

Table 1. ASTM F405-05 Pipe Stiffness Test Results

Pipe stiffness results								
Sample	Test Specimen	Test Specimen Size		Test Specimen Crushing Load	Load at		Stiffness at	
		Length	Width (OD)		5%	10%	5%	10%
		(mm)	(mm)		(N)	(N)	(MPa)	(MPa)
SS (Flat section)	SN 2-1	153.48	53.60	1368.00	105.00	405.00	0.28	0.55
SS (Circular section)	SN 2-2	153.48	124.00	1054.00	143.00	304.00	0.16	0.17
	SN 3-2	153.48	126.00	1207.00	178.00	359.00	0.18	0.19
	Average	153.48	125.00	1130.50	160.50	331.50	0.17	0.18
SSE	SN 2-1	153.48	49.62	1729.00	121.00	708.00	0.35	1.04
	SN 3-1	152.55	49.00	1724.00	105.00	559.00	0.32	0.84
	SN 3-2	151.00	57.91	1310.00	396.00	733.00	0.97	0.90
	Average	152.34	52.18	1587.67	207.33	666.67	0.55	0.93
SFE	SN 1-2	153.48	54.32	1604.00	596.00	1249.00	1.47	1.54
	SN 1-3	151.64	54.32	1640.00	338.00	1189.00	0.85	1.49
	SN 1-4	153.48	54.32	1484.00	454.00	1142.00	1.12	1.41
	Average	152.87	54.32	1576.00	462.67	1193.33	1.15	1.48
FC (Middle)	SN 1-3	185.00	114.37	344.00	200.00	337.00	0.19	0.16
	SN 2-3	187.00	114.14	373.00	227.00	360.00	0.22	0.17
	SN 3-3	183.00	114.61	331.00	225.00	318.00	0.22	0.15
	Average	185.00	114.37	349.33	217.33	338.33	0.21	0.16
FC (End)	SN 1-2	160.00	114.37	210.90	139.00	199.00	0.15	0.11
	SN 2-2	160.00	114.14	210.00	116.00	191.00	0.13	0.11
	SN 3-2	155.00	114.61	150.00	122.00	148.00	0.14	0.08
	Average	158.33	114.37	190.30	125.67	179.33	0.14	0.10

SS Stealth Spout
 SSE Stealth Spout Extension
 SFE Stealth Flow Extension
 FC Flexible Connector

Table 2. ASTM F405-05 Pipe Brittleness Test Results

Pipe brittleness results at -23 degrees C			
Sample	Test Specimen	Sample Observation After Testing	Pass/Fail per ASTM F405
SS	SN 1-1	No cracks seen	Passed
	SN 1-2	No cracks seen	Passed
	SN 3-1	No cracks seen	Passed
SSE	SN 1-1	No cracks seen	Passed
	SN 1-2	No cracks seen	Passed
	SN 2-2	No cracks seen	Passed
SFE	SN 1-1	No cracks seen	Passed
	SN 2-1	No cracks seen	Passed
	SN 3-1	No cracks seen	Passed
FC	SN 1-1	No cracks seen	Passed
	SN 2-1	Pinhole seen but no cracking	Passed
	SN 3-1	No cracks seen	Passed

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 SSE Stealth Spout Extension
 SFE Stealth Flow Extension
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