

Bulletin 1001

SS Rotary Joints For Steam





EULER MISSION STATEMENT

The goal of the EULER Company is to supply our customers the highest quality rotary unions and joints that are competitively priced and offer the best delivery in the industry. EULER will work to partner with our customers to initiate new products and applications, along with internal programs for continuous product improvements and cost containment.







The **EULER SS Steam Rotary Joint** is a flexible design offered in monoflow, duoflow fixed pipe and duoflow rotating pipe models. This Joint offers superior performance for industries such as plastics, rubber, paper, roofing products, textile, to name just a few.



Design Features

- Antimony Impregnated Seals and Bushings provide 3X the life of standard seals and bearings.
- Hardened sleeve is QPQ treated for extreme wear and corrosion resistance.
- Convex seal is self-aligning and under compression for greater strength and shock resistance.
- Antimony Impregnated Carbon Bushings are under compression and widely spaced.
 Provides improved support of the joint and siphon pipe.
- A Seal Life Indicator allows preventive maintenance and easy repair with an inexpensive repair kit.
- Additional port allows installing instrumentation

Sizes 1/2" to 3"

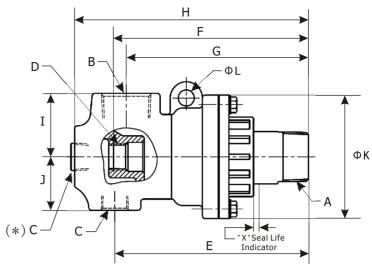
Operating Parameters

Temperature:	+406°F/+ 208°C
Pressure Rating:	
Sizes 1/2" to 1-1/2"	250 PSI / 17.2 BAR
Sizes 2" to 3"	225 PSI / 15.5 BAR



DUO-FLOW Fixed Siphon





 $(\ensuremath{\ensuremath{\$}}) \ensuremath{\ensuremath{\mbox{ Sealed plug can be removed for instrumentation}}$

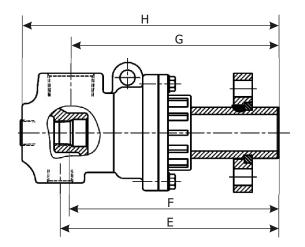
			(*) Sealed	piug cuii be	Temoved ie	71 111361 41	nematio							
Joint Size	Part Number	А	В	С	D Siphon Thread	E	F	G	Н	ı	J	ФК	Φι	"X"
	EU-20008-00-00	1/2" NPT RH	1 /2" NIDT	1 /4" NDT	1 /0" NDT	E 42"	г 12"	4.6"	r 02"	1 (2"	1 10"	2 20"		.19"
1 /2 !!	EU-20008-01-00	1/2" NPT LH	1/2" NPT	1/4" NPT	1/8" NPT	5.43"	5.12"	4.6"	5.93"	1.62"	1.16"	3.29"	-	.19
1/2"	EU-20008-04-03	R 1/2" RH	D 1 /2!!	D 1 /4"	D 1 /0"	127.0	120.0	116.0	150.6	41.15	20.46	02.6		4.0
	EU-20008-05-03	R 1/2" LH	R 1/2"	R 1/4"	R 1/8"	137.9	130.0	116.8	150.6	41.15	29.46	83.6	I	4.8
	EU-20012-00-00	3/4" NPT RH	3/4" NPT	1/2" NPT	1/4" NPT	5.22"	5.31"	4.6"	6.23"	1.75"	1.25"	3.54"		.19"
3/4"	EU-20012-01-00	3/4" NPT LH	3/4 NPT	1/2 NP1	1/4 NPT	5.22	5.31	4.0	0.23	1./5	1.25	3.54	I	.19
3/4	EU-20012-04-03	R 3/4" RH	D 2 /4"	D 1 /2"	D 1 /4"	122.0	124.0	1100	150 2	44.45	21 75	00.0		4.0
	EU-20012-05-03	R 3/4" LH	R 3/4"	R 1/2"	R 1/4"	132.6	134.9	116.8	158.2	44.45	31.75	89.9	1	4.8
	EU-20016-00-00	1" NPT RH	1" NPT	1/2" NPT	3/8" NPT	6.02"	6.1"	5.27"	7.07"	2.06"	1.25"	3.88"	.50"	.25"
1"	EU-20016-01-00	1" NPT LH	1 NPI	1/2 NP1	3/8 NP1	6.02	0.1	5.27	7.07	2.06	1.25	3.88	.50	.25
1"	EU-20016-04-03	R 1" RH	D 4 II	D 1 /2	D 2 /0"	152.0	1540	122.0	170.6	F2 22	24.75	00.55	12.7	C 4
	EU-20016-05-03	R 1" LH	R 1"	R 1/2"	R 3/8"	152.9	154.9	133.9	179.6	52.32	31.75	98.55	12.7	6.4
	EU-20020-00-00	1-1/4" NPT RH	4.4/4!! NIDT	2 /4" NDT	4 /2" NDT	7.05"	7 24 !!	6.741	0.661	2.40"	4.70"	4.76"	62"	25"
4 4 / 4 !!	EU-20020-01-00	1-1/4" NPT LH	1-1/4" NPT	3/4" NPT	1/2" NPT	7.05"	7.31"	6.74"	8.66"	2.19"	1.78"	4.76"	.62"	.25"
1-1/4"	EU-20020-04-03	R 1-1/4" RH	D 4 4 /4 !!	D 2 /4!!	D 4 /2 !!	170.1	405.7	474.2	220.0	FF 63	45.24	120.0	45.7	6.4
	EU-20020-05-03	R 1-1/4" LH	R 1-1/4"	R 3/4"	R 1/2"	179.1	185.7	171.2	220.0	55.62	45.21	120.9	15.7	6.4
	EU-20024-00-00	1-1/2" NPT RH	1 1 /2 NIDT	2 /4" NDT	2 /4" NDT	7.541	7.50!	7 1 11	0.00"	2.44!	2.06"	4.05"	C2!!	25"
4.4./2.11	EU-20024-01-00	1-1/2" NPT LH	1-1/2" NPT	3/4" NPT	3/4" NPT	7.54"	7.59"	7.1"	9.09"	2.44"	2.06"	4.95"	.62"	.25"
1-1/2"	EU-20024-04-03	R 1-1/2" RH	D 1 1/2	D 2 /4!!	D 2 /4!!	101.5	102.0	100.2	220.0	C1 00	F2 22	125.7	15.7	C 4
	EU-20024-05-03	R 1-1/2" LH	R 1-1/2"	R 3/4"	R 3/4"	191.5	192.8	180.3	230.9	61.98	52.32	125.7	15.7	6.4
	EU-20032-00-00	2" NPT RH	2 II NIDT	4.4./4!! NIDT	2 /4" NDT	0.60	0.60	0.42"	10.60	2.75"	2.56"	6.20"	62"	24"
2"	EU-20032-01-00	2" NPT LH	2"NPT	1-1/4" NPT	3/4" NPT	8.68"	8.68"	8.12"	10.69	2.75"	2.56"	6.28"	.62"	.31"
2"	EU-20032-04-03	R 2" RH	D 211	D 1 1 / 4 II	D 2 /4 !!	220.5	220.5	206.2	271 5	CO 05	CF 02	150.5	15.7	7.0
	EU-20032-05-03	R 2"LH	R 2"	R 1-1/4"	R 3/4"	220.5	220.5	206.2	271.5	69.85	65.02	159.5	15.7	7.9
	EU-20040-00-00	2-1/2" NPT RH	2 1/2" NDT	1 1 /4" NDT	1" NDT	10.2"	10.2"	0.02"	12 [1"	2.0"	2 50"	7.15"	75"	.25"
2 4 /2 !!	EU-20040-01-00	2-1/2" NPT LH	2-1/2" NPT	1-1/4" NPT	1" NPT	10.2"	10.3"	9.82"	12.51"	3.0"	2.50"	7.15	.75"	.25
2-1/2"	EU-20040-04-03	R 2-1/2" RH	D 2 1 /2	D 1 1 / 4 II	D 4 II	250.4	261.6	240.4	217.0	76.20	62.50	101.6	10.1	C 4
	EU-20040-05-03	R 2-1/2" LH	R 2-1/2"	R 1-1/4"	R 1"	259.1	261.6	249.4	317.8	76.20	63.50	181.6	19.1	6.4
	EU-20048-00-00	3" NPT RH	דחוא "כ	1 1/2" NDT	1 1/2" NDT	10.02"	11 00"	10 72"	12 1"	2 (2"	2 00"	8.08"	.94"	.25"
3"	EU-20048-01-00	3" NPT LH	3" NPT	1-1/2" NPT	1-1/2" NPT	10.92"	11.09"	10.73"	13.1"	3.62"	2.88"	8.08"	.94"	.25"
3"	EU-20048-04-03	R 3" RH	D 2.11	D 4 4 /2"	D 4 4 /2"	277.4	201 7	272.5	222.7	01.05	72.45	205.2	22.0	
	EU-20048-05-03	R 3" LH	R 3"	R 1-1/2"	R 1-1/2"	277.4	281.7	272.5	332.7	91.95	73.15	205.2	23.9	6.4
Other clas	eve connections ava	ailable Contact Fi	ulor											

Other sleeve connections available. Contact Euler.

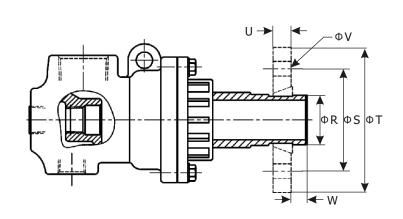


DUO-FLOW Fixed Siphon Flange & Quick Release Connection

Flange Connection



Quick Release Connection



* Please check "SS DUO-FLOW Fixed Siphon Rotary Joints" for other sizes

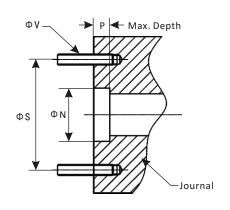
Joint Size	Part Number	Connection	E	F	G	Н	4 X Φ V	ФР	Фѕ	ФТ	U	w
4"	EU-20016-91-00	Flange	6.75"	6.84"	6.00"	7.81"	Ф.56"	Ф1.399"-1.401"	Ф2.75"	Ф3.88"	.75"	1.092"
1"	EU-20016-90-00	Q.R.	6.76"	6.85"	6.01"	7.82"	Ф.56"	Ф1.276"-1.278"	Ф3.12"	Ф5.00"	.56"	.438"
1-1/4"	EU-20020-90-00	Q.R.	8.61"	8.87"	8.30"	10.22"	Ф.56"	Ф1.620"-1.622"	Ф3.50"	Ф5.50"	.62"	.50"
1 1 / 2 !!	EU-20024-91-00	Flange	8.95"	9.00"	8.51"	10.51"	Ф.69"	Ф2.091"-2.093"	Ф3.62"	Ф4.88"	.75"	1.092"
1-1/2"	EU-20024-90-00	Q.R.	8.95"	9.00"	8.51"	10.51"	Ф.56"	Ф1.870"-1.872"	Ф3.88"	Ф5.50"	.69"	.50"
2"	EU-20032-91-00	Flange	10.15"	10.14"	9.59"	12.16"	Ф.69"	Ф2.714"-2.716"	Ф4.25"	Ф5.50"	.75"	1.092"
2	EU-20032-90-00	Q.R.	9.77"	9.77"	9.21"	11.78"	Ф.56"	Ф2.318"-2.320"	Ф4.75"	Ф6.81"	.75"	.625"
2 1 /2"	EU-20040-91-00	Flange	10.15"	10.62"	9.59"	12.16"	Ф.75"	Ф3.089"-3.091"	Ф4.62"	Ф5.88"	.75"	1.092"
2-1/2"	EU-20040-90-00	Q.R.	10.83"	10.92"	10.45"	13.14"	Ф.56"	Ф2.838"-2.840"	Ф4.75"	Ф6.75"	.88"	.75"
3"	EU-20048-91-00	Flange	11.41"	11.59"	11.22"	13.59"	Ф.69"	Ф3.714"-3.716"	Ф5.25"	Ф6.50"	.75"	1.092"
3"	EU-20048-90-00	Q.R.	11.42"	11.59"	11.22"	13.60"	Ф.69"	Ф3.730"-3.732"	Ф6.75"	Ф8.00"	.94"	.88"

Note: Q.R.= Quick Release Connection

Quick Release Flanges split wedges are available. Contact Euler for more info.

Journal Flange Reference Information

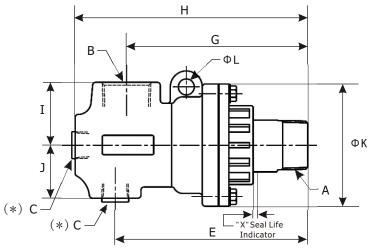
Joint	Flange Conn	ection	Quick Release Connection			
Size	ФИ	Р	ФИ	Р		
1"	Ф1.408"-1.406"	1.052"	Ф1.283"-1.279"	.312"		
1-1/4"	-	-	Ф1.624"-1.623"	.375"		
1-1/2"	Ф2.099"-2.096"	1.052"	Ф1.877"-1.873"	.375"		
2"	Ф2.724"-2.721"	1.052"	Ф2.325"-2.321"	.5"		
2-1/2"	Ф3.099"-3.096"	1.052"	Ф2.845"-2.841"	.625"		
3"	Ф3.724"-3.721"	1.052"	Ф3.439"-3.435"	.875"		





MONO-FLOW





 $(\ensuremath{\ensuremath{\ast}}) \mbox{ Sealed plug can be removed for instrumentation}$

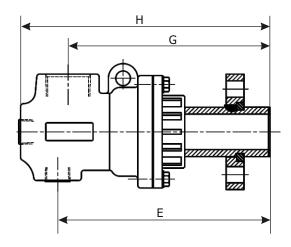
				ii be removed								
Joint Size	Part Number	А	В	С	E	G	н	-	ı	ФК	Φι	"x"
	EU-22008-00-00	1/2" NPT RH	4 /2 N.D.T.	4 /4" NDT	E 42"	4.6"	F 02"	4.621	1.16"	2 20"		1011
4 /2 !!	EU-22008-01-00	1/2" NPT LH	1/2" NPT	1/4" NPT	5.43"	4.6"	5.93"	1.62"	1.16"	3.29"	_	.19"
1/2"	EU-22008-04-03	R 1/2" RH	D 4 /2 II	D 4 /4"	127.0	116.0	150.6	44.45	20.46	02.6		4.0
	EU-22008-05-03	R 1/2" LH	R 1/2"	R 1/4"	137.9	116.8	150.6	41.15	29.46	83.6	_	4.8
	EU-22012-00-00	3/4" NPT RH	2 /4" NDT	1 /2" NDT	F 22"	4.6"	C 22"	1 75"	1 25"	2.54"		10"
2 /4"	EU-22012-01-00	3/4" NPT LH	3/4" NPT	1/2" NPT	5.22"	4.6"	6.23"	1.75"	1.25"	3.54"	_	.19"
3/4"	EU-22012-04-03	R 3/4" RH	D 2 /4"	D 1 /2"	122.6	116.0	150.2	44.45	24.75	90.0		4.0
	EU-22012-05-03	R 3/4" LH	R 3/4"	R 1/2"	132.6	116.8	158.2	44.45	31.75	89.9	_	4.8
	EU-22016-00-00	1" NPT RH	1 " NDT	1 /2" NDT	C 02"	F 27"	7.07"	2.06"	1 25"	2.00"	FO!!	25"
1"	EU-22016-01-00	1" NPT LH	1" NPT	1/2" NPT	6.02"	5.27"	7.07"	2.06"	1.25"	3.88"	.50"	.25"
	EU-22016-04-03	R 1" RH	D 1 "	D 1 /2"	152.9	122.0	170.6	F2 22	21 75	00.6	12.7	6.4
	EU-22016-05-03	R 1" LH	R 1"	R 1/2"	152.9	133.9	179.6	52.32	31.75	98.6	12.7	6.4
	EU-22020-00-00	1-1/4" NPT RH	1-1/4" NPT	2 /4" NDT	7.05"	6.74"	8.66"	2.19"	1.78"	4.76"	.62"	.25"
1-1/4"	EU-22020-01-00	1-1/4" NPT LH	1-1/4 NPT	3/4" NPT	7.05	0.74	8.00	2.19	1./0	4.70	.02	.25
1-1/4	EU-22020-04-03	R 1-1/4" RH	R 1-1/4"	R 3/4"	179.1	171.2	220.0	55.62	45.21	120.9	15.7	6.4
	EU-22020-05-03	R 1-1/4" LH	N 1-1/4	N 3/4	1/9.1	1/1.2	220.0	33.02	45.21	120.9	13.7	0.4
	EU-22024-00-00	1-1/2" NPT RH	1-1/2" NPT	3/4" NPT	7.54"	7.1"	9.09"	2.44"	2.06"	4.95"	.62"	.25"
1-1/2"	EU-22024-01-00	1-1/2" NPT LH	1-1/2 NFT	3/4 NFT	7.54	7.1	9.09	2.44	2.00	4.93	.02	.23
1-1/2	EU-22024-04-03	R 1-1/2" RH	R 1-1/2"	R 3/4"	191.5	180.3	230.9	61.98	52.32	125.7	15.7	6.4
	EU-22024-05-03	R 1-1/2" LH	N 1-1/2	N 3/4	131.3	100.5	230.3	01.56	32.32	123.7	13.7	0.4
	EU-22032-00-00	2" NPT RH	2" NPT	1-1/4" NPT	8.68"	8.12"	10.69	2.75"	2.56"	6.28"	.62"	.31"
2"	EU-22032-01-00	2" NPT LH	2 111 1	1-1/4 1011	0.00	0.12	10.03	2.73	2.50	0.20	.02	.51
	EU-22032-04-03	R 2" RH	R 2"	R 1-1/4"	220.5	206.2	271.5	69.85	65.02	159.5	15.7	7.9
	EU-22032-05-03	R 2" LH	N Z	IV 1-1/4	220.5	200.2	2/1.5	05.05	03.02	155.5	13.7	7.5
	EU-22040-00-00	2-1/2" NPT RH	2-1/2" NPT	1-1/4" NPT	10.2"	9.82"	12.51"	3.0"	2.50"	7.15"	.75"	.25"
2-1/2"	EU-22040-01-00	2-1/2" NPT LH	2 1/2 101 1	1 1/4 1011	10.2	3.02	12.51	3.0	2.50	7.13	.73	.23
2 1/2	EU-22040-04-03	R 2-1/2" RH	R 2-1/2"	R 1-1/4"	259.1	249.4	317.8	76.20	63.50	181.6	19.1	6.4
	EU-22040-05-03	R 2-1/2" LH	112 1/2	N ± ±/¬	233.1	213.4	317.0	7 0.20	03.30	101.0	13.1	0.4
	EU-22048-00-00	3" NPT RH	3" NPT	1-1/2" NPT	10.92"	10.73"	13.1"	3.62"	2.88"	8.08"	.94"	.25"
3"	EU-22048-01-00	3" NPT LH	J 141 1	± ±/	10.52	10.73	19.1	5.02	2.00	0.00	.54	.23
	EU-22048-04-03	R 3" RH	R 3"	R 1-1/2"	277.4	272.5	332.7	91.95	73.15	205.2	23.9	6.4
	EU-22048-05-03	R 3" LH	K 3	N I I/Z	277.7	212.3	332.7	51.55	75.15	203.2	23.3	0.4

Other sleeve connections available. Contact Euler.

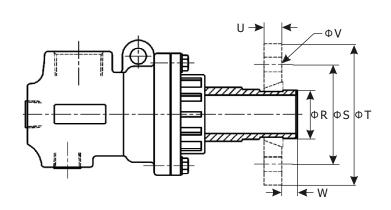


MONO-FLOW Flange & Quick Release Connection

Flange Connection



Quick Release Connection



* Please check "SS MONO-FLOW Rotary Joints" for other sizes

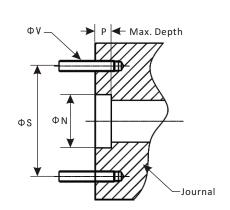
Joint Size	Part Number	Connection	E	G	Н	4 X Φ V	ФК	ФЅ	ФТ	U	w
1"	EU-22016-91-00	Flange	6.75"	6.00"	7.81"	Ф.56"	Ф1.399"-1.401"	Ф2.75"	Ф3.88"	.75"	1.092"
1	EU-22016-90-00	Q.R.	6.76"	6.01"	7.82"	Ф.56"	Ф1.276"-1.278"	Ф3.12"	Ф5.00"	.56"	.438"
1-1/4"	EU-22020-90-00	Q.R.	8.61"	8.30"	10.22"	Ф.56"	Ф1.620"-1.622"	Ф3.50"	Ф5.50"	.62"	.50"
1 1/2"	EU-22024-91-00	Flange	8.95"	8.51"	10.51"	Ф.69"	Ф2.091"-2.093"	Ф3.62"	Ф4.88"	.75"	1.092"
1-1/2"	EU-22024-90-00	Q.R.	8.95"	8.51"	10.51"	Ф.56"	Ф1.870"-1.872"	Ф3.88"	Ф5.50"	.69"	.50"
2"	EU-22032-91-00	Flange	10.15"	9.59"	12.16"	Ф.69"	Ф2.714"-2.716"	Ф4.25"	Ф5.50"	.75"	1.092"
2	EU-22032-90-00	Q.R.	9.77"	9.21"	11.78"	Ф.56"	Ф2.318"-2.320"	Ф4.75"	Ф6.81"	.75"	.625"
2-1/2"	EU-22040-91-00	Flange	10.15"	9.59"	12.16"	Ф.75"	Ф3.089"-3.091"	Ф4.62"	Ф5.88"	.75"	1.092"
2-1/2	EU-22040-90-00	Q.R.	10.83"	10.45"	13.14"	Ф.56"	Ф2.838"-2.840"	Ф4.75"	Ф6.75"	.88"	.75"
3"	EU-22048-91-00	Flange	11.41"	11.22"	13.59"	Ф.69"	Ф3.714"-3.716"	Ф5.25"	Ф6.50"	.75"	1.092"
3	EU-22048-90-00	Q.R.	11.42"	11.22"	13.60"	Ф.69"	Ф3.730"-3.732"	Ф6.75"	Ф8.00"	.94"	.88"

Note: Q.R.= Quick Release Connection

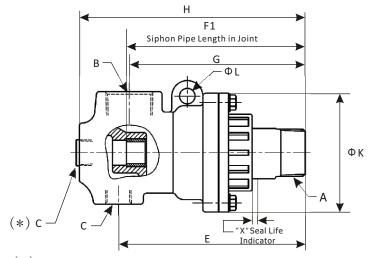
Quick Release Flanges split wedges are available. Contact Euler for more info.

Journal Flange Reference Information

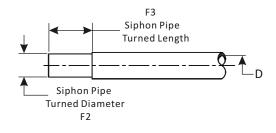
Joint	Flange Conn	ection	Quick Release C	onnection
Size	ФИ	Р	ФИ	Р
1"	Ф1.408"-1.406"	1.052"	Ф1.283"-1.279"	.312"
1-1/2"	Ф2.099"-2.096"	1.052"	Ф1.877"-1.873"	.375"
2"	Ф2.724"-2.721"	1.052"	Ф2.325"-2.321"	.5"
2-1/2"	Ф3.099"-3.096"	1.052"	Ф2.845"-2.841"	.625"
3"	Ф3.724"-3.721"	1.052"	Ф3.439"-3.435"	.875"







Duo-Flow & Rotating Siphon



(*) Sealed plug can be removed for instrumentation

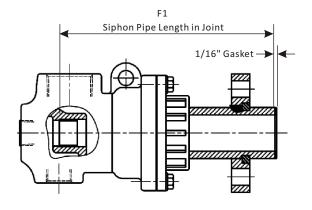
Joint Size Part Number A B C Siphon pipe size E Iength in joint F2 Pipe Dia. F3 Turned length G H Ф К	ΦL ")141	'	3.29"			Turned			_			_			1 - 1 - 4
1/2" NPT	_ 4			5.93"	4.6"			_	L		C	В	Α	Part Number	
EU-21008-01-00 1/2"NPTLH R1/2" R1/4" 1/8" 137.9 131.83 9.42-9.45 28.6 117 150.6 83.6 EU-21012-00-00 3/4"NPTLH EU-21012-01-00 3/4"NPTLH EU-21012-01-00 3/4"NPTLH EU-21012-01-00 3/4"NPTLH EU-21012-01-00 3/4"NPTLH EU-21012-01-00 1/4"NPTLH EU-21012-01-00 1/4"NPTLH 1/2"NPT 1/4" 5.22" 5.13" 1/496"-497" 1.125" 1/46" 6.23" 3.54"	_ 4			5.95		1 125"	271" 272"	E 10"	E 42"	1 /0"	1 /4" NDT	1 /2" NDT	1/2" NPT RH	EU-21008-00-00	
EU-21008-04-03 R 1/2"RH	_	_	83.6		4.6	1.125	.3/13/2	5.19	5.43	1/8	1/4 NP1	1/2 NP1	1/2" NPT LH	EU-21008-01-00	1 /2"
EU-21008-05-03 R 1/2"LH EU-21012-00-00 3/4"NPT RH EU-21012-01-00 3/4"NPT LH 3/4"NPT 1/2"NPT 1/4" 5.22" 5.13" .496"497" 1.125" 4.6" 6.23" 3.54"	_	_		150.6	117	20.6	0.42.0.45	121 02	127.0	1 /0"	D 1 /4"	D 1 /2"	R 1/2" RH	EU-21008-04-03	1/2
3/4" NPT LH S-22" 5.13" .496"497" 1.125" 4.6" 6.23" 3.54" EU-21012-01-00 3/4" NPT LH S-22" 5.13" .496"497" 1.125" 4.6" 6.23" 3.54"	1		03.0	130.0	117	28.0	3.42-3.43	131.63	137.9	1/0	N 1/4	N 1/2	R 1/2" LH	EU-21008-05-03	
3/4" EU-21012-01-00 3/4" NPT LH	-	,	2 5 4 "	6 22"	1 6"	1 125"	406" 407"	E 12"	E 22"	1 //"	1 /2" NIDT	2 /4" NDT	3/4" NPT RH	EU-21012-00-00	
			3.34	0.23	4.0	1.123	.490497	3.13	3.22	1/4	1/2 NF1	3/4 NFT	3/4" NPT LH	EU-21012-01-00	2 //"
R3/4" R1/2" 1/4" 132.6 130.30 12.60-12.62 28.6 117 158.2 89.9	4		90 O	150 2	117	20.6	12 60 12 62	120.20	122 6	1 //"	D 1 /2"	D 2 /4"	R 3/4" RH	EU-21012-04-03	3/4
EU-21012-05-03 R 3/4" LH	_ 4	_	69.9	136.2	117	20.0	12.00-12.02	130.30	132.0	1/4	N 1/2	N 3/4	R 3/4" LH	EU-21012-05-03	
EU-21016-00-00 1"NPTRH 1"NPT 1/2"NPT 3/8" 6.02" 6.14" .621"622" 1.25" 5.27" 7.07" 3.88"	.50" .2	' 50"	2 00"	7 07"	5 27"	1 25"	621"- 622"	6 14"	6.02"	2 /0"	1 /2" NDT	1" NDT	1" NPT RH	EU-21016-00-00	
EU-21016-01-00 1"NPTLH 1/2 NPT 3/8 0.02 0.14 .021022 1.23 3.27 /.07 3.88	.30 .2	.30	3.00	7.07	3.27	1.23	.021022	0.14	0.02	5/0	1/2 NF1	INFI	1" NPT LH	EU-21016-01-00	1"
EU-21016-04-03 R 1"RH	12.7 6	12.7	08.6	170 6	12/	21 75	15 77 15 90	155.06	1520	2 /0"	D 1 /2"	D 1"	R 1" RH	EU-21016-04-03	1
EU-21016-05-03 R 1"LH	12.7	12.7	38.0	179.0	134	31.73	13.77-13.80	155.90	132.9	5/0	N 1/2	KI	R 1" LH	EU-21016-05-03	
EU-21020-00-00 1-1/4"NPT RH 1-1/4"NPT 3/4"NPT 1/2" 7.05" 7.53" .808"810" 1.50" 6.74" 8.66" 4.76"	.62" .2	' 62"	1 76"	8 66"	6 74"	1 50"	Q0Q"_ Q10"	7 52"	7.05"	1 /2"	2 //" NIDT	1_1 ///" NIDT	1-1/4" NPT RH	EU-21020-00-00	
EU-21020-01-00 1-1/4" NPT LH 1-1/4 NFT 1/2 7.03 7.33 .808 -810 1.30 0.74 8.00 4.70	.02 .2	.02	4.70	8.00	0.74	1.50	.808810	7.55	7.05	1/2	3/4 NF1		1-1/4" NPT LH	EU-21020-01-00	1 1 // "
EU-21020-04-03 R 1-1/4" RH	15.7 6	15 7	121	220.0	171	20 1	20 52 20 57	101 26	170 1	1 /2"	D 2 //!"	D 1 1 //!	R 1-1/4" RH	EU-21020-04-03	1-1/4
EU-21020-05-03 R1-1/4"LH K3/4 1/2 1/3.1 191.20 20.32-20.37 36.1 1/1 220.0 121	13.7	15.7	121	220.0	1/1	36.1	20.32-20.37	191.20	1/9.1	1/2	N 3/4	K 1-1/4	R 1-1/4" LH	EU-21020-05-03	
EU-21024-00-00 1-1/2"NPT RH 1-1/2"NPT 3/4"NPT 3/4" 7.54" 7.53" .995"997" 1.50" 7.1" 9.09" 4.95"	.62" .2	' 62"	/ Q5"	a na"	7 1"	1 50"	005"- 007"	7 52"	7 5/1"	2 //!"	2 //" NIDT	1_1 /2" NIDT	1-1/2" NPT RH	EU-21024-00-00	
EU-21024-01-00 1-1/2" NPT LH 1-1/2 NFT 3/4 NFT 3/4 7.53 .993 -1.997 1.30 7.1 9.09 4.93	.02 .2	.02	4.93	9.09	7.1	1.50	.993997	7.55	7.54	3/4	3/4 NF1	1-1/2 INF1	1-1/2" NPT LH	EU-21024-01-00	1_1 /2"
EU-21024-04-03 R 1-1/2"RH	15.7 6	15 7	126	220.0	180	20 1	25 27-25 22	101 26	101 5	2 //\"	D 2 //!"	D 1_1 /2"	R 1-1/2" RH	EU-21024-04-03	1-1/2
EU-21024-05-03 R 1-1/2"LH	13.7	15.7	120	230.9	180	36.1	23.27-23.32	191.20	191.5	3/4	113/4	N 1-1/2	R 1-1/2" LH	EU-21024-05-03	
EU-21032-00-00 2"NPTRH 2"NPT 1-1/4"NPT 3/4" 8.68" 8.43" 1.245"-1.247" 2.00" 8.12" 10.69 6.28"	.62" .3	' 62"	6 28"	10.60	Q 12"	2 00"	1 2/15"-1 2/17"	Q /12"	8 68"	2 //!"	1_1 // " NIDT	2" NDT	2" NPT RH	EU-21032-00-00	
EU-21032-01-00 2" NPT LH 2 NFT 1-1/4 NFT 3/4 8.08 8.43 1.243 -1.247 2.00 8.12 10.09 0.28	.02 .3	.02	0.28	10.03	0.12	2.00	1.245 -1.247	0.43	8.08	3/4	1-1/4 NFT	Z INF I	2" NPT LH	EU-21032-01-00	2"
EU-21032-04-03 R 2"RH	15.7 7	15.7	160	271 5	206	50.8	31 62-31 67	21/112	220 5	3 ///"	R 1 ₋ 1 //\"	R 2"	R 2" RH	EU-21032-04-03	2
EU-21032-05-03 R 2"LH	13.7	15.7	100	271.5	200	30.8	31.02-31.07	214.12	220.5	3/4	N 1-1/4	IV Z	R 2"LH	EU-21032-05-03	
EU-21040-00-00 2-1/2" NPT RH 2-1/2" NPT 1-1/4" NPT 1" 10.2" 10.08" 1.495"-1.497" 2.25" 9.82" 12.51" 7.15"	.75" .2	' 75"	7 15"	12 51"	0 82"	2 25"	1 /105" ₋ 1 /107"	10 08"	10 2"	1"	1 ₋ 1 //\" NIDT	2-1/2" NDT	2-1/2" NPT RH	EU-21040-00-00	
EU-21040-01-00 2-1/2" NPTLH 2-1/2 NI 1-1/4 NI 1 10.2 10.00 1.433 4.437 2.23 3.02 12.31 7.13	./3 .2	.,,	7.13	12.51	3.02	2.23	1.433 -1.437	10.00	10.2	1	1-1/4 1011		2-1/2" NPT LH	EU-21040-01-00	2-1/2"
EU-21040-04-03 R 2-1/2"RH	19.1 6	10 1	182	317 8	2/19	57.2	37 97 ₋ 38 02	256.03	250 1	1"	R 1 ₋ 1 //\"	R 2-1/2"	R 2-1/2" RH	EU-21040-04-03	2-1/2
EU-21040-05-03 R 2-1/2"LH	13.1	15.1	102	317.8	243	37.2	37.37-38.02	230.03	233.1	1	N 1-1/4	11 2-1/2	R 2-1/2" LH	EU-21040-05-03	
EU-21048-00-00 3" NPT RH 3" NPT 11/2" NPT 1-1/2" 10.92" 11.09 1.745"-1.747" 2.25" 10.73" 13.1" 8.08"	.94" .2	' 9 <i>4</i> "	8 N8"	13 1"	10 73"	2 25"	1 745"-1 7 <i>4</i> 7"	11 09	10 92"	1-1/2"	1 1/2" NPT	3" NPT	3" NPT RH	EU-21048-00-00	
8" EU-21048-01-00 3" NPT LH 11/2 NFT 1-1/2 10.32 11.03 17.743 -1.747 2.23 10.73 13.1 8.08	.54 .2	.34	0.00	13.1	10.73	2.23	1./43 -1./4/	11.09	10.32	1-1/2	1 1/2 INFT	JINFI	3" NPT LH	EU-21048-01-00	3"
EU-21048-04-03 R 3" RH	23.9 6	23.0	205	332.7	272	57.2	44 32-44 37	281 60	277 /	1-1/2"	R 1-1/2"	R 3"	R 3" RH	EU-21048-04-03	,
EU-21048-05-03 R 3"LH R 3 R 1-1/2 1-1/2 277.4 281.09 44.32-44.37 37.2 273 332.7 203	23.9 0	23.3	203	332.7	2/3	37.2	77.32-44.37	201.09	277.4	1-1/2	1(1-1/2	K 3	R 3"LH	EU-21048-05-03	

Other sleeve connections available. Contact Euler.

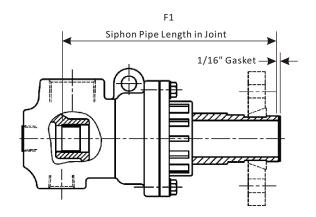


DUO-FLOW Rotating Siphon Flange & Quick Release Connection

Flange Connection



Quick Release Connection



^{*} Please check "SS DUO-FLOW Fixed Siphon Rotary Joints" for other sizes

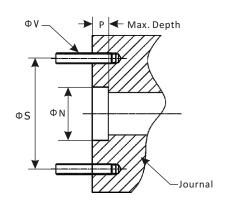
Joint Size	Part Number	Connection	D Siphon pipe size	F1 length in Joint	F2 Pipe Dia.	F3 Turned length
1"	EU-21016-91-00	Flange	3/8"	6.88"	Ф.621"622"	1.250"
1	EU-21016-90-00	Q.R.	3/8"	6.89"	Ф.621"622"	1.250"
1-1/4"	EU-21020-90-00	Q.R.	1/2"	8.65"	Ф.808"810"	1.500"
1-1/2"	EU-21024-91-00	Flange	3/4"	8.94"	Ф.995"997"	1.500"
1-1/2	EU-21024-90-00	Q.R.	3/4"	8.95"	Ф.995"997"	1.500"
2"	EU-21032-91-00	Flange	1"	9.89"	Ф1.245"-1.247"	2.000"
	EU-21032-90-00	Q.R.	1"	9.52"	Ф1.245"-1.247"	2.000"
2-1/2"	EU-21040-91-00	Flange	1-1/4"	10.70"	Ф1.495"-1.497"	2.250"
2-1/2	EU-21040-90-00	Q.R.	1-1/4"	10.70"	Ф1.495"-1.497"	2.250"
3"	EU-21048-91-00	Flange	1-1/2"	11.60"	Ф1.745"-1.747"	2.250"
3	EU-21048-90-00	Q.R.	1-1/2"	11.60"	Ф1.745"-1.747"	2.250"

Note: Q.R.= Quick Release Connection

 $\label{thm:contact} \mbox{Quick Release Flanges split wedges are available. Contact Euler for more info.}$

Journal Flange Reference Information

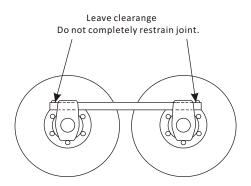
Joint	Flange Conn	ection	Quick Release C	onnection
Size	ФИ	Р	ФИ	Р
1"	Ф1.408"-1.406"	1.052"	Ф1.283"-1.279"	.312"
1-1/4"	•	-	Ф1.624"-1.623"	.375"
1-1/2"	Ф2.099"-2.096"	1.052"	Ф1.877"-1.873"	.375"
2"	Ф2.724"-2.721"	1.052"	Ф2.325"-2.321"	.5"
2-1/2"	Ф3.099"-3.096"	1.052"	Ф2.845"-2.841"	.625"
3"	Ф3.724"-3.721"	1.052"	Ф3.439"-3.435"	.875"



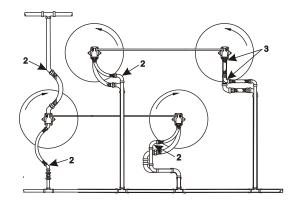


Installation Instructions

- 1. Always use a flexible hose rated for the media, pressure and temperature. Avoid side loading the union with the hose.
- 2. Do not install hose taut. Use 45' or 90' elbows to avoid kinking.
- In tight installations use vertical and horizontal hoses connected by a 90' elbow.



Anti-Rotation rods may be installed either horizontally or vertically.



- 4. If union has an anti-rotation lug use pipe or solid rod between unions or machine frame. Install anti-rotation rod loosely allowing free movement of the union.
- 5. Suggested Anti-Rotation Rod Size
 1" Union 3/8" dia. Max
 1 1/4" to 2" Union ½"dia. Max
 2 ½"Union 5/8" dia. Max
 3" Union 3/4" dia. Max

EULER Warranty

EULER warrants it's products for one year, except for three years on the WS Series unions, from date of shipment are free from defects in materials and workmanship. Euler's sole liability is for repair or replacement when returned transportation prepaid after obtaining a Return Goods Authorization after a reasonable time from the warranty period.

This warranty is void if in Euler's judgment the union has been dismantled, modified, damaged from improper maintenance, side loading, excessive temperature, abrasive or chemical action or other forms of abuse.

Euler makes no other warranties either express or implied on merchantability and fitness for a particular purpose. No representative, agent or employee of Euler has the authority to modify the terms of this warranty. Euler will not be responsible for any consequential or resulting damage claimed to be caused by the use of it's products.



Technical Data

Flow Factors (Cv)

Joint Size	SS DUO-FLOW With Syphon Pipe Cv	SS MONO-FLOW With Syphon Pipe Cv
1/2"	2.0	7.0
3/4"	8.0	20.0
1"	12.0	34.0
1-1/4"	18.0	40.0
1-1/2"	23.0	49.0
2"	49.0	80.0
2-1/2"	59.0	130.0
3"	93.0	200.0

$$\triangle P = (\frac{Q}{Cv})$$

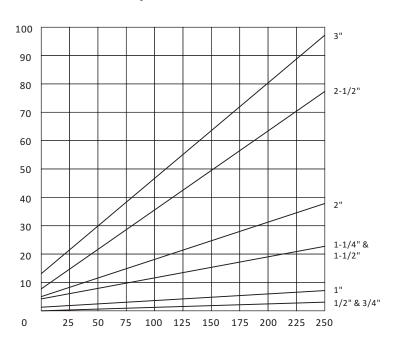
 $\triangle P$ = pressure drop (psi)

Q = flow (gpm)

Cv = flow in gpm with one psi pressure

drop. (+60°F water)

Torque vs Pressure



ADDITIONAL EULER ENGINEERED PRODUCTS



Culer

Email: info@eulerinc.com www.eulerinc.com

The EULER WS/WSX Rotary Unions have premium features not found in other unions such as low torque, seals for filtered and unfiltered media and is RoHS compliant.

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EULER INC.

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