

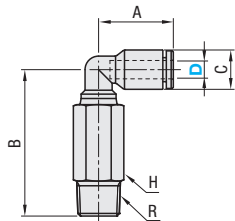
One-Touch Couplings

Long Elbows



MSELG

Thread: EN CW614N Equiv. (Brass)
: Electroless Nickel Plating



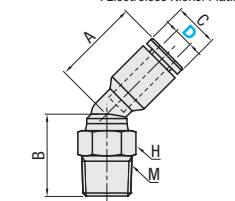
Material: Body: PBT (Polybutylene Terephthalate)

Male Threaded 45° Elbows



MSEFE

Thread: EN CW614N Equiv. (Brass)
: Electroless Nickel Plating

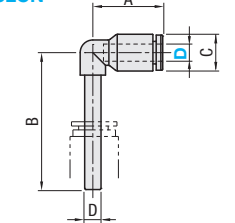


Material: PBT (Polybutylene Terephthalate)

L-Connectors



USLCN



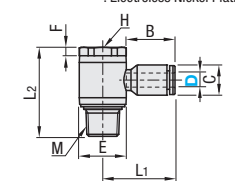
Material: PBT (Polybutylene Terephthalate)

Turn Elbow Unions



USYELN

Thread: EN CW614N Equiv. (Brass)
: Electroless Nickel Plating



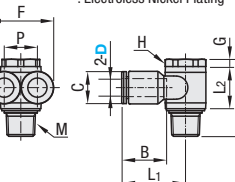
Material: PBT (Polybutylene Terephthalate)

2-Port Swivel Elbows



USTE

Thread: EN CW614N Equiv. (Brass)
: Electroless Nickel Plating



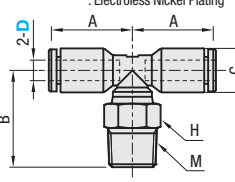
Material: PBT (Polybutylene Terephthalate)

Union Tees



MSTEL

Thread: EN CW614N Equiv. (Brass)
: Electroless Nickel Plating



Material: PBT (Polybutylene Terephthalate)

Part Number	Type	D	Nominal	A	B	C	Wrench Flats H	Thread Size R	Effective Sectional Area (mm²)	Mass (g)	Unit Price	Volume Discount Rate
MSELG	4	1	17.1	30.3	9	10	R1/8	4.4	14.7	15.5	1-9 pcs/	10-50
		2	18.0	31.4	11.2	10	R1/8	8.5	15.5	31.8		
		3	23.6	35.3	13.6	10	R1/8	18.6	35.8	50		
	8	1	23.6	37.8	13.6	14	R1/4	15.0	59.4	58.2		
		2	23.6	38.8	13.6	17	R3/8	31.5	58.2	94.4		
		3	25	47.8	16.3	17	R1/4	41.7	65	63.8		
	10	1	25	47.3	16.3	17	R3/8	41.7	65	63.8		
		2	25	50.3	16.3	21	R1/2	41.7	65	63.8		
		3	32.2	49.7	19.7	17	R1/4	41.7	65	63.8		
	12	1	32.2	49.7	19.7	17	R1/4	41.7	65	63.8		
		2	32.2	49.7	19.7	17	R1/4	41.7	65	63.8		
		3	32.2	49.7	19.7	17	R3/8	41.7	65	63.8		

Part Number		Nominal	A	B	C	Wrench Flats H	Thread Size M	Effective Sectional Area (mm²)	Mass (g)	Unit Price 1-9 pcs/	Volume Discount Rate 10-50
Type	D										
MSEFE	4	1	17.1	16.3	9	10	R 1/8	4.4	6.5	14.5	
		2	17.1	19.3		14	R1/4	3.2	5	7.5	
	6	1	18.0	16.9	11.2	10	R 1/8	8.5	15	24	
		2	18.0	19.9		14	R1/4	8.5	15	24	
		3	18.0	20.9	17	R3/8	8.5	15	24		
		1	23.6	17.5	10	R 1/8	15.0	15	23		
	8	2	23.6	20	13.6	14	R1/4	15.0	15	23	
		3	23.6	21		17	R3/8	15.0	15	23	
		1	25	19.6	16.3	17	R1/8	22.1	18	22	
		2	25	22.6		17	R1/4	22.1	18	22	
	10	3	25	22.1		17	R3/8	31.5	23	39.5	
		4	25	25.1		21	R1/2	31.5	23	39.5	
	2	32.2	24.1	19.7	17	R1/4	41.7	27	28		
	3	32.2	23.6		17	R3/8	41.7	27	28		
12	4	32.2	26.6		21	R1/2	42.6	28	44.5		

Part Number	Type	D	Nominal	A	B	C	Effective Sectional Area (mm²)	Mass (g)	Unit Price	Volume Discount Rate
USLCN	4	1	17.1	33.5	9	3.2	1.5	1.5		
	6	1	18.0	42.1	11.2	6.3	3	3		
	8	1	23.6	47.8	13.6	20.3	5	5		
	10	1	25	53.7	16.3	27.0	7	7		
	12	1	32.2	60.9	19.7	40.6	13.5	13.5		

Part Number	Type	D	Nominal	L1	B	F	E	L2	C	Wrench Flats H	Thread Size M	Mass (g)	Unit Price	Volume Discount Rate
USYELN	4	1	21.5	14.5	2.5	14	26.5	9	13	R1/8	15.5	8.2		
		2	20.5		2.5	10	17.8	8	M5x0.8	8.2				
		3	22.5	15.5	2.5	14	26.5	13	R1/8	16.5				
	6	1	25		3	19	34	17	R1/4	30.5				
		2	26.7		4	22.4	39.8	21	R3/8	50.5				
		3	25.6		2.5	14	26.5	13	R1/8	17.5				
	8	1	28.1	17.8	3	19	34	17	R1/4	31.5				
		2	29.8		4	22.4	39.8	21	R3/8	51				
		3	28.9		3	19	34	17	R1/4	33				
	10	1	30.6	19.4	4	22.4	39.8	21	R3/8	52.5				
		2	32.9		5	27	44.8	24	R1/2	84.5				
		3	36.5	24.5	4.5	18.4	28.9	21.2	14	R1/4	64			

Part Number	Type	D	L1	L2	L3	B	C	G	F	P	Wrench Flats H	Thread Size M	Mass (g)	Unit Price	Volume Discount Rate
USTE	4	1	18.6	11.8	17.8	14.5	9	2.5	18.3	9.3	8	M5x0.8	7.4		
	6	1	22	14.5	26.5	15.5	11.2	2.5	22.6	13	13	R1/8	18.5		
	8	1	28.1	18	34	17.8	13.6	3	27.8	17	17	R1/4	35		
	10	1	27.5	18	34	19.4	16.3	3	33.3	17	17	R1/4	57.5		
	12	1	34.9	22	44.8	22.4	19.7	5	39.7	20	24	R1/2	98		

Part Number	Type	D	Nominal	A	B	C	Wrench Flats H	Thread Size M	Effective Sectional Area (mm²)	Mass (g)	Unit Price	Volume Discount Rate
MSTEL	4	M5	17.1	16.6	9	9	M5x0.8	3.2	6.2	6.2	1-9 pcs/	10-50
		1	19.8		10	R1/8	4.4	9.5				
		2	22.8		14	R1/4	18.7					
	6	M5	17.7		9	M5x0.8	3.2	7.7				
		1	20.9		10	R1/8	11					
		2	23.9		14	R1/4	20.2					
	8	1	24.9		17	R3/8	29.5					
		2	23.5		10	R1/8	14.9					
		3	23.6		14	R1/4	23.6					
	10	1	25.8			R1/8	22.1	26.3				
		2	28.8		17	R1/4	31.5	33				
		3	28.3			R3/8	41.7	41.7				

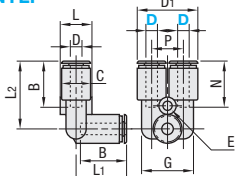
Applicable Fluid	Air
Operating Temperature Range*	0~60°C
Max. Operating Pressure	0.9MPa
Operating Vacuum Level	~100kPa
* No Freezing	

The whole of the threaded part EN CW614N Equiv. (brass) is plated with electroless nickel. It is also seal-coated and does not need sealant tape (except for M5).

FY Type Elbow Unions



UNYLF



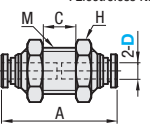
Material: PBT (Polybutylene Terephthalate)

Bulkhead Unions



MSBUL

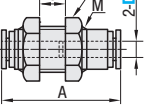
Threads: EN CW614N Equiv. (Brass)
: Electroless Nickel Plating



Material: Ring: PBT (Polybutylene Terephthalate)

MJBULS

Thread: EN 1.4301 Equiv.

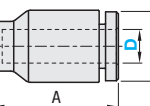


Material: Ring: PBT (Polybutylene Terephthalate)

Caps



MSCAP



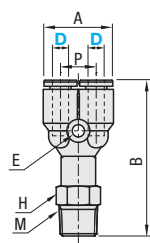
Material: PBT (Polybutylene Terephthalate)

Y Type



MSYL

Thread: EN CW614N Equiv. (Brass)
: Electroless Nickel Plating

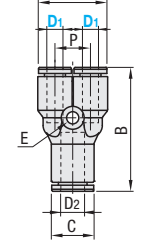


Material: PBT (Polybutylene Terephthalate)

Stepped Diameter Union-Y



USDY

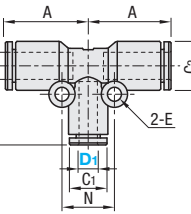


Material: PBT (Polybutylene Terephthalate)

Stepped Unions Tees



USDTE



Material: PBT (Polybutylene Terephthalate)

Part Number	Type	D	L1	L2	B	C	D1	E	L	G	N	P	Mass (g)	Unit Price	Volume Discount Rate
UNYLF	4	17.5	23.5	16	10	21	3.2	11	18	15.5	11	8			
	6	19.5	27	17.5	12.5	26	4.2	13.5	22.5	17	13.5	12			
	8	22	29	19	14.5	30	4.2	15.5	26.5	18	15.5	16			
	10	25.5	33	21.5	17.5	36	4.2	18.5	31.5	20	18.5	25			
	12	28	35.5	23	20	41	4.2	21	37	21.5	21	34			

Part Number	Type	D	A	Wrench Flats H	Thread Size MxPitch	C(max)	Effective Sectional Area (mm²)	Mass (g)	Unit Price	Volume Discount Rate	MSBUL	MJBULS
MSBUL MJBULS	4	30 (33)	14	M12x1	8.6 (7.5)	3.2 (4)	16 (20)					
	6	31.9 (36)	17	M14x1	9.4 (9.5)	11.0 (10)	22 (33)					
	8	37 (39)	19	M16x1	10.6 (12.5)	25.2 (22)	31.5 (42)					
	10	40.1 (44.5)	24	M20x1	12.9 (18)	38.7 (30)	54.5 (75)					
	12	45.8 (47)	26	M22x1	15.4 (21)	44.6 (35)	70.5 (92)					

Values in () are for MJBULS.

Part Number	Type	D	A	C	Mass (g)	Unit Price	Volume Discount Rate
MSCAP	4	15.6	9	1.5			
	6	17	11.2	2			
	8	19.8	13.6	3.5			
	10	21	16.3	5			
	12	25.4	19.7	9.5			

Part Number	Nominal	A	B	E	Wrench Flats H	P	Thread Size M	Effective Sectional Area (mm²)	Mass (g)	Unit Price	Volume Discount Rate
Type	D									1-9 pcs	10-50
MSYL	4	M5	18.3	37.4	9	9.3	M5x0.8	3.2	8.9		
		1	40.6	10	R1 / 8	5.3	11.6				
		2	43.6	14	R1 / 4	20.5					
	6	M5	22.6	40.5	11	11.4	M5x0.8	3.2	12.9		
		1		43.7	11	R1 / 8	15.2				
		2		46.7	14	R1 / 4	23.1				
	8	3	47.7	17	R3 / 8	35.2					
		1	52.6	13	R1 / 8	23.3					
		2	55.1	14	R1 / 4	27.9					
	10	3	56.1	17	R3 / 8	36.2					
		2	33.3	56	17	R1 / 4	42.1	35.2			
		3		58	17	R3 / 8	46.9	40.8			
	2	65.9		19	R1 / 4	53.7					
	12	3	39.7	67.9	19	R3 / 8	42.3	59.5			
		4		70.9	21	R1 / 2	58.7	74.9			