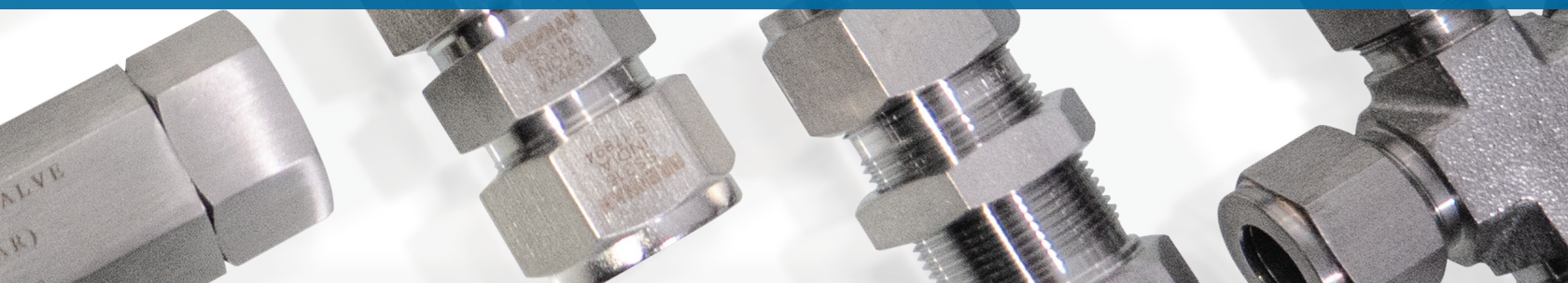




INSTRUMENTATION

INSTRUMENTATION FITTINGS, VALVES & TUBING





INSTRUMENTATION

Brennan's Instrumentation Tube Fittings & Valves provide leak-proof seals in instrumentation, process, pneumatic, hydraulic, gas and other tubing systems. Brennan's Double & Single Ferrule Tube Fittings are easy to install and require no special tools. They are manufactured to be interchangeable and intermixable with Swagelok® and Parker A-LOK® tube fitting brands. Our line of instrumentation valves includes needle valves, ball valves and check valves in stainless steel and brass.

NOTES

Fittings are available in single ferrule and double ferrule design, in both stainless and brass. Part numbers in this catalog represent double ferrule stainless fittings. For other options substitute as follows:

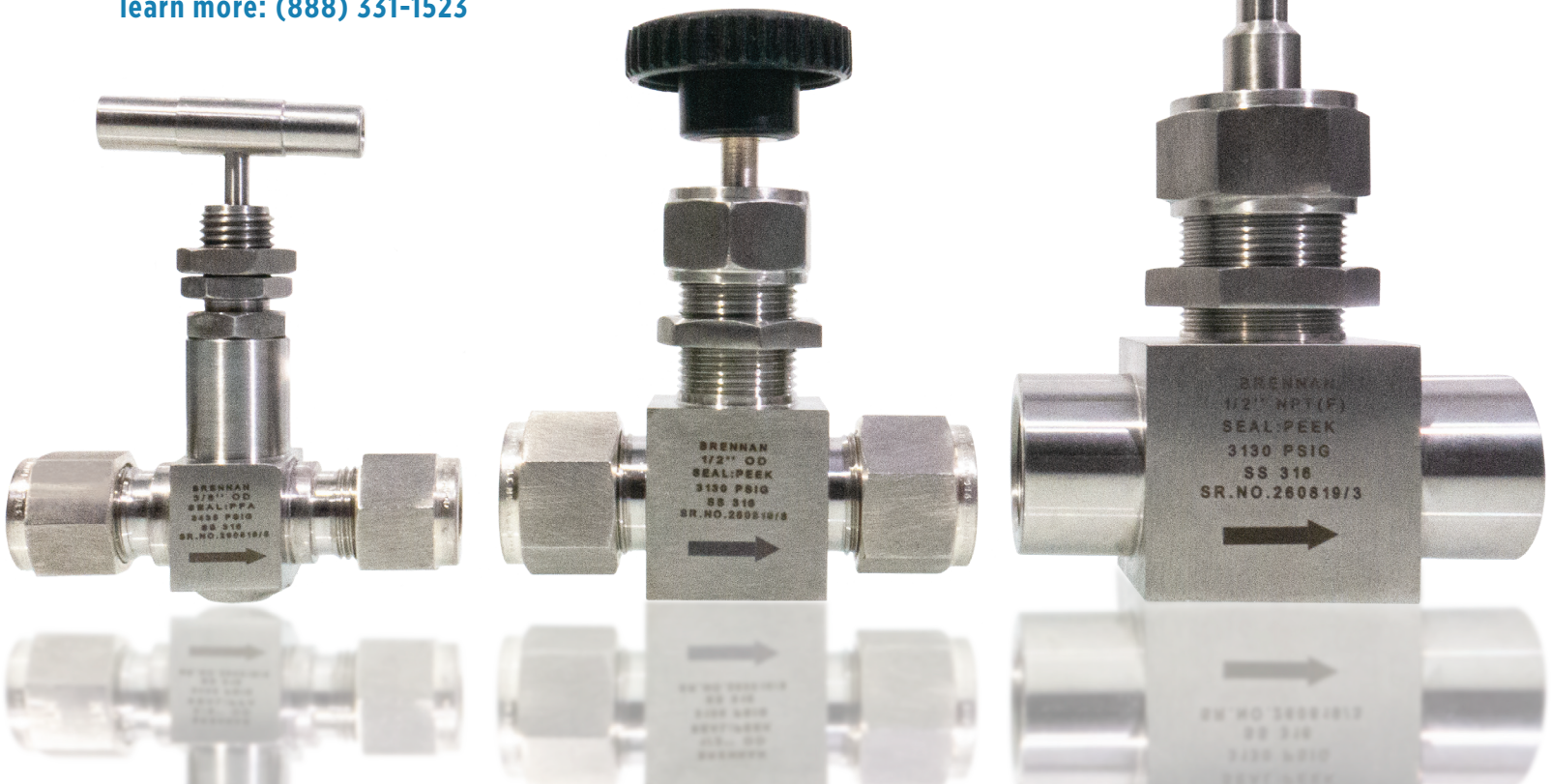
For **single ferrule** change the "N" prefix to "NS"
N2403-08-08-SS becomes **NS**2403-08-08-SS

For **brass**, changes the "SS" suffix to "B"
N2403-08-08-SS becomes N2403-08-08-**B**

Contact a Brennan representative to learn more: (888) 331-1523

TABLE OF CONTENTS

03	STRAIGHTS
16	ELBOWS
21	TEES & CROSSES
25	CAPS, PLUGS, FERRULES
26	VALVES
28	TUBING
30	ASSEMBLY
31	CROSS REFERENCE
35	INDEX

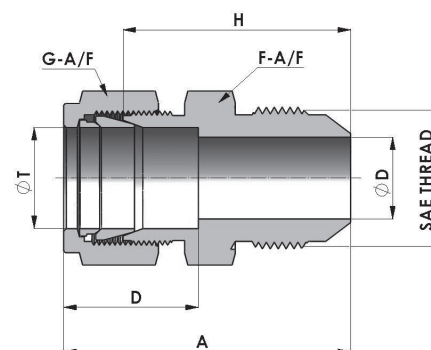


STRAIGHTS



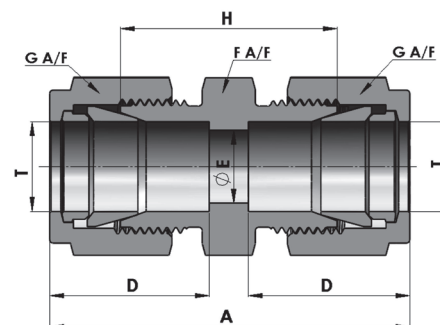
N2402 IN-MJ STRAIGHT

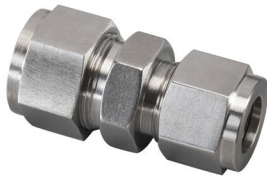
PART NO.	T Tube OD	AN Tube Flare	A mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	S Thread	Material
N2402-02-02-SS	1/8	1/8	32.4	15.6	13.2	1.6	7/16	7/16	25.5	5/16-24	Stainless
N2402-04-04-SS	1/4	1/4	37.6	17.8	15.4	4.4	9/16	9/16	30.2	7/16-20	Stainless
N2402-06-06-SS	3/8	3/8	40.6	20.3	17.8	7.1	5/8	11/16	32.3	9/16-18	Stainless
N2402-08-08-SS	1/2	1/2	45.9	21.8	22.8	9.9	13/16	7/8	35.8	3/4-16	Stainless
N2402-12-12-SS	3/4	3/4	54.5	23	25.6	15.5	1-1/8	1-1/8	43.2	1-1/16-12	Stainless
N2402-16-16-SS	1	1	63.0	28	32.8	21.4	1-3/8	1-1/2	49.3	1-5/16-12	Stainless



N2403 IN-IN STRAIGHT

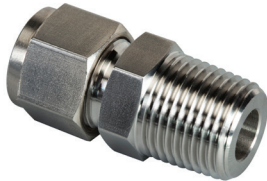
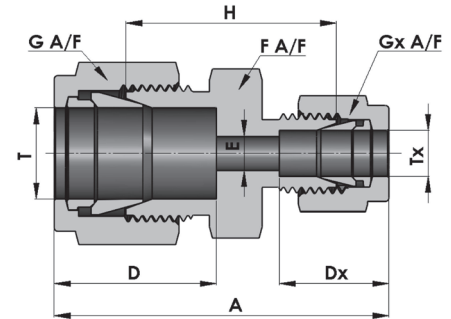
PART NO.	T Tube OD	A mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Material
N2403-01-01-SS	1/16	29.4	13.1	10.7	1.3	8.0	8.0	17.5	Stainless
N2403-02-02-SS	1/8	36.1	15.6	13.2	2.4	11	11	22.4	Stainless
N2403-03-03-SS	3/16	38.1	16.4	14.9	3.0	11.1	12.7	24.2	Stainless
N2403-04-04-SS	1/4	40.9	17.8	15.4	4.8	12.7	14.3	26.2	Stainless
N2403-05-05-SS	5/16	44.1	18.5	16.8	6.3	14.3	16.0	28.2	Stainless
N2403-06-06-SS	3/8	46.7	20.3	17.8	7.1	16.0	17.4	30.2	Stainless
N2403-08-08-SS	1/2	51.1	21.8	22.8	10.4	20.6	22.2	31.0	Stainless
N2403-10-10-SS	5/8	51.8	21.7	24.3	12.7	24	25.4	31.8	Stainless
N2403-12-12-SS	3/4	55.9	23.0	25.6	15.8	27.0	28.5	33.3	Stainless
N2403-14-14-SS	7/8	61.9	25.2	29.3	15.8	30.0	32.0	34.8	Stainless
N2403-16-16-SS	1	67.8	28.0	32.8	22.3	36.0	38.1	40.4	Stainless
N2403-20-20-SS	1-1/4	90.0	39.0	41.8	27.6	46.0	50.0	48.0	Stainless
N2403-24-24-SS	1-1/2	110.1	46.2	51.0	34.0	55.0	57.0	53.6	Stainless
N2403-32-32-SS	2	149.4	62.7	67.6	46.0	70	76	74.7	Stainless





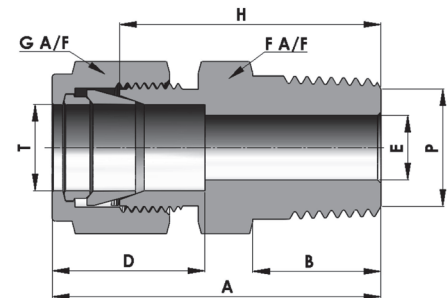
N2403RU IN-IN STRAIGHT

PART NO.	T Tube OD	Tx Tube OD	A mm	C mm	Cx mm	D mm	Dx mm	E min. mm	FA/F mm	GA/F mm	Gx A/F mm	H mm	Material
N2403-04-02-SS	1/4	1/8	38.8	17.8	15.6	15.4	13.2	2.4	12.7	14.3	11	24.6	Stainless
N2403-05-02-SS	5/16	1/8	40.5	18.5	15.6	16.8	13.2	2.4	14.3	16	11	25.7	Stainless
N2403-05-04-SS	5/16	1/4	42.8	18.5	17.8	16.8	15.4	4.8	14.3	16	14.3	27.5	Stainless
N2403-06-02-SS	3/8	1/8	42.0	20.3	15.6	17.8	13.2	2.4	16	17.4	11	26.9	Stainless
N2403-06-04-SS	3/8	1/4	44.1	20.3	17.8	17.8	15.4	4.8	16	17.4	14.3	28.5	Stainless
N2403-08-02-SS	1/2	1/8	45.4	21.8	15.6	22.8	13.2	2.4	20.6	22.2	11	28.5	Stainless
N2403-08-04-SS	1/2	1/4	46.9	21.8	17.8	22.8	15.4	4.8	20.6	22.2	14.3	29.5	Stainless
N2403-08-06-SS	1/2	3/8	49.3	21.8	20.3	22.8	17.8	7.1	20.6	22.2	17.4	31.0	Stainless
N2403-10-06-SS	5/8	3/8	50.1	21.7	20.3	24.3	17.8	7.1	24	25.4	17.4	31.8	Stainless
N2403-10-08-SS	5/8	1/2	51.8	21.7	21.8	24.3	22.8	10.4	24	25.4	22.2	31.8	Stainless
N2403-12-04-SS	3/4	1/4	50.5	23.0	17.8	25.6	15.4	4.8	27	28.5	14.3	31.8	Stainless
N2403-12-06-SS	3/4	3/8	52.9	23.0	20.3	25.6	17.8	7.1	27	28.5	17.4	33.3	Stainless
N2403-12-08-SS	3/4	1/2	54.7	23.0	21.8	25.6	22.8	10.4	27	28.5	22.2	33.3	Stainless
N2403-16-08-SS	1	1/2	61.9	28.0	21.8	32.8	22.8	10.4	35	38	22.2	38.1	Stainless
N2403-16-12-SS	1	3/4	63.1	28.0	23.0	32.8	25.6	15.8	36	38	28.5	38.1	Stainless
N2403-20-16-SS	1-1/4	1	82.7	39.0	28.0	41.8	32.8	22.3	46	50	38	48.0	Stainless
N2403-24-20-SS	1-1/2	1-1/4	102.8	46.2	39.0	51.1	41.8	27.6	55	57	50	53.6	Stainless



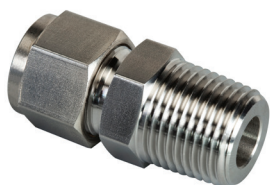
N2404 IN-MNPT STRAIGHT

PART NO.	T Tube OD	P NPT M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Material
N2404-01-01-SS	1/16	1/16	25.9	9.6	13.1	10.7	1.3	8	8	20.0	Stainless
N2404-01-02-SS	1/16	1/8	28.3	9.6	13.1	10.7	1.3	11	8	22.4	Stainless
N2404-02-02-SS	1/8	1/8	30.8	9.6	15.6	13.2	2.4	11	11	23.9	Stainless
N2404-02-04-SS	1/8	1/4	35.9	14.3	15.6	13.2	2.4	14.3	11	29.0	Stainless
N2404-04-02-SS	1/4	1/8	32.8	9.6	17.8	15.4	4.8	12.7	14.3	25.4	Stainless
N2404-04-04-SS	1/4	1/4	37.9	14.3	17.8	15.4	4.8	14.3	14.3	30.5	Stainless
N2404-04-06-SS	1/4	3/8	38.4	14.3	17.8	15.4	4.8	19	14.3	31.0	Stainless
N2404-04-08-SS	1/4	1/2	44.8	19.1	17.8	15.4	4.8	22.2	14.3	37.4	Stainless
N2404-05-04-SS	5/16	1/4	39.2	14.3	18.5	16.8	6.3	14.3	16	31.2	Stainless
N2404-06-02-SS	3/8	1/8	36.2	9.6	20.3	17.8	4.8	16	17.4	27.9	Stainless
N2404-06-04-SS	3/8	1/4	40.8	14.3	20.3	17.8	7.1	16	17.4	32.5	Stainless
N2404-06-06-SS	3/8	3/8	40.8	14.3	20.3	17.8	7.1	19	17.4	32.5	Stainless
N2404-06-08-SS	3/8	1/2	47.2	19.1	20.3	17.8	7.1	22.2	17.4	38.9	Stainless
N2404-08-04-SS	1/2	1/4	43.4	14.3	21.8	22.8	7.1	20.6	22.2	33.3	Stainless
N2404-08-06-SS	1/2	3/8	43.4	14.3	21.8	22.8	9.6	20.6	22.2	33.3	Stainless
N2404-08-08-SS	1/2	1/2	49.0	19.1	21.8	22.8	10.4	22.2	22.2	38.9	Stainless
N2404-08-12-SS	1/2	3/4	50.5	19.1	21.8	22.8	10.4	27	22.2	40.4	Stainless
N2404-08-16-SS	1/2	1	57.1	23.9	21.8	22.8	10.4	36	22.2	47.0	Stainless
N2404-10-06-SS	5/8	3/8	44.0	14.3	21.7	24.3	9.6	24	25.4	34.0	Stainless
N2404-10-08-SS	5/8	1/2	48.9	19.1	21.7	24.3	11.9	24	25.4	38.9	Stainless
N2404-12-08-SS	3/4	1/2	51.7	19.1	23.0	25.6	11.9	27	28.5	40.4	Stainless



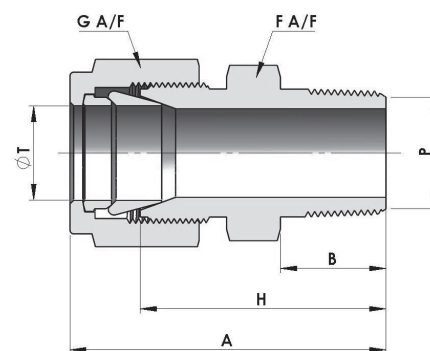
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PART NO.	T Tube OD	P NPT M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Material
N2404-12-12-SS	3/4	3/4	51.7	19.1	23.0	25.6	15.8	27	28.5	40.4	Stainless
N2404-12-16-SS	3/4	1	58.3	23.9	23.0	25.6	15.8	36	28.5	47.0	Stainless
N2404-14-12-SS	7/8	3/4	53.9	19.1	25.2	29.3	15.8	30	32	40.4	Stainless
N2404-16-08-SS	1	1/2	58.9	19.1	28.0	32.8	11.9	36	38	45.2	Stainless
N2404-16-12-SS	1	3/4	58.9	19.1	28.0	32.8	15.8	36	38	45.2	Stainless
N2404-16-16-SS	1	1	63.7	23.9	28.0	32.8	22.3	36	38	50.0	Stainless
N2404-20-16-SS	1-1/4	1	78.9	23.9	39.0	41.8	22.3	46	50	57.9	Stainless
N2404-20-20-SS	1-1/4	1-1/4	78.9	23.9	39.0	41.8	27.6	46	50	57.9	Stainless
N2404-24-24-SS	1-1/2	1-1/2	88.9	26.2	46.2	51.0	34.0	55	57	61.7	Stainless
N2404-32-32-SS	2	2	113.5	26.9	62.7	67.6	46.0	70	76	76.2	Stainless



N2404-BT IN-MNPT STRAIGHT - BORE THROUGH

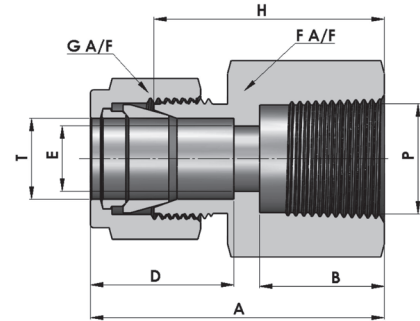
PART NO.	T Tube OD	P NPT M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Material
N2404-01-02-BT-SS	1/16	1/8	1.11	0.38	0.51	0.42	0.05	0.43	0.31	0.88	Stainless
N2404-02-02-BT-SS	1/8	1/8	1.21	0.38	0.61	0.52	0.09	0.43	0.43	0.94	Stainless
N2404-02-04-BT-SS	1/8	1/4	1.41	0.56	0.61	0.52	0.09	0.56	0.43	1.14	Stainless
N2404-03-04-BT-SS	3/16	1/4	1.44	0.56	0.64	0.59	0.12	0.55	0.50	1.17	Stainless
N2404-04-04-BT-SS	1/4	1/4	1.49	0.56	0.70	0.61	0.19	0.56	0.56	1.20	Stainless
N2404-04-06-BT-SS	1/4	3/8	1.51	0.56	0.70	0.61	0.19	0.75	0.56	1.22	Stainless
N2404-04-08-BT-SS	1/4	1/2	1.76	0.75	0.70	0.61	0.19	0.87	0.56	1.47	Stainless
N2404-05-08-BT-SS	5/16	1/2	1.79	0.75	0.72	0.66	0.25	0.87	0.62	1.48	Stainless
N2404-06-06-BT-SS	3/8	3/8	1.61	0.56	0.80	0.70	0.28	0.75	0.68	1.28	Stainless
N2404-06-08-BT-SS	3/8	1/2	1.86	0.75	0.80	0.70	0.28	0.87	0.68	1.53	Stainless
N2404-08-08-BT-SS	1/2	1/2	1.93	0.75	0.86	0.90	0.41	0.87	0.87	1.53	Stainless
N2404-08-12-BT-SS	1/2	3/4	1.99	0.75	0.86	0.90	0.41	1.06	0.87	1.59	Stainless
N2404-10-12-BT-SS	5/8	3/4	1.98	0.75	0.85	0.96	0.47	1.06	1.00	1.59	Stainless
N2404-12-12-BT-SS	3/4	3/4	2.03	0.75	0.90	1.01	0.62	1.06	1.12	1.59	Stainless
N2404-12-16-BT-SS	3/4	1	2.29	0.94	0.90	1.01	0.62	1.42	1.12	1.85	Stainless
N2404-16-16-BT-SS	1	1	2.51	0.94	2.53	1.29	0.88	1.42	1.50	1.97	Stainless





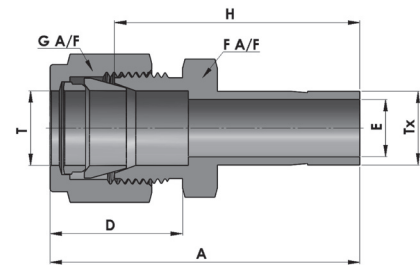
N2405 IN-FNPT STRAIGHT

PART NO.	T Tube OD	P NPT F	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Material
N2405-01-01-SS	1/16	1/16	25.7	9.9	13.1	10.7	1.3	11	8	19.8	Stainless
N2405-01-02-SS	1/16	1/8	26.5	10.4	13.1	10.7	1.3	14.3	8	20.6	Stainless
N2405-02-02-SS	1/8	1/8	29.0	10.4	15.6	13.2	2.4	14.3	11	22.1	Stainless
N2405-02-04-SS	1/8	1/4	33.8	15.0	15.6	13.2	2.4	19	11	26.9	Stainless
N2405-04-02-SS	1/4	1/8	31.3	10.4	17.8	15.4	4.8	14.3	14.3	23.9	Stainless
N2405-04-04-SS	1/4	1/4	35.9	15.0	17.8	15.4	4.8	19	14.3	28.5	Stainless
N2405-04-06-SS	1/4	3/8	37.6	15.0	17.8	15.4	4.8	22.2	14.3	30.2	Stainless
N2405-04-08-SS	1/4	1/2	42.4	19.8	17.8	15.4	4.8	27	14.3	35.0	Stainless
N2405-05-02-SS	5/16	1/8	32.6	10.4	18.5	16.8	6.3	14.3	16	24.6	Stainless
N2405-05-04-SS	5/16	1/4	37.5	15.0	18.5	16.8	6.3	19	16	29.5	Stainless
N2405-06-02-SS	3/8	1/8	33.7	10.4	20.3	17.8	7.1	16	17.4	25.4	Stainless
N2405-06-04-SS	3/8	1/4	38.5	15.0	20.3	17.8	7.1	19	17.4	30.2	Stainless
N2405-06-06-SS	3/8	3/8	40.1	15.0	20.3	17.8	7.1	22.2	17.4	31.8	Stainless
N2405-06-08-SS	3/8	1/2	44.9	19.8	20.3	17.8	7.1	27	17.4	36.6	Stainless
N2405-08-04-SS	1/2	1/4	40.3	15.0	21.8	22.8	10.4	20.6	22.2	30.2	Stainless
N2405-08-06-SS	1/2	3/8	41.9	15.0	21.8	22.8	10.4	22.2	22.2	31.8	Stainless
N2405-08-08-SS	1/2	1/2	46.7	19.8	21.8	22.8	10.4	27	22.2	36.6	Stainless
N2405-08-12-SS	1/2	3/4	48.2	20.6	21.8	22.8	10.4	33.3	22.2	38.1	Stainless
N2405-10-06-SS	5/8	3/8	41.8	15.0	21.7	24.3	12.7	24	25.4	31.8	Stainless
N2405-10-08-SS	5/8	1/2	46.6	19.8	21.7	24.3	12.7	27	25.4	36.6	Stainless
N2405-12-08-SS	3/4	1/2	47.9	19.8	23.0	25.6	15.8	27	28.5	36.6	Stainless
N2405-12-12-SS	3/4	3/4	49.4	20.6	23.0	25.6	15.8	33.3	28.5	38.1	Stainless
N2405-14-12-SS	7/8	3/4	53.1	20.6	25.2	29.3	18.3	36	32	39.6	Stainless
N2405-16-12-SS	1	3/4	54.9	20.6	28.0	32.8	22.3	36	38	41.2	Stainless
N2405-16-16-SS	1	1	63.7	25.4	28.0	32.8	22.3	41	38	50.0	Stainless
N2405-20-20-SS	1-1/4	1-1/4	73.6	25.4	39.0	41.8	27.6	55	50	52.6	Stainless
N2405-24-24-SS	1-1/2	1-1/2	84.4	27.6	46.2	51.0	34.0	60	57	56.2	Stainless



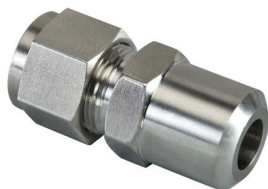
N2406 IN-STDPIPE STRAIGHT

PART NO.	T Tube OD	Tx Tube OD	A mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Material
N2406-02-02-SS	1/8	1/8	33.5	15.6	13.2	2.0	11	11	26.9	Stainless
N2406-02-04-SS	1/8	1/4	36.0	15.6	13.2	4.8	11	11	29.5	Stainless
N2406-04-02-SS	1/4	1/8	36.9	17.8	15.4	2.0	12.7	14.3	29.5	Stainless
N2406-04-04-SS	1/4	1/4	39.2	17.8	15.4	4.8	14.3	14.3	31.8	Stainless
N2406-04-06-SS	1/4	3/8	40.7	17.8	15.4	4.8	14.3	14.3	33.3	Stainless
N2406-04-08-SS	1/4	1/2	46.4	17.8	15.4	4.8	14.3	14.3	39.0	Stainless
N2406-05-06-SS	5/16	3/8	42.6	18.5	16.8	6.3	14.3	16	34.6	Stainless
N2406-05-08-SS	5/16	1/2	48.2	18.5	16.8	6.3	14.3	16	40.2	Stainless
N2406-06-04-SS	3/8	1/4	42.3	20.3	17.8	4.3	16	17.4	34.0	Stainless
N2406-06-06-SS	3/8	3/8	44.1	20.3	17.8	7.1	16	17.4	35.8	Stainless
N2406-06-08-SS	3/8	1/2	49.5	20.3	17.8	7.1	16	17.4	41.2	Stainless
N2406-08-04-SS	1/2	1/4	44.9	21.8	22.8	4.4	20.6	22.2	34.8	Stainless



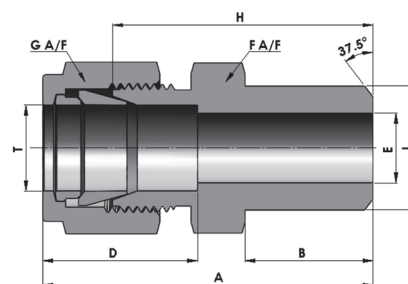
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PART NO.	T Tube OD	Tx Tube OD	A mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Material
N2406-08-06-SS	1/2	3/8	46.7	21.8	22.8	7.1	20.6	22.2	36.6	Stainless
N2406-08-08-SS	1/2	1/2	52.3	21.8	22.8	9.9	20.6	22.2	42.2	Stainless
N2406-08-12-SS	1/2	3/4	53.8	21.8	22.8	10.4	22.2	22.2	43.7	Stainless
N2406-08-16-SS	1/2	1	60.1	21.8	22.8	10.4	27	22.2	50.0	Stainless
N2406-10-12-SS	10-12	3/4	54.5	21.7	24.3	12.7	24	25.4	44.5	Stainless
N2406-10-14-SS	10-12	7/8	56.0	21.7	24.3	12.7	24	25.4	46.0	Stainless
N2406-12-08-SS	3/4	1/2	55.8	23.0	25.6	9.9	27	28.5	44.5	Stainless
N2406-12-16-SS	12-16	1	65.6	23.0	25.6	15.8	27	28.5	54.3	Stainless
N2406-16-20-SS	16-20	1-1/4	82.0	28.0	32.8	22.3	36	38	68.3	Stainless
N2406-16-24-SS	16-24	1-1/2	90.7	28.0	32.8	22.3	41	38	77.0	Stainless



N2425 IN-BW STRAIGHT

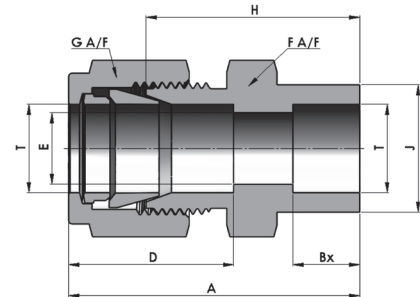
PART NO.	T Tube OD	Pipe Weld M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	J mm	Material
N2425-02-02-SS	1/8	1/8	30.8	9.6	15.6	13.2	2.4	11	11	23.9	10.3	Stainless
N2425-04-02-SS	1/4	1/8	32.8	9.6	17.8	15.4	4.8	12.7	14.3	25.4	10.3	Stainless
N2425-04-04-SS	1/4	1/4	37.9	14.3	17.8	15.4	4.8	14.3	14.3	30.5	13.7	Stainless
N2425-05-02-SS	5/16	1/8	34.7	9.6	18.5	16.8	5.1	14.3	16	26.7	10.3	Stainless
N2425-05-04-SS	5/16	1/4	39.2	14.3	18.5	16.8	6.3	14.3	16	31.2	13.7	Stainless
N2425-06-04-SS	3/8	1/4	40.8	14.3	20.3	17.8	7.1	16	17.4	32.5	13.7	Stainless
N2425-06-06-SS	3/8	3/8	42.1	14.3	20.3	17.8	7.1	19	17.4	33.8	17.0	Stainless
N2425-06-08-SS	3/8	1/2	47.2	19.1	20.3	17.8	7.1	22.2	17.4	38.9	21.3	Stainless
N2425-08-06-SS	1/2	3/8	43.4	14.3	21.8	22.8	10.4	20.6	22.2	33.3	17.0	Stainless
N2425-08-08-SS	1/2	1/2	49.0	19.1	21.8	22.8	10.4	22.2	22.2	38.9	21.3	Stainless
N2425-08-12-SS	1/2	3/4	50.5	19.1	21.8	22.8	10.4	27	22.2	40.4	26.7	Stainless
N2425-10-08-SS	5/8	1/2	48.9	19.1	21.7	24.3	12.7	24	25.4	38.9	21.3	Stainless
N2425-12-12-SS	3/4	3/4	51.7	19.1	23.0	25.6	15.8	27	28.5	40.4	26.7	Stainless
N2425-16-16-SS	1	1	63.7	23.8	28.0	32.8	22.3	36	38	50.0	33.4	Stainless
N2425-20-20-SS	1-1/4	1-1/4	76.2	23.8	39.0	41.8	27.6	46	50	55.2	42.2	Stainless
N2425-24-24-SS	1-1/2	1-1/2	89.9	26.2	46.2	51.0	34	55	57	61.7	48.3	Stainless





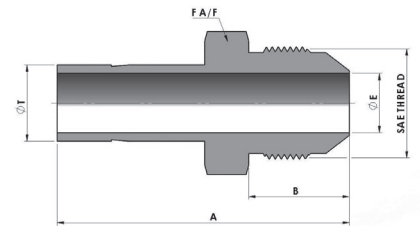
N2426 IN-SW STRAIGHT

PART NO.	T Tube OD	A mm	B mm	Bx mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	J mm	Material
N2426-02-02-SS	1/8	29.8	8.6	2.4	15.6	13.2	2.4	11	11	22.9	7.4	Stainless
N2426-04-04-SS	1/4	33.6	10.4	7.1	17.8	15.4	4.8	14.3	14.3	26.2	12.2	Stainless
N2426-06-06-SS	3/8	38.6	12.0	7.9	20.3	17.8	7.1	16	17.4	30.3	15.2	Stainless
N2426-08-08-SS	1/2	41.1	12.0	9.7	21.8	22.8	10.4	22.2	22.2	31.0	18.5	Stainless
N2426-12-12-SS	3/4	44.6	12.0	11.2	23.0	25.6	15.8	27	28.5	33.3	26.4	Stainless
N2426-16-16-SS	1	54.1	14.3	15.7	28.0	32.8	22.3	36	38	40.4	34.5	Stainless
N2426-20-20-SS	1-1/4	71.3	19.1	19.1	39.0	41.8	27.6	46	50	50.3	42.0	Stainless
N2426-24-24-SS	1-1/2	82.8	19.1	23.8	46.2	51.0	34.0	55	57	54.6	50.0	Stainless



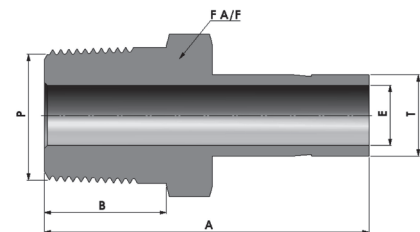
N2427 STDPIPE-MJIC STRAIGHT

PART NO.	Flare	T Tube OD	A mm	OE mm	JIC M	FA/F mm	Material
N2427-04-04-SS	1/4	1/4	37.1	4.3	7/16-20	14.3	Stainless
N2427-06-06-SS	3/8	3/8	39.6	7.1	9/16-18	16	Stainless
N2427-08-08-SS	1/2	1/2	48.5	9.9	3/4-16	22.2	Stainless
N2427-12-12-SS	3/4	3/4	56.1	15.0	1-1/16-12	28.5	Stainless
N2427-16-16-SS	1	1	71.4	20.2	1-5/16-12	36	Stainless



N2428 STDPIPE-MNPT STRAIGHT

PART NO.	P NPT M	T Tube OD	A mm	B mm	E min. mm	FA/F mm	Material
N2428-02-02-SS	1/8	1/8	29.5	9.6	2.3	11	Stainless
N2428-02-04-SS	1/4	1/8	34.8	14.3	2.3	14.3	Stainless
N2428-04-02-SS	1/8	1/4	31.8	9.6	4.8	11	Stainless
N2428-04-04-SS	1/4	1/4	37.0	14.3	4.8	14.3	Stainless
N2428-04-06-SS	3/8	1/4	37.8	14.3	4.8	19	Stainless
N2428-04-08-SS	1/2	1/4	43.4	19.1	4.8	22.2	Stainless
N2428-05-04-SS	1/4	5/16	39.8	14.3	4.8	14.3	Stainless
N2428-06-04-SS	1/4	3/8	38.9	14.3	7.1	14.3	Stainless
N2428-06-06-SS	3/8	3/8	39.6	14.3	7.1	19	Stainless
N2428-06-08-SS	1/2	3/8	45.2	19.1	7.1	22.2	Stainless



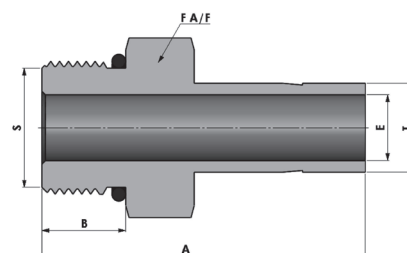
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PART NO.	P NPT M	T Tube OD	A mm	B mm	E min. mm	FA/F mm	Material
N2428-08-04-SS	1/4	1/2	44.5	14.3	7.1	14.3	Stainless
N2428-08-06-SS	3/8	1/2	45.2	14.3	9.9	19	Stainless
N2428-08-08-SS	1/2	1/2	50.8	19.1	9.9	22.2	Stainless
N2428-10-08-SS	1/2	5/8	52.3	19.1	11.9	22.2	Stainless
N2428-12-08-SS	1/2	3/4	52.3	19.1	10.4	22.2	Stainless
N2428-12-12-SS	3/4	3/4	52.3	19.1	15.0	27	Stainless
N2428-16-12-SS	3/4	1	58.7	19.1	15.7	27	Stainless
N2428-16-16-SS	1	1	66.0	23.8	20.3	36	Stainless
N2428-20-20-SS	1-1/4	1-1/4	80.3	23.8	25.9	46	Stainless
N2428-24-24-SS	1-1/2	1-1/2	99.7	26.2	33.0	55	Stainless



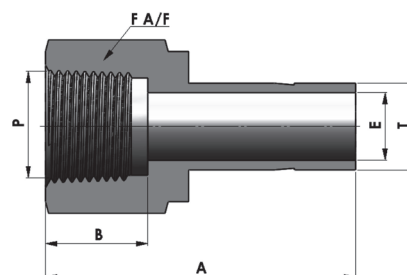
N2429 STDPIPE-MORB STRAIGHT

PART NO.	S UNF M	T Tube OD	A mm	B mm	E min. mm	F mm	Fd A/F mm	O Ring PART NO.	Material
N2429-02-02-SS	5/16-24	1/8	32.5	8.6	2.3	14.3	13.8	4001-02	Stainless
N2429-04-04-SS	7/16-24	1/4	39.1	10.4	4.8	19	18.8	4001-04	Stainless
N2429-05-05-SS	1/2-24	5/16	41.7	11.2	6.3	22.2	21.8	4001-05	Stainless
N2429-06-06-SS	9/16-24	3/8	43.2	12.0	7.1	24	23.6	4001-06	Stainless
N2429-08-08-SS	3/4-24	1/2	49.5	12.0	9.9	27	26.8	4001-08	Stainless
N2429-12-12-SS	1-1/16-12	3/4	55.0	14.3	15.0	38	37.8	4001-12	Stainless
N2429-16-16-SS	1-5/16-12	1	62.5	14.3	19.8	46	44.0	4001-16	Stainless
N2429-20-20-SS	1-5/8-12	1-1/4	79.5	18.3	27.4	55	54.0	4001-20	Stainless
N2429-24-24-SS	1-7/8-12	1-1/2	92.2	19.8	33.3	60	58.0	4001-24	Stainless



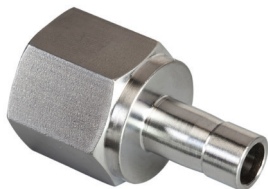
N2430 STDPIPE-FNPT STRAIGHT

PART NO.	P NPT F	T Tube OD	A mm	B mm	E min. mm	FA/F mm	Material
N2430-02-02-SS	1/8	1/8	31.5	10.4	2.0	14.3	Stainless
N2430-02-04-SS	1/4	1/8	34.4	15.0	2.0	19	Stainless
N2430-04-02-SS	1/8	1/4	33.0	10.4	4.8	14.3	Stainless
N2430-04-04-SS	1/4	1/4	37.0	15.0	4.8	19	Stainless
N2430-04-06-SS	3/8	1/4	39.4	15.0	4.8	22.2	Stainless
N2430-04-08-SS	1/2	1/4	45.5	19.8	4.8	27	Stainless
N2430-05-04-SS	1/4	5/16	37.6	15.0	6.3	19	Stainless
N2430-06-04-SS	1/4	3/8	38.1	15.0	7.1	19	Stainless
N2430-06-06-SS	3/8	3/8	40.4	15.0	7.1	22.2	Stainless
N2430-06-08-SS	1/2	3/8	46.7	19.8	7.1	27	Stainless
N2430-08-04-SS	1/4	1/2	43.5	15.0	9.9	19	Stainless
N2430-08-06-SS	3/8	1/2	45.5	15.0	9.9	22.2	Stainless
N2430-08-08-SS	1/2	1/2	51.8	19.8	9.9	27	Stainless
N2430-10-08-SS	1/2	5/8	53.0	19.8	12.7	27	Stainless
N2430-12-08-SS	1/2	3/4	52.8	19.8	15.0	27	Stainless



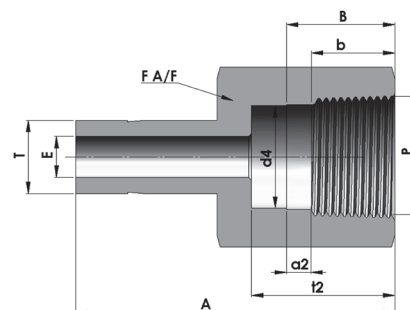
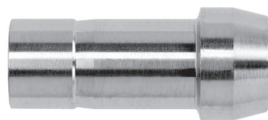
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PART NO.	P NPT F	T Tube OD	A mm	B mm	E min. mm	FA/F mm	Material
N2430-12-12-SS	3/4	3/4	52.8	20.6	15.0	36	Stainless
N2430-12-16-SS	1	3/4	59	25.4	15.0	41	Stainless
N2430-16-12-SS	3/4	1	60.7	20.6	20.3	36	Stainless
N2430-16-16-SS	1	1	64.3	25.4	20.3	41	Stainless
N2430-20-20-SS	1-1/4	1-1/4	77.7	25.4	27.6	55	Stainless
N2430-24-24-SS	1-1/2	1-1/2	88.9	27.6	33.2	60	Stainless



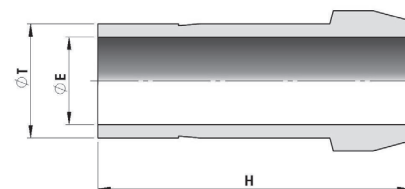
N2431 STDPIPE-FGA STRAIGHT

PART NO.	P ISO F	T Tube OD	A mm	B mm	E min. mm	FA/F mm	a2 mm	d4 mm	b mm	t2 mm	Material
N2431-04-04-SS	1/4	1/4	38.1	13.0	4.8	19	1.6	5.8	9.4	17.0	Stainless
N2431-06-06-SS	3/8	3/8	39.9	14.2	6.6	24	1.6	-	9.9	-	Stainless
N2431-08-08-SS	1/2	1/2	51.3	18.8	7.1	27	1.6	-	14.5	-	Stainless



N2440 STDPIPE-FERR PORT CONNECTOR

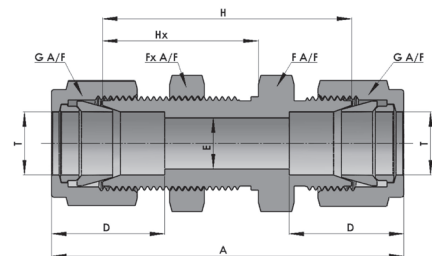
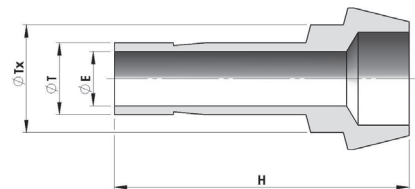
PART NO.	T Tube OD	B mm	E min. mm	H mm	J mm	Material
N2440-02-02-SS	1/8	15.70	2.3	22.4	6.0	Stainless
N2440-04-04-SS	1/4	18.8	4.8	24.6	9.4	Stainless
N2440-06-06-SS	3/8	20.40	7.1	26.3	12.5	Stainless
N2440-08-08-SS	1/2	26.00	9.9	35.8	15.8	Stainless
N2440-12-12-SS	3/4	27.70	15.0	37.4	22	Stainless
N2440-16-16-SS	1	34.50	20.3	49.3	28.2	Stainless





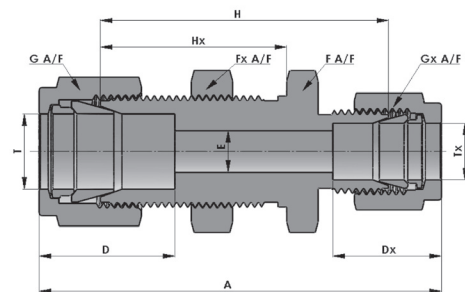
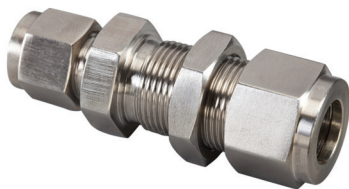
N2440RU STDPIPE-FERR PORT CONNECTOR

PART NO.	T Tube OD	Tx Reduced Tube	B mm	Bx mm	E min. mm	H mm	J mm	Material
N2440-04-02-SS	1/4	1/8	13.5	3.3	2.3	22.6	9.2	Stainless
N2440-06-02-SS	3/8	1/8	13.5	3.8	2.3	23.1	12.5	Stainless
N2440-06-04-SS	3/8	1/4	15.7	3.3	4.8	26	12.5	Stainless
N2440-08-04-SS	1/2	1/4	15.7	3.8	4.8	29.4	15.8	Stainless
N2440-12-08-SS	3/4	1/2	23.1	3.8	9.9	36.9	22.0	Stainless
N2440-16-08-SS	1	1/2	24.4	4.8	9.9	42.6	28.2	Stainless
N2440-16-12-SS	1	3/4	25.9	4.1	15.0	43.4	28.2	Stainless



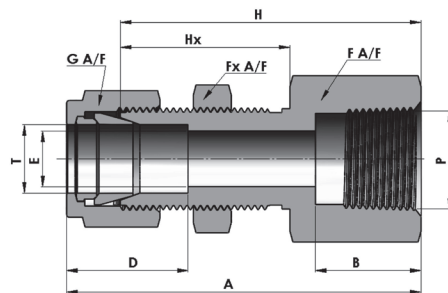
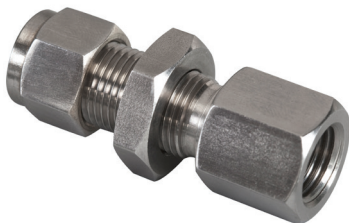
N2700-LN INBH-IN STRAIGHT

PART NO.	T Tube OD	A mm	Ax mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Panel Hole Drill	Max. Panel Thickness	Material
N2700-LN-01-01-SS	1/16	35.7	19.4	13.1	10.7	1.3	11	8	23.8	13.5	5.2	3.0	Stainless
N2700-LN-02-02-SS	1/8	51.8	31.5	15.6	13.2	2.4	12.7	11	38.1	24.6	8.3	12.7	Stainless
N2700-LN-04-04-SS	1/4	57.7	33.6	17.8	15.4	4.8	16	14.3	43.0	26.2	11.5	10.1	Stainless
N2700-LN-05-05-SS	5/16	61.9	36.5	18.5	16.8	6.3	17.4	16	46.0	28.5	13.0	11.1	Stainless
N2700-LN-06-06-SS	3/8	64.0	37.8	20.3	17.8	7.1	19.0	17.4	47.5	29.5	14.6	11.1	Stainless
N2700-LN-08-08-SS	1/2	70.9	41.9	21.8	22.8	10.4	24	22.2	50.8	31.8	19.5	12.7	Stainless
N2700-LN-10-10-SS	5/8	72.3	42.5	21.7	24.3	12.7	27	25.4	52.3	32.5	22.6	12.7	Stainless
N2700-LN-12-12-SS	3/4	81.2	48.7	23.0	25.6	16.0	30	28.5	58.6	37.4	25.8	16.8	Stainless
N2700-LN-16-16-SS	1	98.7	58.9	28.0	32.8	22.3	36	38	71.3	45.2	33.7	19.0	Stainless
N2700-LN-20-20-SS	1-1/4	121.0	68.7	39.0	41.8	27.6	50	50	79.0	47.7	41.6	19.0	Stainless
N2700-LN-24-24-SS	1-1/2	141.4	77.5	46.2	51.0	34.0	60	57	84.9	49.3	49.6	19.0	Stainless
N2700-LN-32-32-SS	2	180.4	93.7	62.7	67.6	46.0	70	76	105.6	56.4	67.0	19.0	Stainless



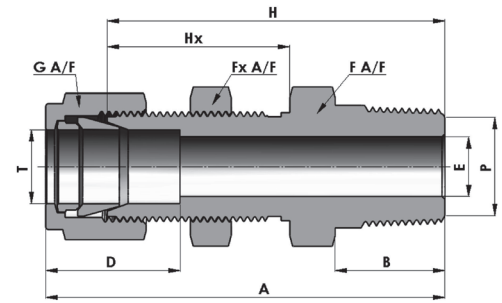
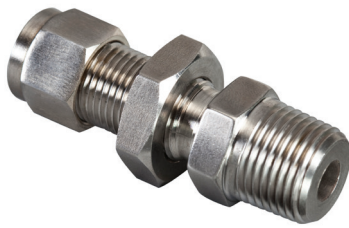
N2700-LNRU INBH-IN STRAIGHT

PART NO.	T Tube OD	Tx Tube OD	A mm	Ax mm	Cx mm	D mm	Dx mm	E min. mm	FA/F mm	GA/F mm	Gx A/F mm	H mm	Hx mm	Panel Hole Drill	Max. Panel Thickness	Material
N2700-LN-04-02-SS	1/4	1/8	55.4	33.6	15.6	15.4	13.2	2.4	16	14.3	11	41.2	26.2	11.5	10.2	Stainless
N2700-LN-06-04-SS	3/8	1/4	61.6	37.8	17.8	17.8	15.4	4.8	19	17.4	14.3	46.0	29.5	14.6	11.2	Stainless
N2700-LN-08-04-SS	1/2	1/4	66.6	41.9	17.8	22.8	15.4	4.8	24	22.2	14.3	49.2	31.8	19.5	12.7	Stainless
N2700-LN-08-06-SS	1/2	3/8	67.5	41.9	20.3	22.8	17.8	7.1	24	22.2	17.4	49.2	31.8	19.5	12.7	Stainless



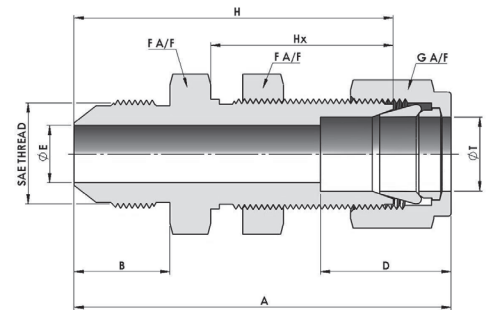
N2705-LN INBH-FNPT STRAIGHT

PART NO.	T Tube OD	P NPT F	A mm	Ax mm	B mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Panel Hole Drill	Max. Panel Thickness	Material
N2705-LN-02-02-SS	1/8	1/8	45.0	31.5	10.4	13.2	2.4	14	11	38.1	24.6	8.3	12.7	Stainless
N2705-LN-04-02-SS	1/4	1/8	47.1	33.6	10.4	15.4	4.8	16	14.3	39.7	26.2	11.5	10.2	Stainless
N2705-LN-04-04-SS	1/4	1/4	51.9	33.6	15.0	15.4	4.8	19	14.3	44.5	26.2	11.5	10.2	Stainless
N2705-LN-06-04-SS	3/8	1/4	55.8	37.8	15.0	17.8	7.1	19	17.4	47.5	29.5	14.7	11.2	Stainless
N2705-LN-08-06-SS	1/2	3/8	61.7	41.9	15.0	22.8	10.4	24	22.2	51.6	31.8	19.5	12.7	Stainless
N2705-LN-08-08-SS	1/2	1/2	66.5	41.9	19.8	22.8	10.4	27	22.2	56.4	31.8	19.5	12.7	Stainless
N2705-LN-10-08-SS	5/8	1/2	67.4	42.5	19.8	24.3	12.7	27	25.4	57.4	32.5	22.6	12.7	Stainless
N2705-LN-12-08-SS	3/4	3/4	73.6	48.7	19.8	25.6	15.8	36	28.5	62.3	37.4	25.8	16.8	Stainless
N2705-LN-12-12-SS	3/4	3/4	75.6	48.7	20.6	25.6	15.8	36	28.5	64.3	37.4	25.8	16.8	Stainless
N2705-LN-16-16-SS	1	1	94.7	58.9	20.6	32.8	22.3	41	38	81.0	45.2	33.7	19.0	Stainless
N2705-LN-20-20-SS	1-1/4	1-1/4	104.5	68.7	25.4	41.8	27.6	50	50	83.5	47.7	41.6	19.0	Stainless
N2705-LN-24-24-SS	1-1/2	1-1/2	115.6	77.5	27.6	51.0	34.0	60	57	87.4	49.3	49.6	19.0	Stainless



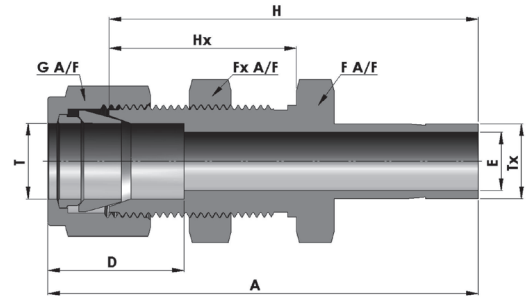
N2706-LN INBH-MNPT STRAIGHT

PART NO.	T Tube OD	P NPT M	A mm	Ax mm	B mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Panel Hole Drill	Max. Panel Thickness	Material
N2706-LN-02-02-SS	1/8	1/8	46.7	31.5	9.6	13.2	2.4	14.3	11	39.8	24.6	8.3	12.7	Stainless
N2706-LN-04-02-SS	1/4	1/8	49.6	33.6	9.6	15.4	4.8	16	14.3	42.2	26.2	11.5	10.2	Stainless
N2706-LN-04-04-SS	1/4	1/4	54.1	33.6	14.3	15.4	4.8	16	14.3	46.7	26.2	11.5	10.2	Stainless
N2706-LN-06-04-SS	3/8	1/4	58.3	37.8	14.3	17.8	7.1	19	17.4	50.0	29.5	14.7	11.2	Stainless
N2706-LN-06-06-SS	3/8	3/8	58.3	37.8	14.3	17.8	7.1	19	17.4	50.0	29.5	14.7	11.2	Stainless
N2706-LN-06-08-SS	3/8	1/2	64.8	37.8	19.1	17.8	7.1	22.2	17.4	56.5	29.5	14.7	11.2	Stainless
N2706-LN-08-06-SS	1/2	3/8	63.1	41.9	14.3	22.8	9.6	24	22.2	53.0	31.8	19.5	12.7	Stainless
N2706-LN-08-08-SS	1/2	1/2	68.9	41.9	19.1	22.8	10.4	24	22.2	58.8	31.8	19.5	12.7	Stainless
N2706-LN-12-12-SS	3/4	3/4	78.2	48.7	19.1	25.6	15.8	30	28.5	66.9	37.4	25.8	16.8	Stainless
N2706-LN-16-16-SS	1	1	94.7	58.9	23.9	32.8	22.3	41	38	81.0	45.2	33.7	19.0	Stainless
N2706-LN-20-20-SS	1-1/4	1-1/4	108.5	70.5	23.9	41.8	27.6	50	50	87.5	49.5	42.5	19.0	Stainless
N2706-LN-24-24-SS	1-1/2	1-1/2	123.7	79.7	26.2	51.0	34.0	60	57	95.5	51.5	50.5	19.0	Stainless



N2707-LN INBH-MJ STRAIGHT

PART NO.	T Tube OD	AN Tube Flare	A mm	Ax mm	D mm	E min mm	FA/F mm	GA/F mm	H mm	Hx mm	S Thread	Panel Hole Drill	Max. Panel Thickness	Material
N2707-LN-04-04-SS	1/4	1/4	53.9	33.6	15.4	4.4	5/8	9/16	46.5	26.2	7/16-20	11.5	10.1	Stainless
N2707-LN-06-06-SS	3/8	3/8	58.1	37.8	17.8	7.1	3/4	11/16	49.8	29.5	9/16-18	14.7	11.1	Stainless
N2707-LN-08-08-SS	1/2	1/2	65.7	41.9	22.8	9.9	15/16	7/8	55.6	31.8	3/4-16	19.5	12.7	Stainless
N2707-LN-12-12-SS	3/4	3/4	80.1	48.6	25.6	15.5	1-3/16	1-1/8	68.8	37.3	1-1/16-12	25.8	16.7	Stainless
N2707-LN-16-16-SS	1	1	94.0	58.9	32.8	21.3	1-5/8	1-1/2	80.3	45.2	1-5/16-12	33.7	19.0	Stainless



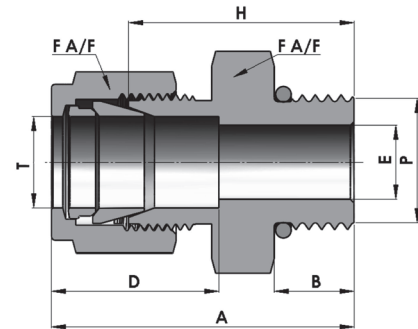
N2709-LN INBH-STDPIPE STRAIGHT

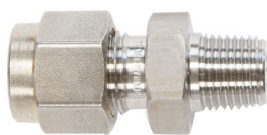
PART NO.	T Tube OD	Tx Tube OD	A mm	Ax mm	D mm	E min. mm	FA/F mm	GA/F mm	HD mm	Hx mm	Panel Hole Drill	Max. Panel Thickness	Material
N2709-LN-02-02-SS	1/8	1/8	49.9	31.5	13.2	2.0	12.7	11	43.0	24.6	8.3	12.7	Stainless
N2709-LN-04-04-SS	1/4	1/4	55.9	33.6	15.4	4.8	16	14.3	48.5	26.2	11.5	10.2	Stainless
N2709-LN-06-06-SS	3/8	3/8	62.1	37.8	17.8	7.1	19	17.4	53.8	29.5	14.7	11.2	Stainless
N2709-LN-08-08-SS	1/2	1/2	72.8	41.9	22.8	9.9	24	22.2	62.7	31.8	19.5	12.7	Stainless
N2709-LN-10-10-SS	5/8	5/8	75.0	42.5	24.3	12.7	27	25.4	65.0	32.5	22.6	12.7	Stainless
N2709-LN-16-16-SS	1	1	101.8	58.9	32.8	20.3	36	38	88.1	45.2	33.7	19.1	Stainless
N2709-LN-20-20-SS	1-1/4	1-1/4	110.9	68.7	41.8	27.4	50	50	89.9	47.7	41.6	19.1	Stainless
N2709-LN-24-24-SS	1-1/2	1-1/2	128.3	77.5	51.0	33.0	60	60	100.1	49.3	49.6	19.1	Stainless



N6400 IN-MORB STRAIGHT

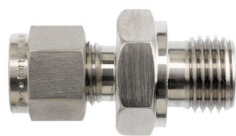
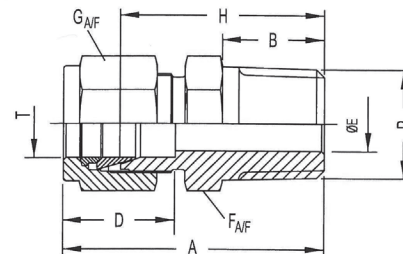
PART NO.	T Tube OD	S Thread M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	O Ring Part #	Material
N6400-02-02-O-SS	1/8	5/16-24	30.3	7.6	15.6	13.2	2.3	7/16	7/16	23.4	4001-02	Stainless
N6400-04-04-O-SS	1/4	7/16-20	34.1	11	17.8	15.4	4.8	9/16	9/16	26.7	4001-04	Stainless
N6400-04-06-O-SS	1/4	9/16-18	35.6	9.9	17.8	15.4	4.8	11/16	9/16	28.2	4001-06	Stainless
N6400-04-08-O-SS	1/4	3/4-16	37.6	11.2	17.8	15.4	4.8	7/8	9/16	30.2	4001-08	Stainless
N6400-05-05-O-SS	5/16	1/2-20	35.4	9.1	18.5	16.8	6.3	5/8	5/8	27.4	4001-05	Stainless
N6400-06-06-O-SS	3/8	9/16-18	38.0	9.9	20.3	17.8	7.1	11/16	11/16	29.7	4001-06	Stainless
N6400-08-08-O-SS	1/2	3/4-16	41.8	11.2	21.8	22.8	10.4	7/8	7/8	31.7	4001-08	Stainless
N6400-08-10-O-SS	1/2	7/8-14	48.5	12.7	21.8	22.8	10.4	1.00	7/8	38.4	4001-10	Stainless
N6400-10-10-O-SS	5/8	7/8-14	45.1	12.7	21.7	24.3	12.7	1.00	1.00	35.1	4001-10	Stainless
N6400-12-12-O-SS	3/4	1-1/16-12	50.2	15.0	23.0	25.6	15.8	1-1/4	1-1/8	38.9	4001-12	Stainless
N6400-16-12-O-SS	1	1-1/16-12	54.8	15.0	28.0	32.8	22.3	1-1/2	1-1/2	41.1	4001-12	Stainless
N6400-16-16-O-SS	1	1-5/16-12	55.9	15.0	28.0	32.8	22.3	1-1/2	1-1/2	42.2	4001-16	Stainless





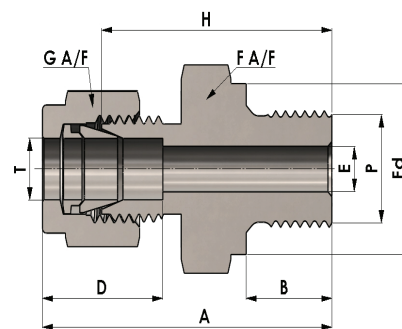
N7000 IN-MBSPT STRAIGHT

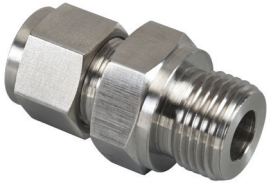
PART NO.	T Tube OD	P ISO M	A	B	C	D	Emin.	FA/F	GA/F	H	Material
N7000-02-02-SS	1/8	1/8	1.21	0.38	0.61	0.52	0.09	0.44	0.43	0.94	Stainless
N7000-02-04-SS	1/8	1/4	1.41	0.56	0.61	0.52	0.09	0.56	0.43	1.14	Stainless
N7000-04-02-SS	1/4	1/8	1.29	0.38	0.7	0.61	0.19	0.56	0.56	1	Stainless
N7000-04-04-SS	1/4	1/4	1.49	0.56	0.7	0.61	0.19	0.56	0.56	1.2	Stainless
N7000-04-06-SS	1/4	3/8	1.51	0.56	0.7	0.61	0.19	0.75	0.56	1.22	Stainless
N7000-04-08-SS	1/4	1/2	1.76	0.75	0.7	0.61	0.19	0.87	0.56	1.47	Stainless
N7000-06-02-SS	3/8	1/8	1.43	0.38	0.8	0.7	0.19	0.63	0.67	1.1	Stainless
N7000-06-04-SS	3/8	1/4	1.61	0.56	0.8	0.7	0.28	0.63	0.67	1.28	Stainless
N7000-06-06-SS	3/8	3/8	1.61	0.56	0.8	0.7	0.28	0.75	0.67	1.28	Stainless
N7000-06-08-SS	3/8	1/2	1.86	0.75	0.8	0.7	0.28	0.87	0.67	1.53	Stainless
N7000-08-04-SS	1/2	1/4	1.71	0.56	0.86	0.9	0.28	0.87	0.87	1.31	Stainless
N7000-08-06-SS	1/2	3/8	1.71	0.56	0.86	0.9	0.38	0.81	0.87	1.31	Stainless
N7000-08-08-SS	1/2	1/2	1.93	0.75	0.86	0.9	0.41	0.87	0.87	1.53	Stainless
N7000-12-12-SS	3/4	3/4	2.03	0.75	0.91	1.01	0.62	1.06	1.12	1.59	Stainless
N7000-16-16-SS	1	1	2.51	0.94	1.1	1.29	0.88	1.42	1.5	1.97	Stainless



N7002 IN-MBSPP STRAIGHT

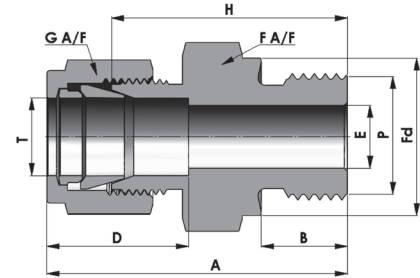
PART NO.	T Tube OD	P ISO M	A	B	C	D	E	FA/F	Fd	GA/F	H	Material
N7002-02-02-SS	1/8	1/8	1.53	.28	0.61	0.52	.09	.56	.54	.43	.92	Stainless
N7002-02-04-SS	1/8	1/4	1.74	.44	0.61	0.52	.09	.75	.71	.43	1.13	Stainless
N7002-04-02-SS	1/4	1/8	1.68	.28	0.7	0.61	.19	.56	.54	.56	.98	Stainless
N7002-04-04-SS	1/4	1/4	1.89	.44	0.7	0.61	.19	.75	.71	.56	1.19	Stainless
N7002-06-04-SS	3/8	1/4	2.05	.44	0.8	0.7	.23	.75	.71	.67	1.25	Stainless
N7002-06-06-SS	3/8	3/8	2.1	.44	0.8	0.7	.28	.87	.86	.67	1.30	Stainless
N7002-06-08-SS	3/8	1/2	2.33	.56	0.8	0.7	.28	1.06	1.02	.67	1.53	Stainless
N7002-08-04-SS	1/2	1/4	2.14	.44	0.86	0.9	.23	.81	.71	.87	1.28	Stainless
N7002-08-06-SS	1/2	3/8	2.16	.44	0.86	0.9	.31	.87	.86	.87	1.30	Stainless
N7002-08-08-SS	1/2	1/2	2.39	.56	0.86	0.9	.41	1.06	1.02	.87	1.53	Stainless
N7002-08-12-SS	1/2	3/4	2.54	0.62	0.86	0.9	.41	1.42	1.26	.87	1.68	Stainless
N7002-10-08-SS	5/8	1/2	2.44	0.56	0.85	0.96	.47	1.26	1.25	.87	1.59	Stainless
N7002-12-08-SS	3/4	1/2	2.44	.56	0.91	1.01	.47	1.06	1.02	1.12	1.53	Stainless
N7002-12-12-SS	3/4	3/4	2.59	.62	0.91	1.01	.62	1.26	1.24	1.12	1.68	Stainless
N7002-12-16-SS	3/4	1	2.71	0.72	0.91	1.01	.62	1.61	1.54	1.12	1.80	Stainless
N7002-16-08-SS	1	1/2	2.82	.56	1.1	1.29	.47	1.42	1.02	1.50	1.72	Stainless
N7002-16-12-SS	1	3/4	2.88	.62	1.1	1.29	.62	1.42	1.26	1.50	1.78	Stainless
N7002-16-16-SS	1	1	2.98	.72	1.1	1.29	.78	1.61	1.54	1.50	1.88	Stainless





N7013 IN-MBSPP FORM B STRAIGHT

PART NO.	T Tube OD	P ISO M	A	B	C	D	E	FA/F	Fd	GA/F	H	Material
N7013-02-02-SS	1/8	1/8	1.22	0.28	0.61	0.52	0.09	0.56	0.53	0.43	0.95	Stainless
N7013-02-04-SS	1/8	1/4	1.40	0.44	0.61	0.52	0.09	0.75	0.71	0.43	1.13	Stainless
N7013-04-02-SS	1/4	1/8	1.27	0.28	0.70	0.61	0.19	0.56	0.53	0.56	0.98	Stainless
N7013-04-04-SS	1/4	1/4	1.48	0.44	0.70	0.61	0.19	0.75	0.71	0.56	1.19	Stainless
N7013-06-04-SS	3/8	1/4	1.58	0.44	0.80	0.70	0.23	0.75	0.71	0.67	1.25	Stainless
N7013-06-06-SS	3/8	3/8	1.63	0.44	0.80	0.70	0.28	0.87	0.86	0.67	1.3	Stainless
N7013-06-08-SS	3/8	1/2	1.86	0.56	0.80	0.70	0.28	1.06	1.02	0.67	1.53	Stainless
N7013-08-04-SS	1/2	1/4	1.68	0.44	0.86	0.90	0.23	0.83	0.71	0.87	1.28	Stainless
N7013-08-06-SS	1/2	3/8	1.70	0.44	0.86	0.90	0.31	0.87	0.86	0.87	1.3	Stainless
N7013-08-08-SS	1/2	1/2	1.93	0.56	0.86	0.90	0.41	1.06	1.02	0.87	1.53	Stainless
N7013-08-12-SS	1/2	3/4	2.08	0.62	0.86	0.90	0.41	1.42	1.26	0.87	1.68	Stainless
N7013-10-08-SS	5/8	1/2	1.98	0.56	0.85	0.96	0.47	1.26	1.25	0.87	1.59	Stainless
N7013-12-08-SS	3/4	1/2	1.97	0.56	0.91	1.01	0.47	1.06	1.02	1.12	1.53	Stainless
N7013-12-12-SS	3/4	3/4	2.12	0.62	0.91	1.01	0.62	1.42	1.26	1.12	1.68	Stainless
N7013-12-16-SS	3/4	1	2.24	0.72	0.91	1.01	0.62	1.61	1.54	1.12	1.8	Stainless
N7013-16-08-SS	1	1/2	2.26	0.56	1.10	1.29	0.47	1.42	1.02	1.5	1.72	Stainless
N7013-16-12-SS	1	3/4	2.32	0.62	1.10	1.29	0.62	1.42	1.26	1.5	1.78	Stainless
N7013-16-16-SS	1	1	2.42	0.72	1.10	1.29	0.78	1.61	1.54	1.5	1.88	Stainless

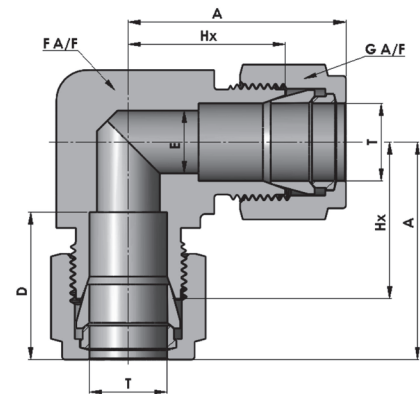


ELBOWS



N2500 IN-IN 90° ELBOW

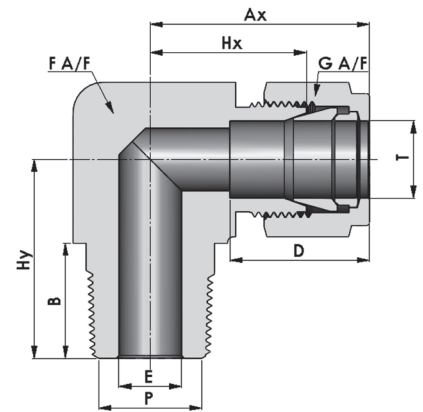
PART NO.	T Tube OD	A mm	C mm	D mm	E min. mm	FA/F mm	G mm	Hx mm	Material
N2500-01-01-SS	1/16	19.9	13.1	10.7	1.3	11	8	14.0	Stainless
N2500-02-02-SS	1/8	23.4	15.6	13.2	2.4	12.7	11	16.5	Stainless
N2500-04-04-SS	1/4	27.0	17.8	15.4	4.8	14.3	14.3	19.6	Stainless
N2500-05-05-SS	5/16	27.6	18.5	16.8	6.3	14.3	16	19.6	Stainless
N2500-06-06-SS	3/8	31.5	20.3	17.8	7.1	17.4	17.4	23.2	Stainless
N2500-08-08-SS	1/2	36.0	21.8	22.8	10.4	20.6	22.2	25.9	Stainless
N2500-10-10-SS	5/8	37.9	21.7	24.3	12.7	24	25.4	27.9	Stainless
N2500-12-12-SS	3/4	41.0	23.0	25.6	15.8	27	28.5	29.7	Stainless
N2500-14-14-SS	7/8	48.1	25.2	29.3	18.2	32	32	34.6	Stainless
N2500-16-16-SS	1	50.5	28.0	32.8	22.3	36	38	36.8	Stainless
N2500-20-20-SS	1-1/4	25.5	39.0	41.8	27.6	46	50	44.5	Stainless
N2500-24-24-SS	1-1/2	79.0	46.2	51.0	34.0	55	57	50.8	Stainless
N2500-32-32-SS	2	107.2	62.7	67.6	46.0	70	76	69.9	Stainless





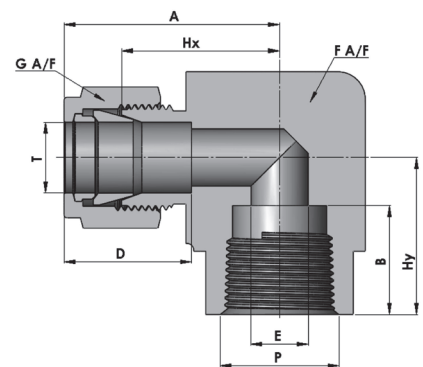
N2501 IN-MNPT 90° ELBOW

PART NO.	T Tube OD	P NPT M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	Hx mm	Hy mm	Material
N2501-01-01-SS	1/16	1/16	21.2	9.6	13.1	10.7	1.3	11	8	15.3	17.8	Stainless
N2501-01-02-SS	1/16	1/8	21.2	9.6	13.1	10.7	1.3	11	8	15.3	17.8	Stainless
N2501-02-02-SS	1/8	1/8	23.9	9.6	15.6	13.2	2.4	12.7	11	17.0	17.8	Stainless
N2501-02-04-SS	1/8	1/4	24.9	14.3	15.6	13.2	2.4	14.3	11	18.0	23.4	Stainless
N2501-04-02-SS	1/4	1/8	27.0	9.6	17.8	15.4	4.8	14.3	14.3	19.6	18.8	Stainless
N2501-04-04-SS	1/4	1/4	27.0	14.3	17.8	15.4	4.8	14.3	14.3	19.6	23.4	Stainless
N2501-04-06-SS	1/4	3/8	29.8	14.3	17.8	15.4	4.8	19	14.3	22.4	26.2	Stainless
N2501-04-08-SS	1/4	1/2	31.8	19.1	17.8	15.4	4.8	22.2	14.3	24.4	33.0	Stainless
N2501-05-04-SS	5/16	1/4	29.3	9.6	18.5	16.8	6.3	14.3	16	21.3	24.4	Stainless
N2501-06-02-SS	3/8	1/8	31.4	9.6	20.3	17.8	4.8	17.4	17.4	23.1	20.9	Stainless
N2501-06-04-SS	3/8	1/4	31.4	14.3	20.3	17.8	7.1	17.4	17.4	23.1	25.4	Stainless
N2501-06-06-SS	3/8	3/8	32.2	14.3	20.3	17.8	7.1	19	17.4	23.9	26.2	Stainless
N2501-06-08-SS	3/8	1/2	34.2	19.1	20.3	17.8	7.1	22.2	17.4	25.9	33.0	Stainless
N2501-08-02-SS	1/2	1/8-27	36.0	9.6	21.8	22.8	4.8	20.6	22.2	25.9	23.6	Stainless
N2501-08-04-SS	1/2	1/4	36.0	14.3	21.8	22.8	7.1	22	22.2	25.9	28.2	Stainless
N2501-08-06-SS	1/2	3/8	36.0	14.3	21.8	22.8	9.6	20.6	22.2	25.9	28.2	Stainless
N2501-08-08-SS	1/2	1/2	36.0	19.1	21.8	22.8	10.4	22	22.2	25.9	33.0	Stainless
N2501-08-12-SS	1/2	3/4	39.8	19.1	21.8	22.8	10.4	27	22.2	29.7	36.8	Stainless
N2501-10-08-SS	5/8	1/2	37.9	19.1	21.7	24.3	11.9	24	25.4	27.9	35.0	Stainless
N2501-12-08-SS	3/4	1/2	41.0	19.1	23.0	25.6	11.9	27	28.5	29.7	36.8	Stainless
N2501-12-12-SS	3/4	3/4	41.0	19.1	23.0	25.6	15.8	27	28.5	29.7	36.8	Stainless
N2501-14-12-SS	7/8	3/4	48.0	19.1	25.2	29.3	15.8	36	32	34.5	41.7	Stainless
N2501-16-12-SS	1	3/4	50.5	19.1	28.0	32.8	15.8	36	38	36.8	41.7	Stainless
N2501-16-16-SS	1	1	50.5	23.8	28.0	32.8	22.3	36	38	36.8	46.5	Stainless
N2501-20-20-SS	1-1/4	1-1/4	67.0	23.8	39.0	41.8	27.6	46	50	46	53	Stainless
N2501-24-24-SS	1-1/2	1-1/2	80.0	26.2	46.2	51.0	34.0	55	57	51.8	60.5	Stainless
N2501-32-32-SS	2	2	107.2	26.9	62.7	67.6	46.0	70	76	69.9	70.6	Stainless



N2502 IN-FNPT 90° ELBOW

PART NO.	T Tube OD	P NPT F	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	Hx mm	Hy mm	Material
N2502-02-02-SS	1/8	1/8	24.9	10.4	15.6	13.2	2.4	14.3	11	18.0	19.0	Stainless
N2502-02-04-SS	1/8	1/4	27.7	15.0	15.6	13.2	2.4	19	11	20.8	22.4	Stainless
N2502-04-02-SS	1/4	1/8	27.0	10.4	17.8	15.4	4.8	14.3	14.3	19.6	19.0	Stainless
N2502-04-04-SS	1/4	1/4	29.8	15.0	17.8	15.4	4.8	19	14.3	22.4	22.4	Stainless
N2502-04-06-SS	1/4	3/8	32.8	15.0	17.8	15.4	4.8	22.2	14.3	25.4	22.4	Stainless
N2502-04-08-SS	1/4	1/2	34.6	19.8	17.8	15.4	4.8	27	14.3	27.2	28.5	Stainless
N2502-05-02-SS	5/16	1/8	31.2	10.4	18.5	16.8	6.3	19	16	23.2	22.4	Stainless
N2502-05-04-SS	5/16	1/4	31.2	15.0	18.5	16.8	6.4	19	16	23.2	22.4	Stainless
N2502-06-02-SS	3/8	1/8	31.5	10.4	20.3	17.8	7.1	17.4	17.4	23.2	19.1	Stainless
N2502-06-04-SS	3/8	1/4	32.2	15.0	20.3	17.8	7.1	19	17.4	23.9	22.4	Stainless
N2502-06-06-SS	3/8	3/8	34.2	15.0	20.3	17.8	7.1	22.2	17.4	25.9	22.4	Stainless



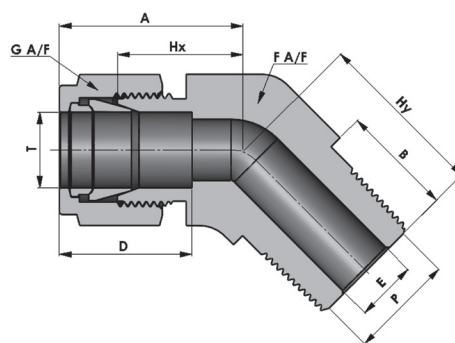
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PART NO.	T Tube OD	P NPT F	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	Hx mm	Hy mm	Material
N2502-06-08-SS	3/8	1/2	37.0	19.8	20.3	17.8	7.1	27	17.4	28.7	28.5	Stainless
N2502-08-04-SS	1/2	1/4	36.0	15.0	21.8	22.8	10.4	20.6	22.2	25.9	22.4	Stainless
N2502-08-06-SS	1/2	3/8	36.0	15.0	21.8	22.8	10.4	22.2	22.2	25.9	22.4	Stainless
N2502-08-08-SS	1/2	1/2	38.8	19.8	21.8	22.8	10.4	27	22.2	28.7	28.5	Stainless
N2502-10-06-SS	5/8	3/8	38.0	15.0	21.7	24.3	12.7	24	25.4	28.0	22.4	Stainless
N2502-10-08-SS	5/8	1/2	39.7	19.8	21.7	24.3	12.7	27	25.4	29.7	28.5	Stainless
N2502-12-08-SS	3/4	1/2	41.0	19.8	23.0	25.6	15.8	27	28.5	29.7	28.5	Stainless
N2502-12-12-SS	3/4	3/4	45.9	20.6	23.0	25.6	15.8	36	28.5	34.6	31.8	Stainless
N2502-14-12-SS	7/8	3/4	48.1	20.6	25.2	29.3	18.2	36	32	34.6	31.8	Stainless
N2502-16-12-SS	1	3/4	50.5	20.6	28.0	32.8	22.3	36	38	36.8	31.8	Stainless
N2502-16-16-SS	1	1	55.1	25.4	28.0	32.8	22.3	41	38	41.4	38.1	Stainless



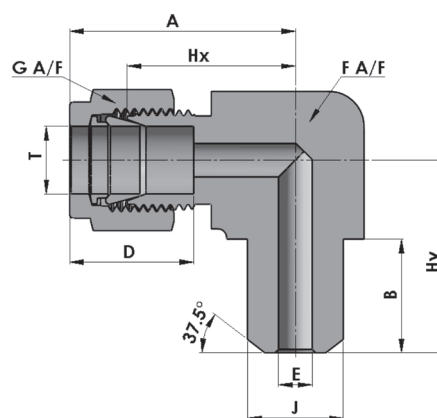
N2503 IN-MNPT 45 ELBOW

PART NO.	T Tube OD	P NPT M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	Hx mm	Hy mm	Material
N2503-04-02-SS	1/4	1/8	24.7	9.6	17.8	15.4	4.8	14.3	14.3	17.3	16.5	Stainless
N2503-04-04-SS	1/4	1/4	24.7	14.3	17.8	15.4	4.8	14.3	14.3	17.3	21.0	Stainless
N2503-06-02-SS	3/8	1/8	28.9	9.6	20.3	17.8	4.8	17.4	17.4	20.6	18.3	Stainless
N2503-06-04-SS	3/8	1/4	28.9	14.3	20.3	17.8	7.1	17.4	17.4	20.6	22.9	Stainless
N2503-06-06-SS	3/8	3/8	28.9	14.3	20.3	17.8	7.1	19.0	17.4	20.6	24.1	Stainless
N2503-08-06-SS	1/2	3/8	31.9	14.3	21.8	22.8	9.6	20.6	22.2	21.8	24.1	Stainless
N2503-08-08-SS	1/2	1/2	31.9	19.1	21.8	22.8	10.4	22.2	22.2	21.8	29.0	Stainless
N2503-12-12-SS	3/4	3/4	35.2	19.1	23.0	25.6	15.8	27	28.5	23.9	31.8	Stainless
N2503-16-16-SS	1	1	39.9	23.8	28.0	32.8	22.3	36	38	26.2	37.8	Stainless



N2525 IN-BW 90 ELBOW

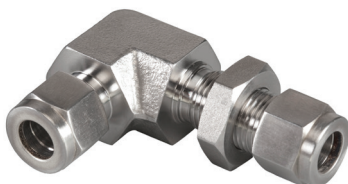
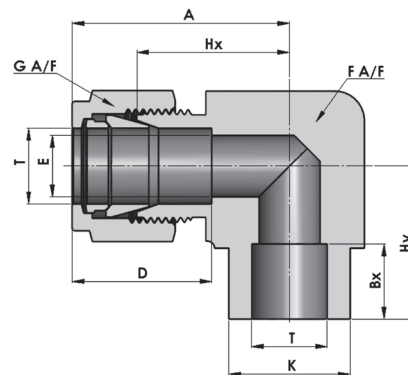
PART NO.	T Tube OD	Pipe Weld M	A mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	Hx mm	Hy mm	J mm	Material
N2525-04-02-SS	1/4	1/8	27.0	9.6	17.8	15.4	4.8	14	14.3	19.6	18.8	10.3	Stainless
N2525-04-04-SS	1/4	1/4	27.0	14.3	17.8	15.4	4.8	14.3	14.3	19.6	23.4	13.7	Stainless
N2525-06-04-SS	3/8	1/4	31.4	14.3	20.3	17.8	7.1	17.4	17.4	23.1	25.4	13.7	Stainless
N2525-08-08-SS	1/2	1/2	36.0	19.1	21.8	22.8	10.4	22.2	22.2	25.9	33.0	21.3	Stainless
N2525-12-12-SS	3/4	3/4	41.0	19.1	23.0	25.6	15.8	27	28.5	29.7	36.8	26.7	Stainless
N2525-16-16-SS	1	1	50.5	23.8	28.0	32.8	22.3	36	38	36.8	46.5	33.4	Stainless
N2525-20-20-SS	1-1/4	1-1/4	65.5	23.8	39.0	41.8	27.6	45	50	44.5	47.8	42.2	Stainless
N2525-24-24-SS	1-1/2	1-1/2	79.0	26.2	46.2	51.0	34.0	50	57	50.8	60.5	48.3	Stainless





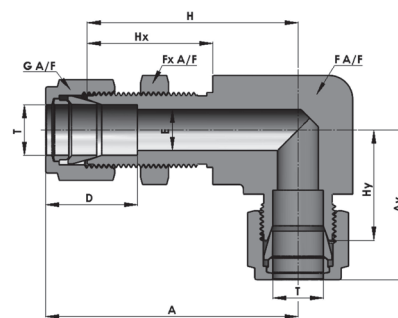
N2526 IN-SW 90 ELBOW

PART NO.	T Tube OD	A mm	Bx mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	Hx mm	Hy mm	K mm	Material
N2526-04-04-SS	1/4	27.0	7.1	17.8	15.4	4.8	14.3	14.3	19.6	19.6	12.7	Stainless
N2526-06-06-SS	3/8	31.4	7.9	20.3	17.8	7.1	16	17.4	23.1	23.1	15.8	Stainless
N2526-08-08-SS	1/2	36.0	9.7	21.8	22.8	10.4	22.2	22.2	25.9	25.9	20.6	Stainless
N2526-12-12-SS	3/4	41.0	11.2	23.0	25.6	15.8	27	28.5	29.7	29.7	27.0	Stainless
N2526-16-16-SS	1	50.5	15.7	28.0	32.8	22.3	36	38	36.8	36.8	35.0	Stainless
N2526-20-20-SS	1-1/4	65.5	19.1	39.0	41.8	27.6	46	50	44.5	47.8	43.0	Stainless
N2526-24-24-SS	1-1/2	79.0	23.8	46.2	51.0	34.0	50	57	50.8	60.4	48.0	Stainless



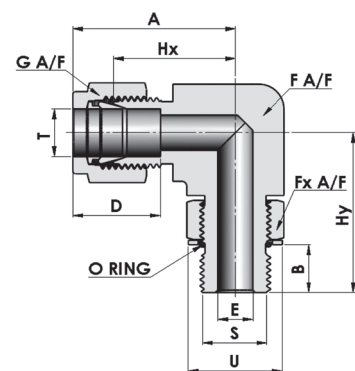
N2701-LN INBH-IN 90 ELBOW

PART NO.	T Tube OD	A mm	Ax mm	Ay mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Hy mm	Panel Hole Drill	Max. Panel Thickness	Material
N2701-LN-02-02-SS	1/8	43.4	31.5	22.7	15.6	13.2	2.4	11	11	36.5	24.6	15.8	8.3	12.7	Stainless
N2701-LN-04-04-SS	1/4	48.9	33.6	29.4	17.8	15.4	4.8	17.4	14.3	41.5	26.2	22	11.5	10.1	Stainless
N2701-LN-06-06-SS	3/8	55.1	37.8	31.5	20.3	17.8	7.1	22	17.4	46.8	29.5	23.2	14.6	11.1	Stainless
N2701-LN-08-08-SS	1/2	63.5	41.9	36.0	21.8	22.8	10.4	24	22.2	53.4	31.8	25.9	19.5	12.7	Stainless
N2701-LN-12-12-SS	3/4	76.5	48.7	41.0	23.0	25.6	16.0	30	28.5	65.2	37.4	29.7	25.8	16.8	Stainless
N2701-LN-16-16-SS	1	93.3	58.9	50.5	28.0	32.8	22.3	36	38	79.6	45.2	36.8	33.7	19.0	Stainless



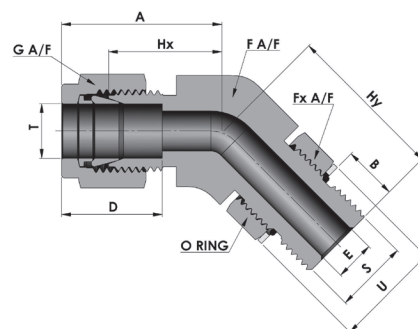
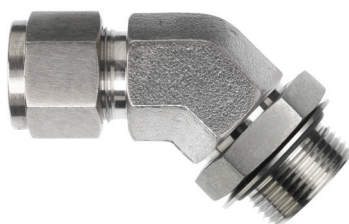
N6801 IN-MAORB 90 ELBOW

PART NO.	T Tube OD	P ISO M	Ax mm	B mm	C mm	D mm	E min. mm	F mm	Fx A/F mm	GA/F mm	Hx mm	Hy mm	U mm	O Ring PART NO.	Material
N6801-04-04-NWO-SS	1/4	7/16-20	28.4	9.9	17.8	15.4	4.8	14.3	14	14.3	21.0	28.5	16.5	4001-04	Stainless
N6801-04-06-NWO-SS	1/4	9/16-18	28.4	11.2	17.8	15.4	4.8	17.4	17	14.3	21.0	31.0	20.0	4001-06	Stainless
N6801-06-06-NWO-SS	3/8	9/16-18	32.9	11.2	20.3	17.8	7.1	17.4	17	17.4	24.6	32.3	20.0	4001-06	Stainless
N6801-06-08-NWO-SS	3/8	3/4-16	35.7	12.7	20.3	17.8	7.1	22.2	22	17.4	27.4	37.8	25.6	4001-08	Stainless
N6801-08-08-NWO-SS	1/2	3/4-16	37.5	12.7	21.8	22.8	10.4	22.2	22	22.2	27.4	37.8	25.6	4001-08	Stainless



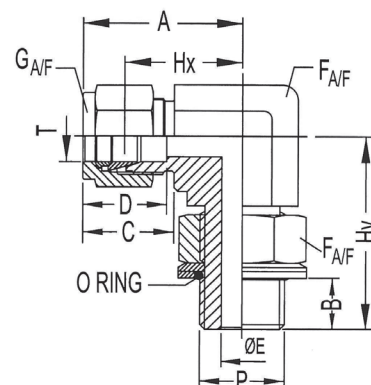
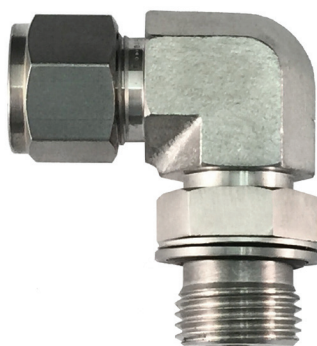
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PART NO.	T Tube OD	P ISO M	Ax mm	B mm	C mm	D mm	E min. mm	F mm	Fx A/F mm	GA/F mm	Hx mm	Hy mm	U mm	O Ring PART NO.	Material
N6801-10-10-NWO-SS	5/8	7/16-14	39.5	14.3	21.7	24.3	12.7	24	25	25.4	29.5	43.4	29.5	4001-10	Stainless
N6801-12-12-NWO-SS	3/4	11/16-12	42.5	16.8	23.0	25.6	15.8	27	32	28.5	31.2	48.8	36.6	4001-12	Stainless
N6801-14-14-NWO-SS	7/8	11/16-12	46.5	16.8	25.2	29.3	18.3	30	32	32	33	50.5	40.4	4001-14	Stainless
N6801-16-16-NWO-SS	1	15/16-12	52.1	16.8	28.0	32.8	22.3	36	36	38	38.4	53.6	44.0	4001-16	Stainless
N6801-20-20-NWO-SS	1-1/4	1-5/8-12	66.7	16.8	39.0	41.8	27.6	46	50	50	45.7	58.2	54.9	4001-20	Stainless
N6801-24-24-NWO-SS	1-1/2	1-7/8-12	79.0	16.8	46.2	51.0	34.0	50	55	57	50.8	60.4	62.5	4001-24	Stainless



N6802 IN-MAORB 45 ELBOW

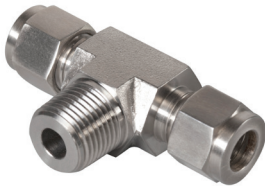
PART NO.	T Tube OD	P SAE/MS M	A mm	B mm	C mm	D mm	E min. mm	F mm	Fx A/F mm	GA/F mm	Hx A/F mm	Hy mm	U mm	O Ring PART NO.	Material
N6802-04-04-NWO-SS	1/4	7/16-20	25.7	9.9	17.8	15.4	4.8	14.3	14.3	14.3	18.3	25.6	16.5	4001-04	Stainless
N6802-06-06-NWO-SS	3/8	9/16-18	28.9	11.2	20.3	17.8	7.1	16	17.4	17.4	20.6	28.2	20.0	4001-06	Stainless
N6802-08-08-NWO-SS	1/2	3/4-16	30.4	12.7	21.8	22.8	10.4	22.2	22.2	22.2	20.3	30.8	25.7	4001-08	Stainless
N6802-12-12-NWO-SS	3/4	11/16-12	39.5	16.8	23.0	25.6	15.8	27	32	28.5	28.2	45.8	36.6	4001-12	Stainless
N6802-16-16-NWO-SS	1	15/16-12	49.0	16.8	28.0	32.8	19.8	36	38	38	35.3	50.6	44.0	4001-16	Stainless



N7202 IN-MBSPP 90 ELBOW

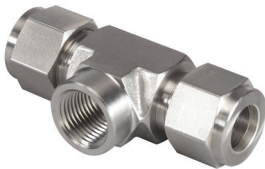
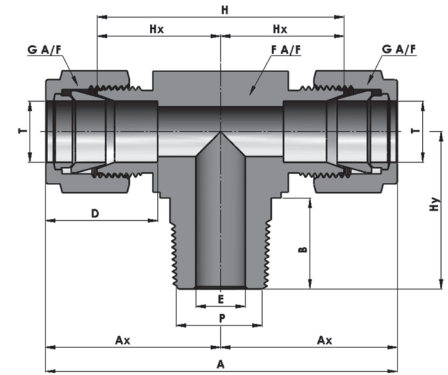
PART NO.	T Tube OD	P ISO M	A mm	B mm	C mm	D mm	E min. mm	F mm	Fx A/F mm	GA/F mm	Hx mm	Hy mm	U mm	O Ring PART NO.	Material
N7202-04-02-NWO-SS	1/4	1/8	1.06	0.32	0.70	0.61	0.17	0.56	0.56	0.56	0.77	1.02	0.68	9300-02	Stainless
N7202-04-04-SS	1/4	1/4	1.14	0.36	0.70	0.61	0.19	0.63	0.75	0.56	0.85	1.26	0.9	9300-04	Stainless
N7202-06-04-NWO-SS	3/8	1/4	1.29	0.36	0.80	0.70	0.28	0.63	0.75	0.67	0.97	1.26	0.9	9300-04	Stainless
N7202-06-06-SS	3/8	3/8	1.35	0.36	0.80	0.70	0.28	0.87	0.87	0.67	1.02	1.38	1.04	9300-06	Stainless
N7202-08-04-NWO-SS	1/2	1/4	1.42	0.36	0.86	0.90	0.30	0.87	0.75	0.87	1.02	1.42	0.9	9300-04	Stainless
N7202-08-06-NWO-SS	1/2	3/8	1.42	0.37	0.86	0.90	0.39	0.87	0.87	0.87	1.02	1.42	1.04	9300-06	Stainless
N7202-08-08-NWO-SS	1/2	1/2	1.42	0.51	0.86	0.90	0.41	0.94	1.06	0.87	1.02	1.67	1.26	9300-08	Stainless
N7202-10-08-NWO-SS	5/8	1/2	1.49	0.51	0.85	0.96	0.48	0.94	1.06	1.00	1.10	1.69	1.26	9300-08	Stainless
N7202-12-08-NWO-SS	3/4	1/2	1.61	0.51	0.91	1.01	0.62	1.06	1.06	1.12	1.17	1.81	1.26	9300-08	Stainless
N7202-12-12-NWO-SS	3/4	3/4	1.61	0.51	0.91	1.01	0.61	1.06	1.42	1.12	1.17	1.81	1.62	9300-12	Stainless
N7202-16-12-NWO-SS	1	3/4	1.99	0.51	1.10	1.29	0.61	1.42	1.42	1.50	1.45	2.03	1.62	9300-12	Stainless
N7202-16-16-NWO-SS	1	1	1.99	0.55	1.10	1.29	0.85	1.42	1.61	1.50	1.45	2.03	1.91	9300-16	Stainless

TEES & CROSSES



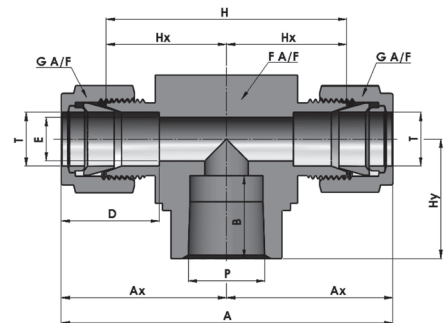
N2601 IN-IN-MNPT TEE

PART NO.	T Tube OD	P NPT M	A mm	Ax mm	B mm	C mm	D mm	E min. mm	F mm	GA/F mm	HA/F mm	Hx mm	Hy mm	Material
N2601-02-02-02-SS	1/8	1/8	47.7	23.9	9.6	15.6	13.2	2.4	11	11	34.0	17.0	17.8	Stainless
N2601-02-02-04-SS	1/8	1/4	49.7	24.9	14.3	15.6	13.2	2.4	14.3	11	36.0	18.0	23.4	Stainless
N2601-04-04-02-SS	1/4	1/8	53.9	27.0	9.6	17.8	15.4	4.8	14.3	14.3	39.2	19.6	18.8	Stainless
N2601-04-04-04-SS	1/4	1/4	53.9	27.0	14.3	17.8	15.4	4.8	14.3	14.3	39.2	19.6	23.4	Stainless
N2601-04-04-06-SS	1/4	3/8	59.5	29.8	14.3	17.8	15.4	4.8	19.0	14.3	44.8	22.4	26.2	Stainless
N2601-04-04-08-SS	1/4	1/2	63.5	31.8	19.1	17.8	15.4	4.8	22.2	14.3	48.8	24.4	33.0	Stainless
N2601-06-06-04-SS	3/8	1/4	62.7	31.4	14.3	20.3	17.8	7.1	17.4	17.4	46.2	23.1	25.4	Stainless
N2601-06-06-06-SS	3/8	3/8	64.3	32.2	14.3	20.3	17.8	7.1	19.0	17.4	47.8	23.9	26.2	Stainless
N2601-06-06-08-SS	3/8	1/2	68.3	34.2	19.1	20.3	17.8	7.1	22.2	17.4	51.8	25.9	33.0	Stainless
N2601-08-08-04-SS	1/2	1/4	71.9	36.0	14.3	21.8	22.8	4.8	22.2	22.2	51.8	25.9	33.0	Stainless
N2601-08-08-06-SS	1/2	3/8	71.9	36.0	14.3	21.8	22.8	9.6	22.2	22.2	51.8	25.9	28.2	Stainless
N2601-08-08-08-SS	1/2	1/2	71.9	36.0	19.1	21.8	22.8	10.4	22.2	22.2	51.8	25.9	33.0	Stainless
N2601-10-10-08-SS	5/8	1/2	75.8	37.9	19.1	21.7	24.3	11.9	24.0	25.4	55.8	27.9	35.0	Stainless
N2601-12-12-08-SS	3/4	1/2	82.0	41.0	19.1	23.0	25.6	11.9	27	28.5	59.4	29.7	36.8	Stainless
N2601-12-12-12-SS	3/4	3/4	82.0	41.0	19.1	23.0	25.6	15.8	27	28.5	59.4	29.7	36.8	Stainless
N2601-16-16-12-SS	1	3/4	101.0	50.5	19.1	28.0	32.8	15.8	36	38	73.6	36.8	41.6	Stainless
N2601-16-16-16-SS	1	1	101.0	50.5	23.9	28.0	32.8	22.3	36	38	73.6	36.8	46.5	Stainless
N2601-20-20-20-SS	1-1/4	1-1/4	131.0	65.5	23.9	39.0	41.8	27.6	46	50	89.0	44.5	47.6	Stainless
N2601-24-24-24-SS	1-1/2	1-1/2	158.1	79.0	26.2	46.2	51.0	34.0	55	57	101.6	50.8	60.4	Stainless



N2602 IN-IN-FNPT TEE

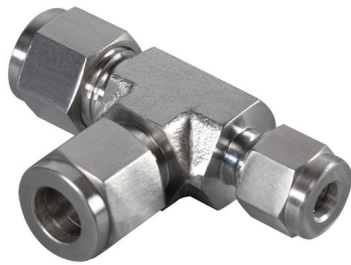
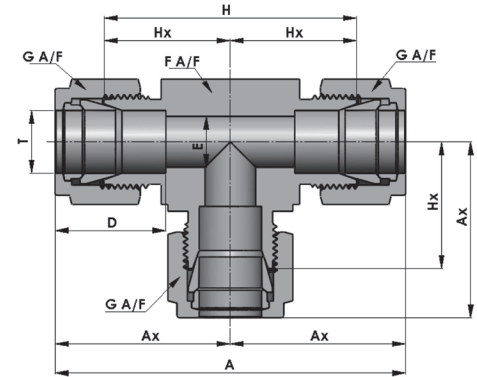
PART NO.	T Tube OD	P NPT F	A mm	Ax mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Hy mm	Material
N2602-02-02-02-SS	1/8	1/8	49.7	24.9	10.4	15.6	13.2	2.4	14.3	11	36.0	18.0	19.0	Stainless
N2602-04-04-02-SS	1/4	1/8	53.9	27.0	10.4	17.8	15.4	4.8	14.3	14.3	39.2	19.6	19.0	Stainless
N2602-04-04-04-SS	1/4	1/4	59.5	29.8	15.0	17.8	15.4	4.8	19.0	14.3	44.8	22.4	22.4	Stainless
N2602-06-06-04-SS	3/8	1/4	64.3	32.2	15.0	20.3	17.8	7.1	19.0	17.4	47.8	23.9	22.4	Stainless
N2602-06-06-06-SS	3/8	3/8	68.3	34.2	15.0	20.3	17.8	7.1	22.2	17.4	51.8	25.9	22.4	Stainless
N2602-08-08-04-SS	1/2	1/4	71.9	36.0	15.0	21.8	22.8	10.4	20.6	22.2	51.8	25.9	22.4	Stainless
N2602-08-08-06-SS	1/2	3/8	71.9	36.0	15.0	21.8	22.8	10.4	22.2	22.2	51.8	25.9	22.4	Stainless
N2602-08-08-08-SS	1/2	1/2	77.5	38.8	19.8	21.8	22.8	10.4	27	22.2	57.4	28.7	28.5	Stainless
N2602-12-12-12-SS	3/4	3/4	91.8	45.9	20.6	23.0	25.6	15.8	36	28.5	69.2	34.6	31.8	Stainless
N2602-16-16-12-SS	1	3/4	101.0	50.5	20.6	28.0	32.8	22.3	36	38	73.6	36.8	31.8	Stainless
N2602-16-16-16-SS	1	1	110.2	55.1	25.4	28.0	32.8	22.3	41	38	82.8	41.4	38.1	Stainless





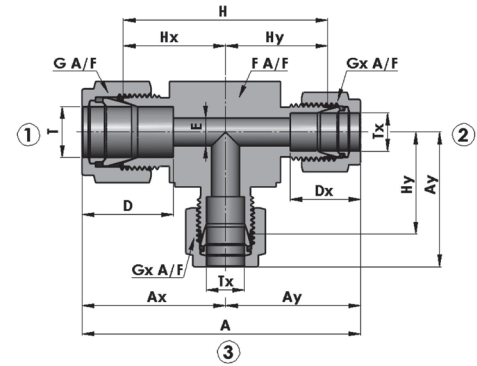
N2603 IN-IN-IN TEE

PART NO.	T Tube OD	A mm	Ax mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Material
N2603-02-02-02-SS	1/8	45.3	22.7	15.6	13.2	2.4	11	11	31.6	15.8	Stainless
N2603-04-04-04-SS	1/4	53.9	27.0	17.8	15.4	4.8	14.3	14.3	39.2	19.6	Stainless
N2603-05-05-05-SS	5/16	56.7	28.4	18.5	16.8	6.3	14.3	16	40.8	20.4	Stainless
N2603-06-06-06-SS	3/8	62.9	31.5	20.3	17.8	7.1	17.4	17.4	46.4	23.2	Stainless
N2603-08-08-08-SS	1/2	71.9	36.0	21.8	22.8	10.4	20.6	22.2	51.8	25.9	Stainless
N2603-10-10-10-SS	5/8	75.8	37.9	21.7	24.3	12.7	24	25.4	55.8	27.9	Stainless
N2603-12-12-12-SS	3/4	82.0	41.0	23.0	25.6	15.8	27	28.5	59.4	29.7	Stainless
N2603-14-14-14-SS	7/8	96.3	48.1	25.2	29.3	18.2	36	32	69.2	34.6	Stainless
N2603-16-16-16-SS	1	101.0	50.5	28.0	32.8	22.3	36	38	73.6	36.8	Stainless
N2603-20-20-20-SS	1-1/4	131.0	65.5	39.0	41.8	27.6	46	50	89.0	44.5	Stainless
N2603-24-24-24-SS	1-1/2	158.1	79.0	46.2	51.0	34.0	55	57	101.6	50.8	Stainless
N2603-32-32-32-SS	2	214.4	107.4	62.7	67.9	46.0	70	76	139.8	69.9	Stainless



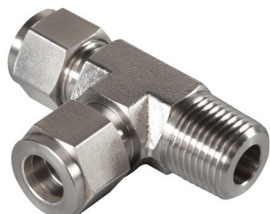
N2603RU IN-IN-IN TEE

PART NO.	T Tube OD	Tx Tube OD	A mm	Ax mm	Ay mm	C mm	Cx mm	D mm	Dx mm	E min. mm	FA/F mm	GA/F mm	Gx A/F mm	H mm	Hx mm	Hy mm	Material
N2603-06-04-04-SS	3/8	1/4	60.2	31.4	28.9	20.3	17.8	17.8	15.4	4.8	17.4	17.4	14.3	44.6	23.1	21.5	Stainless
N2603-06-04-06-SS	3/8	1/4	60.2	31.4	28.9	20.3	17.8	17.8	15.4	4.8	17.4	17.4	14.3	44.6	23.1	21.5	Stainless
N2603-06-06-04-SS	3/8	1/4	62.7	31.4	28.9	20.3	17.8	17.8	15.4	4.8	17.4	17.4	14.3	46.2	23.1	21.5	Stainless
N2603-08-04-04-SS	1/2	1/4	67.7	36.0	31.8	21.8	17.8	22.8	15.4	4.8	20.6	22.2	14.3	50.3	25.9	24.4	Stainless
N2603-08-04-08-SS	1/2	1/4	67.7	36.0	31.8	21.8	17.8	22.8	15.4	4.8	20.6	22.2	14.3	50.3	25.9	24.4	Stainless
N2603-08-06-06-SS	1/2	3/8	70.1	36.0	34.2	21.8	20.3	22.8	17.8	7.1	20.6	22.2	17.4	51.8	25.9	25.9	Stainless
N2603-08-06-08-SS	1/2	3/8	68.1	35.0	33.2	21.8	20.3	22.8	17.8	7.1	20.6	22.2	17.4	49.8	24.9	24.9	Stainless
N2603-08-08-04-SS	1/2	1/4	71.9	36.0	31.8	21.8	17.8	22.8	15.4	4.8	20.6	22.2	14.3	51.8	25.9	24.4	Stainless
N2603-08-08-06-SS	1/2	3/8	71.9	36.0	34.2	21.8	20.3	22.8	17.8	7.1	20.6	22.2	17.4	51.8	25.9	25.9	Stainless
N2603-12-06-06-SS	3/4	3/8	79.0	41.0	38.0	23.0	20.3	25.6	17.8	7.1	27	28.5	17.4	59.4	29.7	29.7	Stainless
N2603-12-06-12-SS	3/4	3/8	79.0	41.0	38.0	23.0	20.3	25.6	17.8	7.1	27	28.5	17.4	59.4	29.7	29.7	Stainless
N2603-12-08-08-SS	3/4	1/2	80.8	41.0	39.8	23.0	21.8	25.6	22.8	10.4	27	28.5	22.2	59.4	29.7	29.7	Stainless
N2603-12-08-12-SS	3/4	1/2	80.8	41.0	39.8	23.0	21.8	25.6	22.8	10.4	27	28.5	22.2	59.4	29.7	29.7	Stainless
N2603-12-12-06-SS	3/4	3/8	82.0	41.0	38.0	23.0	20.3	25.6	17.8	7.1	27	28.5	17.4	59.4	29.7	29.7	Stainless
N2603-12-12-08-SS	3/4	1/2	82.0	41.0	39.8	23.0	21.8	25.6	22.8	10.4	27	28.5	22.2	59.4	29.7	29.7	Stainless
N2603-16-06-06-SS	1	3/8	93.3	50.5	42.8	28.0	19.3	32.8	17.8	7.1	36	38	17.4	71.3	36.8	34.5	Stainless
N2603-16-06-16-SS	1	3/8	93.3	50.5	42.8	28.0	19.3	32.8	16.8	7.1	36	38	17.4	71.3	36.8	34.5	Stainless
N2603-16-08-08-SS	1	1/2	95.1	50.5	44.6	28.0	21.8	32.8	22.8	10.4	36	38	22.2	71.3	36.8	34.5	Stainless
N2603-16-08-16-SS	1	1/2	95.1	50.5	44.6	28.0	21.8	32.8	22.8	10.4	36	38	22.2	71.3	36.8	34.5	Stainless
N2603-16-12-12-SS	1	3/4	96.3	50.5	45.8	28.0	23.0	32.8	25.6	15.8	36	38	28.5	71.3	36.8	34.5	Stainless
N2603-16-12-16-SS	1	3/4	96.3	50.5	45.8	28.0	23.0	32.8	25.6	15.8	36	38	28.5	71.3	36.8	34.5	Stainless
N2603-16-16-06-SS	1	3/8	101.0	50.5	42.9	28.0	20.3	32.8	16.8	7.1	36	38	17.4	73.6	36.8	34.6	Stainless
N2603-16-16-08-SS	1	1/2	96.6	48.3	44.7	28.0	21.8	32.8	21.8	10.4	36	38	22.2	69.2	34.6	34.6	Stainless
N2603-16-16-12-SS	1	3/4	101.0	50.5	45.8	28.0	23.0	32.8	25.6	15.8	36	38	28.5	73.6	36.8	34.5	Stainless
N2603-20-16-16-SS	1-1/4	1	123.3	66.7	56.6	39.0	28.0	41.8	32.8	22.3	46	50	38	88.6	45.7	42.9	Stainless
N2603-20-16-20-SS	1-1/4	1	121.2	66.7	54.5	39.0	28.0	41.8	32.8	22.3	46	50	38	86.5	45.7	40.8	Stainless



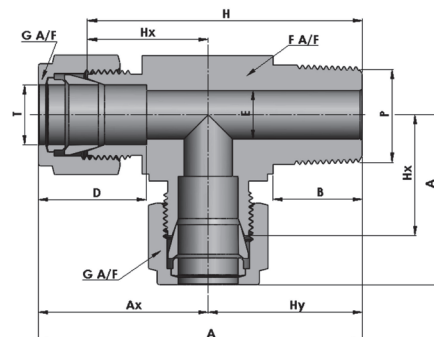
Continued...

PART NO.	T Tube OD	Tx Tube OD	A mm	Ax mm	Ay mm	C mm	Cx mm	D mm	Dx mm	E min. mm	FA/F mm	GA/F mm	Gx A/F mm	H mm	Hx mm	Hy mm	Material
N2603-20-20-16-SS	1-1/4	1	133.4	66.7	56.6	39.0	28.0	41.8	32.8	22.3	46	50	38	91.4	45.7	42.9	Stainless
N2603-24-16-16-SS	1-1/2	1	141.3	79.8	61.5	46.2	28.0	51.0	32.8	22.3	55	57	38	99.4	51.6	47.8	Stainless
N2603-24-24-16-SS	1-1/2	1	159.7	79.8	61.5	46.2	28.0	51.0	32.8	22.3	55	57	38	103.2	51.6	47.8	Stainless



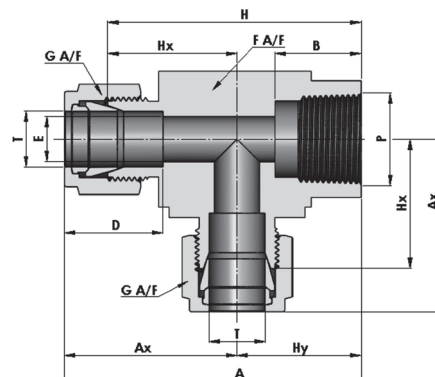
N2605 IN-MNPT-IN TEE

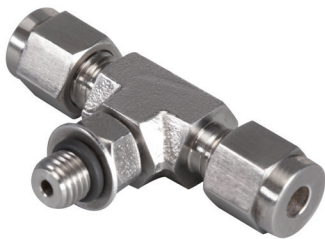
PART NO.	T Tube OD	P NPT M	A mm	Ax mm	B mm	C mm	D mm	E min. mm	F mm	GA/F mm	HA/F mm	Hx mm	Hy mm	Material
N2605-02-02-02-SS	1/8	1/8	41.7	23.9	9.6	15.6	13.2	2.4	11	11	34.8	17.0	17.8	Stainless
N2605-02-04-02-SS	1/8	1/4	48.3	24.9	14.3	15.6	13.2	2.4	14.3	11	41.4	18.0	23.4	Stainless
N2605-04-02-04-SS	1/4	1/8	45.8	27.0	9.6	17.8	15.4	4.8	14.3	14.3	38.4	19.6	18.8	Stainless
N2605-04-04-04-SS	1/4	1/4	50.4	27.0	14.3	17.8	15.4	4.8	14.3	14.3	43	19.6	23.4	Stainless
N2605-04-06-04-SS	1/4	3/8	56.0	29.8	14.3	17.8	15.4	4.8	19.0	14.3	48.6	22.4	26.2	Stainless
N2605-04-08-04-SS	1/4	1/2	64.8	31.8	19.1	17.8	15.4	4.8	22.2	14.3	57.4	24.4	33.0	Stainless
N2605-06-04-06-SS	3/8	1/4	56.8	31.4	14.3	20.3	17.8	7.1	17.4	17.4	48.5	23.1	25.4	Stainless
N2605-06-06-06-SS	3/8	3/8	58.4	32.2	14.3	20.3	17.8	7.1	19.0	17.4	50.1	23.9	26.2	Stainless
N2605-06-08-06-SS	3/8	1/2	67.2	34.2	19.1	20.3	17.8	7.1	22.2	17.4	58.9	25.9	33.0	Stainless
N2605-08-04-08-SS	1/2	1/4	64.2	36.0	14.3	21.8	22.8	4.8	22.2	22.2	54.1	25.9	28.2	Stainless
N2605-08-06-08-SS	1/2	3/8	64.2	36.0	14.3	21.8	22.8	9.6	22.2	22.2	54.1	25.9	28.2	Stainless
N2605-08-08-08-SS	1/2	1/2	69.0	36.0	19.1	21.8	2.2.8	10.4	22.2	22.2	58.9	25.9	33.0	Stainless
N2605-10-08-10-SS	5/8	1/2	72.9	37.9	19.1	21.7	24.3	11.9	24.0	25.4	62.9	27.9	35.0	Stainless
N2605-12-08-12-SS	3/4	1/2	77.8	41.0	19.1	23.0	25.6	11.9	27	28.5	66.5	29.7	36.8	Stainless
N2605-12-12-12-SS	3/4	3/4	77.8	41.0	19.1	23.0	25.6	15.8	27	28.5	66.5	29.7	36.8	Stainless
N2605-16-12-16-SS	1	3/4	92.1	50.5	19.1	28.0	32.8	15.8	36	38	78.4	36.8	41.6	Stainless
N2605-16-16-16-SS	1	1	97.0	50.5	23.9	28.0	32.8	22.3	36	38	83.3	36.8	46.5	Stainless
N2605-20-20-20-SS	1-1/4	1-1/4	113.1	65.5	23.9	39.0	41.8	27.6	46	50	92.1	44.5	47.6	Stainless
N2605-24-24-24-SS	1-1/2	1-1/2	139.4	79.0	26.2	46.2	51.0	34.0	55	57	111.2	50.8	60.4	Stainless



N2606 IN-FNPT-IN TEE

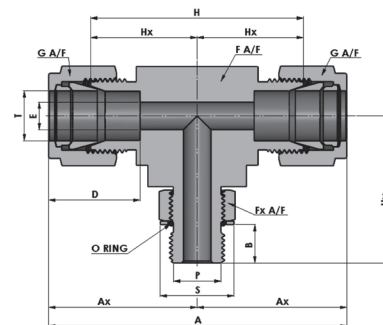
PART NO.	T Tube OD	P NPT F	A mm	Ax mm	B mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Hy mm	Material
N2606-02-02-02-SS	1/8	1/8	43.9	24.9	10.4	15.6	13.2	2.4	14.3	11	37.0	18.0	19.0	Stainless
N2606-04-02-04-SS	1/4	1/8	46.0	27.0	10.4	17.8	15.4	4.8	14.3	14.3	38.6	19.6	19.0	Stainless
N2606-04-04-04-SS	1/4	1/4	52.2	29.8	15.0	17.8	15.4	4.8	19.0	14.3	44.8	22.4	22.4	Stainless
N2606-06-04-06-SS	3/8	1/4	54.6	32.2	15.0	20.3	17.8	7.1	19.0	17.4	46.3	23.9	22.4	Stainless
N2606-06-06-06-SS	3/8	3/8	56.6	34.2	15.0	20.3	17.8	7.1	22.2	17.4	48.3	25.9	22.4	Stainless
N2606-08-06-08-SS	1/2	3/8	58.4	36.0	15.0	21.8	22.8	10.4	22.2	22.2	48.3	25.9	22.4	Stainless
N2606-08-08-08-SS	1/2	1/2	68.3	39.8	19.8	21.8	22.8	10.4	27	22.2	58.2	29.7	28.5	Stainless
N2606-12-12-12-SS	3/4	3/4	77.7	45.9	20.6	23.0	25.6	15.8	36	28.5	66.4	34.6	31.8	Stainless
N2606-16-12-16-SS	1	3/4	82.3	50.5	20.6	23.0	32.8	22.3	36	38	68.6	36.8	31.8	Stainless
N2606-16-16-16-SS	1	1	93.2	55.1	25.4	28.0	32.8	22.3	41	38	79.5	41.4	38.1	Stainless





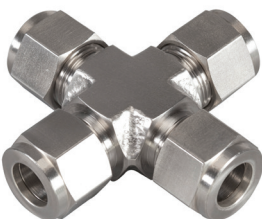
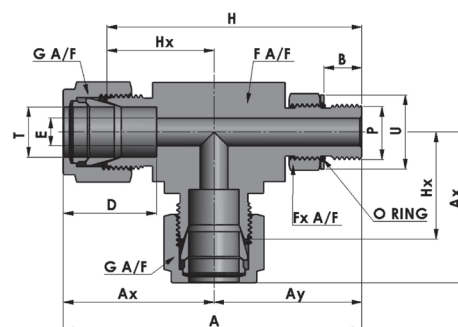
N6803 IN-IN-MAORB TEE

PART NO.	T Tube OD	S SAE/ MS M	A mm	Ax mm	B mm	C mm	D mm	E min. mm	FA/F mm	Fx A/F mm	GA/F mm	H mm	Hx mm	Hy mm	U mm	O Ring PART NO.	Material
N6803-04-04-04-NWO-SS	1/4	7/16-20	56.7	28.4	9.9	17.8	15.4	4.8	14.3	14.3	14.3	42.0	21.0	28.5	16.5	4001-04	Stainless
N6803-06-06-06-NWO-SS	3/8	9/16-18	65.7	32.9	11.2	20.3	17.8	7.1	16	17.4	17.4	49.2	24.6	32.3	20.0	4001-06	Stainless
N6803-08-08-08-NWO-SS	1/2	3/4-16	74.9	37.5	12.7	21.8	22.8	10.4	22.2	22.2	22.2	54.8	27.4	37.8	25.6	4001-08	Stainless
N6803-12-12-12-NWO-SS	3/4	1 1/16-12	85.0	42.5	16.8	23.0	25.6	15.8	27	32	28.5	62.4	31.2	48.8	36.6	4001-12	Stainless
N6803-16-16-16-NWO-SS	1	1 5/16-12	104.2	52.1	16.8	28.0	32.8	22.3	36	36	38	76.8	38.4	53.6	44.0	4001-16	Stainless
N6803-20-20-20-NWO-SS	1-1/4	1-5/8-12	134.0	67.0	16.8	39.0	41.8	27.6	46	50	50	91.4	46	58	55	4001-20	Stainless
N6803-24-24-24-NWO-SS	1-1/2	1-7/8-12	158.5	79.2	16.8	46.2	51.0	34.0	50	55	57	101.6	51	60	63	4001-24	Stainless



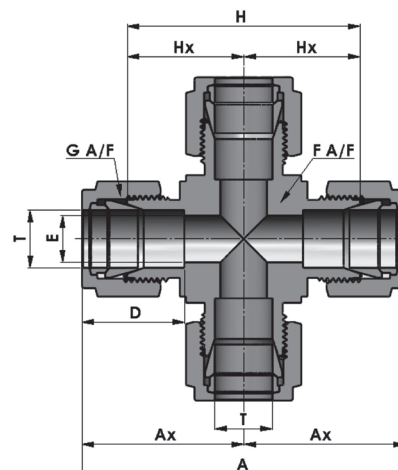
N6804 IN-MAORB-IN TEE

PART NO.	T Tube OD	S SAE/MS M	A mm	Ax mm	B mm	C mm	D mm	E min. mm	FA/F mm	Fx A/F mm	GA/F mm	H mm	Hx mm	Hy mm	U mm	O Ring PART NO.	Material
N6804-04-04-04-NWO-SS	1/4	7/16-20	56.7	28.4	9.9	17.8	15.4	4.8	14	14	14.3	49.5	21.0	28.5	16.5	4001-04	Stainless
N6804-06-06-06-NWO-SS	3/8	9/16-18	65.7	32.9	11.2	20.3	17.8	7.1	16	17	17.4	56.9	24.6	32.3	20.0	4001-06	Stainless
N6804-08-08-08-NWO-SS	1/2	3/4-16	74.9	37.5	12.7	21.8	22.8	10.4	22	22	22.2	65.2	27.4	37.8	25.6	4001-08	Stainless
N6804-12-12-12-NWO-SS	3/4	1 1/16-12	85.0	42.5	16.8	23.0	25.6	15.8	27	32	28.5	80.0	31.2	48.8	36.6	4001-12	Stainless
N6804-16-16-16-NWO-SS	1	1 5/16-12	104.2	52.1	16.8	28.0	32.8	22.3	36	36	38	92.0	38.4	53.6	44.0	4001-16	Stainless
N6804-20-20-20-NWO-SS	1-1/4	1-5/8-12	133.4	66.7	16.8	39.0	41.8	27.6	46	50	50	103.9	45.7	58.2	54.9	4001-20	Stainless
N6804-24-24-24-NWO-SS	1-1/2	1-7/8-12	158.1	79.0	16.8	46.2	51.0	34.0	50	55	57	111.2	50.8	60.4	62.5	4001-24	Stainless

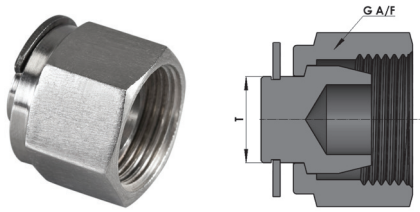


N2650 IN-IN-IN-IN CROSS

PART NO.	T Tube OD	A mm	Ax mm	C mm	D mm	E min. mm	FA/F mm	GA/F mm	H mm	Hx mm	Material
N2650-02-02-02-02-SS	1/8	45.4	22.7	15.6	13.2	2.4	11	11	31.6	15.8	Stainless
N2650-04-04-04-04-SS	1/4	54.0	27.0	17.8	15.4	4.8	14.3	14.3	39.2	19.6	Stainless
N2650-06-06-06-06-SS	3/8	63.0	31.5	20.3	17.8	7.1	17.4	17.4	46.4	23.2	Stainless
N2650-08-08-08-08-SS	1/2	72.0	36.0	21.8	22.8	10.4	20.6	22.2	51.8	25.9	Stainless
N2650-12-12-12-12-SS	3/4	82.0	41.0	23.0	25.6	15.8	27	28.5	59.4	29.7	Stainless
N2650-16-16-16-16-SS	1	101.0	50.5	28.0	32.8	22.3	36	38	73.6	36.8	Stainless



PLUGS, NUTS, FERRULES



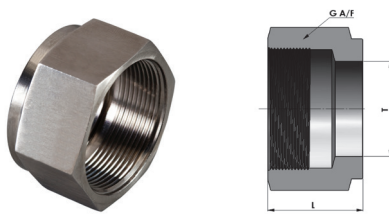
N0304 IN PLUG

PART NO.	T Tube OD	G A/F mm	Material
N0304-01-SS	1/16	8	Stainless
N0304-02-SS	1/8	11	Stainless
N0304-04-SS	1/4	9/16	Stainless
N0304-05-SS	5/16	5/8	Stainless
N0304-06-SS	3/8	11/16	Stainless
N0304-08-SS	1/2	7/8	Stainless
N0304-10-SS	5/8	1	Stainless
N0304-12-SS	3/4	1-1/8	Stainless
N0304-14-SS	7/8	1-1/4	Stainless
N0304-16-SS	1	1-1/2	Stainless
N0304-20-SS	1-1/4	50	Stainless
N0304-24-SS	1-1/2	57	Stainless
N0304-32-SS	2	76	Stainless



N0319-B BACK FERRULE

PART NO.	T Tube OD	Material
N0319-B-01-SS	1/16	Stainless
N0319-B-02-SS	1/8	Stainless
N0319-B-04-SS	1/4	Stainless
N0319-B-05-SS	5/16	Stainless
N0319-B-06-SS	3/8	Stainless
N0319-B-08-SS	1/2	Stainless
N0319-B-10-SS	5/8	Stainless
N0319-B-12-SS	3/4	Stainless
N0319-B-14-SS	7/8	Stainless
N0319-B-16-SS	1	Stainless
N0319-B-20-SS	1-1/4	Stainless
N0319-B-24-SS	1-1/2	Stainless
N0319-B-32-SS	2	Stainless



N0318 IN NUT

PART NO.	T Tube OD	L mm	G A/F mm	Material
N0318-01-SS	1/16	8.5	8	Stainless
N0318-02-SS	1/8	12.0	11	Stainless
N0318-04-SS	1/4	12.7	9/16	Stainless
N0318-05-SS	5/16	13.5	5/8	Stainless
N0318-06-SS	3/8	14.9	11/16	Stainless
N0318-08-SS	1/2	17.5	7/8	Stainless
N0318-10-SS	5/8	17.5	1	Stainless
N0318-12-SS	3/4	18	1-1/8	Stainless
N0318-14-SS	7/8	20.65	1-1/4	Stainless
N0318-16-SS	1	21	1-1/2	Stainless
N0318-20-SS	1-1/4	31.7	50	Stainless
N0318-24-SS	1-1/2	38.2	57	Stainless
N0318-32-SS	2	52.5	76	Stainless



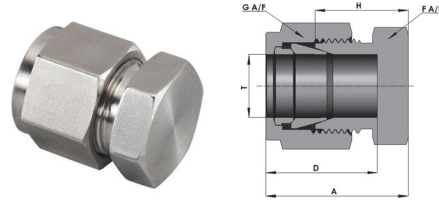
N0319-F FRONT FERRULE

PART NO.	T Tube OD	Material
N0319-F-01-SS	1/16	Stainless
N0319-F-02-SS	1/8	Stainless
N0319-F-04-SS	1/4	Stainless
N0319-F-05-SS	5/16	Stainless
N0319-F-06-SS	3/8	Stainless
N0319-F-08-SS	1/2	Stainless
N0319-F-10-SS	5/8	Stainless
N0319-F-12-SS	3/4	Stainless
N0319-F-14-SS	7/8	Stainless
N0319-F-16-SS	1	Stainless
N0319-F-20-SS	1-1/4	Stainless
N0319-F-24-SS	1-1/2	Stainless
N0319-F-32-SS	2	Stainless



N0319-S FERRULE SET

PART NO.	T Tube OD	Material
N0319-S-01-SS	1/16	Stainless
N0319-S-02-SS	1/8	Stainless
N0319-S-04-SS	1/4	Stainless
N0319-S-05-SS	5/16	Stainless
N0319-S-06-SS	3/8	Stainless
N0319-S-08-SS	1/2	Stainless
N0319-S-10-SS	5/8	Stainless
N0319-S-12-SS	3/4	Stainless
N0319-S-14-SS	7/8	Stainless
N0319-S-16-SS	1	Stainless
N0319-S-20-SS	1-1/4	Stainless
N0319-S-24-SS	1-1/2	Stainless
N0319-S-32-SS	2	Stainless



N2408 IN CAP

PART NO.	T Tube OD	A mm	C mm	D mm	FA/F mm	GA/F mm	H mm	Material
N2408-01-SS	1/16	17.1	13.1	10.7	11	8	11.2	Stainless
N2408-02-SS	1/8	20.4	15.6	13.2	11	11	13.5	Stainless
N2408-04-SS	1/4	23.4	17.8	15.4	12.7	14.3	16.0	Stainless
N2408-05-SS	5/16	25.0	18.5	16.8	14.3	16	17.0	Stainless
N2408-06-SS	3/8	26.6	20.3	17.8	16	17.4	18.3	Stainless
N2408-08-SS	1/2	29.1	21.8	22.8	20.6	22.2	19.0	Stainless
N2408-10-SS	5/8	29.8	21.7	24.3	24	25.4	19.8	Stainless
N2408-12-SS	3/4	32.7	23.0	25.6	27	28.5	21.4	Stainless
N2408-14-SS	7/8	37.4	25.2	29.3	30	32	23.9	Stainless
N2408-16-SS	1	39.9	28.0	32.8	36	38	26.2	Stainless
N2408-20-SS	1-1/4	52.2	39.0	41.8	46	50	31.2	Stainless
N2408-24-SS	1-1/2	65.6	46.2	51.0	55	57	37.4	Stainless
N2408-32-SS	2	88.6	62.7	67.6	70.0	76.0	49.3	Stainless

VALVES

NOTES

Valves are available in double ferrule only, in both stainless and brass. Part numbers in this catalog represent double ferrule stainless fittings. For other options substitute as follows:

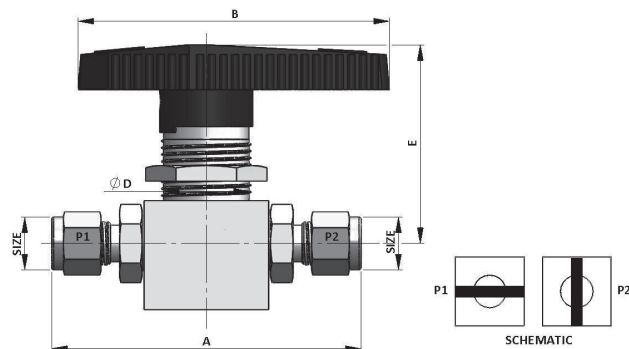
For **brass**, change the “SS” suffix to “B”

NVB-1004-SS becomes NVB-1004-B



NVB-1000 TWO-WAY BALL VALVE

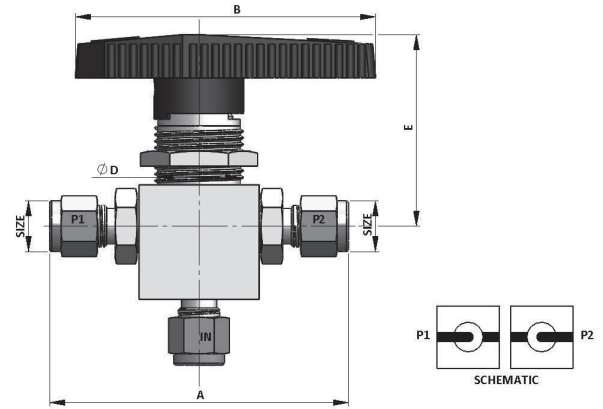
PART NO.	O.A.L. (A)	Handle Length	Panel Thk (c)	Panel Hole Dia.	Height C.L. (E)
NVB-1003-SS	2.49	3.14	0.19	0.964	2.04
NVB-1004-SS	3.14	3.14	0.19	0.964	2.12
NVB-1005-SS	3.14	3.14	0.19	0.964	2.12
NVB-1007-SS	2.55	3.14	0.19	0.964	2.04
NVB-1013-SS	3.24	3.26	0.19	1.200	2.55
NVB-1015-SS	3.66	4.56	0.19	1.437	2.99





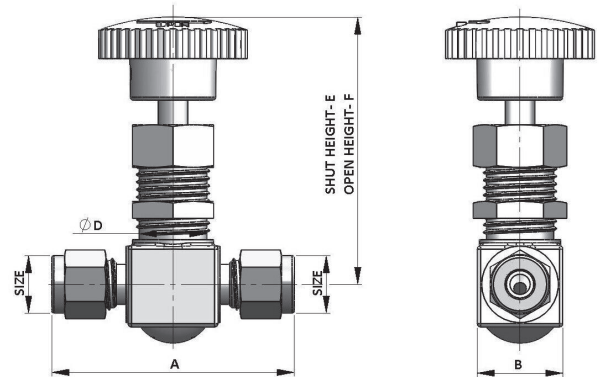
NVB-1100 THREE WAY BALL VALVE

PART NO.	O.A.L. (A)	Handle Length	Panel Thck (c)	Panel Hole Dia.	Height C.L. (E)
NVB-1107-B	2.48	3.26	0.19	1.200	2.63
NVB-1107-SS	2.48	3.26	0.19	1.200	2.63
NVB-1109-B	3.81	3.26	0.19	1.200	2.55
NVB-1109-SS	3.81	3.26	0.19	1.200	2.55
NVB-1110-B	3.26	3.26	0.19	1.200	2.63
NVB-1110-SS	3.26	3.26	0.19	1.200	2.63
NVB-1111-B	4.13	4.56	0.19	1.437	2.99
NVB-1111-SS	4.13	4.56	0.19	1.437	2.99
NVB-1112-B	3.66	4.56	0.19	1.437	2.99
NVB-1112-SS	3.66	4.56	0.19	1.437	2.99



NVN NEEDLE VALVE

PART NO.	O.A.L. (A)	Width (B)	Panel Thck (C)	Panel Hole Dia	Open Height C.L.
NVN-2001-SS	2.08	0.78	0.19	0.649	2.55
NVN-2002-SS	1.77	0.78	0.19	0.649	2.91
NVN-2003-SS	1.77	0.78	0.19	0.649	2.91
NVN-2007-SS	2.28	0.78	0.19	0.649	2.55
NVN-2008-SS	1.77	0.78	0.19	0.649	3.30
NVN-2009-SS	1.96	0.78	0.19	0.649	2.55
NVN-2010-SS	2.12	0.78	0.19	0.649	2.55
NVN-2013-SS	3.07	1.22	0.19	0.767	3.34
NVN-2018-SS	3.46	1.22	0.19	0.767	3.34
NVN-2031-SS	1.96	0.78	0.19	0.649	2.55
NVN-2032-SS	2.28	0.78	0.19	0.649	2.55
NVN-2033-SS	1.77	0.78	0.19	0.649	3.30
NVN-2035-SS	3.07	1.22	0.19	0.767	3.34
NVN-2037-SS	2.12	1.22	0.19	0.767	3.34
NVN-2038-SS	3.46	1.22	0.19	0.767	3.34
NVN-2039-SS	3.14	1.41	0.19	0.885	3.3
NVN-2040-SS	2.51	1.41	0.19	0.885	3.3
NVN-2204-SS	2.66	0.98	0.19	0.885	3.34
NVN-2207-SS	2.57	0.98	0.19	0.885	3.34



TUBING SELECTION

Proper selection, handling, cutting, cleaning and installation of tubing is essential to leak free systems. The tubing surface is to be smooth and free from any scratches, axial or circumferential, which will allow leakage paths along the joints.

TUBING HARDNESS

Tubing must always be softer than the fitting material. Using the suggested hardness explained below will ensure perfectly sealing joints. Brennan instrumentation fittings have been tested successfully on tubing with hardness up to RB 90, the maximum allowable under ASTM A213 and ASTM A269. Although use of tubing this hard is permissible, and Brennan fittings will perform satisfactorily on such tubing, a hardness of between 70-74 RB is optimum. Tubing in this range also lowers installation time, difficulty and cost due to greater ease of bending. It is suggested customers use tubing with a hardness not exceeding a maximum of RB 80.

TUBING THICKNESS

The allowable pressure ratings of tubing for the wide range of wall thicknesses are calculated from values as specified by ANSO Code B 31.1. The range of tubing wall thicknesses vary from .010" to .109". These wall thicknesses are generally preferred for tube sizes up to 1". For higher tube sizes, this range may be increased to .120" and .160".

Tubing with significantly higher wall thickness is generally not recommended as it may lead to lower of performance and higher torque requirements to create the joint. Tubing with significantly lower wall thicknesses is also not recommended as there is possibility of collapse of the tube.

WORKING PRESSURE TABLE

Tube OD IN	0.01	0.012	0.016	0.002	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.12	0.134	0.156
1/16	5,587	6,861	9,593	12,185										
1/8					8,565	10,829								
3/16					5,474	7,039	10,116							
1/4					4,020	5,132	7,500	10,135						
5/16						4,037	5,848	8,071						
3/8						3,326	4,791	6,566						
1/2						2,611	3,741	5,092	6,696					
5/8							2,951	3,998	5,225	6,075				
3/4							2,436	3,289	4,283	4,966	5,785			
7/8							2,073	2,793	3,628	4,199	4,881			
1							1,804	2,427	3,146	3,637	4,220	4,688		
1-1/4									2,485	2,867	3,321	3,682	4,149	4,900
1-1/2									2,046	2,358	2,726	3,020	3,398	4,003

The allowable working pressures for 304 stainless steel and 316 stainless steel seamless tubing to ASTM A269, ASTM/ASME A213 or equivalent based on the following data: Temperature: -20°F to 100°F. Ultimate tensile strength: 75,000 psi; allowable stress: 20,000 psi as specified by ASME B31.3-2002.

TUBING

Brennan offers a full selection of stainless seamless tubing in a wide range of wall thickness and sizes. Brennan tubing is available in both 304 and 316 stainless steel and comes in 20 foot increments. **All tubing is ASTM certified and accompanied by Mill Test Reports (MTRs).



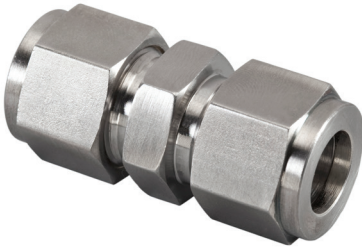
Part Number	Diameter	Wall	Stainless
NTS-01X.01-304-SS	1/16	.010	304
NTS-01X.01-316-SS	1/16	.010	316
NTS-02X.028-304-SS	1/8	.028	304
NTS-02X.028-316-SS	1/8	.028	316
NTS-02X.035-304-SS	1/8	.035	304
NTS-02X.035-316-SS	1/8	.035	316
NTS-03X.028-304-SS	3/16	.028	304
NTS-03X.028-316-SS	3/16	.028	316
NTS-04X.035-304-SS	1/4	.035	304
NTS-04X.035-316-SS	1/4	.035	316
NTS-04X.049-304-SS	1/4	.049	304
NTS-04X.049-316-SS	1/4	.049	316
NTS-04X.065-304-SS	1/4	.065	304
NTS-04X.065-316-SS	1/4	.065	316
NTS-06X.035-304-SS	3/8	.035	304
NTS-06X.035-316-SS	3/8	.035	316
NTS-06X.049-304-SS	3/8	.049	304
NTS-06X.049-316-SS	3/8	.049	316
NTS-06X.065-304-SS	3/8	.065	304
NTS-06X.065-316-SS	3/8	.065	316
NTS-08X.035-304-SS	1/2	.035	304
NTS-08X.035-316-SS	1/2	.035	316
NTS-08X.049-304-SS	1/2	.049	304
NTS-08X.049-316-SS	1/2	.049	316
NTS-08X.065-304-SS	1/2	.065	304
NTS-08X.065-316-SS	1/2	.065	316
NTS-08X.083-304-SS	1/2	.083	304
NTS-08X.083-316-SS	1/2	.083	316
NTS-10X.049-304-SS	5/8	.049	304
NTS-10X.049-316-SS	5/8	.049	316
NTS-10X.065-304-SS	5/8	.065	304

Part Number	Diameter	Wall	Stainless
NTS-10X.065-316-SS	5/8	.065	316
NTS-10X.083-304-SS	5/8	.083	304
NTS-10X.083-316-SS	5/8	.083	316
NTS-10X.095-304-SS	5/8	.095	304
NTS-10X.095-316-SS	5/8	.095	316
NTS-12X.049-304-SS	3/4	.049	304
NTS-12X.049-316-SS	3/4	.049	316
NTS-12X.065-304-SS	3/4	.065	304
NTS-12X.065-316-SS	3/4	.065	316
NTS-12X.083-304-SS	3/4	.083	304
NTS-12X.083-316-SS	3/4	.083	316
NTS-12X.095-304-SS	3/4	.095	304
NTS-12X.095-316-SS	3/4	.095	316
NTS-12X.109-304-SS	3/4	.109	304
NTS-12X.109-316-SS	3/4	.109	316
NTS-14X.049-304-SS	7/8	.049	304
NTS-14X.049-316-SS	7/8	.049	316
NTS-14X.065-304-SS	7/8	.065	304
NTS-14X.065-316-SS	7/8	.065	316
NTS-14X.083-304-SS	7/8	.083	304
NTS-14X.083-316-SS	7/8	.083	316
NTS-14X.095-304-SS	7/8	.095	304
NTS-14X.095-316-SS	7/8	.095	316
NTS-14X.109-304-SS	7/8	.109	304
NTS-14X.109-316-SS	7/8	.109	316
NTS-16X.049-304-SS	1	.049	304
NTS-16X.049-316-SS	1	.049	316
NTS-16X.065-304-SS	1	.065	304
NTS-16X.065-316-SS	1	.065	316
NTS-16X.083-304-SS	1	.083	304
NTS-16X.083-316-SS	1	.083	316

Part Number	Diameter	Wall	Stainless
NTS-16X.095-304-SS	1	.095	304
NTS-16X.095-316-SS	1	.095	316
NTS-16X.109-304-SS	1	.109	304
NTS-16X.109-316-SS	1	.109	316
NTS-16X.120-304-SS	1	.120	304
NTS-16X.120-316-SS	1	.120	316
NTS-20X.083-304-SS	1 1/4	.083	304
NTS-20X.083-316-SS	1 1/4	.083	316
NTS-20X.095-304-SS	1 1/4	.095	304
NTS-20X.095-316-SS	1 1/4	.095	316
NTS-20X.109-304-SS	1 1/4	.109	304
NTS-20X.109-316-SS	1 1/4	.109	316
NTS-20X.120-304-SS	1 1/4	.120	304
NTS-20X.120-316-SS	1 1/4	.120	316
NTS-20X.134-304-SS	1 1/4	.134	304
NTS-20X.134-316-SS	1 1/4	.134	316
NTS-20X.156-304-SS	1 1/4	.156	304
NTS-20X.156-316-SS	1 1/4	.156	316
NTS-24X.083-304-SS	1 1/2	.083	304
NTS-24X.083-316-SS	1 1/2	.083	316
NTS-24X.095-304-SS	1 1/2	.095	304
NTS-24X.095-316-SS	1 1/2	.095	316
NTS-24X.109-304-SS	1 1/2	.109	304
NTS-24X.109-316-SS	1 1/2	.109	316
NTS-24X.120-304-SS	1 1/2	.120	304
NTS-24X.120-316-SS	1 1/2	.120	316
NTS-24X.134-304-SS	1 1/2	.134	304
NTS-24X.134-316-SS	1 1/2	.134	316
NTS-24X.156-304-SS	1 1/2	.156	304
NTS-24X.156-316-SS	1 1/2	.156	316

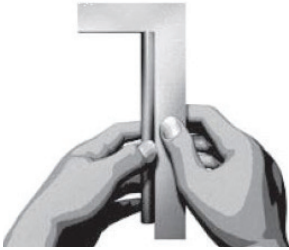
*Welded tubing is also available for purchase. ** A handling/cutting charge may be applied for tubing lengths less than 20 feet.

ASSEMBLY



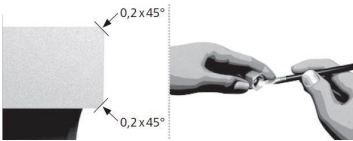
Brennan's Instrumentation Tube Fittings are shipped completely assembled, finger-tight. They are ready for immediate use. Dis-assembly before use can result in dirt or foreign material getting into the fitting and causing leaks.

PREPARATION



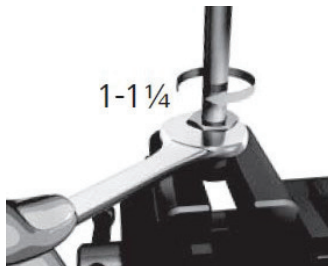
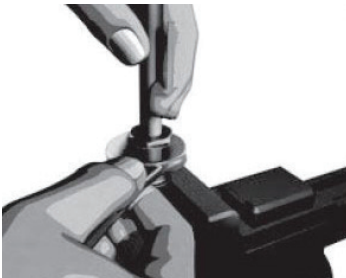
Tube end must be cut squarely and cleanly, must not be scratched, bent or have any other defect. Improper tubing preparation is the #1 source of leakage.

Lightly debur the tube ends and clean the tube thoroughly. The tube end within the assembly length must be free from debris: metal chips or shavings, dirt, paint, etc.



ASSEMBLY

Insert the tubing into the fitting. Make sure that the tubing rests firmly on the shoulders of the fitting and turn the nut snug tight (the point where you can no longer rotate the tube by hand in the fitting).



Scribe a reference line across the nut and fitting body to use as a reference. While holding the body steady, tighten the nut one and one quarter turn. Watch the scribe mark, make one complete revolution plus an additional 90 degrees. For 1/8", 3/16", 3 & 4 mm size fittings, only three-quarters turn from snug is necessary.

REMAKE

Fittings can be disconnected and reconnected multiple times following the same instructions above for a leak proof seal.



**Contact a Brennan representative to
learn more: (888) 331-1523**

CROSS REFERENCE

COMPETITOR #	BRENNAN #	SERIES	PAGE	COMPETITOR #	BRENNAN #	SERIES	PAGE	COMPETITOR #	BRENNAN #	SERIES	PAGE
SS-10-TA-1-8	N2428-10-08-SS	N2428	8	SS-1210-1-12RP	N7013-12-12-SS	N7013	16	SS-1210-R-8	N2406-12-08-SS	N2406	6
SS-10-TA7-8	N2430-10-08-SS	N2430	9	SS-1210-1-12RS	N7002-12-12-SS	N7002	15	SS-1211-PC	N2440-12-12-SS	N2440	10
SS-100 SET	N0319-S-01-SS	N0319-S	26	SS-1210-1-12RT	N7000-12-12-SS	N7000	15	SS-1211-PC-8	N2440-12-08-SS	N2440RU	11
SS-100-1-1	N2404-01-01-SS	N2404	4	SS-1210-1-12ST	N6400-12-12-0-SS	N6400	14	SS-1212-1	N0318-12-SS	N0318	25
SS-100-1-2	N2404-01-02-SS	N2404	4	SS-1210-1-12W	N2425-12-12-SS	N2425	7	SS-1213-1	N0319-F-12-SS	N0319-F	25
SS-100-2-1	N2501-01-01-SS	N2501	17	SS-1210-1-16	N2404-12-16-SS	N2404	4	SS-1410 SET	N0319-S-14-SS	N0319-S	26
SS-100-2-2	N2501-01-02-SS	N2501	17	SS-1210-1-8	N2404-12-08-SS	N2404	4	SS-1410-1-12	N2404-14-12-SS	N2404	4
SS-100-6	N2403-01-01-SS	N2403	3	SS-1210-1-8RP	N7013-12-08-SS	N7013	16	SS-1410-2-12	N2501-14-12-SS	N2501	17
SS-100-61	N2700-LN-01-01-SS	N2700-LN	11	SS-1210-1-8RS	N7002-12-08-SS	N7002	15	SS-1410-2-14ST	N6801-14-14-NWO-SS	N6801	19
SS-100-7-1	N2405-01-01-SS	N2405	6	SS-1210-11-12	N2706-LN-12-12-SS	N2706-LN	13	SS-1410-3	N2603-14-14-14-SS	N2603	22
SS-100-7-2	N2405-01-02-SS	N2405	6	SS-1210-2-12	N2501-12-12-SS	N2501	17	SS-1410-6	N2403-14-14-SS	N2403	3
SS-100-9	N2500-01-01-SS	N2500	16	SS-1210-2-12PR	N7202-12-12-NWO-SS	N7202	20	SS-1410-7-12	N2405-14-12-SS	N2405	6
SS-100-C	N2408-01-SS	N2408	26	SS-1210-2-12ST	N6801-12-12-NWO-SS	N6801	19	SS-1410-8-12	N2502-14-12-SS	N2502	17
SS-100-P	N0304-01-SS	N0304	25	SS-1210-2-12W	N2525-12-12-SS	N2525	18	SS-1410-9	N2500-14-14-SS	N2500	16
SS-1010 SET	N0319-S-10-SS	N0319-S	26	SS-1210-2-8	N2501-12-08-SS	N2501	17	SS-1410-C	N2408-14-SS	N2408	26
SS-1010-1-10ST	N6400-10-10-0-SS	N6400	14	SS-1210-2-8PR	N7202-12-08-NWO-SS	N7202	20	SS-1410-P	N0304-14-SS	N0304	25
SS-1010-1-6	N2404-10-06-SS	N2404	4	SS-1210-3	N2603-12-12-12-SS	N2603	22	SS-1412-1	N0318-14-SS	N0318	25
SS-1010-1-8	N2404-10-08-SS	N2404	4	SS-1210-3-12-6	N2603-12-12-06-SS	N2603RU	22	SS-1413-1	N0319-F-14-SS	N0319-F	25
SS-1010-1-8W	N2425-10-08-SS	N2425	7	SS-1210-3-12-8	N2603-12-12-08-SS	N2603RU	22	SS-16-TA-1-12	N2428-16-12-SS	N2428	8
SS-1010-2-10ST	N6801-10-10-NWO-SS	N6801	19	SS-1210-3-6-12	N2603-12-06-12-SS	N2603RU	22	SS-16-TA-1-16	N2428-16-16-SS	N2428	8
SS-1010-2-8	N2501-10-08-SS	N2501	17	SS-1210-3-6-6	N2603-12-06-06-SS	N2603RU	22	SS-16-TA-1-16AN	N2427-16-16-SS	N2427	8
SS-1010-2-8PR	N7202-10-08-NWO-SS	N7202	20	SS-1210-3-8-12	N2603-12-08-12-SS	N2603RU	22	SS-16-TA-1-16ST	N2429-16-16-SS	N2429	9
SS-1010-3	N2603-10-10-10-SS	N2603	22	SS-1210-3-8-8	N2603-12-08-08-SS	N2603RU	22	SS-16-TA7-12	N2430-16-16-SS	N2430	9
SS-1010-3TMT	N2605-10-08-10-SS	N2605	23	SS-1210-3-8-TMT	N2605-12-08-12-SS	N2605	23	SS-16-TA7-16	N2430-16-12-SS	N2430	9
SS-1010-3TTM	N2601-10-10-08-SS	N2601	21	SS-1210-3TFT	N2606-12-12-12-SS	N2606	23	SS-1610 SET	N0319-S-16-SS	N0319-S	26
SS-1010-6	N2403-10-10-SS	N2403	3	SS-1210-3TMT	N2605-12-12-12-SS	N2605	23	SS-1610-1-12	N2404-16-12-SS	N2404	4
SS-1010-6-6	N2403-10-06-SS	N2403RU	4	SS-1210-3TST	N6804-12-12-12-NWO-SS	N6804	24	SS-1610-1-12RP	N7013-16-12-SS	N7013	16
SS-1010-6-8	N2403-10-08-SS	N2403RU	4	SS-1210-3TTF	N2602-12-12-12-SS	N2602	21	SS-1610-1-12RS	N7002-16-12-SS	N7002	15
SS-1010-61	N2700-LN-10-10-SS	N2700-LN	11	SS-1210-3TTM	N2601-12-12-12-SS	N2601	21	SS-1610-1-12ST	N6400-16-12-0-SS	N6400	14
SS-1010-7-6	N2405-10-06-SS	N2405	6	SS-1210-3TTS	N6803-12-12-12-NWO-SS	N6803	24	SS-1610-1-16	N2404-16-16-SS	N2404	4
SS-1010-7-8	N2405-10-08-SS	N2405	6	SS-1210-4	N2650-12-12-12-12-SS	N2650	24	SS-1610-1-16RP	N7013-16-16-SS	N7013	16
SS-1010-71-8	N2705-LN-10-08-SS	N2705-LN	12	SS-1210-5-12	N2503-12-12-SS	N2503	18	SS-1610-1-16RS	N7002-16-16-SS	N7002	15
SS-1010-8-6	N2502-10-06-SS	N2502	17	SS-1210-5-12ST	N6802-12-12-NWO-SS	N6802	20	SS-1610-1-16RT	N7000-16-16-SS	N7000	15
SS-1010-8-8	N2502-10-08-SS	N2502	17	SS-1210-6	N2403-12-12-SS	N2403	3	SS-1610-1-16ST	N6400-16-16-0-SS	N6400	14
SS-1010-9	N2500-10-10-SS	N2500	16	SS-1210-6-12AN	N2402-12-12-SS	N2402	3	SS-1610-1-16W	N2425-16-16-SS	N2425	7
SS-1010-C	N2408-10-SS	N2408	26	SS-1210-6-12W	N2426-12-12-SS	N2426	8	SS-1610-1-8	N2404-16-08-SS	N2404	4
SS-1010-P	N0304-10-SS	N0304	25	SS-1210-6-4	N2403-12-04-SS	N2403RU	4	SS-1610-1-8RP	N7013-16-08-SS	N7013	16
SS-1010-R-10	N2709-LN-10-10-SS	N2709-LN	14	SS-1210-6-6	N2403-12-06-SS	N2403RU	4	SS-1610-1-8RS	N7002-16-08-SS	N7002	15
SS-1010-R-12	N2406-10-12-SS	N2406	6	SS-1210-6-8	N2403-12-08-SS	N2403RU	4	SS-1610-11-16	N2706-LN-16-16-SS	N2706-LN	13
SS-1010-R-14	N2406-10-14-SS	N2406	6	SS-1210-61	N2700-LN-12-12-SS	N2700-LN	11	SS-1610-2-12	N2501-16-12-SS	N2501	17
SS-1012-1	N0318-10-SS	N0318	25	SS-1210-61-12AN	N2707-LN-12-12-SS	N2707-LN	13	SS-1610-2-12PR	N7202-16-12-NWO-SS	N7202	20
SS-1013-1	N0319-F-10-SS	N0319-F	25	SS-1210-7-12	N2405-12-12-SS	N2405	6	SS-1610-2-16	N2501-16-16-SS	N2501	17
SS-102-1	N0318-01-SS	N0318	25	SS-1210-7-8	N2405-12-08-SS	N2405	6	SS-1610-2-16PR	N7202-16-16-NWO-SS	N7202	20
SS-103-1	N0319-F-01-SS	N0319-F	25	SS-1210-71-12	N2705-LN-12-12-SS	N2705-LN	12	SS-1610-2-16ST	N6801-16-16-NWO-SS	N6801	19
SS-12-TA-1-12	N2428-12-12-SS	N2428	8	SS-1210-71-8	N2705-LN-12-08-SS	N2705-LN	12	SS-1610-2-16W	N2525-16-16-SS	N2525	18
SS-12-TA-1-12AN	N2427-12-12-SS	N2427	8	SS-1210-8-12	N2502-12-12-SS	N2502	17	SS-1610-3	N2603-16-16-16-SS	N2603	22
SS-12-TA-1-12ST	N2429-12-12-SS	N2429	9	SS-1210-8-8	N2502-12-08-SS	N2502	17	SS-1610-3-12-12	N2603-16-12-12-SS	N2603RU	22
SS-12-TA-1-8	N2428-12-08-SS	N2428	8	SS-1210-9	N2500-12-12-SS	N2500	16	SS-1610-3-12-16	N2603-16-12-16-SS	N2603RU	22
SS-12-TA7-12	N2430-12-12-SS	N2430	9	SS-1210-9-12W	N2526-12-12-SS	N2526	19	SS-1610-3-12-TFT	N2606-16-12-16-SS	N2606	23
SS-12-TA7-16	N2430-12-16-SS	N2430	9	SS-1210-C	N2408-12-SS	N2408	26	SS-1610-3-12TMT	N2605-16-12-16-SS	N2605	23
SS-12-TA7-8	N2430-12-08-SS	N2430	9	SS-1210-P	N0304-12-SS	N0304	25	SS-1610-3-12TTM	N2601-16-16-12-SS	N2601	21
SS-1210-1-12	N2404-12-12-SS	N2404	4	SS-1210-R-16	N2406-12-16-SS	N2406	6	SS-1610-3-16-12	N2603-16-16-12-SS	N2603RU	22

COMPETITOR # BRENNAN # SERIES PAGE

SS-1610-3-16-6	N2603-16-16-06-SS	N2603RU	22
SS-1610-3-16-8	N2603-16-16-08-SS	N2603RU	22
SS-1610-3-16TTF	N2602-16-16-16-SS	N2602	21
SS-1610-3-6-16	N2603-16-06-16-SS	N2603RU	22
SS-1610-3-6-6	N2603-16-06-06-SS	N2603RU	22
SS-1610-3-8-16	N2603-16-08-16-SS	N2603RU	22
SS-1610-3-8-8	N2603-16-08-08-SS	N2603RU	22
SS-1610-3TFT	N2606-16-16-16-SS	N2606	23
SS-1610-3TMT	N2605-16-16-16-SS	N2605	23
SS-1610-3TST	N6804-16-16-16-NWO-SS	N6804	24
SS-1610-3TTF	N2602-16-16-12-SS	N2602	21
SS-1610-3TTM	N2601-16-16-16-SS	N2601	21
SS-1610-3TTS	N6803-16-16-16-NWO-SS	N6803	24
SS-1610-4	N2650-16-16-16-16-SS	N2650	24
SS-1610-5-16	N2503-16-16-SS	N2503	18
SS-1610-5-16ST	N6802-16-16-16-NWO-SS	N6802	20
SS-1610-6	N2403-16-16-SS	N2403	3
SS-1610-6-12	N2403-16-12-SS	N2403RU	4
SS-1610-6-16AN	N2402-16-16-SS	N2402	3
SS-1610-6-16W	N2426-16-16-SS	N2426	8
SS-1610-6-8	N2403-16-08-SS	N2403RU	4
SS-1610-61	N2700-LN-16-16-SS	N2700-LN	11
SS-1610-61-16AN	N2707-LN-16-16-SS	N2707-LN	13
SS-1610-7-12	N2405-16-12-SS	N2405	6
SS-1610-7-16	N2405-16-16-SS	N2405	6
SS-1610-71-16	N2705-LN-16-16-SS	N2705-LN	12
SS-1610-8-12	N2502-16-12-SS	N2502	17
SS-1610-8-16	N2502-16-16-SS	N2502	17
SS-1610-9	N2500-16-16-SS	N2500	16
SS-1610-9-16W	N2526-16-16-SS	N2526	19
SS-1610-C	N2408-16-SS	N2408	26
SS-1610-P	N0304-16-SS	N0304	25
SS-1610-R-20	N2406-16-20-SS	N2406	6
SS-1610-R-24	N2406-16-24-SS	N2406	6
SS-1610-R1-16	N2709-LN-16-16-SS	N2709-LN	14
SS-1611-PC	N2440-16-16-SS	N2440	10
SS-1611-PC-12	N2440-16-12-SS	N2440RU	11
SS-1611-PC-8	N2440-16-08-SS	N2440RU	11
SS-1612-1	N0318-16-SS	N0318	25
SS-1613-1	N0319-F-16-SS	N0319-F	25
SS-18VF8	NVN-2040-SS	NVN	27
SS-18VS8	NVN-2039-SS	NVN	27
SS-1RF2	NVN-2003-SS	NVN	27
SS-1RF4	NVN-2008-SS	NVN	27
SS-1RM4	NVN-2009-SS	NVN	27
SS-1RM4-S4	NVN-2010-SS	NVN	27
SS-1RS4	NVN-2007-SS	NVN	27
SS-1RS6	NVN-2013-SS	NVN	27
SS-1RS8	NVN-2018-SS	NVN	27
SS-1VF4	NVN-2033-SS	NVN	27
SS-1VM4	NVN-2031-SS	NVN	27
SS-1VM6	NVN-2037-SS	NVN	27
SS-1VS4	NVN-2032-SS	NVN	27
SS-1VS6	NVN-2035-SS	NVN	27
SS-1VS8	NVN-2038-SS	NVN	27
SS-2-TA-1-2	N2428-02-02-SS	N2428	8

COMPETITOR # BRENNAN # SERIES PAGE

SS-2-TA-1-2ST	N2429-02-02-SS	N2429	9
SS-2-TA-1-4	N2428-02-04-SS	N2428	8
SS-2-TA-7-2	N2430-02-02-SS	N2430	9
SS-2-TA-7-4	N2430-02-04-SS	N2430	9
SS-20-TA-1-20	N2428-20-20-SS	N2428	8
SS-20-TA-1-20ST	N2429-20-20-SS	N2429	9
SS-20-TA7-20	N2430-20-20-SS	N2430	9
SS-200 SET	N0319-S-02-SS	N0319-S	26
SS-200-1-2	N2404-02-02-SS	N2404	4
SS-200-1-2RP	N7013-02-02-SS	N7013	16
SS-200-1-2RS	N7002-02-02-SS	N7002	15
SS-200-1-2RT	N7000-02-02-SS	N7000	15
SS-200-1-2ST	N6400-02-02-0-SS	N6400	14
SS-200-1-2W	N2425-02-02-SS	N2425	7
SS-200-1-4	N2404-02-04-SS	N2404	4
SS-200-1-4RP	N7013-02-04-SS	N7013	16
SS-200-1-4RS	N7002-02-04-SS	N7002	15
SS-200-1-4RT	N7000-02-04-SS	N7000	15
SS-200-11-2	N2706-LN-02-02-SS	N2706-LN	13
SS-200-2-2	N2501-02-02-SS	N2501	17
SS-200-2-4	N2501-02-04-SS	N2501	17
SS-200-3	N2603-02-02-02-SS	N2603	22
SS-200-3-2-TFT	N2606-02-02-02-SS	N2606	23
SS-200-3-4TMT	N2605-02-04-02-SS	N2605	23
SS-200-3-4TTM	N2601-02-02-04-SS	N2601	21
SS-200-3TMT	N2605-02-02-02-SS	N2605	23
SS-200-3TTF	N2602-02-02-02-SS	N2602	21
SS-200-3TTM	N2601-02-02-02-SS	N2601	21
SS-200-4	N2650-02-02-02-02-SS	N2650	24
SS-200-5-2	N2503-02-02-SS	N2503	18
SS-200-6	N2403-02-02-SS	N2403	3
SS-200-6-1	N2403-02-01-SS	N2403	3
SS-200-6-2AN	N2402-02-02-SS	N2402	3
SS-200-6-2W	N2426-02-02-SS	N2426	8
SS-200-61	N2700-LN-02-02-SS	N2700-LN	11
SS-200-7-2	N2405-02-02-SS	N2405	6
SS-200-7-4	N2405-02-04-SS	N2405	6
SS-200-71-2	N2705-LN-02-02-SS	N2705-LN	12
SS-200-8-2	N2502-02-02-SS	N2502	17
SS-200-8-4	N2502-02-04-SS	N2502	17
SS-200-9	N2500-02-02-SS	N2500	16
SS-200-C	N2408-02-SS	N2408	26
SS-200-P	N0304-02-SS	N0304	25
SS-200-R-2	N2406-02-02-SS	N2406	6
SS-200-R-4	N2406-02-04-SS	N2406	6
SS-200-R1-2	N2709-LN-02-02-SS	N2709-LN	14
SS-2000 SET	N0319-S-20-SS	N0319-S	26
SS-2000-1-16	N2404-20-16-SS	N2404	4
SS-2000-1-20	N2404-20-20-SS	N2404	4
SS-2000-1-20W	N2425-20-20-SS	N2425	7
SS-2000-11-20	N2706-LN-20-20-SS	N2706-LN	13
SS-2000-2-20	N2501-20-20-SS	N2501	17
SS-2000-2-20ST	N6801-20-20-NWO-SS	N6801	19
SS-2000-2-20W	N2525-20-20-SS	N2525	18
SS-2000-3	N2603-20-20-20-SS	N2603	22
SS-2000-3-16-16	N2603-20-16-16-SS	N2603RU	22

COMPETITOR # BRENNAN # SERIES PAGE

SS-2000-3-16-20	N2603-20-16-20-SS	N2603RU	22
SS-2000-3-20-16	N2603-20-20-16-SS	N2603RU	22
SS-2000-3-20TTM	N2601-20-20-20-SS	N2601	21
SS-2000-3TMT	N2605-20-20-20-SS	N2605	23
SS-2000-3TST	N6804-20-20-20-NWO-SS	N6804	24
SS-2000-3TTS	N6803-20-20-20-NWO-SS	N6803	24
SS-2000-6	N2403-20-20-SS	N2403	3
SS-2000-6-20	N2403-20-16-SS	N2403RU	4
SS-2000-6-20W	N2426-20-20-SS	N2426	8
SS-2000-61	N2700-LN-20-20-SS	N2700-LN	11
SS-2000-7-20	N2405-20-20-SS	N2405	6
SS-2000-71-20	N2705-LN-20-20-SS	N2705-LN	12
SS-2000-9	N2500-20-20-SS	N2500	16
SS-2000-9-20W	N2526-20-20-SS	N2526	19
SS-2000-C	N2408-20-SS	N2408	26
SS-2000-P	N0304-20-SS	N0304	25
SS-2000-R1-20	N2709-LN-20-20-SS	N2709-LN	14
SS-2002-1	N0318-20-SS	N0318	25
SS-2003-1	N0319-F-20-SS	N0319-F	25
SS-201-PC	N2440-02-02-SS	N2440	10
SS-202-1	N0318-02-SS	N0318	25
SS-203-1	N0319-F-02-SS	N0319-F	25
SS-24-TA-1-24	N2428-24-24-SS	N2428	8
SS-24-TA-1-24ST	N2429-24-24-SS	N2429	9
SS-24-TA-7-24	N2430-24-24-SS	N2430	9
SS-2400 SET	N0319-S-24-SS	N0319-S	26
SS-2400-1-24	N2404-24-24-SS	N2404	4
SS-2400-1-24W	N2425-24-24-SS	N2425	7
SS-2400-11-24	N2706-LN-24-24-SS	N2706-LN	13
SS-2400-2-24	N2501-24-24-SS	N2501	17
SS-2400-2-24ST	N6801-24-24-NWO-SS	N6801	19
SS-2400-2-24W	N2525-24-24-SS	N2525	18
SS-2400-3	N2603-24-24-24-SS	N2603	22
SS-2400-3-16-16	N2603-24-16-16-SS	N2603RU	22
SS-2400-3-24TTM	N2601-24-24-24-SS	N2601	21
SS-2400-3TMT	N2605-24-24-24-SS	N2605	23
SS-2400-3TST	N6804-24-24-24-NWO-SS	N6804	24
SS-2400-3TTS	N6803-24-24-24-NWO-SS	N6803	24
SS-2400-6	N2403-24-24-SS	N2403	3
SS-2400-6-20	N2403-24-20-SS	N2403RU	4
SS-2400-6-20W	N2426-24-24-SS	N2426	8
SS-2400-61	N2700-LN-24-24-SS	N2700-LN	11
SS-2400-7-24	N2405-24-24-SS	N2405	6
SS-2400-71-24	N2705-LN-24-24-SS	N2705-LN	12
SS-2400-9	N2500-24-24-SS	N2500	16
SS-2400-9-24W	N2526-24-24-SS	N2526	19
SS-2400-C	N2408-24-SS	N2408	26
SS-2400-P	N0304-24-SS	N0304	25
SS-2400-R1-24	N2709-LN-24-24-SS	N2709-LN	14
SS-2402-1	N0318-24-SS	N0318	25
SS-2413-1	N0319-F-24-SS	N0319-F	25
SS-300-2-2	N2501-03-02-SS	N2501	17
SS-300-2-4	N2501-03-04-SS	N2501	17
SS-300-3	N2603-03-03-03-SS	N2603	22
SS-300-6	N2403-03-03-SS	N2403	3
SS-300-61	N2700-LN-03-03-SS	N2700-LN	11

COMPETITOR #	BRENNAN #	SERIES	PAGE	COMPETITOR #	BRENNAN #	SERIES	PAGE	COMPETITOR #	BRENNAN #	SERIES	PAGE
SS-300-7-2	N2405-03-02-SS	N2405	6	SS-400-2-4	N2501-04-04-SS	N2501	17	SS-4JB	NVN-2204-SS	NVN	27
SS-300-8-2	N2502-03-02-SS	N2502	17	SS-400-2-4PR	N7202-04-04-NWO-SS	N7202	20	SS-5-TA-1-4	N2428-05-04-SS	N2428	8
SS-300-9	N2500-03-03-SS	N2500	16	SS-400-2-4ST	N6801-04-04-NWO-SS	N6801	19	SS-5-TA-1-5ST	N2429-05-05-SS	N2429	9
SS-300-P	N0304-03-SS	N0304	25	SS-400-2-4W	N2525-04-04-SS	N2525	18	SS-5-TA7-4	N2430-05-04-SS	N2430	9
SS-300-SET	N0319-S-03-SS	N0319-S	26	SS-400-2-6	N2501-04-06-SS	N2501	17	SS-500 SET	N0319-S-05-SS	N0319-S	26
SS-302-1	N0318-03-SS	N0318	25	SS-400-2-6ST	N6801-04-06-NWO-SS	N6801	19	SS-500-1-2RT	N7000-05-02-SS	N7000	15
SS-303-1	N0319-F-03-SS	N0319-F	25	SS-400-2-8	N2501-04-08-SS	N2501	17	SS-500-1-2W	N2425-05-02-SS	N2425	7
SS-3200 SET	N0319-S-32-SS	N0319-S	26	SS-400-3	N2603-04-04-04-SS	N2603	22	SS-500-1-4	N2404-05-04-SS	N2404	4
SS-3200-1-32	N2404-32-32-SS	N2404	4	SS-400-3-4TFT	N2606-04-04-04-SS	N2606	23	SS-500-1-4RT	N7000-05-04-SS	N7000	15
SS-3200-2-32	N2501-32-32-SS	N2501	17	SS-400-3-4TMT	N2605-04-04-04-SS	N2605	23	SS-500-1-4W	N2425-05-04-SS	N2425	7
SS-3200-3	N2603-32-32-32-SS	N2603	22	SS-400-3-4TTF	N2602-04-04-04-SS	N2602	21	SS-500-1-5ST	N6400-05-05-0-SS	N6400	14
SS-3200-6	N2403-32-32-SS	N2403	3	SS-400-3-4TTM	N2601-04-04-04-SS	N2601	21	SS-500-2-4	N2501-05-04-SS	N2501	17
SS-3200-61	N2700-LN-32-32-SS	N2700-LN	11	SS-400-3-6TMT	N2605-04-06-04-SS	N2605	23	SS-500-3	N2603-05-05-05-SS	N2603	22
SS-3200-9	N2500-32-32-SS	N2500	16	SS-400-3-6TTM	N2601-04-04-06-SS	N2601	21	SS-500-6	N2403-05-05-SS	N2403	3
SS-3200-C	N2408-32-SS	N2408	26	SS-400-3-8TMT	N2605-04-08-04-SS	N2605	23	SS-500-6-2	N2403-05-02-SS	N2403RU	4
SS-3200-P	N0304-32-SS	N0304	25	SS-400-3-8TTM	N2601-04-04-08-SS	N2601	21	SS-500-6-4	N2403-05-04-SS	N2403RU	4
SS-3202-1	N0318-32-SS	N0318	25	SS-400-3TFT	N2606-04-02-04-SS	N2606	23	SS-500-61	N2700-LN-05-05-SS	N2700-LN	11
SS-3213-1	N0319-F-32-SS	N0319-F	25	SS-400-3TMT	N2605-04-02-04-SS	N2605	23	SS-500-7-2	N2405-05-02-SS	N2405	6
SS-4-TA-1-2	N2428-04-02-SS	N2428	8	SS-400-3TST	N6804-04-04-04-NWO-SS	N6804	24	SS-500-7-4	N2405-05-04-SS	N2405	6
SS-4-TA-1-4	N2428-04-04-SS	N2428	8	SS-400-3TTF	N2602-04-04-02-SS	N2602	21	SS-500-8-2	N2502-05-02-SS	N2502	17
SS-4-TA-1-4AN	N2427-04-04-SS	N2427	8	SS-400-3TTM	N2601-04-04-02-SS	N2601	21	SS-500-8-4	N2502-05-04-SS	N2502	17
SS-4-TA-1-4ST	N2429-04-04-SS	N2429	9	SS-400-3TTS	N6803-04-04-04-NWO-SS	N6803	24	SS-500-9	N2500-05-05-SS	N2500	16
SS-4-TA-1-6	N2428-04-06-SS	N2428	8	SS-400-4	N2650-04-04-04-04-SS	N2650	24	SS-500-C	N2408-05-SS	N2408	26
SS-4-TA-1-8	N2428-04-08-SS	N2428	8	SS-400-5-2	N2503-04-02-SS	N2503	18	SS-500-P	N0304-05-SS	N0304	25
SS-4-TA-7-2	N2430-04-02-SS	N2430	9	SS-400-5-4	N2503-04-04-SS	N2503	18	SS-500-R-6	N2406-05-06-SS	N2406	6
SS-4-TA-7-4RT	N2431-04-04-SS	N2431	10	SS-400-5-4ST	N6802-04-04-NWO-SS	N6802	20	SS-500-R-8	N2406-05-08-SS	N2406	6
SS-4-TA7-4	N2430-04-04-SS	N2430	9	SS-400-6	N2403-04-04-SS	N2403	3	SS-502-1	N0318-05-SS	N0318	25
SS-4-TA7-6	N2430-04-06-SS	N2430	9	SS-400-6-2	N2403-04-02-SS	N2403RU	4	SS-503-1	N0319-F-05-SS	N0319-F	25
SS-4-TA7-8	N2430-04-08-SS	N2430	9	SS-400-6-4AN	N2402-04-04-SS	N2402	3	SS-6-TA-1-4	N2428-06-04-SS	N2428	8
SS-400 SET	N0319-S-04-SS	N0319-S	26	SS-400-6-4W	N2426-04-04-SS	N2426	8	SS-6-TA-1-6	N2428-06-06-SS	N2428	8
SS-400-1-2	N2404-04-02-SS	N2404	4	SS-400-61	N2700-LN-04-04-SS	N2700-LN	11	SS-6-TA-1-6AN	N2427-06-06-SS	N2427	8
SS-400-1-2RP	N7013-04-02-SS	N7013	16	SS-400-61-2	N2700-LN-04-02-SS	N2700-LNRU	12	SS-6-TA-1-8	N2428-06-08-SS	N2428	8
SS-400-1-2RS	N7002-04-02-SS	N7002	15	SS-400-61-4AN	N2707-LN-04-04-SS	N2707-LN	13	SS-6-TA-7-6RT	N2431-06-06-SS	N2431	10
SS-400-1-2RT	N7000-04-02-SS	N7000	15	SS-400-7-2	N2405-04-02-SS	N2405	6	SS-6-TA7-4	N2430-06-04-SS	N2430	9
SS-400-1-2W	N2425-04-02-SS	N2425	7	SS-400-7-4	N2405-04-04-SS	N2405	6	SS-6-TA7-6	N2430-06-06-SS	N2430	9
SS-400-1-4	N2404-04-04-SS	N2404	4	SS-400-7-6	N2405-04-06-SS	N2405	6	SS-6-TA7-8	N2430-06-08-SS	N2430	9
SS-400-1-4RP	N7013-04-04-SS	N7013	16	SS-400-7-8	N2405-04-08-SS	N2405	6	SS-600 SET	N0319-S-06-SS	N0319-S	26
SS-400-1-4RS	N7002-04-04-SS	N7002	15	SS-400-71-2	N2705-LN-04-02-SS	N2705-LN	12	SS-600-1-2	N2404-06-02-SS	N2404	4
SS-400-1-4RT	N7000-04-04-SS	N7000	15	SS-400-71-4	N2705-LN-04-04-SS	N2705-LN	12	SS-600-1-2RP	N7013-06-02-SS	N7013	16
SS-400-1-4ST	N6400-04-04-0-SS	N6400	14	SS-400-8-2	N2502-04-02-SS	N2502	17	SS-600-1-2RS	N7002-06-02-SS	N7002	15
SS-400-1-4W	N2425-04-04-SS	N2425	7	SS-400-8-4	N2502-04-04-SS	N2502	17	SS-600-1-2RT	N7000-06-02-SS	N7000	15
SS-400-1-6	N2404-04-06-SS	N2404	4	SS-400-8-6	N2502-04-06-SS	N2502	17	SS-600-1-4	N2404-06-04-SS	N2404	4
SS-400-1-6RP	N7013-04-06-SS	N7013	16	SS-400-8-8	N2502-04-08-SS	N2502	17	SS-600-1-4RP	N7013-06-04-SS	N7013	16
SS-400-1-6RS	N7002-04-06-SS	N7002	15	SS-400-9	N2500-04-04-SS	N2500	16	SS-600-1-4RS	N7002-06-04-SS	N7002	15
SS-400-1-6RT	N7000-04-06-SS	N7000	15	SS-400-9-4W	N2526-04-04-SS	N2526	19	SS-600-1-4RT	N7000-06-04-SS	N7000	15
SS-400-1-6ST	N6400-04-06-0-SS	N6400	14	SS-400-C	N2408-04-SS	N2408	26	SS-600-1-4W	N2425-06-04-SS	N2425	7
SS-400-1-8	N2404-04-08-SS	N2404	4	SS-400-P	N0304-04-SS	N0304	25	SS-600-1-6	N2404-06-06-SS	N2404	4
SS-400-1-8RP	N7013-04-08-SS	N7013	16	SS-400-R-2	N2406-04-02-SS	N2406	6	SS-600-1-6RP	N7013-06-06-SS	N7013	16
SS-400-1-8RS	N7002-04-08-SS	N7002	15	SS-400-R-4	N2406-04-04-SS	N2406	6	SS-600-1-6RS	N7002-06-06-SS	N7002	15
SS-400-1-8RT	N7000-04-08-SS	N7000	15	SS-400-R-6	N2406-04-06-SS	N2406	6	SS-600-1-6RT	N7000-06-06-SS	N7000	15
SS-400-1-8ST	N6400-04-08-0-SS	N6400	14	SS-400-R-8	N2406-04-08-SS	N2406	6	SS-600-1-6ST	N6400-06-06-0-SS	N6400	14
SS-400-11-2	N2706-LN-04-02-SS	N2706-LN	13	SS-400-R1-4	N2709-LN-04-04-SS	N2709-LN	14	SS-600-1-6W	N2425-06-06-SS	N2425	7
SS-400-11-4	N2706-LN-04-04-SS	N2706-LN	13	SS-401-PC	N2440-04-04-SS	N2440	10	SS-600-1-8	N2404-06-08-SS	N2404	4
SS-400-2-2	N2501-04-02-SS	N2501	17	SS-401-PC-2	N2440-04-02-SS	N2440RU	11	SS-600-1-8RP	N7013-06-08-SS	N7013	16
SS-400-2-2PR	N7202-04-02-NWO-SS	N7202	20	SS-402-1	N0318-04-SS	N0318	25	SS-600-1-8RS	N7002-06-08-SS	N7002	15
SS-400-2-2W	N2525-04-02-SS	N2525	18	SS-403-1	N0319-F-04-SS	N0319-F	25	SS-600-1-8RT	N7000-06-08-SS	N7000	15

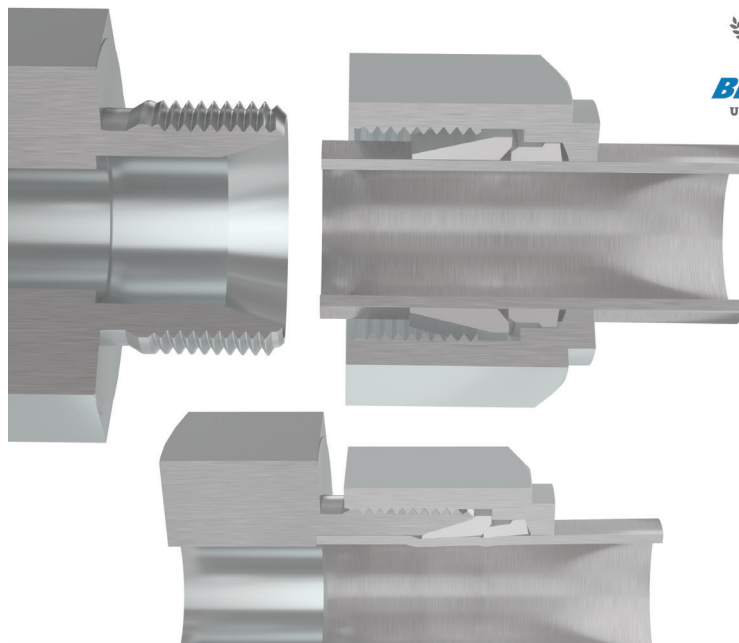
COMPETITOR #	BRENNAN #	SERIES	PAGE	COMPETITOR #	BRENNAN #	SERIES	PAGE	COMPETITOR #	BRENNAN #	SERIES	PAGE
SS-600-1-8W	N2425-06-08-SS	N2425	7	SS-600-R-4	N2406-06-04-SS	N2406	6	SS-810-3-4TTF	N2602-08-08-04-SS	N2602	21
SS-600-11-4	N2706-LN-06-04-SS	N2706-LN	13	SS-600-R-6	N2406-06-06-SS	N2406	6	SS-810-3-4TTM	N2601-08-08-04-SS	N2601	21
SS-600-11-6	N2706-LN-06-06-SS	N2706-LN	13	SS-600-R-8	N2406-06-08-SS	N2406	6	SS-810-3-6-6	N2603-08-06-06-SS	N2603RU	22
SS-600-11-8	N2706-LN-06-08-SS	N2706-LN	13	SS-600-R1-6	N2709-LN-06-06-SS	N2709-LN	14	SS-810-3-6-8	N2603-08-06-08-SS	N2603RU	22
SS-600-2-12	N2501-06-12-SS	N2501	17	SS-601-PC	N2440-06-06-SS	N2440	10	SS-810-3-8-4	N2603-08-08-04-SS	N2603RU	22
SS-600-2-2	N2501-06-02-SS	N2501	17	SS-601-PC-2	N2440-06-02-SS	N2440RU	11	SS-810-3-8-6	N2603-08-08-06-SS	N2603RU	22
SS-600-2-4	N2501-06-04-SS	N2501	17	SS-601-PC-4	N2440-06-04-SS	N2440RU	11	SS-810-3-8TFT	N2606-08-08-08-SS	N2606	23
SS-600-2-4PR	N7202-06-04-NWO-SS	N7202	20	SS-602-1	N0318-06-SS	N0318	25	SS-810-3-8TMT	N2605-08-08-08-SS	N2605	23
SS-600-2-4W	N2525-06-04-SS	N2525	18	SS-603-1	N0319-F-06-SS	N0319-F	25	SS-810-3-8TTF	N2602-08-08-08-SS	N2602	21
SS-600-2-6	N2501-06-06-SS	N2501	17	SS-6JB	NVN-2207-SS	NVN	27	SS-810-3-8TTM	N2601-08-08-08-SS	N2601	21
SS-600-2-6PR	N7202-06-06-NWO-SS	N7202	20	SS-8-TA-1-4	N2428-08-04-SS	N2428	8	SS-810-3TFT	N2606-08-06-08-SS	N2606	23
SS-600-2-6ST	N6801-06-06-NWO-SS	N6801	19	SS-8-TA-1-6	N2428-08-06-SS	N2428	8	SS-810-3TMT	N2605-08-06-08-SS	N2605	23
SS-600-2-8	N2501-06-08-SS	N2501	17	SS-8-TA-1-8	N2428-08-08-SS	N2428	8	SS-810-3TST	N6804-08-08-08-NWO-SS	N6804	24
SS-600-2-8ST	N6801-06-08-NWO-SS	N6801	19	SS-8-TA-1-8AN	N2427-08-08-SS	N2427	8	SS-810-3TTF	N2602-08-08-06-SS	N2602	21
SS-600-3	N2603-06-06-06-SS	N2603	22	SS-8-TA-1-8ST	N2429-08-08-SS	N2429	9	SS-810-3TTM	N2601-08-08-06-SS	N2601	21
SS-600-3-4-4	N2603-06-04-04-SS	N2603RU	22	SS-8-TA-7-8RT	N2431-08-08-SS	N2431	10	SS-810-3TTS	N6803-08-08-08-NWO-SS	N6803	24
SS-600-3-4-6	N2603-06-04-06-SS	N2603RU	22	SS-8-TA7-4	N2430-08-04-SS	N2430	9	SS-810-4	N2650-08-08-08-08-SS	N2650	24
SS-600-3-4TTM	N2601-06-06-04-SS	N2601	21	SS-8-TA7-6	N2430-08-06-SS	N2430	9	SS-810-5-6	N2503-08-06-SS	N2503	18
SS-600-3-6-4	N2603-06-06-04-SS	N2603RU	22	SS-8-TA7-8	N2430-08-08-SS	N2430	9	SS-810-5-8	N2503-08-08-SS	N2503	18
SS-600-3-6TFT	N2606-06-06-06-SS	N2606	23	SS-810 SET	N0319-S-08-SS	N0319-S	26	SS-810-5-8ST	N6802-08-08-NWO-SS	N6802	20
SS-600-3-6TMT	N2605-06-06-06-SS	N2605	23	SS-810-1-10ST	N6400-08-10-0-SS	N6400	14	SS-810-6	N2403-08-08-SS	N2403	3
SS-600-3-6TTF	N2602-06-06-06-SS	N2602	21	SS-810-1-12	N2404-08-12-SS	N2404	4	SS-810-6-2	N2403-08-02-SS	N2403RU	4
SS-600-3-6TTM	N2601-06-06-06-SS	N2601	21	SS-810-1-12W	N2425-08-12-SS	N2425	7	SS-810-6-4	N2403-08-04-SS	N2403RU	4
SS-600-3-8TMT	N2605-06-08-06-SS	N2605	23	SS-810-1-16	N2404-08-16-SS	N2404	4	SS-810-6-6	N2403-08-06-SS	N2403RU	4
SS-600-3-8TTM	N2601-06-06-08-SS	N2601	21	SS-810-1-2	N2404-08-02-SS	N2404	4	SS-810-6-8AN	N2402-08-08-SS	N2402	3
SS-600-3TFT	N2606-06-04-06-SS	N2606	23	SS-810-1-4	N2404-08-04-SS	N2404	4	SS-810-6-8W	N2426-08-08-SS	N2426	8
SS-600-3TMT	N2605-06-04-06-SS	N2605	23	SS-810-1-4RP	N7013-08-04-SS	N7013	16	SS-810-61	N2700-LN-08-08-SS	N2700-LN	11
SS-600-3TST	N6804-06-06-06-NWO-SS	N6804	24	SS-810-1-4RS	N7002-08-04-SS	N7002	15	SS-810-61-4	N2700-LN-08-04-SS	N2700-LNRU	12
SS-600-3TTF	N2602-06-06-04-SS	N2602	21	SS-810-1-4RT	N7000-08-04-SS	N7000	15	SS-810-61-6	N2700-LN-08-06-SS	N2700-LNRU	12
SS-600-3TTS	N6803-06-06-06-NWO-SS	N6803	24	SS-810-1-6	N2404-08-06-SS	N2404	4	SS-810-61-8AN	N2707-LN-08-08-SS	N2707-LN	13
SS-600-4	N2650-06-06-06-06-SS	N2650	24	SS-810-1-6RP	N7013-08-06-SS	N7013	16	SS-810-7-12	N2405-08-12-SS	N2405	6
SS-600-5-2	N2503-06-02-SS	N2503	18	SS-810-1-6RS	N7002-08-06-SS	N7002	15	SS-810-7-4	N2405-08-04-SS	N2405	6
SS-600-5-4	N2503-06-04-SS	N2503	18	SS-810-1-6RT	N7000-08-06-SS	N7000	15	SS-810-7-6	N2405-08-06-SS	N2405	6
SS-600-5-6	N2503-06-06-SS	N2503	18	SS-810-1-6W	N2425-08-06-SS	N2425	7	SS-810-7-8	N2405-08-08-SS	N2405	6
SS-600-5-6ST	N6802-06-06-NWO-SS	N6802	20	SS-810-1-8	N2404-08-08-SS	N2404	4	SS-810-71-6	N2705-LN-08-06-SS	N2705-LN	12
SS-600-6	N2403-06-06-SS	N2403	3	SS-810-1-8RP	N7013-08-08-SS	N7013	16	SS-810-71-8	N2705-LN-08-08-SS	N2705-LN	12
SS-600-6-2	N2403-06-02-SS	N2403RU	4	SS-810-1-8RS	N7002-08-08-SS	N7002	15	SS-810-8-4	N2502-08-04-SS	N2502	17
SS-600-6-4	N2403-06-04-SS	N2403RU	4	SS-810-1-8RT	N7000-08-08-SS	N7000	15	SS-810-8-6	N2502-08-06-SS	N2502	17
SS-600-6-6AN	N2402-06-06-SS	N2402	3	SS-810-1-8ST	N6400-08-08-0-SS	N6400	14	SS-810-8-8	N2502-08-08-SS	N2502	17
SS-600-6-6W	N2426-06-06-SS	N2426	8	SS-810-1-8W	N2425-08-08-SS	N2425	7	SS-810-9	N2500-08-08-SS	N2500	16
SS-600-61	N2700-LN-06-06-SS	N2700-LN	11	SS-810-11-6	N2706-LN-08-06-SS	N2706-LN	13	SS-810-9-8W	N2526-08-08-SS	N2526	19
SS-600-61-4	N2700-LN-06-04-SS	N2700-LNRU	12	SS-810-11-8	N2706-LN-08-08-SS	N2706-LN	13	SS-810-C	N2408-08-SS	N2408	26
SS-600-61-6AN	N2707-LN-06-06-SS	N2707-LN	13	SS-810-2-12	N2501-08-12-SS	N2501	17	SS-810-P	N0304-08-SS	N0304	25
SS-600-7-2	N2405-06-02-SS	N2405	6	SS-810-2-2	N2501-08-02-SS	N2501	17	SS-810-R-12	N2406-08-12-SS	N2406	6
SS-600-7-4	N2405-06-04-SS	N2405	6	SS-810-2-4	N2501-08-04-SS	N2501	17	SS-810-R-16	N2406-08-16-SS	N2406	6
SS-600-7-6	N2405-06-06-SS	N2405	6	SS-810-2-4PR	N7202-08-04-NWO-SS	N7202	20	SS-810-R-4	N2406-08-04-SS	N2406	6
SS-600-7-8	N2405-06-08-SS	N2405	6	SS-810-2-6	N2501-08-06-SS	N2501	17	SS-810-R-6	N2406-08-06-SS	N2406	6
SS-600-71-4	N2705-LN-06-04-SS	N2705-LN	12	SS-810-2-6PR	N7202-08-06-NWO-SS	N7202	20	SS-810-R-8	N2406-08-08-SS	N2406	6
SS-600-8-2	N2502-06-02-SS	N2502	17	SS-810-2-8	N2501-08-08-SS	N2501	17	SS-810-R1-8	N2709-LN-08-08-SS	N2709-LN	14
SS-600-8-4	N2502-06-04-SS	N2502	17	SS-810-2-8PR	N7202-08-08-NWO-SS	N7202	20	SS-811-PC	N2440-08-08-SS	N2440	10
SS-600-8-6	N2502-06-06-SS	N2502	17	SS-810-2-8ST	N6801-08-08-NWO-SS	N6801	19	SS-811-PC-4	N2440-08-04-SS	N2440RU	11
SS-600-8-8	N2502-06-08-SS	N2502	17	SS-810-2-8W	N2525-08-08-SS	N2525	18	SS-812-1	N0318-08-SS	N0318	25
SS-600-9	N2500-06-06-SS	N2500	16	SS-810-3	N2603-08-08-08-SS	N2603	22	SS-813-1	N0319-F-08-SS	N0319-F	25
SS-600-9-6W	N2526-06-06-SS	N2526	19	SS-810-3-4-4	N2603-08-04-04-SS	N2603RU	22				
SS-600-C	N2408-06-SS	N2408	26	SS-810-3-4-8	N2603-08-04-08-SS	N2603RU	22				
SS-600-P	N0304-06-SS	N0304	25	SS-810-3-4TMT	N2605-08-04-08-SS	N2605	23				

INDEX

SERIES	DESCRIPTION	PAGE
N0304	IN PLUG	25
N0318	IN NUT	25
N0319-B	BACK FERRULE	25
N0319-F	FRONT FERRULE	25
N0319-S	FERRULE SET	26
N2402	IN-MJ STRAIGHT	3
N2403	IN-IN STRAIGHT	3
N2403RU	IN-IN STRAIGHT	4
N2404	IN-MNPT STRAIGHT	4
N2404-BT	IN-MNPT STRAIGHT - BORE THROUGH	5
N2405	IN-FNPT STRAIGHT	6
N2406	IN-STDPIPE STRAIGHT	6
N2408	IN CAP	26
N2425	IN-BW STRAIGHT	7
N2426	IN-SW STRAIGHT	8
N2427	STDPIPE-MJC STRAIGHT	8
N2428	STDPIPE-MNPT STRAIGHT	8
N2429	STDPIPE-MORB STRAIGHT	9

SERIES	DESCRIPTION	PAGE
N2430	STDPIPE-FNPT STRAIGHT	9
N2431	STDPIPE-FGA STRAIGHT	10
N2440	STDPIPE-FERR PORT CONNECTOR	10
N2440RU	STDPIPE-FERR PORT CONNECTOR	11
N2500	IN-IN 90 ELBOW	16
N2501	IN-MNPT 90 ELBOW	17
N2502	IN-FNPT 90 ELBOW	17
N2503	IN-MNPT 45 ELBOW	18
N2525	IN-BW 90 ELBOW	18
N2526	IN-SW 90 ELBOW	19
N2601	IN-IN-MNPT TEE	21
N2602	IN-IN-FNPT TEE	21
N2603	IN-IN-IN TEE	22
N2603RU	IN-IN-IN TEE	22
N2605	IN-MNPT-IN TEE	23
N2606	IN-FNPT-IN TEE	23
N2650	IN-IN-IN-IN CROSS	24
N2700-LN	INBH-IN STRAIGHT	11

SERIES	DESCRIPTION	PAGE
N2700-LNRU	INBH-IN STRAIGHT	12
N2701-LN	INBH-IN 90 ELBOW	19
N2705-LN	INBH-FNPT STRAIGHT	12
N2706-LN	INBH-MNPT STRAIGHT	13
N2707-LN	INBH-MJ STRAIGHT	13
N2709-LN	INBH-STDPIPE STRAIGHT	14
N6400	IN-MORB STRAIGHT	14
N6801	IN-MAORB 90 ELBOW	19
N6802	IN-MAORB 45 ELBOW	20
N6803	IN-IN-MAORB TEE	24
N6804	IN-MAORB-IN TEE	24
N7000	IN-MBSPT STRAIGHT	15
N7002	IN-MBSPP STRAIGHT	15
N7013	IN-MBSPP FORM B STRAIGHT	16
N7202	IN-MBSPP 90 ELBOW	20
NVN	NEEDLE VALVE	27
NVB-1000	TWO-WAY BALL VALVE	26
NVB-1100	THREE WAY BALL VALVE	27



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