

# 3100 Series Rotary Unions for General Purpose

## Water, Saturated Steam & Hot Oil Services



### Special Design Features

- Self-supported rotary union
- Forged brass housing up to 2" size
- Corrosion resist stainless steel rotor
- Highly precise and lubricated heavy duty ball bearings for long life and stable rotation
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Seal face combination: Carbon Graphite to Ceramic
- Designed for both mono-flow and duo-flow
- Available in both US and metric standards
- Easy installation
- Custom models are available

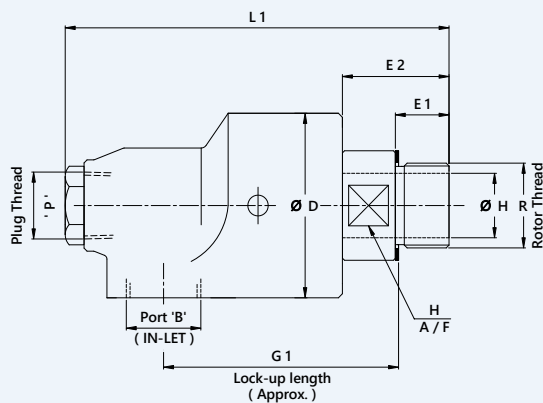
### Technical Data

- Max. Water Pressure 10 bar ( 150 psi )
- Max. Saturated Steam Pressure 1 bar ( 15 psi )
- Max. Hot Oil Pressure 7 bar ( 100 psi )
- Max. Temperature 126°C ( 260° F )
- Max. Rotor Speed for
- Sizes 3/8", 1/2", 3/4" ..... 3500 rpm
- Size 1" ..... 3000 rpm
- Size 1-1/4", 1-1/2" ..... 2500 rpm
- Size 2" ..... 750 rpm
- Max. Flow of Media 24 L / min

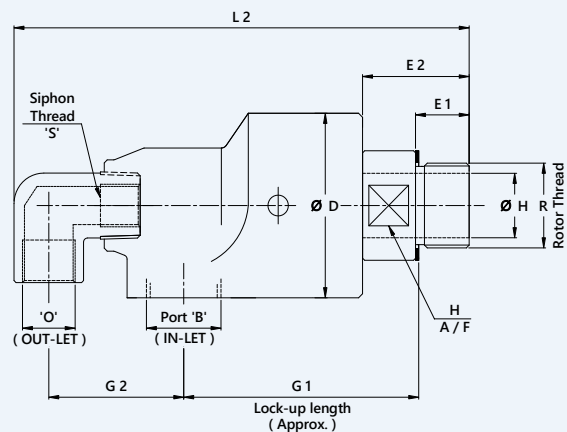
### Mono-flow & Duo-flow Design

Size DN 8 (1/4") to DN 50 (2")

#### Mono-flow Design



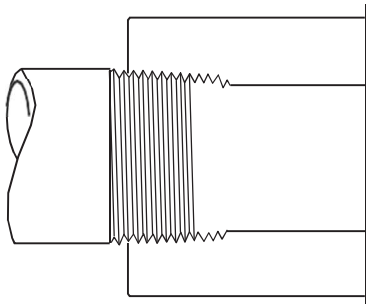
#### Duo-flow Design



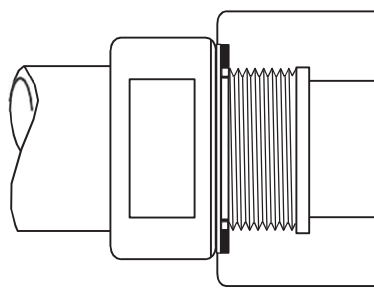
Size	Model No.		'B' Port Size	'R' Rotor Thread	'O' Outlet Thread	'S' Siphon Thread	Ø D	E 1	E 2	G 1 Lockup Approx.	G 2	Ø H	L 1	L 2	'P' Plug Thread
	Mono-flow	Duo-flow													
DN 8 3/4"	3100-108-21R	3100-208-21R	1/4"	G 1/4" BSP-RH	---	---	43.5	16	---	69.3	---	---	97.5	---	---
	3100-108-21L	3100-208-21L	1/4"	G 1/4" BSP-LH	---	---	43.5	16	---	69.3	---	---	97.5	---	---
DN 10 3/8"	3100-110-21R	3100-210-21R	3/8"	G 3/8" BSP-RH	1/4"	M 6 X 1	45	16.5	26	64.5	35	9.5	101.5	122.5	1/4"
	3100-110-21L	3100-210-21L	3/8"	G 3/8" BSP-LH	1/4"	M 6 X 1	45	16.5	26	64.5	35	9.5	101.5	122.5	1/4"
	3100-110-22R	3100-210-22R	3/8"	3/8" NPT-RH	1/4"	M 6 X 1	45	16.5	26	69.3	35	9.5	99.5	122.5	1/4"
	3100-110-22L	3100-210-22L	3/8"	3/8" NPT-LH	1/4"	M 6 X 1	45	16.5	26	69.3	35	9.5	99.5	122.5	1/4"
	3100-110-24R	3100-210-24R	3/8"	5/8"-18 UNF-RH	1/4"	---	45	16.5	26	64.5	35	9.5	99.5	122.5	1/4"
	3100-110-24L	3100-210-24L	3/8"	5/8"-18 UNF-LH	1/4"	---	45	16.5	26	64.5	35	9.5	99.5	122.5	1/4"
DN 15 1/2"	3100-115-21R	3100-215-21R	1/2"	G 1/2" BSP-RH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	148	3/8"
	3100-115-21L	3100-215-21L	1/2"	G 1/2" BSP-LH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	148	3/8"
	3100-115-22R	3100-215-22R	1/2"	1/2" NPT-RH	3/8"	G 1/8" BSP	57	22	35	90	38	12.7	121	148	3/8"
	3100-115-22L	3100-215-22L	1/2"	1/2" NPT-LH	3/8"	G 1/8" BSP	57	22	35	90	38	12.7	121	148	3/8"
	3100-115-24R	3100-215-24R	1/2"	3/4"-16 UNF-RH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	146	3/8"
	3100-115-24L	3100-215-24L	1/2"	3/4"-16 UNF-LH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	146	3/8"
	3100-115-23R	3100-215-23R	1/2"	M 22 X 1.5 RH	3/8"	G 1/8" BSP	57	20	37	80	38	12.7	120	146	3/8"
	3100-115-23L	3100-215-23L	1/2"	M 22 X 1.5 LH	3/8"	G 1/8" BSP	57	20	37	80	38	12.7	120	146	3/8"
DN 20 3/4"	3100-120-21R	3100-220-21R	3/4"	G 3/4" BSP-RH	1/2"	G 1/4" BSP	73	20	34	96	45	17.5	138	168	1/2"
	3100-120-21L	3100-220-21L	3/4"	G 3/4" BSP-LH	1/2"	G 1/4" BSP	73	20	34	96	45	17.5	138	168	1/2"
	3100-120-22R	3100-220-22R	3/4"	3/4" NPT-RH	1/2"	G 1/4" BSP	73	22	34	96	45	17.5	171	171	1/2"
	3100-120-22L	3100-220-22L	3/4"	3/4" NPT-LH	1/2"	G 1/4" BSP	73	22	34	96	45	17.5	171	171	1/2"
	3100-120-25R	3100-220-25R	3/4"	1"-14 UNS-RH	1/2"	G 1/4" BSP	73	20	34	104	45	17.5	138	198	1/2"
	3100-120-25L	3100-220-25L	3/4"	1"-14 UNS-LH	1/2"	G 1/4" BSP	73	20	34	104	45	17.5	138	168	1/2"
	3100-120-23R	3100-220-23R	3/4"	M 27 X 1.5 RH	1/2"	G 1/4" BSP	73	20	35	96	45	17.5	138	168	1/2"
	3100-120-23L	3100-220-23L	3/4"	M 27 X 1.5 LH	1/2"	G 1/4" BSP	73	20	35	96	45	17.5	138	168	1/2"
DN 25 1"	3100-125-21R	3100-225-21R	1"	G 1" BSP-RH	1/2"	G 3/8" BSP	83	22	42	109	59	25	165	203	3/4"
	3100-125-21L	3100-225-21L	1"	G 1" BSP-LH	1/2"	G 3/8" BSP	83	22	42	109	59	25	165	203	3/4"
	3100-125-22R	3100-225-22R	1"	1" NPT-RH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-22L	3100-225-22L	1"	1" NPT-LH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-24R	3100-225-24R	1"	1-1/2"-12 UNF-RH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-24L	3100-225-24L	1"	1-1/2"-12 UNF-LH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-23R	3100-225-23R	1"	M 35 X 1.5 RH	1/2"	G 3/8" BSP	83	30	36	121	59	25	173	211	3/4"
	3100-125-23L	3100-225-23L	1"	M 35 X 1.5 LH	1/2"	G 3/8" BSP	83	30	36	121	59	25	173	211	3/4"
DN 32 1-1/4"	3100-132-21R	3100-232-21R	1-1/4"	G 1-1/4" BSP-RH	3/4"	G 1/2" BSP	91	28	54	121	71	31.8	191	234	1"
	3100-132-21L	3100-232-21L	1-1/4"	G 1-1/4" BSP-LH	3/4"	G 1/2" BSP	91	28	54	121	71	31.8	191	234	1"
	3100-132-22R	3100-232-22R	1-1/4"	1-1/4" NPT-RH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	238	1"
	3100-132-22L	3100-232-22L	1-1/4"	1-1/4" NPT-LH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	238	1"
	3100-132-26R	3100-232-26R	1-1/4"	1-3/4"-12 UN-RH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	237	1"
	3100-132-26L	3100-232-26L	1-1/4"	1-3/4"-12 UN-LH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	237	1"
DN 40 1-1/2"	3100-140-21R	3100-240-21R	1-1/2"	G 1-1/2" BSP-RH	3/4"	G 3/4" BSP	108	30	72	149	78	38	225	268	1-1/4"
	3100-140-21L	3100-240-21L	1-1/2"	G 1-1/2" BSP-LH	3/4"	G 3/4" BSP	108	30	72	149	78	38	225	268	1-1/4"
	3100-140-22R	3100-240-22R	1-1/2"	1-1/2" NPT-RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	215	261	1-1/4"
	3100-140-22L	3100-240-22L	1-1/2"	1-1/2" NPT-LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	215	261	1-1/4"
	3100-140-26R	3100-240-26R	1-1/2"	2"-12 UN-RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3100-140-26L	3100-240-26L	1-1/2"	2"-12 UN-LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3100-140-23R	3100-240-23R	1-1/2"	M 50 X 1.5 RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3100-140-23L	3100-240-23L	1-1/2"	M 50 X 1.5 LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
DN 50 2"	3100-150-21R	3100-250-21R	2"	G 2" BSP	3/4"	G 1" BSP	117	30	65	166	78	47.6	246	289	1-1/4"
	3100-150-21L	3100-250-21L	2"	G 2" BSP	3/4"	G 1" BSP	117	30	65	166	78	47.6	246	289	1-1/4"
	3100-150-22R	3100-250-22R	2"	2" NPT	3/4"	G 1" BSP	117	40	65	181	78	47.6	257	300	1-1/4"
	3100-150-22L	3100-250-22L	2"	2" NPT	3/4"	G 1" BSP	117	40	65	181	78	47.6	257	300	1-1/4"

Subject to technical & dimensional changes without prior notice.

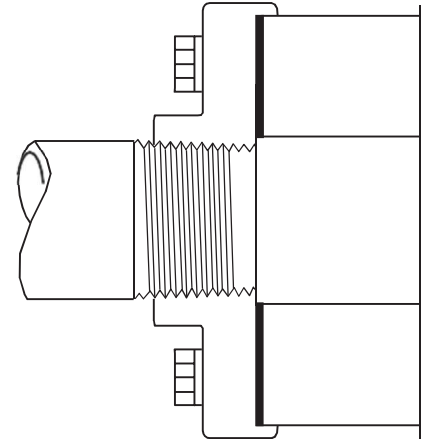
**FLUIDEN** rotary unions are attached to roll journals using threaded, flanged, or Quick-release flange



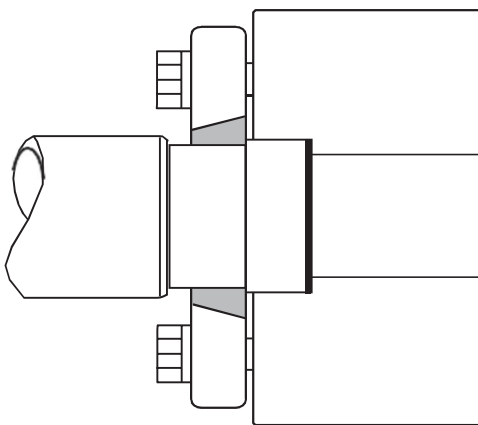
**NPT thread connection**



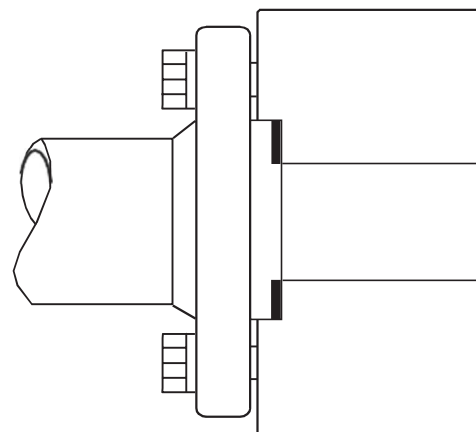
**BSP thread connection**



**Tapered thread with adaptor connection**



**Quick release flange connection**



**Integral flange connection**