



FOR TUBES INTERNAL DIAMETER
From 0.584" (14.8 mm) to 1.430 (36.3 mm)

FEATURES OF "8012" SERIES TUBE EXPANDERS :

- Use: To Expand Tubes in Air Heaters, Boiler and Refinery Tubes Can and also be used to expand thick Tube Sheet (upto 8").
- Large Size 8012 Series Expanders are available on Request.

Tube Expander Fitted With Roller Length		Minimum A	Maximum B
2.1/4" (57.1mm)	STANDARD REACH	1/2" (12.7mm)	4" (101.4 mm)
	"6" REACH	1/2" (12.7mm)	6" (152.4 mm)
	"8" REACH	1/2" (12.7mm)	8" (203.4 mm)

TUBE EXPANDERS SPECIFICATION

TUBE OD (mm)	Tube Thickness			Tube I.D.		Tube I.D. Tool Enters		Maximum Expansion of Tool		EXPANDER with(57.15 mm) 2.1/4" Long Rollers		
	BWG	mm	inch	mm	inch	mm	Inch	mm	inch	Tool No	Mandrel	Roller
44.45 1.3/4 "	8	4.19	0.165	36.1	1.421	34.7	1.366	39.3	1.547	8012 - 1.3/4 - 8 G	M- 90	R- 33A
	10	3.40	0.134	37.6	1.480	36.0	1.417	40.8	1.606	8012 - 1.3/4 - 10 G	M- 90	R- 37A
	11	3.04	0.120	38.3	1.508	36.9	1.453	41.5	1.634	8012 - 1.3/4 - 11 G	M- 90	R- 42
	12	2.76	0.109	38.9	1.531	37.6	1.480	42.0	1.654	8012 - 1.3/4 - 12 G	M- 90	R- 44
	13	2.41	0.095	39.6	1.559	38.3	1.508	42.7	1.681	8012 - 1.3/4 - 13 G	M- 90	R- 46
	14	2.10	0.083	40.2	1.583	38.9	1.531	43.4	1.709	8012 - 1.3/4 - 14 G	M- 90	R- 48
50.80 2 "	8	4.19	0.165	42.4	1.669	40.5	1.594	45.6	1.795	8012 - 2- 8 G	M- 91	R- 48
	10	3.40	0.134	43.9	1.728	41.6	1.638	47.1	1.854	8012 - 2- 10 G	M- 91	R- 50
	11	3.04	0.120	44.7	1.760	42.4	1.669	47.8	1.882	8012 - 2- 11 G	M- 91	R- 52
	12	2.76	0.109	45.2	1.780	43.2	1.701	48.4	1.906	8012 - 2- 12 G	M- 91	R- 54
	13	2.41	0.095	45.9	1.807	43.9	1.728	49.6	1.953	8012 - 2- 13/18 G	M- 91	R- 56
	14	2.10	0.083	46.5	1.831	43.9	1.728	49.6	1.953	8012 - 2- 13/18 G	M- 91	R- 56
	15	1.83	0.072	47.1	1.854	43.9	1.728	49.6	1.953	8012 - 2- 13/18 G	M- 91	R- 56
	16	1.65	0.065	47.4	1.866	43.9	1.728	49.6	1.953	8012 - 2- 13/18 G	M- 91	R- 56
	17	1.47	0.058	47.9	1.886	43.9	1.728	49.6	1.953	8012 - 2- 13/18 G	M- 91	R- 56
57.15 2.1/4 "	18	1.24	0.049	48.3	1.902	43.9	1.728	49.6	1.953	8012 - 2- 13/18 G	M- 91	R- 56
	10	3.40	0.134	50.3	1.980	48.0	1.890	53.5	2.106	8012 - 2.1/4 - 10 G	M- 92	R- 56
	11	3.04	0.120	51.0	2.008	48.7	1.917	54.2	2.134	8012 - 2.1/4 - 11 G	M- 92	R- 58
	12	2.76	0.109	51.6	2.031	49.6	1.953	54.7	2.154	8012 - 2.1/4 - 12 G	M- 92	R- 60
	13	2.41	0.095	52.3	2.059	50.3	1.980	55.4	2.181	8012 - 2.1/4 - 13/16 G	M- 92	R- 62
	14	2.10	0.083	52.9	2.083	50.3	1.980	55.4	2.181	8012 - 2.1/4 - 13/16 G	M- 92	R- 62
	15	1.83	0.072	53.4	2.102	50.3	1.980	55.4	2.181	8012 - 2.1/4 - 13/16 G	M- 92	R- 62
	16	1.65	0.065	53.8	2.118	50.3	1.980	55.4	2.181	8012 - 2.1/4 - 13/16 G	M- 92	R- 62
	17	1.47	0.058	54.3	2.138	50.3	1.980	55.4	2.181	8012 - 2.1/4 - 13/16 G	M- 92	R- 62
63.50 2.1/2 "	18	1.24	0.049	54.3	2.138	50.3	1.980	55.4	2.181	8012 - 2.1/2 - 10/12 G	M- 93	R- 64
	10	3.40	0.134	56.6	2.228	54.3	2.138	61.1	2.406	8012 - 2.1/2 - 10/12 G	M- 93	R- 64
	11	3.04	0.120	57.4	2.260	54.3	2.138	61.1	2.406	8012 - 2.1/2 - 10/12 G	M- 93	R- 64
	12	2.76	0.109	57.9	2.280	54.3	2.138	61.1	2.406	8012 - 2.1/2 - 10/12 G	M- 93	R- 64
	13	2.41	0.095	58.6	2.307	56.6	2.228	62.2	2.449	8012 - 2.1/2 - 13/18 G	M- 94	R- 64
	14	2.10	0.083	59.2	2.331	56.6	2.228	62.2	2.449	8012 - 2.1/2 - 13/18 G	M- 94	R- 64
	15	1.83	0.072	59.8	2.354	56.6	2.228	62.2	2.449	8012 - 2.1/2 - 13/18 G	M- 94	R- 64
	16	1.65	0.065	60.1	2.366	56.6	2.228	62.2	2.449	8012 - 2.1/2 - 13/18 G	M- 94	R- 64
	17	1.47	0.058	60.6	2.386	56.6	2.228	62.2	2.449	8012 - 2.1/2 - 13/18 G	M- 94	R- 64
	18	1.24	0.049	61.0	2.402	56.6	2.228	62.2	2.449	8012 - 2.1/2 - 13/18 G	M- 94	R- 64

TUBE EXPANDER 8012 SERIES

8012 SERIES

TUBE OD (mm) Inch	Tube Thickness			Tube I.D.		Tube I.D. Tool Enters		Maximum Expansion of Tool		EXPANDER with(57.15 mm) 2.1/4" Long Rollers		
	BWG	mm	inch	mm	inch	mm	inch	mm	inch	Tool No	Mandrel	Roller
69.85 2.3/4"	10	3.40	0.134	63.0	2.480	60.7	2.390	68.6	2.701	8012 - 2.3/4 - 10/16 G	M- 96	R- 66
	11	3.04	0.120	63.7	2.508	60.7	2.390	68.6	2.701	8012 - 2.3/4 - 10/16 G	M- 96	R- 66
	12	2.76	0.109	64.3	2.531	60.7	2.390	68.6	2.701	8012 - 2.3/4 - 10/16 G	M- 96	R- 66
	13	2.41	0.095	65.0	2.559	60.7	2.390	68.6	2.701	8012 - 2.3/4 - 10/16 G	M- 96	R- 66
	14	2.10	0.083	65.6	2.583	60.7	2.390	68.6	2.701	8012 - 2.3/4 - 10/16 G	M- 96	R- 66
	15	1.83	0.072	66.1	2.602	60.7	2.390	68.6	2.701	8012 - 2.3/4 - 10/16 G	M- 96	R- 66
76.20 3"	16	1.65	0.065	66.5	2.618	60.7	2.390	68.6	2.701	8012 - 2.3/4 - 10/16 G	M- 96	R- 66
	8	4.19	0.165	67.8	2.669	65.0	2.559	71.8	2.827	8012 - 3 - 8/9 G	M- 97	R- 67
	9	3.87	0.148	68.6	2.701	65.0	2.559	71.8	2.827	8012 - 3 - 8/9 G	M- 97	R- 67
	10	3.40	0.134	69.3	2.728	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	11	3.04	0.120	70.1	2.760	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	12	2.76	0.109	70.6	2.780	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	13	2.41	0.095	71.3	2.807	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	14	2.10	0.083	71.9	2.831	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	15	1.83	0.072	72.5	2.854	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	16	1.65	0.065	72.8	2.866	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
88.90 3.1/2"	17	1.47	0.058	73.3	2.886	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	18	1.24	0.049	73.7	2.902	67.0	2.638	74.9	2.949	8012 - 3 - 10/18 G	M- 96	R- 67
	13	2.41	0.095	84.1	3.311	81.0	3.189	88.0	3.465	8012 - 3.1/2 - 10/18 G	M- 99	R- 70
	14	2.10	0.083	84.7	3.335	81.0	3.189	88.0	3.465	8012 - 3.1/2 - 10/18 G	M- 99	R- 70
	15	1.83	0.072	85.2	3.354	81.0	3.189	88.0	3.465	8012 - 3.1/2 - 10/18 G	M- 99	R- 70
	16	1.65	0.065	85.6	3.370	81.0	3.189	88.0	3.465	8012 - 3.1/2 - 10/18 G	M- 99	R- 70
101.60 4"	17	1.47	0.058	86.0	3.386	81.0	3.189	88.0	3.465	8012 - 3.1/2 - 10/18 G	M- 99	R- 70
	18	1.24	0.049	86.4	3.402	81.0	3.189	88.0	3.465	8012 - 3.1/2 - 10/18 G	M- 99	R- 70
	3	6.60	0.260	88.4	3.480	87.0	3.425	96.0	3.780	8012 - 4 - 3/4 G	M- 100	R- 71
	4	6.00	0.236	89.6	3.528	87.0	3.425	96.0	3.780	8012 - 4 - 3/4 G	M- 100	R- 71
	8	4.19	0.165	93.2	3.669	91.0	3.583	100.0	3.937	8012 - 4 - 8/9 G	M- 101	R- 71
	9	3.87	0.148	94.1	3.705	91.0	3.583	100.0	3.937	8012 - 4 - 8/9 G	M- 101	R- 71
	10	3.40	0.134	94.8	3.732	93.0	3.661	106.0	4.173	8012 - 4 - 10/18 G	M- 101	R- 72
	11	3.04	0.120	95.5	3.760	93.0	3.661	106.0	4.173	8012 - 4 - 10/18 G	M- 101	R- 72
	12	2.76	0.109	96.1	3.783	93.0	3.661	106.0	4.173	8012 - 4 - 10/18 G	M- 101	R- 72
	13	2.41	0.095	96.8	3.811	93.0	3.661	106.0	4.173	8012 - 4 - 10/18 G	M- 101	R- 72
114.30 4.1/2"	14	2.10	0.083	97.4	3.835	93.0	3.661	106.0	4.173	8012 - 4 - 10/18 G	M- 101	R- 72
	16	1.65	0.065	98.3	3.870	93.0	3.661	106.0	4.173	8012 - 4 - 10/18 G	M- 101	R- 72
	3	6.60	0.260	101.1	3.980	100.0	3.937	109.0	4.291	8012 - 4.1/2 - 3/4 G	M- 102	R- 73
	4	6.00	0.236	102.3	4.028	100.0	3.937	109.0	4.291	8012 - 4.1/2 - 3/4 G	M- 102	R- 73
	8	4.19	0.165	105.9	4.169	102.0	4.016	111.0	4.370	8012 - 4.1/2 - 8/9 G	M- 102	R- 74
	9	3.87	0.148	106.8	4.205	102.0	4.016	111.0	4.370	8012 - 4.1/2 - 8/9 G	M- 102	R- 74
127.00 5"	10	3.40	0.134	107.5	4.232	104.0	4.094	113.0	4.449	8012 - 4.1/2 - 10/18 G	M- 103	R- 74
	12	2.76	0.109	108.8	4.283	104.0	4.094	113.0	4.449	8012 - 4.1/2 - 10/18 G	M- 103	R- 74
	16	1.65	0.065	111.0	4.370	104.0	4.094	113.0	4.449	8012 - 4.1/2 - 10/18 G	M- 103	R- 74
	3	6.60	0.260	113.8	4.480	112.0	4.409	121.0	4.764	8012 - 5 - 3/4 G	M- 105	R- 76
	4	6.00	0.236	115.0	4.528	112.0	4.409	121.0	4.764	8012 - 5 - 3/4 G	M- 105	R- 76
	8	4.19	0.165	118.6	4.669	116.0	4.567	125.0	4.921	8012 - 5 - 8/9 G	M- 105	R- 77
	9	3.87	0.148	119.5	4.705	116.0	4.567	125.0	4.921	8012 - 5 - 8/9 G	M- 105	R- 77
	10	3.40	0.134	120.2	4.732	117.0	4.606	126.0	4.961	8012 - 5 - 10/18 G	M- 105	R- 78
	11	3.04	0.120	121.0	4.764	117.0	4.606	126.0	4.961	8012 - 5 - 10/18 G	M- 105	R- 78
	12	2.76	0.109	121.5	4.783	117.0	4.606	126.0	4.961	8012 - 5 - 10/18 G	M- 105	R- 78
	14	2.14	0.084	122.8	4.835	117.0	4.606	126.0	4.961	8012 - 5 - 10/18 G	M- 105	R- 78
	16	1.65	0.065	123.7	4.870	117.0	4.606	126.0	4.961	8012 - 5 - 10/18 G	M- 105	R- 78

Model 8012-1.3/4"-8G To 8012-2.1/2"-13/18G Expanders come with 3/4" Square Mandrel Drive and
Model 8012-2.3/4"-10/16G to 8012-5"-10/16G Expanders come with 1" Square Mandrel Drive.