

FRC couplings

With a higher load capacity than jaw couplings and maintenance-free operation, FRC couplings are designed as a general purpose coupling. They are able to cushion moderate shock loads, dampen low levels of vibration and accommodate incidental misalignment. FRC couplings offer a range of hub and element selection to meet the demand for low cost, general purpose flexible coupling.

FRC couplings are phosphate coated for improved corrosion resistance and available with fire-resistant and anti-static elements (FRAS). FRC couplings are available with a pilot bore, finished bore or tapered bushing (face or hub) to make installation quick and simple.

Fully machined outside surfaces allow alignment with a simple straight edge. Shaft connections are fail safe due to their interlocking jaw design.

Assembled coupling characteristics

Size	Assembled length comprising flange types			Mass	Inertia	Torsional stiffness	Misalignment			Nominal torque	Max torque
	FF,FH,HH	FB,HB	BB				Angular	Parallel	Axial		
–	mm			kg	kg/m ²	Nm/°	°	mm	Nm		
70	65,0	65,0	65,0	1,00	0,00085	–	1	0,3	0,2	31,5	72
90	69,5	76,0	82,5	1,17	0,00115	–	1	0,3	0,5	80,0	180
110	82,0	100,5	119,0	5,00	0,004	65	1	0,3	0,6	160,0	360
130	89,0	110,0	131,0	5,46	0,0078	130	1	0,4	0,8	315,0	720
150	107,0	129,5	152,0	7,11	0,0181	175	1	0,4	0,9	600,0	1 500
180	142,0	165,5	189,0	16,60	0,0434	229	1	0,4	1,1	950,0	2 350
230	164,5	202,0	239,5	26,00	0,1207	587	1	0,5	1,3	2 000,0	5 000
280	207,5	246,5	285,5	50,00	0,4465	1 025	1	0,5	1,7	3 150,0	7 200

Mass is for an FF, FH or HH coupling with mid range taper bushes.

Order data

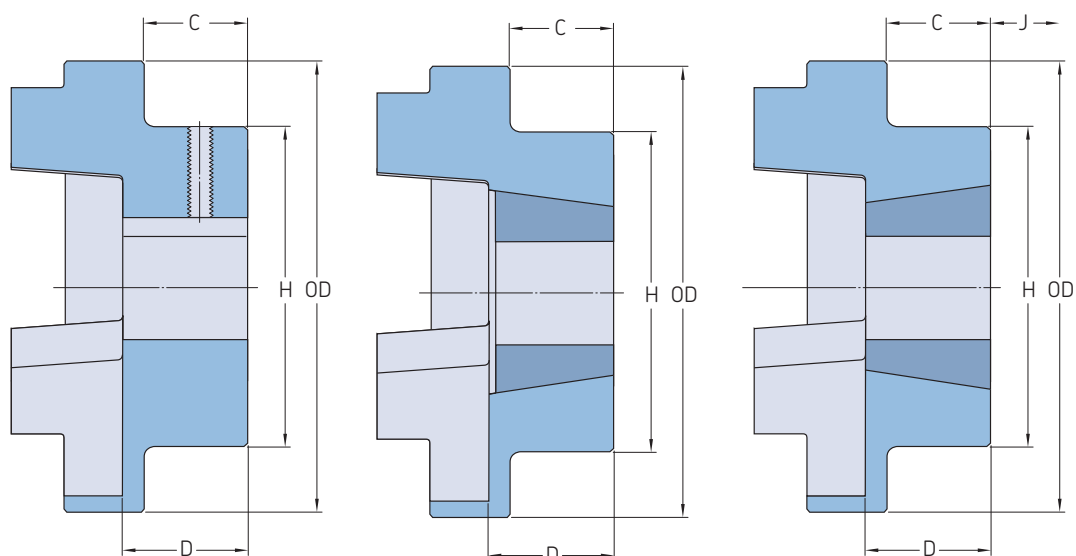
Coupling type	Flanges	Qty	Element	Qty	Taper bush	Qty
RSB both sides	PHE FRC70RSB	2	PHE FRC70NR or PHE FRC70FR	1	–	–
	–	–	–	–	–	–
RSB/F Combination	PHE FRC70RSB	1	PHE FRC70NR or PHE FRC70FR	1	PHF TB1008X...MM	1
	PHE FRC70FTB	1	–	–	–	1
RSB/H Combination	PHE FRC70RSB	1	PHE FRC70NR or PHE FRC70FR	1	PHF TB1008X...MM	1
	PHE FRC70HTB	1	–	–	–	1
F/F Combination	PHE FRC70FTB	1	PHE FRC70NR or PHE FRC70FR	1	PHF TB1008X...MM	1
	PHE FRC70FTB	1	–	–	PHF TB1008X...MM	1
H/H Combination	PHE FRC70HTB	1	PHE FRC70NR or PHE FRC70FR	1	PHF TB1008X...MM	1
	PHE FRC70HTB	1	–	–	PHF TB1008X...MM	1
F/H Combination	PHE FRC70FTB	1	PHE FRC70NR or PHE FRC70FR	1	PHF TB1008X...MM	1
	PHE FRC70HTB	1	–	–	PHF TB1008X...MM	1

NR = Natural rubber

FR = Fire-resistant and anti-static (FRAS)

A complete FRC coupling consists of: 2 hubs and 1 element.

FRC couplings



Type B

Type F

Type H

Coupling size	Dimensions		Bushing number Type F, H	Bore		C	D	J*	Type B Bore Max.	Bore Pilot	Key screw	C	D
	OD	H		Min.	Max.								
–	mm												
70	69	60	1008	9	25	20,0	23,5	29	32	10	M6	20	25,8
90	85	70	1108	9	28	19,5	23,5	29	38	10	M6	26	30,0
110	112	100	1610	14	42	18,5	26,5	38	55	10	M10	37	45,3
130	130	105	1610	14	42	18,0	26,5	38	60	20	M10	39	47,5
150	150	115	2012	14	50	23,5	33,5	42	70	28	M10	46	60,0
180	180	125	2517	16	60	34,5	46,5	48	80	28	M10	58	70,0
230	225	155	3020	25	75	39,5	52,5	55	100	45	M12	77	90,0
280	275	206	3525	35	100	51,0	66,5	67	115	55	M16	90	105,5

* Clearance required for tightening/loosening the bushing on the shaft