

**Lovejoy / Sier-Bath Rigid Adjustable Couplings**

**RA and RAHS Type Rigid Adjustable Couplings**

The RA and RAHS couplings are offered in two different styles. Type II coupling consists of two rigid hubs, adjusting nut and split ring and split ring for motor hub. Type IV coupling consists of two rigid hubs, adjusting nut, split ring for motor hub and spacer.

**Features**

- Axial positioning of the pump impeller in vertical pump applications
- Clearance fit bores allows for easy installation and maintenance for pump and/or motor
- Easily adjustable for vertical clearance
- Removable spacer for easy maintenance
- AISI 1045 Steel
- Stainless Steel coupling also available



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**RA and RAHS Type Performance Data**

Size	HP/100 RPM	Nominal Torque in-lb	Thrust Capacity lbs	Motor & Pump Hubs		Motor & Pump Hubs	
				Min Bore		Max Bore	
				in	mm	in	mm
1125	2.7	1,702	4,500	0.44	11	1.125	29
1625	8.0	5,042	11,000	0.63	16	1.625	42
2125	17.9	11,282	31,000	0.73	18	2.125	56
2625	33.8	21,302	31,000	0.88	22	2.625	70
2875	44.4	27,983	31,000	0.88	22	2.875	77
3125	57.0	35,924	41,000	1.19	30	3.125	84
3875	109.0	68,697	73,000	1.25	31	3.875	103
5000	310.0	195,378	160,000	2.38	60	5.000	135
6000	404.0	254,621	300,000	2.88	73	6.000	167
7250	712.0	448,738	300,000	4.00	101	7.250	194
8500	1148.0	723,527	350,000	4.00	101	8.500	225
10500	2164.0	1,363,861	400,000	5.00	127	10.500	276

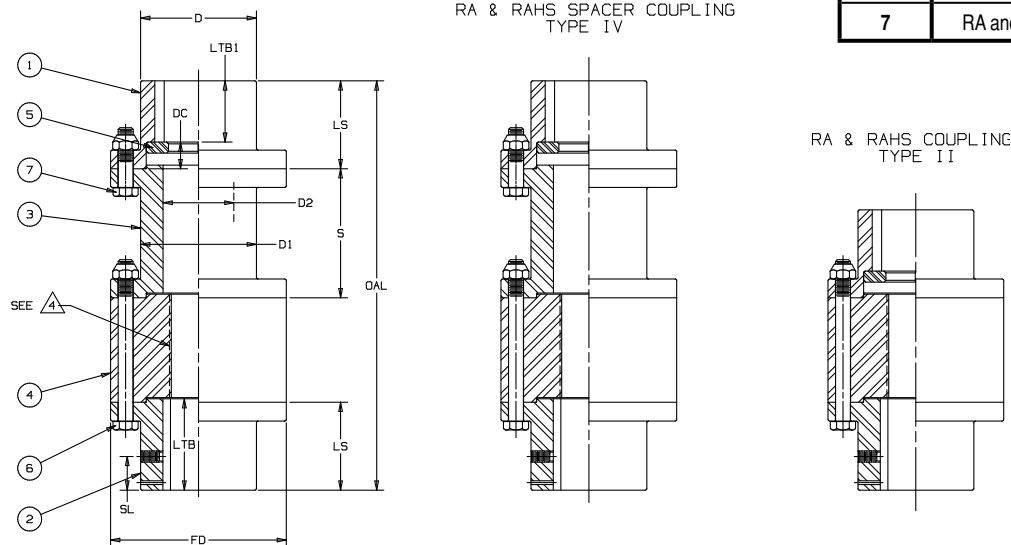
**Ordering Information**

- Application: Driver and Driven.
- Power: Motor horsepower or torque requirement.
- Speed: Motor Speed or Driven RPM.
- Distance between shaft ends (BSE).
- Shaft sizes.
- Adjusting nut threads.
- Amount of trust on either or both shafts.
- Submit drawing if available.

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Item	Description
1	Upper Hub - Motor
2	Lower hub - Pump
3	Spacer
4	Adjusting Nut, Threaded
5	Washer, Split
6	RA and RAHS Accessory Kit
7	RA and RAHS Accessory Kit



**RA and RAHS Type Dimensional Data**

Size	STD OAL		FD	D	LTB	LTB1	LS	DC	N	SL	D1	D2	S		BOLTS		B.C. Dia in
	Type II in	Type IV in											Std in	Min in	Qty	Size	
1125	5.25	9.56	3.00	1.75	2.13	1.11	2.00	0.89	1.25	0.88	1.75	1.25	4.44	1.63	4	1/4 - 28	2.375
1625	6.00	10.31	4.00	2.50	2.38	1.36	2.25	0.89	1.50	0.88	2.50	1.75	4.44	1.75	6	5/16 - 24	3.250
2125	7.13	11.44	5.13	3.13	2.81	1.80	2.69	0.89	1.75	1.00	3.13	2.25	4.44	2.63	6	1/2 - 20	4.250
2625	9.38	13.69	5.88	3.88	3.06	2.05	2.94	0.89	3.50	1.13	3.88	2.75	4.44	2.63	6	1/2 - 20	4.938
2875	10.38	14.69	6.38	4.38	3.56	2.55	3.44	0.89	3.50	1.38	4.38	3.00	4.44	2.88	6	1/2 - 20	5.438
3125	11.50	15.81	6.75	4.63	4.13	3.11	4.00	0.89	3.50	1.63	4.63	3.25	4.44	2.88	8	1/2 - 20	5.813
3875	12.75	17.06	8.94	5.88	4.50	3.48	4.38	0.89	4.00	1.75	5.88	4.00	4.44	3.13	6	3/4 - 16	7.625
5000	15.00	NO STD	11.75	7.50	6.25	4.63	6.00	1.38	3.00	2.44	7.50	5.13	NO STD	4.50	8	1 - 14	10.000
6000	20.88	NO STD	13.25	9.00	9.50	7.63	9.25	1.63	2.38	4.00	9.00	6.13	NO STD	4.75	10	1 - 14	11.500
7250	25.19	NO STD	15.00	10.75	11.06	8.81	10.75	1.94	3.69	4.75	10.75	7.38	NO STD	7.06	14	1 - 14	13.250
7500	33.56	NO STD	17.25	12.50	15.31	13.06	15.00	1.94	3.56	6.63	12.50	8.63	NO STD	7.31	12	1-1/8 - 12	15.000
10500	40.94	NO STD	20.50	15.00	18.69	16.44	18.38	1.94	4.19	8.13	15.00	10.63	NO STD	8.31	12	1-1/8 - 12	18.000

- Notes:
- Clearance fit bores with set screw are standard.
  - RA couplings meet standard tolerances.
  - Inch bore and keyway tolerances conform to AINSI / AGMA 9002-B04.
  - For metric bore and keyway tolerances, consult Lovejoy Engineering Section.
  - RAHS couplings conform to API 610 8th edition tolerances.