

Couplings

Material

6-Beam (Non-Relieved)

Stainless Steel



Materials & Finishes

Couplings: *Stainless Steel 303 S31*

Fasteners: *Stainless Steel*

General description

General purpose single piece couplings.

6 Beam couplings are available in three standard materials: Stainless Steel, Aluminium and Acetal.

Where to use

Stepper and servo drives, encoders, general purpose light duty power transmission applications.

Speeds

Up to 5000 rpm in standard form.

Peak torque largest size

140 Nm

Temperature range

-40 °C to +140 °C

Electrically isolating

Aluminium	}	No
Stainless Steel		Yes
Acetal		

Connection

Clamp or Set Screw

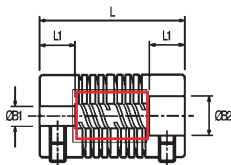
Standard Bores

Bore Size Coupling Size	ØB1, ØB2 + 0.03 / - 0 mm													
	2	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.7	
9	●	●	●	●	●									
13		●	●	●	●	●	●	●						
16		●	●	●	●	●	●	●	●					
19					●	●	●	●	●	●	●			
25						●	●	●	●	●	●	●	●	●
32									●	●	●	●	●	●
38									●	●	●	●	●	●
44										●	●	●	●	●
51											●	●	●	●
57												●	●	●
64													●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	

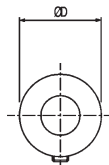
● B1 only

● B1 & B2

Set screw hubs

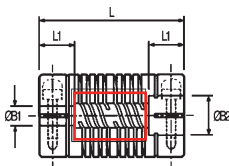


Ref. HPC702 6-Beam Non-Relieved

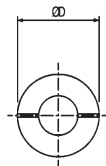


Typical

Clamp hubs



Ref. HPC703 6-Beam Non-Relieved



Typical

Coupling Size	Bore Size													
	ØB1, ØB2 + 0.03 / - 0 mm													
	14	15.88	16	18	19	19.05	20	24	25	25.4	28	30	31.75	32
9														
13														
16														
19														
25														
32	●	●	●											
38	●	●	●	●	●	●	●							
44	●	●	●	●	●	●	●	●	●					
51	●	●	●	●	●	●	●	●	●	●	●			
57	●	●	●	●	●	●	●	●	●	●	●	●	●	●
64	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	38	41	42	45	46	47	48	51	52	53	54	56	57	58

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Dimensions & Order Codes

Couplings 6-Beam (Non-Relieved)

PART NUMBER		Coupling Type & Size	ØD	L	L1	Bore Diameters		
Set Screw Style	Clamp Style					Min B1	Min B2	Max B1 & B2
HPC702.09.....	-	09	9.5	19.6	5.3	2.0	4.0	4.76
-	HPC703.09.....							
HPC702.13.....	-	13	12.7	25.4	6.5	3.0	5.0	6.35
-	HPC703.13.....							
HPC702.16.....	-	16	15.9	25.4	6.5	3.0	6.0	8.0
-	HPC703.16.....							
HPC702.19.....	-	19	19.1	28.0	6.5	4.76	6.35	10.0
-	HPC703.19.....							
HPC702.25.....	-	25	25.4	38.1	11.0	5.0	8.0	12.7
-	HPC703.25.....							
HPC702.32.....	-	32	31.8	57.2	16.0	8.0	10.0	19.0
-	HPC703.32.....							16.0
HPC702.38.....	-	38	38.1	66.7	18.0	8.0	12.0	22.0
-	HPC703.38.....							19.0
HPC702.44.....	-	44	44.5	76.2	20.0	9.0	14.0	25.0
-	HPC703.44.....							22.0
HPC702.51.....	-	51	50.8	95.3	25.0	10.0	16.0	28.0
-	HPC703.51.....							26.0
HPC702.57.....	-	57	57.2	130.0	32.0	10.0	20.0	32.0
-	HPC703.57.....							30.0
HPC702.64.....	-	64	63.5	150.0	38.0	12.0	25.0	38.0
-	HPC703.64.....							36.0

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.38 & 3.39).

Please identify both bores to complete the part number eg. HPC702.09. 11 19

Part Number ØB1 ØB2



DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Set Screw	Cap Screw	② Angular	② Parallel	③ Peak	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs			Offset Deg.	Offset mm	Torque Nm	
HPC702.09.----	-	M2.5	M1.6	3	0.12	1.5	£47.61
-	HPC703.09.----						£68.03
HPC702.13.----	-	M3	M2	5	0.17	3.0	£47.61
-	HPC703.13.----						£57.48
HPC702.16.----	-	M4	M2.5	5	0.2	5.0	£52.38
-	HPC703.16.----						£72.94
HPC702.19.----	-	M4	M2.5	7	0.25	8.0	£59.56
-	HPC703.19.----						£67.50
HPC702.25.----	-	M5	M3	7	0.38	16.0	£85.80
-	HPC703.25.----						£100.59
HPC702.32.----	-	M6	M4	7	0.5	25.0	£129.66
-	HPC703.32.----						£162.07
HPC702.38.----	-	M6	M5	7	0.6	36.0	£126.30
-	HPC703.38.----						£169.95
HPC702.44.----	-	M6	M5	7	0.8	48.0	£200.40
-	HPC703.44.----						£280.67
HPC702.51.----	-	M8	M6	7	0.9	73.0	£218.68
-	HPC703.51.----						£293.31
HPC702.57.----	-	M8	M6	7	0.95	102.0	£287.98
-	HPC703.57.----						£529.37
HPC702.64.----	-	M8	M8	7	1.0	140.0	£423.51
-	HPC703.64.----						£635.26

- ① Length of supported bore.
- ② Max. compensation values are mutually exclusive.
- ③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.

6-beam couplings

If either shaft extends beneath the beams, the area outlined in red must be relieved to provide clearance under the flexure (see page 3.39).

Please contact our sales department for a quotation.

