

## 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 <sup>2</sup>	Nm/°	°	mm		Nm	
<b>70</b>	65,0	65,0	65,0	1,00	0,00085	–	1	0,3	0,2	31,5	72
<b>90</b>	69,5	76,0	82,5	1,17	0,00115	–	1	0,3	0,5	80,0	180
<b>110</b>	82,0	100,5	119,0	5,00	0,004	65	1	0,3	0,6	160,0	360
<b>130</b>	89,0	110,0	131,0	5,46	0,0078	130	1	0,4	0,8	315,0	720
<b>150</b>	107,0	129,5	152,0	7,11	0,0181	175	1	0,4	0,9	600,0	1 500
<b>180</b>	142,0	165,5	189,0	16,60	0,0434	229	1	0,4	1,1	950,0	2 350
<b>230</b>	164,5	202,0	239,5	26,00	0,1207	587	1	0,5	1,3	2 000,0	5 000
<b>280</b>	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

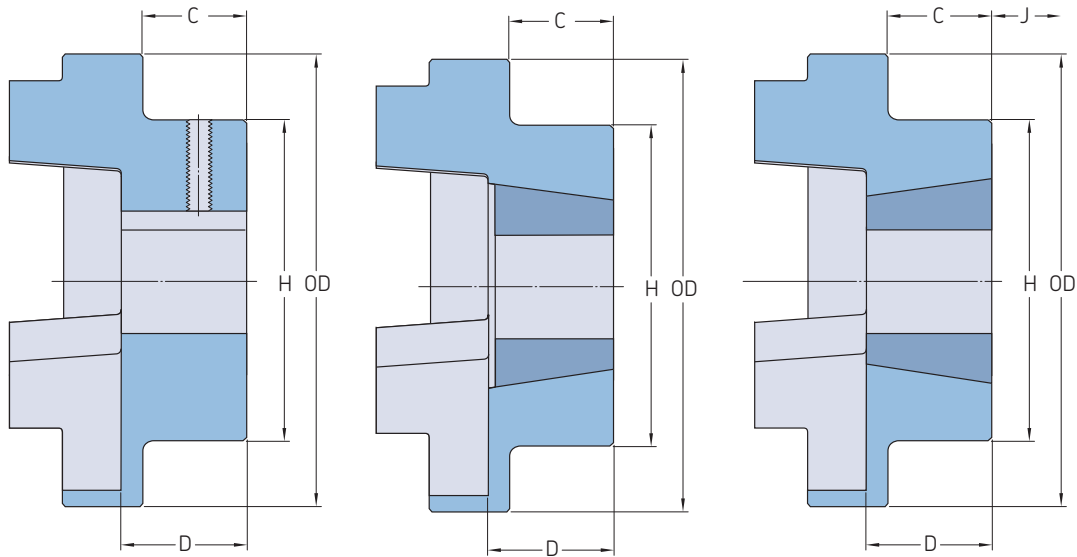
Coupling type	Flanges	Qty	Element	Qty	Taper bush	Qty
<b>RSB both sides</b>	PHE FRC70RSB –	2 –	PHE FRC70NR or PHE FRC70FR	1 –	– –	– –
<b>RSB/F Combination</b>	PHE FRC70RSB PHE FRC70FTB	1 1	PHE FRC70NR or PHE FRC70FR	1 –	PHF TB1008X...MM –	1 1
<b>RSB/H Combination</b>	PHE FRC70RSB PHE FRC70HTB	1 1	PHE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

NR = Natural rubber

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

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

# FRC couplings



Coupling size	Dimensions		Bushing number Type F, H	Bore		C	D	J <sup>1)</sup>	Type B	Bore	Key screw	C	D
	OD	H		Min.	Max.				Bore				
— mm													
<b>70</b>	69	60	1008	9	25	20,0	23,5	29	32	10	M6	20	25,8
<b>90</b>	85	70	1108	9	28	19,5	23,5	29	38	10	M6	26	30,0
<b>110</b>	112	100	1610	14	42	18,5	26,5	38	55	10	M10	37	45,3
<b>130</b>	130	105	1610	14	42	18,0	26,5	38	60	20	M10	39	47,5
<b>150</b>	150	115	2012	14	50	23,5	33,5	42	70	28	M10	46	60,0
<b>180</b>	180	125	2517	16	60	34,5	46,5	48	80	28	M10	58	70,0
<b>230</b>	225	155	3020	25	75	39,5	52,5	55	100	45	M12	77	90,0
<b>280</b>	275	206	3525	35	100	51,0	66,5	67	115	55	M16	90	105,5

<sup>1)</sup> Clearance required for tightening/loosening the bushing on the shaft