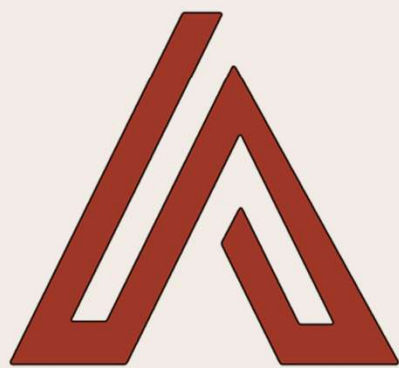




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Fittings Catalog

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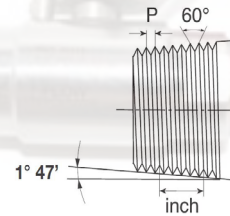
Nut RL 112 N  3	Reducing Union RL 113 UR  10	Male Run Tee RL 128 MRT  31	Male Adapter Tube To Pipe RL139 MA  39
Union RL 113 U  4	Male Connector RL 116 MC, MCI, MCP  12	Female Branch Tee RL129 FBT  32	Cap RL 141 C  41
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Reference Information

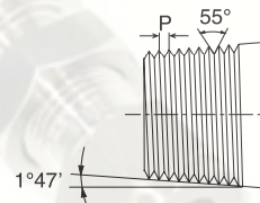
NPT Standard:

1. 60° Thread angle.
2. Pitch measured in inches.
3. Truncation of root and crest is flat.
4. Taper angle 1° 47'.
5. NPT threads are made in accordance with ANSI/ASME B1.20.1.



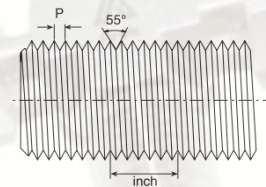
ISO Taper Thread:

1. 55° Thread angle.
2. Pitch measured in inches.
3. Truncation of root and crest is flat.
4. Taper angle 1° 47'.
5. NPT threads are made in accordance with,
 - DIN - ISO 2999
 - BS - 21
 - JIS - B0203
 - ISO - 7/1-BSP-T



Parallel Thread:

1. 55° Thread angle
2. Pitch measured in inches
3. Truncation of root and crest is round
4. Diameter measured in inches
5. NPT threads are made in accordance with,
 - DIN - ISO 228/1
 - BS - 2779
 - JIS - B0202
 - ISO - 228/1-BSP-P



Tube Fitting Assembly Instructions:

1. Insert the tube until it rests firmly on the fitting shoulder inside the bore and finger tight the nut.
2. Tighten the nut with a wrench until the tube does not rotate freely.
3. Mark the position of the nut. Rotate the nut at least one full turn.
4. Caution: DO NOT overtighten the nut.

Suggested Allowable Working Pressure for Stainless Steel Tubing

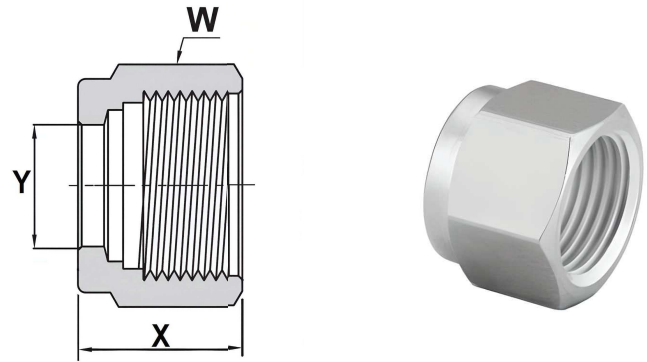
Table-1

Tube OD in.	Tube Wall Thickness, in.															
	0.010	0.012	0.014	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.156	0.188
	Max. Allowable Working Pressure, psig															
1/16	5545	6805	8095	9425	11835											
1/8						8495	10675									
3/16						5445	7045	10095								
1/4						4045	5145	7545	10095							
5/16							4045	5845	7920							
3/8							3295	4795	6470							
1/2							2595	3695	5095	6470						
5/8								2895	4995	5195	5890					
3/4								2395	3295	4195	4895	5600				
7/8								1995	2795	3595	4195	4785				
1									2045	2645	3145	3645	3930			
1 1/4										2345	2745	3245	3545	4045	4730	
1 1/2											2245	2645	2945	3345	3945	4730
2												1945	2145	2445	2845	3545

Notes:

- The allowable working pressure at –20 to 100°F (–28 to 37°C).
- Material of construction is 316 SS.

RL 112 N NUT



METRIC

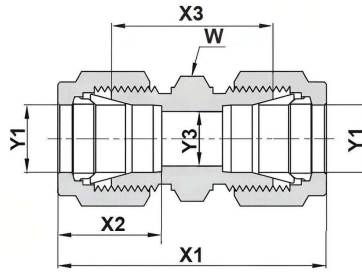
Ordering Information	Y Tube O.D. mm	W Hex.Flat mm	X mm
RL112 N _ 2	2	12	11.9
RL112 N _ 3	3	12	11.9
RL112 N _ 4	4	12	11.9
RL112 N _ 6	6	14	12.7
RL112 N _ 8	8	16	13.5
RL112 N _ 10	10	19	15.1
RL112 N _ 12	12	22	17.4
RL112 N _ 14	14	25	17.4
RL112 N _ 15	15	25	17.4
RL112 N _ 16	16	25	17.4
RL112 N _ 18	18	30	17.4
RL112 N _ 20	20	32	17.4
RL112 N _ 22	22	32	17.4
RL112 N _ 25	25	38	20.6
RL112 N _ 38	38	60	40.6
RL112 N _ 50	50	inch 3	54.0

INCH

Ordering Information	Y Tube O.D.		W Hex.Flat inch	X	
	inch	mm		inch	mm
RL112 N _ 1/16	1/16	1.58	5/16	.31	7.87
RL112 N _ 1/8	1/8	3.17	7/16	.47	11.93
RL112 N _ 3/16	3/16	4.76	1/2	.47	11.93
RL112 N _ 1/4	1/4	6.35	9/16	.50	12.70
RL112 N _ 5/16	5/16	7.93	5/8	.53	13.46
RL112 N _ 3/8	3/8	9.52	11/16	.56	14.22
RL112 N _ 1/2	1/2	12.70	7/8	.69	17.52
RL112 N _ 5/8	5/8	15.87	1	.69	17.52
RL112 N _ 3/4	3/4	19.05	1-1/8	.69	17.52
RL112 N _ 7/8	7/8	22.22	1-1/4	.69	17.52
RL112 N _ 1	1	25.40	1-1/2	.81	20.57
RL112 N _ 1-1/4	1-1/4	31.75	1- 7/8	1.25	31.75
RL112 N _ 1-1/2	1-1/2	38.10	2-1/4	1.50	38.10
RL112 N _ 2	2	50.80	3	2.06	52.32



RL 113 U UNION



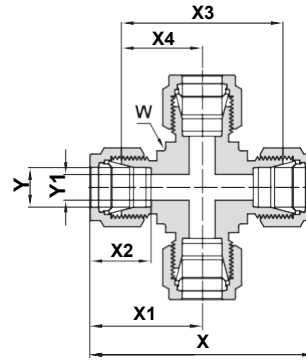
TUBE (METRIC) TO TUBE (METRIC)

Ordering Information	Y1 Tube O.D.	Y3 (min.)	W Hex. Flat	X3	X1	X2
	mm	mm	mm	mm	mm	mm
RL113 U _ 2	2	1.7	12	22.4	35.6	12.9
RL113 U _ 3	3	2.4	12	22.1	35.3	12.9
RL113 U _ 4	4	2.4	12	24.1	37.3	13.7
RL113 U _ 6	6	4.8	14	26.2	41.0	15.3
RL113 U _ 8	8	6.4	15	28.2	43.2	16.2
RL113 U _ 10	10	7.9	18	31.0	46.2	17.2
RL113 U _ 12	12	9.5	22	31.0	51.2	22.8
RL113 U _ 14	14	11.1	24	31.8	52.0	24.4
RL113 U _ 15	15	11.9	24	31.8	52.0	24.4
RL113 U _ 16	16	12.7	24	31.8	52.0	24.4
RL113 U _ 18	18	15.1	27	33.3	53.5	24.4
RL113 U _ 20	20	15.9	30	34.8	55.0	26.0
RL113 U _ 22	22	18.3	30	34.8	55.0	26.0
RL113 U _ 25	25	21.8	35	40.4	65.0	31.3
RL113 U _ 30	30	26.2	46	49.5	92.7	39.6
RL113 U _ 32	32	28.6	46	51.3	97.3	42
RL113 U _ 38	38	33.7	55	58.4	114.0	49.4
RL113 U _ 50	50	45.2	3 inch	71.7	146.0	65.0

TUBE (INCH) TO TUBE (INCH)

Ordering Information	Y1 Tube O.D.		Y3 (min.)		W Hex. Flat	X3		X1		X2	
	Inch	mm	Inch	mm		Inch	mm	Inch	mm	Inch	mm
RL113 U _ 1/16	1/16	1.58	.05	1.27	5/16	.69	17.52	.99	25.14	.34	8.6
RL113 U _ 1/8	1/8	3.17	.09	2.28	7/16	.88	22.35	1.40	35.56	.50	12.7
RL113 U _ 3/16	3/16	4.76	.12	3.04	7/16	.95	24.13	1.47	37.33	.54	13.7
RL113 U _ 1/4	1/4	6.35	.19	4.82	1/2	1.03	26.16	1.61	40.89	.60	15.2
RL113 U _ 5/16	5/16	7.93	.25	6.35	9/16	1.11	28.19	1.69	42.92	.64	16.2
RL113 U _ 3/8	3/8	9.52	.28	7.11	5/8	1.19	30.22	1.77	44.95	.66	16.8
RL113 U _ 1/2	1/2	12.70	.41	10.41	13/16	1.22	30.98	2.02	51.30	.90	22.9
RL113 U _ 5/8	5/8	15.87	.50	12.70	15/16	1.25	31.75	2.05	52.07	.96	24.4
RL113 U _ 3/4	3/4	19.05	.62	15.75	1-1/16	1.31	33.27	2.11	53.59	.96	24.4
RL113 U _ 7/8	7/8	22.22	.72	18.28	1-3/16	1.37	34.80	2.17	55.11	1.02	25.9
RL113 U _ 1	1	25.40	.88	22.35	1-3/8	1.59	40.38	2.55	64.77	1.23	31.2
RL113 U _ 1-1/4	1-1/4	31.75	1.09	27.70	1-3/4	1.89	48.00	3.63	92.20	1.62	41.2
RL113 U _ 1-1/2	1-1/2	38.10	1.34	34.00	2-1/8	2.11	53.60	4.25	107.95	1.97	50.0
RL113 U _ 2	2	50.80	1.81	45.97	2-3/4	2.94	74.67	5.88	149.35	2.66	67.6

RL 113 UC UNION CROSS



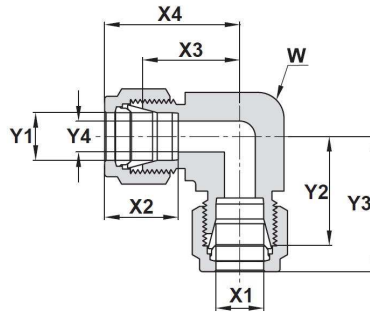
TUBE (METRIC)

Ordering Information	Y Tube O.D.		Y1 (min.)		W Wrench Flat		X4		X1		X3		X		X2	
	mm	mm	mm	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
RL 113 UC_3	3		2.4		3/8	9.5	15.7		22.3		31.5		44.7		12.9	
RL 113 UC_6	6		4.8		1/2	12.7	19.6		27.0		39.1		53.9		15.3	
RL 113 UC_8	8		6.4		5/8	15.9	22.4		29.9		44.7		59.7		16.2	
RL 113 UC_10	10		7.9		13/16	20.6	25.9		33.5		51.8		67.0		17.2	
RL 113 UC_12	12		9.5		13/16	20.6	25.9		36.0		51.8		72.0		22.8	
RL 113 UC_16	16		12.7		15/16	23.8	26.9		37.0		53.8		74.0		24.4	
RL 113 UC_18	18		15.1		1 1/16	27.0	28.2		38.3		56.4		76.6		24.4	
RL 113 UC_20	20		15.9		1 3/8	34.9	34.5		44.6		69.0		89.3		26.0	
RL 113 UC_22	22		18.3		1 3/8	34.9	34.6		44.7		69.1		89.4		26.0	
RL 113 UC_25	25		21.8		1 3/8	34.9	36.8		49.1		73.7		98.3		31.3	

ALL TUBES (INCH)

Ordering Information	Y Tube O.D.		Y1 min.		W Wrench Flat		X4		X1		X3		X		X2	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL 113 UC_ 1/8	1/8	3.17	.09	2.28	3/8	9.5	.62	15.74	.88	22.35	1.24	31.48	1.76	44.70	.50	12.7
RL 113 UC_ 1/4	1/4	6.35	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	1.54	39.12	2.12	53.84	.60	15.2
RL 113 UC_ 5/16	5/16	7.93	.25	6.35	5/8	15.9	.88	22.35	1.17	29.71	1.76	44.70	2.34	59.42	.64	16.2
RL 113 UC_ 3/8	3/8	9.52	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.82	46.22	2.40	60.96	.66	16.8
RL 113 UC_ 1/2	1/2	12.70	.41	10.41	13/16	20.6	1.02	25.9	1.42	36.07	2.04	51.80	2.84	72.14	.90	22.9
RL 113 UC_ 3/4	3/4	19.05	.62	15.74	1 1/16	27.0	1.17	29.72	1.57	39.88	2.34	59.44	3.14	79.76	.96	24.4
RL 113 UC_ 1	1	25.40	.88	22.35	1 3/8	34.9	1.45	36.8	1.93	49.02	2.90	73.60	3.86	98.04	1.23	31.2

RL 113 UE UNION ELBOW



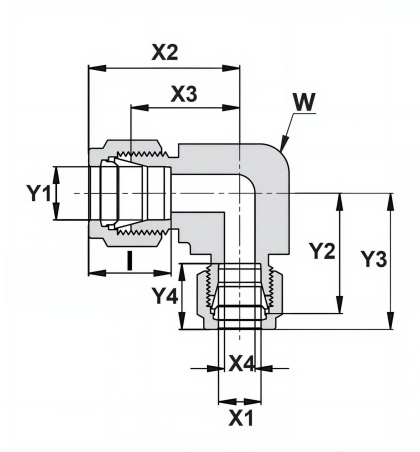
TUBE (METRIC) TO TUBE (METRIC)

Ordering Information	Y1 Tube O.D. mm	Y4 (min.) mm	W Wrench Flat		X3 Y2 mm	X4 Y3 mm	X2 mm
			inch	mm			
RL113 UE _ 3	3	2.4	3/8	9.5	15.7	22.3	12.9
RL113 UE _ 4	4	2.4	1/2	12.7	18.8	25.4	13.7
RL113 UE _ 6	6	4.8	1/2	12.7	19.6	27.0	15.3
RL113 UE _ 8	8	6.4	9/16	14.3	21.3	28.8	16.2
RL113 UE _ 10	10	7.9	11/16	17.5	23.9	31.5	17.2
RL113 UE _ 12	12	9.5	13/16	20.6	25.9	36.0	22.8
RL113 UE _ 14	14	11.1	15/16	23.8	27.9	38.0	24.4
RL113 UE _ 15	15	11.9	15/16	23.8	27.9	38.0	24.4
RL113 UE _ 16	16	12.7	15/16	23.8	27.9	38.0	24.4
RL113 UE _ 18	18	15.1	1-1/16	27.0	29.7	39.8	24.4
RL113 UE _ 20	20	15.9	1-3/8	34.9	34.5	44.6	26.0
RL113 UE _ 22	22	18.3	1-3/8	34.9	34.5	44.6	26.0
RL113 UE _ 25	25	21.8	1-3/8	34.9	36.8	49.1	31.3
RL113 UE _ 38	38	33.7	-	55.0	56.4	84.0	49.4
RL113 UE _ 50	50	45.2	2-3/4	69.9	68.9	106.0	65.0

TUBE (INCH) TO TUBE (INCH)

Ordering Information	Y1 Tube O.D.		Y4 (min.)		W Wrench Flat		X3 Y2		X4 Y3		X2	
	inch	mm	Inch	mm	inch	mm	Inch	mm	Inch	mm	Inch	mm
RL113 UE _ 1/16	1/16	1.58	.05	1.27	3/8	9.5	.55	14.00	.70	17.80	.34	.86
RL113 UE _ 1/8	1/8	3.17	.09	2.28	3/8	9.5	.62	15.74	.88	22.35	.50	12.7
RL113 UE _ 3/16	3/16	4.76	.12	3.04	1/2	12.7	.74	18.80	1.00	25.40	.54	13.7
RL113 UE _ 1/4	1/4	6.35	.19	4.82	1/2	12.7	.77	19.55	1.06	26.92	.60	15.2
RL113 UE _ 5/16	5/16	7.93	.25	6.35	9/16	14.3	.84	21.33	1.13	28.70	.64	16.2
RL113 UE _ 3/8	3/8	9.52	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	.66	16.8
RL113 UE _ 1/2	1/2	12.70	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.06	.90	22.9
RL113 UE _ 5/8	5/8	15.87	.50	12.70	15/16	23.8	1.10	27.94	1.50	38.10	.96	24.4
RL113 UE _ 3/4	3/4	19.05	.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.90	.96	24.4
RL113 UE _ 7/8	7/8	22.22	.72	18.29	1-3/8	34.9	1.36	34.54	1.76	44.70	1.02	25.9
RL113 UE _ 1	1	25.40	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.00	1.23	31.2
RL113 UE _ 1-1/4	1-1/4	31.75	1.09	27.70	1-11/16	42.9	1.75	44.50	2.62	66.55	1.62	41.2
RL113 UE _ 1-1/2	1-1/2	38.10	1.34	34.00	2	50.8	2.00	50.80	3.07	77.98	1.97	50.0
RL113 UE _ 2	2	50.80	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.66	67.6

RL 113 UER REDUCING UNION ELBOW



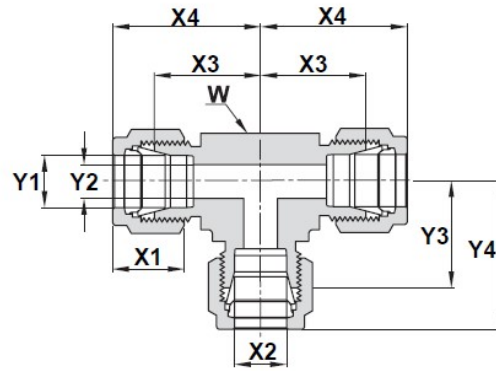
TUBE (METRIC) TO TUBE (INCH)

Ordering Information	Y1	X1	X2	Y3	I	Y4	X4 (min.)	W Wrench Flat		X3	Y2
	Tube O.D. mm	Tube O.D. Inch	mm	mm	mm	mm	mm	inch	mm	mm	mm
RL113 UER _6 X 1/4	6	1/4	27.0	27.0	15.3	15.2	4.8	1/2	12.7	19.6	19.6
RL113 UER _8 X 1/4	8	1/4	28.8	28.8	16.2	15.2	4.8	9/16	14.3	21.3	21.3

TUBE (INCH) TO TUBE (INCH)

Ordering Information	Y1 Tube O.D.		X1 Tube O.D.		X2		Y3		I		Y4		X4 (min.)		W Wrench Flat		X3		Y2	
	Inch	mm	inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
RL113 UER _3/8 X 1/4	3/8	9.52	1/4	6.35	1.20	30.48	1.20	30.48	.66	16.8	60.	15.2	19.	4.82	5/8	15.9	.91	23.11	.91	23.11
RL113 UER _5/8 X 3/8	5/8	15.87	3/8	9.52	1.50	38.10	1.39	35.31	.96	24.4	.66	16.8	.28	7.11	15/16	23.8	1.10	27.94	1.10	27.94

RL 113 UT UNION TEE



TUBE (METRIC)

Ordering Information	Y1 Tube O.D. mm	Y2 (min.) mm	W Wrench Flat		X3 Y3 mm	X4 Y4 mm	X2 mm
			inch	mm			
RL113 UT_2	2	1.7	3/8	9.5	15.7	22.3	12.9
RL113 UT_3	3	2.4	3/8	9.5	15.7	22.3	12.9
RL113 UT_4	4	2.4	1/2	12.7	18.8	25.4	13.7
RL113 UT_6	6	4.8	1/2	12.7	19.6	27.0	15.3
RL113 UT_8	8	6.4	5/8	15.9	22.4	29.9	16.2
RL113 UT_10	10	7.9	11/16	17.5	23.9	31.5	17.2
RL113 UT_12	12	9.5	13/16	20.6	25.9	36.0	22.8
RL113 UT_14	14	11.1	15/16	23.8	28.7	38.8	24.4
RL113 UT_15	15	11.9	15/16	23.8	28.7	38.8	24.4
RL113 UT_16	16	12.7	15/16	23.8	28.7	38.8	24.4
RL113 UT_18	18	15.1	1-1/16	27.0	29.7	39.8	24.4
RL113 UT_20	20	15.9	1-3/8	34.9	34.5	44.6	26.0
RL113 UT_22	22	18.3	1-3/8	34.9	34.5	44.6	26.0
RL113 UT_30	30	26.2	-	46	48.3	69.9	39.6
RL113 UT_32	32	28.6	-	46	49.3	72.3	42
RL113 UT_25	25	21.8	1-3/8	34.9	36.8	49.1	31.3
RL113 UT_38	38	33.7	-	55.0	56.4	84.0	49.4
RL113 UT_50	50	45.2	2-3/4	69.9	68.9	106.0	65.0

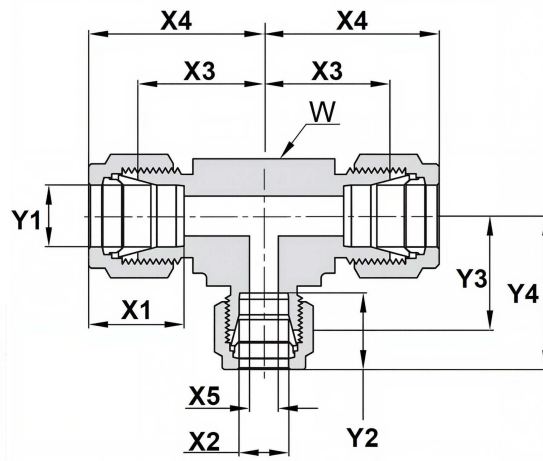
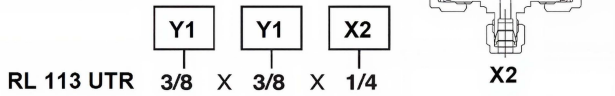
TUBE (INCH)

Ordering Information	Y1 Tube O.D.		Y2 (min.)		W Wrench Flat		X3 Y3		X4 Y4		X2	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL113 UT_ 1/16	1/16	1.58	.05	1.27	3/8	9.5	.55	14.00	.70	17.80	.34	8.6
RL113 UT_ 1/8	1/8	3.17	.09	2.28	3/8	9.5	.62	15.74	.88	22.35	.50	12.7
RL113 UT_ 3/16	3/16	4.76	.12	3.04	1/2	12.7	.70	17.80	.96	24.40	.54	13.7
RL113 UT_ 1/4	1/4	6.35	.19	4.82	1/2	12.7	.77	19.55	1.06	26.90	.60	15.2
RL113 UT_ 5/16	5/16	7.93	.25	6.35	5/8	15.9	.88	22.35	1.17	29.71	.64	16.2
RL113 UT_ 3/8	3/8	9.52	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	.66	16.8
RL113 UT_ 1/2	1/2	12.70	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.06	.90	22.9
RL113 UT_ 5/8	5/8	15.87	.50	12.70	15/16	23.8	1.13	28.70	1.53	38.90	.96	24.4
RL113 UT_ 3/4	3/4	19.05	.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.90	.96	24.4
RL113 UT_ 7/8	7/8	22.22	.72	18.29	1-3/8	34.9	1.36	34.54	1.76	44.70	1.02	25.9
RL113 UT_ 1	1	25.40	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.00	1.23	31.2
RL113 UT_ 1-1/4	1-1/4	31.75	1.09	27.7	1-11/16	42.9	1.75	44.50	2.62	66.55	1.62	41.2
RL113 UT_ 1-1/2	1-1/2	38.10	1.34	34.0	2	50.8	2.00	50.80	3.07	77.98	1.97	50.0
RL113 UT_ 2	2	50.80	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.66	67.6



RL 113 UTR REDUCING UNION TEE

HOW TO ORDER



TUBE (METRIC)

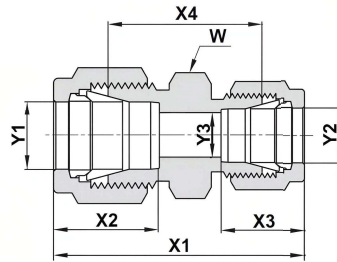
Ordering Information	Y1 Tube O.D. mm	X2 Tube O.D. mm	X4 mm	X3 mm	X1 mm	Y2 mm	X5 (min.) mm	W Wrench Flat		X3 mm	Y3 mm
								inch	mm		
RL113 UTR_8MM X 8MM X 6MM	8	6	29.9	29.8	16.2	15.3	4.8	5/8	15.9	22.4	22.4
RL113 UTR_10MM X 10MM X 6MM	10	6	31.5	31.3	17.2	15.3	4.8	11/16	17.5	23.9	23.9
RL113 UTR_12MM X 12MM X 6MM	12	6	36.0	31.8	22.8	15.3	4.8	13/16	20.6	25.9	24.4
RL113 UTR_12MM X 12MM X 10MM	12	10	36.0	33.5	22.8	17.2	7.9	13/16	20.6	25.9	25.9
RL113 UTR_14MM X 14MM X 10MM	14	10	38.8	36.3	24.4	17.2	7.9	15/16	23.8	28.7	28.7
RL113 UTR_18MM X 18MM X 12MM	18	12	39.8	39.8	24.4	22.8	9.5	1-1/16	27.0	29.7	29.7
RL113 UTR_50MM X 50MM X 38MM	*50	*38	106.0	96.2	65.0	49.4	33.7	2-3/4	69.9	68.9	68.6

TUBE (INCH)

Ordering Information	Y1 Tube O.D.		X2 Tube O.D.		X4		X3		X1		Y2		X5 (min.)		W Wrench Flat		X3		Y3	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
RL113 UTR_1/4 X 1/4 X 1/8	1/4	6.35	1/8	3.17	1.06	26.9	1.03	26.2	.60	15.2	.50	12.7	.09	2.28	1/2	12.7	.77	19.6	.77	19.6
RL113 UTR_3/8 X 3/8 X 1/4	3/8	9.52	1/4	6.35	1.20	30.5	1.14	29.0	.66	16.8	.60	15.2	.19	4.82	5/8	15.9	.91	23.1	.85	21.6
RL113 UTR_1/2 X 1/2 X 1/4	1/2	12.70	1/4	6.35	1.42	36.1	1.25	31.8	.90	22.9	.60	15.2	.19	4.82	13/16	20.6	1.02	25.9	.96	24.4
RL113 UTR_1/2 X 1/2 X 3/8	1/2	12.70	3/8	9.52	1.42	36.1	1.31	33.3	.90	22.9	.66	16.8	.28	7.11	13/16	20.6	1.02	25.9	1.02	25.9
RL113 UTR_5/8 X 5/8 X 3/8	5/8	15.88	3/8	9.52	1.53	38.9	1.42	36.1	.96	24.4	.66	16.8	.28	7.11	15/16	23.8	1.13	28.7	1.13	28.7
RL113 UTR_3/4 X 3/4 X 1/4	3/4	19.05	1/4	6.35	1.57	39.9	1.46	37.1	.96	24.4	.60	15.2	.19	4.82	1-1/16	27.0	1.17	29.7	1.17	29.7
RL113 UTR_3/4 X 3/4 X 3/8	3/4	19.05	3/8	9.52	1.57	39.9	1.46	37.1	.96	24.4	.66	16.8	.28	7.11	1-1/16	27.0	1.17	29.7	1.17	29.7
RL113 UTR_3/4 X 3/4 X 1/2	3/4	19.05	1/2	12.70	1.57	39.9	1.57	39.9	.96	24.4	.90	22.9	.41	10.41	1-1/16	27.0	1.17	29.7	1.17	29.7
RL113 UTR_1X1X 3/8	1	25.4	3/8	9.52	1.93	49.0	1.65	41.9	1.23	31.2	.66	16.8	.28	7.11	1-3/8	34.9	1.45	36.8	1.36	34.5
RL113 UTR_1X1 X 1/2	1	25.4	1/2	12.70	1.93	49.0	1.76	44.7	1.23	31.2	.90	22.9	.41	10.41	1-3/8	34.9	1.45	36.8	1.36	34.5
RL113 UTR_1 X 1 X 3/4	1	25.4	3/4	19.05	1.93	49.0	1.76	44.7	1.23	31.2	0.96	24.4	.62	15.75	1-3/8	34.9	1.45	36.8	1.36	34.5
RL113 UTR_1-1/4 X 1-1/4 X 1	1-1/4	31.75	1	25.40	2.67	67.8	2.17	55.1	1.62	41.2	1.23	31.2	.88	22.35	1-11/16	42.9	1.75	44.5	1.69	42.9
RL113 UTR_1-1/2 X 1-1/2 X 1	1-1/2	38.10	1	25.40	3.10	78.7	2.36	59.9	1.97	50.0	1.23	31.2	.88	22.35	2	50.8	2.00	50.8	1.88	47.8



RL 113 UR REDUCING UNION



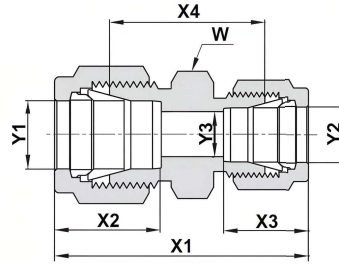
TUBE (METRIC) TO TUBE (METRIC)

Ordering Information	Y1 Tube O.D. mm	Y2 Tube O.D. mm	Y3 (min.) mm	W Hex. Flat mm	X4 mm	X1 mm	X2 mm	X3 mm
RL 113 UR _ 3 X 2	3	2	1.7	12	22.1	35.3	12.9	12.9
RL 113 UR _ 6 X 2	6	2	1.7	14	24.6	38.6	15.3	12.9
RL 113 UR _ 6 X 3	6	3	2.4	14	24.6	38.6	15.3	12.9
RL 113 UR _ 6 X 4	6	4	2.4	14	25.4	39.4	15.3	13.7
RL 113 UR _ 8 X 6	8	6	4.8	15	27.4	42.3	16.2	15.3
RL 113 UR _ 10 X 6	10	6	4.8	18	29.5	44.5	17.2	15.3
RL 113 UR _ 10 X 8	10	8	6.4	18	30.0	45.1	17.2	16.2
RL 113 UR _ 12 X 6	12	6	4.8	22	29.5	47.0	22.8	15.3
RL 113 UR _ 12 X 8	12	8	6.4	22	30.2	47.8	22.8	16.2
RL 113 UR _ 12 X 10	12	10	7.9	22	31.0	48.7	22.8	17.2
RL 113 UR _ 16 X 10	16	10	7.9	24	31.8	49.5	24.4	17.2
RL 113 UR _ 16 X 12	16	12	9.5	24	31.8	52.0	24.4	22.8
RL 113 UR _ 18 X 12	18	12	9.5	27	33.3	53.5	24.4	22.8
RL 113 UR _ 25 X 18	25	18	15.1	35	38.6	61.0	31.3	24.4
RL 113 UR _ 25 X 20	25	20	15.9	35	39.9	62.3	31.3	26.0
RL 113 UR _ 30 X 18	30	18	15.1	46	43.7	75.4	39.6	24.4
RL 113 UR _ 30 X 20	30	20	15.9	46	43.7	75.4	39.6	26
RL 113 UR _ 30 X 25	30	25	21.8	46	46.2	80.1	39.6	31.3
RL 113 UR _ 32 X 18	32	18	15.1	46	44.7	77.8	42	24.4
RL 113 UR _ 32 X 20	32	20	15.9	46	44.7	77.8	42	26
RL 113 UR _ 32 X 25	32	25	21.8	46	47	82.3	42	31.3
RL 113 UR _ 38 X 30	38	30	26.2	55	55.8	105	49.4	39.6
RL 113 UR _ 38 X 20	38	20	15.9	55	49.8	87.5	49.4	26.0
RL 113 UR _ 38 X 25	38	25	21.8	55	55.5	95.4	49.4	31.3

TUBE (METRIC) TO TUBE (INCH)

Ordering Information	Y1 Tube O.D. mm	Y2 Tube O.D. Inch	Y3 (min.) mm	W Hex. Flat mm	X4 mm	X1 mm	X2 mm	X3 mm
RL 113 UR _ 2 X 1/4	2	1/4	1.7	14	24.6	38.6	12.9	15.2
RL 113 UR _ 3 X 1/8	3	1/8	2.4	12	22.1	35.2	12.9	12.7
RL 113 UR _ 4 X 1/8	4	1/8	2.4	12	23.4	36.5	13.7	12.7
RL 113 UR _ 4 X 1/4	4	1/4	2.4	14	25.4	39.4	13.7	15.2
RL 113 UR _ 6 X 1/8	6	1/8	2.4	14	24.6	38.5	15.3	12.7
RL 113 UR _ 6 X 1/4	6	1/4	4.8	14	26.2	41.0	15.3	15.2
RL 113 UR _ 6 X 5/16	6	5/16	4.8	14	27.4	42.3	15.3	16.2
RL 113 UR _ 8 X 1/8	8	1/8	2.4	15	25.7	39.8	16.2	12.7
RL 113 UR _ 8 X 1/4	8	1/4	4.8	15	27.4	42.3	16.2	15.2
RL 113 UR _ 8 X 3/8	8	3/8	6.4	16	29.5	44.3	16.2	16.8
RL 113 UR _ 10 X 1/8	10	1/8	2.4	18	27.7	41.8	17.2	12.7

RL 113 UR REDUCING UNION (Continued...)



TUBE (METRIC) TO TUBE (INCH)

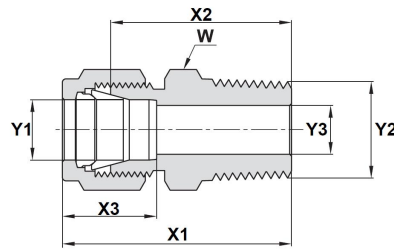
Ordering Information	Y1 Tube O.D.	Y2 Tube O.D.	Y3 (min.)	W Hex. Flat	X4	X1	X2	X3
	mm	inch	mm	mm	mm	mm	mm	mm
RL113 UR_10 X 1/4	10	1/4	4.8	18	29.5	44.5	17.2	15.2
RL113 UR_10 X 5/16	10	5/16	6.4	18	30.0	45.1	17.2	16.2
RL113 UR_10 X 3/8	10	3/8	7.1	18	31.0	45.9	17.2	16.8
RL113 UR_12 X 5/16	12	5/16	6.4	22	30.2	47.8	22.8	16.2
RL113 UR_12 X 3/8	12	3/8	7.1	22	31.0	48.4	22.8	16.8
RL113 UR_12 X 1/2	12	1/2	9.5	22	31.0	51.2	22.8	22.9
RL113 UR_15 X 1/2	15	1/2	10.3	24	31.8	52.0	24.4	22.9
RL113 UR_16 X 5/8	16	5/8	12.7	24	31.8	52.0	24.4	24.4
RL113 UR_18 X 3/4	18	3/4	15.1	27	33.3	53.5	24.4	24.4

TUBE (INCH) TO TUBE (INCH)

Ordering Information	Y1 Tube O.D.		Y2 Tube O.D.		Y3 (min.)		W Hex. Flat	X4		X1		X2		X3	
	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm
RL113 UR_ 1/8 X 1/16	1/8	3.17	1/16	1.58	.05	1.27	7/16	.81	20.57	1.22	30.98	.50	12.7	.34	8.6
RL113 UR_ 3/16 X 1/16	3/16	4.76	1/16	1.58	.05	1.27	7/16	.86	21.84	1.27	32.26	.54	13.7	.34	8.6
RL113 UR_ 3/16 X 1/8	3/16	4.76	1/8	3.17	.09	2.28	7/16	.92	23.36	1.44	36.57	.54	13.7	.50	12.7
RL113 UR_ 1/4 X 1/16	1/4	6.35	1/16	1.58	.05	1.27	1/2	.91	23.11	1.35	34.29	.60	15.2	.34	8.6
RL113 UR_ 1/4 X 1/8	1/4	6.35	1/8	3.17	.09	2.28	1/2	.97	24.63	1.52	38.60	.60	15.2	.50	12.7
RL113 UR_ 1/4 X 3/16	1/4	6.35	3/16	4.76	.12	3.04	1/2	1.00	25.40	1.55	37.37	.60	15.2	.54	13.7
RL113 UR_ 5/16 X 1/8	5/16	7.93	1/8	3.17	.09	2.28	9/16	1.01	25.65	1.56	39.62	.64	16.2	.50	12.7
RL113 UR_ 5/16 X 1/4	5/16	7.93	1/4	6.35	.19	4.82	9/16	1.08	27.43	1.66	42.16	.64	16.2	.60	15.2
RL113 UR_ 3/8 X 1/16	3/8	9.52	1/16	1.58	.05	1.27	5/8	1.00	25.40	1.44	36.58	.66	16.8	.34	8.6
RL113 UR_ 3/8 X 1/8	3/8	9.52	1/8	3.17	.09	2.28	5/8	1.06	26.92	1.61	40.89	.66	16.8	.50	12.7
RL113 UR_ 3/8 X 1/4	3/8	9.52	1/4	6.35	.19	4.82	5/8	1.12	28.44	1.70	43.18	.66	16.8	.60	15.2
RL113 UR_ 3/8 X 5/16	3/8	9.52	5/16	7.93	.25	6.35	5/8	1.16	29.46	1.74	44.19	.66	16.8	.64	16.2
RL113 UR_ 1/2 X 1/8	1/2	12.70	1/8	3.17	.09	2.28	13/16	1.12	28.44	1.78	45.21	.90	22.9	.50	12.7
RL113 UR_ 1/2 X 1/4	1/2	12.70	1/4	6.35	.19	4.82	13/16	1.16	29.46	1.85	46.99	.90	22.9	.60	15.2
RL113 UR_ 1/2 X 3/8	1/2	12.70	3/8	9.52	.28	7.11	13/16	1.22	30.98	1.91	48.51	.90	22.9	.66	16.8
RL113 UR_ 5/8 X 3/8	5/8	15.87	3/8	9.52	.28	7.11	15/16	1.25	31.75	1.94	49.27	.96	24.4	.66	16.8
RL113 UR_ 5/8 X 1/2	5/8	15.87	1/2	12.70	.41	10.41	15/16	1.25	31.75	2.05	52.07	.96	24.4	.90	22.9
RL113 UR_ 3/4 X 1/4	3/4	19.05	1/4	6.35	.19	4.82	1-1/16	1.25	31.75	1.94	49.28	.96	24.4	.60	15.2
RL113 UR_ 3/4 X 3/8	3/4	19.05	3/8	9.52	.28	7.11	1-1/16	1.31	33.27	2.00	50.80	.96	24.4	.66	16.8
RL113 UR_ 3/4 X 1/2	3/4	19.05	1/2	12.70	.41	10.41	1-1/16	1.31	33.27	2.11	53.59	.96	24.4	.90	22.9
RL113 UR_ 3/4 X 5/8	3/4	19.05	5/8	15.87	.50	12.70	1-1/16	1.31	33.27	2.11	53.59	.96	24.4	.96	24.4
RL113 UR_ 1 X 1/2	1	25.4	1/2	12.70	.41	10.41	1-3/8	1.50	38.10	2.38	60.45	1.23	31.2	.90	22.9
RL113 UR_ 1 X 3/4	1	25.4	3/4	19.05	.62	15.75	1-3/8	1.50	38.10	2.38	60.45	1.23	31.2	.96	24.4



RL 116 MC MALE CONNECTOR

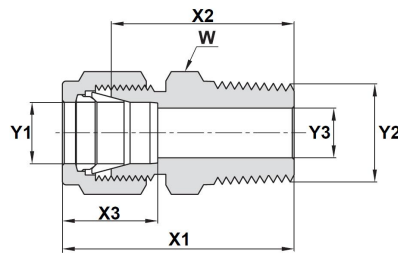


TUBE (METRIC) MALE NPT THREAD

Ordering Information	Y1 Tube O.D mm	Y2 (NPT) inch	Y3 (min.) mm	W Hex. Flat mm	X2 mm	X1 mm	X3 mm
RL116 MC_2 X 1/8	2	1/8	1.7	12	23.9	30.5	12.9
RL116 MC_3 X 1/8	3	1/8	2.4	12	23.9	30.5	12.9
RL116 MC_3 X 1/4	3	1/4	2.4	14	29.0	35.6	12.9
RL116 MC_4 X 1/8	4	1/8	2.4	12	24.6	31.2	13.7
RL116 MC_4 X 1/4	4	1/4	2.4	14	29.7	36.3	13.7
RL116 MC_6 X 1/8	6	1/8	4.8	14	25.4	32.8	15.3
RL116 MC_6 X 1/4	6	1/4	4.8	14	30.5	37.9	15.3
RL116 MC_6 X 3/8	6	3/8	4.8	18	31.0	38.4	15.3
RL116 MC_6 X 1/2	6	1/2	4.8	22	37.3	44.7	15.3
RL116 MC_8 X 1/8	8	1/8	4.8	15	26.7	34.2	16.2
RL116 MC_8 X 1/4	8	1/4	6.4	15	31.2	38.7	16.2
RL116 MC_8 X 3/8	8	3/8	6.4	18	31.8	39.3	16.2
RL116 MC_8 X 1/2	8	1/2	6.4	22	38.1	45.6	16.2
RL116 MC_10 X 1/8	10	1/8	4.8	18	28.7	36.3	17.2
RL116 MC_10 X 1/4	10	1/4	7.9	18	33.3	40.9	17.2
RL116 MC_10 X 3/8	10	3/8	7.9	18	33.3	40.9	17.2
RL116 MC_10 X 1/2	10	1/2	7.9	22	38.9	46.5	17.2
RL116 MC_10 X 3/4	10	3/4	7.9	27	40.4	48.0	17.2
RL116 MC_12 X 1/8	12	1/8	4.8	22	28.7	38.8	22.8
RL116 MC_12 X 1/4	12	1/4	7.1	22	33.3	43.4	22.8
RL116 MC_12 X 3/8	12	3/8	9.5	22	33.3	43.4	22.8
RL116 MC_12 X 1/2	12	1/2	9.5	22	38.9	49.0	22.8
RL116 MC_12 X 3/4	12	3/4	9.5	27	40.4	50.5	22.8
RL116 MC_14 X 1/4	14	1/4	7.1	24	34.0	44.1	24.4
RL116 MC_14 X 3/8	14	3/8	9.5	24	34.0	44.1	24.4
RL116 MC_14 X 1/2	14	1/2	11.1	24	38.9	49.0	24.4
RL116 MC_15 X 1/2	15	1/2	11.9	24	38.9	49.0	24.4
RL116 MC_16 X 3/8	16	3/8	9.5	24	34.0	44.1	24.4
RL116 MC_16 X 1/2	16	1/2	11.9	24	38.9	49.0	24.4
RL116 MC_16 X 3/4	16	3/4	12.7	27	40.4	50.5	24.4
RL116 MC_18 X 1/2	18	1/2	11.9	27	40.4	50.5	24.4
RL116 MC_18 X 3/4	18	3/4	15.1	27	40.4	50.5	24.4
RL116 MC_20 X 1/2	20	1/2	11.9	30	42.2	52.3	26.0
RL116 MC_20 X 3/4	20	3/4	15.9	30	42.2	52.3	26.0
RL116 MC_22 X 3/4	22	3/4	15.9	30	42.2	52.3	26.0
RL116 MC_22 X 1	22	1	18.3	35	47.0	57.1	26.0
RL116 MC_25 X 1/2	25	1/2	11.9	35	45.2	57.5	31.3
RL116 MC_25 X 3/4	25	3/4	15.9	35	45.2	57.5	31.3
RL116 MC_25 X 1	25	1	21.8	35	50.0	62.3	31.3
RL116 MC_30 X 1-1/4	30	1-1/4	26.2	46	55.6	77.2	39.6
RL116 MC_32 X 1-1/4	32	1-1/4	28.6	46	56.6	79.6	42
RL116 MC_38 X 1-1/2	38	1-1/2	33.7	55	64.0	91.6	49.4
RL116 MC_50 X 2"	50	2	45.2	3 inch	76.2	113.3	65.0



RL 116 MC MALE CONNECTOR (Continued)

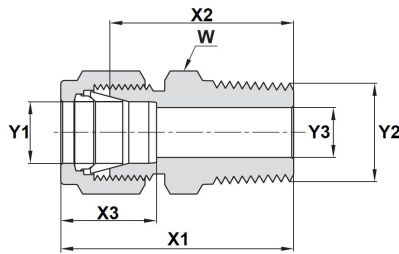


TUBE (INCH) MALE NPT THREAD

Ordering Information	Y1 Tube O.D.		Y2 (NPT) inch	Y3 (min.)		W Hex. Flat inch	X2		X1		X3	
	inch	mm		inch	mm		inch	mm	inch	mm	inch	mm
RL116 MC_ 1/16 X 1/16	1/16	1.58	1/16	.05	1.27	5/16	.79	20.10	.94	23.88	.34	8.6
RL116 MC_ 1/16 X 1/8	1/16	1.58	1/8	.05	1.27	7/16	.88	22.35	1.03	26.10	.34	8.6
RL116 MC_ 1/16 X 1/4	1/16	1.58	1/4	.05	1.27	9/16	1.07	27.17	1.22	30.98	.34	8.6
RL116 MC_ 1/8 X 1/16	1/8	3.17	1/16	.09	2.28	7/16	.91	23.11	1.17	29.71	.50	12.7
RL116 MC_ 1/8 X 1/8	1/8	3.17	1/8	.09	2.28	7/16	.94	23.90	1.20	30.48	.50	12.7
RL116 MC_ 1/8 X 1/4	1/8	3.17	1/4	.09	2.28	9/16	1.14	28.95	1.40	35.56	.50	12.7
RL116 MC_ 1/8 X 3/8	1/8	3.17	3/8	.09	2.28	11/16	1.15	29.21	1.41	35.81	.50	12.7
RL116 MC_ 1/8 X 1/2	1/8	3.17	1/2	.09	2.28	7/8	1.40	35.56	1.66	42.16	.50	12.7
RL116 MC_ 3/16 X 1/8	3/16	4.76	1/8	.12	3.04	7/16	.97	24.63	1.23	31.24	.54	13.7
RL116 MC_ 3/16 X 1/4	3/16	4.76	1/4	.12	3.04	9/16	1.17	29.72	1.43	36.32	.54	13.7
RL116 MC_ 1/4 X 1/16	1/4	6.35	1/16	.12	3.04	1/2	1.00	25.40	1.29	32.76	.60	15.2
RL116 MC_ 1/4 X 1/8	1/4	6.35	1/8	.19	4.82	1/2	1.00	25.40	1.29	32.76	.60	15.2
RL116 MC_ 1/4 X 1/4	1/4	6.35	1/4	.19	4.82	9/16	1.20	30.50	1.49	37.85	.60	15.2
RL116 MC_ 1/4 X 3/8	1/4	6.35	3/8	.19	4.82	11/16	1.22	30.98	1.51	38.35	.60	15.2
RL116 MC_ 1/4 X 1/2	1/4	6.35	1/2	.19	4.82	7/8	1.47	37.34	1.76	44.70	.60	15.2
RL116 MC_ 1/4 X 3/4	1/4	6.35	3/4	.19	4.82	1-1/16	1.53	38.86	1.82	46.22	.60	15.2
RL116 MC_ 5/16 X 1/8	5/16	7.93	1/8	.19	4.82	9/16	1.05	26.67	1.34	34.03	.64	16.2
RL116 MC_ 5/16 X 1/4	5/16	7.93	1/4	.25	6.35	9/16	1.23	31.24	1.52	38.60	.64	16.2
RL116 MC_ 5/16 X 3/8	5/16	7.93	3/8	.25	6.35	11/16	1.25	31.75	1.54	39.11	.64	16.2
RL116 MC_ 3/8 X 1/8	3/8	9.52	1/8	.19	4.82	5/8	1.10	27.90	1.39	35.30	.66	16.8
RL116 MC_ 3/8 X 1/4	3/8	9.52	1/4	.28	7.11	5/8	1.28	32.51	1.57	39.87	.66	16.8
RL116 MC_ 3/8 X 3/8	3/8	9.52	3/8	.28	7.11	11/16	1.28	32.51	1.57	39.87	.66	16.8
RL116 MC_ 3/8 X 1/2	3/8	9.52	1/2	.28	7.11	7/8	1.53	38.90	1.82	46.23	.66	16.8
RL116 MC_ 3/8 X 3/4	3/8	9.52	3/4	.28	7.11	1-1/16	1.59	40.38	1.88	47.75	.66	16.8
RL116 MC_ 3/8 X 1	3/8	9.52	1	.28	7.11	1-3/8	1.85	46.99	2.14	54.35	.66	16.8
RL116 MC_ 1/2 X 1/8	1/2	12.70	1/8	.19	4.82	13/16	1.13	28.70	1.53	38.86	.90	22.9
RL116 MC_ 1/2 X 1/4	1/2	12.70	1/4	.28	7.11	13/16	1.31	33.27	1.71	43.43	.90	22.9
RL116 MC_ 1/2 X 3/8	1/2	12.70	3/8	.38	9.65	13/16	1.31	33.27	1.71	43.43	.90	22.9
RL116 MC_ 1/2 X 1/2	1/2	12.70	1/2	.41	10.41	7/8	1.53	38.90	1.93	49.02	.90	22.9
RL116 MC_ 1/2 X 3/4	1/2	12.70	3/4	.41	10.41	1-1/16	1.59	40.38	1.99	50.54	.90	22.9
RL116 MC_ 1/2 X 1	1/2	12.70	1	.41	10.41	1-3/8	1.85	47.00	2.25	57.15	.90	22.9



RL 116 MC MALE CONNECTOR (Continued)



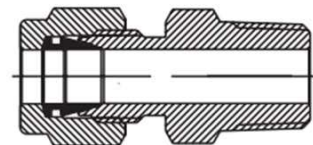
TUBE (INCH) MALE NPT THREAD

Ordering Information	Y1 Tube O.D.		Y2 (NPT) inch	Y3 (min.)		W Hex. Flat inch	X2		X1		X3	
	inch	mm		inch	mm		inch	mm	inch	mm	inch	mm
RL116 MC_ 5/8 X 1/4	5/8	15.87	1/4	.28	7.11	15/16	1.34	34.03	1.74	44.19	.96	24.4
RL116 MC_ 5/8 X 3/8	5/8	15.87	3/8	.38	9.65	15/16	1.34	34.03	1.74	44.19	.96	24.4
RL116 MC_ 5/8 X 1/2	5/8	15.87	1/2	.47	11.90	15/16	1.53	38.86	1.93	49.02	.96	24.4
RL116 MC_ 5/8 X 3/4	5/8	15.87	3/4	.50	12.70	1-1/16	1.59	40.38	1.99	50.54	.96	24.4
RL116 MC_ 3/4 X 3/8	3/4	19.05	3/8	.38	9.50	1-1/16	1.38	35.05	1.78	45.21	.96	24.4
RL116 MC_ 3/4 X 1/2	3/4	19.05	1/2	.47	11.90	1-1/16	1.59	40.38	1.99	50.54	.96	24.4
RL116 MC_ 3/4 X 3/4	3/4	19.05	3/4	.62	15.75	1-1/16	1.59	40.38	1.99	50.54	.96	24.4
RL116 MC_ 3/4 X 1	3/4	19.05	1	.62	15.75	1-3/8	1.85	47.00	2.25	57.15	.96	24.4
RL116 MC_ 7/8 X 1/2	7/8	22.22	1/2	.47	11.90	1-3/16	1.59	40.38	1.99	50.54	1.02	25.9
RL116 MC_ 7/8 X 3/4	7/8	22.22	3/4	.62	15.75	1-3/16	1.59	40.38	1.99	50.54	1.02	25.9
RL116 MC_ 7/8 X 1	7/8	22.22	1	.72	18.28	1-3/8	1.85	46.99	2.25	57.15	1.02	25.9
RL116 MC_ 1 X 1/2	1	25.40	1/2	.47	11.90	1-3/8	1.78	45.21	2.26	57.40	1.23	31.2
RL116 MC_ 1 X 3/4	1	25.40	3/4	.62	15.75	1-3/8	1.78	45.21	2.26	57.40	1.23	31.2
RL116 MC_ 1 X 1	1	25.40	1	.88	22.35	1-3/8	1.97	50.03	2.45	62.23	1.23	31.2
RL116 MC_ 1-1/4 X 1	1-1/4	31.75	1	.86	21.80	1-3/4	2.17	55.12	3.04	77.22	1.62	41.2
RL116 MC_ 1-1/4 X 1-1/4	1-1/4	31.75	1-1/4	1.09	27.70	1-3/4	2.17	55.12	3.04	77.22	1.62	41.2
RL116 MC_ 1-1/2 X 1-1/2	1-1/2	38.10	1-1/2	1.34	34.00	2-1/8	2.43	61.72	3.50	88.90	1.97	50.0
RL116 MC_ 2 X 2	2	50.80	2	1.81	45.97	2-3/4	3.00	76.20	4.47	113.54	2.66	67.6

Thermoelement

For ordering: use the catalog number of the selected fitting and add the suffix TC.

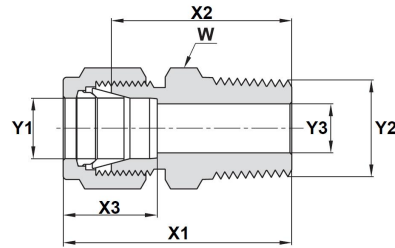
Example: RL116 MC 1/4 x 1/4 TC



TERMOCOUPLE Rek-Lok TUBE FITTINGS

Tubing O.D.	Pressure rating factor
2 mm to 12 mm, 1/8" to 1/2"	0.75 x pressure rating shown in table 1
14 mm to 18 mm, 5/8" to 3/4"	0.50 x pressure rating shown in table 1
20 mm to 25 mm, 7/8" to 1"	0.25 x pressure rating shown in table 1

RL 116 MCI MALE CONNECTOR

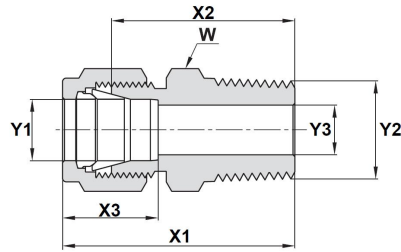


TUBE (METRIC) ISO TAPERED THREAD

Ordering Information	Y1 Tube O.D. mm	Y2 (ISO) inch	Y3 (min.) mm	W Hex. Flat mm	X2 mm	X1 mm	X3 mm
RL116 MCI_2 X 1/8	2	R-1/8	1.7	12	23.9	30.5	12.9
RL116 MCI_3 X 1/8	3	R-1/8	2.4	12	23.9	30.5	12.9
RL116 MCI_3 X 1/4	3	R-1/4	2.4	14	29.0	35.6	12.9
RL116 MCI_4 X 1/8	4	R-1/8	2.4	12	24.6	31.2	13.7
RL116 MCI_4 X 1/4	4	R-1/4	2.4	14	29.7	36.3	13.7
RL116 MCI_6 X 1/8	6	R-1/8	4.8	14	25.4	32.8	15.3
RL116 MCI_6 X 1/4	6	R-1/4	4.8	14	30.5	37.9	15.3
RL116 MCI_6 X 3/8	6	R-3/8	4.8	18	31.0	38.4	15.3
RL116 MCI_6 X 1/2	6	R-1/2	4.8	22	37.3	44.7	15.3
RL116 MCI_8 X 1/8	8	R-1/8	4.8	15	26.7	34.2	16.2
RL116 MCI_8 X 1/4	8	R-1/4	6.4	15	31.2	38.7	16.2
RL116 MCI_8 X 3/8	8	R-3/8	6.4	18	31.8	39.2	16.2
RL116 MCI_8 X 1/2	8	R-1/2	6.4	22	38.1	45.6	16.2
RL116 MCI_10 X 1/8	10	R-1/8	4.8	18	28.7	36.3	17.2
RL116 MCI_10 X 1/4	10	R-1/4	7.9	18	33.3	40.9	17.2
RL116 MCI_10 X 3/8	10	R-3/8	7.9	18	33.3	40.9	17.2
RL116 MCI_10 X 1/2	10	R-1/2	7.9	22	38.9	46.5	17.2
RL116 MCI_10 X 3/4	10	R-3/4	7.9	27	40.4	48.0	17.2
RL116 MCI_12 X 1/4	12	R-1/4	7.1	22	33.3	43.4	22.8
RL116 MCI_12 X 3/8	12	R-3/8	9.5	22	33.3	43.4	22.8
RL116 MCI_12 X 1/2	12	R-1/2	9.5	22	38.9	49.0	22.8
RL116 MCI_12 X 3/4	12	R-3/4	9.5	27	40.4	50.5	22.8
RL116 MCI_14 X 1/4	14	R-1/4	7.1	24	34.0	44.1	24.4
RL116 MCI_14 X 3/8	14	R-3/8	9.5	24	34.0	44.1	24.4
RL116 MCI_15 X 1/2	15	R-1/2	11.9	24	38.9	49.0	24.4
RL116 MCI_16 X 1/4	16	R-1/4	7.1	24	34.0	44.1	24.4
RL116 MCI_16 X 3/8	16	R-3/8	9.5	24	34.0	44.1	24.4
RL116 MCI_16 X 1/2	16	R-1/2	11.9	24	38.9	49.0	24.4
RL116 MCI_16 X 3/4	16	R-3/4	12.7	27	40.4	50.5	24.4
RL116 MCI_18 X 1/2	18	R-1/2	11.9	27	40.4	50.5	24.4
RL116 MCI_18 X 3/4	18	R-3/4	15.1	27	40.4	50.5	24.4
RL116 MCI_20 X 1/2	20	R-1/2	11.9	30	42.2	52.3	26.0
RL116 MCI_20 X 3/4	20	R-3/4	15.9	30	42.2	52.3	26.0
RL116 MCI_22 X 3/4	22	R-3/4	15.9	30	42.2	52.3	26.0
RL116 MCI_22 X 1	22	R-1	18.3	35	47.0	57.1	26.0
RL116 MCI_25 X 1/2	25	R-1/2	11.9	35	45.2	57.5	31.3
RL116 MCI_25 X 3/4	25	R-3/4	15.9	35	45.2	57.5	31.3
RL116 MCI_25 X 1	25	R-1	21.8	35	45.2	57.5	31.3
RL116 MCI_30 X 1-1/4	30	R-1-1/4	26.2	46	55.6	77.2	39.6



RL 116 MCI MALE CONNECTOR (Continued)



TUBE (METRIC) ISO TAPERED THREAD

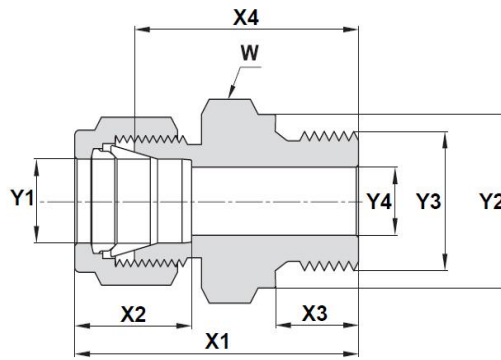
Ordering Information	Y1 Tube O.D. mm	Y2 (ISO) inch	Y3 (min.) mm	W Hex. Flat mm	X2 mm	X1 mm	X3 mm
RL116 MCI _32 X 1-1/4	32	R-1-1/4	28.6	46	56.6	79.6	42
RL116 MCI _38 X 1-1/2	38	R-1-1/2	33.7	55	64.0	91.6	49.4
RL116 MCI _50 X 2"	50	R-2	45.2	Inch 3	76.2	113.3	65.0

TUBE (INCH) ISO TAPERED THREAD

Ordering Information	Y1 Tube O.D.		Y2 (ISO) inch	Y3 (min.)		W Hex. Flat mm	X2		X1		X3	
	inch	mm		inch	mm		inch	mm	inch	mm	inch	mm
RL116 MCI _1/8 X 1/8	1/8	3.17	R-1/8	.09	2.28	7/16	.94	23.90	1.20	30.48	.50	12.70
RL116 MCI _1/8 X 1/4	1/8	3.17	R-1/4	.09	2.28	9/16	1.14	28.95	1.40	35.56	.50	12.70
RL116 MCI _1/4 X 1/8	1/4	6.35	R-1/8	.19	4.82	1/2	1.00	25.40	1.29	32.76	.60	15.20
RL116 MCI _1/4 X 1/4	1/4	6.35	R-1/4	.19	4.82	9/16	1.20	30.50	1.49	37.85	.60	15.20
RL116 MCI _1/4 X 3/8	1/4	6.35	R-3/8	.19	4.82	11/16	1.22	30.98	1.51	38.35	.60	15.20
RL116 MCI _1/4 X 1/2	1/4	6.35	R-1/2	.19	4.82	7/8	1.47	37.34	1.76	44.70	.60	15.20
RL116 MCI _5/16 X 1/8	5/16	7.93	R-1/8	.19	4.82	9/16	1.05	26.67	1.34	34.03	.64	16.20
RL116 MCI _5/16 X 1/4	5/16	7.93	R-1/4	.25	6.35	9/16	1.23	31.24	1.52	38.60	.64	16.20
RL116 MCI _3/8 X 1/8	3/8	9.52	R-1/8	.19	4.82	5/8	1.10	27.90	1.39	35.30	.66	16.80
RL116 MCI _3/8 X 1/4	3/8	9.52	R-1/4	.28	7.11	5/8	1.28	32.51	1.57	39.87	.66	16.80
RL116 MCI _3/8 X 3/8	3/8	9.52	R-3/8	.28	7.11	11/16	1.28	32.51	1.57	39.87	.66	16.80
RL116 MCI _3/8 X 1/2	3/8	9.52	R-1/2	.28	7.11	7/8	1.53	38.90	1.82	46.23	.66	16.80
RL116 MCI _3/8 X 3/4	3/8	9.52	R-3/4	.28	7.11	1-1/16	1.59	40.38	1.88	47.75	.66	16.80
RL116 MCI _1/2 X 1/4	1/2	12.70	R-1/4	.28	7.11	13/16	1.31	33.27	1.71	43.43	.90	22.90
RL116 MCI _1/2 X 3/8	1/2	12.70	R-3/8	.38	9.65	13/16	1.31	33.27	1.71	43.43	.90	22.90
RL116 MCI _1/2 X 1/2	1/2	12.70	R-1/2	.41	10.41	7/8	1.53	38.90	1.93	49.02	.90	22.90
RL116 MCI _1/2 X 3/4	1/2	12.70	R-3/4	.41	10.41	1-1/16	1.59	40.38	1.99	50.54	.90	22.90
RL116 MCI _5/8 X 1/2	5/8	15.87	R-1/2	.47	11.90	15/16	1.53	38.86	1.93	49.02	.96	24.40
RL116 MCI _3/4 X 3/4	3/4	19.05	R-3/4	.62	15.74	1-1/16	1.59	40.38	1.99	50.54	.96	24.40
RL116 MCI _3/4 X 1	3/4	19.05	R-1	.62	15.74	1-3/8	1.85	47.00	2.25	57.15	.96	24.40
RL116 MCI _1 X 3/4	1	25.40	R-3/4	.63	15.90	1-3/8	1.78	45.21	2.26	57.40	1.23	31.20
RL116 MCI _1 X 1	1	25.40	R-1	.88	22.35	1-3/8	1.97	50.03	2.45	62.23	1.23	31.20
RL116 MCI _1-1/4 X 1-1/4	1-1/4	31.75	R-1-1/4	1.09	27.70	1-3/4	2.17	55.12	3.04	77.22	1.62	41.20



RL 116 MCP MALE CONNECTOR

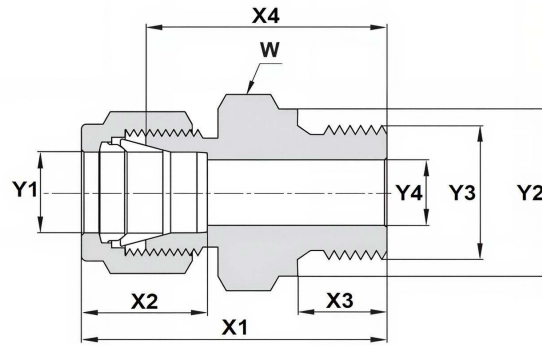


TUBE (METRIC) ISO PARALLEL THREAD

Ordering Information	Y1 Tube O.D. mm	Y3 (P-ISO) Inch	Y4 min. mm	Y2 mm	W Hex. Flat mm	X4 mm	X3 mm	X1 mm	X2 mm
RL116 MCP_2 X 1/8	2	G-1/8	1.7	13.8	14	23.4	7.1	30.0	12.9
RL116 MCP_3 X 1/8	3	G-1/8	2.4	13.8	14	23.4	7.1	30.0	12.9
RL116 MCP_3 X 1/4	3	G-1/4	2.4	18.0	19	28.7	11.2	35.3	12.9
RL116 MCP_4 X 1/8	4	G-1/8	2.4	13.8	14	24.1	7.1	30.7	13.7
RL116 MCP_6 X 1/8	6	G-1/8	4.0	13.8	14	24.9	7.1	32.3	15.3
RL116 MCP_6 X 1/4	6	G-1/4	4.8	18.0	19	30.2	11.2	37.6	15.3
RL116 MCP_6 X 3/8	6	G-3/8	4.8	21.8	22	31.5	11.2	38.9	15.3
RL116 MCP_6 X 1/2	6	G-1/2	4.8	26.0	27	37.3	14.2	44.7	15.3
RL116 MCP_8 X 1/8	8	G-1/8	4.0	13.8	15	25.7	7.1	33.2	16.2
RL116 MCP_8 X 1/4	8	G-1/4	6.4	18.0	19	31.0	11.2	38.5	16.2
RL116 MCP_8 X 3/8	8	G-3/8	6.4	21.8	22	32.3	11.2	39.8	16.2
RL116 MCP_8 X 1/2	8	G-1/2	6.4	26.0	27	38.1	14.2	45.6	16.2
RL116 MCP_10 X 1/4	10	G-1/4	5.9	18.0	19	31.8	11.2	39.4	17.2
RL116 MCP_10 X 3/8	10	G-3/8	7.9	21.8	22	33.0	11.2	40.6	17.2
RL116 MCP_10 X 1/2	10	G-1/2	7.9	26.0	27	38.9	14.2	46.5	17.2
RL116 MCP_12 X 1/4	12	G-1/4	5.9	18.0	22	32.5	11.2	42.6	22.8
RL116 MCP_12 X 3/8	12	G-3/8	7.9	21.8	22	33.0	11.2	43.1	22.8
RL116 MCP_12 X 1/2	12	G-1/2	9.5	26.0	27	37.4	14.2	47.5	22.8
RL116 MCP_12 X 3/4	12	G-3/4	9.5	32.0	35	42.7	15.7	52.8	22.8
RL116 MCP_14 X 3/8	14	G-3/8	7.9	21.8	24	33.8	11.2	43.9	24.4
RL116 MCP_14 X 1/2	14	G-1/2	11.1	26.0	27	38.9	14.2	49.0	24.4
RL116 MCP_15 X 3/8	15	G-3/8	7.9	21.8	24	33.8	11.2	43.9	24.4
RL116 MCP_15 X 1/2	15	G-1/2	11.9	26.0	27	37.4	14.2	47.5	24.4
RL116 MCP_15 X 3/4	15	G-3/4	11.9	32.0	35	42.1	15.7	52.8	24.4
RL116 MCP_16 X 3/8	16	G-3/8	7.9	21.8	24	33.8	11.2	43.9	24.4
RL116 MCP_16 X 1/2	16	G-1/2	11.9	26.0	27	38.9	14.2	49.0	24.4
RL116 MCP_16 X 3/4	16	G-3/4	12.7	32.0	35	42.1	15.7	52.8	24.4
RL116 MCP_18 X 1/2	18	G-1/2	11.9	26.0	27	38.9	14.2	49.0	24.4
RL116 MCP_18 X 3/4	18	G-3/4	15.1	32.0	35	42.7	15.7	52.8	24.4
RL116 MCP_20 X 1/2	20	G-1/2	11.9	26.0	30	40.4	14.2	50.5	26.0
RL116 MCP_20 X 3/4	20	G-3/4	15.9	32.0	35	42.7	15.7	52.8	26.0
RL116 MCP_22 X 3/4	22	G-3/4	15.9	32.0	35	42.7	15.7	52.8	26.0
RL116 MCP_22 X 1	22	G-1	18.3	39.0	41	45.2	18.3	55.3	26.0
RL116 MCP_25 X 3/4	25	G-3/4	15.9	32.0	35	45.2	15.7	57.5	31.3
RL116 MCP_25 X 1	25	G-1	19.8	39.0	41	47.8	18.3	60.1	31.3
RL116 MCP_30 X 1-1/4	30	G-1-1/4	25	49	50	55.6	19.8	76.7	39.6
RL116 MCP_32 X 1-1/4	32	G-1-1/4	25	49	50	56.2	19.8	79.2	42
RL116 MCP_38 X 1-1/2	38	G-1-1/2	31.8	54.7	55	63.2	22.1	90.9	49.4



RL 116 MCP MALE CONNECTOR

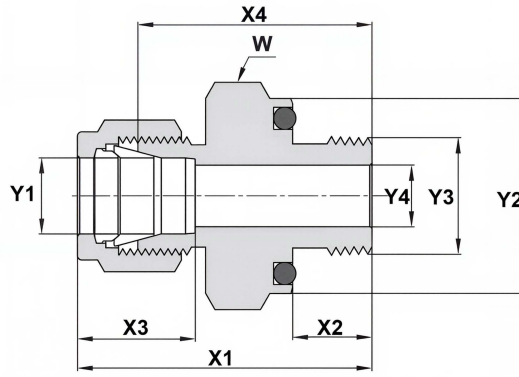


TUBE (INCH) TO ISO PARALLEL THREAD

Ordering Information	Y1 Tube O.D		Y3 P-ISO inch	Y4 min.		Y2		W Hex. Flat inch	X4		X3		X1		X2	
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm
RL116 MCP_1/8 X 1/8	1/8	3.17	G-1/8	0.09	2.30	0.54	13.80	9/16	0.92	23.40	0.28	7.10	1.18	30.00	0.50	12.7
RL116 MCP_1/8 X 1/4	1/8	3.17	G-1/4	0.09	2.30	0.71	18.00	3/4	1.13	28.70	0.44	11.20	1.39	35.30	0.50	12.7
RL116 MCP_1/8 X 3/8	1/8	3.17	G-3/8	0.09	2.30	0.86	21.80	7/8	1.17	29.72	0.44	11.20	1.43	36.32	0.50	12.7
RL116 MCP_1/8 X 1/2	1/8	3.17	G-1/2	0.09	2.30	1.02	26.00	1-1/16	1.40	35.70	0.56	14.20	1.66	42.16	0.50	12.7
RL116 MCP_3/16 X 1/8	3/16	4.76	G-1/8	0.12	3.10	0.54	13.80	9/16	0.95	24.10	0.28	7.10	1.21	30.70	0.54	13.7
RL116 MCP_1/4 X 1/8	1/4	6.35	G-1/8	0.16	4.10	0.54	13.80	9/16	0.98	24.90	0.28	7.10	1.27	32.26	0.60	15.2
RL116 MCP_1/4 X 1/4	1/4	6.35	G-1/4	0.19	4.80	0.71	18.00	3/4	1.19	30.20	0.44	11.20	1.48	37.60	0.60	15.2
RL116 MCP_1/4 X 3/8	1/4	6.35	G-3/8	0.19	4.80	0.86	21.80	7/8	1.24	31.50	0.44	11.20	1.50	38.10	0.60	15.2
RL116 MCP_1/4 X 1/2	1/4	6.35	G-1/2	0.19	4.80	1.02	26.00	1-1/16	1.47	37.30	0.56	14.20	1.76	44.70	0.60	15.2
RL116 MCP_5/16 X 1/4	5/16	7.93	G-1/4	0.23	5.80	0.71	18.00	3/4	1.22	31.00	0.44	11.20	1.51	38.36	0.64	16.2
RL116 MCP_5/16 X 3/8	5/16	7.93	G-3/8	0.25	6.40	0.86	21.80	7/8	1.27	32.30	0.44	11.20	1.56	39.66	0.64	16.2
RL116 MCP_3/8 X 1/8	3/8	9.52	G-1/8	0.16	4.00	1.26	32.0	5/8	1.05	26.7	0.28	7.10	1.34	34.03	0.66	16.8
RL116 MCP_3/8 X 1/4	3/8	9.52	G-1/4	0.23	5.80	0.71	18.00	3/4	1.25	31.75	0.44	11.20	1.54	39.11	0.66	16.8
RL116 MCP_3/8 X 3/8	3/8	9.52	G-3/8	0.28	7.10	0.86	21.80	7/8	1.30	33.00	0.44	11.20	1.59	40.40	0.66	16.8
RL116 MCP_3/8 X 1/2	3/8	9.52	G-1/2	0.28	7.10	1.02	26.00	1-1/16	1.53	38.86	0.56	14.20	1.82	46.22	0.66	16.8
RL116 MCP_1/2 X 1/4	1/2	12.70	G-1/4	0.23	5.80	0.71	18.00	13/16	1.28	32.50	0.44	11.20	1.68	42.67	0.90	22.9
RL116 MCP_1/2 X 3/8	1/2	12.70	G-3/8	0.31	7.90	0.86	21.80	7/8	1.30	33.00	0.44	11.20	1.70	43.18	0.90	22.9
RL116 MCP_1/2 X 1/2	1/2	12.70	G-1/2	0.41	10.40	1.02	26.00	1-1/16	1.47	37.40	0.56	14.20	1.87	47.56	0.90	22.9
RL116 MCP_1/2 X 3/4	1/2	12.70	G-3/4	0.41	10.40	1.26	32.00	1-5/16	1.68	42.70	0.62	15.70	2.08	52.86	0.90	22.9
RL116 MCP_5/8 X 3/8	5/8	15.87	G-3/8	0.31	7.90	0.86	21.80	24mm	1.33	33.80	0.44	11.20	1.73	43.96	0.96	24.4
RL116 MCP_5/8 X 1/2	5/8	15.87	G-1/2	0.47	11.90	1.02	26.00	1-1/16	1.53	38.90	0.56	14.20	1.93	49.10	0.96	24.4
RL116 MCP_3/4 X 1/2	3/4	19.05	G-1/2	0.47	11.90	1.02	26.00	1-1/16	1.53	38.86	0.56	14.20	1.93	49.00	0.96	24.4
RL116 MCP_3/4 X 3/4	3/4	19.05	G-3/4	0.62	15.80	1.26	32.00	1-5/16	1.68	42.70	0.62	15.70	2.08	52.83	0.96	24.4
RL116 MCP_1 X 1/2	1	25.40	G-1/2	0.47	11.90	1.02	26.00	1-3/8	1.72	43.70	0.56	14.20	2.20	55.80	1.23	31.2
RL116 MCP_1 X 3/4	1	25.40	G-3/4	0.62	15.90	1.26	32.00	1-3/8	1.78	45.20	0.62	15.70	2.26	57.40	1.23	31.2
RL116 MCP_1 X 1	1	25.40	G-1	0.78	19.80	1.54	39.00	1-5/8	1.88	47.80	0.72	18.30	2.36	59.94	1.23	31.2



RL 116 MCOU MALE CONNECTOR (With O-ring)



O-SEAL MALE UN THREAD

Ordering Information	Y1 Tube O.D.		Y3 Straight Thread UN inch	Y4 min.		Y2		W Hex. Flat inch	X4		X2		X1		X3		**O-RING
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	
RL116 MCOU_1/16 X 5/16-24	1/16	1.58	5/16-24	.05	1.27	.55	14.0	9/16	.90	22.86	.34	8.63	1.05	26.67	.34	8.6	-011
RL116 MCOU_1/8 X 5/16-24	1/8	3.17	5/16-24	.09	2.28	.55	14.0	9/16	1.03	26.20	.34	8.63	1.29	32.77	.50	12.7	-011
RL116 MCOU_3/16 X 3/8 -24	3/16	4.76	3/8 -24	.12	3.04	.62	15.75	5/8	1.09	27.70	.38	9.65	1.35	34.29	.54	12.7	-012
RL116 MCOU_1/4 X 7/16-20	1/4	6.35	7/16-20	.19	4.82	.74	18.80	3/4	1.22	31.00	.41	10.41	1.51	38.35	.60	15.2	-111
RL116 MCOU_5/16 X 1/2 -20	5/16	7.93	1/2 -20	.25	6.35	.86	21.84	7/8	1.31	33.30	.44	11.17	1.60	40.64	.64	16.2	-112
RL116 MCOU_3/8 X 9/16-18	3/8	9.52	9/16-18	.28	7.11	.93	23.62	15/16	1.38	35.05	.47	11.93	1.67	40.89	.66	16.8	-113
RL116 MCOU_1/2 X 3/4 -16	1/2	12.70	3/4 -16	.41	10.41	1.12	28.45	1-1/8	1.41	35.81	.47	11.93	1.81	45.77	.90	22.9	-116
RL116 MCOU_3/4 X 1-1/16-12	3/4	19.05	1-1/16-12	.62	15.74	1.49	37.85	1-1/2	1.66	42.20	.56	14.22	2.06	52.32	.96	24.4	-215
RL116 MCOU_1 X 1-5/16-12	1	25.40	1-5/16-12	.88	22.35	1.74	44.20	1-3/4	1.81	45.97	.56	14.22	2.29	58.17	1.23	32.2	-219

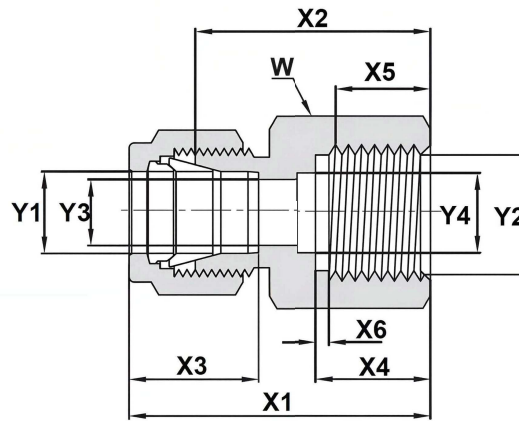
O-SEAL NPT TAPERED THREAD

Ordering Information	Y1 Tube O.D.		Y3 NPT (Short) inch	Y4 (min.)		Y2		W Hex. Flat inch	X4		X2		X1		X3		**O-RING
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	
RL116 MCOU_1/8 X 1/8	1/8	3.17	1/8	.09	2.28	.74	18.79	3/4	1.03	26.16	.28	7.11	1.29	32.76	.50	12.7	-111
RL116 MCOU_1/4 X 1/8	1/4	6.35	1/8	.19	4.82	.74	18.79	3/4	1.09	27.70	.28	7.11	1.38	35.05	.60	15.2	-111
RL116 MCOU_1/4 X 1/4	1/4	6.35	1/4	.19	4.82	.93	23.62	15/16	1.22	31.00	.38	9.65	1.51	38.40	.60	15.2	-113
RL116 MCOU_3/8 X 1/4	3/8	9.52	1/4	.28	7.11	.93	23.62	15/16	1.28	32.51	.38	9.65	1.57	39.88	.66	16.8	-113
RL116 MCOU_3/8 X 3/8	3/8	9.52	3/8	.28	7.11	1.12	28.45	1-1/8	1.34	34.04	.41	10.41	1.63	41.40	.66	16.8	-116
RL116 MCOU_3/8 X 1/2	3/8	9.52	1/2	.28	7.11	1.30	33.02	1-5/16	1.56	39.62	.53	13.46	1.85	46.99	.66	16.8	-212
RL116 MCOU_1/2 X 1/2	1/2	12.70	1/2	.41	10.41	1.30	33.02	1-5/16	1.56	39.62	.53	13.46	1.96	49.78	.90	22.9	-212

Standard O-rings materials are Fluorocarbon FKM 90 Durometer. Other O-ring materials are available upon request.



RL 120 FC FEMALE CONNECTOR



TUBE (METRIC) TO FEMALE ISO PARALLEL THREAD

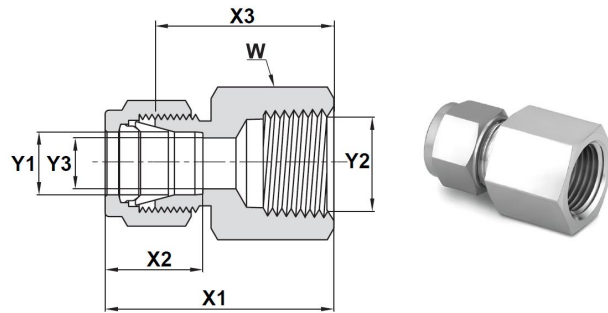
Ordering Information	Y1 Tube O.D mm	Y2 (ISO) inch	Y3 (min.) mm	Y4 mm	W Hex. Flat mm	X4 mm	X5 Min mm	X6 Min mm	X2 mm	X1 mm	X3 mm
RL120 FC _3 X 1/4	3	G-1/4	2.4	5.5	19	13.0	9.5	1.6	28.7	35.3	12.9
RL120 FC _6 X 1/8	6	G-1/8	4.0	4.0	14	10.0	7.0	1.6	25.0	32.4	15.3
RL120 FC _6 X 1/4	6	G-1/4	4.8	5.5	19	13.0	9.5	1.6	30.2	37.6	15.3
RL120 FC _6 X 3/8	6	G-3/8	4.8	6.5	24	14.1	10.0	1.6	30.2	37.6	15.3
RL120 FC _6 X 1/2	6	G-1/2	4.8	7.0	27	19.0	15.0	1.6	36.1	43.5	15.3
RL120 FC _8 X 1/4	8	G-1/4	5.5	5.5	19	13.0	9.5	1.6	31.0	38.5	16.2
RL120 FC _8 X 3/8	8	G-3/8	6.4	6.4	24	14.1	10.0	1.6	28.7	36.2	16.2
RL120 FC _8 X 1/2	8	G-1/2	7.0	7.0	27	19.0	15.0	1.6	33.5	41.0	16.2
RL120 FC _10 X 1/4	10	G-1/4	5.5	5.5	19	13.0	9.5	1.6	31.8	39.4	17.2
RL120 FC _10 X 3/8	10	G-3/8	6.5	6.5	24	14.1	10.0	1.6	31.2	38.8	17.2
RL120 FC _10 X 1/2	10	G-1/2	7.0	7.0	27	19.0	15.0	1.6	34.5	42.1	17.2
RL120 FC _12 X 1/4	12	G-1/4	5.5	5.5	22	13.0	9.5	1.6	31.8	41.9	22.8
RL120 FC _12 X 3/8	12	G-3/8	6.5	6.5	24	14.1	10.0	1.6	34.3	44.4	22.8
RL120 FC _12 X 1/2	12	G-1/2	7.0	7.0	27	19.0	15.0	1.6	38.1	48.2	22.8
RL120 FC _20 X 1/2	20	G-1/2	7.0	7.0	30	19.0	15.0	1.6	44.2	54.3	26.0
RL120 FC _22 X 1/2	22	G-1/2	7.0	7.0	30	19.0	15.0	1.6	44.2	54.3	26.0

TUBE (INCH) TO FEMALE ISO PARALLEL THREAD

Ordering Information	Y1 Tube O.D		Y2 (ISO) inch	Y3 (min.)		Y4		W Hex. Flat inch	X4		X5 Min		X6 Min		X2		X1		X3	
	inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL120 FC _1/8 X 1/4	1/8	3.17	G-1/4	.09	2.3	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.13	28.7	1.39	35.3	.50	12.7
RL120 FC _1/4 X 1/8	1/4	6.35	G-1/8	.16	4.0	.16	4.0	9/16	.40	10.0	.28	7.0	.06	1.6	.98	25.0	1.27	32.4	.60	15.2
RL120 FC _1/4 X 1/4	1/4	6.35	G-1/4	.19	4.8	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.19	30.2	1.48	37.6	.60	15.2
RL120 FC _1/4 X 3/8	1/4	6.35	G-3/8	.19	4.8	.26	6.5	15/16	.56	14.1	.39	10.0	.06	1.6	1.19	30.2	1.48	37.6	.60	15.2
RL120 FC _1/4 X 1/2	1/4	6.35	G-1/2	.19	4.8	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.42	36.1	1.71	43.4	.60	15.2
RL120 FC _5/16 X 1/4	5/16	7.93	G-1/4	.22	5.5	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.22	31.0	1.51	38.4	.64	16.2
RL120 FC _5/16 X 1/2	5/16	7.93	G-1/2	.28	7.0	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.32	33.5	1.61	40.9	.64	16.2
RL120 FC _3/8 X 1/4	3/8	9.52	G-1/4	.22	5.5	.22	5.5	3/4	.51	13.0	.37	9.5	.06	1.6	1.25	31.8	1.54	39.1	.66	16.8
RL120 FC _3/8 X 3/8	3/8	9.52	G-3/8	.26	6.6	.26	6.6	15/16	.56	14.1	.39	10.0	.06	1.6	1.23	31.2	1.52	38.6	.66	16.8
RL120 FC _3/8 X 1/2	3/8	9.52	G-1/2	.28	7.0	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.36	34.5	1.65	41.9	.66	16.8
RL120 FC _1/2 X 3/8	1/2	12.7	G-3/8	.26	6.5	.26	6.5	15/16	.56	14.1	.39	10.0	.06	1.6	1.35	34.3	1.75	44.5	.90	22.9
RL120 FC _1/2 X 1/2	1/2	12.7	G-1/2	.28	7.0	.28	7.0	1-1/16	.74	19.0	.59	15.0	.06	1.6	1.50	38.1	1.90	48.2	.90	22.9



RL 120 FCN FEMALE CONNECTOR

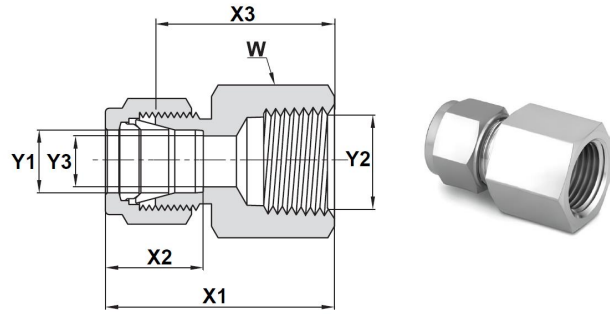


TUBE (METRIC) TO FEMALE NPT THREAD

Ordering Information	Y1 Tube O.D. mm	Y2 (NPT) inch	Y3 (min.) mm	W Hex. Flat mm	X3 mm	X1 mm	X2 mm
RL120 FCN_3 X 1/8	3	1/8	2.4	14	22.1	28.7	12.9
RL120 FCN_3 X 1/4	3	1/4	2.4	19	26.9	33.5	12.9
RL120 FCN_4 X 1/8	4	1/8	2.4	14	23.1	29.7	13.7
RL120 FCN_6 X 1/8	6	1/8	4.8	14	23.9	31.3	15.3
RL120 FCN_6 X 1/4	6	1/4	4.8	19	28.4	35.8	15.3
RL120 FCN_6 X 3/8	6	3/8	4.8	22	30.2	37.6	15.3
RL120 FCN_6 X 1/2	6	1/2	4.8	27	35.1	42.5	15.3
RL120 FCN_8 X 1/8	8	1/8	6.4	15	24.6	32.1	16.2
RL120 FCN_8 X 1/4	8	1/4	6.4	19	29.5	37.0	16.2
RL120 FCN_8 X 3/8	8	3/8	6.4	22	31.0	38.5	16.2
RL120 FCN_8 X 1/2	8	1/2	6.4	27	35.8	43.3	16.2
RL120 FCN_10 X 1/4	10	1/4	7.9	19	30.2	37.8	17.2
RL120 FCN_10 X 3/8	10	3/8	7.9	22	31.8	39.4	17.2
RL120 FCN_10 X 1/2	10	1/2	7.9	27	36.6	44.2	17.2
RL120 FCN_12 X 1/4	12	1/4	9.5	22	30.2	40.3	22.8
RL120 FCN_12 X 3/8	12	3/8	9.5	22	31.8	41.9	22.8
RL120 FCN_12 X 1/2	12	1/2	9.5	27	36.6	46.7	22.8
RL120 FCN_15 X 1/2	15	1/2	11.9	27	36.6	46.7	24.4
RL120 FCN_16 X 1/2	16	1/2	12.7	27	36.8	46.9	24.4
RL120 FCN_20 X 1/2	20	1/2	15.9	30	37.8	47.9	26.0
RL120 FCN_20 X 3/4	20	3/4	15.9	35	39.6	49.7	26.0
RL120 FCN_22 X 3/4	22	3/4	18.3	35	39.6	49.7	26.0
RL120 FCN_22 X 1	22	1	18.3	41	47.8	57.9	26.0
RL120 FCN_25 X 3/4	25	3/4	21.8	35	41.1	53.4	31.3
RL120 FCN_25 X 1	25	1	21.8	41	50.0	62.3	31.3



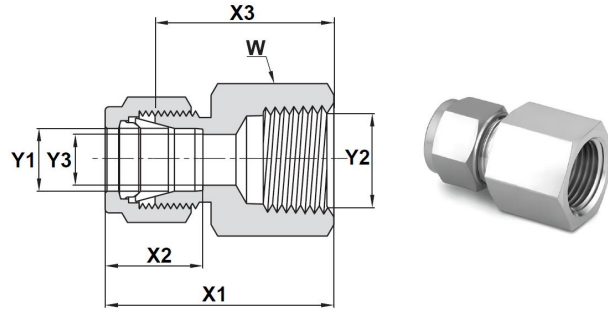
RL 120 FCN FEMALE CONNECTOR (Continued)



TUBE (INCH) TO FEMALE NPT THREAD

Ordering Information	Y1 Tube O.D		Y2 (NPT) inch	Y3 (min.)		W Hex Flat inch	X3		X1		X2	
	inch	mm		inch	mm		inch	mm	inch	mm	inch	mm
RL120 FCN_ 1/16 X 1/16	1/16	1.58	1/16	.05	1.27	7/16	.78	19.81	.93	23.62	.34	8.6
RL120 FCN_ 1/16 X 1/8	1/16	1.58	1/8	.05	1.27	9/16	.81	20.57	.96	24.38	.34	8.6
RL120 FCN_ 1/8 X 1/8	1/8	3.17	1/8	.09	2.28	9/16	.87	22.10	1.13	28.70	.50	12.7
RL120 FCN_ 1/8 X 1/4	1/8	3.17	1/4	.09	2.28	3/4	1.06	26.92	1.32	33.52	.50	12.7
RL120 FCN_ 3/16 X 1/8	3/16	4.76	1/8	.12	3.04	9/16	.91	23.11	1.17	29.71	.54	13.7
RL120 FCN_ 1/4 X 1/8	1/4	6.35	1/8	.19	4.82	9/16	.94	23.87	1.23	31.24	.60	15.2
RL120 FCN_ 1/4 X 1/4	1/4	6.35	1/4	.19	4.82	3/4	1.12	28.44	1.41	35.81	.60	15.2
RL120 FCN_ 1/4 X 3/8	1/4	6.35	3/8	.19	4.82	7/8	1.19	30.22	1.48	37.59	.60	15.2
RL120 FCN_ 1/4 X 1/2	1/4	6.35	1/2	.19	4.82	1-1/16	1.38	35.00	1.67	42.42	.60	15.2
RL120 FCN_ 5/16 X 1/8	5/16	7.93	1/8	.25	6.35	9/16	.97	24.63	1.26	32.00	.64	16.2
RL120 FCN_ 5/16 X 1/4	5/16	7.93	1/4	.25	6.35	3/4	1.16	29.46	1.45	36.83	.64	16.2
RL120 FCN_ 3/8 X 1/8	3/8	9.52	1/8	.28	7.11	5/8	1.00	25.40	1.29	32.76	.66	16.8
RL120 FCN_ 3/8 X 1/4	3/8	9.52	1/4	.28	7.11	3/4	1.19	30.22	1.48	37.59	.66	16.8
RL120 FCN_ 3/8 X 3/8	3/8	9.52	3/8	.28	7.11	7/8	1.25	31.75	1.54	39.11	.66	16.8
RL120 FCN_ 3/8 X 1/2	3/8	9.52	1/2	.28	7.11	1-1/16	1.44	36.57	1.73	43.94	.66	16.8
RL120 FCN_ 3/8 X 3/4	3/8	9.52	3/4	.28	7.11	1-5/16	1.59	40.40	1.88	47.75	.66	16.8
RL120 FCN_ 1/2 X 1/4	1/2	12.70	1/4	.41	10.41	13/16	1.19	30.22	1.59	40.38	.90	22.9
RL120 FCN_ 1/2 X 3/8	1/2	12.70	3/8	.41	10.41	7/8	1.25	31.75	1.65	41.91	.90	22.9
RL120 FCN_ 1/2 X 1/2	1/2	12.70	1/2	.41	10.41	1-1/16	1.44	36.57	1.84	46.73	.90	22.9
RL120 FCN_ 1/2 X 3/4	1/2	12.70	3/4	.41	10.41	1-5/16	1.50	38.10	1.90	48.26	.90	22.9
RL120 FCN_ 5/8 X 3/8	5/8	15.87	3/8	.50	12.70	15/16	1.25	31.75	1.65	41.91	.96	24.4
RL120 FCN_ 5/8 X 1/2	5/8	15.87	1/2	.50	12.70	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
RL120 FCN_ 5/8 X 3/4	5/8	15.87	3/4	.50	12.70	1-5/16	1.50	38.10	1.90	48.26	.96	24.4
RL120 FCN_ 3/4 X 1/2	3/4	19.05	1/2	.62	15.75	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
RL120 FCN_ 3/4 X 3/4	3/4	19.05	3/4	.62	15.75	1-5/16	1.50	38.10	1.90	48.26	.96	24.4
RL120 FCN_ 7/8 X 3/4	7/8	22.22	3/4	.72	18.28	1-5/16	1.56	39.62	1.96	49.78	1.02	25.9
RL120 FCN_ 1X 3/4	1	25.40	3/4	.88	22.35	1-3/8	1.62	41.14	2.10	53.34	1.23	31.2
RL120 FCN_ 1X1	1	25.40	1	.88	22.35	1-5/8	1.97	50.03	2.45	62.23	1.23	31.2
RL120 FCN_ 1-1/4 X 1-1/4	1-1/4	31.75	1-1/4	1.09	27.70	2-1/4	2.07	52.59	2.94	74.68	1.62	41.2
RL120 FCN_ 1-1/2 X 1-1/2	1-1/2	38.10	1-1/2	1.34	34.00	2-3/8	2.21	56.13	3.28	83.31	1.97	50.0
RL120 FCN_ 2 X 2	2	50.80	2	1.81	45.97	2-7/8	2.53	64.26	4.00	101.60	2.66	67.6

RL 120 FCI FEMALE CONNECTOR

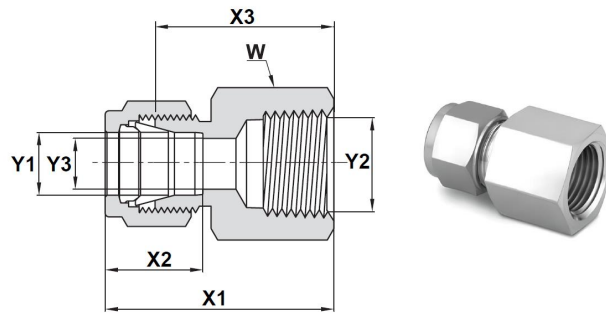


TUBE (METRIC) TO FEMALE ISO TAPERED THREAD

Ordering Information	Y1 Tube O.D. mm	Y2 (ISO) inch	Y3 (min.) mm	W Hex. Flat mm	X2 mm	X1 mm	X2 mm
RL120 FCI_3 X 1/8	3	R-1/8	2.4	14	22.1	28.7	12.9
RL120 FCI_6 X 1/8	6	R-1/8	4.8	14	23.9	31.3	15.3
RL120 FCI_6 X 1/4	6	R-1/4	4.8	19	28.4	35.8	15.3
RL120 FCI_6 X 3/8	6	R-3/8	4.8	22	30.2	37.6	15.3
RL120 FCI_6 X 1/2	6	R-1/2	4.8	27	35.1	42.5	15.3
RL120 FCI_8 X 1/8	8	R-1/8	6.4	15	24.6	32.1	16.2
RL120 FCI_8 X 1/4	8	R-1/4	6.4	19	29.5	37.0	16.2
RL120 FCI_8 X 3/8	8	R-3/8	6.4	22	31.0	38.5	16.2
RL120 FCI_8 X 1/2	8	R-1/2	6.4	27	35.8	43.3	16.2
RL120 FCI_10 X 1/8	10	R-1/8	7.9	18	25.4	33.0	17.2
RL120 FCI_10 X 1/4	10	R-1/4	7.9	19	30.2	37.8	17.2
RL120 FCI_10 X 3/8	10	R-3/8	7.9	22	31.8	39.4	17.2
RL120 FCI_10 X 1/2	10	R-1/2	7.9	27	36.6	44.2	17.2
RL120 FCI_12 X 1/8	12	R-1/8	8.3	22	25.4	35.5	22.8
RL120 FCI_12 X 1/4	12	R-1/4	9.5	22	30.2	40.3	22.8
RL120 FCI_12 X 3/8	12	R-3/8	9.5	22	31.8	41.9	22.8
RL120 FCI_12 X 1/2	12	R-1/2	9.5	27	36.6	46.7	22.8
RL120 FCI_12 X 3/4	12	R-3/4	9.5	35	38.9	49.0	22.8
RL120 FCI_15 X 3/8	15	R-3/8	11.9	24	31.8	41.9	24.4
RL120 FCI_15 X 1/2	15	R-1/2	11.9	27	36.6	46.7	24.4
RL120 FCI_20 X 1/2	20	R-1/2	15.9	30	37.8	47.9	26.0
RL120 FCI_20 X 3/4	20	R-3/4	15.9	35	39.6	49.7	26.0
RL120 FCI_22 X 3/4	22	R-3/4	18.3	35	39.6	49.7	26.0
RL120 FCI_22 X 1	22	R-1	18.3	41	47.8	57.9	26.0
RL120 FCI_25 X 3/4	25	R-3/4	21.8	35	41.1	53.4	31.3
RL120 FCI_25 X 1	25	R-1	21.8	41	50.0	62.3	31.3



RL 120 FCI FEMALE CONNECTOR (Continued)

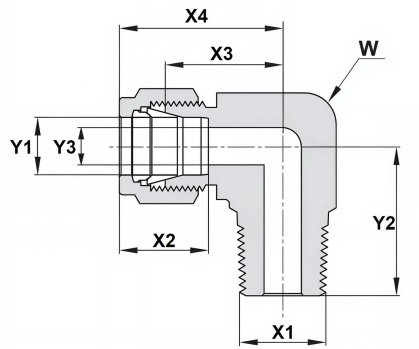


TUBE (INCH) TO FEMALE ISO TAPERED THREAD

Ordering Information	Y1 Tube O.D		Y2 (ISO) inch	Y3 (min.)		W Hex Flat Inch	X2		X1		X3	
	Inch	mm		Inch	mm		Inch	mm	Inch	mm	Inch	mm
RL120 FCI_1/16 X 1/16	1/16	1.58	R-1/16	.05	1.27	7/16	.78	19.81	.93	23.62	.34	8.6
RL120 FCI_1/16 X 1/8	1/16	1.58	R-1/8	.05	1.27	9/16	.81	20.57	.96	24.38	.34	8.6
RL120 FCI_1/8 X 1/8	1/8	3.17	R-1/8	.09	2.28	9/16	.87	22.10	1.13	28.70	.50	12.7
RL120 FCI_1/8 X 1/4	1/8	3.17	R-1/4	.09	2.28	3/4	1.06	26.92	1.32	33.52	.50	12.7
RL120 FCI_3/16 X 1/8	3/16	4.76	R-1/8	.12	3.04	9/16	.91	23.11	1.17	29.71	.54	13.7
RL120 FCI_1/4 X 1/8	1/4	6.35	R-1/8	.19	4.82	9/16	.94	23.87	1.23	31.24	.60	15.2
RL120 FCI_1/4 X 1/4	1/4	6.35	R-1/4	.19	4.82	3/4	1.12	28.44	1.41	35.81	.60	15.2
RL120 FCI_1/4 X 3/8	1/4	6.35	R-3/8	.19	4.82	7/8	1.19	30.22	1.48	37.59	.60	15.2
RL120 FCI_1/4 X 1/2	1/4	6.35	R-1/2	.19	4.82	1-1/16	1.38	35.00	1.67	42.42	.60	15.2
RL120 FCI_5/16 X 1/4	5/16	7.93	R-1/4	.25	6.35	3/4	1.16	29.46	1.45	36.83	.64	16.2
RL120 FCI_3/8 X 1/8	3/8	9.52	R-1/8	.28	7.11	5/8	1.00	25.40	1.29	32.76	.66	16.8
RL120 FCI_3/8 X 1/4	3/8	9.52	R-1/4	.28	7.11	3/4	1.19	30.22	1.48	37.59	.66	16.8
RL120 FCI_3/8 X 3/8	3/8	9.52	R-3/8	.28	7.11	7/8	1.25	31.75	1.54	39.11	.66	16.8
RL120 FCI_3/8 X 1/2	3/8	9.52	R-1/2	.28	7.11	1-1/16	1.44	36.57	1.73	43.94	.66	16.8
RL120 FCI_1/2 X 1/4	1/2	12.70	R-1/4	.41	10.41	13/16	1.19	30.20	1.59	40.38	.90	22.9
RL120 FCI_1/2 X 3/8	1/2	12.70	R-3/8	.41	10.41	7/8	1.25	31.75	1.65	41.91	.90	22.9
RL120 FCI_1/2 X 1/2	1/2	12.70	R-1/2	.41	10.41	1-1/16	1.44	36.57	1.84	46.73	.90	22.9
RL120 FCI_5/8 X 1/2	5/8	15.87	R-1/2	.50	12.70	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
RL120 FCI_3/4 X 1/2	3/4	19.05	R-1/2	.62	15.75	1-1/16	1.44	36.57	1.84	46.73	.96	24.4
RL120 FCI_3/4 X 3/4	3/4	19.05	R-3/4	.62	15.75	1-5/16	1.50	38.10	1.90	48.26	.96	24.4
RL120 FCI_1 X 3/4	1	25.40	R-3/4	.88	22.35	1-3/8	1.62	41.14	2.10	53.34	1.23	31.2
RL120 FCI_1 X 1	1	25.40	R-1	.88	22.35	1-5/8	1.97	50.03	2.45	62.23	1.23	31.2



RL 122 ME MALE ELBOW

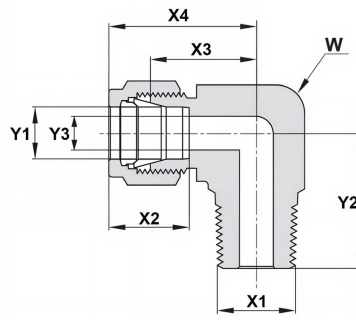


TUBE (METRIC) MALE NPT THREAD

Ordering information	Y1 Tube O.D. mm	X1 (NPT) inch	Y3 (min.) mm	W Wrench Flat		X3 mm	X4 mm	Y2 mm	X2 mm
				inch	mm				
RL 122 ME _3 X 1/8	3	1/8	2.4	7/16	11.1	17.0	23.6	17.8	12.9
RL 122 ME _3 X 1/4	3	1/4	2.4	1/2	12.7	18.0	24.6	23.4	12.9
RL 122 ME _4 X 1/8	4	1/8	2.4	1/2	12.7	18.8	25.4	18.8	13.7
RL 122 ME _4 X 1/4	4	1/4	2.4	1/2	12.7	18.8	25.4	23.4	13.7
RL 122 ME _6 X 1/8	6	1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
RL 122 ME _6 X 1/4	6	1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
RL 122 ME _6 X 3/8	6	3/8	4.8	11/16	17.5	22.4	29.8	26.2	15.3
RL 122 ME _6 X 1/2	6	1/2	4.8	13/16	20.6	24.4	31.8	33.0	15.3
RL 122 ME _8 X 1/8	8	1/8	4.8	9/16	14.3	21.3	28.8	19.8	16.2
RL 122 ME _8 X 1/4	8	1/4	6.4	9/16	14.3	21.3	28.8	24.4	16.2
RL 122 ME _8 X 3/8	8	3/8	6.4	11/16	17.5	23.1	30.6	26.2	16.2
RL 122 ME _8 X 1/2	8	1/2	6.4	13/16	20.6	25.1	32.6	33.0	16.2
RL 122 ME _10 X 1/8	10	1/8	4.8	11/16	17.5	23.9	31.5	21.6	17.2
RL 122 ME _10 X 1/4	10	1/4	7.1	11/16	17.5	23.9	31.5	26.2	17.2
RL 122 ME _10 X 3/8	10	3/8	7.9	11/16	17.5	23.9	31.5	26.2	17.2
RL 122 ME _10 X 1/2	10	1/2	7.9	13/16	20.6	25.9	33.5	33.0	17.2
RL 122 ME _12 X 1/8	12	1/8	4.8	13/16	20.6	25.9	36.0	23.6	22.8
RL 122 ME _12 X 1/4	12	1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
RL 122 ME _12 X 3/8	12	3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
RL 122 ME _12 X 1/2	12	1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
RL 122 ME _12 X 3/4	12	3/4	9.5	1-1/16	27.0	29.7	39.8	36.8	22.8
RL 122 ME _15 X 1/2	15	1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
RL 122 ME _16 X 3/8	16	3/8	9.5	15/16	23.8	27.9	38.0	30.2	24.4
RL 122 ME _16 X 1/2	16	1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
RL 122 ME _16 X 3/4	16	3/4	12.7	1-1/16	27.0	29.7	39.8	36.8	24.4
RL 122 ME _18 X 1/2	18	1/2	11.9	1-1/16	27.0	29.7	39.8	36.8	24.4
RL 122 ME _18 X 3/4	18	3/4	15.1	1-1/16	27.0	29.7	39.8	36.8	24.4
RL 122 ME _20 X 1/2	20	1/2	11.9	1-3/8	34.9	34.5	44.6	41.7	26.0
RL 122 ME _20 X 3/4	20	3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
RL 122 ME _22 X 3/4	22	3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
RL 122 ME _22 X 1	22	1	18.3	1-3/8	34.9	34.5	44.6	46.5	26.0
RL 122 ME _25 X 3/4	25	3/4	15.9	1-3/8	34.9	36.8	49.1	41.7	31.3
RL 122 ME _25 X 1	25	1	21.8	1-3/8	34.9	36.8	49.1	46.5	31.3
RL 122 ME _38 X 1-1/2	38	1-1/2	33.7	-	55.0	56.4	84.0	60.4	49.4



RL 122 ME MALE ELBOW (Continued)

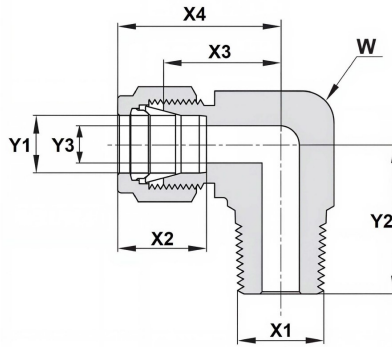


TUBE (INCH) MALE NPT THREAD

Ordering Information	Y1 Tube O.D.		X1 (NPT)	Y3 (min.)		W Wrench Flat		X3		X4		Y2		X2	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL122 ME _1/16 X 1/16	1/16	1.58	1/16	.05	1.27	7/16	11.1	.60	15.24	.75	19.05	.70	17.78	.34	8.6
RL122 ME _1/16 X 1/8	1/16	1.58	1/8	.05	1.27	7/16	11.1	.60	15.24	.75	19.05	.70	17.78	.34	8.6
RL122 ME _1/8 X 1/16	1/8	3.17	1/16	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
RL122 ME _1/8 X 1/8	1/8	3.17	1/8	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
RL122 ME _1/8 X 1/4	1/8	3.17	1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.37	.50	12.7
RL122 ME _3/16 X 1/8	3/16	4.76	1/8	.12	3.04	1/2	12.7	.74	18.80	1.00	25.40	.74	18.80	.54	13.7
RL122 ME _3/16 X 1/4	3/16	4.76	1/4	.12	3.04	1/2	12.7	.74	18.80	1.00	25.40	.92	23.37	.54	13.7
RL122 ME _1/4 X 1/16	1/4	6.35	1/16	.12	3.04	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
RL122 ME _1/4 X 1/8	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
RL122 ME _1/4 X 1/4	1/4	6.35	1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
RL122 ME _1/4 X 3/8	1/4	6.35	3/8	.19	4.82	11/16	17.5	.88	22.35	1.17	29.71	1.03	26.16	.60	15.2
RL122 ME _1/4 X 1/2	1/4	6.35	1/2	.19	4.82	13/16	20.6	.96	24.38	1.25	31.75	1.30	33.02	.60	15.2
RL122 ME _5/16 X 1/8	5/16	7.93	1/8	.19	4.82	9/16	14.3	.84	21.34	1.13	28.70	.78	19.81	.64	16.2
RL122 ME _5/16 X 1/4	5/16	7.93	1/4	.25	6.35	9/16	14.3	.84	21.34	1.13	28.70	.96	24.38	.64	16.2
RL122 ME _5/16 X 3/8	5/16	7.93	3/8	.25	6.35	11/16	17.5	.91	23.11	1.20	30.48	1.03	26.16	.64	16.2
RL122 ME _3/8 X 1/8	3/8	9.52	1/8	.19	4.82	5/8	15.9	.91	23.11	1.20	30.48	.82	20.83	.66	16.8
RL122 ME _3/8 X 1/4	3/8	9.52	1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
RL122 ME _3/8 X 3/8	3/8	9.52	3/8	.28	7.11	11/16	17.5	.94	23.87	1.23	31.24	1.03	26.16	.66	16.8
RL122 ME _3/8 X 1/2	3/8	9.52	1/2	.28	7.11	13/16	20.6	1.02	25.90	1.31	33.28	1.30	33.02	.66	16.8
RL122 ME _3/8 X 3/4	3/8	9.52	3/4	.28	7.11	1-1/16	27.0	1.17	29.71	1.46	37.08	1.45	36.83	.66	16.8
RL122 ME _1/2 X 1/4	1/2	12.70	1/4	.28	7.11	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
RL122 ME _1/2 X 3/8	1/2	12.70	3/8	.38	9.50	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
RL122 ME _1/2 X 1/2	1/2	12.70	1/2	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	1.30	33.02	.90	22.9
RL122 ME _1/2 X 3/4	1/2	12.70	3/4	.41	10.41	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.90	22.9
RL122 ME _5/8 X 3/8	5/8	15.87	3/8	.38	9.61	15/16	23.8	1.10	27.94	1.50	38.10	1.19	30.23	.96	24.4
RL122 ME _5/8 X 1/2	5/8	15.87	1/2	.47	11.94	15/16	23.8	1.10	27.94	1.50	38.10	1.38	35.05	.96	24.4
RL122 ME _5/8 X 3/4	5/8	15.87	3/4	.50	12.70	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
RL122 ME _3/4 X 1/2	3/4	19.05	1/2	.47	11.94	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
RL122 ME _3/4 X 3/4	3/4	19.05	3/4	.62	15.74	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
RL122 ME _7/8 X 3/4	7/8	22.22	3/4	.62	15.74	1-3/8	34.9	1.36	34.54	1.76	44.70	1.64	41.66	1.02	25.9
RL122 ME _1 X 3/4	1	25.40	3/4	.62	15.74	1-3/8	34.9	1.45	36.83	1.93	49.02	1.64	41.66	1.23	31.2
RL122 ME _1 X 1	1	25.40	1	.86	21.84	1-3/8	34.9	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2
RL122 ME _1-1/4 X 1-1/4	1-1/4	31.75	1-1/4	1.09	27.70	1-11/16	42.9	1.75	44.45	2.62	66.50	1.88	47.75	1.62	41.2
RL122 ME _1-1/2 X 1-1/2	1-1/2	38.10	1-1/2	1.34	34.00	2	50.8	2.00	50.80	3.07	78.00	2.38	60.45	1.97	50.0
RL122 ME _2 X 2	2	50.80	2	1.81	45.97	2-3/4	69.9	2.75	69.85	4.22	107.19	2.78	70.61	2.66	67.6



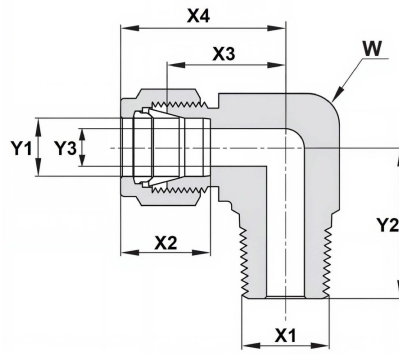
RL 122 MEI MALE ELBOW



TUBE (METRIC) ISO TAPERED THREAD

Ordering Information	Y1 Tube O.D. mm	X1 (ISO) inch	Y3 (min.) mm	W Wrench Flat		X3 mm	X4 mm	Y2 mm	X2 mm
				inch	mm				
RL122 MEI _3 X 1/8	3	R-1/8	2.4	7/16	11.1	17.0	23.6	17.8	12.9
RL122 MEI _3 X 1/4	3	R-1/4	2.4	1/2	12.7	18.0	24.6	23.4	12.9
RL122 MEI _4 X 1/8	4	R-1/8	2.4	1/2	12.7	18.8	25.4	18.8	13.7
RL122 MEI _4 X 1/4	4	R-1/4	2.4	1/2	12.7	18.8	25.4	23.4	13.7
RL122 MEI _6 X 1/8	6	R-1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
RL122 MEI _6 X 1/4	6	R-1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
RL122 MEI _6 X 3/8	6	R-3/8	4.8	11/16	17.5	22.4	29.8	26.2	15.3
RL122 MEI _6 X 1/2	6	R-1/2	4.8	13/16	20.6	24.4	31.8	33.0	15.3
RL122 MEI _8 X 1/8	8	R-1/8	4.8	9/16	14.3	21.3	28.8	19.8	16.2
RL122 MEI _8 X 1/4	8	R-1/4	6.4	9/16	14.3	21.3	28.8	24.4	16.2
RL122 MEI _8 X 3/8	8	R-3/8	6.4	11/16	17.5	23.1	30.6	26.2	16.2
RL122 MEI _8 X 1/2	8	R-1/2	6.4	13/16	20.6	25.1	32.6	33.0	16.2
RL122 MEI _10 X 1/8	10	R-1/8	4.8	11/16	17.5	23.9	31.5	21.6	17.2
RL122 MEI _10 X 1/4	10	R-1/4	7.1	11/16	17.5	23.9	31.5	26.2	17.2
RL122 MEI _10 X 3/8	10	R-3/8	7.9	11/16	17.5	23.9	31.5	26.2	17.2
RL122 MEI _10 X 1/2	10	R-1/2	7.9	13/16	20.6	25.9	33.5	33.0	17.2
RL122 MEI _12 X 1/8	12	R-1/8	4.8	13/16	20.6	25.9	36.0	23.6	22.8
RL122 MEI _12 X 1/4	12	R-1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
RL122 MEI _12 X 3/8	12	R-3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
RL122 MEI _12 X 1/2	12	R-1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
RL122 MEI _12 X 3/4	12	R-3/4	9.5	1-1/16	27.0	29.7	39.8	36.8	22.8
RL122 MEI _14 X 1/2	14	R-1/2	11.0	15/16	23.8	27.9	38.0	35.0	24.4
RL122 MEI _15 X 1/2	15	R-1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
RL122 MEI _16 X 3/8	16	R-3/8	9.5	15/16	23.8	27.9	38.0	30.2	24.4
RL122 MEI _16 X 1/2	16	R-1/2	11.9	15/16	23.8	27.9	38.0	35.1	24.4
RL122 MEI _18 X 1/2	18	R-1/2	11.9	1-1/16	27.0	29.7	39.8	36.8	24.4
RL122 MEI _18 X 3/4	18	R-3/4	15.1	1-1/16	27.0	29.7	39.8	36.8	24.4
RL122 MEI _20 X 1/2	20	R-1/2	11.9	1-3/8	34.9	34.5	44.6	41.7	26.0
RL122 MEI _20 X 3/4	20	R-3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
RL122 MEI _22 X 3/4	22	R-3/4	15.9	1-3/8	34.9	34.5	44.6	41.7	26.0
RL122 MEI _22 X 1	22	R-1	18.3	1-3/8	34.9	34.5	44.6	46.5	26.0
RL122 MEI _25 X 3/4	25	R-3/4	15.9	1-3/8	34.9	36.8	49.1	41.7	31.3
RL122 MEI _25 X 1	25	R-1	21.8	1-3/8	34.9	36.8	49.1	46.5	31.3

RL 122 MEI MALE ELBOW (Continued)

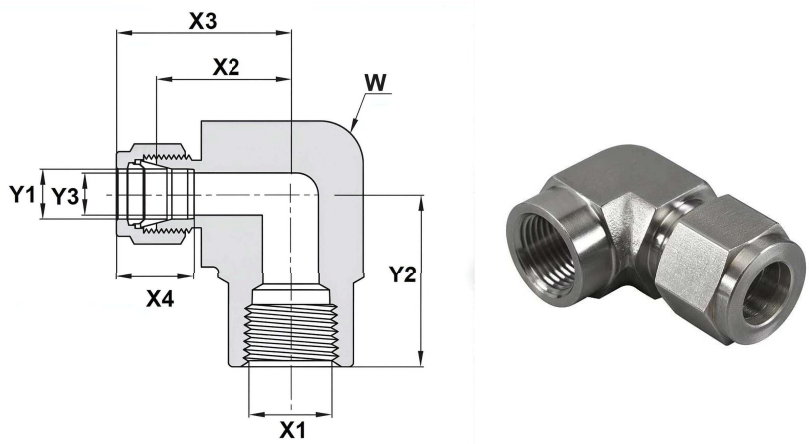


TUBE (INCH) ISO TAPERED THREAD

Ordering Information	Y1 Tube O.D.		X1 (ISO) inch	Y3 (min.)		W Wrench Flat		X3		X4		Y2		X2	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL122 MEI _1/8 X 1/8	1/8	3.17	R-1/8	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
RL122 MEI _1/8 X 1/4	1/8	3.17	R-1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.37	.50	12.7
RL122 MEI _1/4 X 1/8	1/4	6.35	R-1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
RL122 MEI _1/4 X 1/4	1/4	6.35	R-1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
RL122 MEI _1/4 X 3/8	1/4	6.35	R-3/8	.19	4.82	11/16	17.5	.88	22.35	1.17	29.71	1.03	26.16	.60	15.2
RL122 MEI _1/4 X 1/2	1/4	6.35	R-1/2	.19	4.82	13/16	20.6	.96	24.38	1.25	31.75	1.30	33.02	.60	15.2
RL122 MEI _5/16 X 1/4	5/16	7.93	R-1/4	.25	6.35	9/16	14.3	.84	21.34	1.13	28.70	.96	24.38	.64	16.2
RL122 MEI _3/8 X 1/8	3/8	9.52	R-1/8	.19	4.82	5/8	15.9	.91	23.11	1.20	30.48	.82	20.83	.66	16.8
RL122 MEI _3/8 X 1/4	3/8	9.52	R-1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
RL122 MEI _3/8 X 3/8	3/8	9.52	R-3/8	.28	7.11	11/16	17.5	.94	23.87	1.23	31.24	1.03	26.16	.66	16.8
RL122 MEI _1/2 X 1/4	1/2	12.70	R-1/4	.28	7.11	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
RL122 MEI _1/2 X 3/8	1/2	12.70	R-3/8	.38	9.50	13/16	20.6	1.02	25.90	1.42	36.07	1.11	28.19	.90	22.9
RL122 MEI _1/2 X 1/2	1/2	12.70	R-1/2	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	1.30	33.02	.90	22.9
RL122 MEI _3/4 X 1/2	3/4	19.05	R-1/2	.47	11.94	1-1/16	27.0	1.17	29.71	1.57	39.88	1.45	36.83	.96	24.4
RL122 MEI _1 X 1	1	25.40	R-1	.86	21.84	1-3/8	34.9	1.45	36.83	1.93	49.02	1.83	46.48	1.23	31.2



RL 126 FE FEMALE ELBOW



TUBE (METRIC) TO FEMALE NPT THREAD

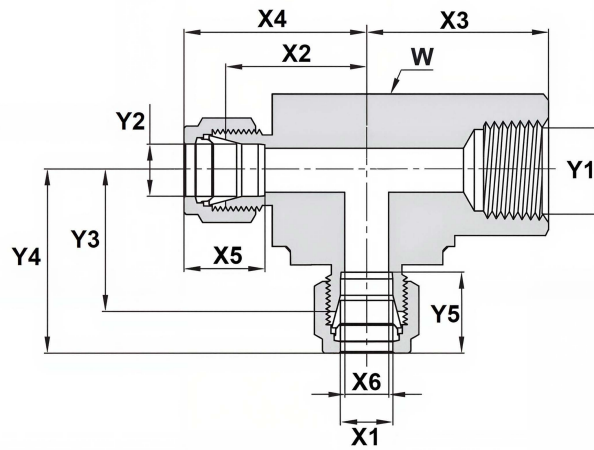
Ordering Information	Y1 Tube O.D. mm	X1 (NPT) inch	Y3 (min.) mm	W Wrench Flat		X2 mm	X3 mm	Y2 mm	X4 mm
				inch	mm				
RL126 FE _6 X 1/8	6	1/8	4.8	1/2	12.7	19.6	27.0	19.0	15.3
RL126 FE _6 X 1/4	6	1/4	4.8	11/16	17.5	22.4	29.8	22.4	15.3
RL126 FE _6 X 1/2	6	1/2	4.8	1-1/16	27.0	27.2	34.6	28.4	15.3
RL126 FE _8 X 1/4	8	1/4	6.4	11/16	17.5	23.1	30.6	22.4	16.2
RL126 FE _10 X 1/8	10	1/8	7.9	11/16	17.5	23.9	31.5	19.0	17.2
RL126 FE _10 X 1/4	10	1/4	7.9	13/16	20.6	25.9	33.5	22.4	17.2
RL126 FE _12 X 1/4	12	1/4	9.5	13/16	20.6	25.9	36.0	22.4	22.8
RL126 FE _12 X 1/2	12	1/2	9.5	1-1/16	27.0	28.7	38.8	28.4	22.8
RL126 FE _16 X 1/2	16	1/2	12.7	1-1/16	27.0	29.7	39.8	28.4	24.4

TUBE (INCH) TO FEMALE NPT THREAD

Ordering Information	Y1 Tube O.D.		X1 (NPT) inch	Y3 (min.)		W Wrench Flat		X2		X3		Y2		X4	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL126 FE _1/8 X 1/8	1/8	3.17	1/8	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.75	19.05	.50	12.7
RL126 FE _1/8 X 1/4	1/8	3.17	1/4	.09	2.28	11/16	17.5	.82	20.80	1.08	27.43	.88	22.40	.50	12.7
RL126 FE _3/16 X 1/8	3/16	4.76	1/8	.12	3.04	1/2	12.7	.74	18.80	1.00	25.40	.75	19.05	.54	13.7
RL126 FE _1/4 X 1/8	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.55	1.06	26.92	.75	19.05	.60	15.2
RL126 FE _1/4 X 1/4	1/4	6.35	1/4	.19	4.82	11/16	17.5	.88	22.40	1.17	29.72	.88	22.40	.60	15.2
RL126 FE _1/4 X 3/8	1/4	6.35	3/8	.19	4.82	15/16	23.8	.96	24.38	1.25	31.75	.88	22.40	.60	15.2
RL126 FE _1/4 X 1/2	1/4	6.35	1/2	.19	4.82	1-1/16	27.0	1.07	27.18	1.36	34.54	1.12	28.45	.60	15.2
RL126 FE _5/16 X 1/8	5/16	7.93	1/8	.25	6.35	9/16	14.3	.84	21.30	1.13	28.70	.75	19.05	.64	16.2
RL126 FE _5/16 X 1/4	5/16	7.93	1/4	.25	6.35	11/16	17.5	.91	23.11	1.20	30.48	.88	22.40	.64	16.2
RL126 FE _3/8 X 1/8	3/8	9.52	1/8	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	.75	19.05	.66	16.8
RL126 FE _3/8 X 1/4	3/8	9.52	1/4	.28	7.11	11/16	17.5	0.94	23.87	1.23	31.24	.88	22.40	.66	16.8
RL126 FE _3/8 X 3/8	3/8	9.52	3/8	.28	7.11	15/16	23.8	1.02	25.90	1.31	33.27	.88	22.40	.66	16.8
RL126 FE _3/8 X 1/2	3/8	9.52	1/2	.28	7.11	1-1/16	27.0	1.13	28.70	1.42	36.07	1.12	28.45	.66	16.8
RL126 FE _1/2 X 1/4	1/2	12.70	1/4	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	.88	22.40	.90	22.9
RL126 FE _1/2 X 3/8	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.90	1.42	36.07	.88	22.40	.90	22.9
RL126 FE _1/2 X 1/2	1/2	12.70	1/2	.41	10.41	1-1/16	27.0	1.13	28.70	1.53	36.86	1.12	28.45	.90	22.9
RL126 FE _5/8 X 3/8	5/8	15.87	3/8	.50	12.70	15/16	23.8	1.10	27.90	1.50	38.10	.88	22.40	.96	24.4
RL126 FE _5/8 X 1/2	5/8	15.87	1/2	.50	12.70	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	.96	24.4
RL126 FE _3/4 X 1/2	3/4	19.05	1/2	.62	15.74	1-1/16	27.0	1.17	29.70	1.57	39.86	1.12	28.45	.96	24.4
RL126 FE _3/4 X 3/4	3/4	19.05	3/4	.62	15.74	1-3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4
RL126 FE _7/8 X 3/4	7/8	22.22	3/4	.72	18.28	1-3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	1.02	25.9
RL126 FE _1 X 3/4	1	25.40	3/4	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
RL126 FE _1 X 1	1	25.40	1	.88	22.35	1-11/16	42.9	1.63	41.40	2.11	53.59	1.50	38.10	1.23	31.2



RL 127 FRT FEMALE RUN TEE



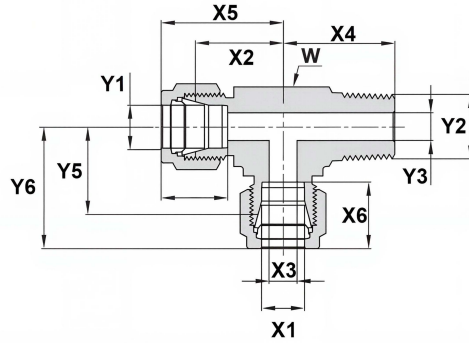
TUBE (METRIC) TO FEMALE NPT THREAD

Ordering Information	X1 Y2 Tube O.D. mm	Y1 (NPT) inch	X6 (min.) mm	W Wrench Flat		X2 Y3 mm	X4 Y4 mm	X3 mm	X5 Y5 mm
				inch	mm				
RL127 FRT _6 X 1/8	6	1/8	4.8	5/8	15.9	19.6	27.0	19.0	15.3
RL127 FRT _6 X 1/4	6	1/4	4.8	13/16	20.6	22.4	29.8	22.4	15.3
RL127 FRT _8 X 1/8	8	1/8	6.4	5/8	15.9	22.4	29.9	22.4	16.2
RL127 FRT _8 X 1/4	8	1/4	6.4	13/16	20.6	23.1	30.6	22.4	16.2
RL127 FRT _10 X 1/4	10	1/4	7.9	13/16	20.6	25.9	33.5	22.4	17.2
RL127 FRT _12 X 1/4	12	1/4	9.5	13/16	20.6	25.9	36.0	22.4	22.8
RL127 FRT _12 X 3/8	12	3/8	9.5	15/16	23.8	25.9	36.0	22.4	22.8
RL127 FRT _12 X 1/2	12	1/2	9.5	1-1/16	27.0	29.7	39.8	28.4	22.8
RL127 FRT _16 X 1/2	16	1/2	12.7	1-1/16	27.0	29.7	39.8	28.4	24.4

TUBE (INCH) TO FEMALE NPT THREAD

Ordering Information	X1 Y2 Tube O.D.		Y1 (NPT) inch	X6 (min.)		W Wrench Flat		X2 Y3		X4 Y4		X3		X5 Y5	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL127 FRT _1/8 X 1/8	1/8	3.17	1/8	.09	2.28	5/8	15.9	.71	18.00	.97	24.63	.75	19.05	.50	12.7
RL127 FRT _1/4 X 1/8	1/4	6.35	1/8	.19	4.82	5/8	15.9	.77	19.55	1.06	26.92	.75	19.05	.60	15.2
RL127 FRT _1/4 X 1/4	1/4	6.35	1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
RL127 FRT _3/8 X 1/4	3/8	9.52	1/4	.28	7.11	13/16	20.6	.94	23.87	1.23	31.24	.88	22.35	.66	16.8
RL127 FRT _1/2 X 3/8	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.9	1.42	36.07	.88	22.35	.90	22.9
RL127 FRT _1/2 X 1/2	1/2	12.70	1/2	.41	10.41	1-1/16	27.0	1.17	29.72	1.57	39.88	1.12	28.45	.90	22.9
RL127 FRT _3/4 X 3/4	3/4	19.05	3/4	.62	15.75	1-3/8	34.9	1.36	34.54	1.76	44.70	1.25	31.75	.96	24.4
RL127 FRT _1 X 3/4	1	25.4	3/4	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
RL127 FRT _1 X 1	1	25.4	1	.88	22.35	1-1/16	42.9	1.63	41.40	2.11	53.59	1.50	38.10	1.23	31.2

RL 128 MRT MALE RUN TEE



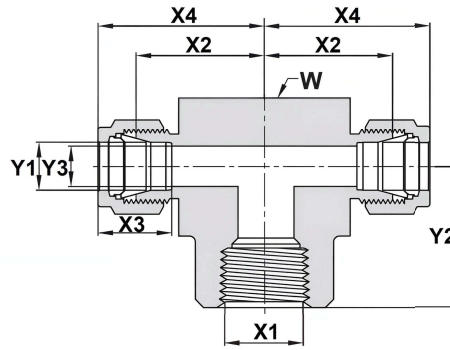
TUBE (METRIC) TO MALE NPT THREAD

Ordering Information	X1 Y1 Tube O.D. mm	Y2 (NPT) inch	X3 Y3 (min.) mm	W Wrench Flat		X2 Y5 mm	X5 Y6 mm	X4 mm	X6 mm
				inch	mm				
RL128 MRT _6 X 1/8	6	1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
RL128 MRT _6 X 1/4	6	1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
RL128 MRT _8 X 1/8	8	1/8	4.8	5/8	15.9	22.4	29.9x	20.8	16.2
RL128 MRT _8 X 1/4	8	1/4	6.4	5/8	15.9	22.4	29.9	25.4	16.2
RL128 MRT _10 X 1/4	10	1/4	7.1	13/16	20.6	25.9	33.5	28.2	17.2
RL128 MRT _12 X 1/4	12	1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
RL128 MRT _12 X 3/8	12	3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
RL128 MRT _12 X 1/2	12	1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
RL128 MRT _16 X 1/2	16	1/2	11.9	15/16	23.8	27.9	38.0	35.0	24.4

TUBE (INCH) TO MALE NPT THREAD

Ordering Information	X1 Y1 Tube O.D.		Y2 (NPT)	X3 Y3 (min.)		W Wrench Flat		X2 Y5		X5 Y6		X4		X6	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL128 MRT _1/8 X 1/8	1/8	3.17	1/8	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
RL128 MRT _1/8 X 1/4	1/8	3.17	1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.40	.50	12.7
RL128 MRT _3/16 X 1/8	3/16	4.76	1/8	.12	3.05	7/16	11.1	.70	17.78	.96	24.38	.70	17.78	.54	13.7
RL128 MRT _1/4 X 1/8	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.8	.60	15.2
RL128 MRT _1/4 X 1/4	1/4	6.35	1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
RL128 MRT _5/16 X 1/8	5/16	7.93	1/8	.19	4.82	5/8	15.9	.88	22.35	1.17	29.71	.82	20.83	.64	16.2
RL128 MRT _3/8 X 1/4	3/8	9.52	1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
RL128 MRT _3/8 X 3/8	3/8	9.52	3/8	.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	.66	16.8
RL128 MRT _1/2 X 3/8	1/2	12.70	3/8	.38	9.5	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	.90	22.9
RL128 MRT _1/2 X 1/2	1/2	12.70	1/2	.41	10.41	13/16	20.6	1.02	25.91	1.42	36.07	1.30	33.00	.90	22.9
RL128 MRT _5/8 X 1/2	5/8	15.87	1/2	.47	11.94	15/16	23.8	1.10	27.94	1.50	38.1	1.38	35.05	.96	24.4
RL128 MRT _3/4 X 3/4	3/4	19.05	3/4	.62	15.75	1-1/16	27.0	1.17	29.72	1.57	39.88	1.45	36.83	.96	24.4

RL 129 FBT FEMALE BRANCH TEE



TUBE (METRIC) TO FEMALE NPT THREAD

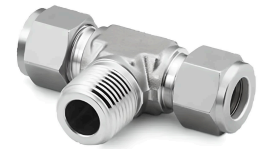
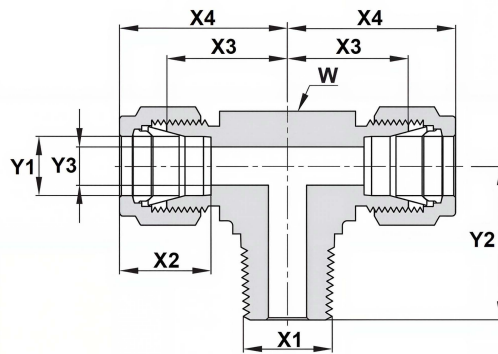
Ordering Information	Y1 Tube O.D. mm	X1 (NPT) inch	Y3 (min.) mm	W Wrench Flat		X2 mm	X4 mm	Y2 mm	X3 mm
				inch	mm				
RL129 FBT_6 X 1/8	6	1/8	4.8	5/8	15.9	19.6	27.0	19.0	15.3
RL129 FBT_6 X 1/4	6	1/4	4.8	13/16	20.6	22.4	29.8	22.4	15.3
RL129 FBT_8 X 1/8	8	1/8	6.4	5/8	15.9	22.4	29.9	19.0	16.2
RL129 FBT_8 X 1/4	8	1/4	6.4	13/16	20.6	23.1	30.6	22.4	16.2
RL129 FBT_10 X 1/4	10	1/4	7.9	13/16	20.6	25.9	33.5	22.4	17.2
RL129 FBT_10 X 3/8	10	3/8	7.9	15/16	23.8	25.9	33.5	22.4	17.2
RL129 FBT_12 X 1/4	12	1/4	9.5	13/16	20.6	25.9	36.0	22.4	22.8
RL129 FBT_12 X 3/8	12	3/8	9.5	15/16	23.8	25.9	36.0	22.4	22.8
RL129 FBT_12 X 1/2	12	1/2	9.5	1-1/16	27.0	28.7	38.8	28.4	22.8
RL129 FBT_16 X 1/2	16	1/2	12.7	1-1/16	27.0	28.7	38.8	28.4	24.4

TUBE (INCH) TO FEMALE NPT THREAD

Ordering Information	Y1 Tube O.D.		X1 (NPT) inch	Y3 (min.)		W Wrench Flat		X2		X4		Y2		X3	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL129 FBT_1/8 X 1/8	1/8	3.17	1/8	.09	2.28	5/8	15.9	.70	18.00	.97	24.64	.75	19.05	.50	12.7
RL129 FBT_1/4 X 1/8	1/4	6.35	1/8	.19	4.82	5/8	15.9	.77	19.56	1.06	26.96	.75	19.05	.60	15.2
RL129 FBT_1/4 X 1/4	1/4	6.35	1/4	.19	4.82	13/16	20.6	.88	22.35	1.17	29.71	.88	22.35	.60	15.2
RL129 FBT_3/8 X 1/4	3/8	9.52	1/4	.28	7.11	13/16	20.6	.94	23.88	1.23	31.24	.88	22.35	.66	16.8
RL129 FBT_3/8 X 3/8	3/8	9.52	3/8	.28	7.11	15/16	23.8	1.02	25.90	1.31	33.27	.88	22.35	.66	16.8
RL129 FBT_3/8 X 1/2	3/8	9.52	1/2	.28	7.11	1-1/16	27.0	1.13	28.70	1.42	36.07	1.12	28.45	.66	16.8
RL129 FBT_1/2 X 1/4	1/2	12.70	1/4	.41	10.41	13/16	20.6	1.02	25.90	1.42	36.07	.88	22.35	.90	22.9
RL129 FBT_1/2 X 3/8	1/2	12.70	3/8	.41	10.41	15/16	23.8	1.02	25.90	1.42	36.07	.88	22.35	.90	22.9
RL129 FBT_1/2 X 1/2	1/2	12.70	1/2	.41	10.41	1-1/16	27.0	1.13	28.70	1.53	38.86	1.12	28.45	.90	22.9
RL129 FBT_5/8 X 1/2	5/8	15.87	1/2	.50	12.70	1-1/16	27.0	1.13	28.70	1.53	38.86	1.12	28.44	.96	24.4
RL129 FBT_3/4 X 3/4	3/4	19.05	3/4	.62	15.74	1-3/8	34.9	1.36	34.50	1.76	44.70	1.25	31.75	.96	24.4
RL129 FBT_1 X 3/4	1	25.4	3/4	.88	22.35	1-3/8	34.9	1.45	36.83	1.93	49.02	1.25	31.75	1.23	31.2
RL129 FBT_1 X 1	1	25.4	1	.88	22.35	1-11/16	42.9	1.63	41.40	2.11	53.60	1.50	38.10	1.23	31.2



RL 130 MBT MALE BRANCH TEE



TUBE (METRIC) TO MALE NPT THREAD

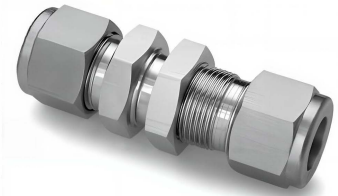
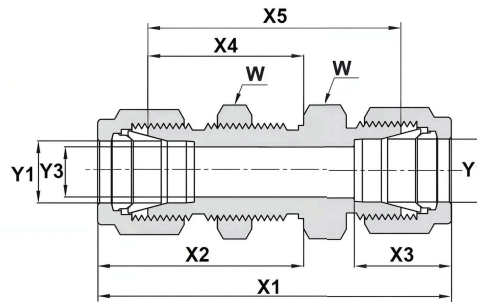
Ordering Information	Y1 Tube O.D. mm	X1 (NPT) inch	Y3 (min.) mm	W Wrench Flat		X3 mm	X4 mm	Y2 mm	X2 mm
				inch	mm				
RL130 MBT _6 X 1/8	6	1/8	4.8	1/2	12.7	19.6	27.0	18.8	15.3
RL130 MBT _6 X 1/4	6	1/4	4.8	1/2	12.7	19.6	27.0	23.4	15.3
RL130 MBT _8 X 1/8	8	1/8	4.8	5/8	15.9	22.4	29.9	20.8	16.2
RL130 MBT _8 X 1/4	8	1/4	6.4	5/8	15.9	22.4	29.9	25.4	16.2
RL130 MBT _10 X 1/4	10	1/4	7.1	13/16	20.6	25.9	33.5	28.2	17.2
RL130 MBT _12 X 1/4	12	1/4	7.1	13/16	20.6	25.9	36.0	28.2	22.8
RL130 MBT _12 X 3/8	12	3/8	9.5	13/16	20.6	25.9	36.0	28.2	22.8
RL130 MBT _12 X 1/2	12	1/2	9.5	13/16	20.6	25.9	36.0	33.0	22.8
RL130 MBT _16 X 1/2	16	1/2	11.9	15/16	23.8	28.7	38.8	35.8	24.4

TUBE (INCH) TO MALE NPT THREAD

Ordering Information	Y1 Tube O.D.		X1 (NPT) inch	Y3 (min.)		W Wrench Flat		X3		X4		Y2		X2	
	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL130 MBT _1/8 X 1/8	1/8	3.17	1/8	.09	2.28	7/16	11.1	.67	17.02	.93	23.62	.70	17.78	.50	12.7
RL130 MBT _1/8 X 1/4	1/8	3.17	1/4	.09	2.28	1/2	12.7	.71	18.03	.97	24.64	.92	23.37	.50	12.7
RL130 MBT _3/16 X 1/8	3/16	4.76	1/8	.12	3.04	7/16	11.1	.70	17.78	.96	24.38	.70	17.78	.54	13.7
RL130 MBT _1/4 X 1/8	1/4	6.35	1/8	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.74	18.80	.60	15.2
RL130 MBT _1/4 X 1/4	1/4	6.35	1/4	.19	4.82	1/2	12.7	.77	19.56	1.06	26.92	.92	23.37	.60	15.2
RL130 MBT _5/16 X 1/8	5/16	7.93	1/8	.19	4.82	5/8	15.9	.88	22.35	1.17	29.71	.82	20.83	.64	16.2
RL130 MBT _3/8 X 1/4	3/8	9.52	1/4	.28	7.11	5/8	15.9	.91	23.11	1.20	30.48	1.00	25.40	.66	16.8
RL130 MBT _3/8 X 3/8	3/8	9.52	3/8	.28	7.11	13/16	20.6	1.02	25.91	1.31	33.27	1.11	28.19	.66	16.8
RL130 MBT _1/2 X 3/8	1/2	12.70	3/8	.38	9.65	13/16	20.6	1.02	25.91	1.42	36.07	1.11	28.19	.90	22.9
RL130 MBT _1/2 X 1/2	1/2	12.70	1/2	.41	10.41	13/16	20.6	1.02	25.91	1.42	36.07	1.30	33.02	.90	22.9
RL130 MBT _5/8 X 1/2	5/8	15.87	1/2	.47	11.94	15/16	23.8	1.13	28.7	1.53	38.86	1.41	35.81	.96	24.4
RL130 MBT _3/4 X 3/4	3/4	19.05	3/4	.62	15.75	1-1/16	27.0	1.17	29.72	1.57	39.88	1.45	36.83	.96	24.4



RL 131 UB BULKHEAD UNION



TUBE (METRIC) TO TUBE (METRIC)

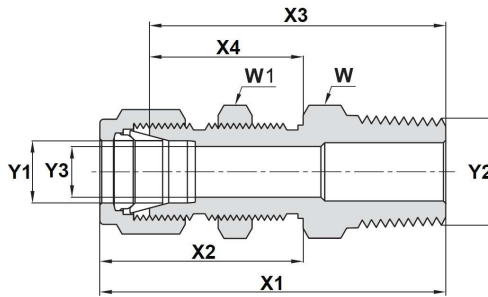
Ordering Information	Y1 Tube O.D. mm	Y3 (min.) mm	W Hex. Flat mm	X5 mm	X4 mm	X1 mm	X2 mm	X3 mm	Panel Hole Drill Size mm	Max. Panel thickness mm
RL131 UB _3	3	2.4	14	38.1	24.6	51.3	31.2	12.9	8.30	12.7
RL131 UB _4	4	2.4	14	40.4	25.4	53.6	32.0	13.7	9.90	12.7
RL131 UB _6	6	4.8	16	42.9	26.2	57.7	33.6	15.3	11.50	10.2
RL131 UB _8	8	6.4	18	46.0	28.6	61.0	36.1	16.2	13.10	11.2
RL131 UB _10	10	7.9	22	48.5	29.4	63.7	37.0	17.2	16.25	11.2
RL131 UB _12	12	9.5	24	50.8	31.8	71.0	41.9	22.8	19.50	12.7
RL131 UB _14	14	11.0	27	52.3	32.5	72.5	42.6	24.4	22.80	12.7
RL131 UB _15	15	11.9	27	52.3	32.5	72.5	42.6	24.4	22.80	12.7
RL131 UB _16	16	12.7	27	52.3	32.5	72.5	42.6	24.4	22.80	12.7
RL131 UB _18	18	15.1	30	58.7	37.3	78.9	47.4	24.4	26.00	16.8
RL131 UB _20	20	15.9	35	64.3	42.9	84.5	53.0	26.0	29.00	19.0
RL131 UB _25	25	21.8	41	71.4	45.2	96.0	57.5	31.3	33.70	19.0
RL131 UB _30	30	26.2	50	80.5	48.6	123.7	70.2	39.6	40.5	19
RL131 UB _32	32	28.6	50	82.3	49.5	128.3	72.5	42	42.5	19
RL131 UB _38	38	33.7	60	89.8	51.9	145.0	79.5	49.4	50.50	19.0

TUBE (INCH) TO TUBE (INCH)

Ordering Information	Y1 Tube O.D.		Y3 (min.)		W Hex. Flat inch	X5		X4		X1		X2		X3		Panel Hole Drill Size		Max. Panel thickness	
	inch	mm	inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL131 UB _1/16	1/16	1.58	.05	1.27	5/16	.94	23.88	.53	13.46	1.24	31.5	.68	17.3	.34	8.6	13/64	5.16	.12	3.05
RL131 UB _1/8	1/8	3.17	.09	2.28	1/2	1.50	38.10	.97	24.63	2.02	51.30	1.23	31.24	.50	12.7	21/64	8.33	.50	12.70
RL131 UB _3/16	3/16	4.76	.12	3.04	9/16	1.59	40.38	1.00	25.40	2.11	53.59	1.26	32.00	.54	13.7	25/64	9.92	.50	12.70
RL131 UB _1/4	1/4	6.35	.19	4.82	5/8	1.69	42.92	1.03	26.16	2.27	57.65	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
RL131 UB _5/16	5/16	7.93	.25	6.35	11/16	1.81	45.97	1.12	28.44	2.39	60.70	1.41	35.81	.64	16.2	33/64	13.09	.44	11.17
RL131 UB _3/8	3/8	9.52	.28	7.11	3/4	1.87	47.5	1.16	29.46	2.45	62.2	1.45	36.83	.66	16.8	37/64	14.68	.44	11.17
RL131 UB _1/2	1/2	12.70	.41	10.41	15/16	2.00	50.80	1.25	31.75	2.80	71.12	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70
RL131 UB _5/8	5/8	15.87	.50	12.70	1-1/16	2.06	52.32	1.28	32.51	2.86	72.64	1.68	42.67	.96	24.4	57/64	22.62	.50	12.70
RL131 UB _3/4	3/4	19.05	.62	15.75	1-3/16	2.31	58.67	1.47	37.33	3.11	78.99	1.87	47.49	.96	24.4	11/64	25.79	.66	16.76
RL131 UB _1	1	25.40	.88	22.35	1-5/8	2.81	71.37	1.78	45.21	3.77	95.76	2.26	57.40	1.23	31.2	1 21/64	33.73	.75	19.05
RL131 UB _1-1/4	1-1/4	31.75	1.09	27.70	1-7/8	3.11	79.00	1.88	47.75	4.85	123.19	2.75	69.85	1.62	41.2	141/64	41.67	.75	19.05
RL131 UB _1-1/2	1-1/2	38.10	1.34	34.00	2-1/4	3.34	84.80	1.94	49.28	5.48	139.19	3.01	76.45	1.97	50.0	161/64	49.61	.75	19.05
RL131 UB _2	2	50.80	1.81	45.97	2-3/4	4.16	105.66	2.22	56.39	7.10	180.34	3.69	93.73	2.66	67.6	241/64	67.07	.75	19.05



RL 132 CBM BULKHEAD MALE CONNECTOR



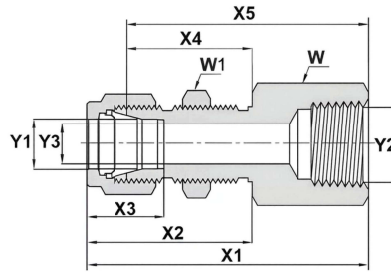
TUBE (METRIC) TO MALE NPT THREAD

Ordering Information	Y1 Tube O.D. mm	Y2 (NPT) inch	Y3 (min.) mm	W Hex. Flat mm	W1 Hex. Flat mm	X3 mm	X4 mm	X1 mm	X2 mm	Panel Hole Drill Size mm	Max. Panel Thickness mm
RL132 CBM_6 X 1/8	6	1/8	4.8	16	16	42.2	26.2	49.6	33.6	11.5	10.2
RL132 CBM_6 X 1/4	6	1/4	4.8	16	16	46.2	26.2	53.6	33.6	11.5	10.2
RL132 CBM_12 X 1/2	12	1/2	9.5	24	24	58.7	31.8	68.8	41.9	19.5	12.7

TUBE (INCH) TO MALE NPT THREAD

Ordering Information	Y1 Tube O.D.		Y2 (NPT)	Y3 (min.)		W Hex. Flat	W1 Hex. Flat	X3		X4		X1		X2		Panel Hole Drill Size		Max. Panel Thickness	
	inch	mm		inch	mm			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL132 CBM_1/8 X 1/8	1/8	3.17	1/8	.09	2.28	1/2	1/2	1.57	39.90	.97	24.60	1.83	46.48	1.23	31.24	21/64	8.33	.50	12.70
RL132 CBM_1/4 X 1/8	1/4	6.35	1/8	.19	4.82	5/8	5/8	1.66	42.20	1.03	26.20	1.95	49.53	1.32	33.52	29/64	11.50	.40	10.16
RL132 CBM_1/4 X 1/4	1/4	6.35	1/4	.19	4.82	5/8	5/8	1.84	46.70	1.03	26.16	2.13	54.10	1.32	33.52	29/64	11.50	.40	10.16
RL132 CBM_3/8 X 1/4	3/8	9.52	1/4	.28	7.11	3/4	3/4	1.97	50.00	1.16	29.46	2.26	57.40	1.45	36.83	37/64	14.68	.44	11.17
RL132 CBM_3/8 X 3/8	3/8	9.52	3/8	.28	7.11	3/4	3/4	1.97	50.04	1.16	29.46	2.26	57.40	1.45	36.83	37/64	14.68	.44	11.17
RL132 CBM_3/8 X 1/2	3/8	9.52	1/2	.28	7.11	7/8	3/4	2.22	56.39	1.16	29.46	2.51	63.75	1.45	36.83	37/64	14.68	.44	11.17
RL132 CBM_1/2 X 3/8	1/2	12.70	3/8	.40	10.40	15/16	15/16	2.09	53.10	1.25	31.75	2.49	83.25	1.65	41.91	49/64	19.44	.50	12.70
RL132 CBM_1/2 X 1/2	1/2	12.70	1/2	.40	10.40	15/16	15/16	2.31	58.70	1.25	31.70	2.71	68.83	1.65	41.91	49/64	19.44	.50	12.70
RL132 CBM_3/4 X 3/4	3/4	19.05	3/4	.62	15.74	1-3/16	1-3/16	2.60	66.04	1.47	37.33	3.00	76.20	1.87	47.49	11/64	25.79	.66	16.76
RL132 CBM_1 X 1	1	25.4	1	.88	22.35	1-5/8	1-5/8	3.19	81.02	1.78	45.21	3.67	93.21	2.26	57.40	121/64	33.73	.75	19.05

RL 133 CBF BULKHEAD FEMALE CONNECTOR



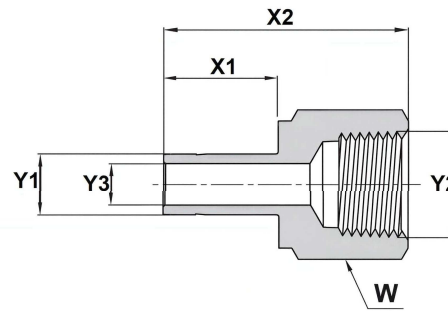
TUBE (METRIC) TO FEMALE NPT THREAD

Ordering Information	Y1 Tube O.D. Mm	Y2 (NPT) inch	Y3 (min.) mm	W Hex.Flat mm	W1 Hex.Flat mm	X5 mm	X4 mm	X1 mm	X2 mm	X3 mm	Panel Hole Drill Size mm	Max. Panel thickness mm
RL133 CBF_6 X 1/4	6	1/4	4.8	19	16	44.4	26.2	51.8	33.6	15.3	11.5	10.2
RL133 CBF_12 X 1/2	12	1/2	9.5	27	24	56.4	31.8	66.5	41.9	22.8	19.5	12.7

TUBE (INCH) TO FEMALE NPT THREAD

Ordering Information	Y1 Tube O.D.		Y2 (NPT)	Y3 (min.)		W Hex. Flat	W1 Hex. Flat	X5		X4		X1		X2		X3		Panel Hole Drill Size		Max. Panel thickness	
	inch	mm		inch	mm			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
RL133 CBF_1/8 X 1/8	1/8	3.17	1/8	.09	2.28	9/16	1/2	1.50	38.10	.97	24.63	1.76	44.70	1.23	31.24	.50	12.7	21/64	8.33	.50	12.70
RL133 CBF_1/4 X 1/8	1/4	6.35	1/8	.19	4.82	5/8	5/8	1.56	39.62	1.03	26.16	1.85	46.99	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
RL133 CBF_1/4 X 1/4	1/4	6.35	1/4	.19	4.82	3/4	5/8	1.75	44.45	1.03	26.16	2.04	51.81	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
RL133 CBF_3/8 X 1/4	3/8	9.52	1/4	.28	7.11	3/4	3/4	1.88	47.75	1.16	29.46	2.17	55.11	1.45	36.83	.66	16.8	37/64	14.68	.44	11.17
RL133 CBF_1/2 X 3/8	1/2	12.70	3/8	.41	10.41	15/16	15/16	2.03	51.56	1.25	31.75	2.43	61.72	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70
RL133 CBF_1/2 X 1/2	1/2	12.70	1/2	.41	10.41	1-1/16	15/16	2.22	56.38	1.25	31.75	2.62	66.54	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70

RL 138 FA FEMALE ADAPTER TUBE TO PIPE

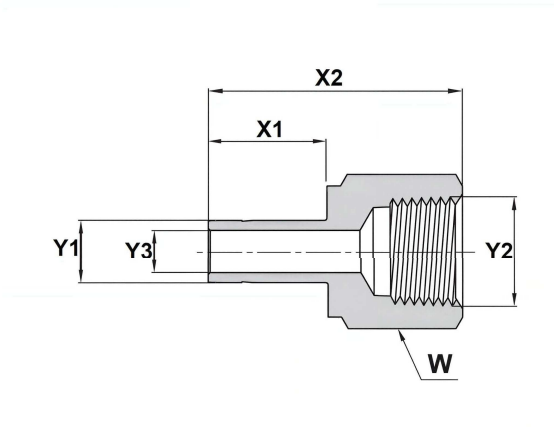


TUBE (METRIC) FEMALE PIPE

Ordering Information	Y1 Tube O.D. mm	Y2 (NPT) inch	Y3 (min.) mm	W Hex. Flat mm	X1 mm	X2 mm
RL138 FA _3 X 1/8	3	1/8	2.1	14	13.5	31.5
RL138 FA _3 X 1/4	3	1/4	2.1	19	13.5	35.3
RL138 FA _4 X 1/4	4	1/4	2.2	19	14.2	35.0
RL138 FA _6 X 1/8	6	1/8	4.0	14	15.7	32.5
RL138 FA _6 X 1/4	6	1/4	4.0	19	15.7	37.1
RL138 FA _6 X 3/8	6	3/8	4.0	22	15.7	39.6
RL138 FA _6 X 1/2	6	1/2	4.0	27	15.7	45.5
RL138 FA _8 X 1/8	8	1/8	5.6	14	16.8	34.3
RL138 FA _8 X 1/4	8	1/4	5.6	19	16.8	37.6
RL138 FA _8 X 1/2	8	1/2	5.6	27	16.8	46.0
RL138 FA _10 X 1/4	10	1/4	7.1	19	17.5	38.1
RL138 FA _10 X 3/8	10	3/8	7.1	22	17.5	40.1
RL138 FA _10 X 1/2	10	1/2	7.1	27	17.5	46.5
RL138 FA _12 X 1/4	12	1/4	8.8	19	23.1	43.4
RL138 FA _12 X 3/8	12	3/8	8.8	22	23.1	45.5
RL138 FA _12 X 1/2	12	1/2	8.8	27	23.1	52.3
RL138 FA _16 X 3/8	16	3/8	12.7	24	24.7	48.0
RL138 FA _16 X 1/2	16	1/2	12.7	27	24.7	53.1
RL138 FA _20 X 1/2	20	1/2	15.1	27	26.6	56.0
RL138 FA _20 X 3/4	20	3/4	15.1	35	26.6	56.0



RL 138 FA
FEMALE ADAPTER
TUBE TO PIPE (Continued)

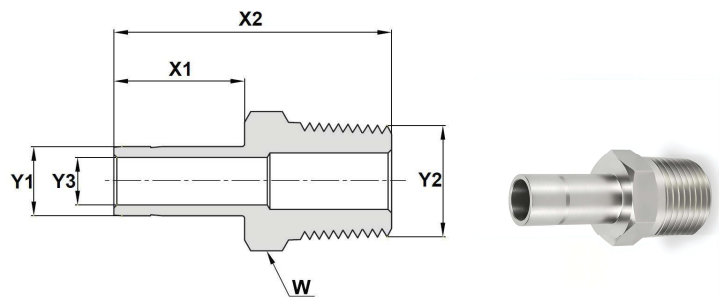


TUBE (INCH) FEMALE PIPE

Ordering Information	Y1 Tube O.D.		Y2 (NPT) inch	Y3 (min.)		W Hex. Flat inch	X1		X2	
	inch	mm		inch	mm		inch	mm	inch	mm
RL138 FA _ 1/8 X 1/8	1/8	3.17	1/8	.08	2.0	9/16	.53	13.45	1.24	31.5
RL138 FA _ 1/8 X 1/4	1/8	3.17	1/4	.08	2.0	3/4	.53	13.45	1.39	35.3
RL138 FA _ 3/16 X 1/4	3/16	4.76	1/4	.12	3.0	3/4	.56	14.20	1.41	35.8
RL138 FA _ 1/4 X 1/8	1/4	6.35	1/8	.17	4.2	9/16	.62	15.75	1.30	33.0
RL138 FA _ 1/4 X 1/4	1/4	6.35	1/4	.17	4.2	3/4	.62	15.75	1.46	37.1
RL138 FA _ 1/4 X 3/8	1/4	6.35	3/8	.17	4.2	7/8	.62	15.75	1.55	39.4
RL138 FA _ 1/4 X 1/2	1/4	6.35	1/2	.17	4.2	1-1/16	.62	15.75	1.79	45.5
RL138 FA _ 5/16 X 1/4	5/16	7.93	1/4	.22	5.6	3/4	.66	16.75	1.48	37.6
RL138 FA _ 3/8 X 1/8	3/8	9.52	1/8	.27	6.9	9/16	.69	17.50	1.35	34.3
RL138 FA _ 3/8 X 1/4	3/8	9.52	1/4	.27	6.9	3/4	.69	17.50	1.50	38.1
RL138 FA _ 3/8 X 3/8	3/8	9.52	3/8	.27	6.9	7/8	.69	17.50	1.59	40.4
RL138 FA _ 3/8 X 1/2	3/8	9.52	1/2	.27	6.9	1-1/16	.69	17.50	1.84	46.7
RL138 FA _ 1/2 X 1/4	1/2	12.70	1/4	.37	9.4	3/4	.91	23.10	1.71	43.4
RL138 FA _ 1/2 X 3/8	1/2	12.70	3/8	.37	9.4	7/8	.91	23.10	1.79	45.5
RL138 FA _ 1/2 X 1/2	1/2	12.70	1/2	.37	9.4	1-1/16	.91	23.10	2.05	52.1
RL138 FA _ 5/8 X 1/2	5/8	15.87	1/2	.50	12.7	1-1/16	.97	24.65	2.09	53.1
RL138 FA _ 3/4 X 1/2	3/4	19.05	1/2	.59	15.0	1-1/16	.97	24.65	2.08	52.8
RL138 FA _ 3/4 X 3/4	3/4	19.05	3/4	.59	15.0	1-5/16	.97	24.65	2.16	54.9
RL138 FA _ 3/4 X 1	3/4	19.05	1	.59	15.0	1-5/8	.97	24.65	2.30	58.4
RL138 FA _ 1 X 3/4	1	25.40	3/4	.80	20.3	1-5/16	1.23	31.20	2.39	60.7
RL138 FA _ 1 X 1	1	25.40	1	.80	20.3	1-5/8	1.23	31.20	2.53	64.3
RL138 FA _ 1-1/4 X 1-1/4	1-1/4	31.75	1-1/4	1.02	25.9	2-1/8	1.73	43.82	3.06	77.7
RL138 FA _ 1-1/2 X 1-1/2	1-1/2	38.10	1-1/2	1.25	31.8	2-3/8	2.14	54.33	3.50	88.9



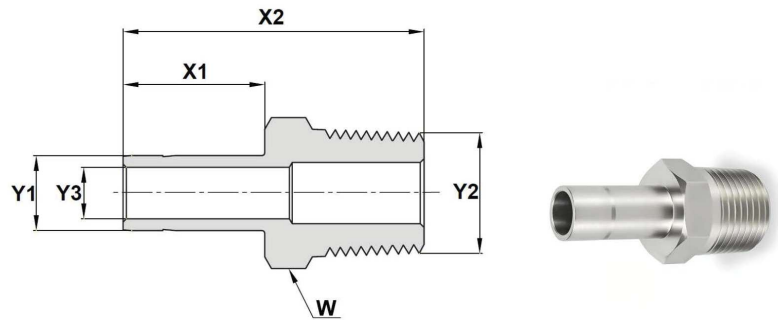
RL 139 MA **MALE ADAPTER** **TUBE TO PIPE**



TUBE (METRIC) MALE PIPE

Ordering Information	Y1 Tube O.D. mm	Y2 (NPT) inch	Y3 (min.) mm	W Hex. Flat mm	X1 mm	X2 mm
RL139 MA _ 3 X 1/8	3	1/8	2.1	12	13.5	30.0
RL139 MA _ 3 X 1/4	3	1/4	2.1	14	13.5	35.3
RL139 MA _ 6 X 1/8	6	1/8	4.0	12	15.7	32.8
RL139 MA _ 6 X 1/4	6	1/4	4.0	14	15.7	38.1
RL139 MA _ 6 X 3/8	6	3/8	4.0	18	15.7	37.0
RL139 MA _ 6 X 1/2	6	1/2	4.0	22	15.7	43.4
RL139 MA _ 8 X 1/8	8	1/8	4.8	12	16.8	33.5
RL139 MA _ 8 X 1/4	8	1/4	5.6	14	16.8	39.1
RL139 MA _ 8 X 3/8	8	3/8	5.6	11/16 Inch	16.8	37.8
RL139 MA _ 8 X 1/2	8	1/2	5.6	22	16.8	43.0
RL139 MA _ 10 X 1/4	10	1/4	7.1	9/16 Inch	17.5	39.9
RL139 MA _ 10 X 3/8	10	3/8	7.1	18	17.5	40.6
RL139 MA _ 10 X 1/2	10	1/2	7.1	22	17.5	46.2
RL139 MA _ 12 X 1/4	12	1/4	7.1	16	23.1	46.5
RL139 MA _ 12 X 3/8	12	3/8	8.8	18	23.1	46.5
RL139 MA _ 12 X 1/2	12	1/2	8.8	22	23.1	52.0
RL139 MA _ 16 X 1/2	16	1/2	11.9	22	24.7	50.5
RL139 MA _ 20 X 3/4	20	3/4	15.1	27	26.6	54.3

RL 139 MA **MALE ADAPTER** **TUBE TO PIPE (Continued)**

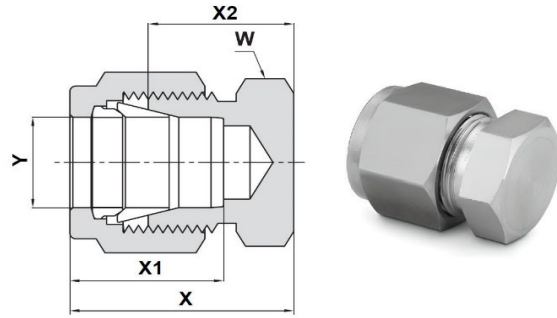


TUBE (INCH) MALE PIPE

Ordering Information	Y1 Tube O.D.		Y2 (NPT) inch	Y3 (min.)		W Hex. Flat inch	X1		X2	
	inch	mm		inch	mm		inch	mm	inch	mm
RL139 MA _ 1/8 X 1/8	1/8	3.17	1/8	.08	2.0	7/16	.53	13.45	1.16	29.5
RL139 MA _ 1/8 X 1/4	1/8	3.17	1/4	.08	2.0	9/16	.53	13.45	1.37	34.8
RL139 MA _ 3/16 X 1/8	3/16	4.76	1/8	.12	3.0	7/16	.56	14.20	1.19	30.2
RL139 MA _ 3/16 X 1/4	3/16	4.76	1/4	.12	3.0	9/16	.56	14.20	1.40	35.6
RL139 MA _ 1/4 X 1/8	1/4	6.35	1/8	.17	4.2	7/16	.62	15.75	1.25	31.8
RL139 MA _ 1/4 X 1/4	1/4	6.35	1/4	.17	4.2	9/16	.62	15.75	1.46	37.1
RL139 MA _ 1/4 X 3/8	1/4	6.35	3/8	.17	4.2	11/16	.62	15.75	1.49	37.9
RL139 MA _ 1/4 X 1/2	1/4	6.35	1/2	.17	4.2	7/8	.62	15.75	1.71	43.4
RL139 MA _ 5/16 X 1/8	5/16	7.93	1/8	.22	5.6	7/16	.66	16.75	1.29	32.7
RL139 MA _ 5/16 X 1/4	5/16	7.93	1/4	.22	5.6	9/16	.66	16.75	1.50	38.1
RL139 MA _ 3/8 X 1/8	3/8	9.52	1/8	.27	6.9	7/16	.69	17.50	1.32	33.5
RL139 MA _ 3/8 X 1/4	3/8	9.52	1/4	.27	6.9	9/16	.69	17.50	1.53	38.9
RL139 MA _ 3/8 X 3/8	3/8	9.52	3/8	.27	6.9	11/16	.69	17.50	1.56	39.6
RL139 MA _ 3/8 X 1/2	3/8	9.52	1/2	.27	6.9	7/8	.69	17.50	1.78	45.2
RL139 MA _ 1/2 X 1/4	1/2	12.70	1/4	.28	7.1	9/16	.91	23.10	1.75	44.5
RL139 MA _ 1/2 X 3/8	1/2	12.70	3/8	.37	9.4	11/16	.91	23.10	1.78	45.2
RL139 MA _ 1/2 X 1/2	1/2	12.70	1/2	.37	9.4	7/8	.91	23.10	2.0	50.8
RL139 MA _ 5/8 X 3/8	5/8	15.87	3/8	.37	9.5	11/16	.97	24.65	1.81	47.6
RL139 MA _ 5/8 X 1/2	5/8	15.87	1/2	.47	11.9	7/8	.97	24.65	2.06	52.3
RL139 MA _ 5/8 X 3/4	5/8	15.87	3/4	.50	12.7	1-1/16	.97	24.65	2.06	52.3
RL139 MA _ 3/4 X 1/2	3/4	19.05	1/2	.47	11.9	7/8	.97	24.65	2.06	52.3
RL139 MA _ 3/4 X 3/4	3/4	19.05	3/4	.59	15.0	1-1/16	.97	24.65	2.06	52.3
RL139 MA _ 3/4 X 1	3/4	19.05	1	.59	15.0	1-3/8	.97	24.65	2.28	57.3
RL139 MA _ 7/8 X 3/4	7/8	22.22	3/4	.60	15.9	1-1/16	1.05	26.60	2.09	54.3
RL139 MA _ 1 X 3/4	1	25.40	3/4	.60	15.8	1-1/16	1.30	33.00	2.31	58.7
RL139 MA _ 1 X 1	1	25.40	1	.80	20.3	1-3/8	1.30	33.00	2.60	66.0
RL139 MA _ 1-1/4 X 1-1/4	1-1/4	31.75	1-1/4	1.02	25.9	1-3/4	1.73	43.82	3.16	80.3
RL139 MA _ 1-1/2 X 1-1/2	1-1/2	38.10	1-1/2	1.25	31.6	2-1/8	2.14	54.33	3.72	94.5



RL 141 C CAP



CAP END OF TUBE (METRIC)

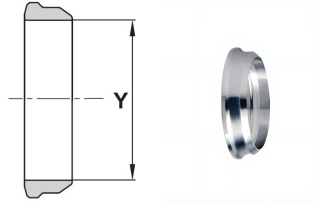
Ordering Information	Y (min.) Tube O.D. mm	W Hex. Flat mm	X2 mm	X mm	X1 mm
RL 141C_2	2	12	13.5	20.1	12.9
RL 141C_3	3	12	13.5	20.1	12.9
RL 141C_4	4	12	14.7	21.3	13.7
RL 141C_6	6	14	15.7	23.1	15.3
RL 141C_8	8	15	17.0	24.5	16.2
RL 141C_10	10	18	19.0	26.6	17.2
RL 141C_12	12	22	19.0	29.1	22.8
RL 141C_14	14	24	19.8	29.9	24.4
RL 141C_15	15	24	19.8	29.9	24.4
RL 141C_16	16	24	19.8	29.9	24.4
RL 141C_18	18	27	21.3	31.4	24.4
RL 141C_20	20	30	23.9	34.0	26.0
RL 141C_22	22	30	23.9	34.0	26.0
RL 141C_25	25	35	26.2	38.5	31.3
RL 141C_38	38	55	37.8	65.4	49.4

CAP END OF TUBE (INCH)

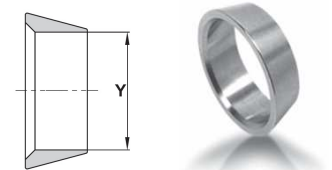
Ordering Information	Y (min.) Tube O.D.		W Hex Flat	X2		X		X1	
	mm	inch		inch	mm	inch	mm	inch	mm
RL 141C_1/16	1/16	1.58	5/16	0.44	11.17	0.59	14.98	0.34	8.6
RL 141C_1/8	1/8	3.17	7/16	0.53	13.46	0.79	20.06	0.50	12.7
RL 141C_3/16	3/16	4.76	7/16	0.58	14.73	0.84	21.84	0.54	13.7
RL 141C_1/4	1/4	6.35	1/2	0.63	16.00	0.92	23.37	0.60	15.2
RL 141C_5/16	5/16	7.93	9/16	0.67	17.01	0.96	24.38	0.64	16.2
RL 141C_3/8	3/8	9.52	5/8	0.72	18.28	1.01	26.65	0.66	16.8
RL 141C_1/2	1/2	12.70	13/16	0.75	19.05	1.15	29.21	0.90	22.9
RL 141C_5/8	5/8	15.87	15/16	0.78	19.81	1.18	29.97	0.96	24.4
RL 141C_3/4	3/4	19.05	1 1/16	0.84	21.33	1.24	31.49	0.96	24.4
RL 141C_7/8	7/8	22.22	1 3/16	0.94	23.88	1.34	34.04	1.02	25.9
RL 141C_1	1	25.40	1 3/8	1.03	26.16	1.51	38.35	1.23	31.2
RL 141C_1 1/4	1 1/4	31.75	1 3/4	1.23	31.24	2.10	53.34	1.62	41.2
RL 141C_1 1/2	1 1/2	38.10	2 1/8	1.47	37.33	2.54	64.52	1.97	50.0
RL 141C_2	2	50.80	2 3/4	1.94	49.28	3.41	86.61	2.66	67.6



RL 110 BF BACK FERRULE



RL 110 FF FRONT FERRULE



Metric

Ordering Information	Y Tube O.D.
	mm
RL110 BF_2	2
RL110 BF_3	3
RL110 BF_4	4
RL110 BF_6	6
RL110 BF_8	8
RL110 BF_10	10
RL110 BF_12	12
RL110 BF_14	14
RL110 BF_15	15
RL110 BF_16	16
RL110 BF_18	18
RL110 BF_20	20
RL110 BF_22	22
RL110 BF_25	25
RL110 BF_38	38
RL110 BF_50	50

Inch

Ordering Information	Y Tube O.D.	
	inch	mm
RL110 BF_1/16	1/16	1.58
RL110 BF_1/8	1/8	3.17
RL110 BF_3/16	3/16	4.76
RL110 BF_1/4	1/4	6.35
RL110 BF_5/16	5/16	7.93
RL110 BF_3/8	3/8	9.52
RL110 BF_1/2	1/2	12.70
RL110 BF_5/8	5/8	15.87
RL110 BF_3/4	3/4	19.05
RL110 BF_7/8	7/8	22.22
RL110 BF_1	1	25.40
RL110 BF_1-1/4	1-1/4	31.75
RL110 BF_1-1/2	1-1/2	38.10
RL110 BF_2	2	50.80

Metric

Ordering Information	Y Tube O.D.
	mm
RL110 FF_2	2
RL110 FF_3	3
RL110 FF_4	4
RL110 FF_6	6
RL110 FF_8	8
RL110 FF_10	10
RL110 FF_12	12
RL110 FF_14	14
RL110 FF_15	15
RL110 FF_16	16
RL110 FF_18	18
RL110 FF_20	20
RL110 FF_22	22
RL110 FF_25	25
RL110 FF_38	38
RL110 FF_50	50

Inch

Ordering Information	Y Tube O.D.	
	inch	mm
RL110 FF_1/16	1/16	1.58
RL110 FF_1/8	1/8	3.17
RL110 FF_3/16	3/16	4.76
RL110 FF_1/4	1/4	6.35
RL110 FF_5/16	5/16	7.93
RL110 FF_3/8	3/8	9.52
RL110 FF_1/2	1/2	12.70
RL110 FF_5/8	5/8	15.87
RL110 FF_3/4	3/4	19.05
RL110 FF_7/8	7/8	22.22
RL110 FF_1	1	25.40
RL110 FF_1-1/4	1-1/4	31.75
RL110 FF_1-1/2	1-1/2	38.10
RL110 FF_2	2	50.80



Ferrule Set (FS)

All **Rek-Lok®** Ferrules are available as sets. Without Ferrule bar.



Ferrule Set with Nus (FSN)

All **Rek-Lok®** Ferrule and nut are available as sets. Without Ferrule bar.

Ferrule set ordering information:

RL 110	P1	-	P2
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P1: Ferrule Set Type

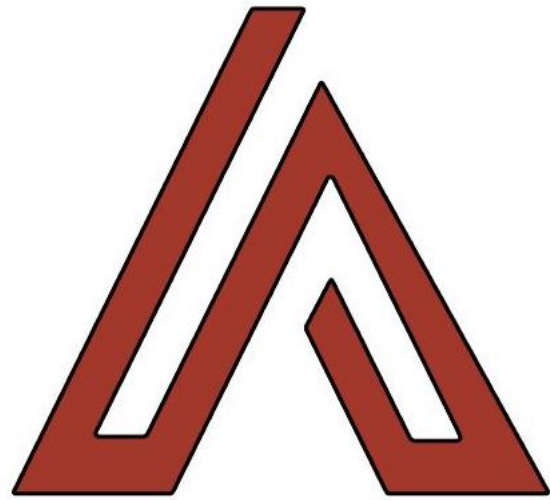
P2: Tube OD

Example:

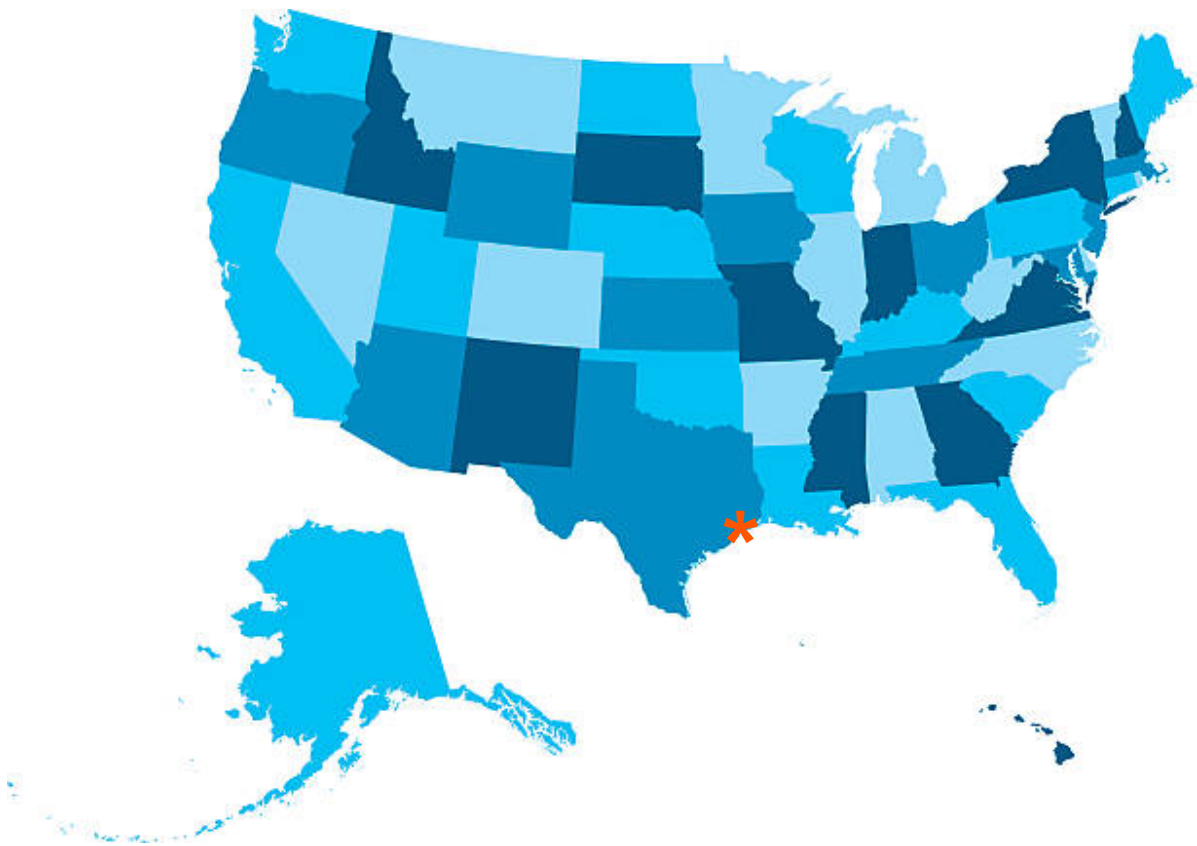
RL 110 FS-1/4

Ferrule Set Type: (P1)

- Ferrule Set- FS
- Ferrule Set with Nut- FSN



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