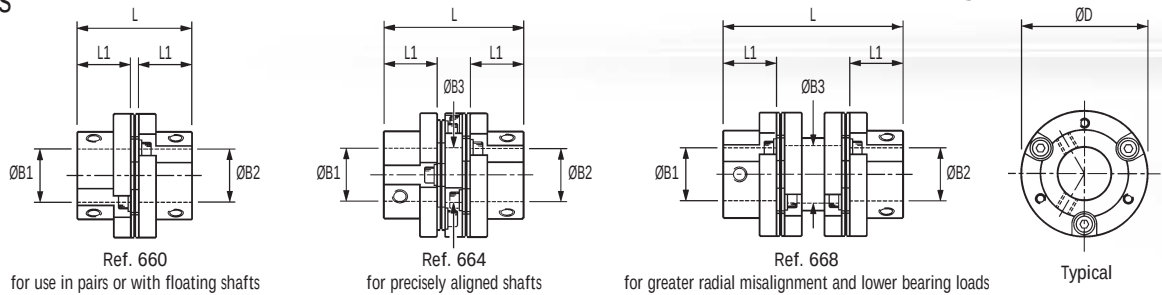
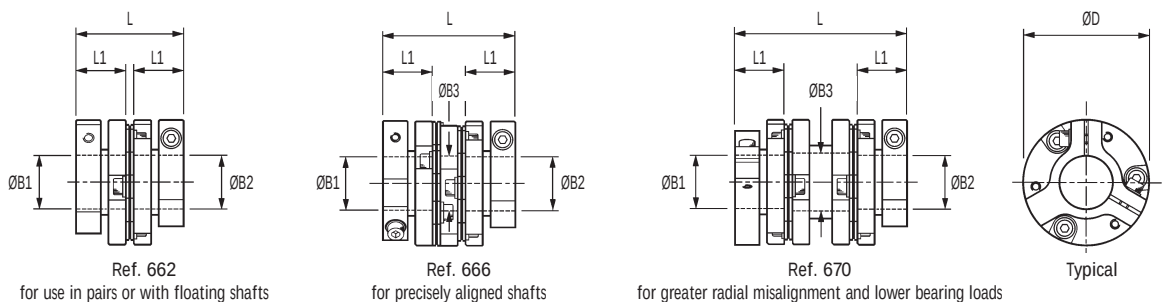




Set screw hubs



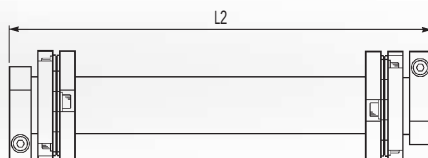
Clamp hubs



18

Drive shafts

Unless specified otherwise, drive shafts are supplied with set screw hubs inboard and/or bonded to link shaft.



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

Materials & Finishes

Hubs & spacer: Al. Alloy 2014A T6 or AIECO 62 Sn T9
BS 4300/5 FC1
Clear anodised finish

Membranes: Spring quality stainless steel
Heat treated

Bolt assembly: Bolt, alloy steel, black oiled finish
Bush assembly, steel, zinc plate & black chromate
Safety washer, carbon steel, black/brown oiled finish

Fasteners: Alloy steel, black oiled

Temperature Range

−40°C to +120°C

Flex - M Flexible Membrane Couplings - Bolted Series



DIMENSIONS & ORDER CODES

Coupling Size	Set Screw Hubs	Clamp Hubs	ØD	L	¹ L1	ØB1, ØB2 max	² ØB3	Fasteners			⁴ Moment of inertia kgm ² x 10 ⁻⁸	⁴ Mass kg x 10 ⁻³		
								Screw	³ Torque Nm	Wrench mm				
	COUPLING REF													
41	660.41	=	41.5	36.9	17.1	16	N/A	M6	7.60	3	1160	63		
	664.41	-		47.9			16.8				1680	90		
	668.41	-		59.7			17.5				1790	101		
	-	662.41		36.9			N/A	M4	5.66	3	1400	74		
	-	666.41		47.9			16.8				2010	101		
	-	670.41		59.7			17.5				2250	112		
52	660.52	-	52.0	44.2	20.0	20	N/A	M6	7.60	3	3740	124		
	664.52	-		55.0			22.0				5490	168		
	668.52	-		72.4			N/A				6840	208		
	-	662.52		50.0			22.9		N/A	M5	11.4	4	5660	164
	-	666.52		60.8					22.0				7470	208
	-	670.52		78.1					22.0				8870	247
66	660.66	-	66.0	60.4	28.0	28	N/A	M8	18.3	4	13370	272		
	664.66	-		73.6			28.7				18040	360		
	668.66	-		94.7			30.2				23400	447		
	-	662.66		56.4			26.0		N/A	M5	11.4	4	14200	269
	-	666.66		69.6					28.7				19300	357
	-	670.66		90.7					30.2				24320	444

IMPORTANT

Load capacity depends on application conditions: see page 6 for details

PERFORMANCE

Coupling Size	Ref.	⁵ Peak torque Nm	⁶ Max compensation			⁷ Flexural stiffness			
			Angular	Radial	Axial	Torsional Nm / rad x 10 ³	Angular	Radial	Axial
			deg	mm	± mm	N / deg	N / mm	N / mm	N / mm
41	660 & 662	11.3	1	0	0.1	4.0	3.7	-	< 8
	664 & 666		2	0.2	0.2	2.8	1.6	97	
	668 & 670		2	0.4	0.2	2.6	1.6	23	
52	660 & 662	30	1	0	0.1	7.5	10.0	-	< 9
	664 & 666		2	0.2	0.2	4.8	5.0	313	
	668 & 670		2	0.4	0.2	4.8	5.0	57	
66	660 & 662	60	1	0	0.1	19.0	84.0	-	< 9
	664 & 666		2	0.2	0.2	12.0	23.0	379	
	668 & 670		2	0.4	0.2	12.0	23.0	93	

- Length of supported thro' bore.
- Clearance bore thro' spacer.
- Maximum recommended tightening torque.
- Values apply with max bores.
- Peak torque. Select a size where Peak Torque exceeds the application torque x service factor. (see page 6)
- Max. compensation values are mutually exclusive.
- 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.

Note that the drawings on the facing page represent Size 66 which employ 6-bolt membrane attachment and have 3-lobed clamp hubs.

Sizes 41 & 52 employ 4-bolts and have clamp hubs similar to those of the rivetted series

STANDARD BORES⁸

Coupling Size	ØB1, ØB2 +0.03/-0mm																			
	6.350	8	9	9.525	10	11	12	12.700	14	15	15.875	16	18	19	19.050	20	24	25	25.400	28
41	●	●	●	●	●	●	●	●	●	●	●	●								
52		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
66							●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	24	28	30	31	32	33	35	36	38	40	41	42	45	46	47	48	51	52	53	54
Corresponding bore adaptor	253	255			257			259				260				261			262	263

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes. See page 56 for details of metallic and electrically insulating adaptors.