

Tube Testers



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Tube Testers

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●-Recommended

○-Suitable

Models 5373 & 5373A Air Injected Tube Testers

Tube Size

- 0.500" to 2.500"
(12.7 to 63.5mm) OD

Elliott's Air Injected Tube Testers use supplied air pressure up to 125 PSI (8.5 bar) to quickly and easily test for leaks in tubes. Insert the seals into the corresponding tube ends and press the air valve, automatically locking the seals into the tubes. A drop of air pressure indicates a tube leak. The Air Injected Tube Testers save time. An operator is able to test up to ten tubes per minute.



Features & Benefits:

- Reliable - most commonly used method.
- Fast acting - lower labor cost.
- Seals sized to tube ID - positive seal.

Specifications:

- Air Requirements:
 - Minimum 40 PSI (2.7 bar)
 - Maximum 125 PSI (8.5 bar)

How To Order:

1. Specify tube size(s) to be tested. *See table on opposite page.*
2. Choose the appropriate tube tester:
 - 0.500" to 1.250" (12.7 to 31.7mm) tube OD Model 5373 Air Injected Tube Tester Package.
 - 1.375" to 2.500" (34.9 to 63.5mm) tube OD Model 5373A Air Injected Tube Tester Package.
3. Choose spares & accessories.

Both the 5373 and the 5373A Air Injected Tube Tester Packages include:

- Injection Gun
- Plugging Gun
- Regulator Assembly
- (3) Support Tube Sets
- Tool Box

To accommodate all tube sizes 0.500" to 1.250" OD (12.7 to 31.75mm) order Tube Tester Kit 5373-6-20. This kit includes the 5373 tube tester and two each of the seals covering that tube range. To accommodate all tube sizes 1.375" to 2.500" OD (34.9 to 63.5mm) order Tube Tester Kit 5373A22-40. This kit includes the 5373A tube tester and two each of the seals covering that tube range.

Spares & Accessories:

- Seal & Washer Sets - Recommended quantity of 1 set per 150 tubes to be tested. *See table on opposite page for part numbers.*
- Compression & Support Tubes: Ideal for making testing easier on channel head and water box applications.
- Support Tube Extensions: Ideal for making testing easier on channel head and water box applications.

Models 5373 & 5373A Air Injected Tube Testers

5373 Seal Sets		
Tube OD	BWG	Part #
1/2" (12.7mm)	8-9	
	10-11	
	12-13	5373-250
	14-15	5373-300
	16-17	5373-340
	18-19	5373-370
	20-24	5373-400
5/8" (15.9mm)	8-9	5373-270
	10-11	5373-340
	12-13	5373-370
	14-15	5373-440
	16-17	5373-470
	18-19	5373-500
3/4" (19.1mm)	20-24	5373-530
	8-9	5373-400
	10-11	5373-440
	12-13	5373-500
	14-15	5373-530
	16-17	5373-590
	18-19	5373-620
7/8" (22.2mm)	20-24	5373-650
	8-9	5373-530
	10-11	5373-590
	12-13	5373-620
	14-15	5373-690
	16-17	5373-720
	18-19	5373-750
1" (25.4mm)	20-24	5373-780
	8-9	5373-650
	10-11	5373-690
	12-13	5373-750
	14-15	5373-800
	16-17	5373-840
	18-19	5373-870
Recommended quantity of 1 set for 150 tubes		

5373 Seal Sets		
Tube OD	BWG	Part #
1-1/8" (28.6mm)	8-9	5373-780
	10-11	5373-840
	12-13	5373-870
	14-15	5373-940
	16-17	5373-970
	18-19	5373-1000
	20-24	5373-1030
1-1/4" (31.8mm)	8-9	5373-900
	10-11	5373-940
	12-13	5373-1000
	14-15	5373-1070
	16-17	5373-1090
	18-19	5373-1120
	20-24	5373-1150
5373A Seal Sets		
1-3/8" (34.9mm)	8-9	5373-1050
	10-11	5373-1090
	12-13	5373-1120
	14-15	5373-1190
	16-17	5373-1230
	18-19	5373-1250
	20-24	5373-1280
1-1/2" (38.1mm)	8-9	5373-1150
	10-11	5373-1190
	12-13	5373-1250
	14-15	5373-1310
	16-17	5373-1340
	18-19	5373-1370
	20-24	5373-1400
1-5/8" (41.3mm)	8-9	5373-1280
	10-11	5373-1340
	12-13	5373-1370
	14-15	5373-1440
	16-17	5373-1470
	18-19	5373-1500
	20-24	5373-1530
Recommended quantity of 1 set for 150 tubes		

5373A Seal Sets		
Tube OD	BWG	Part #
1-3/4" (44.5mm)	8-9	5373-1400
	10-11	5373-1470
	12-13	5373-1500
	14-15	5373-1550
	16-17	5373-1590
	18-19	5373-1620
	20-24	5373-1650
2" (50.8mm)	8-9	5373-1650
	10-11	5373-1700
	12-13	5373-1750
	14-15	5373-1800
	16-17	5373-1840
	18-19	5373-1870
	20-24	5373-1900
2-1/4" (34.9mm)	8-9	5373-1900
	10-11	5373-1950
	12-13	5373-2000
	14-15	5373-2050
	16-17	5373-2090
	18-19	5373-2120
	20-24	5373-2150
2-1/2" (63.5mm)	8-9	5373-2150
	10-11	5373-2200
	12-13	5373-2250
	14-15	5373-2290
	16-17	5373-2340
	18-19	5373-2370
	20-24	5373-2400
Recommended quantity of 1 set for 150 tubes		

Note: Seal sets contain two seals and four washers. Seal sets 5373-250 through 5373-440 contain four seals and four washers. Standard seal material is neoprene. Viton® seals are also available. Contact Customer Service for details.

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Models 5373 & 5373A Air Injected Tube Testers

Spares & Accessories

Replacement Support Tube Sets & Optional Extensions					
Tube ID Range	4" (Std.) (101.6mm) Part #	12" (305mm) Part #	24" (610mm) Part #	36" (914mm) Part #	48" (1,219mm) Part #
0.280"-0.480" (7.1-12.3mm)	5373ST1	5373ST1-12	5373ST1-24	5373ST1-36	5373ST1-48
0.490"-0.830" (12.4-21.2mm)	5373ST2	5373ST2-12	5373ST2-24	5373ST2-36	5373ST2-48
0.840"-1.230" (21.3-31.2mm)	5373ST3	5373ST3-12	5373ST3-24	5373ST3-36	5373ST3-48
1.240"-1.630" (31.5-41.4mm)	5373ST4	5373ST4-12	5373ST4-24	5373ST4-36	5373ST4-48
1.640"-2.030" (41.6-51.6mm)	5373ST5	5373ST5-12	5373ST5-24	5373ST5-36	5373ST5-48
2.040"-2.530" (51.8-64.3mm)	5373ST6	5373ST6-12	5373ST6-24	5373ST6-36	5373ST6-48

Model 5556 Vacuum Tube Tester

Tube Size

- 0.280" to 1.450"
(7.1 to 36.8mm) ID

The Elliott 5556 Vacuum Tube Tester allows tubes with debris inside the tube to be tested efficiently. The tester utilizes a filter system to prevent debris from harming the tool. Filters are easily cleaned or replaced as necessary.

Operating the Vacuum Tube Tester is simple. With the supply air connected, press the control valve button. An integral vacuum generator quickly and efficiently evacuates the tube. Any loss of vacuum indicated on the tester's gauge indicates a tube leak. The tapered seal design allows the operator to test a large range of tube IDs without changing to different seals, washers, or support rods.

Features & Benefits:

- Quick method to check leaky tubes - less labor cost.
- Easy to operate - no special skills required.
- Less seal sets required - lower investment in stock.

How To Order:

1. Specify tube size(s) to be tested. *See table on the right.*
2. Order the 5556 Vacuum Tube Tester.
3. Choose spares & accessories.

The 5556 Vacuum Tube Tester Package includes:

- Vacuum Testing Gun
- (2) Seal and Washer Sets
- T-Handle Plugging Tool
- Tool Box

Spares & Accessories:

- Seal & Washer Sets - Recommended quantity of 1 set per 150 tubes to be tested. *See table on the right for part numbers.*
- Support Tube Extensions: Available for water box and channel head applications in lengths of 12", 24", 36", and 48". *See table on the right for part numbers.*
- 5556FE Filter Element: Quantity required depends on cleanliness of tube.



Specifications:

- Air Requirements:
 - Minimum 40 PSI (2.7 bar)
 - Maximum 130 PSI (8.9 bar)

Tube ID Range	Seal & Washer Set Part #
0.280"-0.690" (7.1-17.5mm)	5556S1
0.640"-1.450" (16.2-36.8mm)	5556S2
Recommended quantity of 1 set for 150 tubes	

Note: Standard seal material is neoprene.
Viton® seals are also available.
Contact Customer Service for details.

Support Tube Extensions				
Tube ID Range	12" (305mm) Part #	24" (610mm) Part #	36" (914mm) Part #	48" (1,219mm) Part #
0.280"-0.690" (7.1-17.5mm)	5556ST1-12	5556ST1-24	5556ST1-36	5556ST1-48
0.640"-1.450" (16.2-36.8mm)	5556ST2-12	5556ST2-24	5556ST2-36	5556ST2-48

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Models 5285 & 5523 High Pressure Test Plugs

Tube Size

- 0.470" to 41.530"
(11.9 to 1054.9mm) ID

The High Pressure Test Plugs are ported to allow hydro testing of open end tubes and pipes at high pressure. The long wearing seals provide easy plug installation and removal.

The unique design provides uniform Gripper expansion assuring 100% contact between the Gripper and the pipe or tube wall. This results in lower installation torque requirements and will minimize tube wall damage.

All metal bearing surfaces are case hardened for increased abrasion resistance. Cadmium plating on all metal components provides increased corrosion protection. The brass washer and Fel-pro C5A lubricant protect threads and facilitate plug installation and removal. The oversized washer prevents the plug from falling into the pipe or tube.

Features & Benefits:

- Engineered design- eliminates welding.
- Replaceable seals- easy to maintain.
- Quick installation- reduces labor cost.

How To Order:

1. Specify tube size(s) to be tested. *See tables on pages 7-8.*
2. Choose the appropriate test plug:
0.470" to 0.929" (11.9 to 23.6mm) tube ID 5285 High Pressure Test Plug.
0.930" to 41.530" (23.6 to 1,054.9mm) tube ID 5523 High Pressure Test Plug.
3. Determine quantity needed.
4. Choose spares & accessories.

Spares & Accessories:

- Replacement Seals: Contact Customer Service for details.
- Gripper Sets: Contact Customer Service for details.



Specifications:

- Refer to tables on pages 7-8 for maximum test pressure requirements for the size specified.

Models 5285 & 5523 High Pressure Test Plugs

Tube ID Range		HP Test Plug Part #	Max. Test Pressure (PSI)	Thread Size N.P.T.	Spares	
Inch	mm				Seal	Spring
0.470-0.499	11.9-12.7	5285-470	6500	1/8M	5285-470URS	5285-470SPR
0.500-0.529	12.7-13.4	5285-500	6500	1/8M	5285-500URS	5285-500SPR
0.530-0.559	13.5-14.2	5285-530	6500	1/8M	5285-530URS	5285-530SPR
0.560-0.599	14.2-15.2	5285-560	6500	1/8M	5285-560URS	5285-560SPR
0.600-0.619	15.2-15.7	5285-600	6500	1/8M	5285-600URS	5285-600SPR
0.620-0.649	15.8-16.5	5285-620	6500	1/8M	5285-620URS	5285-620SPR
0.650-0.679	16.5-17.3	5285-650	6500	1/8M	5285-650URS	5285-650SPR
0.680-0.719	17.3-18.3	5285-680	6500	1/8M	5285-680URS	5285-680SPR
0.720-0.749	18.3-19.0	5285-720	6500	1/8M	5285-720URS	5285-720SPR
0.750-0.779	19.1-19.8	5285-750	6500	1/8M	5285-750URS	5285-750SPR
0.780-0.809	19.8-20.6	5285-780	6500	1/8M	5285-780URS	5285-780SPR
0.810-0.829	20.6-21.1	5285-810	6500	1/8M	5285-810URS	5285-810SPR
0.830-0.869	21.1-22.1	5285-830	6500	1/8M	5285-830URS	5285-830SPR
0.870-0.899	22.1-22.8	5285-870	6500	1/8M	5285-870URS	5285-870SPR
0.900-0.929	22.9-23.6	5285-900	6500	1/8M	5285-900URS	5285-900SPR
0.930-1.000	23.6-25.4	5523-1P80	8600	1/8M	5523-1P80URS	5523-1P80SPR
1.010-1.090	25.7-27.7	5523-1P40	6200	1/8M	5523-1P40URS	5523-1P40SPR
1.070-1.200	27.2-30.5	5523-15PXXS	13900	1/8M	5523-15PXXSURS	5523-15PXXSSPR
1.130-1.240	28.7-31.5	5523-125P160	9600	1/4M	5523-125P160URS	5523-125P160SPR
1.250-1.330	31.8-33.8	5523-125P80	7200	1/4M	5523-125P80URS	5523-125P80SPR
1.310-1.430	33.3-36.3	5523-15P160	9400	1/4M	5523-15P160URS	5523-15P160SPR
1.410-1.490	35.8-37.9	5523-125P10	3900	3/8M	5523-125P10URS	5523-125P10SPR
1.470-1.610	37.3-40.7	5523-2PXXS	12000	3/8M	5523-2PXXSURS	5523-2PXXSSPR
1.580-1.660	40.1-42.2	5523-15P40	4600	3/8M	5523-15P40URS	5523-15P40SPR
1.660-1.770	42.2-45.0	5523-2P160	9200	3/8M	5523-2P160URS	5523-2P160SPR
1.740-1.910	44.2-48.5	5523-25PXXS	12600	3/8M	5523-25PXXSURS	5523-25PXXSSPR
1.910-1.990	48.5-50.6	5523-2P80	5600	3/8M	5523-2P80URS	5523-2P80SPR
1.980-2.060	50.3-52.3	5523-198T	*	3/8M	5523-198TURS	5523-198TSPR
2.040-2.120	51.8-53.9	5523-2P40	3900	3/8M	5523-2P40URS	5523-2P40SPR
2.100-2.220	53.3-56.3	5523-25P160	8200	3/8M	5523-25P160URS	5523-25P160SPR
2.220-2.300	56.4-58.4	5523-2P5	1600	3/8M	5523-2P5URS	5523-2P5SPR
2.270-2.450	57.7-62.2	5523-3PXXS	11100	3/8M	5523-3PXXSURS	5523-3PXXSSPR
2.440-2.540	62.2-64.5	5523-25P40	4200	1/2M	5523-25P40URS	5523-25P40SPR
2.530-2.630	64.3-66.8	5523-253T	*	1/2M	5523-253TURS	5523-253TSPR
2.600-2.740	66.0-69.6	5523-3P160	7800	1/2M	5523-3P160URS	5523-3P160SPR
2.680-2.780	68.1-70.6	5523-25P5	1600	1/2M	5523-25P5URS	5523-25P5SPR
2.700-2.890	68.6-73.4	5523-35PXXS	10200	1/2M	5523-35PXXSURS	5523-35PXXSSPR
2.870-2.980	72.9-75.7	5523-3P80	5200	1/2M	5523-3P80URS	5523-3P80SPR
2.960-3.070	75.2-78.0	5523-296T	*	1/2M	5523-296TURS	5523-296TSPR

URS suffix designates seal material to be urethane. NRS suffix designates seal material to be neoprene. RS suffix designates seal material can be urethane or neoprene, whichever is more readily available.

Note: * Sizes that do not have a test pressure listed differ from standard pipe sizes. These plug sizes are normally used to test tubing. For use of these sizes in tubing with a minimum yield strength of 35ksi, the maximum test pressure is estimated by the test pressure listed for the equivalent or next larger pipe O.D. with the equivalent or next thinner wall thickness. The test pressure for higher and lower strength tubes will differ proportionally. The maximum test pressure for higher strength tubes must never exceed the highest test pressure listed for the equivalent or next larger pipe size. NEVER use a test pressure greater than the weakest component in the system can safely handle.

Models 5285 & 5523 High Pressure Test Plugs

Tube ID Range		HP Test Plug Part #	Max. Test Pressure (PSI)	Thread Size N.P.T.	Spares	
Inch	mm				Seal	Spring
3.040-3.140	77.2-79.8	5523-3P40	3700	1/2M	5523-3P40URS	5523-3P40SPR
3.120-3.320	79.3-84.3	5523-4PXXS	9500	1/2M	5523-4PXXSURS	5523-4PXXSSPR
3.230-3.340	82.0-84.8	5523-3P10	2000	1/2M	5523-3P10URS	5523-3P10SPR
3.330-3.440	84.6-87.4	5523-35P80	4800	1/2M	5523-35P80URS	5523-35P80SPR
3.410-3.570	86.6-90.7	5523-4P160	7400	1/2M	5523-4P160URS	5523-4P160SPR
3.520-3.630	89.4-92.2	5523-35P40	3300	1/2M	5523-35P40URS	5523-35P40SPR
3.600-3.740	91.4-95.0	5523-4P120	6000	1/2M	5523-4P120URS	5523-4P120SPR
3.730-3.840	94.7-97.5	5523-35P10	1700	1/2M	5523-35P10URS	5523-35P10SPR
3.800-3.910	96.5-99.3	5523-4P80	4500	1/2M	5523-4P80URS	5523-4P80SPR
3.900-4.010	99.1-101.9	5523-390T	*	1/2M	5523-390TURS	5523-390TSPR
4.000-4.110	101.6-104.4	5523-4P40	3100	1/2M	5523-4P40URS	5523-4P40SPR
4.030-4.250	102.4-108.0	5523-5PXXS	8500	1/2M	5523-5PXXSURS	5523-5PXXSSPR
4.230-4.340	107.4-110.2	5523-4P10	1500	1/2M	5523-4P10URS	5523-4P10SPR
4.280-4.470	108.7-113.5	5523-5P160	7000	3/4M	5523-5P160NRS	5523-5P160SPR
4.420-4.580	112.3-116.3	5523-442T	*	3/4M	5523-442TNRS	5523-442TSPR
4.530-4.690	115.1-119.1	5523-5P120	5500	3/4M	5523-5P120NRS	5523-5P120SPR
4.660-4.820	118.4-122.4	5523-466T	*	3/4M	5523-466TNRS	5523-466TSPR
4.780-4.910	121.4-124.7	5523-5P80	4000	3/4M	5523-5P80NRS	5523-5P80SPR
4.870-5.110	123.7-129.8	5523-6PXXS	8200	3/4M	5523-6PXXSNRS	5523-6PXXSSPR
5.020-5.140	127.5-130.6	5523-5P40	2700	3/4M	5523-5P40NRS	5523-5P40SPR
5.140-5.260	130.6-133.6	5523-514T	*	3/4M	5523-514TNRS	5523-514TSPR
5.160-5.370	131.1-136.4	5523-6P160	6700	3/4M	5523-6P160NRS	5523-6P160SPR
5.270-5.390	133.9-136.9	5523-5P10	1400	3/4M	5523-5P10NRS	5523-5P10SPR
5.320-5.440	135.1-138.2	5523-5P5	1100	3/4M	5523-5P5NRS	5523-5P5SPR
5.340-5.510	135.6-140.0	5523-534T	*	3/4M	5523-534TNRS	5523-534TSPR
5.470-5.640	138.9-143.3	5523-6P120	5100	3/4M	5523-6P120NRS	5523-6P120SPR
5.620-5.760	142.7-146.3	5523-562T	*	3/4M	5523-562TNRS	5523-562TSPR
5.730-5.870	145.5-149.1	5523-6P80	3900	3/4M	5523-6P80NRS	5523-6P80SPR
5.880-6.030	149.4-153.2	5523-588T	*	3/4M	5523-588TNRS	5523-588TSPR
6.040-6.170	153.4-156.7	5523-6P40	2500	3/4M	5523-6P40NRS	5523-6P40SPR
6.180-6.320	157.0-160.5	5523-618T	*	3/4M	5523-618TNRS	5523-618TSPR
6.330-6.470	160.8-164.3	5523-6P10	1200	3/4M	5523-6P10NRS	5523-6P10SPR
6.380-6.520	162.1-165.6	5523-6P5	940	3/4M	5523-6P5NRS	5523-6P5SPR
6.530-6.670	165.9-169.4	5523-653T	*	3/4M	5523-653TNRS	5523-653TSPR
6.680-6.820	169.7-173.2	5523-668T	*	3/4M	5523-668TNRS	5523-668TSPR
6.780-7.040	172.2-178.8	5523-8P160	6400	3/4F	5523-8P160URS	5523-8P160SPR
6.850-7.090	174.0-180.1	5523-8PXXS	6200	3/4F	5523-8PXXSURS	5523-8PXXSSPR
6.970-7.200	117.0-182.9	5523-8P140	5700	3/4F	5523-8P140URS	5523-8P140SPR

URS suffix designates seal material to be urethane. NRS suffix designates seal material to be neoprene. RS suffix designates seal material can be urethane or neoprene, whichever is more readily available.

Note: * Sizes that do not have a test pressure listed differ from standard pipe sizes. These plug sizes are normally used to test tubing. For use of these sizes in tubing with a minimum yield strength of 35ksi, the maximum test pressure is estimated by the test pressure listed for the equivalent or next larger pipe O.D. with the equivalent or next thinner wall thickness. The test pressure for higher and lower strength tubes will differ proportionally. The maximum test pressure for higher strength tubes must never exceed the highest test pressure listed for the equivalent or next larger pipe size. NEVER use a test pressure greater than the weakest component in the system can safely handle.

Models 5285 & 5523 High Pressure Test Plugs

Tube ID Range		HP Test Plug Part #	Max. Test Pressure (PSI)	Thread Size N.P.T.	Spares	
Inch	mm				Seal	Spring
7.160-7.370	181.9-187.2	5523-8P120	5100	3/4F	5523-8P120URS	5523-8P120SPR
7.300-7.480	185.4-190.0	5523-730T	*	3/4F	5523-730TURS	5523-730TSPR
7.410-7.590	188.2-192.8	5523-8P100	4100	3/4F	5523-8P100URS	5523-8P100SPR
7.600-7.750	193.0-196.9	5523-8P80	3400	3/4F	5523-8P80URS	5523-8P80SPR
7.690-7.840	195.3-199.1	5523-769T	*	3/4F	5523-769TURS	5523-769TSPR
7.780-7.930	197.6-201.4	5523-8P60	2800	3/4F	5523-8P60URS	5523-8P60SPR
7.870-8.020	199.9-203.7	5523-787T	*	3/4F	5523-787TURS	5523-787TSPR
7.950-8.100	201.9-205.7	5523-8P40	2200	3/4F	5523-8P40URS	5523-8P40SPR
8.040-8.190	204.2-208.0	5523-8P30	1900	3/4F	5523-8P30URS	5523-8P30SPR
8.100-8.250	205.7-209.6	5523-8P20	1700	3/4F	5523-8P20URS	5523-8P20SPR
8.200-8.350	208.3-212.1	5523-820T	*	3/4F	5523-820TURS	5523-820TSPR
8.300-8.450	210.8-214.6	5523-8P10	980	3/4F	5523-8P10URS	5523-8P10SPR
8.380-8.530	212.9-216.7	5523-8P5	720	3/4F	5523-8P5URS	5523-8P5SPR
9.530-9.800	242.1-248.9	5523-10P80	3264	3/4M	5523-10P80RS	5523-10P80SPR
9.720-10.25	246.8-260.3	5523-10P40	1966	3/4M	5523-10P40RS	5523-10P40SPR
9.990-10.21	253.8-259.3	5523-10PXS	2725	3/4M	5523-10PXSR	5523-10PXSSPR
11.34-11.64	288.0-295.7	5523-12P80	3184	3/4M	5523-12P80RS	5523-12P80SPR
11.72-11.97	297.7-304.0	5523-12PXS	2282	3/4M	5523-12PXSR	5523-12PXSSPR
11.91-12.13	302.5-308.1	5523-12P40	1840	3/4M	5523-12P40RS	5523-12P40SPR
12.97-13.22	329.4-335.8	5523-14PXS	2071	3/4M	5523-14PXSR	5523-14PXSSPR
13.22-13.44	335.8-341.4	5523-14PSTD	1540	3/4M	5523-14PSTD	5523-14PSTDSPR
14.28-14.62	362.7-371.3	5523-16P80	3109	3/4M	5523-16P80RS	5523-16P80SPR
14.97-15.22	380.2-386.6	5523-16P40	1805	3/4M	5523-16P40RS	5523-16P40SPR
15.22-15.44	386.6-392.2	5523-16PSTD	1343	3/4M	5523-16PSTD	5523-16PSTDSPR
16.09-16.45	408.7-417.8	5523-18P80	3069	2M	5523-18P80RS	5523-18P80SPR
16.84-17.11	427.7-434.6	5523-18P40	1803	2M	5523-18P40RS	5523-18P40SPR
16.97-17.22	431.0-437.4	5523-18PXS	1599	2M	5523-18PXSR	5523-18PXSSPR
17.22-17.44	437.4-443.0	5523-18PSTD	1191	2M	5523-18PSTD	5523-18PSTDSPR
17.91-18.32	454.9-465.3	5523-20P80	3035	2M	5523-20P40RS	5523-20P80SPR
18.78-19.09	477.0-484.9	5523-20P40	1713	2M	5523-20P80RS	5523-20P40SPR
18.97-19.25	481.8-489.0	5523-20PXS	1435	2M	5523-20PXSR	5523-20PXSSPR
19.22-19.47	488.2-494.5	5523-20PSTD	1070	2M	5523-20PSTD	5523-20PSTDSPR
19.72-20.16	500.9-512.1	5523-22P80	3009	2M	5523-22P80RS	5523-22P80SPR
20.97-21.25	532.6--539.8	5523-22PXS	1302	2M	5523-22PXSR	5523-22PXSSPR
21.22-21.47	539.0-545.3	5523-22PSTD	971	2M	5523-22PSTD	5523-22PSTDSPR
21.53-21.99	546.9-558.5	5523-24P80	2985	2M	5523-24P40RS	5523-24P80SPR
22.59-22.92	573.8-582.20	5523-24P40	1651	2M	5523-24P80RS	5523-24P40SPR
22.97-23.25	583.4-590.6	5523-24PXS	1191	2M	5523-24PXSR	5523-24PXSSPR
23.22-23.47	589.8-596.1	5523-24PSTD	889	2M	5523-24PSTD	5523-24PSTDSPR

URS suffix designates seal material to be urethane. NRS suffix designates seal material to be neoprene. RS suffix designates seal material can be urethane or neoprene, whichever is more readily available.

Note: * Sizes that do not have a test pressure listed differ from standard pipe sizes. These plug sizes are normally used to test tubing. For use of these sizes in tubing with a minimum yield strength of 35ksi, the maximum test pressure is estimated by the test pressure listed for the equivalent or next larger pipe O.D. with the equivalent or next thinner wall thickness. The test pressure for higher and lower strength tubes will differ proportionally. The maximum test pressure for higher strength tubes must never exceed the highest test pressure listed for the equivalent or next larger pipe size. NEVER use a test pressure greater than the weakest component in the system can safely handle.

Model 5376 Vacuum Joint Tester

Tube Size

- 0.500" to 2.500"
(12.7 to 63.5mm) OD

The Elliott 5376 Vacuum Joint Tester is quick and easy to use, allowing operators to test up to 10 tube joints per minute! Just insert the seal into the tube and press the air control valve to expand the seal inside the tube. Press the control valve to divert the air through a venturi, creating a vacuum around the tube joint area. Any reduction in vacuum shown on the tool's gauge indicates a faulty tube joint.

Features & Benefits:

- Reliable - most commonly used method.
- Seals sized to tube ID - more positive seal.

Specifications:

- Air Requirements:
 - Minimum 40 PSI (2.7 bar)
 - Maximum 125 PSI (8.5 bar)

How To Order:

1. Specify tube size(s) to be tested. *See tables on pages 11-12.*
2. Order the 5376 Vacuum Joint Tester.
3. Choose spares & accessories.

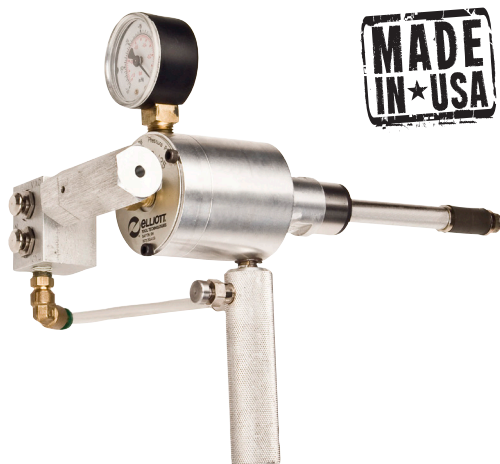
The 5376 Vacuum Joint Tester Package includes:

- Cylinder with Manifold and Manifold Seal
- Vacuum Attachment
- Tool Box

To accommodate tube sizes 0.500" to 1.250" (12.7 to 31.7mm) order tube joint tester kit 5376-6-20. This kit includes the testing gun, one each of the manifolds, manifold seals, and seals covering that tube range.

Spares & Accessories:

- Seal & Washer Sets - Recommended quantity of 1 set per 150 tubes to be tested. A set contains 2 seals and 4 washers. *See tables on pages 11-12.*
- Manifold Seal
- Manifold
- Manifold Extension Set: Ideal when a water box or channel head is present. *See tables on pages 11-12.*



Model 5376 Vacuum Joint Tester

5376 Vacuum Joint Tester					
Tube OD	BWG	Joint Tester Part #	Manifold Part #	Manifold Seal Part #	Seal Part #
1/2" (12.7mm)	12-13	5376-8	5377-8	5378-8	5373-250
	14-15				5373-300
	16-17				5373-340
	18-19				5373-370
	20-24				5373-400
5/8" (15.9mm)	8-9	5376SP10	5377SP10	5378-10	5373-270
	10-11				5373-340
	12-13				5373-370
	14-15				5373-440
	16-17	5376-10	5377-10		5373-470
	18-19				5373-500
	20-24				5373-530
3/4" (19.1mm)	8-9	5376-12	5377-12	5378-12	5373-400
	10-11				5373-440
	12-13				5373-500
	14-15				5373-530
	16-17				5373-590
	18-19				5373-620
	20-24				5373-650
7/8" (22.2mm)	8-9	5376-14	5377-14	5378-14	5373-530
	10-11				5373-590
	12-13				5373-620
	14-15				5373-690
	16-17				5373-720
	18-19				5373-750
	20-24				5373-780
Recommended quantity of 1 seal set for 150 tubes					

Note: Standard seal material is neoprene. Viton® seals are also available. Contact Customer Service for details.

5376 Vacuum Joint Tester					
Tube OD	BWG	Joint Tester Part #	Manifold Part #	Manifold Seal Part #	Seal Part #
1” (25.4mm)	8-9	5376-16	5377-16	5378-16	5373-650
	10-11				5373-690
	12-13				5373-750
	14-15				5373-800
	16-17				5373-840A
	18-19				5373-870A
	20-24				5373-900A
1-1/8” (28.6mm)	8-9	5376-18	5377-18	5378-18	5373-780A
	10-11				5373-840
	12-13				5373-870
	14-15				5373-940
	16-17				5373-970
	18-19				5373-1000
	20-24				5373-1030
1-1/4” (31.8mm)	8-9	5376-20	5377-20	5378-20	5373-900
	10-11				5373-940
	12-13				5373-1000
	14-15				5373-1070
	16-17				5373-1090
	18-19				5373-1120
	20-24				5373-1150
Recommended quantity of 1 seal set for 150 tubes					

Sizes continued on following page

Manifold Extension Sets	
Length	Manifold Extension Part #
1 ft.	5377E1
2 ft.	5377E2
3 ft.	5377E3
4 ft.	5377E4
Note: Ideal when a water box or channel head is present.	

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Model 5376 Vacuum Joint Tester

5376 Vacuum Joint Tester					
Tube OD	BWG	Joint Tester Part #	Manifold Part #	Manifold Seal Part #	Seal Part #
1-3/8" (34.9mm)	8-9	5376-22	5377-22	5378-22	5373-1030
	10-11				5373-1090
	12-13				5373-1120
	14-15				5373-1190
	16-17				5373-1230
	18-19				5373-1250
	20-24				5373-1280
1-1/2" (38.1mm)	8-9	5376-24	5377-24	5378-24	5373-1150
	10-11				5373-1190
	12-13				5373-1250
	14-15				5373-1310
	16-17				5373-1340
	18-19				5373-1370
	20-24				5373-1400
1-5/8" (34.9mm)	8-9	5376-26	5377-26	5378-26	5373-1280
	10-11				5373-1340
	12-13				5373-1370
	14-15				5373-1440
	16-17				5373-1470
	18-19				5373-1500
	20-24				5373-1530
1-3/4" (44.4mm)	8-9	5376-28	5377-28	5378-28	5373-1400
	10-11				5373-1440
	12-13				5373-1500
	14-15				5373-1550
	16-17				5373-1590
	18-19				5373-1620
	20-24				5373-1650
Recommended quantity of 1 seal set for 150 tubes					

Note: Standard seal material is neoprene. Viton® seals are also available. Contact Customer Service for details.

5376 Vacuum Joint Tester					
Tube OD	BWG	Joint Tester Part #	Manifold Part #	Manifold Seal Part #	Seal Part #
2" (50.8mm)	8-9	5376-32	5377-32	5378-32	5373-1650
	10-11				5373-1700
	12-13				5373-1750
	14-15				5373-1800
	16-17				5373-1840
	18-19				5373-1870
	20-24				5373-1900
2-1/4" (57.1mm)	8-9	5376-36	5377-36	5378-36	5373-1900
	10-11				5373-1950
	12-13				5373-2000
	14-15				5373-2050
	16-17				5373-2090
	18-19				5373-2120
	20-24				5373-2150
2-1/2" (63.5mm)	8-9	5376-40	5377-40	5378-40	5373-2150
	10-11				5373-2200
	12-13				5373-2250
	14-15				5373-2290
	16-17				5373-2340
	18-19				5373-2370
	20-24				5373-2400
Recommended quantity of 1 seal set for 150 tubes					

Manifold Extension Sets	
Length	Manifold Extension Part #
1 ft.	5377E1
2 ft.	5377E2
3 ft.	5377E3
4 ft.	5377E4
Note: Ideal when a water box or channel head is present.	

Viton® is a registered trademark of Du pont Dow Elastomers

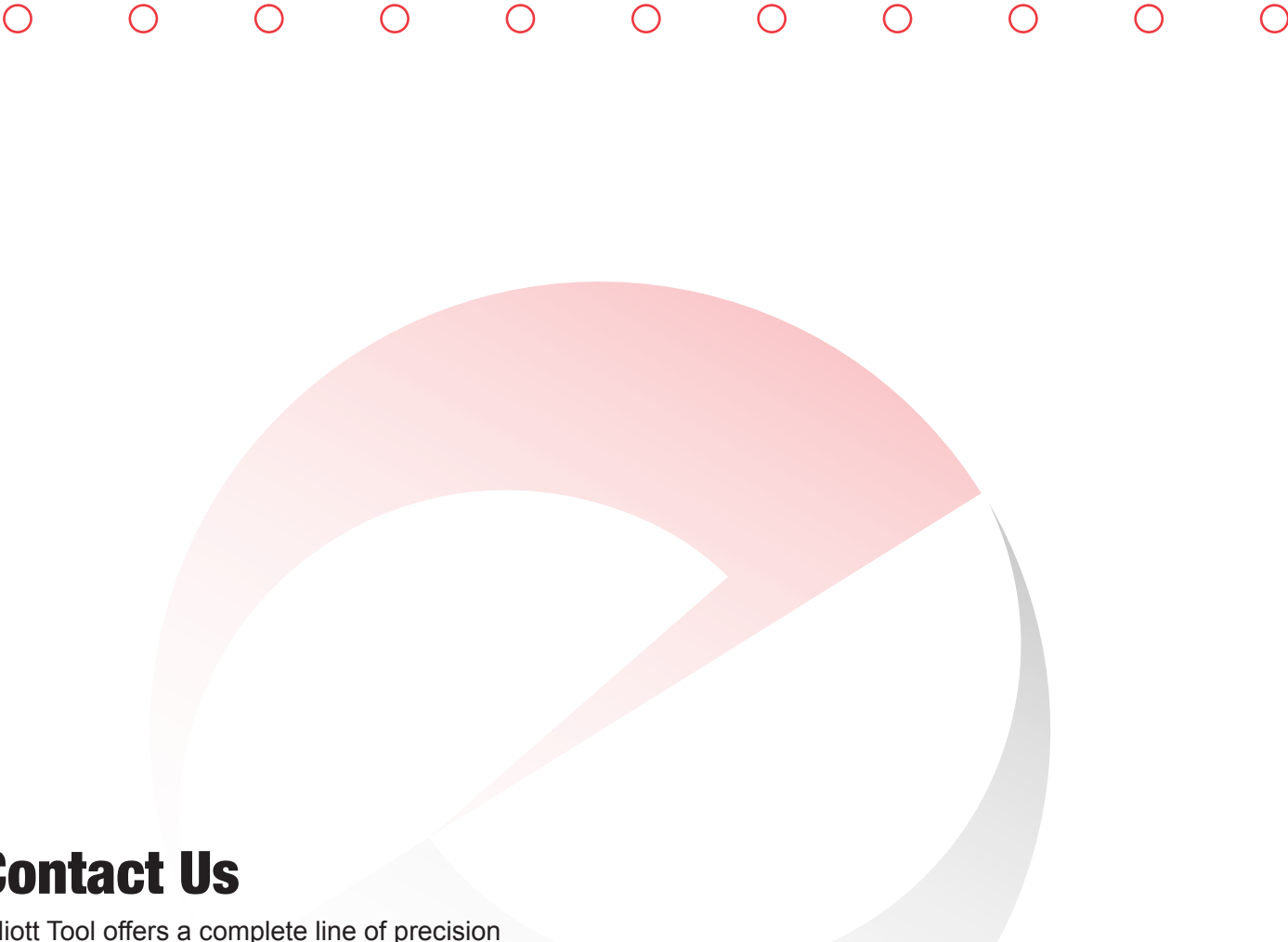
Chart to Determine Inside Diameter of Tubes*

B.W.G.	Wall Thickness	Outside Diameter Tubes																					
		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	2 3/4"	3"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/2"	
		6.35	9.52	12.70	15.87	19.05	22.22	25.40	31.75	38.10	44.45	50.80	57.15	63.50	69.85	76.20	82.55	88.90	95.25	101.60	107.95	114.30	
00	inch	0.380						0.115	0.240	0.490	0.740	0.990	1.240	1.490	1.740	1.990	2.240	2.490	2.740	2.990	3.240	3.490	3.740
	mm	9.65						2.92	6.10	12.45	18.80	25.15	31.50	37.85	44.20	50.55	56.90	63.25	69.60	75.95	82.30	88.65	95.00
0	inch	0.340				0.070	0.195	0.320	0.570	0.820	1.070	1.320	1.570	1.820	2.070	2.320	2.570	2.820	3.070	3.320	3.570	3.820	
	mm	8.64				1.78	4.95	8.13	14.48	20.83	27.18	33.53	39.88	46.23	52.58	58.93	65.28	71.63	77.98	84.33	90.68	97.03	
1	inch	0.300			0.025	0.150	0.275	0.400	0.650	0.900	1.150	1.400	1.650	1.900	2.150	2.400	2.650	2.900	3.150	3.400	3.650	3.900	
	mm	7.62			0.64	3.81	6.99	10.16	16.51	22.86	29.21	35.56	41.91	48.26	54.61	60.96	67.31	73.66	80.01	86.36	92.71	99.06	
2	inch	0.284			0.057	0.182	0.307	0.432	0.682	0.932	1.182	1.432	1.682	1.932	2.182	2.432	2.682	2.932	3.182	3.432	3.682	3.932	
	mm	7.21			1.45	4.62	7.80	10.97	17.32	23.67	30.02	36.37	42.72	49.07	55.42	61.77	68.12	74.47	80.82	87.17	93.52	99.87	
3	inch	0.259			0.107	0.232	0.357	0.482	0.732	0.982	1.232	1.482	1.732	1.982	2.232	2.482	2.732	2.982	3.232	3.482	3.732	3.982	
	mm	6.58			2.72	5.89	9.07	12.24	18.59	24.94	31.29	37.64	43.99	50.34	56.69	63.04	69.39	75.74	82.09	88.44	94.79	101.14	
4	inch	0.238			0.024	0.149	0.274	0.399	0.524	0.774	1.024	1.274	1.524	1.774	2.024	2.274	2.524	2.774	3.024	3.274	3.524	3.774	4.024
	mm	6.05			0.61	3.78	6.96	10.13	13.31	19.66	26.01	32.36	38.71	45.06	51.41	57.76	64.11	70.46	76.81	83.16	89.51	95.86	102.21
5	inch	0.220			0.060	0.185	0.310	0.435	0.560	0.810	1.060	1.310	1.560	1.810	2.060	2.310	2.560	2.810	3.060	3.310	3.560	3.810	4.060
	mm	5.59			1.52	4.70	7.87	11.05	14.22	20.57	26.92	33.27	39.62	45.97	52.32	58.67	65.02	71.37	77.72	84.07	90.42	96.77	103.12
6	inch	0.203			0.094	0.219	0.344	0.469	0.594	0.844	1.094	1.344	1.594	1.844	2.094	2.344	2.594	2.844	3.094	3.344	3.594	3.844	4.094
	mm	5.16			2.39	5.56	8.74	11.91	15.09	21.44	27.79	34.14	40.49	46.84	53.19	59.54	65.89	72.24	78.59	84.94	91.29	97.64	103.99
7	inch	0.180			0.140	0.265	0.390	0.515	0.640	0.890	1.140	1.390	1.640	1.890	2.140	2.390	2.640	2.890	3.140	3.390	3.640	3.890	4.140
	mm	4.57			3.56	6.73	9.91	13.08	16.26	22.61	28.96	35.31	41.66	48.01	54.36	60.71	67.06	73.41	79.76	86.11	92.46	98.81	105.16
8	inch	0.165		0.045	0.170	0.295	0.420	0.545	0.670	0.920	1.170	1.420	1.670	1.920	2.170	2.420	2.670	2.920	3.170	3.420	3.670	3.920	4.170
	mm	4.19		1.14	4.32	7.49	10.67	13.84	17.02	23.37	29.72	36.07	42.42	48.77	55.12	61.47	67.82	74.17	80.52	86.87	93.22	99.57	105.92
9	inch	0.148		0.079	0.204	0.329	0.454	0.579	0.704	0.954	1.204	1.454	1.704	1.954	2.204	2.454	2.704	2.954	3.204	3.454	3.704	3.954	4.204
	mm	3.76		2.01	5.18	8.36	11.53	14.71	17.88	24.23	30.58	36.93	43.28	49.63	55.98	62.33	68.68	75.03	81.38	87.73	94.08	100.43	106.78
10	inch	0.134		0.107	0.232	0.357	0.482	0.607	0.732	0.982	1.232	1.482	1.732	1.982	2.232	2.482	2.732	2.982	3.232	3.482	3.732	3.982	4.232
	mm	3.40		2.72	5.89	9.07	12.24	15.42	18.59	24.94	31.29	37.64	43.99	50.34	56.69	63.04	69.39	75.74	82.09	88.44	94.79	101.14	107.49
11	inch	0.120		0.135	0.260	0.385	0.510	0.635	0.760	1.010	1.260	1.510	1.760	2.010	2.260	2.510	2.760	3.010	3.260	3.510	3.760	4.010	4.260
	mm	3.05		3.43	6.60	9.78	12.95	16.13	19.30	25.65	32.00	38.35	44.70	51.05	57.40	63.75	70.10	76.45	82.80	89.15	95.50	101.85	108.20
12	inch	0.109	0.032	0.157	0.282	0.407	0.532	0.657	0.782	1.032	1.282	1.532	1.782	2.032	2.282	2.532	2.782	3.032	3.282	3.532	3.782	4.032	4.282
	mm	2.77	0.81	3.99	7.16	10.34	13.51	16.69	19.86	26.21	32.56	38.91	45.26	51.61	57.96	64.31	70.66	77.01	83.36	89.71	96.06	102.41	108.76
13	inch	0.095	0.060	0.185	0.310	0.435	0.560	0.685	0.810	1.060	1.310	1.560	1.810	2.060	2.310	2.560	2.810	3.060	3.310	3.560	3.810	4.060	4.310
	mm	2.41	1.52	4.70	7.87	11.05	14.22	17.40	20.57	26.92	33.27	39.62	45.97	52.32	58.67	65.02	71.37	77.72	84.07	90.42	96.77	103.12	109.47
14	inch	0.083	0.084	0.209	0.334	0.459	0.584	0.709	0.834	1.084	1.334	1.584	1.834	2.084	2.334	2.584	2.834	3.084	3.334	3.584	3.834	4.084	4.334
	mm	2.11	2.13	5.31	8.48	11.66	14.83	18.01	21.18	27.53	33.88	40.23	46.58	52.93	59.28	65.63	71.98	78.33	84.68	91.03	97.38	103.73	110.08
15	inch	0.072	0.106	0.231	0.356	0.481	0.606	0.731	0.856	1.106	1.356	1.606	1.856	2.106	2.356	2.606	2.856	3.106	3.356	3.606	3.856	4.106	4.356
	mm	1.83	2.69	5.87	9.04	12.22	15.39	18.57	21.74	28.09	34.44	40.79	47.14	53.49	59.84	66.19	72.54	78.89	85.24	91.59	97.94	104.29	110.64
16	inch	0.065	0.120	0.245	0.370	0.495	0.620	0.745	0.870	1.120	1.370	1.620	1.870	2.120	2.370	2.620	2.870	3.120	3.370	3.620	3.870	4.120	4.370
	mm	1.65	3.05	6.22	9.40	12.57	15.75	18.92	22.10	28.45	34.80	41.15	47.50	53.85	60.20	66.55	72.90	79.25	85.60	91.95	98.30	104.65	111.00
17	inch	0.058	0.134	0.259	0.384	0.509	0.634	0.759	0.884	1.134	1.384	1.634	1.884	2.134	2.384	2.634	2.884	3.134	3.384	3.634	3.884	4.134	4.384
	mm	1.47	3.40	6.58	9.75	12.93	16.10	19.28	22.45	28.80	35.15	41.50	47.85	54.20	60.55	66.90	73.25	79.60	85.95	92.30	98.65	105.00	111.35
18	inch	0.049	0.152	0.277	0.402	0.527	0.652	0.777	0.902	1.152	1.402	1.652	1.902	2.152	2.402	2.652	2.902	3.152	3.402	3.652	3.902	4.152	4.402
	mm	1.24	3.86	7.04	10.21	13.39	16.56	19.74	22.91	29.26	35.61	41.96	48.31	54.66	61.01	67.36	73.71	80.06	86.41	92.76	99.11	105.46	111.81
19	inch	0.042	0.166	0.291	0.416	0.541	0.666	0.791	0.916	1.166	1.416	1.666	1.916										
	mm	1.07	4.22	7.39	10.57	13.74	16.92	20.09	23.27	29.62	35.97	42.32	48.67										
20	inch	0.035	0.180	0.305	0.430	0.555	0.680	0.805	0.930	1.180	1.430	1.680	1.930										
	mm	0.89	4.57	7.75	10.92	14.10	17.27	20.45	23.62	29.97	36.32	42.67	49.02										
21	inch	0.032	0.186	0.311	0.436	0.561	0.686	0.811	0.936	1.186	1.436	1.686	1.936										
	mm	0.81	4.72	7.90	11.07	14.25	17.42	20.60	23.77	30.12	36.47	42.82	49.15										
22	inch	0.028	0.194	0.319	0.444	0.569	0.694	0.819	0.944	1.194	1.444	1.694	1.944										
	mm	0.71	4.93	8.10	11.28	14.45	17.63	20.80	23.98	30.33	36.68	43.03	49.38										
23	inch	0.025	0.200	0.325	0.450	0.575	0.700	0.825	0.950	1.200	1.450	1.700	1.950										
	mm	0.64	5.08	8.26	11.43	14.61	17.78	20.96	24.13	30.48	36.83	43.18	49.53										
24	inch	0.022	0.206	0.331	0.456	0.581	0.706	0.831	0.956	1.206	1.456	1.706	1.956										
	mm	0.56	5.23	8.41	11.58	14.76	17.93	21.11	24.28	30													

*Above table does not allow for tube mill tolerance.

Table to Determine Pipe Size and Schedule Number

Nominal Pipe Size (in.)	O.D. (in.)	Schedule Number for Pipe Sizes Wall Thickness / Inside Diameter (Inches)	
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Contact Us

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