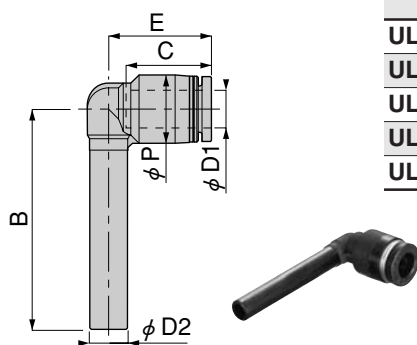


Dimensions (mm)

Long socket elbow

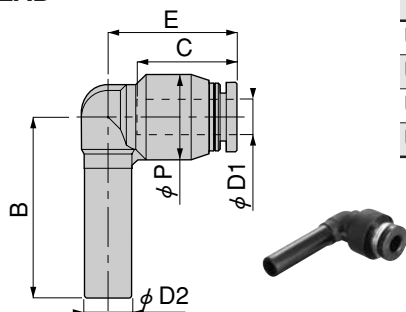
ULAL



Model	Tube outer diameter ϕ D1	Applicable fitting diameter ϕ D2	B	ϕ P	C	E	Effective area (mm ²)	Mass (g) [oz.]
ULAL4	4	4	36	10	14.9	16.8	3	2.8 [0.099]
ULAL6	6	6	42.1	12.5	17	19.8	7.5	4.2 [0.148]
ULAL8	8	8	46.8	14.5	18.2	21.8	16	6.2 [0.219]
ULAL10	10	10	51.8	17.5	20.2	25	25	11 [0.39]
ULAL12	12	12	59.5	21	23.4	28.9	35.5	16 [0.56]

Different diameter socket elbow

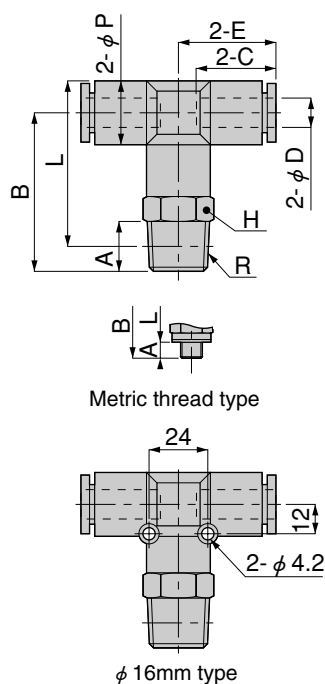
ULAD



Model	Tube outer diameter ϕ D1	Applicable fitting diameter ϕ D2	B	ϕ P	C	E	Effective area (mm ²)	Mass (g) [oz.]
ULAD6-4	4	6	28.5	12.5	14.9	17.7	4.5	3.6 [0.127]
ULAD8-6	6	8	30.8	14.5	17	21.9	9.5	5.2 [0.183]
ULAD10-8	8	10	33.8	17.5	18.2	24.7	18.5	8 [0.28]
ULAD12-10	10	12	39	21	20.2	28.7	29	14 [0.49]

Tee

TT



Model	Tube outer diameter ϕ D	R	A	B	L ^{Note}	ϕ P	C	E	Width across flats H	Effective area (mm ²)	Mass (g) [oz.]
TT4-M5	4	M5×0.8	3	20.3	22.3	10	14.9	16.9	10	1.5	11 [0.39]
TT4-M6		M6×1	4	21.3						4.1	
TT4-01		R1/8	8	23.3						23 [0.81]	
TT4-02		R1/4	11	26.3						23 [0.81]	
TT6-M5	6	M5×0.8	3	23	26.5	13	17	20.15	12	1.5	16 [0.56]
TT6-M6		M6×1	4	24						6.8	
TT6-01		R1/8	8	26						18 [0.63]	
TT6-02		R1/4	11	29						26 [0.92]	
TT6-03	8	R3/8	12	30.8	31	15	18.4	22.4	14	10	39 [1.38]
TT8-01		R1/8	8	26.3						16.5	
TT8-02		R1/4	11	29.3						29 [1.02]	
TT8-03		R3/8	12	31.1						42 [1.48]	
TT10-02	10	R1/4	11	36	38.7	17.5	20.2	25.2	17	30	42 [1.48]
TT10-03		R3/8	12	37						50 [1.76]	
TT10-04		R1/2	15	40						72 [2.54]	
TT12-02	12	R1/4	11	38	42.5	21	22.9	28.4	21	30	61 [2.15]
TT12-03		R3/8	12	39						47	
TT12-04		R1/2	15	42						78 [2.75]	
TT16-03	16	R3/8	11	47	53.2	25	24.1	33.1	22	80.1	93 [3.28]
TT16-04		R1/2	15	51						90.8	

Note: The L dimensions for the tapered thread type are the reference dimensions after the fittings are assembled.