

DIMENSION CHART

FFC, LSFFT, LST, LSE45, LSE90, LSY

	"A"	"B"	"D"	"E"	"G"	"K"	"L"	"P"	"Q"
Inches	3.50	16.00	8.00	4.25	3.75	2,50	4.25	4.13	12.00
mm	88.9	406.4	203.2	108.0	95.3	63.5	108.0	104.9	304.8

	"R"	"S"	"T"
Inches	10.00	11.38	3.13
mm	254.0	289.1	79.5

Item #	2" Manifold Description	Max. Press. PSI (BAR)	Weight Lbs.
412101	FULL FLOW CROSS,2222X,2" LPT	5,000 (345)	110
* 412103	FULL FLOW CROSS,2222X,2" BW SCH.160	5,000 (345)	110
412104	FULL FLOW CROSS,2222X,2" BW SCH.XXS	5,000 (345)	110
412071	LONG SWEEP ELL,22L45,2" LPT	5,000 (345)	12
* 412073	LONG SWEEP ELL,22L45,2" BW SCH.160	5,000 (345)	12
412074	LONG SWEEP ELL,22L45,2" BW SCH.XXS	5,000 (345)	12
412061	LONG SWEEP ELL,22L90,2" LPT	5,000 (345)	30
412015	LONG SWEEP ELL,22L90,2" BW SCH.80	3,000 (207)	30
412063	LONG SWEEP ELL,22L90,2" BW SCH.160	5,000 (345)	30
412064	LONG SWEEP ELL,22L90,2" BW SCH.XXS	5,000 (345)	30
412011	LONG SWEEP FULL FLOW TEE,222T,2" LPT	5,000 (345)	51
412016	LONG SWEEP FULL FLOW TEE,222T,2" BW SCH.80	3,000 (207)	51
412013	LONG SWEEP FULL FLOW TEE,222T,2" BW SCH.160	5,000 (345)	51
412014	LONG SWEEP FULL FLOW TEE,222T,2" BW SCH.XXS	5,000 (345)	51
412021	LONG SWEEP TEE,222LST,2" LPT	5,000 (345)	60
* 412023	LONG SWEEP TEE,222LST,2" BW SCH.160	5,000 (345)	60
412024	LONG SWEEP TEE,222LST,2" BW SCH.XXS	5,000 (345)	60

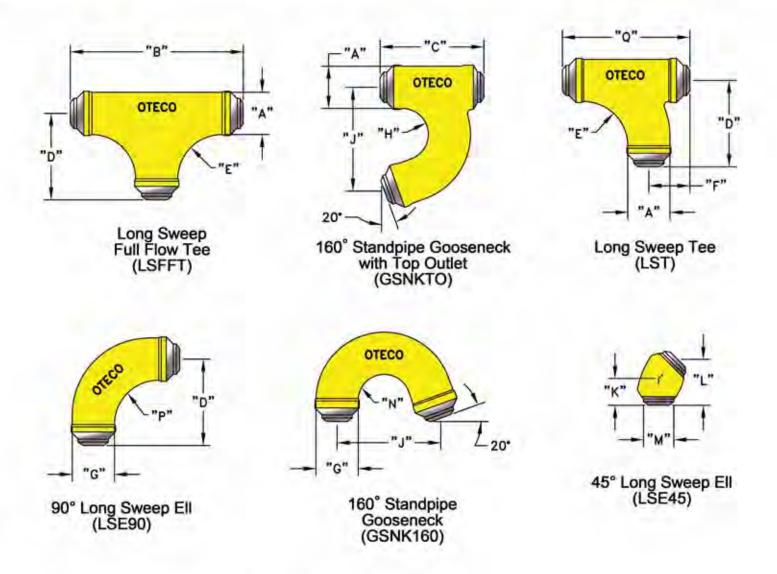
Note: Sour gas service available.

Castings are made from ASTM A216 Grade WCC.

Special end connections available upon request.

Sch.80 end connections rated at 3K PSI working pressure.

3" 5K MANIFOLD FITTINGS



DIMENSION CHART

LSFFT, GSNKTO, LST, LSE90, GSNK160, LSE45

	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"
Inches	4.88	20.00	12.00	10.00	5.13	4.75	5.13	3.01	12.00
mm	124.0	508.0	304.8	254.0	130.3	120.7	130.3	76.5	304.8

	"K"	"L"	"M"	"N"	"P"	"Q"
Inches	3.11	5.31	5.06	2.89	5.00	14,75
mm	79.0	134.9	128.5	73.4	127.0	374.7

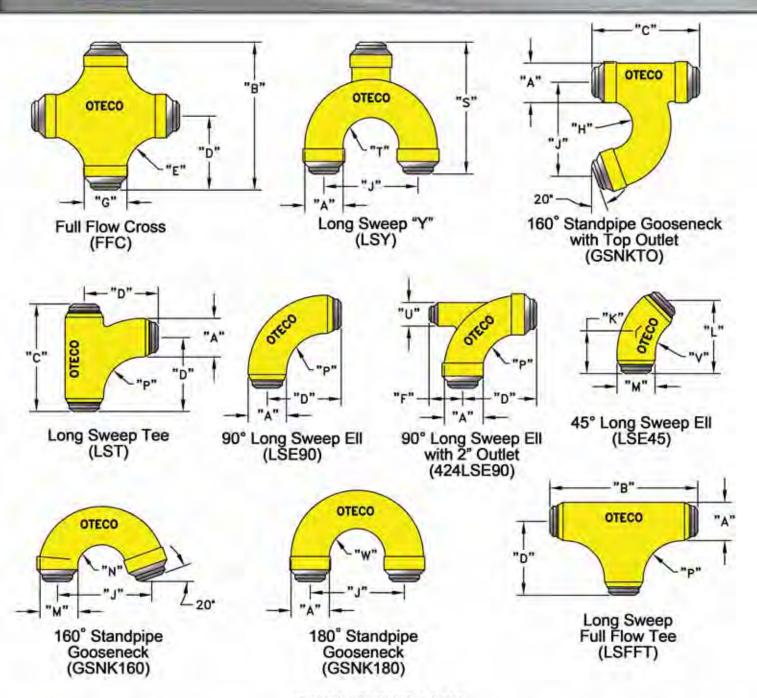
Item #	3" Manifold Description	Max. Press. PSI (BAR)	Weight Lbs.
4 13051	GOOSENECK 160° W/TOP OUTLET,333GTO,3" LPT	3,000 (207)	105
* 4 413053	GOOSENECK 160° W/TOP OUTLET,333GTO,3" BW SCH.160	5,000 (345)	105
413054	GOOSENECK 160° W/TOP OUTLET,333GTO,3" BW SCH.XXS	5,000 (345)	105
413031	GOOSENECK 160°,33G6,3" LPT	3,000 (207)	82
* 4 413033	GOOSENECK 160°,33G6,3" BW SCH.160	5,000 (345)	82
413034	GOOSENECK 160°,33G6,3" BW SCH.XXS	5,000 (345)	82
413071	LONG SWEEP ELL,33L45,3" LPT	3,000 (207)	20
413073	LONG SWEEP ELL,33L45,3" BW SCH.160	5,000 (345)	20
413074	LONG SWEEP ELL,33L45,3" BW SCH.XXS	5,000 (345)	20
413061	LONG SWEEP ELL,33L90,3" LPT	3,000 (207)	67
★ 4 413063	LONG SWEEP ELL,33L90,3" BW SCH.160	5,000 (345)	67
413064	LONG SWEEP ELL,33L90,3" BW SCH.XXS	5,000 (345)	67
4 13011	LONG SWEEP FULL FLOW TEE,333T,3" LPT	3,000 (207)	97
* 413013	LONG SWEEP FULL FLOW TEE,333T,3" BW SCH.160	5,000 (345)	97
413014	LONG SWEEP FULL FLOW TEE,333T,3" BW SCH.XXS	5,000 (345)	97
413021	LONG SWEEP TEE,333LST,3" LPT	3,000 (207)	80
* 413023	LONG SWEEP TEE,333LST,3" BW SCH.160	5,000 (345)	80
413024	LONG SWEEP TEE,333LST,3" BW SCH.XXS	5,000 (345)	80

Note: Sour gas service available.

Castings are made from ASTM A216 Grade WCC.

Special end connections available upon request.

Sch.80 B.W. & 3" L.P.T. end connections rated at 3K PSI working pressure.



DIMENSION CHART

FFC, LSY, GSNKTO, LST, LSE90, 424LSE90, LSE45, GSNK160, GSNK180, LSFFT

1.40.4	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"
Inches	5.69	22.00	16.00	11.00	5.50	5.00	6.25	3.59	14.00	6.38
mm	144.5	558.8	406.4	279.4	139.7	127.0	158.8	91.2	355.6	162.1

	"L"	"M"	"N"	"P"	"S"	"T"	"U"	"V"	"W"
Inches	10.88	5.66	3.63	5.75	19.63	4.16	3.50	5.38	4.03
								136.7	

	Item #	4" Manifold Description	Max. Press. PSI (BAR)	Weight Lbs.
r	414101	FULL FLOW CROSS 4444X,4" LPT	3,000 (207)	206
*{	414103	FULL FLOW CROSS 4444X,4" BW SCH.160	5,000 (345)	206
L	414104	FULL FLOW CROSS 4444X,4" BW SCH.XXS	5,000 (345)	206
	414051	GOOSENECK 160° W/TOP OUTLET,444GTO,4" LPT	3,000 (207)	142
	414053	GOOSENECK 160° W/TOP OUTLET,444GTO,4" BW SCH.160	5,000 (345)	142
	414054	GOOSENECK 160° W/TOP OUTLET,444GTO,4" BWSCH.XXS	5,000 (345)	142
r	414031	GOOSENECK 160°,44G6,4" LPT	3,000 (207)	109
*{	414033	GOOSENECK 160°,44G6,4" BW SCH.160	5,000 (345)	109
L	414034	GOOSENECK 160°,44G6,4" BW SCH.XXS	5,000 (345)	109
ſ	414041	GOOSENECK 180°,44G8,4" LPT	3,000 (207)	129
* {	414043	GOOSENECK 180°,44G8,4" BW SCH.160	5,000 (345)	129
L	414044	GOOSENECK 180°,44G8,4" BW SCH.XXS	5,000 (345)	129
r	414081	LONG SWEEP ELL W/2" TOP OUTLET,424L90,4X2X4 LPT	3,000 (207)	95
* {	414083	LONG SWEEP ELL W/2" TOP OUTLET,424L90,4" BW SCH.160	5,000 (345)	95
L	414084	LONG SWEEP ELL W/2" TOP OUTLET,424L90,4" BW SCH.XXS	5,000 (345)	95
	414071	LONG SWEEP ELL,44L45,4" LPT	3,000 (207)	55
	414073	LONG SWEEP ELL,44L45,4" BW SCH.160	5,000 (345)	55
	414074	LONG SWEEP ELL,44L45,4" BW SCH.XXS	5,000 (345)	55
	414061	LONG SWEEP ELL,44L90,4" LPT	3,000 (207)	87
	414062	LONG SWEEP ELL,44L90,4" BW SCH.80	3,000 (207)	87
	414063	LONG SWEEP ELL,44L90,4" BW SCH.160	5,000 (345)	87
	414064	LONG SWEEP ELL,44L90,4" BW SCH.XXS	5,000 (345)	87
	414011	LONG SWEEP FULL FLOW TEE,444T,4" LPT	3,000 (207)	140
	414013	LONG SWEEP FULL FLOW TEE,444T,4" BW SCH.160	5,000 (345)	140
	414014	LONG SWEEP FULL FLOW TEE,444T,4" BW SCH.XXS	5,000 (345)	140
r	414021	LONG SWEEP TEE,444LST,4" LPT	3,000 (207)	115
* {	414023	LONG SWEEP TEE,444LST,4" BW SCH.160	5,000 (345)	115
	414024	LONG SWEEP TEE,444LST,4" BW SCH.XXS	5,000 (345)	115
r	414091	LONG SWEEP Y,444Y,4" LPT	3,000 (207)	162
*{	414093	LONG SWEEP Y,444Y,4" BW SCH.160	5,000 (345)	162
L	414094	LONG SWEEP Y,444Y,4" BW SCH.XXS	5,000 (345)	162

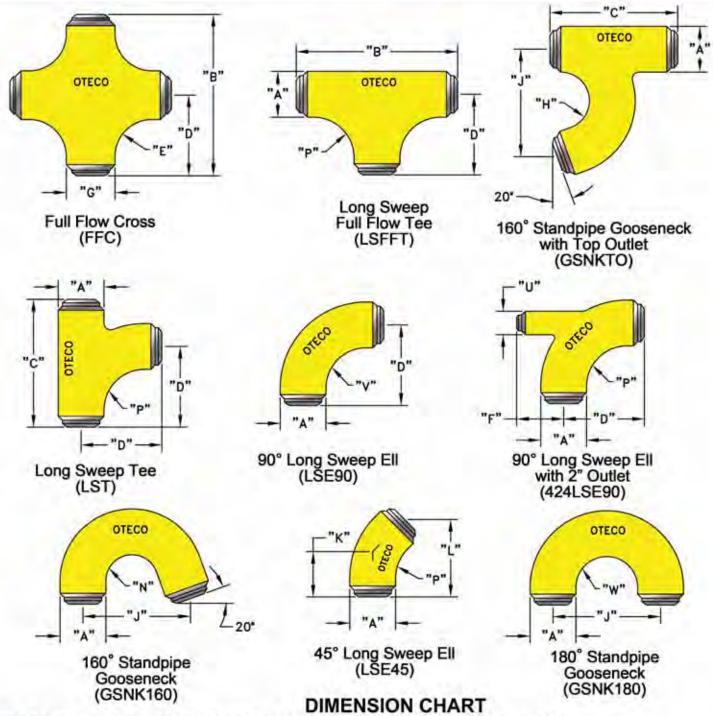
Note: Sour gas service available.

Castings are made from ASTM A216 Grade WCC.

Special end connections available upon request.

Sch.80 B.W. & 4" L.P.T. end connections rated at 3K PSI working pressure.

5" 5K & 7.5K MANIFOLD FITTINGS



FFC, LSFFT, GSNKTO, LST, LSE90, 525LSE90, LSE45, GSNK160, GSNK180

	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
Inches	6.81	24.00	19.00	12.00	5.50	7.00	7.25	4.25
mm	173.0	609.6	482.6	304.8	139.7	177.8	184.2	108.0
Ē	11,111	"K"	11.11	"N"	"D"	9119	"V"	"W"

	"J"	"K"	"L"	"N"	"P"	"U"	"V"	"W"
Inches	16.00	6.74	11.50	3.75	6.00	3.50	5.88	4.47
mm	406.4	171.2	292.1	95.3	152.4	88.9	149.4	113.5

Item #	5" Manifold Description	Max. Press. PSI (BAR)	Weight Lbs.
C 415103	FULL FLOW CROSS,5555X,5" BW SCH.160	5,000 (345)	515
* 4 415104	FULL FLOW CROSS,5555X,5" BW SCH.XXS	5,000 (345)	515
417035	FULL FLOW CROSS,5555X,5" BW SCH.XXS	7,500 (517)	515
415053	GOOSENECK 160° W/TOP OUTLET,555GTO,5" BW SCH.160	5,000 (345)	220
★ 415054	GOOSENECK 160° W/TOP OUTLET,555GTO,5" BW SCH.XXS	5,000 (345)	220
417055	GOOSENECK 160° W/TOP OUTLET,555GTO,5" BW SCH.XXS	7,500 (517)	220
4 5 415033	GOOSENECK 160°,55G6,5" BW SCH.160	5,000 (345)	200
1 415034	GOOSENECK 160°,55G6,5" BW SCH.XXS	5,000 (345)	200
415043	GOOSENECK 180°,55G8,5" BW SCH.160	5,000 (345)	220
1 415044	GOOSENECK 180°,55G8,5" BW SCH.XXS	5,000 (345)	220
4 5 415083	LONG SWEEP ELL W/2" TOP OUTLET,525L90,5" BW SCH.160	5,000 (345)	140
1 415084	LONG SWEEP ELL W/2" TOP OUTLET,525L90,5" BW SCH.XXS	5,000 (345)	140
415073	LONG SWEEP ELL,55L45,5" BW SCH.160	5,000 (345)	74
415074	LONG SWEEP ELL,55L45,5" BW SCH.XXS	5,000 (345)	74
417045	LONG SWEEP ELL,55L45,5" BW SCH.XXS	7,500 (517)	74
415063	LONG SWEEP ELL,55L90,5" BW SCH.160	5,000 (345)	116
415064	LONG SWEEP ELL,55L90,5" BW SCH.XXS	5,000 (345)	116
417005	LONG SWEEP ELL,55L90,5" BW SCH.XXS	7,500 (517)	116
415013	LONG SWEEP FULL FLOW TEE,555T,5" BW SCH.160	5,000 (345)	200
415014	LONG SWEEP FULL FLOW TEE,555T,5" BW SCH.XXS	5,000 (345)	200
417025	LONG SWEEP FULL FLOW TEE,555T,5" BW SCH.XXS	7,500 (517)	200
415023	LONG SWEEP TEE,555LST,5" BW SCH.160	5,000 (345)	161
415024	LONG SWEEP TEE,555LST,5" BW SCH.XXS	5,000 (345)	161
417015	LONG SWEEP TEE,555LST,5" BW SCH.XXS	7,500 (517)	161

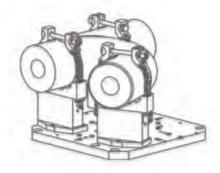
Note: Sour gas service available.

5K Castings are made from ASTM A216 Grade WCC.

7.5K Castings are made from ASTM A487 Grade 4D Modified.

Special end connections available upon request.





Most manifold fittings are machined to exceptional tolerances using single chucking on horizontal machining centers.

Buttweld and screwed API line pipe connections are available in 2 inch, 3 inch and 4 inch sizes. Five inch and six inch are available with buttweld connections.

Special end connections such as socketweld and metric values available upon request.

All fittings are hydrostatically tested to a minimum of 1-1/2 times working pressure.

See chart below for values.

MAXIMUM WORKING & TEST PRESSURES FOR FITTINGS PSI (BAR)

NOMINAL PIPE SIZE	SCH. 40		SCH. 80		SCH. 120		SCH. 160		SCH. XXS	
	W.P.	T.P.	W.P.	T.P.	W.P.	T.P.	W.P.	T.P.	W.P.	T.P.
2"	2,000	4,000	3,000	6,000		7.2	5,000	7,500	5,000	10,000
	(138)	(276)	(207)	(414)			(345)	(517)	(345)	(689)
3"	2,000	4,000	3,000	6,000			5,000	7,500	5,000	10,000
	(138)	(276)	(207)	(414)			(345)	(517)	(345)	(689)
4"	2,000	3,000	3,000	4,500	4,000	6,000	5,000	7,500	5,000	10,000
	(138)	(207)	(207)	(310)	(276)	(414)	(345)	(517)	(345)	(689)
5"	2,000	3,000	3,000	4,500	4,000	6,000	5,000	7,500	5,000	10,000
	(138)	(207)	(207)	(310)	(276)	(414)	(345)	(517)	(345)	(689)
5" 7.5K	177								7,500	11,250
									(517)	(776)

A.P.I. L.P.T.	2"	3"	4"	5"	
W.P.	5,000 (345)	3,000 (207)	3,000 (207)	N/A	
T.P.	10,000 (689)	6,000 (414)	6,000 (414)	N/A	

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