## ZenTek Consultants ZenPipe for Civil 3D Pressure Networks



Croses	Tees	Wyes	Bends	Caps	Plugs	Reducers	Corporation Stops	Buterfly Valves	Check Valves	Globe Valves
8" Cross	1/8" Tee	1/8" Wye	1"-11-1/4° Bend	1/8" Cap	1/4" Plug	1/2"x1/4" Reducer	3/4" Corporation Stop to 4" Line	1-1/4" Butterfly Valve	1/4" Check Valve	1/8" Globe Valve
'4" Cross	1/4" Tee	1/4" Wye	1"-22-1/2° Bend	1/4" Cap	3/8" Plug	1/2"x3/8" Reducer	3/4" Corporation Stop to 6" Line	1-1/2" Butterfly Valve	3/8" Check Valve	1/4" Globe Valve
8" Cross	3/8" Tee	3/8" Wye	1"-45° Bend	3/8" Cap	1/2" Plug	3/4"x3/8" Reducer	3/4" Corporation Stop to 8" Line	2" Butterfly Valve	1/2" Check Valve	3/8" Globe Valve
/2"x1/4" Cross	1/2"x1/4" Tee	1/2"x1/4" Wye	1"-90° Bend	1/2" Cap	3/4" Plug	3/4"x1/2" Reducer	3/4" Corporation Stop to 10" Line	2-1/2" Butterfly Valve	3/4" Check Valve	1/2" Globe Valve
/2"x3/8" Cross	1/2"x3/8" Tee	1/2"x3/8" Wye	1-1/2"-11-1/4° Bend	3/4" Cap	1" Plug	1"x1/2" Reducer	3/4" Corporation Stop to 12" Line	3" Butterfly Valve	1" Check Valve	3/4" Globe Valve
/2" Cross	1/2" Tee	1/2" Wye	1-1/2"-22-1/2° Bend	1" Cap	1-1/4" Plug	1"x3/4" Reducer	3/4" Corporation Stop to 14" Line	3-1/2" Butterfly Valve	1-1/4" Check Valve	1" Globe Valve
/4"x3/8" Cross	3/4"x3/8" Tee	3/4"x3/8" Wye	1-1/2"-45° Bend	1-1/4" Cap	1-1/2" Plug	1-1/4"x1/2" Reducer	3/4" Corporation Stop to 16" Line	1/8" Check Valve	1-1/2" Check Valve	1-1/4" Globe Valve
/4"x1/2" Cross	3/4"x1/2" Tee	3/4"x1/2" Wye	1-1/2"-90° Bend	1.5" Cap	2" Plug	1-1/4"x3/4" Reducer	3/4" Corporation Stop to 18" Line	,	2" Check Valve	1-1/2" Globe Valve
/4" Cross	3/4" Tee	3/4" Wye	1-1/4"-11-1/4° Bend	2" Cap	2-1/2" Plug	1-1/4"x1" Reducer	3/4" Corporation Stop to 20" Line		2-1/2" Check Valve	2" Globe Valve
"x1/2" Cross	1"x1/2" Tee	1"x1/2" Wye	1-1/4"-22-1/2° Bend	2-1/2" Cap	3" Plug	1-1/2"x1/2" Reducer	3/4" Corporation Stop to 24" Line		3" Check Valve	2-1/2" Globe Valve
"x3/4" Cross	1"x3/4" Tee	1"x3/4" Wye	1-1/4"-45° Bend	3" Cap	3-1/2" Plug	1-1/2"x3/4" Reducer	1" Corporation Stop to 4" Line		3-1/2" Check Valve	3" Globe Valve
" Cross	1" Tee	1" Wye	1-1/4"-90° Bend	3-1/2" Cap	0 =7= 1 109	1-1/2"x1" Reducer	1" Corporation Stop to 6" Line		5 1/2 SHOOK TUNE	3-1/2" Globe Valve
-1/4"x1/2" Cross	1-1/4"x1/2" Tee	1-1/4"x1/2" Wye	1/2"-11-1/4° Bend	3 1/2 Cup		1 1/2 X1 Reducer	1 corporation stop to a Line			5 1/L CIOSC VAIVE
-1/4"x3/4" Cross	1-1/4"x3/4" Tee	1-1/4"x3/4" Wye	1/2"-12-1/2° Bend							
-1/4"x1" Cross	1-1/4"x1" Tee	1-1/4"x1" Wye	1/2"-45° Bend							
-1/4" Cross	1-1/4" Tee	1-1/4" Wye	1/2"-90° Bend							
-1/2"x1/2" Cross	1-1/2"x1/2" Tee	1-1/2"x1/2" Wye	1/4"-11-1/4° Bend							
-1/2"x1" Cross	1-1/2 X1/2 Tee 1-1/2"x3/4" Tee	1-1/2"x3/4" Wye	1/4"-22-1/2° Bend							
-1/2"x1-1/4" Cross	1-1/2"x1" Tee	1-1/2"x1" Wye	1/4"-45° Bend							
-1/2" Cross	1-1/2 X1 Tee	1-1/2 X1 Wye	1/4"-90° Bend							
"x1/2" Cross	1-1/2" Tee	1-1/2" Wye	1/8"-11-1/4° Bend							
"x3/4" Cross	2"x1/2" Tee	2"x1/2" Wye	1/8"-22-1/2° Bend							
"x1" Cross	2"x3/4" Tee	2"x3/4" Wye	1/8"-45° Bend							
"x1-1/4" Cross	2"x1" Tee	· · · · · · · · · · · · · · · · · · ·	1/8"-90° Bend							
"x1-1/4" Cross		2"x1" Wye								
" Cross	2"x1-1/4" Tee	2"x1-1/4" Wye	2"-11-1/4° Bend							
	2"x1-1/2" Tee	2"x1-1/2" Wye	2"-22-1/2° Bend							
-1/2"x1" Cross	2" Tee	2" Wye	2"-45° Bend							
-1/2"x1-1/4" Cross	2-1/2"x1" Tee	2-1/2"x1" Wye	2"-90° Bend							
-1/2"x1-1/2" Cross	2-1/2"x1-1/4" Tee	2-1/2"x1-1/4" Wye	2-1/2"-11-1/4° Bend							
-1/2"x2" Cross	2-1/2"x1-1/2" Tee	2-1/2"x1-1/2" Wye	2-1/2"-22-1/2° Bend							
-1/2" Cross	2-1/2"x2" Tee	2-1/2"x2" Wye	2-1/2"-45° Bend							
"x1" Cross	2-1/2" Tee	2-1/2" Wye	2-1/2"-90° Bend							
"x1-1/4" Cross	3"x1" Tee	3"x1" Wye	3"-11-1/4° Bend							
"x1-1/2" Cross	3"x1-1/4" Tee	3"x1-1/4" Wye	3"-12-1/2° Bend							
"x2" Cross	3"x1-1/2" Tee	3"x1-1/2" Wye	3"-45° Bend							
"x2-1/2" Cross	3"x2" Tee	3"x2" Wye	3"-90° Bend							
" Cross	3"x2-1/2" Tee	3"x2-1/2" Wye	3-1/2"-11-1/4° Bend							
-1/2"x1-1/2" Cross	3" Tee	3" Wye	3-1/2"-12-1/2° Bend							
-1/2"x2" Cross	3-1/2"x1-1/2" Tee	3-1/2"x1-1/2" Wye	3-1/2"-45° Bend							
-1/2"x2-1/2" Cross	3-1/2"x2" Tee	3-1/2"x2" Wye	3-1/2"-90° Bend							
-1/2"x3" Cross	3-1/2"x2-1/2" Tee	3-1/2"x2-1/2" Wye	3/4"-11-1/4° Bend							
-1/2" Cross	3-1/2"x3" Tee	3-1/2"x3" Wye	3/4"-22-1/2° Bend							
-1/2"x3/4" Cross	3-1/2" Tee	3-1/2" Wye	3/4"-45° Bend							
			3/4"-90° Bend							
			3/8"-11-1/4° Bend							
			3/8"-22-1/2° Bend							
			3/8"-45° Bend							
			3/8"-90° Bend							

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Crosses	Tees	Wyes	Bends	Caps	Reducers	Plugs	Fire Hydrants	FD Connections	Pipe	Air Release Valves	Butterfly Valves	Check Valves	Gate Valves
4" Cross	4" Tee	4" Wye	4"-11-1/4° Bend	4" Cap	6"x4" Reducer	4" Plug	Fire Hydrant - 2.0' Depth	Fire Department Connection - 2.0' Depth	4'' W	4" Air Release Valve	4" Butterfly Valve	4" Check Valve	4" Gate Valve
6"x4" Cross	6"x4" Tee	6"x4" Wye	4"-22-1/2° Bend	6" Cap	8"x4" Reducer	6" Plug	Fire Hydrant - 2.5' Depth	Fire Department Connection - 2.5' Depth	6'' W	6" Air Release Valve	6" Butterfly Valve	6" Check Valve	6" Gate Valve
6" Cross	6" Tee	6" Wye	4"-45° Bend	8" Cap	8"x6" Reducer	8" Plug	Fire Hydrant - 3.0' Depth	Fire Department Connection - 3.0' Depth	8'' W	8" Air Release Valve	8" Butterfly Valve	8" Check Valve	8" Gate Valve
8"x4" Cross	8"x4" Tee	8"x4" Wye	4"-90° Bend	10'' Cap	10"x4" Reducer	10" Plug	Fire Hydrant - 3.5' Depth	Fire Department Connection - 3.5' Depth	10" W	10" Air Release Valve	10" Butterfly Valve	10" Check Valve	10" Gate Valve
8"x6" Cross	8"x6" Tee	8"x6" Wye	6"-11-1/4° Bend	12" Cap	10"x6" Reducer	12" Plug	Fire Hydrant - 4.0' Depth	Fire Department Connection - 4.0' Depth	12" W	12" Air Release Valve	12" Butterfly Valve	12" Check Valve	12" Gate Valve
8" Cross	8" Tee	8" Wye	6"-22-1/2° Bend	14" Cap	10"x8" Reducer	14" Plug	Fire Hydrant - 4.5' Depth	Fire Department Connection - 4.5' Depth	14" W	14" Air Release Valve	14" Butterfly Valve	14" Check Valve	14" Gate Valve
10"x4" Cross	10"x4" Tee	10"x4" Wye	6"-45° Bend	16" Cap	12"x4" Reducer	16" Plug	Fire Hydrant - 5.0' Depth	Fire Department Connection - 5.0' Depth	16" W	16" Air Release Valve	16" Butterfly Valve	16" Check Valve	16" Gate Valve
10"x6" Cross	10"x6" Tee	10"x6" Wye	6"-90° Bend	18" Cap	12"x6" Reducer	18" Plug	Fire Hydrant - 5.5' Depth	Fire Department Connection - 5.5' Depth	18" W	18" Air Release Valve	18" Butterfly Valve	18" Check Valve	18" Gate Valve
10"x8" Cross	10"x8" Tee	10"x8" Wye	8"-11-1/4° Bend	20" Cap	12"X8" Reducer	20" Plug	Fire Hydrant - 6.0' Depth	Fire Department Connection - 6.0' Depth	20" W	20" Air Release Valve	20" Butterfly Valve	20" Check Valve	20" Gate Valve
10'' Cross	10" Tee	10" Wye	8"-22-1/2° Bend	24'' Cap	12"x10" Reducer	24" Plug	Fire Hydrant - 6.5' Depth	Fire Department Connection - 6.5' Depth	24" W	24" Air Release Valve	24" Butterfly Valve	24" Check Valve	24" Gate Valve
12"x4" Cross	12"x4" Tee	12"x4" Wye	8"-45° Bend		14"X6" Reducer								
12"x6" Cross	12"x6" Tee	12"x6" Wye	8''-90° Bend		14"X8" Reducer								
12"x8" Cross	12"x8" Tee	12"x8" Wye	10"-11-1/4° Bend		14"X10" Reducer								
12"x10" Cross	12"x10" Tee	12"x10" Wye	10"-22-1/2° Bend		14"X12" Reducer								
12" Cross	12" Tee	12" Wye	10"-45° Bend		16"X6" Reducer								
14"x4" Cross	14"x4" Tee	14"x6" Wye	10"-90° Bend		16"X8" Reducer								
14"x6" Cross	14"x6" Tee	14"x8" Wye	12"-11-1/4° Bend		16"X10" Reducer								
14"x8" Cross	14"x8" Tee	14"x10" Wye	12"-22-1/2° Bend		16"X12" Reducer								
14"x10" Cross	14"x10" Tee	14"x12" Wye	12"-45° Bend		16"X14" Reducer								
14"x12" Cross	14"x12" Tee	14" Wye	12"-90° Bend		18"X6" Reducer								
14" Cross	14" Tee	16"x6" Wye	14"-11-1/4° Bend		18"X8" Reducer								
16"x4" Cross	16"x4" Tee	16"x8" Wye	14"-22-1/2° Bend		18"X10" Reducer								

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Crosses	Tees	Wyes	Bends	Caps	Reducers	Plugs	Fire Hydrants	FD Connections	Pipe	Air Release Valves	Butterfly Valves	Check Valves	Gate Valves
				Сарэ	18"X12"	- Tug5	- The Hydranics	T D COMMECTIONS	TIPC		Datterny valves	- Gricek Valves	Sate valves
16"x6" Cross	10 X0 166	to xto. Mye	14 -42, peua		Reducer								
16"x8" Cross	16"x8" Tee	16"x12" Wye	14"-90° Bend		18"X14" Reducer								
					18"X16"								
16"x10" Cross	16"x10" Tee	16"x14" Wye	16"-11-1/4° Bend		Reducer								
16"x12" Cross	16"x12" Tee	16" Wye	16"-22-1/2° Bend		20"X6"								
	=				Reducer 20"X8"								
16"x14" Cross	16"x14" Tee	18"x6" Wye	16"-45° Bend		Reducer								
16" Cross	16" Tee	18"x8" Wye	16"-90° Bend		20"X10"								
		•			Reducer 20"X12"								
18"x4" Cross	18"x4" Tee	18"x10" Wye	18"-11-1/4° Bend		Reducer								
18"x6" Cross	18"x6" Tee	18"x12" Wye	18"-22-1/2° Bend		20"X14"								
		·			Reducer 20"X16"								
18"x8" Cross	18"x8" Tee	18"x14" Wye	18"-45° Bend		Reducer								
18"x10" Cross	18"x10" Tee	18"x16" Wve	18"-90° Bend		20"X18"								
		·			Reducer 24"X8"								
18"x12" Cross	18"x12" Tee	18" Wye	20"-11-1/4° Bend		Reducer								
18"x14" Cross	18"x14" Tee	20"x8" Wve	ye 20"-22-1/2° Bend		24"X10"								
20 //2 : 0:000		20 %0 1170	e 20"-45° Bend		Reducer 24"X12"								
18"x16" Cross	18"x16" Tee	20"x10" Wye			Reducer								
18" Cross	18" Tee	20"x12" Wye	20"-90° Bend		24"X14"								
10 0.000	10 100	Zo XIZ II,e	20 Jo Bona		Reducer 24"X16"								
20"x4" Cross	20"x4" Tee	20"x14" Wye	24"-11-1/4° Bend		Reducer								
20"x6" Cross	20"x6" Tee	20"x16" Wve	24"-22-1/2° Bend		24"X18"								
20 X0 C1033	20 70 100	20 110 1170	21 22 1/2 56110		Reducer 24"X20"								
20"x8"ross	20"x8" Tee	20"x18" Wye	24"-45° Bend		Reducer								
20"x10" Cross	20"x10" Tee	20" Wye	24"-90° Bend		reducer								
20"x12" Cross	20"x12" Tee	24"x8" Wye											
20"x14" Cross													
20"x16" Cross													
20"x18" Cross													
20" Cross		24"x16" Wye											
24"x4" Cross 24"x6" Cross													
24"x8" Cross													
24"x10" Cross		21 WYC											
24"x12" Cross													
24"x14" Cross	24"x14" Tee												
24"x16" Cross	24"x16" Tee												
24"x18" Cross													
24"x20" Cross													
24" Cross	24" Tee												