











<http://www.koganei.co.jp>

QUICK FITTINGS (Smart type) NEW AND IMPROVED

25% lighter (average weight reduction)
Tightening Torque Improvement
Tapered threads used for all quick fittings
Fitting mechanism unchanged

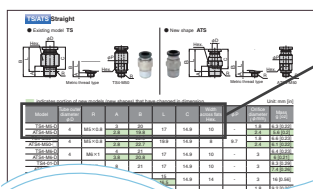


List of targeted models (the following is a list of the existing models) ★ Mini types are not targeted. On sale April 1, 2015

TS	TSH	TSM	UK	UKM	TL	TLL	TT	TB	TBY
Straight 	Straight with hexagon socket 	Female straight 	Union for bulkhead 	Female union for bulkhead 	Elbow 	Long elbow 	Tee 	Branch tee 	Branch Y 
TS4-M5	TSH4-M5	TSM4-01	UK4	UKM4-01	TL4-M5	TLL4-M5	TT4-M5	TB4-M5	TBY4-M5
TS4-M50	TSH4-M6	TSM4-02	UK6	UKM6-01	TL4-M6	TLL4-01	TT4-M6	TB4-M6	TBY4-01
TS4-M6	TSH4-01	TSM6-01	UK8	UKM6-02	TL4-01	TLL6-01	TT4-01	TB4-01	TBY4-02
TS4-01	TSH6-M5	TSM6-02	UK10	UKM8-01	TL4-02	TLL6-02	TT4-02	TB4-02	TBY6-M5
TS4-02	TSH6-M6	TSM8-01	UK12	UKM8-02	TL6-M5	TLL6-03	TT6-M5	TB6-M5	TBY6-M6
TS6-M5	TSH6-01	TSM8-02		UKM8-03	TL6-M6	TLL8-01	TT6-M6	TB6-M6	TBY6-01
TS6-M6	TSH6-02	TSM8-03		UKM10-02	TL6-01	TLL8-02	TT6-01	TB6-01	TBY6-02
TS6-01	TSH8-01	TSM10-02		UKM10-03	TL6-02	TLL8-03	TT6-02	TB6-02	TBY6-03
TS6-02	TSH8-02	TSM10-03		UKM12-03	TL6-03	TLL10-02	TT6-03	TB6-03	TBY8-01
TS6-03	TSH8-03	TSM12-02		UKM12-04	TL8-01	TLL10-03	TT8-01	TB8-01	TBY8-02
TS8-01	TSH10-02	TSM12-03			TL8-02	TLL10-04	TT8-02	TB8-02	TBY8-03
TS8-02	TSH10-03				TL8-03	TLL12-02	TT8-03	TB8-03	TBY10-02
TS8-03	TSH10-04				TL10-01	TLL12-03	TT10-02	TB10-02	TBY10-03
TS10-01	TSH12-03				TL10-02	TLL12-04	TT10-03	TB10-03	TBY10-04
TS10-02	TSH12-04				TL10-03		TT10-04	TB10-04	TBY12-02
TS10-03					TL10-04		TT12-02	TB12-02	TBY12-03
TS10-04					TL12-02		TT12-03	TB12-03	TBY12-04
TS12-02					TL12-03		TT12-04	TB12-04	
TS12-03					TL12-04				
TS12-04									
TS16-03									
TS16-04									

How to read tables comparing differences in external dimensions of old and new models

★ New models have an A at the front of their model numbers.



Model	Tube outer diameter φD	R	A	B	L	C	Width across flats Hex.
TS4-M5-D	4	M5×0.8	3	20	17	14.9	10
ATS4-M5-D	4	M5×0.8	2.8	19.8	17	14.9	10

Bottom one is new model number.

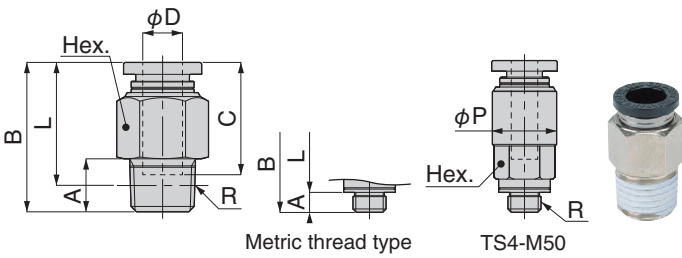
- ① : When there is no change in dimensions between the old and new shapes.
- ② : When there is a change in dimensions between the old and new shapes.

Top: Existing model, Bottom: New shape

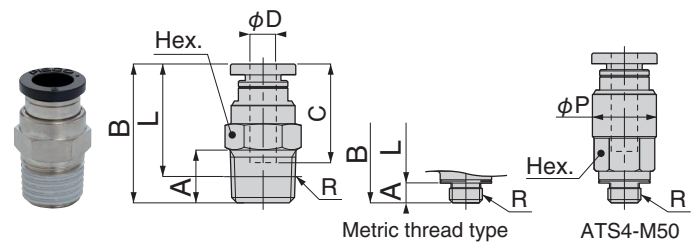
▶ See following pages for details.

TS/ATS Straight

● Existing model TS



● New model ATS



■ indicates portion of new models (new shapes) that have changed in dimension.

Unit: mm

Model	Tube outer diameter ϕD	R	A	B	L	C	Width across flats Hex.	ϕP	Orifice diameter (ϕ mm)	Mass g [oz]
TS4-M5-D	4	M5×0.8	3	20	17	14.9	10	-	1.8	6.3 [0.22]
ATS4-M5-D			2.8	19.8					2.4	5.6 [0.2]
TS4-M50-□	4	M5×0.8	3	22.9	19.9	14.9	8	9.7	1.8	6.6 [0.23]
ATS4-M50-□			2.8	22.7					2.4	6.1 [0.22]
TS4-M6-D	4	M6×1	4	21	17	14.9	10	-	3	6.4 [0.23]
ATS4-M6-D			3.8	20.8					6	0.21
TS4-01-D	4	R1/8	8	21	17	14.9	10	-	3	8.3 [0.29]
ATS4-01-D			7.4	0.26						
TS4-02-□	4	R1/4	11	21	15	14.9	14	-	3	16 [0.56]
ATS4-02-□			22.5	16.5					3	16 [0.56]
TS6-M5-D	6	M5×0.8	3	22.1	19.1	17	12	-	1.8	9.2 [0.32]
ATS6-M5-D			2.8	21.9					2.4	8.1 [0.29]
TS6-M6-D	6	M6×1	4	23.1	19.1	17	12	-	3	9.4 [0.33]
ATS6-M6-D			3.8	22.9					8.5	0.3
TS6-01-D	6	R1/8	8	22.6	18.6	17	12	-	4.6	9.3 [0.33]
ATS6-01-D			22.3	18.3	5				8.2 [0.29]	
TS6-02-□	6	R1/4	11	24.6	18.5	17	14	-	4.6	18 [0.63]
ATS6-02-□			23.7	17.6	5				15 [0.53]	
TS6-03-□	6	R3/8	12	23.6	17.2	17	17	-	4.6	28 [0.99]
ATS6-03-□			24.5	18.1	5				28 [0.99]	
TS8-01-□	8	R1/8	8	27.9	23.9	18.2	14	-	6	16 [0.56]
ATS8-01-□			14	0.49						
TS8-02-□	8	R1/4	11	26.6	20.6	18.2	14	-	7	16 [0.56]
ATS8-02-□			14	0.49						
TS8-03-□	8	R3/8	12	23.9	17.6	18.2	17	-	7	24 [0.85]
ATS8-03-□			25.5	19.2	7				25 [0.88]	
TS10-01-□	10	R1/8	8	30.3	26.3	20.7	17	-	6	24 [0.85]
ATS10-01-□			21	0.74						
TS10-02-□	10	R1/4	11	29.8	23.8	20.7	17	-	8.5	21 [0.74]
ATS10-02-□			19	0.67						
TS10-03-□	10	R3/8	12	29.3	23	20.7	17	-	8.5	27 [0.95]
ATS10-03-□			9	24 [0.85]						
TS10-04-□	10	R1/2	15	30.3	22.1	20.7	21	-	8.5	50 [1.76]
ATS10-04-□			30.4	22.2	9				46 [1.62]	
TS12-02-□	12	R1/4	11	35.9	29.9	23.3	21	-	8.5	44 [1.55]
ATS12-02-□			37	1.31						
TS12-03-□	12	R3/8	12	31.9	25.6	23.3	21	-	11	36 [1.27]
ATS12-03-□			30	1.06						
TS12-04-□	12	R1/2	15	33.9	25.7	23.3	21	-	11	50 [1.76]
ATS12-04-□			44	1.55						
TS16-03-□	16	R3/8	12	39.3	33	24.8	24	-	11	58 [2.05]
ATS16-03-□			54	1.9						
TS16-04-□	16	R1/2	15	41.3	33.1	24.8	24	-	13	66 [2.33]
ATS16-04-□			63	2.22						

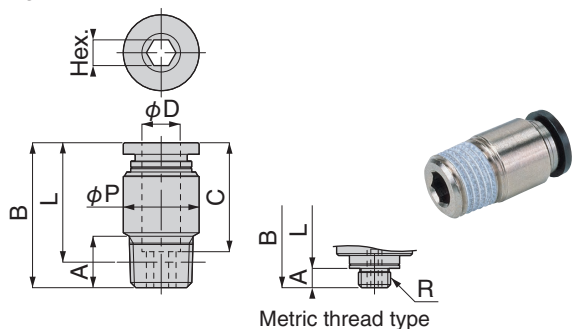
* -D ⇒ Non-lubricant specification only. -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

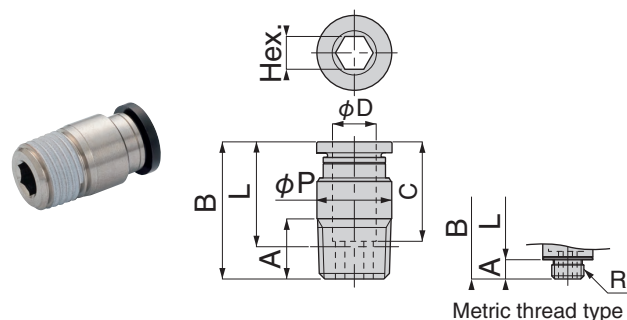
* Prices are the same.

TSH/ATSH Straight with hexagon socket

● Existing model TSH



● New model ATSH



Unit: mm

Model	Tube outer diameter φ D	R	A	B	L	C	Width across flats Hex.	φ P	Orifice diameter (φ mm)	Mass g [oz]
TSH4-M5-D	4	M5 × 0.8	3	19.9	16.9	14.9	2	9.7	2	5.6 [0.2]
ATSH4-M5-D			2.8	19.7			2.6		4.6 [0.16]	
TSH4-M6-D	4	M6 × 1	4	20.9	16.9	14.9	3	9.7	3.1	5.9 [0.21]
ATSH4-M6-D			3.8	20.7			2.6		5.4 [0.19]	
TSH4-01-D	4	R1/8	8	21	17	14.9	2.5	9.7	2.6	7.6 [0.27]
ATSH4-01-D				20	16					6.6 [0.23]
TSH6-M5-D	6	M5 × 0.8	3	23	20	17	2	11.8	2	8.5 [0.3]
ATSH6-M5-D			2.8	21.3			18.5		2.6	5.6 [0.2]
TSH6-M6-D	6	M6 × 1	4	22.5	18.5	17	3	11.8	3.2	6.9 [0.24]
ATSH6-M6-D			3.8	22.3						18.5
TSH6-01-D	6	R1/8	8	22.6	18.6	17	4	11.8	4.2	8.1 [0.29]
ATSH6-01-D				22.1	18.1					7.6 [0.27]
TSH6-02-□	6	R1/4	11	22.6	16.5	17	4	14	4.2	15 [0.53]
ATSH6-02-□				21.3	15.2			13.7		13 [0.46]
TSH8-01-□	8	R1/8	8	27.9	23.9	18.2	5	13.7	5.3	14 [0.49]
ATSH8-01-□				25.9	21.9					8.8 [0.31]
TSH8-02-□	8	R1/4	11	26.6	20.6	18.2	6	13.7	6.3	15 [0.53]
ATSH8-02-□				25.1	19.1					13 [0.46]
TSH8-03-□	8	R3/8	12	23.9	17.6	18.2	6	16.8	6.3	23 [0.81]
ATSH8-03-□				22.2	15.9					19 [0.67]
TSH10-02-□	10	R1/4	11	29.8	23.8	20.7	6	17.7	6.3	23 [0.81]
ATSH10-02-□								17.5		20 [0.71]
TSH10-03-□	10	R3/8	12	29.3	23	20.7	6	17.7	6.3	28 [0.99]
ATSH10-03-□								17.5		26 [0.92]
TSH10-04-□	10	R1/2	15	30.3	22.1	20.7	6	20.8	6.3	49 [1.73]
ATSH10-04-□										45 [1.59]
TSH12-03-□	12	R3/8	12	31.9	25.6	23.3	8	20.8	8.4	34 [1.2]
ATSH12-03-□										31 [1.09]
TSH12-04-□	12	R1/2	15	33.9	25.7	23.3	8	20.8	8.4	49 [1.73]
ATSH12-04-□										45 [1.59]

Changed width across flats of inner diameter of hex nut and diameter of orifice to correct the problem of lock hook interference with hex wrench.

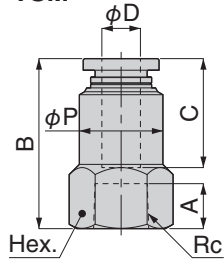
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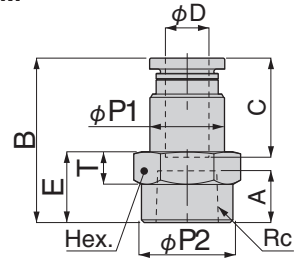
* Prices are the same.

TSM/ATSM Female straight

● Existing model **TSM**



● New model **ATSM**



Unit: mm

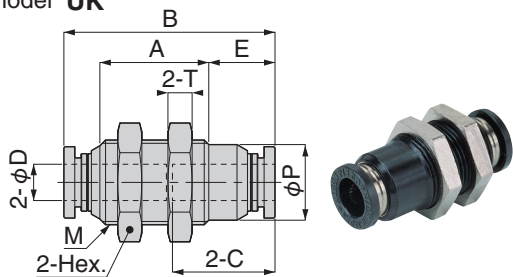
Model	Tube outer diameter ϕD	Rc	A	B	E	$\phi P1$	$\phi P2$	C	Width across flats Hex.	T	Orifice diameter (ϕ mm)	Mass g [oz]
TSM4-01-□	4	Rc1/8	7	24.4	-	11	-	14.9	14	-	3	16 [0.56]
ATSM4-01-□				23.9	10	9.7	13.8			13 [0.46]		
TSM4-02-□	4	Rc1/4	9.5	27.4	-	12	-	14.9	17	-	3	24 [0.85]
ATSM4-02-□				26.9	13	9.7	16.8			19 [0.67]		
TSM6-01-□	6	Rc1/8	7	26.5	-	13	-	17	14	-	4.6	18 [0.63]
ATSM6-01-□				26	10	11.8	13.8			5	5	15 [0.53]
TSM6-02-□	6	Rc1/4	9.5	29.5	-	13	-	17	17	-	4.6	25 [0.88]
ATSM6-02-□				29	13	11.8	16.8			6	5	21 [0.74]
TSM8-01-□	8	Rc1/8	7	28	-	14.5	-	18.2	14	-	6	20 [0.71]
ATSM8-01-□				27.2	10	13.7	13.8			5	7	16 [0.56]
TSM8-02-□	8	Rc1/4	9.5	31	-	15	-	18.2	17	-	6	27 [0.95]
ATSM8-02-□				30.2	13	13.7	16.8			6	7	22 [0.78]
TSM8-03-□	8	Rc3/8	10.5	32	-	15.5	-	18.2	21	-	6	37 [1.31]
ATSM8-03-□				31.2	14	13.7	20.8			6.5	7	30 [1.06]
TSM10-02-□	10	Rc1/4	9.5	33.7	-	17.5	-	20.7	17	-	8.5	33 [1.16]
ATSM10-02-□				32.7	13	17.5	16.8			6	9	28 [0.99]
TSM10-03-□	10	Rc3/8	10.5	34.7	-	17.5	-	20.7	21	-	8.5	42 [1.48]
ATSM10-03-□				33.7	14	17.5	20.8			6.5	9	37 [1.31]
TSM12-02-□	12	Rc1/4	9.5	35.8	-	20.8	-	23.3	21	-	11	57 [2.01]
ATSM12-02-□				34.8	13.5	20.8	16.8			6.5	11	42 [1.48]
TSM12-03-□	12	Rc3/8	10.5	36.8	-	20.8	-	23.3	21	-	11	51 [1.8]
ATSM12-03-□				36.3	14	20.8	20.8			6.5	11	44 [1.55]

* -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

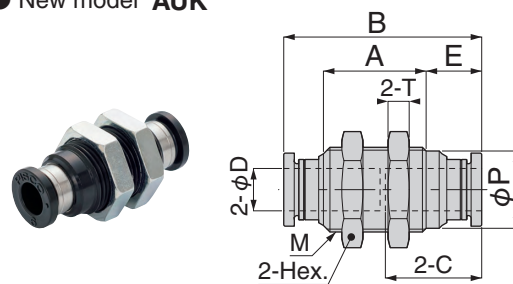
* Prices are the same.

UK/AUK Union for bulkhead

● Existing model **UK**



● New model **AUK**



Unit: mm

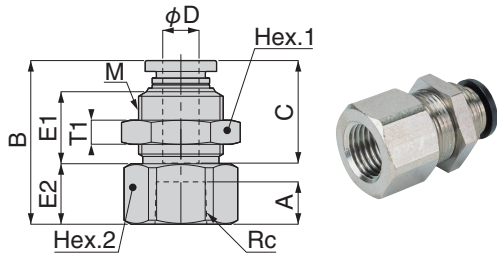
Model	Tube outer diameter ϕD	M	B	E	A	ϕP	C	Width across flats Hex.	T	Orifice diameter (ϕ mm)	Mass g [oz]
UK4-D	4	M12×1	30.8	10.4	15	10.8	14.9	14	4	3	11 [0.39]
AUK4-D				9.5	14.8						
UK6-D	6	M14×1	34.9	11	18	12.5	17	17	4	4.6	16 [0.56]
AUK6-D				9.5	19					5	
UK8-□	8	M16×1	37.4	14.3	16.8	14.6	18.2	19	4	6	20 [0.71]
AUK8-□				10.5	19.4					7	19 [0.67]
UK10-□	10	M20×1	42.4	12.7	23	18.5	20.7	24	5	8	39 [1.38]
AUK10-□				11.9	21.6					9	35 [1.23]
UK12-□	12	M22×1	47.6	12.3	29	20.4	23.3	27	6	11	57 [2.01]
AUK12-□				13.2	24.2					11	52 [1.83]

* -D ⇒ Non-lubricant specification only. -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

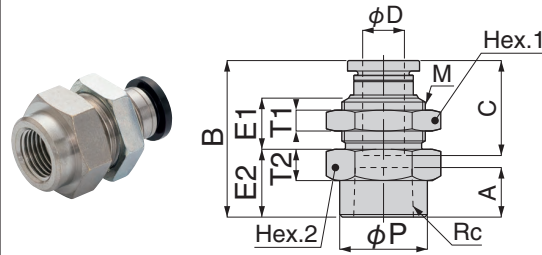
* Prices are the same.

UKM/AUKM Female union for bulkhead

● Existing model **UKM**



● New model **AUKM**



Unit: mm

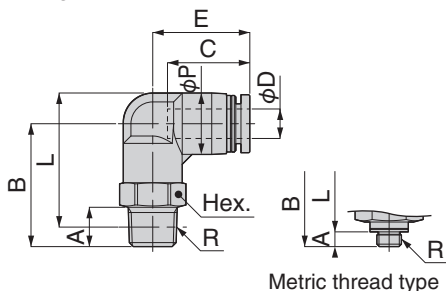
Model	Tube outer diameter ϕD	Rc	M	B	E1	E2	A	C	ϕP	Width across flats Hex.1	Width across flats Hex.2	T1	T2	Orifice diameter (ϕ mm)	Mass g [oz]
UKM4-01-□	4	Rc1/8	M12×1	24.5	9.9	10	7	14.9	-	14	14	4	-	3	19 [0.67]
AUKM4-01-□				24.2	9	9			13.8				5		17 [0.6]
UKM6-01-□	6	Rc1/8	M14×1	27.1	11.9	10	7	17	-	17	17	4	-	4.6	29 [1.02]
AUKM6-01-□				26.4	10.2	13.8			6				5		25 [0.88]
UKM6-02-□	6	Rc1/4	M14×1	30.1	11.9	13	9.5	17	-	17	17	4	-	4.6	29 [1.02]
AUKM6-02-□				28.7	10.2	12.3			16.8				6		5
UKM8-01-□	8	Rc1/8	M16×1	29	13.5	10	7	18.2	-	19	19	4	-	6	39 [1.38]
AUKM8-01-□				27	9.8	13.8			6				7		30 [1.06]
UKM8-02-□	8	Rc1/4	M16×1	32	13.5	13	9.5	18.2	-	19	19	4	-	6	41 [1.45]
AUKM8-02-□				30	9.8	16.8			6				7		32 [1.13]
UKM8-03-□	8	Rc3/8	M16×1	33	13.5	14	10.5	18.2	-	19	19	4	-	6	35 [1.23]
AUKM8-03-□				31	9.8	19.5			6				7		30 [1.06]
UKM10-02-□	10	Rc1/4	M20×1	34.8	14.9	14	9.5	20.7	-	24	24	5	-	8.5	78 [2.75]
AUKM10-02-□				32.7	11.1	13			16.8				7		9
UKM10-03-□	10	Rc3/8	M20×1	35.8	14.9	15	10.5	20.7	-	24	24	5	-	8.5	73 [2.57]
AUKM10-03-□				33.7	11.1	14			20.8				7		9
UKM12-03-□	12	Rc3/8	M22×1	38.9	18.4	15	10.5	23.3	-	27	24	6	-	11	86 [3.03]
AUKM12-03-□				36.3	12.4	14			20.8				7		11
UKM12-04-□	12	Rc1/2	M22×1	41.9	18.4	18	13	23.3	-	27	24	6	-	11	80 [2.82]
AUKM12-04-□				39.3	12.4	17			25				7		11

* -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

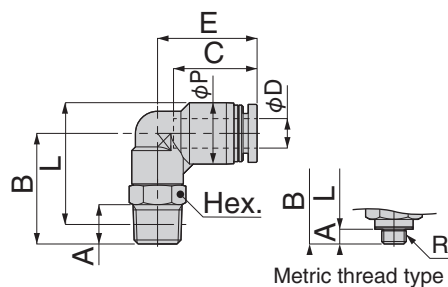
* Prices are the same.

TL/ATL Elbow

● Existing model **TL**



● New model **ATL**



Unit: mm

Model	Tube outer diameter ϕ D	R	A	B	L	ϕ P	C	E	Width across flats Hex.	Orifice diameter (ϕ mm)	Mass g [oz]
TL4-M5-D	4	M5×0.8	3	20.3	22.3	10	14.9	18	10	1.8	8 [0.28]
ATL4-M5-D			2.8	16	18.2			17.7	8	2.4	5.7 [0.2]
TL4-M6-D	4	M6×1	4	21.3	22.3	10	14.9	18	10	2.4	8.3 [0.29]
ATL4-M6-D			3.8	20	21.2			18.7			8 [0.28]
TL4-01-D	4	R1/8	8	23.3	24.3	10	14.9	18	10	2.8	11 [0.39]
ATL4-01-D				22	23			18.7			10 [0.35]
TL4-02-□	4	R1/4	11	26.3	25.3	10	14.9	18	14	2.8	21 [0.74]
ATL4-02-□				29	28			20.7			18 [0.63]
TL6-M5-D	6	M5×0.8	3	22	25.3	12.5	16.8	19.8	12	1.8	13 [0.46]
ATL6-M5-D			2.8	19.5	23		17	20.3	10	2.4	8.9 [0.31]
TL6-M6-D	6	M6×1	4	23	25.3	12.5	16.8	19.8	12	3	13 [0.46]
ATL6-M6-D			3.8	20.5	23		17	20.3	10		8 [0.28]
TL6-01-D	6	R1/8	8	25	27.3	12.5	16.8	19.8	12	4.3	14 [0.49]
ATL6-01-D				22.5	24.8		17	20.3	10		11 [0.39]
TL6-02-□	6	R1/4	11	28	28.2	12.5	16.8	19.8	14	4.3	22 [0.78]
ATL6-02-□							17	21.8			19 [0.67]
TL6-03-□	6	R3/8	12	29.8	29.7	12.5	16.8	19.8	17	4.3	35 [1.23]
ATL6-03-□				31.5	31.4		17	23.8			30 [1.06]
TL8-01-□	8	R1/8	8	28	31.3	14.5	18.1	22.7	14	6	19 [0.67]
ATL8-01-□				24	27.3				12		14 [0.49]
TL8-02-□	8	R1/4	11	31	32.2	14.5	18.1	22.7	14	6	24 [0.85]
ATL8-02-□				28	29.2			23.7		6.7	20 [0.71]
TL8-03-□	8	R3/8	12	32.8	33.7	14.5	18.1	22.7	17	6	37 [1.31]
ATL8-03-□				31	31.9			24.7		6.7	31 [1.09]
TL10-01-□	10	R1/8	8	33	37.8	17.5	20.2	26.2	17	6	31 [1.09]
ATL10-01-□				25	29.8			25.5	12		18 [0.63]
TL10-02-□	10	R1/4	11	36	38.7	17.5	20.2	26.2	17	8	34 [1.2]
ATL10-02-□				28.5	31.2			26	14		23 [0.81]
TL10-03-□	10	R3/8	12	37	39.4	17.5	20.2	26.2	17	8	43 [1.52]
ATL10-03-□				32	34.4			27		8.3	34 [1.2]
TL10-04-□	10	R1/2	15	40	40.6	17.5	20.2	26.2	21	8	65 [2.29]
ATL10-04-□				36	36.6			27.5		8.3	57 [2.01]
TL12-02-□	12	R1/4	11	38	42.5	21	23.4	29.4	21	8	51 [1.8]
ATL12-02-□				29.8	34.2			29	14		27 [0.95]
TL12-03-□	12	R3/8	12	39	43.2	21	23.4	29.4	21	10	52 [1.83]
ATL12-03-□				32.5	36.7			29.7	17		38 [1.34]
TL12-04-□	12	R1/2	15	42	44.3	21	23.4	29.4	21	10	67 [2.36]
ATL12-04-□				36.5	38.8			30.7		10.3	61 [2.15]

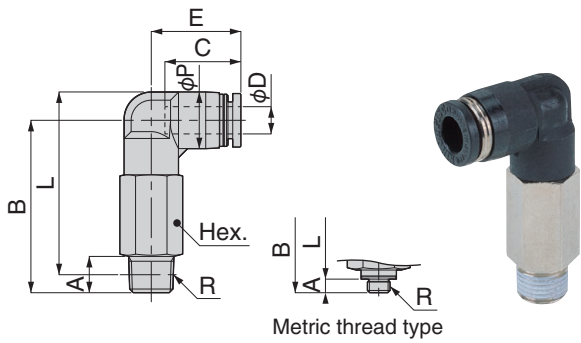
* -D ⇒ Non-lubricant specification only. -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

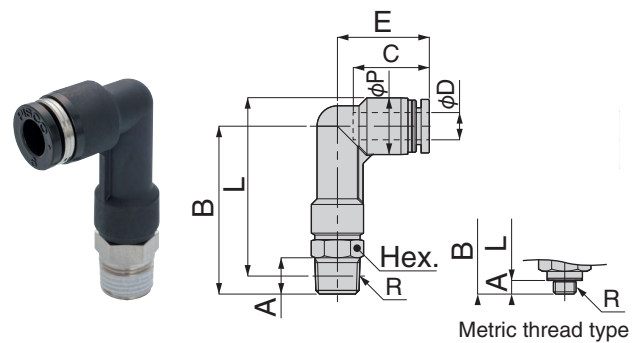
* Prices are the same.

TLL/ATLL Long elbow

● Existing model **TLL**



● New model **ATLL**



Unit: mm

Model	Tube outer diameter φ D	R	A	B	L	φ P	C	E	Width across flats Hex.	Orifice diameter (φ mm)	Mass g [oz]
TLL4-M5-D	4	M5×0.8	3	32.3	34.3	10	14.9	18	10	1.8	8.4 [0.3]
ATLL4-M5-D			2.8	28	30.2			18.7	8	2.4	6.4 [0.23]
TLL4-01-D	4	R1/8	8	35.3	36.3	10	14.9	18	10	2.8	17 [0.6]
ATLL4-01-D				34	35			18.7			11 [0.39]
TLL6-01-D	6	R1/8	8	38	40.3	12.5	16.8	19.8	12	4.3	26 [0.92]
ATLL6-01-D				37	39.3		17	20.3			10
TLL6-02-□	6	R1/4	11	41	41.2	12.5	16.8	19.8	14	4.3	39 [1.38]
ATLL6-02-□				42.5	42.7		17	21.8			20 [0.71]
TLL6-03-□	6	R3/8	12	43.3	43.2	12.5	16.8	19.8	17	4.3	62 [2.19]
ATLL6-03-□				46	45.9		17	23.8			33 [1.16]
TLL8-01-□	8	R1/8	8	43.5	46.8	14.5	18.1	22.7	14	6	37 [1.31]
ATLL8-01-□				40.5	43.8				12		16 [0.56]
TLL8-02-□	8	R1/4	11	46.5	47.7	14.5	18.1	22.7	14	6	43 [1.52]
ATLL8-02-□				44.5	45.7			23.7			6.7
TLL8-03-□	8	R3/8	12	48.3	49.2	14.5	18.1	22.7	17	6	66 [2.33]
ATLL8-03-□				47.5	48.4			24.7			6.7
TLL10-02-□	10	R1/4	11	54.5	57.2	17.5	20.2	26.2	17	8	65 [2.29]
ATLL10-02-□				48	50.7			26			14
TLL10-03-□	10	R3/8	12	55.5	57.9	17.5	20.2	26.2	17	8	74 [2.61]
ATLL10-03-□				51.5	53.9			27			8.3
TLL10-04-□	10	R1/2	15	60	60.6	17.5	20.2	26.2	21	8	121 [4.27]
ATLL10-04-□				55.5	56.1			27			8.3
TLL12-02-□	12	R1/4	11	60	64.5	21	23.4	29.4	21	8	112 [3.95]
ATLL12-02-□				52.8	57.2			29			14
TLL12-03-□	12	R3/8	12	61	65.2	21	23.4	29.4	21	10	107 [3.77]
ATLL12-03-□				55.5	59.7			29.7			17
TLL12-04-□	12	R1/2	15	64	66.3	21	23.4	29.4	21	10	123 [4.34]
ATLL12-04-□				59.5	61.8			29.7			10.3

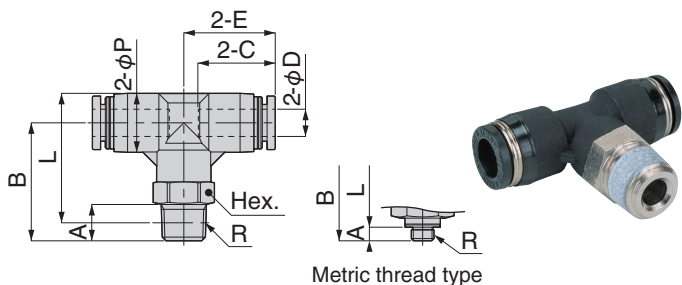
* -D ⇒ Non-lubricant specification only. -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

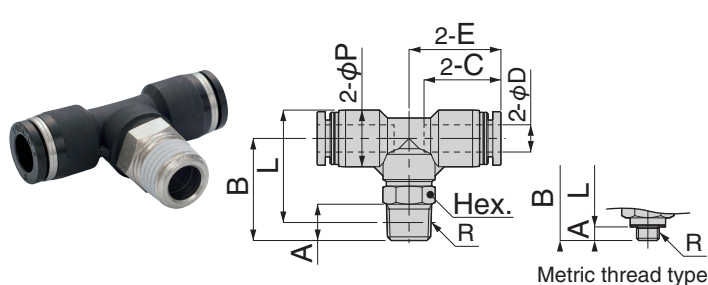
* Prices are the same.

TT/ATT Tee

● Existing model **TT**



● New model **ATT**



Unit: mm

Model	Tube outer diameter φD	R	A	B	L	φP	C	E	Width across flats Hex.	Orifice diameter (φ mm)	Mass g [oz]
TT4-M5-D	4	M5×0.8	3	20.2	22.2	10	14.9	16.9	10	1.8	11 [0.39]
ATT4-M5-D			2.8	16	18.2			17.7	8	2.4	8 [0.28]
TT4-M6-D	4	M6×1	4	21.2	22.2	10	14.9	16.9	10	2.4	11 [0.39]
ATT4-M6-D			3.8	20	21.2			18.7			
TT4-01-D	4	R1/8	8	23.2	24.2	10	14.9	16.9	10	2.8	14 [0.49]
ATT4-01-D			22	23	18.7			13 [0.46]			
TT4-02-□	4	R1/4	11	26.2	25.2	10	14.9	16.9	14	2.8	23 [0.81]
ATT4-02-□				29	28			20.7			20 [0.71]
TT6-M5-D	6	M5×0.8	3	23	26.5	13	17	20.15	12	1.8	16 [0.56]
ATT6-M5-D			2.8	19.5	23			12.5	20.25	10	2.4
TT6-M6-D	6	M6×1	4	24	26.5	13	17	20.15	12	3	16 [0.56]
ATT6-M6-D			3.8	20.5	23			12.5	20.25		10
TT6-01-D	6	R1/8	8	26	28.5	13	17	20.15	12	4.3	18 [0.63]
ATT6-01-D				22.5	24.8			12.5	20.25		10
TT6-02-□	6	R1/4	11	29	29.5	13	17	20.15	14	4.3	26 [0.92]
ATT6-02-□				28	28.2			12.5			21.75
TT6-03-□	6	R3/8	12	30.8	31	13	17	20.15	17	4.3	39 [1.38]
ATT6-03-□				31.5	31.4			12.5			23.75
TT8-01-□	8	R1/8	8	26.3	29.8	15	18.1	22.4	14	5.8	23 [0.81]
ATT8-01-□				24	27.3			14.5	22.7	12	6
TT8-02-□	8	R1/4	11	29.3	30.8	15	18.1	22.4	14	5.8	29 [1.02]
ATT8-02-□				28	29.2			14.5		23.7	6.7
TT8-03-□	8	R3/8	12	31.1	32.3	15	18.1	22.4	17	5.8	42 [1.48]
ATT8-03-□				31	31.9			14.5		24.7	6.7
TT10-02-□	10	R1/4	11	36	38.7	17.5	20.2	25.2	17	8	42 [1.48]
ATT10-02-□				28.5	31.2			17.5	26	14	31 [1.09]
TT10-03-□	10	R3/8	12	37	39.4	17.5	20.2	25.2	17	8	50 [1.76]
ATT10-03-□				32	34.4			17.5		27	8.3
TT10-04-□	10	R1/2	15	40	40.6	17.5	20.2	25.2	21	8	72 [2.54]
ATT10-04-□				36	36.6			17.5		27.5	8.3
TT12-02-□	12	R1/4	11	38	42.5	21	22.9	28.4	21	8	61 [2.15]
ATT12-02-□				29.8	34.2			21	23.4	14	28.95
TT12-03-□	12	R3/8	12	39	43.2	21	22.9	28.4	21	10	62 [2.19]
ATT12-03-□				32.5	36.7			21	23.4	17	29.7
TT12-04-□	12	R1/2	15	42	44.3	21	22.9	28.4	21	10	78 [2.75]
ATT12-04-□				36.5	38.8			21		23.4	10.3

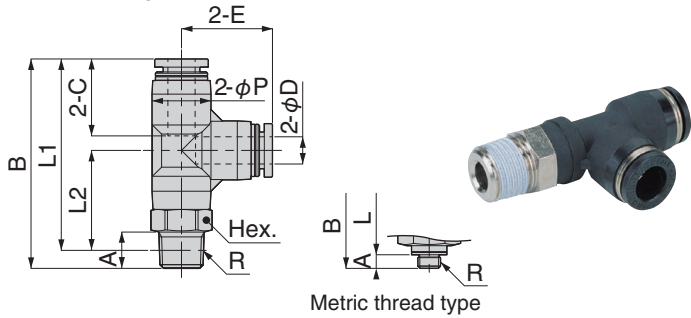
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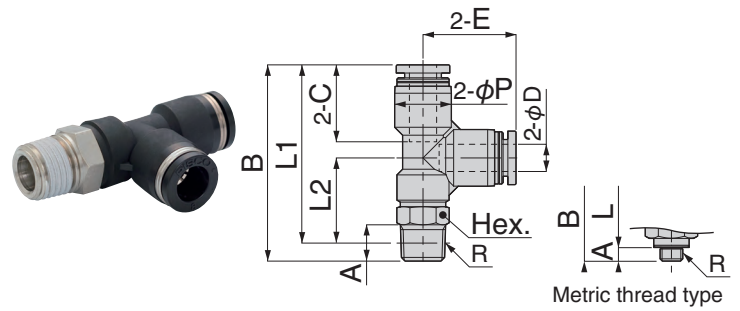
* Prices are the same.

TB/ATB Branch tee

● Existing model TB



● New model ATB



Unit: mm

Model	Tube outer diameter φ D	R	A	B	L1	L2	φ P	C	E	Width across flats Hex.	Orifice diameter (φ mm)	Mass g [oz]
TB4-M5-D	4	M5×0.8	3	37.1	34.1	17.2	10	14.9	16.9	10	1.8	11 [0.39]
ATB4-M5-D			2.8	33.7	30.9	13.7			17.2		8	2.4
TB4-M6-D	4	M6×1	4	38.1	34.1	17.2	10	14.9	16.9	10	2.4	11 [0.39]
ATB4-M6-D			3.8	38.2	34.4	17.2			17.2		10	2.4
TB4-01-D	4	R1/8	8	40.1	36.1	19.2	10	14.9	16.9	10	2.8	14 [0.49]
ATB4-01-D			40.2	36.2	19	17.2			17.2		10	2.8
TB4-02-□	4	R1/4	11	43.1	37.1	20.2	10	14.9	16.9	14	2.8	23 [0.81]
ATB4-02-□			46.2	40.2	23	19.2			19.2		14	2.8
TB6-M5-D	6	M5×0.8	3	43.2	40.2	20	13	17	20.1	12	1.8	16 [0.56]
ATB6-M5-D			2.8	40.3	37.5	17			12.5		20.5	10
TB6-M6-D	6	M6×1	4	44.2	40.2	20	13	17	20.1	12	3	17 [0.6]
ATB6-M6-D			3.8	41.3	37.5	17			12.5		20.5	10
TB6-01-D	6	R1/8	8	46.2	42.2	22	13	17	20.1	12	4.3	18 [0.63]
ATB6-01-D			43.3	39.3	18.8	12.5			20.5			10
TB6-02-□	6	R1/4	11	49.2	43.1	23	13	17	20.1	14	4.3	26 [0.92]
ATB6-02-□			48.8	42.7	22.2	12.5			20.5			14
TB6-03-□	6	R3/8	12	51	44.6	24.5	13	17	20.1	17	4.3	39 [1.38]
ATB6-03-□			52	45.7	25.2	12.5			21.5			17
TB8-01-□	8	R1/8	8	50.4	46.4	24.2	15	18.1	22.2	14	6	23 [0.81]
ATB8-01-□			46.9	42.9	20	14.5			22.9			12
TB8-02-□	8	R1/4	11	53.4	47.4	25.2	15	18.1	22.2	14	6	29 [1.02]
ATB8-02-□			51.7	45.7	22.8	14.5			22.9			14
TB8-03-□	8	R3/8	12	55.2	48.9	26.7	15	18.1	22.2	17	6	42 [1.48]
ATB8-03-□			55.4	49.1	26.2	14.5			22.9			17
TB10-02-□	10	R1/4	11	61.2	55.2	30	17.5	20.2	25.2	17	8	42 [1.48]
ATB10-02-□			54.7	48.7	22.5	17.5			26.2			14
TB10-03-□	10	R3/8	12	62.2	55.9	30.7	17.5	20.2	25.2	17	8	50 [1.76]
ATB10-03-□			58.2	51.9	25.7	17.5			26.2			17
TB10-04-□	10	R1/2	15	65.2	57	31.8	17.5	20.2	25.2	21	8	72 [2.54]
ATB10-04-□			62.2	54	27.8	17.5			27.3			21
TB12-02-□	12	R1/4	11	66.6	60.6	32.2	21	22.9	28.2	21	8	62 [2.19]
ATB12-02-□			60.3	54.2	23.7	21			23.4			30
TB12-03-□	12	R3/8	12	67.6	61.3	32.9	21	22.9	28.2	21	10	78 [2.75]
ATB12-03-□			63.5	57.2	26.7	21			23.4			30.5
TB12-04-□	12	R1/2	15	70.6	62.4	34	21	22.9	28.2	21	10	78 [2.75]
ATB12-04-□			67.5	59.3	28.8	21			23.4			30.7

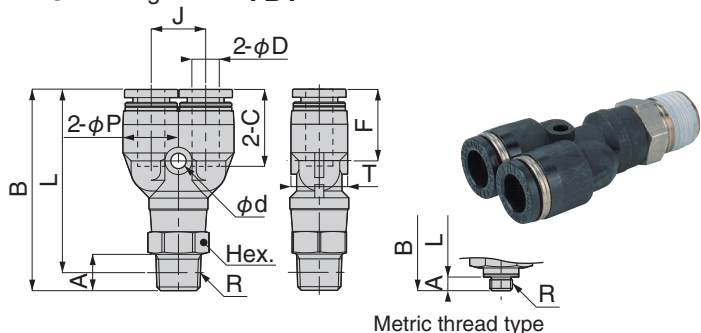
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* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

* Prices are the same.

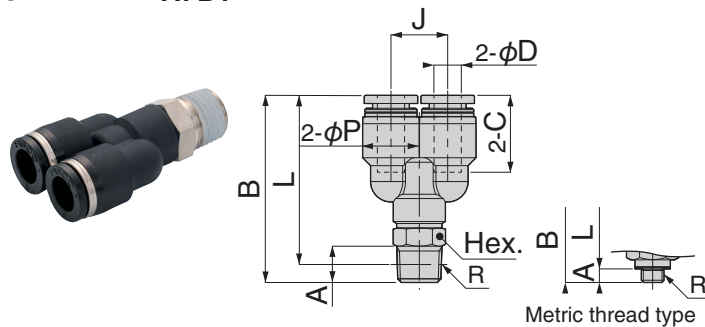
TBY/ATBY Branch Y

● Existing model **TBY**



Metric thread type

● New model **ATBY**



Metric thread type

Unit: mm

Model	Tube outer diameter ϕD	R	A	B	L	ϕP	C	J	ϕd	F	T	Width across flats Hex.	Orifice diameter (ϕ mm)	Mass g [oz]
TBY4-M5-□	4	M5×0.8	3	37.6	34.6	10	14.9	11	3.2	14.1	10.4	10	1.8	11 [0.39]
ATBY4-M5-□			2.8	32.9	30.1			10.3	-	-	8		2.4	8 [0.28]
TBY4-01-□	4	R1/8	8	40.6	36.6	10	14.9	11	3.2	14.1	10.4	10	2.7	14 [0.49]
ATBY4-01-□				38.4	34.4			10.3	-	-	2.8		13 [0.46]	
TBY4-02-□	4	R1/4	11	43.6	37.6	10	14.9	11	3.2	14.1	10.4	14	2.7	23 [0.81]
ATBY4-02-□				43.4	37.4			10.3	-	-	2.8		20 [0.71]	
TBY6-M5-□	6	M5×0.8	3	41.4	38.4	12.5	17	12	3.4	15.8	13.5	12	1.8	16 [0.56]
ATBY6-M5-□				2.8	38.3			35.5	12.5	-	-		10	2.4
TBY6-M6-□	6	M6×1	4	42.4	38.4	12.5	17	12	3.4	15.8	13.5	12	3	17 [0.6]
ATBY6-M6-□				3.8	39.3			35.5	12.5	-	-		10	3
TBY6-01-□	6	R1/8	8	44.4	40.4	12.5	17	12	3.4	15.8	13.5	12	4.4	18 [0.63]
ATBY6-01-□				41.3	37.3			12.5	-	-	10		4.3	15 [0.53]
TBY6-02-□	6	R1/4	11	47.4	41.3	12.5	17	12	3.4	15.8	13.5	14	4.4	26 [0.92]
ATBY6-02-□				48.3	42.2			12.5	-	-	4.3		22 [0.78]	
TBY6-03-□	6	R3/8	12	49.2	42.8	12.5	17	12	3.4	15.8	13.5	17	4.4	40 [1.41]
ATBY6-03-□				51.3	44.9			12.5	-	-	4.3		33 [1.16]	
TBY8-01-□	8	R1/8	8	48.7	44.7	14.5	18.1	14	3.4	17.2	15.1	14	5.9	24 [0.85]
ATBY8-01-□				46.1	42.1			14.5	-	-	12		6	20 [0.71]
TBY8-02-□	8	R1/4	11	51.7	45.7	14.5	18.1	14	3.4	17.2	15.1	14	5.9	29 [1.02]
ATBY8-02-□				49.3	43.3			14.5	-	-	6.7		25 [0.88]	
TBY8-03-□	8	R3/8	12	53.5	47.2	14.5	18.1	14	3.4	17.2	15.1	17	5.9	43 [1.52]
ATBY8-03-□				52.5	46.2			14.5	-	-	6.7		36 [1.27]	
TBY10-02-□	10	R1/4	11	58.3	52.3	18	20.7	18	4.5	19.5	18	17	6.7	44 [1.55]
ATBY10-02-□				53.6	47.6			17.5	20.2	17.5	-		-	14
TBY10-03-□	10	R3/8	12	59.3	53	18	20.7	18	4.5	19.5	18	17	6.7	52 [1.83]
ATBY10-03-□				56.7	50.4			17.5	20.2	17.5	-		-	8.3
TBY10-04-□	10	R1/2	15	62.3	54.1	18	20.7	18	4.5	19.5	18	21	6.7	74 [2.61]
ATBY10-04-□				60.2	52			17.5	20.2	17.5	-		-	8.3
TBY12-02-□	12	R1/4	11	63.5	57.5	21	23.4	20	4.2	22.2	21	21	8	64 [2.26]
ATBY12-02-□				58.6	52.6			21	23.4	21	-		-	14
TBY12-03-□	12	R3/8	12	64.5	58.2	21	23.4	20	4.2	22.2	21	21	8	65 [2.29]
ATBY12-03-□				60.6	54.3			21	23.4	21	-		-	17
TBY12-04-□	12	R1/2	15	67.5	59.3	21	23.4	20	4.2	22.2	21	21	8	81 [2.86]
ATBY12-04-□				64.7	56.5			21	23.4	21	-		-	10.3

* □ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

* Prices are the same.

List of models and their specifications

* See the following table for combinations of models of fittings, tube size, and thread size.

Regarding NCU specifications, the "←" indicates that the standard model can be used as NCU specifications, so order the standard model.

- The dimension diagram for the following NCU specifications and the CS specifications are the same as the standard model or the non-lubricant specifications. Refer to the dimension diagrams on pages ① to ⑩.

● Table of models

Name	Tube outer diameter	Thread size	Standard model or non-lubricant specifications	NCU Specification	CS Specification	
Straight ATS	4	M5 × 0.8	ATS4-M5-D	—	CS-ATS4-M5	
			ATS4-M50-□	←	CS-ATS4-M50	
		M6 × 1	ATS4-M6-D	—	CS-ATS4-M6	
		R1/8	ATS4-01-D	NCU-ATS4-01	CS-ATS4-01	
		R1/4	ATS4-02-□	NCU-ATS4-02	CS-ATS4-02	
	6	M5 × 0.8	ATS6-M5-D	—	CS-ATS6-M5	
			ATS6-M6-D	—	CS-ATS6-M6	
		R1/8	ATS6-01-D	NCU-ATS6-01	CS-ATS6-01	
		R1/4	ATS6-02-□	NCU-ATS6-02	CS-ATS6-02	
		R3/8	ATS6-03-□	NCU-ATS6-03	CS-ATS6-03	
	8	R1/8	ATS8-01-□	NCU-ATS8-01	CS-ATS8-01	
		R1/4	ATS8-02-□	NCU-ATS8-02	CS-ATS8-02	
		R3/8	ATS8-03-□	NCU-ATS8-03	CS-ATS8-03	
	10	R1/8	ATS10-01-□	NCU-ATS10-01	CS-ATS10-01	
		R1/4	ATS10-02-□	NCU-ATS10-02	CS-ATS10-02	
		R3/8	ATS10-03-□	NCU-ATS10-03	CS-ATS10-03	
		R1/2	ATS10-04-□	NCU-ATS10-04	CS-ATS10-04	
	12	R1/4	ATS12-02-□	NCU-ATS12-02	CS-ATS12-02	
		R3/8	ATS12-03-□	NCU-ATS12-03	CS-ATS12-03	
		R1/2	ATS12-04-□	NCU-ATS12-04	CS-ATS12-04	
16	R3/8	ATS16-03-□	NCU-ATS16-03	CS-ATS16-03		
	R1/2	ATS16-04-□	NCU-ATS16-04	CS-ATS16-04		
Straight with hexagon socket ATSH	4	M5 × 0.8	ATSH4-M5-D	—	CS-ATSH4-M5	
			ATSH4-M6-D	—	CS-ATSH4-M6	
		R1/8	ATSH4-01-D	NCU-ATSH4-01	CS-ATSH4-01	
	6	M5 × 0.8	ATSH6-M5-D	—	CS-ATSH6-M5	
			ATSH6-M6-D	—	CS-ATSH6-M6	
		R1/8	ATSH6-01-D	NCU-ATSH6-01	CS-ATSH6-01	
	8	R1/4	ATSH6-02-□	NCU-ATSH6-02	CS-ATSH6-02	
		R1/8	ATSH8-01-□	NCU-ATSH8-01	CS-ATSH8-01	
		R1/4	ATSH8-02-□	NCU-ATSH8-02	CS-ATSH8-02	
	10	R3/8	ATSH8-03-□	NCU-ATSH8-03	CS-ATSH8-03	
		R1/4	ATSH10-02-□	NCU-ATSH10-02	CS-ATSH10-02	
		R3/8	ATSH10-03-□	NCU-ATSH10-03	CS-ATSH10-03	
	12	R1/2	ATSH10-04-□	NCU-ATSH10-04	CS-ATSH10-04	
		R3/8	ATSH12-03-□	NCU-ATSH12-03	CS-ATSH12-03	
		R1/2	ATSH12-04-□	NCU-ATSH12-04	CS-ATSH12-04	
	Female straight ATSM	4	Rc1/8	ATSM4-01-□	←	CS-ATSM4-01
			Rc1/4	ATSM4-02-□	←	CS-ATSM4-02
		6	Rc1/8	ATSM6-01-□	←	CS-ATSM6-01
			Rc1/4	ATSM6-02-□	←	CS-ATSM6-02
		8	Rc1/8	ATSM8-01-□	←	CS-ATSM8-01
Rc1/4			ATSM8-02-□	←	CS-ATSM8-02	
Rc3/8			ATSM8-03-□	←	CS-ATSM8-03	
10		Rc1/4	ATSM10-02-□	←	CS-ATSM10-02	
		Rc3/8	ATSM10-03-□	←	CS-ATSM10-03	
12		Rc1/4	ATSM12-02-□	←	CS-ATSM12-02	
		Rc3/8	ATSM12-03-□	←	CS-ATSM12-03	

* -D ⇒ Non-lubricant specification only. -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

Name	Tube outer diameter	Thread size	Standard model or non-lubricant specifications	NCU Specification	CS Specification	
Union for bulkhead AUK	4	—	AUK4-D	—	CS-AUK4	
	6	—	AUK6-D	—	CS-AUK6	
	8	—	AUK8-□	←	CS-AUK8	
	10	—	AUK10-□	←	CS-AUK10	
	12	—	AUK12-□	←	CS-AUK12	
Female union for bulkhead AUKM	4	Rc1/8	AUKM4-01-□	←	CS-AUKM4-01	
		Rc1/8	AUKM6-01-□	←	CS-AUKM6-01	
	6	Rc1/4	AUKM6-02-□	←	CS-AUKM6-02	
		Rc1/8	AUKM8-01-□	←	CS-AUKM8-01	
	8	Rc1/4	AUKM8-02-□	←	CS-AUKM8-02	
		Rc3/8	AUKM8-03-□	←	CS-AUKM8-03	
	10	Rc1/4	AUKM10-02-□	←	CS-AUKM10-02	
		Rc3/8	AUKM10-03-□	←	CS-AUKM10-03	
	12	Rc3/8	AUKM12-03-□	←	CS-AUKM12-03	
		Rc1/2	AUKM12-04-□	←	CS-AUKM12-04	
	Elbow ATL	4	M5 × 0.8	ATL4-M5-D	—	CS-ATL4-M5
				ATL4-M6-D	—	CS-ATL4-M6
R1/8			ATL4-01-D	NCU-ATL4-01	CS-ATL4-01	
6		M5 × 0.8	ATL6-M5-D	—	CS-ATL6-M5	
			ATL6-M6-D	—	CS-ATL6-M6	
		R1/8	ATL6-01-D	NCU-ATL6-01	CS-ATL6-01	
8		R1/4	ATL6-02-□	NCU-ATL6-02	CS-ATL6-02	
		R3/8	ATL6-03-□	NCU-ATL6-03	CS-ATL6-03	
		R1/8	ATL8-01-□	NCU-ATL8-01	CS-ATL8-01	
10		R1/4	ATL8-02-□	NCU-ATL8-02	CS-ATL8-02	
		R3/8	ATL8-03-□	NCU-ATL8-03	CS-ATL8-03	
		R1/8	ATL10-01-□	NCU-ATL10-01	CS-ATL10-01	
12		R1/4	ATL10-02-□	NCU-ATL10-02	CS-ATL10-02	
		R3/8	ATL10-03-□	NCU-ATL10-03	CS-ATL10-03	
		R1/2	ATL10-04-□	NCU-ATL10-04	CS-ATL10-04	
Long elbow ATLL	4	M5 × 0.8	ATLL4-M5-D	—	CS-ATLL4-M5	
			ATLL4-01-D	NCU-ATLL4-01	CS-ATLL4-01	
	6	R1/8	ATLL6-01-D	NCU-ATLL6-01	CS-ATLL6-01	
		R1/4	ATLL6-02-□	NCU-ATLL6-02	CS-ATLL6-02	
		R3/8	ATLL6-03-□	NCU-ATLL6-03	CS-ATLL6-03	
	8	R1/8	ATLL8-01-□	NCU-ATLL8-01	CS-ATLL8-01	
		R1/4	ATLL8-02-□	NCU-ATLL8-02	CS-ATLL8-02	
		R3/8	ATLL8-03-□	NCU-ATLL8-03	CS-ATLL8-03	
	10	R1/4	ATLL10-02-□	NCU-ATLL10-02	CS-ATLL10-02	
		R3/8	ATLL10-03-□	NCU-ATLL10-03	CS-ATLL10-03	
		R1/2	ATLL10-04-□	NCU-ATLL10-04	CS-ATLL10-04	
	12	R1/4	ATLL12-02-□	NCU-ATLL12-02	CS-ATLL12-02	
		R3/8	ATLL12-03-□	NCU-ATLL12-03	CS-ATLL12-03	
		R1/2	ATLL12-04-□	NCU-ATLL12-04	CS-ATLL12-04	

* -D ⇒ Non-lubricant specification only. -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

List of models and their specifications

* See the following table for combinations of models of fittings, tube size, and thread size.

Regarding NCU specifications, the "←" indicates that the standard model can be used as NCU specifications, so order the standard model.

- The dimension diagram for the following NCU specifications and the CS specifications are the same as the standard model or the non-lubricant specifications. Refer to the dimension diagrams on pages ① to ⑩.

● Table of models

Name	Tube outer diameter	Thread size	Standard model or non-lubricant specifications	NCU Specification	CS Specification
Tee ATT	4	M5×0.8	ATT4-M5-D	—	CS-ATT4-M5
		M6×1	ATT4-M6-D	—	CS-ATT4-M6
		R1/8	ATT4-01-D	NCU-ATT4-01	CS-ATT4-01
		R1/4	ATT4-02-□	NCU-ATT4-02	CS-ATT4-02
	6	M5×0.8	ATT6-M5-D	—	CS-ATT6-M5
		M6×1	ATT6-M6-D	—	CS-ATT6-M6
		R1/8	ATT6-01-D	NCU-ATT6-01	CS-ATT6-01
		R1/4	ATT6-02-□	NCU-ATT6-02	CS-ATT6-02
		R3/8	ATT6-03-□	NCU-ATT6-03	CS-ATT6-03
		R1/8	ATT8-01-□	NCU-ATT8-01	CS-ATT8-01
	8	R1/4	ATT8-02-□	NCU-ATT8-02	CS-ATT8-02
		R3/8	ATT8-03-□	NCU-ATT8-03	CS-ATT8-03
		R1/4	ATT10-02-□	NCU-ATT10-02	CS-ATT10-02
	10	R3/8	ATT10-03-□	NCU-ATT10-03	CS-ATT10-03
		R1/2	ATT10-04-□	NCU-ATT10-04	CS-ATT10-04
		R1/4	ATT12-02-□	NCU-ATT12-02	CS-ATT12-02
	12	R3/8	ATT12-03-□	NCU-ATT12-03	CS-ATT12-03
		R1/2	ATT12-04-□	NCU-ATT12-04	CS-ATT12-04
		M5×0.8	ATB4-M5-D	—	CS-ATB4-M5
	4	M6×1	ATB4-M6-D	—	CS-ATB4-M6
R1/8		ATB4-01-D	NCU-ATB4-01	CS-ATB4-01	
R1/4		ATB4-02-□	NCU-ATB4-02	CS-ATB4-02	
M5×0.8		ATB6-M5-D	—	CS-ATB6-M5	
6	M6×1	ATB6-M6-D	—	CS-ATB6-M6	
	R1/8	ATB6-01-D	NCU-ATB6-01	CS-ATB6-01	
	R1/4	ATB6-02-□	NCU-ATB6-02	CS-ATB6-02	
	R3/8	ATB6-03-□	NCU-ATB6-03	CS-ATB6-03	
	R1/8	ATB8-01-□	NCU-ATB8-01	CS-ATB8-01	
	R1/4	ATB8-02-□	NCU-ATB8-02	CS-ATB8-02	
8	R3/8	ATB8-03-□	NCU-ATB8-03	CS-ATB8-03	
	R1/4	ATB10-02-□	NCU-ATB10-02	CS-ATB10-02	
	R3/8	ATB10-03-□	NCU-ATB10-03	CS-ATB10-03	
10	R1/2	ATB10-04-□	NCU-ATB10-04	CS-ATB10-04	
	R1/4	ATB12-02-□	NCU-ATB12-02	CS-ATB12-02	
	R3/8	ATB12-03-□	NCU-ATB12-03	CS-ATB12-03	
12	R1/2	ATB12-04-□	NCU-ATB12-04	CS-ATB12-04	
	M5×0.8	ATBY4-M5-□	←	CS-ATBY4-M5	
	4	R1/8	ATBY4-01-□	NCU-ATBY4-01	CS-ATBY4-01
R1/4		ATBY4-02-□	NCU-ATBY4-02	CS-ATBY4-02	
M5×0.8		ATBY6-M5-□	←	CS-ATBY6-M5	
6		M6×1	ATBY6-M6-□	←	CS-ATBY6-M6
	R1/8	ATBY6-01-□	NCU-ATBY6-01	CS-ATBY6-01	
	R1/4	ATBY6-02-□	NCU-ATBY6-02	CS-ATBY6-02	
	R3/8	ATBY6-03-□	NCU-ATBY6-03	CS-ATBY6-03	
	R1/8	ATBY8-01-□	NCU-ATBY8-01	CS-ATBY8-01	
	R1/4	ATBY8-02-□	NCU-ATBY8-02	CS-ATBY8-02	
8	R3/8	ATBY8-03-□	NCU-ATBY8-03	CS-ATBY8-03	
	R1/4	ATBY10-02-□	NCU-ATBY10-02	CS-ATBY10-02	
	R3/8	ATBY10-03-□	NCU-ATBY10-03	CS-ATBY10-03	
10	R1/2	ATBY10-04-□	NCU-ATBY10-04	CS-ATBY10-04	
	R1/4	ATBY12-02-□	NCU-ATBY12-02	CS-ATBY12-02	
	R3/8	ATBY12-03-□	NCU-ATBY12-03	CS-ATBY12-03	
12	R1/2	ATBY12-04-□	NCU-ATBY12-04	CS-ATBY12-04	

* -D ⇒ Non-lubricant specification only. -□ ⇒ Select either blank (standard) or D (non-lubricant specification)

● Tightening torque (reference value), sealant color, and gasket material for targeted models

Thread type	Thread size	Tightening torque N·m [in·lbf]	Sealant color	Gasket material
Metric thread	M5 × 0.8	1 to 1.5 [8.85 to 13.28]	—	SUS304
	M6 × 1	2 to 2.7 [17.70 to 23.90]		NBR
Tapered threads for pipes*	R1/8	4.5 to 6.5 [39.83 to 57.53]	White	—
	R1/4	7 to 9 [61.96 to 79.66]		
	R3/8	12.5 to 14.5 [110.64 to 128.34]		
	R1/2	20 to 22 [177.02 to 194.72]		

* The tightening torque is the same for all products with tapered threads for quick fitting pipes.

Limited Warranty

KOGANEI CORP. warrants its products to be free from defects in material and workmanship subject to the following provisions.

Warranty Period The warranty period is 180 days from the date of delivery.

Koganei Responsibility If a defect in material or workmanship is found during the warranty period, KOGANEI CORP. will replace any part proved defective under normal use free of charge and will provide the service necessary to replace such a part.

Limitations

- This warranty is in lieu of all other warranties, expressed or implied, and is limited to the original cost of the product and shall not include any transportation fee, the cost of installation or any liability for direct, indirect or consequential damage or delay resulting from the defects.

- KOGANEI CORP. shall in no way be liable or responsible for injuries or damage to persons or property arising out of the use or operation of the manufacturer's product.

- This warranty shall be void if the engineered safety devices are removed, made inoperative or not periodically checked for proper functioning.

- Any operation beyond the rated capacity, any improper use or application, or any improper installation of the product, or any substitution upon it with parts not furnished or approved by KOGANEI CORP., shall void this warranty.

- This warranty covers only such items supplied by KOGANEI CORP. The products of other manufacturers are covered only by such warranties made by those original manufacturers, even though such items may have been included as the components.

The specifications are subject to change without notice.

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QUICK FITTINGS (Smart type) NEW AND IMPROVED

Six new models added

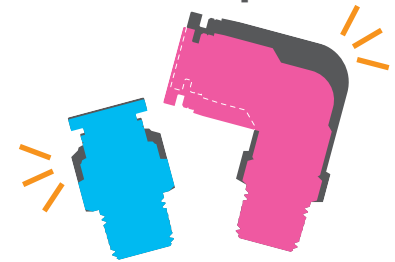
Our quick fittings and supply joints have been revamped with a **smart, new form**.

25% lighter (average weight reduction)
Tightening Torque Improvement

Tapered threads used for all quick fittings

Fitting mechanism unchanged

Some models are also more compact.






Now even easier to use!

List of models added (the following is a list of the existing models)

On sale October 1, 2015

Quick fitting

TBLY	TBW	TBE	TBEW	TBZ
Branch elbow Y	Branch double Y	Branch triple	Branch triple double	Branch tetra
				
TBLY4-M5	TBW4-01	TBE6-4-01	TBEW8-4-02	TBZ4-M5
TBLY4-M6	TBW4-02	TBE8-4-02	TBEW8-4-03	TBZ4-M6
TBLY4-01	TBW6-01	TBE8-6-02	TBEW8-6-02	TBZ4-01
TBLY4-02		TBE10-8-03	TBEW8-6-03	TBZ4-02
TBLY6-M5			TBEW10-6-03	TBZ6-M5
TBLY6-M6			TBEW10-6-04	TBZ6-M6
TBLY6-01			TBEW10-8-03	TBZ6-01
TBLY6-02			TBEW10-8-04	TBZ6-02
TBLY6-03				TBZ6-03
TBLY8-01				TBZ8-01
TBLY8-02				TBZ8-02
TBLY8-03				TBZ8-03
TBLY10-02				TBZ10-02
TBLY10-03				TBZ10-03
TBLY10-04				TBZ10-04
TBLY12-02				TBZ12-02
TBLY12-03				TBZ12-03
TBLY12-04				TBZ12-04

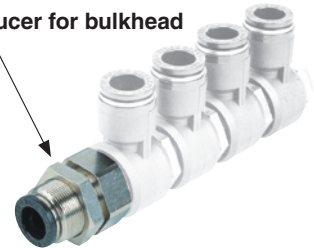
Supply joint

SKR
Reducer for bulkhead

SKR8-4
SKR8-6
SKR12-6
SKR12-8
SKR12-10
SKR14-8
SKR14-10
SKR14-12
SKR18-12

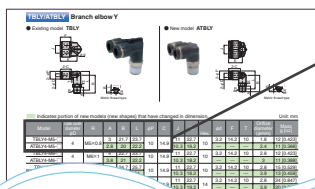
(Example of use)

Reducer for bulkhead



How to read tables comparing differences in external dimensions of old and new models

★ New models have an A at the front of their model numbers.



Model	Tube outer diameter ϕD	R	A	B	L	ϕP	C
TBLY4-M5-□	4	M5×0.8	3	21.7	23.7	10	14.9
ATBLY4-M5-□			2.8	20	22.2		

Bottom one is new model number.

① : When there is no change in dimensions between the old and new shapes.

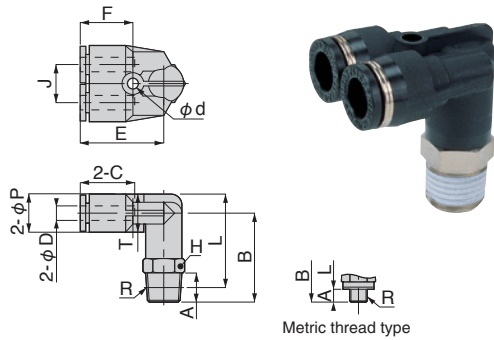
② : When there is a change in dimensions between the old and new shapes.

Top: Existing model, Bottom: New shape

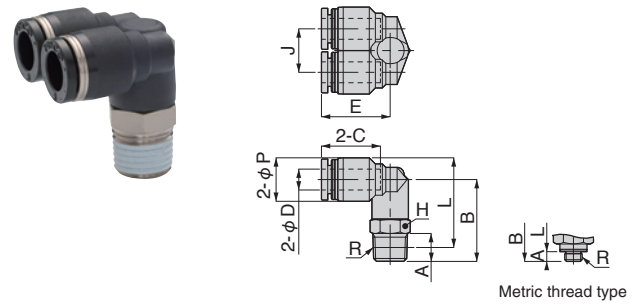
▶ See following pages for details.

TBLY/ATBLY Branch elbow Y

Existing model TBLY



New model ATBLY



indicates portion of new models (new shapes) that have changed in dimension.

Unit: mm

Model	Tube outer diameter ϕD	R	A	B	L	ϕP	C	J	E	Width across flats Hex.	ϕd	F	T	Orifice diameter (ϕ mm)	Mass g [oz]
TBLY4-M5-□	4	M5×0.8	3	21.7	23.7	10	14.9	11	22.7	10	3.2	14.2	10	1.8	12 [0.423]
ATBLY4-M5-□			2.8	20	22.2			10.3	18.2						2.4
TBLY4-M6-□	4	M6×1	4	22.7	23.7	10	14.9	11	22.7	10	3.2	14.2	10	2.8	12 [0.423]
ATBLY4-M6-□			3.8	21	22.2			10.3	18.2						3
TBLY4-01-□	4	R1/8	8	24.7	25.7	10	14.9	11	22.7	10	3.2	14.2	10	2.8	15 [0.529]
ATBLY4-01-□				23	24			10.3	18.2						3.9
TBLY4-02-□	4	R1/4	11	27.7	26.7	10	14.9	11	22.7	14	3.2	14.2	10	2.8	24 [0.847]
ATBLY4-02-□				27	26			10.3	19.2						3.9
TBLY6-M5-□	6	M5×0.8	3	25	28.3	12.5	17	12	26.2	12	4.2	15.5	12.5	1.8	17 [0.600]
ATBLY6-M5-□			2.8	20.5	24			12.5	19.8						10
TBLY6-M6-□	6	M6×1	4	26	28.3	12.5	17	12	26.2	12	4.2	15.5	12.5	3	18 [0.635]
ATBLY6-M6-□			3.8	21.5	24			12.5	19.8						10
TBLY6-01-□	6	R1/8	8	28	30.3	12.5	17	12	26.2	12	4.2	15.5	12.5	4	19 [0.670]
ATBLY6-01-□				23.5	25.8			10	19.8						10
TBLY6-02-□	6	R1/4	11	31	31.2	12.5	17	12	26.2	14	4.2	15.5	12.5	4	27 [0.952]
ATBLY6-02-□				29	29.2			12.5	21.8						14
TBLY6-03-□	6	R3/8	12	32.8	32.7	12.5	17	12	26.2	17	4.2	15.5	12.5	4	40 [1.411]
ATBLY6-03-□				31.5	31.4			12.5	23.8						17
TBLY8-01-□	8	R1/8	8	31	34.3	14.5	18.1	14	29.4	14	4.2	16.9	14.5	4.1	25 [0.882]
ATBLY8-01-□				25	28.3			12	22.7						12
TBLY8-02-□	8	R1/4	11	34	35.2	14.5	18.1	14	29.4	14	4.2	16.9	14.5	4.1	31 [1.093]
ATBLY8-02-□				29	30.2			12	23.7						14
TBLY8-03-□	8	R3/8	12	35.8	36.7	14.5	18.1	14	29.4	17	4.2	16.9	14.5	4.1	44 [1.552]
ATBLY8-03-□				32	32.9			12	24.7						17
TBLY10-02-□	10	R1/4	11	37	39.7	17.5	20.2	18	33.5	17	4.2	18.5	17.5	7.5	46 [1.623]
ATBLY10-02-□				29.5	32.2			17.5	26						14
TBLY10-03-□	10	R3/8	12	38	40.4	17.5	20.2	18	33.5	17	4.2	18.5	17.5	7.5	54 [1.905]
ATBLY10-03-□				32.5	34.9			17.5	27						17
TBLY10-04-□	10	R1/2	15	41	41.6	17.5	20.2	18	33.5	21	4.2	18.5	17.5	7.5	76 [2.681]
ATBLY10-04-□				37	37.6			17.5	28						21
TBLY12-02-□	12	R1/4	11	41.2	45.7	21	23.4	20	35.2	21	4.2	20.4	21	8	67 [2.363]
ATBLY12-02-□				29.5	34			14	28.2						14
TBLY12-03-□	12	R3/8	12	42.2	46.4	21	23.4	20	35.2	21	4.2	20.4	21	9.8	68 [2.399]
ATBLY12-03-□				33.5	37.7			17	29.2						17
TBLY12-04-□	12	R1/2	15	45.2	47.5	21	23.4	20	35.2	21	4.2	20.4	21	9.8	83 [2.928]
ATBLY12-04-□				38	40.3			21	30.2						21

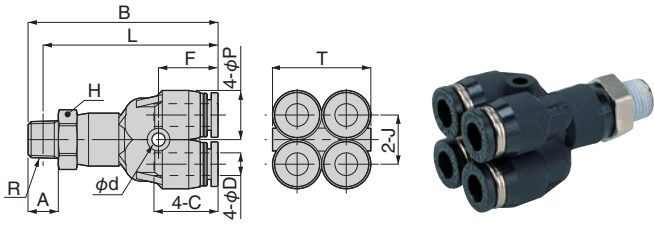
* - □ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

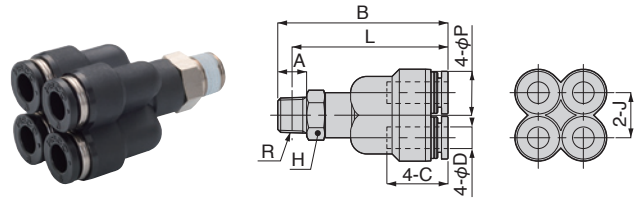
* Prices are the same.

TBW/ATBW Branch double Y

Existing model TBW



New model ATBW



indicates portion of new models (new shapes) that have changed in dimension.

Unit: mm

Model	Tube outer diameter φD	R	A	B	L	φP	C	J	Width across flats Hex.	φd	F	T	Orifice diameter (φmm)	Mass g [oz]
TBW4-01-□	4	R1/8	8	45.7	41.7	10.5	14.9	10	12	3.2	14.2	20.5	2.1	22 [0.776]
ATBW4-01-□				38.9	34.9			10.3		—	—	—	2.6	16 [0.564]
TBW4-02-□	4	R1/4	11	48.7	42.7	10.5	14.9	10	14	3.2	14.2	20.5	2.1	30 [1.058]
ATBW4-02-□				42.4	36.4			10.3		—	—	—	2.6	21 [0.741]
TBW6-01-□	6	R1/8	8	50.3	46.3	13	17	13	14	3.5	15.8	26	4.3	29 [1.023]
ATBW6-01-□				47.2	43.2			12.5		12	—	—	—	5.2

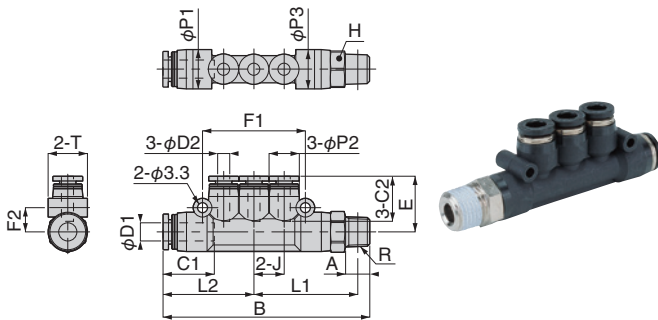
* - □ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

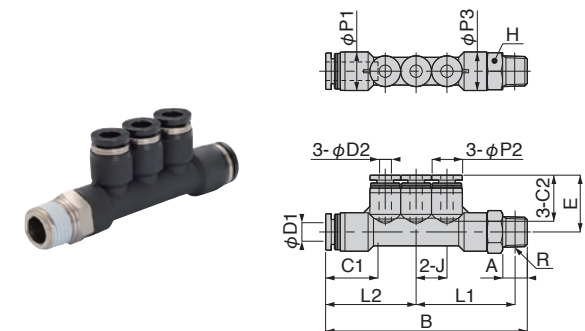
* Prices are the same.

TBE/ATBE Branch triple

Existing model TBE



New model ATBE



indicates portion of new models (new shapes) that have changed in dimension.

Unit: mm

Model	Tube outer diameter φD1	Tube outer diameter φD2	R	A	B	E	L1	L2	J	φP1	φP2	φP3	C1	C2	F1	F2	Width across flats Hex.	T	Orifice diameter (φmm)	Mass g [oz]
TBE6-4-01-□	6	4	R1/8	8	68.4	18.4	34.3	30.1	10	13	10	13	17	14.9	34	8	12	13	3	24 [0.847]
ATBE6-4-01-□					65.4		32.1	29.3		12.5		12.5			—	—		—		—
TBE8-4-02-□	8	4	R1/4	11	73.7	19.2	36.5	31.2	10	15	10	15	18.1	14.9	34	9.2	14	15	3	34 [1.199]
ATBE8-4-02-□					69.2		32	14.5		14.5		—			—	—		—		28 [0.988]
TBE8-6-02-□	8	6	R1/4	11	80.7	21.3	40	34.7	12	15	13	15	18.1	17	40.2	9	14	15	4.6	37 [1.305]
ATBE8-6-02-□					76.9		36.5	34.4		12.5		14.5			12.5	14.5		—		—
TBE10-8-03-□	10	8	R3/8	12	93	23.7	46.7	40	14	15	15	17.5	20.7	18.1	46.2	10.5	17	17.5	7	60 [2.116]
ATBE10-8-03-□					87.8		41.5	14.5		14.5		18			20.2	—		—		—

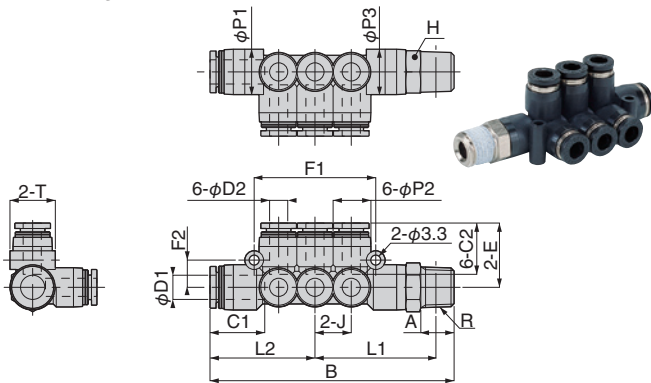
* - □ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L1 dimension for the tapered thread types is a reference dimension when mated and tightened.

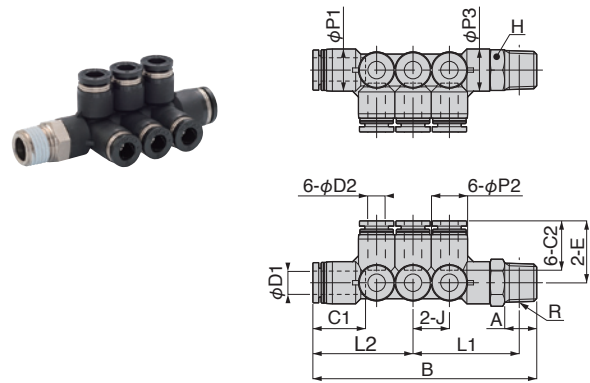
* Prices are the same.

TBEW/ATBEW Branch triple double

Existing model TBEW



New model ATBEW



indicates portion of new models (new shapes) that have changed in dimension.

Unit: mm

Model	Tube outer diameter φD1	Tube outer diameter φD2	R	A	B	E	L1	L2	J	φP1	φP2	φP3	C1	C2	F1	F2	Width across flats Hex.	T	Orifice diameter (φmm)	Mass g [oz]
TBEW8-4-02-□	8	4	R1/4	11	80.7	20.7	40	34.7	12	15	13	15	18.1	14.9	40.2	9	14	15	3	45 [1.587]
ATBEW8-4-02-□					69.2	19.2	32	31.2	10	14.5	10	14.5			—	—				—
TBEW8-4-03-□	8	4	R3/8	12	82.5	20.7	41.5	34.7	12	15	13	15	18.1	14.9	40.2	9	17	15	3	58 [2.046]
ATBEW8-4-03-□					72.2	19.2	34.7	31.2	10	14.5	10	18			—	—				—
TBEW8-6-02-□	8	6	R1/4	11	80.7	21.3	40	34.7	12	15	13	15	18.1	17	40.2	9	14	15	4.6	47 [1.658]
ATBEW8-6-02-□					76.9		36.5	34.4	12.5	14.5	12.5	14.5			—	—				—
TBEW8-6-03-□	8	6	R3/8	12	82.5	21.3	41.5	34.7	12	15	13	15	18.1	17	40.2	9	17	15	4.6	60 [2.116]
ATBEW8-6-03-□					80.7		39.9	34.4	12.5	14.5	12.5	18			—	—				—
TBEW10-6-03-□	10	6	R3/8	12	93	23.8	46.7	40	14	17.5	15	17.5	20.2	17	46.2	10.5	17	17.5	4.6	70 [2.469]
ATBEW10-6-03-□					81.5	22.3	38.2	37	12.5		12.5	18			—	—				—
TBEW10-6-04-□	10	6	R1/2	15	96	23.8	47.8	40	14	17.5	15	17.5	20.2	17	46.2	10.5	21	17.5	4.6	93 [3.280]
ATBEW10-6-04-□					85.5	22.3	40.3	37	12.5		12.5	20			—	—				—
TBEW10-8-03-□	10	8	R3/8	12	93	23.7	46.7	40	14	17.5	15	17.5	20.2	18.1	46.2	10.5	17	17.5	7	74 [2.610]
ATBEW10-8-03-□					87.8		41.5		14.5		14.5	18			—	—				—
TBEW10-8-04-□	10	8	R1/2	15	96	23.7	47.8	40	14	17.5	15	17.5	20.2	18.1	46.2	10.5	21	17.5	7	96 [3.386]
ATBEW10-8-04-□					91.8		43.6		14.5		14.5	20			—	—				—

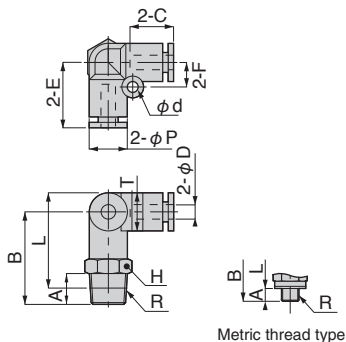
* - □ ⇒ Select either blank (standard) or D (non-lubricant specification)

* The L1 dimension for the tapered thread types is a reference dimension when mated and tightened.

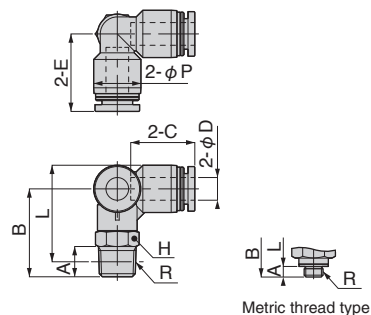
* Prices are the same.

TBZ/ATBZ Branch tetra

Existing model TBZ



New model ATBZ



indicates portion of new models (new shapes) that have changed in dimension.

Unit: mm

Model	Tube outer diameter ϕD	R	A	B	L	ϕP	C	E	Width across flats Hex.	ϕd	F	T	Orifice diameter (ϕ mm)	Mass g [oz]
TBZ4-M5-□	4	M5×0.8	3	21.7	23.7	10	14.9	16.9	10	3.2	6.5	10	1.8	11 [0.388]
ATBZ4-M5-□			2.8	20.3	22.5			18.2						2.4
TBZ4-M6-□	4	M6×1	4	22.7	23.7	10	14.9	16.9	10	3.2	6.5	10	3	11 [0.388]
ATBZ4-M6-□			3.8	21.3	22.5			18.2						10 [0.388]
TBZ4-01-□	4	R1/8	8	24.7	25.7	10	14.9	16.9	10	3.2	6.5	10	3	14 [0.494]
ATBZ4-01-□				23.3	24.3			18.2						13 [0.459]
TBZ4-02-□	4	R1/4	11	27.7	26.7	10	14.9	16.9	14	3.2	6.5	10	3	23 [0.811]
ATBZ4-02-□				29	28			20.7						20 [0.705]
TBZ6-M5-□	6	M5×0.8	3	25.3	28.6	12.5	17	20.1	12	4.2	8	12.5	1.8	17 [0.600]
ATBZ6-M5-□			2.8	20.3	23.7			20.5						10
TBZ6-M6-□	6	M6×1	4	26.3	28.6	12.5	17	20.1	12	4.2	8	12.5	3	17 [0.600]
ATBZ6-M6-□			3.8	21.3	23.7			20.5						10
TBZ6-01-□	6	R1/8	8	28.3	30.6	12.5	17	20.1	12	4.2	8	12.5	4.6	18 [0.635]
ATBZ6-01-□				23.3	25.5			20.5						10
TBZ6-02-□	6	R1/4	11	31.3	31.5	12.5	17	20.1	14	4.2	8	12.5	4.6	26 [0.917]
ATBZ6-02-□				28	28.2			21.8						22 [0.776]
TBZ6-03-□	6	R3/8	12	33.1	33	12.5	17	20.1	17	4.2	8	12.5	4.6	39 [1.376]
ATBZ6-03-□				31.5	31.4			23.8						33 [1.164]
TBZ8-01-□	8	R1/8	8	30.4	33.7	14.5	18.1	22.1	14	4.2	10	14.5	6	24 [0.847]
ATBZ8-01-□				25	28.3			22.7						12
TBZ8-02-□	8	R1/4	11	33.4	34.6	14.5	18.1	22.1	14	4.2	10	14.5	6	30 [1.058]
ATBZ8-02-□				29	30.2			23.7						14
TBZ8-03-□	8	R3/8	12	35.2	36.1	14.5	18.1	22.1	17	4.2	10	14.5	6	42 [1.482]
ATBZ8-03-□				32	32.9			24.7						17
TBZ10-02-□	10	R1/4	11	38.2	40.9	17.5	20.2	26.2	17	4.2	12	17.5	8	44 [1.552]
ATBZ10-02-□				29.4	32.1			26						14
TBZ10-03-□	10	R3/8	12	39.2	41.6	17.5	20.2	26.2	17	4.2	12	17.5	8	52 [1.834]
ATBZ10-03-□				33	35.4			27						17
TBZ10-04-□	10	R1/2	15	42.2	42.8	17.5	20.2	26.2	21	4.2	12	17.5	8	74 [2.610]
ATBZ10-04-□				37	37.6			27.5						21
TBZ12-02-□	12	R1/4	11	41.2	45.7	21	23.4	29.4	21	4.2	14	21	8	64 [2.258]
ATBZ12-02-□				30.8	35.2			30.2						14
TBZ12-03-□	12	R3/8	12	42.2	46.4	21	23.4	29.4	21	4.2	14	21	10	65 [2.293]
ATBZ12-03-□				33.5	37.7			30.2						17
TBZ12-04-□	12	R1/2	15	45.2	47.5	21	23.4	29.4	21	4.2	14	21	10	81 [2.857]
ATBZ12-04-□				38	40.3			31.2						21

* - □ ⇒ Select either blank (standard) or D (non-lubricant specification)

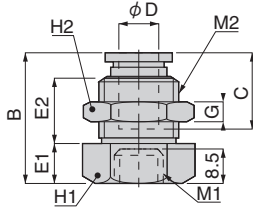
* The L dimension for the tapered thread types is a reference dimension when mated and tightened.

* Prices are the same.

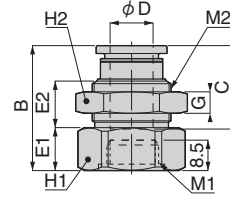
Supply joint

SKR/ASKR Reducer for bulkhead

● Existing model **SKR**



● New model **ASKR**



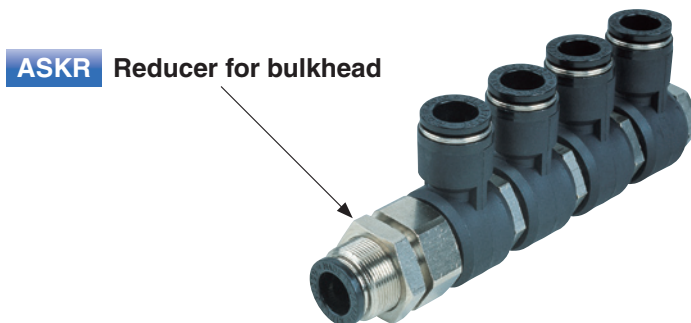
indicates portion of new models (new shapes) that have changed in dimension.

Unit: mm

Model	Tube outer diameter ϕD	M1	M2	B	E1	E2	C	G	H1	H2	Effective cross section area (mm ²)	Mass g [oz]
SKR8-4	4	M8×1	M12×1	26	8	13.4	14.9	4	14	14	5.6	19 [0.670]
ASKR8-4						11.8						18 [0.635]
SKR8-6	6	M8×1	M14×1	28.1	8	14.9	17	4	17	17	11.5	29 [1.023]
ASKR8-6						13.9						
SKR12-6	6	M12×1	M14×1	28.1	12	10.9	17	4	17	17	13.2	28 [0.988]
ASKR12-6						9.9						
SKR12-8	8	M12×1	M16×1	28.9	10	13.4	18.2	4	19	19	27.4	34 [1.199]
ASKR12-8						11.7						33 [1.164]
SKR12-10	10	M12×1	M20×1	32.3	10	16.4	20.7	5	22	24	34.8	60 [2.116]
ASKR12-10						13.7						57 [2.011]
SKR14-8	8	M14×1	M16×1	28.9	12	11.4	18.2	4	19	19	27.7	33 [1.164]
ASKR14-8						9.7						32 [1.129]
SKR14-10	10	M14×1	M20×1	32.3	10	16.4	20.7	5	24	24	41.7	64 [2.258]
ASKR14-10						13.7						60 [2.116]
SKR14-12	12	M14×1	M22×1	34.9	12	17.4	23.3	6	24	27	54.7	78 [2.751]
ASKR14-12						13						74 [2.610]
SKR18-12	12	M18×1	M22×1	34.9	12	17.4	23.3	6	27	27	66.7	83 [2.928]
ASKR18-12						13						79 [2.787]

* Prices are the same.

Supply joint (assembly side)



List of models and their specifications

* See the following table for combinations of models of fittings, tube size, and thread size.

Regarding NCU specifications, the "←" indicates that the standard model can be used as NCU specifications, so order the standard model.

● The dimension diagram for the following NCU specifications and the CS specifications are the same as the standard model or the non-lubricant specifications. Refer to the dimension diagrams on pages ① to ⑤.

● Standard type models of quick fittings

Name	Tube outer diameter	Thread size	Standard model or non-lubricant specifications	NCU Specification	CS Specification	
Branch elbow Y ATBLY	4	M5×0.8	ATBLY4-M5-□	←	CS-ATBLY4-M5	
		M6×1	ATBLY4-M6-□	←	CS-ATBLY4-M6	
		R1/8	ATBLY4-01-□	NCU-ATBLY4-01	CS-ATBLY4-01	
		R1/4	ATBLY4-02-□	NCU-ATBLY4-02	CS-ATBLY4-02	
	6	M5×0.8	ATBLY6-M5-□	←	CS-ATBLY6-M5	
		M6×1	ATBLY6-M6-□	←	CS-ATBLY6-M6	
		R1/8	ATBLY6-01-□	NCU-ATBLY6-01	CS-ATBLY6-01	
		R1/4	ATBLY6-02-□	NCU-ATBLY6-02	CS-ATBLY6-02	
		R3/8	ATBLY6-03-□	NCU-ATBLY6-03	CS-ATBLY6-03	
		R1/8	ATBLY8-01-□	NCU-ATBLY8-01	CS-ATBLY8-01	
	8	R1/4	ATBLY8-02-□	NCU-ATBLY8-02	CS-ATBLY8-02	
		R3/8	ATBLY8-03-□	NCU-ATBLY8-03	CS-ATBLY8-03	
		R1/4	ATBLY10-02-□	NCU-ATBLY10-02	CS-ATBLY10-02	
	10	R3/8	ATBLY10-03-□	NCU-ATBLY10-03	CS-ATBLY10-03	
		R1/2	ATBLY10-04-□	NCU-ATBLY10-04	CS-ATBLY10-04	
		R1/4	ATBLY12-02-□	NCU-ATBLY12-02	CS-ATBLY12-02	
	12	R3/8	ATBLY12-03-□	NCU-ATBLY12-03	CS-ATBLY12-03	
		R1/2	ATBLY12-04-□	NCU-ATBLY12-04	CS-ATBLY12-04	
		6-4	R1/8	ATBE6-4-01-□	NCU-ATBE6-4-01	CS-ATBE6-4-01
	Branch triple ATBE	8-4	R1/4	ATBE8-4-02-□	NCU-ATBE8-4-02	CS-ATBE8-4-02
		8-6	R1/4	ATBE8-6-02-□	NCU-ATBE8-6-02	CS-ATBE8-6-02
		10-8	R3/8	ATBE10-8-03-□	NCU-ATBE10-8-03	CS-ATBE10-8-03
			R1/4	ATBEW8-4-02-□	NCU-ATBEW8-4-02	CS-ATBEW8-4-02
	Branch triple double ATBEW	8-4	R3/8	ATBEW8-4-03-□	NCU-ATBEW8-4-03	CS-ATBEW8-4-03
R1/4			ATBEW8-6-02-□	NCU-ATBEW8-6-02	CS-ATBEW8-6-02	
8-6		R3/8	ATBEW8-6-03-□	NCU-ATBEW8-6-03	CS-ATBEW8-6-03	
		R3/8	ATBEW10-6-03-□	NCU-ATBEW10-6-03	CS-ATBEW10-6-03	
10-6		R1/2	ATBEW10-6-04-□	NCU-ATBEW10-6-04	CS-ATBEW10-6-04	
		R3/8	ATBEW10-8-03-□	NCU-ATBEW10-8-03	CS-ATBEW10-8-03	
10-8	R1/2	ATBEW10-8-04-□	NCU-ATBEW10-8-04	CS-ATBEW10-8-04		
	Branch double Y ATBW	4	R1/8	ATBW4-01-□	NCU-ATBW4-01	CS-ATBW4-01
6		R1/8	ATBW6-01-□	NCU-ATBW6-01	CS-ATBW6-01	
Branch tetra ATBZ	4	M5×0.8	ATBZ4-M5-□	←	CS-ATBZ4-M5	
		M6×1	ATBZ4-M6-□	←	CS-ATBZ4-M6	
		R1/8	ATBZ4-01-□	NCU-ATBZ4-01	CS-ATBZ4-01	
		R1/4	ATBZ4-02-□	NCU-ATBZ4-02	CS-ATBZ4-02	
	6	M5×0.8	ATBZ6-M5-□	←	CS-ATBZ6-M5	
		M6×1	ATBZ6-M6-□	←	CS-ATBZ6-M6	
		R1/8	ATBZ6-01-□	NCU-ATBZ6-01	CS-ATBZ6-01	
		R1/4	ATBZ6-02-□	NCU-ATBZ6-02	CS-ATBZ6-02	
		R3/8	ATBZ6-03-□	NCU-ATBZ6-03	CS-ATBZ6-03	
		R1/8	ATBZ8-01-□	NCU-ATBZ8-01	CS-ATBZ8-01	
	8	R1/4	ATBZ8-02-□	NCU-ATBZ8-02	CS-ATBZ8-02	
		R3/8	ATBZ8-03-□	NCU-ATBZ8-03	CS-ATBZ8-03	
		R1/4	ATBZ10-02-□	NCU-ATBZ10-02	CS-ATBZ10-02	
	10	R3/8	ATBZ10-03-□	NCU-ATBZ10-03	CS-ATBZ10-03	
		R1/2	ATBZ10-04-□	NCU-ATBZ10-04	CS-ATBZ10-04	
		R1/4	ATBZ12-02-□	NCU-ATBZ12-02	CS-ATBZ12-02	
	12	R3/8	ATBZ12-03-□	NCU-ATBZ12-03	CS-ATBZ12-03	
		R1/2	ATBZ12-04-□	NCU-ATBZ12-04	CS-ATBZ12-04	

* - □ ⇒ Select either blank (standard) or D (non-lubricant specification)

● Models of supply joints

Name	Tube outer diameter	Thread size	Standard model or non-lubricant specifications	NCU Specification	CS Specification
Reducer for bulkhead ASKR	4	M8×1	ASKR8-4	←	CS-ASKR8-4
	6	M8×1	ASKR8-6	←	CS-ASKR8-6
	6	M12×1	ASKR12-6	←	CS-ASKR12-6
	8	M12×1	ASKR12-8	←	CS-ASKR12-8
	10	M12×1	ASKR12-10	←	CS-ASKR12-10
	8	M14×1	ASKR14-8	←	CS-ASKR14-8
	10	M14×1	ASKR14-10	←	CS-ASKR14-10
	12	M14×1	ASKR14-12	←	CS-ASKR14-12
	12	M18×1	ASKR18-12	←	CS-ASKR18-12

Limited Warranty

KOGANEI CORP. warrants its products to be free from defects in material and workmanship subject to the following provisions.

Warranty Period The warranty period is 180 days from the date of delivery.

Koganei Responsibility If a defect in material or workmanship is found during the warranty period, KOGANEI CORP. will replace any part proved defective under normal use free of charge and will provide the service necessary to replace such a part.

Limitations

- This warranty is in lieu of all other warranties, expressed or implied, and is limited to the original cost of the product and shall not include any transportation fee, the cost of installation or any liability for direct, indirect or consequential damage or delay resulting from the defects.

- KOGANEI CORP. shall in no way be liable or responsible for injuries or damage to persons or property arising out of the use or operation of the manufacturer's product.

- This warranty shall be void if the engineered safety devices are removed, made inoperative or not periodically checked for proper functioning.

- Any operation beyond the rated capacity, any improper use or application, or any improper installation of the product, or any substitution upon it with parts not furnished or approved by KOGANEI CORP., shall void this warranty.

- This warranty covers only such items supplied by KOGANEI CORP. The products of other manufacturers are covered only by such warranties made by those original manufacturers, even though such items may have been included as the components.

The specifications are subject to change without notice.

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