

Boiler Tube Expanders AF3 / AF1 Series

We are offering **Boiler Tube Expanders AF3 / AF1 Series 7/8"- 4 1/2" O.D.**



Tube O.D.	Tube Thickness		Tube O.D.	Tube Thickness		Minimum I.D. Tool Enters		Maximum Expansion of Tool		Tube Expander Model Number Tube Sheet Thickness Range					Spare Mandrel & Roller Model No.		
	inch	bwg		inch	bwg	mm	inch	mm	inch	1/2" To 7/8"	3/4" To 1.1/8"	1.1/8" To 1.5/8"	1.5/8" To 2.1/8"	2.1/8" To 2.5/8"	Roller Model No.	Mandrel Model No.	Mandrel Sq Inch
7/8	15	.072	1	10	.134	18.1	.712	20.4	.803	AF3-31/2	AF3-31/3	-	-	-	15-F1S	DM-11	3/8
7/8	16	.065	-	-	-	18.4	.724	20.7	.814	AF3-32/2	AF3-32/3	-	-	-	15-F1S	DM-12	3/8
7/8	17	.058	1	11	.120	18.8	.740	21.1	.830	AF3-33/2	AF3-33/3	-	-	-	16-F1S	DM-12	3/8
7/8	18	.049	1	12	.109	19.4	.763	21.6	.850	AF3-34/2	AF3-34/3	-	-	-	20-F1S	DM-12	3/8
7/8	19 & 20	.042 & .035	1.1/8	8	.165	19.7	.775	22.3	.877	AF3-35/2	AF3-35/3	-	-	-	17-F1S	DM-13	3/8
1	13	.095	-	-	-	20.1	.791	22.4	.881	AF3-36/2	AF3-36/3	-	-	-	18-F1S	DM-12	3/8
1	14	.083	1.1/8	9	.148	20.6	.811	23.1	.909	AF3-37/2	AF3-37/3	AF3-37/4	-	-	18-F1S	DM-13	3/8
1	15 & 16	.072 & .065	1.1/8	10	.134	21.3	.838	23.8	.937	AF3-38/2	AF3-38/3	AF3-38/4	-	-	19-F1S	DM-13	3/8
1	17 & 18	.058 & .048	1.1/8	11	.120	22.0	.866	24.5	.964	AF3-39/2	AF3-39/3	AF3-39/4	-	-	21-F1S	DM-13	3/8
1	19 & 20	.042 & .035	1.1/8	12	.109	22.4	.881	25.0	.984	AF3-40/2	AF3-40/3	AF3-40/4	-	-	21-F1S	DM-14	3/8
1.1/4	8	.165	1.1/8	13	.095	23.3	.917	25.9	1.019	AF3-41/2	AF3-41/3	AF3-41/4	-	-	22-F1S	DM-14	3/8
1.1/4	9	.148	1.1/8	14	.083	23.8	.937	26.5	1.043	AF3-42/2	AF3-42/3	AF3-42/4	-	-	23-F1S	DM-15	1/2
1.1/4	10	.134	1.1/8	15 & 16	.072 & .065	24.4	.960	27.2	1.070	AF3-43/2	AF3-43/3	AF3-43/4	-	-	24-F1S	DM-15	1/2
1.1/4	11	.120	-	-	-	25.2	.992	28.0	1.102	AF3-44/2	AF3-44/3	AF3-44/4	-	-	26-F1S	DM-16	1/2
1.1/4	12	.109	-	-	-	25.7	1.011	28.5	1.122	AF3-45/2	AF3-45/3	AF3-45/4	-	-	27-F1S	DM-16	1/2
1.1/4	13	.095	1.3/8	8	.165	26.1	1.027	28.8	1.133	AF3-46/2	AF3-46/3	AF3-46/4	-	-	31-F1S	DM-16	1/2
1.1/4	14	.083	-	-	-	26.4	1.039	29.2	1.149	AF3-47/2	AF3-47/3	AF3-47/4	-	-	28-F1S	DM-17	1/2
1.1/4	15	.072	1.3/8	9	.148	26.9	1.059	29.7	1.169	AF3-48/2	AF3-48/3	AF3-48/4	-	-	29-F1S	DM-17	1/2
1.1/4	16	.065	1.3/8	10	.134	27.6	1.086	30.4	1.196	AF3-49/2	AF3-49/3	AF3-49/4	AF3-49/5	AF3-49/6	30-F1S	DM-17	1/2
1.1/2	7	.180	1.3/8	11	.120	28.3	1.114	31.2	1.228	AF3-50/2	AF3-50/3	AF3-50/4	AF3-50/5	AF3-50/6	30-F1S	DM-18	1/2
1.1/2	8	.165	1.3/8	12	.109	28.8	1.133	31.7	1.248	AF3-51/2	AF3-51/3	AF3-51/4	AF3-51/5	AF3-51/6	32-F1S	DM-18	1/2
1.1/2	9	.148	1.3/8	13 & 14	.095 & .083	29.5	1.161	33.4	1.314	AF3-52/2	AF3-52/3	AF3-52/4	AF3-52/5	AF3-52/6	28-F1S	DM-20	1/2
1.1/2	10	.134	1.3/8	15 & 16	.072 & .065	30.0	1.181	34.1	1.342	AF3-53/2	AF3-53/3	AF3-53/4	AF3-53/5	AF3-53/6	29-F1S	DM-20	1/2
1.1/2	11 & 12	.120 & .109	-	-	-	30.6	1.204	34.8	1.370	AF3-54/2	AF3-54/3	AF3-54/4	AF3-54/5	AF3-54/6	30-F1S	DM-20	1/2
1.1/2	13	.095	1.3/4	5	.220	31.4	1.236	35.6	1.401	AF3-55/2	AF3-55/3	AF3-55/4	AF3-55/5	AF3-55/6	33-F1S	DM-20	1/2
1.1/2	14 & 15	.083 & .072	1.3/4	6	.203	32.6	1.283	36.8	1.448	AF3-56/2	AF3-56/3	AF3-56/4	AF3-56/5	AF3-56/6	34-F1S	DM-21	1/2
-	-	-	1.3/4	7	.180	33.4	1.314	38.1	1.500	AF3-57/2	AF3-57/3	AF3-57/4	AF3-57/5	AF3-57/6	36-F1S	DM-21	1/2
-	-	-	1.3/4	8	.165	34.2	1.346	38.7	1.523	AF3-58/2	AF3-58/3	AF3-58/4	AF3-58/5	AF3-58/6	37-F1S	DM-21	1/2
2	3	.259	1.3/4	9 & 10	.148 & .134	35.0	1.377	40.6	1.598	AF3-59/2	AF3-59/3	AF3-59/4	AF3-59/5	AF3-59/6	33-F1S	DM-22	3/4
2	4	.238	1.3/4	11 & 12	.120 & .109	36.6	1.440	42.2	1.661	AF3-60/2	AF3-60/3	AF3-60/4	AF3-60/5	AF3-60/6	37-F1S	DM-22	3/4
2	5 & 6	.200 & .203	1.3/4	13 & 14	.095 & .083	38.2	1.503	43.8	1.712	AF3-61/2	AF3-61/3	AF3-61/4	AF3-61/5	AF3-61/6	38-F1S	DM-22	3/4
2	7 & 8	.180 & .165	1.3/4	15 & 16	.072 & .065	39.8	1.566	45.4	1.787	AF3-62/2	AF3-62/3	AF3-62/4	AF3-62/5	AF3-62/6	39-F1S	DM-22	3/4
2	9 & 10	.148 & .134	2.1/4	3	.259	41.4	1.629	47.0	1.850	AF3-63/2	AF3-63/3	AF3-63/4	AF3-63/5	AF3-63/6	40-F1S	DM-22	3/4
2	11 - 13	.120 - .095	2.1/4	4	.238	42.9	1.688	49.5	1.948	AF3-64/2	AF3-64/3	AF3-64/4	AF3-64/5	AF3-64/6	40-F1S	DM-23	3/4
2	14 - 16	.083 - .065	2.1/4	6 & 7	.203 & .180	44.5	1.751	51.1	2.011	AF3-65/2	AF3-65/3	AF3-65/4	AF3-65/5	AF3-65/6	41-F1S	DM-23	3/4
2	17 & 18	.085 & .049	2.1/4	8 & 9	.165 & .148	46.1	1.814	52.7	2.074	AF3-66/2	AF3-66/3	AF3-66/4	AF3-66/5	AF3-66/6	41-F1S	DM-23	3/4
2.1/2	3	.259	2.1/4	10 & 11	.134 & .120	47.7	1.877	54.3	2.137	AF3-67/2	AF3-67/3	AF3-67/4	AF3-67/5	AF3-67/6	43-F1S	DM-23	3/4
2.1/2	4 & 5	.238 & .220	2.1/4	12 & 13	.109 & .095	49.3	1.940	55.9	2.200	AF3-68/2	AF3-68/3	AF3-68/3	AF3-68/5	AF3-68/6	44-F1S	DM-23	3/4
2.1/2	6 & 7	.203 & .180	2.1/4	14 - 16	.083 - .065	50.8	2.000	57.8	2.275	AF3-69/2	AF3-69/3	AF3-69/3	AF3-69/5	AF3-69/6	43-F1S	DM-24	3/4
2.1/2	8 & 9	.165 & .148	2.3/4	3	.259	52.4	2.062	59.4	2.338	AF3-70/2	AF3-70/3	AF3-70/3	AF3-70/5	AF3-70/6	44-F1S	DM-24	3/4
2.1/2	10 & 11	.134 & .120	2.3/4	4	.238	54.0	2.125	61.0	2.401	AF3-71/2	AF3-71/3	AF3-71/3	AF3-71/5	AF3-71/6	45-F1S	DM-24	3/4
2.1/2	12 - 14	.109 - .083	2.3/4	5 & 6	.220 & .203	55.6	2.188	64.0	2.519	AF3-72/2	AF3-72/3	AF3-72/3	AF3-72/5	AF3-72/6	47-F1S	DM-24	3/4
2.1/2	15 & 16	.072 & .065	2.3/4	7 & 8	.180 & .165	57.2	2.251	65.6	2.582	AF3-73/2	AF3-73/3	AF3-73/3	AF3-73/5	AF3-73/6	46-F1S	DM-25	1
3	3	.259	2.3/4	9 & 10	.148 & .134	58.6	2.307	67.0	2.637	AF3-74/2	AF3-74/3	AF3-74/3	AF3-74/5	AF3-74/6	47-F1S	DM-25	1
3	4	.238	2.3/4	11 - 13	.120 - .095	60.4	2.377	68.8	2.708	AF3-75/2	AF3-75/3	AF3-75/3	AF3-75/5	AF3-75/6	48-F1S	DM-25	1
3	5 & 6	.220 & .203	2.3/4	14 - 16	.083 - .065	62.2	2.448	70.4	2.771	AF3-76/2	AF3-76/3	AF3-76/3	AF3-76/5	AF3-76/6	49-F1S	DM-25	1
3	7 & 8	.180 & .165	-	-	-	63.6	2.503	72.0	2.834	AF3-77/2	AF3-77/3	AF3-77/3	AF3-77/5	AF3-77/6	50-F1S	DM-25	1
3	9 & 10	.148 & .134	3.1/4	3	.259	65.0	2.559	73.4	2.889	AF3-78/2	AF3-78/3	AF3-78/3	AF3-78/5	AF3-78/6	51-F1S	DM-25	1
3	11 - 13	.120 - .095	3.1/4	4	.238	66.6	2.622	75.0	2.952	AF3-79/2	AF3-79/3	AF3-79/3	AF3-79/5	AF3-79/6	52-F1S	DM-25	1
3	14 - 16	.083 - .065	3.1/4	5 & 6	.220 & .203	68.3	2.688	76.9	3.027	AF3-80/2	AF3-80/3	AF3-80/3	AF3-80/5	AF3-80/6	51-F1S	DM-25	1
3.1/2	2	.284	3.1/4	7 & 8	.180 & .165	69.9	2.751	78.5	3.090	AF3-81/2	AF3-81/3	AF3-81/3	AF3-81/5	AF3-81/6	52-F1S	DM-26	1
3.1/2	3	.259	3.1/4	9 & 10	.148 & .134	71.5	2.814	80.1	3.153	AF3-82/2	AF3-82/3	AF3-82/3	AF3-82/5	AF3-82/6	53-F1S	DM-25	1
3.1/2	5 & 6	.220 & .203	3.1/4	14 - 16	.083 - .065	74.6	2.937	84.2	3.314	AF3-84/2	AF3-84/3	AF3-84/3	AF3-84/5	AF3-84/6	54-F1S	DM-27	1
3.1/2	7 & 8	.180 & .165	3.3/4	2	.284	76.2	3.000	85.5	3.366	AF3-85/2	AF3-85/3	AF3-85/3	AF3-85/5	AF3-85/6	55-F1S	DM-27	1
3.1/2	9 - 11	.148 - .120	3.3/4	3	.259	77.8	3.062	87.4	3.440	AF3-86/2	AF3-86/3	AF3-86/3	AF3-86/5	AF3-86/6	56-F1S	DM-27	1
3.1/2	12 - 16	.109 - .065	3.3/4	4	.238	79.4	3.125	89.0	3.503	AF3-87/2	AF3-87/3	AF3-87/3	AF3-87/5	AF3-87/6	57-F1S	DM-27	1
-	-	-	3.3/4	5 & 6	.220 & .203	81.0	3.188	90.6	3.566	AF3-88/2	AF3-88/3	AF3-88/3	AF3-88/5	AF3-88/6	58-F1S	DM-27	1
4	2	.284	3.3/4	7 & 8	.180 & .165	82.6	3.251	92.2	3.629	AF3-89/2	AF3-89/3	AF3-89/3	AF3-89/5	AF3-89/6	59-F1S	DM-27	1
4	3	.259	3.3/4	9 & 10	.148 & .134	84.2	3.314	93.8	3.692	AF3-90/2	AF3-90/3	AF3-90/3	AF3-90/5	AF3-90/6	60-F1S	DM-27	1
4	4	.238	3.3/4	11 - 13	.120 - .095	85.8	3.377	96.2	3.787	AF3-91/2	AF3-91/3	AF3-91/3	AF3-91/5	AF3-91/6	59-F1S	DM-28	1
4	5 & 6	.220 & .203	3.3/4	14 - 16	.083 - .065	87.4	3.440	97.8	3.850	AF3-92/2	AF3-92/3	AF3-92/3	AF3-92/5	AF3-92/6	60-F1S	DM-28	1
4	7 & 8	.180 & .165	4.1/4	2	.284	89.0	3.503	99.4	3.913	AF3-93/2	AF3-93/3	AF3-93/3	AF3-93/5	AF3-93/6	61-F1S	DM-28	1
4	9 - 11	.148 - .120	4.1/4	3	.259	90.4	3.559	100.8	3.968	AF3-94/2	AF3-94/3	AF3-94/3	AF3-94/5	AF3-94/6	62-F1S	DM-28	1
4	12 - 16	.109 - .065	4.1/4	4	.238	92.0	3.622	102.4	4.031	AF3-95/2	AF3-95/3	AF3-95/3	AF3-95/5	AF3-95/6	63-F1S	DM-28	1
-	-	-	4.1/4	5 & 6	.220 & .203	93.4	3.677	103.8	4.086	AF3-96/2	AF3-96/3	AF3-96/3	AF3-96/5	AF3-96/6	62-F1S	DM-29	1
4.1/2	2	.284	4.1/4	7 & 8	.180 & .165	95.0	3.740	105.4	4.149	AF3-97/2	AF						