL,150,MJ,DI,F/P/C/D	Shop Drawing and/or Brochure	
	COUPLING:PIPE;UNIVSL,200,MJ,DI,F/ACP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;UNIVSL,200,MJ,F/PVC/CIP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;UNIVSL,250,MJ,DI,F/ACP	Shop Drawing and/or Brochure	
	COUPLING:PIPE;UNIVSL,250,F/P/C/D	Shop Drawing and/or Brochure	
Adapter, FExPE	ADAPTER:PIPE;50,FEXPE,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;75,FEXPE,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;100,FEXPE,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;150,FEXPE,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;200,FEXPE,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;250,FEXPE,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;300,FEXPE,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;100,FEXPE,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;150,FEXPE,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;200,FEXPE,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;250,FEXPE,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;300,FEXPE,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;100,FEXPE,F/CIP/DIP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;150,FEXPE,F/CIP/DIP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;200,FEXPE,F/CIP/DIP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;250,FEXPE,F/CIP/DIP	Shop Drawing and/or Brochure	
ADAPTER:PIPE;300,FEXPE,F/CIP/DIP	Shop Drawing and/or Brochure		

Conventional Adapter, FE/MJ	ADAPTER:PIPE;50,FEXMJ,CONVTNL,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;75,FEXMJ,CONVTNL,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;100,FEXMJ,CONVTNL F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;150,FEXMJ,CONVTNL,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;200,FEXMJ,CONVTNL,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;250,FEXMJ,CONVTNL,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;300,FEXMJ,CONVTNL,F/UPVCP	Shop Drawing and/or Brochure	
Flexible Adapter, FE/MJ	ADAPTER:PIPE;FLEX,50,FEXMJ,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;FLEX,75,FEXMJ,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;FLEX,100,FEXMJ,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;FLEX,150,FEXMJ,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;FLEX,200,FEXMJ,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;FLEX,250,FEXMJ,F/UPVCP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;FLEX,300,FEXMJ,F/UPVCP	Shop Drawing and/or Brochure	
Universal Adapter, FE,MJ	ADAPTER:PIPE;UNIV,75,FEXMJ,DI,F/P/C/D	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,100,FEXMJ,DI,F/P/C/A	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,150,FEXMJ,DI,F/P/C/D	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,150,FEXMJ,DI,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,200,FEXMJ,DI,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,200,FEXMJ,DI,F/P/C/D	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,250,FEXMJ,DI,F/P/C/D	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,250,FEXMJ,DI,F/ACP	Shop Drawing and/or Brochure	
	ADAPTER:PIPE;UNIV,300,FEXMJ,DI,F/CIP/DIP	Shop Drawing and/or Brochure	
ADAPTER:PIPE;UNIV,300,FEXMJ,F/ACP/UPVCP	Shop Drawing and/or Brochure		
CI Saddle Clamp	Kindly see attached Material Code Matrix for CI/DI Saddle Clamp	Shop Drawing and/or Brochure	
DI Saddle Clamp	Kindly see attached Material Code Matrix for CI/DI Saddle Clamp	Shop Drawing and/or Brochure	

Blank Saddle Clamp	CLAMP:PIPE;BLNK SDL,50,DI,F/UPVCP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,75,DI,F/UPVCP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,100,DI,F/UPVCP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,150,DI,F/UPVCP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,200,DI,F/UPVCP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,250,DI,F/UPVCP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,300,DI,F/UPVCP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,100,CI,F/ACP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,150,CI,F/ACP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,200,CI,F/ACP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,250,CI,F/ACP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,300,CI,F/ACP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,100,CI,F/CIP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,150,CI,F/CIP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,200,CI,F/CIP	Shop Drawing and/or Brochure	
	CLAMP:PIPE;BLNK SDL,250,CI,F/CIP	Shop Drawing and/or Brochure	
CLAMP:PIPE;BLNK SDL,300,CI,F/CIP	Shop Drawing and/or Brochure		
Flange Ring	FLANGE:PIPE;RNG,2IN,FTE	Shop Drawing and/or Brochure	
	FLANGE:PIPE;RNG,3IN,FTE	Shop Drawing and/or Brochure	
	FLANGE:PIPE;RNG,4IN,FTE	Shop Drawing and/or Brochure	
	FLANGE:PIPE;RNG,6IN,FTE	Shop Drawing and/or Brochure	
Flange Blind	FLANGE:BLIND;50 DIA	Shop Drawing and/or Brochure	
	FLANGE:BLIND;75 DIA	Shop Drawing and/or Brochure	
	FLANGE:BLIND;100 DIA	Shop Drawing and/or Brochure	
	FLANGE:BLIND;150 DIA	Shop Drawing and/or Brochure	
	FLANGE:BLIND;200 DIA	Shop Drawing and/or Brochure	
	FLANGE:BLIND;250 DIA	Shop Drawing and/or Brochure	
FLANGE:BLIND;300 DIA	Shop Drawing and/or Brochure		

End Cap	Kindly see attached Material Code Matrix for CI/DI End Cap	Shop Drawing and/or Brochure	
<b>SEWER FITTINGS</b>			
PVC Wye	WYE:PIPE;SGL,150,SLVT,PVC	Shop Drawing and/or Brochure	
	WYE:PIPE;SGL, 200X150,SLVT,PVC	Shop Drawing and/or Brochure	
	WYE:PIPE;DBL,6 FT DIA,SLVT*	Shop Drawing and/or Brochure	
Bend Pipe	END:PIPE;150,45 DEG,PVC,SLVT	Shop Drawing and/or Brochure	
Clean Out Cap	CAP:CLN OUT,150,PVC,W/PLG	Shop Drawing and/or Brochure	
<b>COMPOSITE WATERTIGHT MANHOLE</b>	COVER:MANHOLE;WATERTGHT,760,COMPOSITE	Shop Drawing and/or Brochure	
	KIT:SEAL;WATERTGHT MANHOLE,F/75 DIA	Shop Drawing and/or Brochure	
	KIT:SEAL;WATERTGHT MANHOLE,F/100 DIA	Shop Drawing and/or Brochure	
	KIT:SEAL;WATERTGHT MANHOLE,F/150 DIA	Shop Drawing and/or Brochure	
	KIT:SEAL;WATERTGHT MANHOLE,F/200 DIA	Shop Drawing and/or Brochure	
	CHAMBER:MANHOLE;WATERTGHT,600X800	Shop Drawing and/or Brochure	

**VALVES**

Concentric Butterfly Valves	VALVE:BUTTERFLY;350,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;400,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;450,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;500,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;600,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;700,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;800,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;900,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;1000,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;1200,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;1400,FE,PN16,CI	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;1600,FE,PN16,CI	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;1800,FE,PN16,CI	Shop Drawing and/or Brochure	
Eccentric Butterfly Valves	VALVE:BUTTERFLY;200,ECC,FE,PN 16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;350,ECC,PN16,W/ELEC ACTR	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;350,ECC,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;450,ECC,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;500,ECC,PN16,W/ELEC ACTR	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;500,ECC,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;600,ECC,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;800,ECC,FE,PN16	Shop Drawing and/or Brochure	
	VALVE:BUTTERFLY;900,ECC,FE,PN16	Shop Drawing and/or Brochure	

Gate Valves	VALVE:GATE;50,FE	Shop Drawing and/or Brochure	
	VALVE:GATE;75,FE	Shop Drawing and/or Brochure	
	VALVE:GATE;100,FE	Shop Drawing and/or Brochure	
	VALVE:GATE;150,FE	Shop Drawing and/or Brochure	
	VALVE:GATE;200,FE	Shop Drawing and/or Brochure	
	VALVE:GATE;250,FE	Shop Drawing and/or Brochure	
	VALVE:GATE;300,FE	Shop Drawing and/or Brochure	
	VALVE:GATE;400,FE	Shop Drawing and/or Brochure	
Check Valves	VALVE:CHECK;50,FE,F/WATER METER	Shop Drawing and/or Brochure	
	VALVE:CHECK;75,FE,F/WATER METER	Shop Drawing and/or Brochure	
	VALVE:CHECK;100,FE,F/WATER METER	Shop Drawing and/or Brochure	
	VALVE:CHECK;150,FE,F/WATER METER	Shop Drawing and/or Brochure	
	VALVE:CHECK;200,FE,F/WATER METER	Shop Drawing and/or Brochure	
	VALVE:CHECK;250,FE,F/WATER METER	Shop Drawing and/or Brochure	
	VALVE:CHECK;300,FE,F/WATER METER	Shop Drawing and/or Brochure	
	VALVE:CHECK;1-1/2IN,FTE,BRS	Shop Drawing and/or Brochure	

# MATERIAL CODE MATRIX

## STAINLESS STEEL REPAIR CLAMP

Repair Clamp								
Material	Length	Diameter						
		50	75	100	150	200	250	300
ACP	300	-	-	445	478	490	447	449
	500	-	-	477	479	446	448	1886
CIP	300	-	-	457	459	461	463	465
	500	-	483	458	460	462	464	466
UPVC	300	474	476	470	485	486	-	1849
	500	475	489	471	472	473	487	488

### CI/DI 45 DEGREES BEND

Bend		Size (mm)						
Angle	End Type	50	75	100	150	200	250	300
45	FE x FE	185	188	190	172	176	179	182
	FE x MJ	230	233	215	219	223	225	227
	MJ x MJ	298	302	279	283	288	290	294

### CI/DI 90 DEGREES BEND

Bend		Size (mm)						
Angle	End Type	50	75	100	150	200	250	300
90	FE x FE	186	189	170	173	177	180	183
	FE x MJ	231	234	216	220	224	226	228
	MJ x MJ	299	303	280	284	285	291	295

## CI/DI REDUCER

		Smaller End												
End Type		FE/FE						FE/MJ						
Larger End	Size (mm)	50	75	100	150	200	250	50	75	100	150	200	250	
	75	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	1145*	11	-	-	-	-	1179*	1180	-	-	-	-	
	150	1146*	1147	1811	-	-	-	-	1181	1182	-	-	-	
	200	-	1150	1148	1149	-	-	-	-	1184	1185	-	-	
	250	-	-	1151	1152	1153	-	-	-	1186*	1187	1188*	-	
	300	-	-	1154	1155	1156	1157	-	-	1190	1189	1192	1193	

		Smaller End												
End Type		MJ/FE						MJ/MJ						
Larger End	Size (mm)	50	75	100	150	200	250	50	75	100	150	200	250	
	75	-	-	-	-	-	-	1268*	-	-	-	-	-	-
	100	-	1220	-	-	-	-	-	1254	-	-	-	-	
	150	-	1221	-	-	-	-	-	1257 1270*	1255	-	-	-	
	200	-	1224	1222	1223	-	-	-	1260	1258	1259	-	-	
	250	-	-	1225	1226	1227	-	-	-	1261	1262 1269	1263	-	
	300	-	1232*	1228*	1229	1230	1231	-	-	1264	1265	1266	1267	

## CI/DI SOLID TEE

Tee		Branch						
End Type		FE/FE						
Run	Size (mm)	50	75	100	150	200	250	300
	50	1413	-	-	-	-	2254*	-
	75	1414	1415	-	-	-	-	-
	100	1388	1389	1387	-	-	-	-
	150	1392	1393	1390	1391	-	-	-
	200	1397	1398	1394	1395	1396	-	-
	250	-	1403	1399	1400	1401	1402	-
	300	-	1409*	1404	1405	1406	1407*	1408

Tee (F/UPVC)		Branch						
End Type		MJ/FE						
Run	Size (mm)	50	75	100	150	200	250	300
	50	1487	-	-	-	-	-	-
	75	1488	1489	-	-	-	-	-
	100	1462	1463	1461	-	-	-	-
	150	1466	1467	1464	1465	-	-	-
	200	1471	1472	1468	1469	1470	-	-
	250	1477	1478	1473	1474	1475	1476	-
	300	1484	1485	1479	1480	1481	1482	1483

Tee (F/ACP)		Branch						
End Type		MJ/FE						
Run	Size (mm)	50	75	100	150	200	250	300
	50	-	-	-	-	-	-	-
	75	-	-	-	-	-	-	-
	100	-	1438	1436	-	-	-	-
	150	-	-	1439	1440	-	-	-
	200	-	-	-	-	1443	-	-
	250	-	-	-	-	1445	-	-
	300	-	-	-	-	1448*	1449*	1450

### CI/DI SOLID TEE

Tee (F/CIP)		Branch						
End Type		MJ/FE						
Run	Size (mm)	50	75	100	150	200	250	300
	50	-	-	-	-	-	-	-
	75	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-
	200	-	-	-	-	-	-	-
	250	-	-	-	1452	1453	1454	-
	300	-	-	-	-	1458*	1459	1460

Tee		Branch						
End Type		MJ/MJ						
Run	Size (mm)	50	75	100	150	200	250	300
	50	1512*	-	-	-	-	-	-
	75	-	1514	-	-	-	-	-
	100	-	1494	1493	-	-	-	-
	150	-	1497	1495	1496	-	-	-
	200	-	1502	1498	1499	1500	-	-
	250	-	-	1504	1503	1505	1506	-
	300	-	-	1507	1508	1509	1510	1511

### CI/DI SPLIT TEE

Split Tee		Branch							
End Type		MJ/FE				MJ/MJ			
Run	Size (mm)	50	75	100	150	50	75	100	150
	100	1586	-	-	-	1625	-	-	-
	150	1590	1591	-	-	1629	1630	-	-
	200	1595	1596	1592	-	1633	1634	1631	-
	250	1600	1601	1597	-	-	-	-	-
	300	-	-	1602	1603	-	1623	-	-

### CI/DI SADDLE CLAMP

DI		Pipe Size (mm)						
Pipe Material	Tap Size (inch)	50	75	100	150	200	250	300
GIP	3/4	3855	3856	3853	3854	-	-	-
PVC	3/4	557*	558*	495	545	4068	552	4066
	1	-	559	542	544	4067	2003	554
	1 1/2	-	-	543	546	497	553	555
	2	-	-	4371	496	550	2575	556
CI		Pipe Size (mm)						
Pipe Material	Tap Size (inch)	100	150	200	250	300		
ACP	3/4	500	503	506	510	513		
	1	501	504	507	511	514		
	1 1/2	502	505	508	491	515		
	2	4373	4375	509	512	516		
CIP	3/4	519	522	525	529	533		
	1	520	523	526	530	534		
	1 1/2	521	492	527	531	535		
	2	4372	524	528	532	536		

---

**END CAP**

<b>End Cap</b>	<b>Pipe Size (mm)</b>						
<b>Pipe Material</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>
<b>ACP</b>	-	-	705	706	707	708	709
<b>CIP/DIP</b>	-	719	710	711	712	713	714
<b>PVC</b>	725	726	720	721	722	723	724









## WATER PRODUCTION

No.	Description	Technical Specifications	Sample Quantity	Submittals Needed (Sample and qty; test certificates, etc.)	Procedural test and duration (lab test, jar test, plant trial, etc)
1	ALUMINUM CHLOROHYDRATE	SOLUTION:CHEMICAL/TRADE NAME:ALUMINUM CHLOROHYDRATE; WEIGHT:23 % AL <sub>2</sub> O <sub>3</sub> BY WEIGHT; ADDITIONAL FEATURES:COLORLESS,1.33 TO 1.34 SPECIFIC GRAVITY; APPICATION:FOR COAGULATION	500 ML	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt; Jar test & Plant trial (for new suppliers) - up to 14 days upon approval of TOR and MOA
2	ALUMINUM SULFATE	COMPOUND:CHEMICAL; TYPE:LIQUID; CHEMICAL/TRADE NAME:ALUMINUM SULFATE; CONCENTRATION:50 % SOLIDS; APPLICATION:FOR COAGULATION; APPLICABLE STANDARD:AWWA B403; ADDITIONAL FEATURES:COLORLESS TO AMBER,8 TO 8.5 % ALUMINUM OXIDE BY WEIGHT,0.20 TO 2.5 % BASICITY,1.32 TO 1.326 SPECIFIC GRAVITY AT 30 DEG C	500 ML	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt (can reach up to month depending on other samples for furnace)
3	ANTISCALANT	SOLUTION:CHEMICAL/TRADE NAME:ANTISCALANT,ADDITIONAL FEATURES:CLEAR COLORLESS TO PALE YELLOW LIQUID,1.14 TO 1.36 SPECIFIC GRAVITY,APPICATION:FOR REVERSE OSMOSIS	500 ML	COA, SDS, TDS	
4	CALCIUM HYPOCHLORITE	COMPOUND:CHEMICAL; TYPE:LIQUID; CHEMICAL/TRADE NAME:CALCIUM HYPOCHLORITE; CONCENTRATION:8-10% AVAILABLE CHLORINE,APPLICATION:FOR WATER TREATMENT,ADDITIONAL FEATURES:FREE FROM VISIBLE	500 ML	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt
5	CITRIC ACID	ACID:TYPE:CITRIC,CHEMICAL FORMULA:C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> ,CONCENTRATION:50 % SOLUTION,APPEARANCE:COLORLESS LIQUID,ADDITIONAL	500 ML	COA, SDS, TDS	
6	HYDROCHLORIC ACID	ACID:TYPE:HYDROCHLORIC,CHEMICAL FORMULA:HCL,GRADE:TECHNICAL,CONCENTRATION:15-18 PERCENT BY WEIGHT,APPEARANCE:WATER-WHITE TO STRAW YELLOW LIQUID WITH PUNGENT ODOR,APPLICATION:FOR	500 ML	COA, SDS, TDS	
7	HYDROCHLORIC ACID	ACID:TYPE:HYDROCHLORIC,CHEMICAL FORMULA:HCL,GRADE:TECHNICAL,CONCENTRATION:30-33%,APPEARANCE:LIGHT YELLOW FUMING LIQUID,APPLICATION:FOR MICROFILTRATION ACID CLEANING,ADDITIONAL FEATURES:1.160-1.164 SPECIFIC GRAVITY	500 ML	COA, SDS, TDS	
8	LIQUID CHLORINE	CHEMICAL:TYPE:LIQUID; CHEMICAL NAME:CHLORINE; COLOR:AMBER; APPLICABLE STANDARD:AWWA B301; ADDITIONAL FEATURES:LESS THAN 150 PPM BY WEIGHT		COA, SDS, TDS	

9	POLY ALUMINUM CHLORIDE	COMPOUND:CHEMICAL; TYPE:LIQUID; CHEMICAL/TRADE NAME:POLYALUMINUM CHLORIDE; CONCENTRATION:30 % SOLIDS; APPLICATION:FOR COAGULATION; APPLICABLE STANDARD:AWWA B408; ADDITIONAL FEATURES:CLEAR TO SLIGHTLY HAZY,9 TO 10 % ALUMINUM OXIDE BY WEIGHT,35 TO 50	500 ML	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt
10	POLYACRYLAMIDE	COMPOUND:CHEMICAL; TYPE:POLYMER NON-IONIC; CHEMICAL/TRADE NAME:POLYACRYLAMIDE; CONCENTRATION:15 % MOISTURE CONTENT; APPLICATION:FOR COAGULANT AID OR FLOCCULANT AID; APPLICABLE STANDARD:AWWA B453; ADDITIONAL FEATURES:WHITE TO OFF WHITE,FREE FLOWING	50 GRAMS	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt
11	POLYDADMAC	COMPOUND:CHEMICAL ;TYPE:POLYMER CATIONIC; CHEMICAL/TRADE NAME:POLYDADMAC; CONCENTRATION:20 TO 25 % ACTIVE DADMAC; APPLICATION:AS COAGULANT AID OR FLOCCULANT; APPLICABLE STANDARD:AWWA B451; ADDITIONAL FEATURES:COLORLESS TO AMBER,1.02 TO 1.06 SPECIFIC GRAVITY	500 ML	COA, SDS, TDS, & %Na Analysis from 3rd party for every batch or lot of delivery; sample to be taken from delivery	Physical and Chemical analysis - 1 to 5 days upon receipt
12	POTASSIUM PERMANGANATE	COMPOUND:CHEMICAL; CHEMICAL/TRADE NAME:POTASSIUM PERMANGANATE; CONCENTRATION:98 % KMNO4; GRADE:TECHNICAL; APPLICATION:FOR WATER TREATMENT; APPLICABLE STANDARD:AWWA B603; ADDITIONAL FEATURES:DARK PURPLE OR BRONZE LIKE RHOMBIC CRYSTAL,FREE	500 GRAMS	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt
13	SODIUM BISULFITE	COMPOUND:CHEMICAL;TYPE:LIQUID,CHEMICAL/TRADE NAME:SODIUM BISULFITE,CONCENTRATION:38 TO 42 %,ADDITIONAL FEATURES:CLEAR LIGHT YELLOW LIQUID WITHOUT	500 ML	COA, SDS, TDS	
14	SODIUM HYDROXIDE	COMPOUND:CHEMICAL ;CHEMICAL/TRADE NAME:SODIUM HYDROXIDE; CONCENTRATION:50 % NAOH; APPLICATION:FOR WATER TREATMENT; APPLICABLE STANDARD:AWWA B501; ADDITIONAL FEATURES:1.50 TO 1.54 SPECIFIC GRAVITY	500 ML	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt
15	SODIUM HYDROXIDE	COMPOUND:CHEMICAL;CHEMICAL/TRADE NAME:SODIUM HYDROXIDE,CONCENTRATION:24 TO 26% PURITY, ADDITIONAL FEATURES:1.257 TO 1.279 SPECIFIC GRAVITY	500 ML	COA, SDS, TDS	
16	SODIUM HYDROXIDE	COMPOUND:CHEMICAL;CHEMICAL/TRADE NAME:SODIUM HYDROXIDE,CONCENTRATION:30% PURITY, ADDITIONAL FEATURES:1.266 TO 1.280 SPECIFIC GRAVITY	500 ML	COA, SDS, TDS	
<b>WASTEWATER</b>					
	<b>Description</b>	<b>Long Description</b>	<b>Sample Quantity</b>	<b>Submittals Needed (Sample and qty; test certificates, etc.)</b>	<b>Procedural test and duration (lab test, jar test, plant trial, etc)</b>
17	CALCIUM HYPOCHLORITE	COMPOUND:CHEMICAL;TYPE:GRANULAR,CHEMICAL/TRADE NAME:CALCIUM HYPOCHLORITE,CONCENTRATION:65 TO 75 % AVAILABLE CHLORINE,APPLICATION:FOR WASTEWATER TREATMENT, APPEARANCE: GRANULAR	500 GRAMS	COA, SDS, TDS	

18	POWDERED ACTIVATED CARBON	CHEMICAL:CHEMICAL NAME:POWDERED ACTIVATED CARBON, PHYSICAL APPEARANCE: BLACK PELLETT POWDER, ODOR: ODORLESS, CONTAINER SIZE:25 KG/BAG	500 GRAMS	COA, SDS, TDS	
19	SODIUM HYPOCHLORITE	COMPOUND:CHEMICAL;TYPE:LIQUID,CHEMICAL/TRADE NAME:SODIUM HYPOCHLORITE,CONCENTRATION:7-9% , SPECIFIC GRAVITY: 1.122±0.1APPLICATION:FOR WASTEWATER TREATMENT, PACKAGING: CHEMICAL RESISTANT	500 ML	COA, SDS, TDS	
20	ANIONIC POLYACRLAMIDE	COMPOUND;CHEMICAL, PHYSICAL APPERANCE: HIGH MOLECULAR WEIGHT,LOW CHARGED, DISSOLUTION TIME:90 MIN,(5g/L IN DI WATER), PHYSICAL FORM:WHITE POWDER, CHARGE DENSITY:MEDIUM, VISCOSITY:@ 5.0 g/L; 950 cps @2.5 g/L: 450 cps @ 1.0 g/L: 150 cps, STABILITY OF DI SOLUTIONS:5 days, PACKAGING:WATER RESISTANT. 25KG PER SACKS	500 GRAMS	COA, SDS, TDS	
21	CATIONIC POLYACRYLAMIDE	COMPOUND;CHEMICAL, MOLECULAR WEIGHT: 8.5-11.0 MILLION, CATIONICITY: 30-45%, SOLID CONTENT: >90%, VISCOSITY:@0.5%: 25-60 CPS, DISSOLUTION TIME: <60 MINUTES, POLYMER TURBIDITY: @0.5%:<15 NTU	500 GRAMS	COA, SDS, TDS	
22	ALUMINUM SULFATE	COMPOUND:CHEMICAL; TYPE:LIQUID; CHEMICAL/TRADE NAME:ALUMINUM SULFATE; CONCENTRATION:50 % SOLIDS; APPLICATION:FOR COAGULATION; APPLICABLE STANDARD:AWWA B403; ADDITIONAL FEATURES:COLORLESS TO AMBER,8 TO 8.5 % ALUMINUM OXIDE BY WEIGHT,0.20 TO 2.5 % BASICITY,1.32 TO 1.326 SPECIFIC GRAVITY AT 30 DEG C	500 ML	COA, SDS, TDS	Physical and Chemical analysis - 1 to 5 days upon receipt (can reach up to month depending on other samples for furnace)