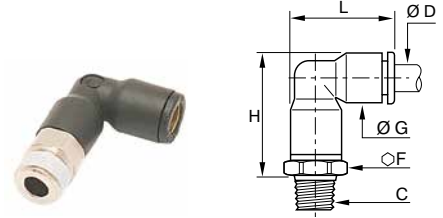


3199 Male Elbow Metric Tube to BSPP or Metric

PART NO.	D MM	C BSPP/ METRIC	E MM	F MM	G MM	H MM	L MM
3199 03 09	3	M3X0.5	2.5	8	8.5	15	14.5
3199 03 19	3	M5X0.8	3.5	8	8.5	13.5	14.5
3199 04 09	4	M3X0.5	2.5	8	8.5	15	14.5
3199 04 19	4	M5X0.8	3.5	8	8.5	13.5	14
3199 04 55	4	M7X1	4.5	10	8.5	15	14
3199 04 10	4	G1/8	5	13	8.5	13	14
3199 04 13	4	G1/4	5.5	16	8.5	13	14
3199 06 19	6	M5X0.8	3.5	8	10.5	15.5	16
3199 06 55	6	M7X1	4.5	10	10.5	17.5	16
3199 06 60	6	M10X1	5	13	10.5	15	14
3199 06 67	6	M12X1.5	5.5	15	10.5	15	16
3199 06 10	6	G1/8	5	13	10.5	15	16
3199 06 13	6	G1/4	5.5	16	10.5	15	16
3199 06 17	6	G3/8	5.5	20	10.5	15.5	16
3199 06 21	6	G1/2	7	24	10.5	16	16
3199 08 60	8	M10X1	5	13	13.5	20.5	23
3199 08 67	8	M12X1.5	5.5	15	13.5	19.5	23
3199 08 10	8	G1/8	4.5	13	13.5	20.5	23
3199 08 13	8	G1/4	5.5	16	13.5	18.5	23
3199 08 17	8	G3/8	5.5	20	13.5	18.5	23
3199 08 21	8	G1/2	7	24	13.5	19	23
3199 10 13	10	G1/4	5.5	16	16	23.5	26.5
3199 10 17	10	G3/8	5.5	20	16	22	26.5
3199 10 21	10	G1/2	7.5	24	16	22	26.5
3199 12 13	12	G1/4	5.5	16	19	26.5	31
3199 12 17	12	G3/8	5.5	20	19	25	31
3199 12 21	12	G1/2	7	24	19	25	31
3199 14 17	14	G3/8	5.5	20	22	32.5	35.5
3199 14 21	14	G1/2	7	24	22	27	35.5
3199 16 17	16	G3/8	7.5	27	27	54.5	39
3199 16 21	16	G1/2	9	27	27	54.5	39

We recommend the use of an extra-flat wrench.

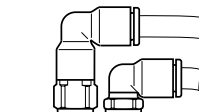


3129 Extended Male Elbow Fractional Inch Tube to Male NPT

PART NO.	Ø D IN	C NPT	F MM	G IN	H IN	L IN
3129 53 11	1/8	1/8	11	.33	.91	.75
3129 53 14	1/8	1/4	14	.33	.93	.75
3129 04 11	5/32	1/8	11	.33	.91	.75
3129 04 14	5/32	1/4	14	.33	.93	.75
3129 56 11	1/4	1/8	11	.43	1.12	.93
3129 56 14	1/4	1/4	14	.43	1.08	.93
3129 56 18	1/4	3/8	17	.43	1.12	.93
3129 08 11	5/16	1/8	13	.53	1.32	1.16
3129 08 14	5/16	1/4	14	.53	1.28	1.16
3129 60 11	3/8	1/8	17	.63	1.40	1.34
3129 60 14	3/8	1/4	17	.63	1.41	1.33
3129 60 18	3/8	3/8	18	.63	1.45	1.33

3129 Extended Male Elbow Metric Tube to Male BSPT

PART NO.	Ø D MM	C BSPT	E MM	F MM	H MM	L MM
3129 04 10	4	R1/8	10	8.5	23	19
3129 04 13	4	R1/4	14	8.5	23.5	19
3129 06 10	6	R1/8	10	10.5	27	22.5
3129 06 13	6	R1/4	14	10.5	27.5	22.5
3129 08 10	8	R1/8	13	13.5	34.5	29.5
3129 08 13	8	R1/4	14	13.5	32.5	29.5
3129 08 17	8	R3/8	17	13.5	33	29.5
3129 10 13	10	R1/4	15	16	39.5	34.5
3129 10 17	10	R3/8	17	16	39.5	34.5
3129 10 21	10	R1/2	21	16	39.5	34.5
3129 12 13	12	R1/4	19	19	45.5	40.5
3129 12 17	12	R3/8	19	19	45.5	40.5
3129 12 21	12	R1/2	21	19	45.5	40.5
3129 14 17	14	R3/8	21	22	51.5	46.5
3129 14 21	14	R1/2	21	22	51.5	46.5



3129 is designed to allow very close assembly with 3109 male elbow.