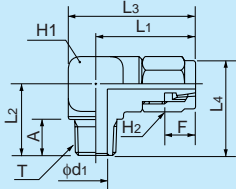


90 degree elbow



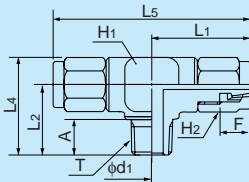
●Millimeter size type

Product number	Applicable tube outer-inner diameters (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	A (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
CS-L6×4-R1/8	6×4	R1/8	23.5	18.0	30.5	25.0	9.0	7	14.0	12.0	5.0	3.0	6.0	40.0
CS-L6×4-R1/4	6×4	R1/4	23.5	23.0	30.5	30.0	14.0	7	14.0	12.0	7.0	3.0	6.0	44.0
CS-L6×4-R3/8	6×4	R3/8	26.0	26.0	35.5	35.5	14.0	7	19.0	12.0	9.0	3.0	6.0	87.0
CS-L8×6-R1/8	8×6	R1/8	25.0	19.0	32.0	27.0	9.0	7.5	14.0	14.0	5.0	5.0	14.0	45.0
CS-L8×6-R1/4	8×6	R1/4	25.0	23.0	32.0	32.0	14.0	7.5	14.0	14.0	7.0	5.0	15.5	48.0
CS-L8×6-R3/8	8×6	R3/8	27.5	26.0	37.0	35.5	14.0	7.5	19.0	14.0	9.0	5.0	16.0	91.0
CS-L10×8-R1/4	10×8	R1/4	29.0	26.0	38.5	36.0	14.0	8.5	19.0	17.0	7.0	6.5	25.0	94.0
CS-L10×8-R3/8	10×8	R3/8	29.0	26.0	38.5	36.0	14.0	8.5	19.0	17.0	9.0	6.5	27.5	98.0
CS-L10×8-R1/2	10×8	R1/2	30.5	30.0	41.5	40.0	18.0	8.5	22.0	17.0	12.0	6.5	28.0	137.0
CS-L12×9-R1/4	12×9	R1/4	31.0	26.0	40.5	37.0	14.0	10	19.0	19.0	7.0	7.0	30.5	100.0
CS-L12×9-R3/8	12×9	R3/8	31.0	26.0	40.5	37.0	14.0	10	19.0	19.0	9.0	7.5	35.5	104.0
CS-L12×9-R1/2	12×9	R1/2	32.5	30.0	43.5	41.0	18.0	10	22.0	19.0	12.0	7.5	37.0	143.0
CS-L12×10-R1/4	12×10	R1/4	31.0	26.0	40.5	37.0	14.0	10	19.0	19.0	7.0	7.0	33.0	98.0
CS-L12×10-R3/8	12×10	R3/8	31.0	26.0	40.5	37.0	14.0	10	19.0	19.0	9.0	8.5	43.0	101.0
CS-L12×10-R1/2	12×10	R1/2	32.5	30.0	43.5	41.0	18.0	10	22.0	19.0	12.0	8.5	47.0	140.0
CS-L19×16-R1/2	19×16	R1/2	37.5	33.5	50.5	49.0	18.0	12.5	26.0	27.0	12.0	12.0	—	—

●Inch size type

Product number	Applicable tube outer-inner diameters (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	A (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
CS-L1/4-R1/8	6.35×4.75	R1/8	23.5	18.0	30.5	25.0	9.0	7	14.0	12.0	5.0	3.5	7.5	40.0
CS-L1/4-R1/4	6.35×4.75	R1/4	23.5	23.0	30.5	30.0	14.0	7	14.0	12.0	7.0	3.5	7.5	44.0
CS-L1/4-R3/8	6.35×4.75	R3/8	25.5	26.0	35.0	35.5	14.0	6.5	19.0	12.0	9.0	3.5	—	—
CS-L3/8-R1/4	9.53×6.99	R1/4	29.0	26.0	38.5	36.0	14.0	8.5	19.0	17.0	7.0	5.8	20.5	95.0
CS-L3/8-R3/8	9.53×6.99	R3/8	29.0	26.0	38.5	36.0	14.0	8.5	19.0	17.0	9.0	5.8	22.0	99.0
CS-L3/8-R1/2	9.53×6.99	R1/2	31.0	30.0	42.0	41.0	18.0	9	22.0	17.0	12.0	5.8	—	—
CS-L1/2-R1/4	12.70×9.56	R1/4	31.5	29.0	41.0	38.5	14.0	10.5	19.0	22.0	7.0	7.0	—	—
CS-L1/2-R3/8	12.70×9.56	R3/8	32.0	29.0	41.5	42.0	14.0	10.5	19.0	22.0	9.0	8.2	41.0	110.0
CS-L1/2-R1/2	12.70×9.56	R1/2	33.5	30.5	44.5	43.0	18.0	10.5	22.0	22.0	12.0	8.2	43.0	148.0

Tee



●Millimeter size type

Product number	Applicable tube outer-inner diameters (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	A (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
CS-T6×4-R1/8	6×4	R1/8	23.5	18.0	25.0	47.0	9.0	7	14.0	12.0	5.0	3.0	6.0	54.0
CS-T6×4-R1/4	6×4	R1/4	23.5	23.0	30.0	47.0	14.0	7	14.0	12.0	7.0	3.0	6.0	58.0
CS-T6×4-R3/8	6×4	R3/8	26.0	26.0	35.5	52.0	14.0	7	19.0	12.0	9.0	3.0	6.0	105.0
CS-T8×6-R1/8	8×6	R1/8	25.0	19.0	27.0	50.0	9.0	7.5	14.0	14.0	5.0	5.0	14.0	62.0
CS-T8×6-R1/4	8×6	R1/4	25.0	23.0	32.0	50.0	14.0	7.5	14.0	14.0	7.0	5.0	15.5	65.0
CS-T8×6-R3/8	8×6	R3/8	27.5	26.0	35.5	55.0	14.0	7.5	19.0	14.0	9.0	5.0	16.0	112.0
CS-T10×8-R1/4	10×8	R1/4	29.0	26.0	36.0	58.0	14.0	8.5	19.0	17.0	7.0	6.5	25.0	123.0
CS-T10×8-R3/8	10×8	R3/8	29.0	26.0	36.0	58.0	14.0	8.5	19.0	17.0	9.0	6.5	27.5	126.0
CS-L10×8-R1/2	10×8	R1/2	30.5	30.0	41.0	61.0	18.0	8.5	22.0	17.0	12.0	6.5	28.0	168.0
CS-T12×9-R1/4	12×9	R1/4	31.0	26.0	37.0	62.0	14.0	10	19.0	19.0	7.0	7.0	30.5	134.0
CS-T12×9-R3/8	12×9	R3/8	31.0	26.0	37.0	62.0	14.0	10	19.0	19.0	9.0	7.5	35.5	138.0
CS-T12×9-R1/2	12×9	R1/2	32.5	30.0	41.0	65.0	18.0	10	22.0	19.0	12.0	7.5	37.0	180.0
CS-T12×10-R1/4	12×10	R1/4	31.0	26.0	37.0	62.0	14.0	9.0	19.0	19.0	7.0	7.0	33.0	130.0
CS-T12×10-R3/8	12×10	R3/8	31.0	26.0	37.0	62.0	14.0	9.0	19.0	19.0	9.0	8.5	43.0	133.0
CS-T12×10-R1/2	12×10	R1/2	32.5	30.0	41.0	65.0	18.0	9.0	22.0	19.0	12.0	8.5	47.0	174.0

●Inch size type

Product number	Applicable tube outer-inner diameters (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	A (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
CS-T1/4-R1/8	6.35×4.75	R1/8	23.5	18.0	25.0	47.0	9.0	7	14.0	12.0	5.0	3.5	7.5	53.0
CS-T1/4-R1/4	6.35×4.75	R1/4	23.5	23.0	30.0	47.0	14.0	7	14.0	12.0	7.0	3.5	7.5	57.0
CS-T1/4-R3/8	6.35×4.75	R3/8	25.5	26.0	35.5	51.0	14.0	6.5	19.0	12.0	9.0	3.5	—	—
CS-T3/8-R1/4	9.53×6.99	R1/4	29.0	26.0	36.0	58.0	14.0	8.5	19.0	17.0	7.0	5.8	20.5	124.0
CS-T3/8-R3/8	9.53×6.99	R3/8	29.0	26.0	36.0	58.0	14.0	8.5	19.0	17.0	9.0	5.8	22.0	128.0
CS-T3/8-R1/2	9.53×6.99	R1/2	31.0	30.0	41.0	62.0	18.0	9	22.0	17.0	12.0	5.8	—	—
CS-T1/2-R1/4	12.70×9.56	R1/4	31.5	29.0	38.5	63.0	14.0	10.5	19.0	22.0	7.0	7.0	—	—
CS-T1/2-R3/8	12.70×9.56	R3/8	32.0	29.0	42.0	64.0	14.0	10.5	19.0	22.0	9.0	8.2	41.0	140.0
CS-T1/2-R1/2	12.70×9.56	R1/2	33.5	30.5	43.0	67.0	18.0	10.5	22.0	22.0	12.0	8.2	43.0	189.0