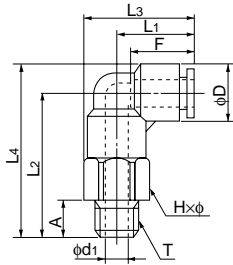
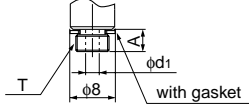


90 degree long elbow

●Millimeter size type



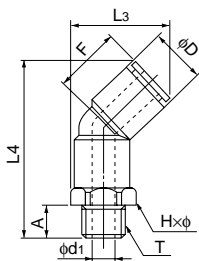
M thread



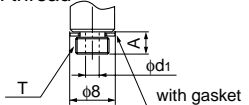
Product number	Applicable tube outer diameter (mm)	T Thread size (M,R)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	A (mm)	F Tube insertion length (mm)	H×φ Width across flat (mm)	D (mm)	d ₁ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
ALL4-M5	4	M5×0.8	17.2	29.9	22.7	34.8	4.0	13	10.0×11.0	9.8	2.0	2.0	3.0	13.0
ALL4-R1/8	4	R1/8	17.2	32.4	22.7	37.3	8.0	13	10.0×11.0	9.8	5.0	3.0	4.0	14.0
ALL4-R1/4	4	R1/4	17.2	36.4	24.9	41.3	11.0	13	14.0×15.4	9.8	7.0	3.0	4.0	27.0
ALL6-M5	6	M5×0.8	18.5	34.7	25.0	41.0	4.0	15	12.0×13.0	12.6	2.0	2.0	3.5	20.0
ALL6-R1/8	6	R1/8	18.5	37.2	25.0	43.5	8.0	15	12.0×13.0	12.6	5.0	5.0	12.0	22.0
ALL6-R1/4	6	R1/4	18.5	41.2	26.2	47.5	11.0	15	14.0×15.4	12.6	7.0	5.0	12.0	31.0
ALL6-R3/8	6	R3/8	18.5	42.2	27.8	48.5	12.0	15	17.0×18.5	12.6	9.0	5.0	12.0	45.0
ALL8-R1/8	8	R1/8	20.7	40.2	28.4	47.5	8.0	16	14.0×15.4	14.6	5.0	5.0	18.5	30.0
ALL8-R1/4	8	R1/4	20.7	44.2	28.4	51.5	11.0	16	14.0×15.4	14.6	7.0	7.0	23.0	35.0
ALL8-R3/8	8	R3/8	20.7	45.2	30.0	52.5	12.0	16	17.0×18.5	14.6	9.0	7.0	23.0	50.0
ALL10-R1/8	10	R1/8	24.7	46.2	33.9	55.0	8.0	19	17.0×18.5	17.5	5.0	5.0	22.0	48.0
ALL10-R1/4	10	R1/4	24.7	50.2	33.9	59.0	11.0	19	17.0×18.5	17.5	7.0	7.0	34.5	53.0
ALL10-R3/8	10	R3/8	24.7	51.2	33.9	60.0	12.0	19	17.0×18.5	17.5	9.0	9.0	37.0	59.0
ALL10-R1/2	10	R1/2	24.7	55.2	36.9	64.0	15.0	19	22.0×24.5	17.5	12.0	9.0	37.0	94.0
ALL12-R1/4	12	R1/4	26.3	55.2	36.8	65.2	11.0	20	19.0×21.0	20.0	7.0	7.0	36.0	72.0
ALL12-R3/8	12	R3/8	26.3	56.2	36.8	66.2	12.0	20	19.0×21.0	20.0	9.0	9.0	43.0	78.0
ALL12-R1/2	12	R1/2	26.3	60.2	38.6	70.2	15.0	20	22.0×24.5	20.0	12.0	10.0	43.0	105.0

45 degree elbow

●Millimeter size type



M thread



Product number	Applicable tube outer diameter (mm)	T Thread size (M,R)	L ₃ (mm)	L ₄ (mm)	A (mm)	F Tube insertion length (mm)	H×φ Width across flat (mm)	D (mm)	d ₁ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
A45L4-M5	4	M5×0.8	19.7	34.4	4.0	13	10.0×11.0	9.8	2.0	2.0	3.0	7.0
A45L4-R1/8	4	R1/8	19.7	36.9	8.0	13	10.0×11.0	9.8	5.0	3.0	4.0	9.0
A45L4-R1/4	4	R1/4	21.9	40.9	11.0	13	14.0×15.4	9.8	7.0	3.0	4.0	16.0
A45L6-M5	6	M5×0.8	22.4	38.6	4.0	15	12.0×13.0	12.6	2.0	2.0	3.5	10.0
A45L6-R1/8	6	R1/8	22.4	41.1	8.0	15	12.0×13.0	12.6	5.0	5.0	12.0	12.0
A45L6-R1/4	6	R1/4	23.6	45.1	11.0	15	14.0×15.4	12.6	7.0	5.0	12.0	18.0
A45L6-R3/8	6	R3/8	25.2	46.1	12.0	15	17.0×18.5	12.6	9.0	5.0	12.0	26.0
A45L8-R1/8	8	R1/8	25.5	44.0	8.0	16	14.0×15.4	14.6	5.0	5.0	18.5	15.0
A45L8-R1/4	8	R1/4	25.5	48.0	11.0	16	14.0×15.4	14.6	7.0	7.0	23.0	20.0
A45L8-R3/8	8	R3/8	27.0	49.0	12.0	16	17.0×18.5	14.6	9.0	7.0	23.0	28.0
A45L10-R1/8	10	R1/8	30.0	50.0	8.0	19	17.0×18.5	17.5	5.0	5.0	22.0	22.0
A45L10-R1/4	10	R1/4	30.0	54.0	11.0	19	17.0×18.5	17.5	7.0	7.0	34.5	27.0
A45L10-R3/8	10	R3/8	30.0	55.0	12.0	19	17.0×18.5	17.5	9.0	9.0	37.0	33.0
A45L10-R1/2	10	R1/2	33.0	59.0	15.0	19	22.0×24.5	17.5	12.0	9.0	38.5	52.0
A45L12-R1/4	12	R1/4	33.5	58.7	11.0	20	19.0×21.0	20.0	7.0	7.0	43.0	34.0
A45L12-R3/8	12	R3/8	33.5	59.7	12.0	20	19.0×21.0	20.0	9.0	9.0	47.0	40.0
A45L12-R1/2	12	R1/2	35.3	63.7	15.0	20	22.0×24.5	20.0	12.0	10.0	47.0	57.0