DEUBLIN

Rotary Union
BC-54000 Series
Water, Steam & Hot Oil Service, Fixed Siphon

- Duoflow, fixed siphon design
- Two widely spaced Carbon Bearings provide greater support to the siphon pipe and hoses
- Carbon Seal placed under compression add strength and shock resistance
- External seal wear indicator allows for planned maintenance reducing expensive downtime
- Cast Iron Housing
- Ferrous Rotor and End Cap

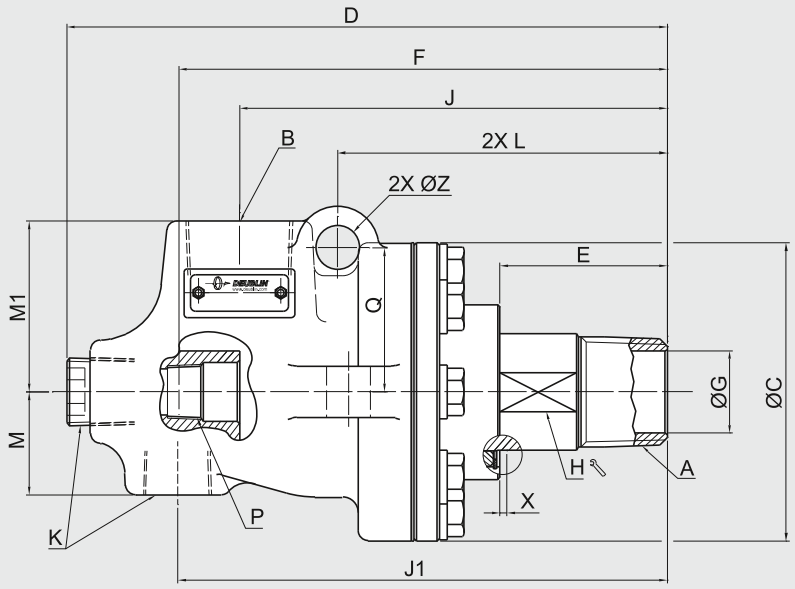
For further information, please contact Deublin or your local representative.

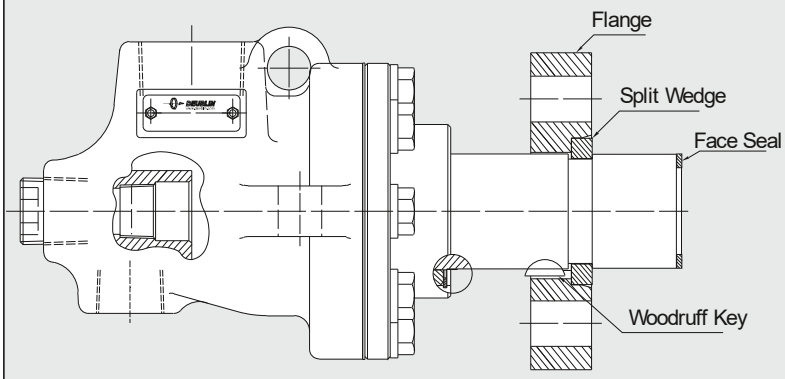
Operating Data

Max. Water or Steam Pressure	½ to 1 ½	250 PSI	17.2 bar
	2 to 3	225 PSI	15.5 bar
Max. Hot Oil Pressure	½ to 3	100 PSI	6.9 bar
Max. Speed	½ to 1 ½	400 rpm	400 min^{-1}
	2 to 3	350 rpm	350 min^{-1}
Max. Water Temperature		406 °F	208 °C
Max. Hot Oil Temperature		446 °F	232 °C

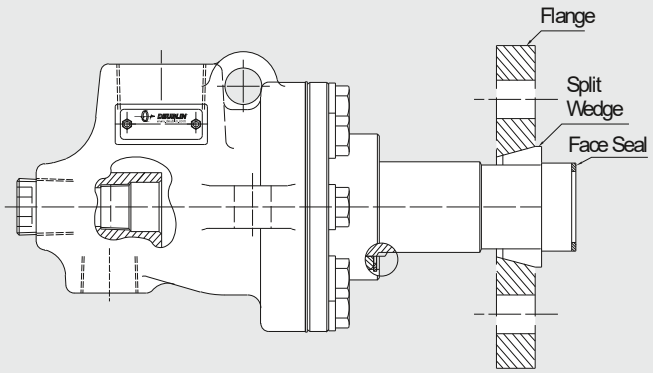
For higher temperature, please consult Deublin.

Duoflow Rotary Union with Fixed Siphon





"CF" Connection
BC-54XXX-XX-30

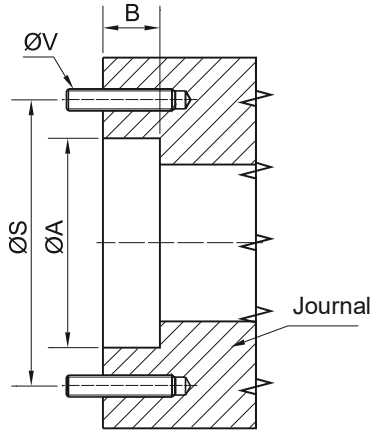


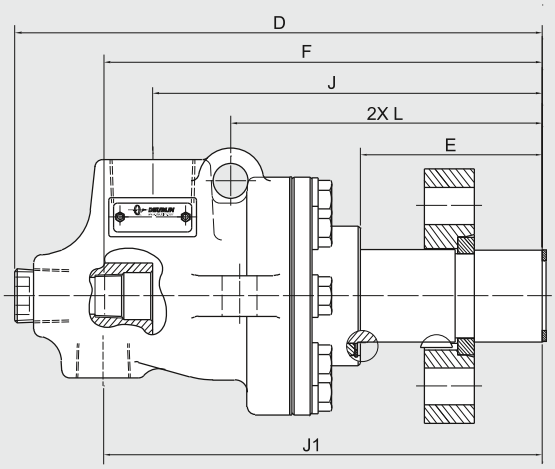
Quick Release Connection
BC-54XXX-XX-32

Journal Dimensions

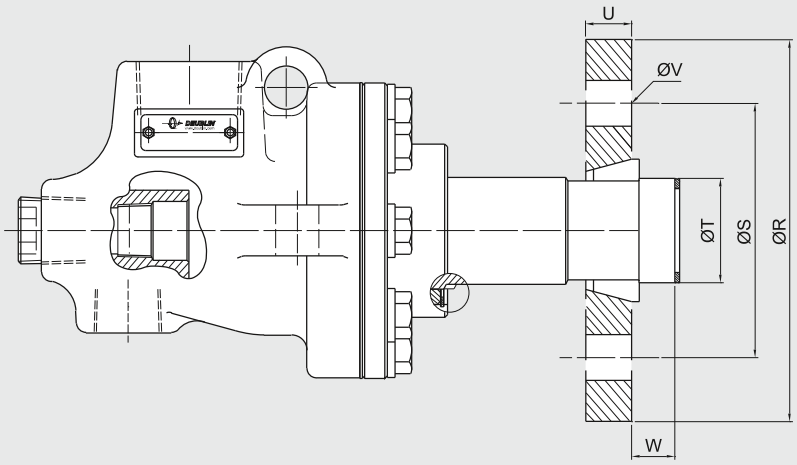
Joint Size	CF Connection		Quick Release Connection	
	ØA	B	ØA	B
1 ½	53.31 - 53.24	26.7	47.60 - 47.70	9.5
2	69.19 - 69.11	26.7	58.98 - 59.08	12.7
2 ½	78.71 - 78.63	26.7	72.19 - 72.29	15.9
3	94.59 - 94.51	26.7	87.18 - 87.28	22.2

Quick Release Flanges and split wedges are available.
Contact Deublin for more information.





"CF" Connection
BC-54XXX-XX-30



Quick Release Connection
BC-54XXX-XX-32

BC-54000 Series, Fixed Siphon

DN	Hot Oil Part Number	Water or Steam Part Number	A	B	ØC	D	E	F	ØG	H	J	J1	K
15	BC-54000-08-20	BC-54000-08-50	½ NPT RH	½ NPT	76	154	43	124	12.7	22.1	115	136	¼ NPT
	BC-54000-08-21	BC-54000-08-51	½ NPT LH	½ NPT	76	154	43	124	12.7	22.1	115	136	¼ NPT
20	BC-54000-12-20	BC-54000-12-50	¾ NPT RH	¾ NPT	86	160	43	132	19	27.6	115	131	½ NPT
	BC-54000-12-21	BC-54000-12-51	¾ NPT LH	¾ NPT	86	160	43	132	19	27.6	115	131	½ NPT
25	BC-54000-16-20	BC-54000-16-50	1 NPT RH	1 NPT	92	184	52	151	25	33.7	132	151	½ NPT
	BC-54000-16-21	BC-54000-16-51	1 NPT LH	1 NPT	92	184	52	151	25	33.7	132	151	½ NPT
	BC-54000-16-20B	BC-54000-16-50B	1 BSPT RH	1 BSPT	92	184	52	151	25	33.7	132	151	½ BSPT
	BC-54000-16-21B	BC-54000-16-51B	1 BSPT LH	1 BSPT	92	184	52	151	25	33.7	132	151	½ BSPT
32	BC-54000-20-20	BC-54000-20-50	1 ¼ NPT RH	1 ¼ NPT	111	226	48	179	32	42.9	170	178	¾ NPT
	BC-54000-20-21	BC-54000-20-51	1 ¼ NPT LH	1 ¼ NPT	111	226	48	179	32	42.9	170	178	¾ NPT
	–	BC-54000-20-50B	1 ¼ BSPT RH	1 ¼ BSPT	111	226	48	179	32	42.9	170	178	¾ BSPT
40	BC-54000-24-20	BC-54000-24-50	1 ½ NPT RH	1 ½ NPT	121	237	54	186	38.1	49.28	179	190	¾ NPT
	BC-54000-24-21	BC-54000-24-51	1 ½ NPT LH	1 ½ NPT	121	237	54	186	38.1	49.28	179	190	¾ NPT
	BC-54000-24-20B	BC-54000-24-50B	1 ½ BSPT RH	1 ½ BSPT	121	237	54	186	38.1	49.28	179	190	¾ BSPT
	–	BC-54000-24-60	CF	1 ½ NPT	121	273	90	222	38.1	–	215	226	¾ NPT
	–	BC-54000-24-62	QR	1 ½ NPT	121	273	90	222	38.1	–	215	226	¾ NPT
	–	BC-54000-24-62B	QR	1 ½ BSPT	121	273	90	222	38.1	–	215	226	¾ BSPT
50	BC-54000-32-20	BC-54000-32-50	2 NPT RH	2 NPT	152	294	56	215	48	60.45	205	219	1 ¼ NPT
	–	BC-54000-32-51	2 NPT LH	2 NPT	152	294	56	215	48	60.45	205	219	1 ¼ NPT
	–	BC-54000-32-60	CF	2 NPT	152	331	93	251	48	–	242	256	1 ¼ NPT
65	BC-54000-40-20	BC-54000-40-50	2 ½ NPT RH	2 ½ NPT	172	340	74	253	57.2	74.5	248	257	1 ¼ NPT
	–	BC-54000-40-51	2 ½ NPT LH	2 ½ NPT	172	340	74	253	57.2	74.5	248	257	1 ¼ NPT
	–	BC-54000-40-60	CF	2 ½ NPT	172	356	90	270	57.2	–	263	272	1 ¼ NPT
80	–	BC-54000-48-50	3 NPT RH	3 NPT	200	358	78	274	73	89.5	271	276	1 ½ NPT
	–	BC-54000-48-51	3 NPT LH	3 NPT	200	358	78	274	73	89.5	271	276	1 ½ NPT
	–	BC-54000-48-62	QR	3 NPT	200	369	91	285	73	89.5	284	287	1 ½ NPT

* BSPT Models are not supplied with siphon bushing

L	M	M1	P	P with bushing	Q	ØR	ØS	ØT	U	4 X ØV	W	X	ØZ	kg	DN
–	30	42	1/8 NPT	–	–	–	–	–	–	–	–	4.8	–	1.59	15
–	30	42	1/8 NPT	–	–	–	–	–	–	–	–	4.8	–	1.59	
–	32	44	1/4 NPT	1/8 NPT	–	–	–	–	–	–	–	4.8	–	2.27	20
–	32	44	1/4 NPT	1/8 NPT	–	–	–	–	–	–	–	4.8	–	2.27	
102	32	53	3/8 NPT	1/4 NPT	44	–	–	–	–	–	–	6.3	13.5	2.72	25
102	32	53	3/8 NPT	1/4 NPT	44	–	–	–	–	–	–	6.3	13.5	2.72	
102	32	53	3/8 BSPT	–	44	–	–	–	–	–	–	6.3	13.5	2.72	
102	32	53	3/8 BSPT	–	44	–	–	–	–	–	–	6.3	13.5	2.72	
111	45	56	1/2 NPT	3/8 NPT	53	–	–	–	–	–	–	6.3	16	5.9	32
111	45	56	1/2 NPT	3/8 NPT	53	–	–	–	–	–	–	6.3	16	5.9	
111	45	56	1/2 BSPT	–	53	–	–	–	–	–	–	6.3	16	5.9	
120	52	62	3/4 NPT	1/2 NPT	57	–	–	–	–	–	–	6.3	16	6.8	40
120	52	62	3/4 NPT	1/2 NPT	57	–	–	–	–	–	–	6.3	16	6.8	
120	52	62	3/4 BSPT	–	57	–	–	–	–	–	–	6.3	16	6.8	
156	52	62	3/4 NPT	1/2 NPT	57	124	92	53.14 ± 0.02	19	17	26.2	6.3	16	8.62	
156	52	62	3/4 NPT	1/2 NPT	57	–	–	–	–	–	–	6.3	16	6.8	
156	52	62	3/4 BSPT	–	57	–	–	–	–	–	–	6.3	16	6.8	
127	65	70	3/4 NPT	1/2 NPT	70	–	–	–	–	–	–	7.9	16	11.79	50
127	65	70	3/4 NPT	1/2 NPT	70	–	–	–	–	–	–	7.9	16	11.79	
164	65	70	3/4 NPT	1/2 NPT	70	140	108	68.96 ± 0.02	19	17.35	26	7.9	16	14.06	
161	64	76	1 NPT	3/4 NPT	78	–	–	–	–	–	–	6.3	19	14.97	65
161	64	76	1 NPT	3/4 NPT	78	–	–	–	–	–	–	6.3	19	14.97	
176	64	76	1 NPT	3/4 NPT	78	149	117.4	78.49 ± 0.02	19	17.35	26	6.3	19	18.14	
168	73	92	1 1/2 NPT	1 NPT	92	–	–	–	–	–	–	6.35	24	20.41	80
168	73	92	1 1/2 NPT	1 NPT	92	–	–	–	–	–	–	6.35	24	20.41	
181	73	92	1 1/2 NPT	1 NPT	92	–	–	87.15 ± 0.02	–	–	–	6.35	24	20.41	

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Rotary Union
BC-54100 Series
Water, Steam & Hot Oil Service, Monoflow

- Monoflow design
- Carbon Seal placed under compression add strength and shock resistance
- External seal wear indicator allows for planned maintenance reducing expensive downtime
- Cast Iron Housing
- Ferrous Rotor and End Cap

For further information, please contact Deublin or your local representative.

Operating Data

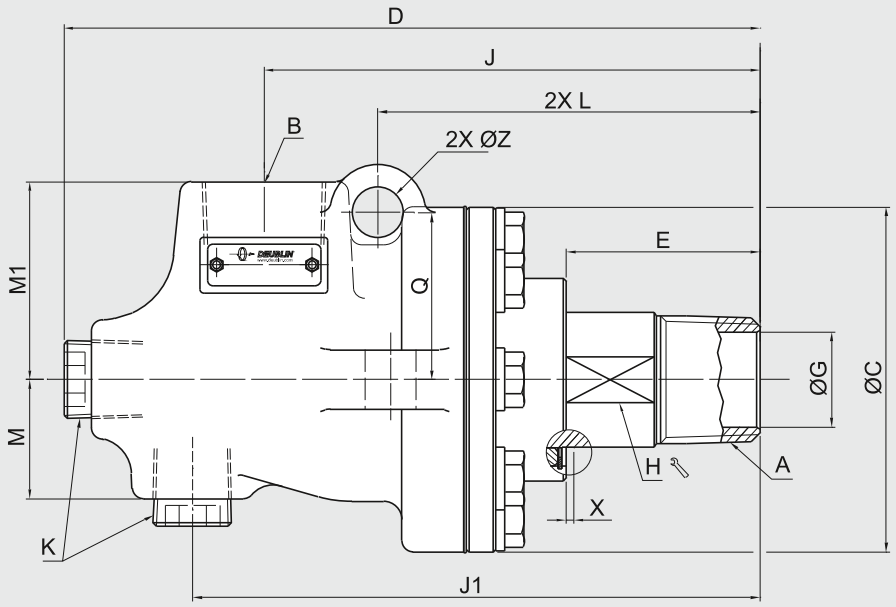
Max. Water or Steam Pressure	½ to 1½	250 PSI	17.2 bar
Max. Hot Oil Pressure	½ to 1½	100 PSI	6.9 bar
Max. Speed	½ to 1½	400 rpm	400 min^{-1}
Max. Water Temperature		406 °F	208 °C
Max. Hot Oil Temperature		446 °F	232 °C

For higher temperature, please consult Deublin.

BC-54100 Series, Monoflow

DN	Hot Oil Part Number	Water or Steam Part Number	A	B	ØC	D	E	ØG	H
15	BC-54100-08-20	BC-54100-08-50	½ NPT RH	½ NPT	76	154	43	12.7	22.1
	BC-54100-08-21	BC-54100-08-51	½ NPT LH	½ NPT	76	154	43	12.7	22.1
20	BC-54100-12-20	BC-54100-12-50	¾ NPT RH	¾ NPT	86	163	43	19	27.6
	BC-54100-12-21	BC-54100-12-51	¾ NPT LH	¾ NPT	86	163	43	19	27.6
25	BC-54100-16-20	BC-54100-16-50	1 NPT RH	1 NPT	92	184	52	25	33.7
	BC-54100-16-21	BC-54100-16-51	1 NPT LH	1 NPT	92	184	52	25	33.7
40	BC-54100-24-20	BC-54100-24-50	1 ½ NPT RH	1 ¼ NPT	121	237	54	38.1	49.28
	BC-54100-24-21	BC-54100-24-51	1 ½ NPT LH	1 ¼ NPT	121	237	54	38.1	49.28
50	BC-54100-32-20	BC-54100-32-50	2 NPT RH	2 NPT	152	270	56	47.8	60.5
	BC-54100-32-21	BC-54100-32-51	2 NPT LH	2 NPT	152	270	56	47.8	60.4

Threaded Connection



J	J1	K	L	M	M1	Q	X	ØZ	kg	DN
115	136	¼ NPT	–	30	42	–	4.8	–	1.59	15
115	136	¼ NPT	–	30	42	–	4.8	–	1.59	
115	131	½ NPT	–	32	45	–	4.8	–	2.27	20
115	131	½ NPT	–	32	45	–	4.8	–	2.27	
132	151	½ NPT	102	32	53	44	6.3	13.5	2.72	25
132	151	½ NPT	102	32	53	44	6.3	13.5	2.72	
179	190	¾ NPT	120	52	62	57	6.3	16	6.8	40
179	190	¾ NPT	120	52	62	57	6.3	16	6.8	
205	219	1 ¼ NPT	127	65	70	70	7.9	16	11.8	50
205	219	1 ¼ NPT	127	65	70	70	7.9	16	11.8	

DEUBLIN

Rotary Union
BC-54205 Series
Water, Steam & Hot Oil Service, Rotating Siphon

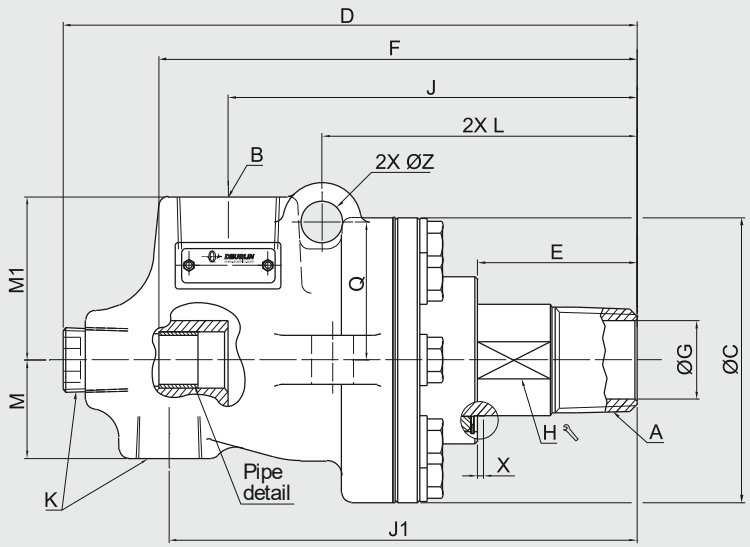
- Duoflow, Rotating Siphon design
- Two widely spaced Carbon Bearings provide greater support to the siphon pipe and hoses
- Carbon Seal placed under compression add strength and shock resistance
- External seal wear indicator allows for planned maintenance reducing expensive downtime
- Cast Iron Housing
- Ferrous Rotor and End Cap

For further information, please contact Deublin or your local representative.

Operating Data

Max. Water or Steam Pressure	2 to 3	225 PSI	15.5 bar
Max. Hot Oil Pressure	¾ to 1½	100 PSI	6.9 bar
Max. Speed	¾ to 1½	400 rpm	400 min^{-1}
	2 to 3	350 rpm	350 min^{-1}
Max. Water Temperature		406 °F	208 °C
Max. Hot Oil Temperature		446 °F	232 °C

For higher temperature, please consult Deublin.

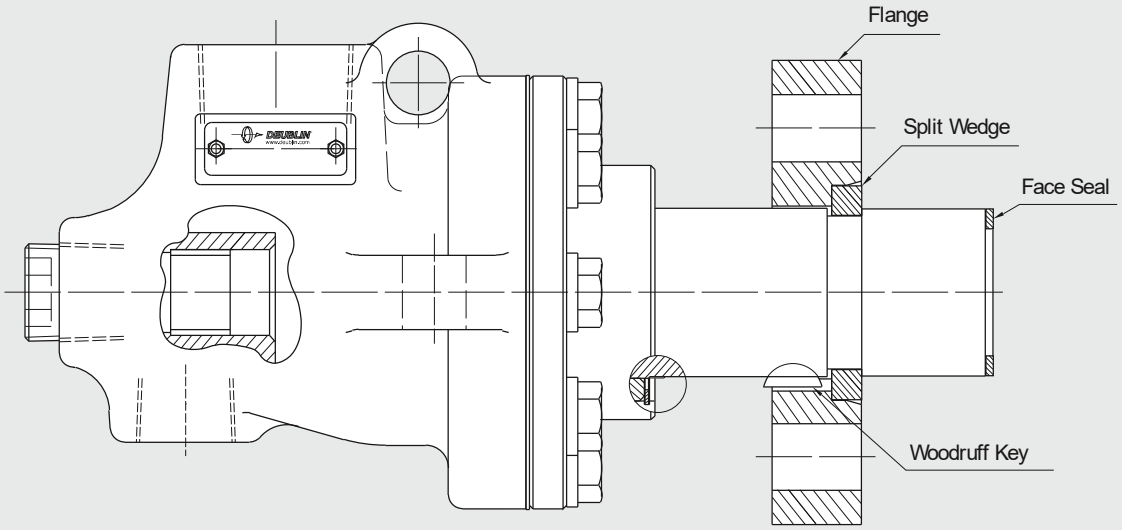


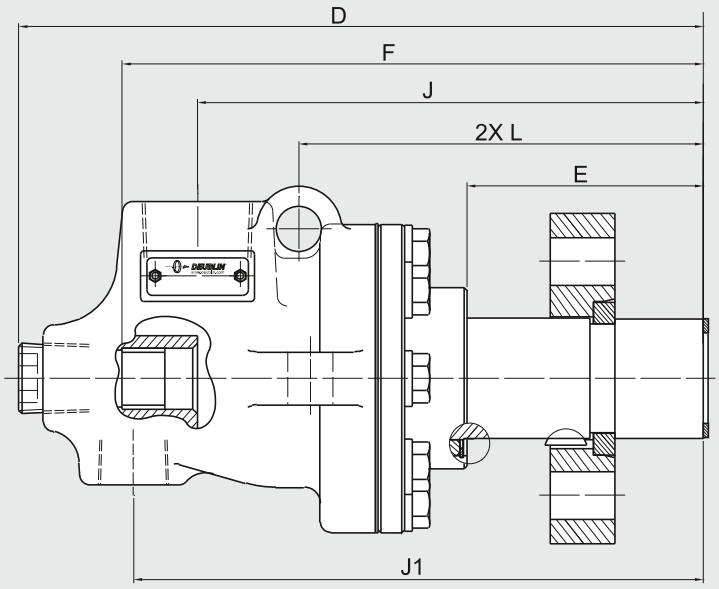
Siphon Dimensions

Joint Size	Siphon Pipe Turned Diameter	Siphon Pipe Turned Length
½	9.42 – 9.45	28.6
¾	12.59 – 12.62	28.6
1	15.77 – 15.80	31.8
1 ¼	20.52 – 20.57	38.1
1 ½	25.27 – 25.32	38.1
2	31.62 – 31.67	50.8
2 ½	37.97 – 38.02	57.2
3	44.32 – 44.37	57.2

DN	Hot Oil Part Number	Water or Steam Part Number	A	B	ØC	D	E	F	ØG	H	J
20	–	BC-54205-12-50	¾ NPT RH	¾ NPT	86.4	163	43	129	19.3	27.6	115
	BC-54205-12-21	–	¾ NPT LH	¾ NPT	86.4	163	43	129	19.3	27.6	115
25	BC-54205-16-21	–	1 NPT LH	1 NPT	92	184	52	154	25	33.7	132
40	BC-54205-24-20	–	1 ½ NPT RH	1 ½ NPT	121	237	54	190	38.1	49.28	179
	BC-54205-24-21	–	1 ½ NPT LH	1 ½ NPT	121	237	54	190	38.1	49.28	179
50	–	BC-54205-32-50	2 NPT RH	2 NPT	152	294	56	212	48	60.45	205
65	–	BC-54205-40-50	2 ½ NPT RH	2 ½ NPT	172	340	74	254	57	74.5	248
80	–	BC-54205-48-60	CF	3 NPT	200	370	91	293	73	–	284

Threaded End & Siphon Pipe





J1	K	L	M	M1	Q	ØR	ØS	ØT	U	4 X ØV	W	X	ØZ	kg	DN
136	½ NPT	–	32	45	–	–	–	–	–	–	–	4.8	–	2.27	**20**
136	½ NPT	–	32	45	–	–	–	–	–	–	–	4.8	–	2.27	
151	½ NPT	102	32	53	44	–	–	–	–	–	–	6.3	13.5	2.72	**25**
190	¾ NPT	120	52	62	57	–	–	–	–	–	–	6.3	16	5.9	**40**
190	¾ NPT	120	52	62	57	–	–	–	–	–	–	6.3	16	5.9	
219	1 ¼ NPT	127	65	70	70	–	–	–	–	–	–	7.9	16	11.79	**50**
258	1 ¼ NPT	161	64	76	78	–	–	–	–	–	–	6.3	19	14.97	**65**
289	1 ½ NPT	181	73	92	92	165	133.35	94.36 ± 0.025	19	17.5	26.2	6.3	24	22.68	**80**