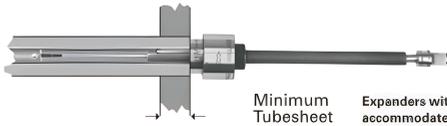


Model CH 800

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Tube size I.D 335" - 1 457 " (8.5 - 37.0 mm)



Minimum Tubesheet

Expanders with 1 1/2" (38.1mm) long rolls will accommodate tube sheet thickness as follows:

STANDARD REACH....	3/4" to 5 7/8"	(19.05 mm to 149.22 mm)
"B" REACH....	3/4" to 10"	(19.05 mm to 254.00 mm)
"C" REACH....	3/4" to 12"	(19.05 mm to 304.80 mm)



Maximum Tubesheet

Expanders with 2 1/4" (57.1mm) long rolls will accommodate tube sheet thickness as follows:

STANDARD REACH....	1 1/2" to 6 1/2"	(38.1 mm to 165.10 mm)
"B" REACH....	1 1/2" to 10 3/4"	(38.1 mm to 273.05 mm)
"C" REACH....	1 1/2" to 12 3/4"	(38.1 mm to 323.85 mm)

Longer reaches available upon request in 2 inch (50.8 mm) increments.

TUBE O.D. AND G.A.	MIN. I.D. TUBE TOOL ENTERS		MAX. TOOL EXPANSION		SIZE SQUARE ON MANDREL	EXPANDER WITH 1 1/2" (38.1 mm) ROLLS		EXPANDER WITH 2 1/4" (57.1 mm) ROLLS		MANDREL NO.
	Inch	mm	Inch	mm		EXPANDER NO.	ROLL SET NO.	EXPANDER NO.	ROLL SET NO.	
1/2"-14	.324	8.23	.374	9.50	3/8"	CH-1197	TR-797			MT-1197
1/2"-15	.349	8.86	.398	10.11		CH-1199	TR-1			MT-1199
1/2"-16	.360	9.14	.410	10.41		CH-1201	TR-1			MT-51
1/2"-17	.374	9.50	.424	10.77		CH-1203	TR-2			MT-51
1/2"-18	.392	9.96	.447	11.35		CH-1205	TR-3			MT-52
5/8"-12	.392	9.96	.447	11.35	3/8"	CH-1207	TR-4			MT-53
5/8"-13	.425	10.79	.480	12.19		CH-1209	TR-4	CH-1210	TR-4-A	MT-54
5/8"-14	.449	11.40	.509	12.73		CH-1211	TR-5	CH-1212	TR-5-A	MT-55
5/8"-16	.485	12.32	.550	13.97		CH-1213	TR-6	CH-1214	TR-6-A	MT-55
5/8"-17	.499	12.67	.564	14.32		CH-1215	TR-6	CH-1216	TR-6-A	MT-56
5/8"-18	.517	13.13	.572	14.53	CH-1217	TR-7	CH-1218	TR-7-A	MT-57	
3/4"-10	.471	11.96	.536	13.61	3/8"	CH-1211	TR-5	CH-1212	TR-5-A	MT-55
3/4"-11	.499	12.67	.564	14.32		CH-1215	TR-6	CH-1216	TR-6-A	MT-56
3/4"-12	.522	13.30	.582	15.20		CH-1219-N	TR-7	CH-1220-N	TR-7-A	MT-58
3/4"-13	.550	13.97	.615	15.62		CH-1221	TR-8	CH-1222	TR-8-A	MT-58
3/4"-14	.574	14.58	.639	16.23		CH-1223	TR-9	CH-1224	TR-9-A	MT-58
3/4"-15	.596	15.14	.661	16.79		CH-1225	TR-10	CH-1226	TR-10-A	MT-58
3/4"-16	.605	15.37	.685	17.40		CH-1227	TR-10	CH-1228	TR-10-A	MT-59
3/4"-17	.619	15.72	.699	17.75		CH-1229	TR-11	CH-1230	TR-11-A	MT-59
3/4"-18	.619	15.72	.699	17.75		CH-1229	TR-11	CH-1230	TR-11-A	MT-59

Model CH 800

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TUBE O.D. AND G.A.	MIN. I.D. TUBE TOOL ENTERS		MAX. TOOL EXPANSION		SIZE SQUARE ON MAN- DREL	EXPANDER WITH 1 1/2" (38.1 mm) ROLLS		EXPANDER WITH 2 1/4" (57.1 mm) ROLLS		MANDREL NO.
	Inch	mm	Inch	mm		EXPANDER NO.	ROLL SET NO.	EXPANDER NO.	ROLL SET NO.	
7/8"-10	.596	15.14	.661	16.79	3/8"	CH-825	TR-10	CH-826	TR-10-A	MT-8
7/8"-11	.619	15.72	.699	17.75		CH-829	TR-11	CH-830	TR-11-A	MT-9
7/8"-12	.642	16.31	.722	18.34		CH-831	TR-12	CH-832	TR-12-A	MT-9
7/8"-13	.670	17.02	.750	19.05		CH-833	TR-13	CH-834	TR-13-A	MT-10
7/8"-14	.685	17.40	.774	19.66		CH-835	TR-14	CH-836	TR-14-A	MT-11
7/8"-15	.712	18.08	.801	20.34		CH-837	TR-15	CH-838	TR-15-A	MT-11
7/8"-16	.726	18.44	.815	20.70		CH-839	TR-15	CH-840	TR-15-A	MT-12
7/8"-17	.740	18.80	.829	21.06		CH-843	TR-16	CH-844	TR-16-A	MT-12
7/8"-18	.740	18.80	.829	21.06	CH-843	TR-16	CH-844	TR-16-A	MT-12	
1" - 8	.655	16.64	.735	18.67	3/8"	CH-841	TR-13	CH-842	TR-13-A	MT-9
1" - 9	.685	17.40	.774	19.66		CH-835	TR-14	CH-836	TR-14-A	MT-11
1" - 10	.712	18.08	.801	20.34		CH-837	TR-15	CH-838	TR-15-A	MT-11
1" - 11	.740	18.80	.829	21.06		CH-843	TR-16	CH-844	TR-16-A	MT-12
1" - 12	.763	19.38	.852	21.64		CH-845	TR-17	CH-846	TR-17-A	MT-12
1" - 13	.791	20.09	.880	22.35		CH-847	TR-18	CH-848	TR-18-A	MT-12
1" - 14	.810	20.57	.909	23.09		CH-849	TR-18	CH-850	TR-18-A	MT-13
1" - 15	.837	21.26	.936	23.77		CH-851	TR-19	CH-852	TR-19-A	MT-13
1" - 16	.837	21.26	.936	23.77	CH-851	TR-19	CH-852	TR-19-A	MT-13	
1" - 17	.865	21.97	.964	24.48	CH-855	TR-21	CH-856	TR-21-A	MT-13	
1" - 18-20	.865	21.97	.964	24.48	CH-855	TR-21	CH-856	TR-21-A	MT-13	
1 1/8" - 8	.776	19.71	.875	22.22	3/8"	CH-853	TR-20	CH-854	TR-20-A	MT-13
1 1/8" - 9	.810	20.57	.909	23.09		CH-849	TR-18	CH-850	TR-18-A	MT-13
1 1/8" - 10	.837	21.26	.936	23.77		CH-851	TR-19	CH-852	TR-19-A	MT-13
1 1/8" - 11	.865	21.97	.964	24.48		CH-855	TR-21	CH-856	TR-21-A	MT-13
1 1/8" - 12	.883	22.43	.982	24.94	1/2"	CH-857	TR-21	CH-858	TR-21-A	MT-14
1 1/8" - 13	.916	23.57	1.015	25.78		CH-859	TR-22	CH-860	TR-22-A	MT-14
1 1/8" - 14	.935	23.75	1.044	26.52		CH-861	TR-23	CH-862	TR-23-A	MT-15
1 1/8" - 15	.962	24.43	1.071	27.20		CH-863	TR-24	CH-864	TR-24-A	MT-15
1 1/8" - 16	.962	24.43	1.071	27.20		CH-863	TR-24	CH-864	TR-24-A	MT-15
1 1/8" - 17	.990	25.15	1.099	27.91		CH-867	TR-26	CH-868	TR-26-A	MT-16
1 1/8" - 18	.990	25.15	1.099	27.91		CH-867	TR-26	CH-868	TR-26-A	MT-16
1 1/4" - 8	.901	22.88	1.010	25.60		1/2"	CH-865	TR-25	CH-866	TR-25-A
1 1/4" - 9	.935	23.75	1.044	26.52	CH-861		TR-23	CH-862	TR-23-A	MT-15
1 1/4" - 10	.962	24.43	1.071	27.20	CH-863		TR-24	CH-864	TR-24-A	MT-15
1 1/4" - 11	.990	25.15	1.099	27.91	CH-867		TR-26	CH-868	TR-26-A	MT-16
1 1/4" - 12	1.013	25.73	1.122	28.50	CH-869		TR-27	CH-870	TR-27-A	MT-16
1 1/4" - 13	1.041	26.44	1.150	29.21	CH-871		TR-28	CH-872	TR-28-A	MT-17
1 1/4" - 14	1.060	26.92	1.169	29.69	CH-873		TR-29	CH-874	TR-29-A	MT-17
1 1/4" - 15	1.087	27.61	1.196	30.38	CH-875		TR-30	CH-876	TR-30-A	MT-17
1 1/4" - 16	1.087	27.61	1.196	30.38	CH-875	TR-30	CH-876	TR-30-A	MT-17	
1 3/8" - 8	1.026	26.06	1.135	28.83	1/2"	CH-877	TR-31	CH-878	TR-31-A	MT-17
1 3/8" - 9	1.060	26.92	1.169	29.69		CH-873	TR-29	CH-874	TR-29-A	MT-17
1 3/8" - 10	1.087	27.61	1.196	30.38		CH-875	TR-30	CH-876	TR-30-A	MT-17
1 3/8" - 11	1.115	28.32	1.224	31.09		CH-879	TR-30	CH-880	TR-30-A	MT-18
1 3/8" - 12	1.133	28.78	1.242	31.55		CH-881	TR-32	CH-882	TR-32-A	MT-18
1 3/8" - 13	1.160	29.46	1.275	32.38		CH-883	TR-33	CH-884	TR-33-A	MT-19
1 3/8" - 14	1.179	29.95	1.294	32.87		CH-885	TR-34	CH-886	TR-34-A	MT-20
1 3/8" - 15	1.206	30.63	1.321	33.55		CH-887	TR-35	CH-888	TR-35-A	MT-20
1 3/8" - 16	1.206	30.63	1.321	33.55	CH-887	TR-35	CH-888	TR-35-A	MT-20	
1 1/2" - 8	1.145	29.08	1.260	32.00	1/2"	CH-889	TR-34	CH-890	TR-34-A	MT-19
1 1/2" - 9	1.179	29.95	1.294	32.87		CH-885	TR-34	CH-886	TR-34-A	MT-20
1 1/2" - 10	1.206	30.63	1.321	33.55		CH-887	TR-35	CH-888	TR-35-A	MT-20
1 1/2" - 11	1.235	31.37	1.350	34.29		CH-891	TR-36	CH-892	TR-36-A	MT-20
1 1/2" - 12	1.257	31.93	1.372	34.85		CH-893	TR-37	CH-894	TR-37-A	MT-20
1 1/2" - 13	1.285	32.64	1.400	35.56		CH-895	TR-37	CH-896	TR-37-A	MT-21
1 1/2" - 14	1.285	32.64	1.400	35.56		CH-895	TR-37	CH-896	TR-37-A	MT-21
1 1/2" - 15	1.331	33.81	1.446	36.73		CH-897	TR-38	CH-898	TR-38-A	MT-21
1 1/2" - 16	1.331	33.81	1.446	36.73	CH-897	TR-38	CH-898	TR-38-A	MT-21	
1 3/4" - 8	1.406	35.70	1.531	38.90	1/2"	CH-899	TR-38	CH-899RL	TR-38-A	MT-22