

## Flexible Membrane Couplings - Rivetted Series

### Materials & Finishes

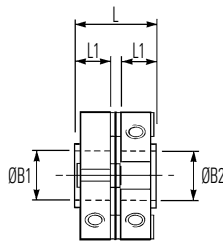
- Hubs & spacer:** Al. Alloy 2014 T6 or 6026 LF  
Clear anodised finish
- Membranes:** Spring quality stainless steel  
Heat treated
- Rivet assembly:** Brass rivets flanked by formed steel washers  
Steel, zinc plate & colour passivate
- Fasteners:** Alloy steel, black oiled



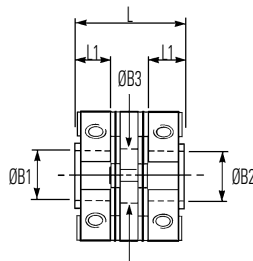
### Temperature Range

-40°C to +120°C

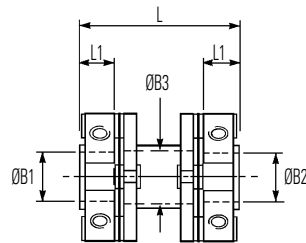
### Set screw hubs



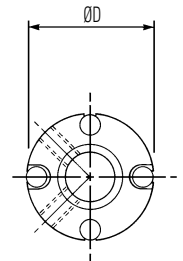
**Ref. 460**  
for use in pairs or with floating shafts



**Ref. 464**  
for precisely aligned shafts

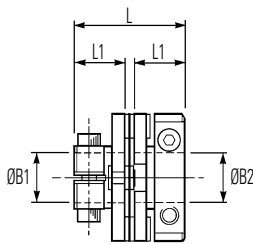


**Ref. 468**  
for greater radial misalignment and lower bearing loads

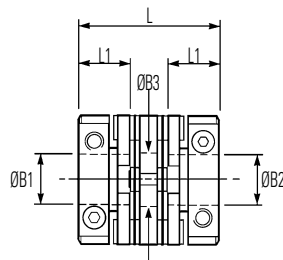


**Typical**

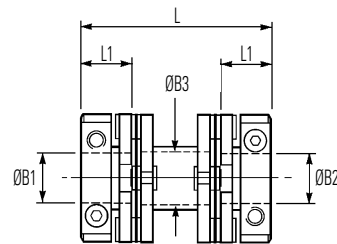
### Clamp hubs



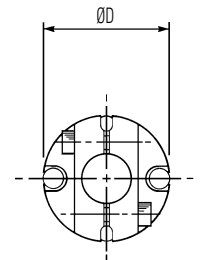
**Ref. 462**  
for use in pairs or with floating shafts



**Ref. 466**  
for precisely aligned shafts

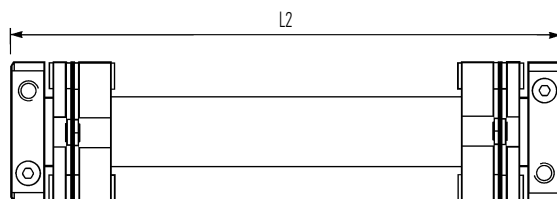


**Ref. 470**  
for greater radial misalignment and lower bearing loads



**Typical**

### Drive shafts



Unless specified otherwise, drive shafts are supplied with set screw hubs inboard.

#### Drive shafts are supplied to order.

Please specify:

- Coupling size
- Hub style and bore diameter at each end
- Keyway details
- Overall length L2
- Minimum torsional stiffness, if critical
- Quantity

## Flexible Membrane Couplings - Rivetted Series

### DIMENSIONS & ORDER CODES

Coupling Size	Set Screw Hubs	Clamp Hubs	ØD mm	L mm	① L1 mm	ØB1, ØB2 max mm	② ØB3 mm	Fasteners			④ Moment of inertia kgm <sup>2</sup> x 10 <sup>-8</sup>	④ Mass kg x 10 <sup>-3</sup>
								Screw	③ Torque Nm	Wrench mm		
19	460.19	—	19.2	13.0	5.6	6.35	N/A	M3	0.9	1.5	30	7
	464.19	—		19.6			7.3				50	10
	468.19	—		27.3			N/A				60	12
	—	462.19		20.2	7.3		M2.5	1.3	2	40	9	
	—	466.19		26.8						60	13	
	—	470.19		34.5						60	14	
26	460.26	—	25.6	15.8	6.9	10	N/A	M4	2.2	2	120	15
	464.26	—		22.4			11.0				160	18
	468.26	—		30.1			N/A				200	23
	—	462.26		21.8	11.0		M2.5	1.3	2	130	16	
	—	466.26		28.4						160	20	
	—	470.26		36.1						210	25	
33	460.33	—	33.5	22.5	10.0	12.7	N/A	M5	4.6	2.5	560	37
	464.33	—		32.1			14.1				800	52
	468.33	—		42.8			N/A				830	55
	—	462.33		30.5	14.1		M3	2.4	2.5	520	37	
	—	466.33		40.1						730	51	
	—	470.33		50.8						760	55	
41	460.41	—	41.5	27.1	12.0	16	N/A	M6	7.6	3	1540	69
	464.41	—		38.5			17.5				2250	97
	468.41	—		50.1			N/A				2450	107
	—	462.41		37.1	17.5		M4	5.6	3	1530	72	
	—	466.41		48.5						2220	100	
	—	470.41		60.1						2370	109	

### IMPORTANT

Load capacity depends on application conditions: **see page 4** for details

### PERFORMANCE

Coupling Size	Ref.	⑤ Peak torque Nm	⑦ Max compensation			⑦ Flexural stiffness			
			Angular deg	Radial mm	Axial ±mm	Torsional Nm / rad	Angular N / deg	Radial N / mm	Axial N / mm
19	460 & 462	0.9	2	0	0.1	220	0.4	—	—
	464 & 466		4	0.2	0.2	150	0.25	14	< 7
	468 & 470		4	0.4	0.2	145	0.3	4	—
26	460 & 462	2.3	2	0	0.1	585	0.75	—	—
	464 & 466		4	0.2	0.2	385	0.5	37	< 7
	468 & 470		4	0.4	0.2	400	0.4	7	—
33	460 & 462	5.6	1.5	0	0.1	1560	2	—	—
	464 & 466		3	0.2	0.1	935	1	48	< 8
	468 & 470		3	0.4	0.2	980	1.2	13	—
41	460 & 462	11.3	1	0	0.1	2710	4	—	—
	464 & 466		2	0.2	0.2	1980	2	100	< 8
	468 & 470		2	0.4	0.2	2020	2	25	—

- ① Length of supported thro' bore.
- ② Clearance bore thro' spacer.
- ③ Maximum recommended tightening torque.
- ④ Values apply with max bores.
- ⑤ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (**see page 4**)
- ⑥ Max. compensation values are mutually exclusive.
- ⑦ Torsional stiffness values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.  
**Note that in some vendors' catalogues the given torsional stiffness applies to the membrane stack only, giving rise to a greater value.**

### STANDARD BORES

Coupling Size	ØB1, ØB2 +0.03mm/-0mm (+0.0012/ -0)																	
	3	(1/8")	4	(3/16")	5	6	(1/4")	8	9	(3/8")	10	11	12	(1/2")	14	15	(5/8")	16
19	•	•	•	•	•	•	•											
26			•	•	•	•	•	•	•	•	•							
33						•	•	•	•	•	•	<b>S</b>	<b>S</b>	<b>S</b>				
41							•	•	•	•	•	•	•	•	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>
<b>Bore ref.</b>	14	16	18	19	20	22	24	28	30	31	32	33	35	36	38	40	41	42
<b>Corresponding bore adaptor</b>					251		253	255			257			259				260

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes. See page 58 for details of metal bore adaptors.

S = Plain bore only, types 462, 466 & 470, keyways not permissible sizes 19 & 26