

F HRC Couplings

Salient Features

Economy: The design of the HRC coupling has been optimised so that power capacities are balanced to the appropriate shaft diameters utilising Taper-Lock® Bush fixing.

Resilience: Transient peak loads are reduced by flexible component, deflection of which is a prime design consideration.

Misalignment: Incidental parallel, angular and axial displacement of the connected shafts can be accommodated.

Installation: Quick and easy without special tools, only an allen key is required.

Maintenance : Virtually eliminated and no lubricant is required.

Environment: The elastomeric component makes HRC coupling suitable for use in most conditions within a temperature range of - 40°C to + 100°C.

Positive : In the unlikely event of the flexible component being destroyed, the drive will be maintained by the interaction of dogs which are integral with the flanges.



Table: 05-01 - Service Factors

| Special Cases | Types of Driving Unit | | | | | |
|---|-----------------------------------|------------------------|---------|---|------------------------|---------|
| | Electric Motors Steam Turbines | | | Internal Combustion Engines, Steam Engines Water Turbines | | |
| For applications where substantial shock, vibration and torque fluctuation occur and for reciprocating machines, e.g. internal combustion engines, piston type pumps and compressors, refer to Fenner with full machine details for torsional analysis. | Operational hours per day | | | | | |
| | 8 and under | Over 8 to 16 inclusive | Over 16 | 8 and under | Over 8 to 16 inclusive | Over 16 |
| Driven Machine Class | 8 and under | Over 8 to 16 inclusive | Over 16 | 8 and under | Over 8 to 16 inclusive | Over 16 |
| Uniform Agitators, Brewing Machinery, Centrifugal Blower and Compressors, Conveyors, Centrifugal Fans and Pumps, Generators, Sewage Disposal Equipment. | 1.00 | 1.12 | 1.25 | 1.25 | 1.40 | 1.60 |
| Moderate Shock* Clay working machinery, Cranes Hoist, Laundry machinery, Wood working machinery, Machinery Tools, Rotary Mills, Paper Mill machinery, Textile machinery. | 1.60 | 1.80 | 2.00 | 2.00 | 2.24 | 2.50 |
| Heavy Shock* Reciprocating conveyors, Crushers, Shakers, Metal Mills, Rubber machinery, (Banbury Mixers and Mills), Reciprocating compressors. | 2.50 | 2.80 | 3.12 | 3.12 | 3.55 | 4.00 |

* It is recommended that keys (with top clearance if in Taper Lock Bushes) are fitted for applications where load fluctuation is expected.

HRC Couplings

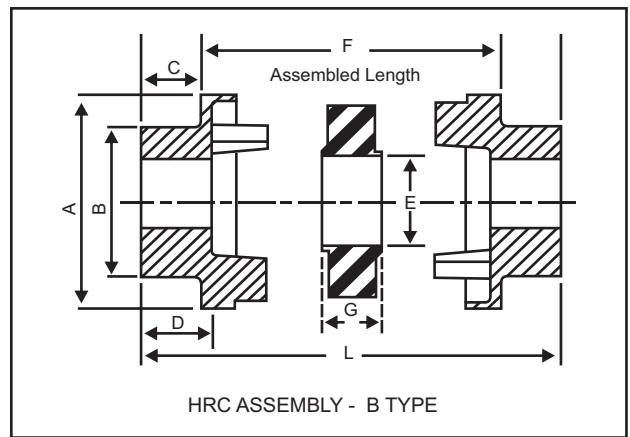
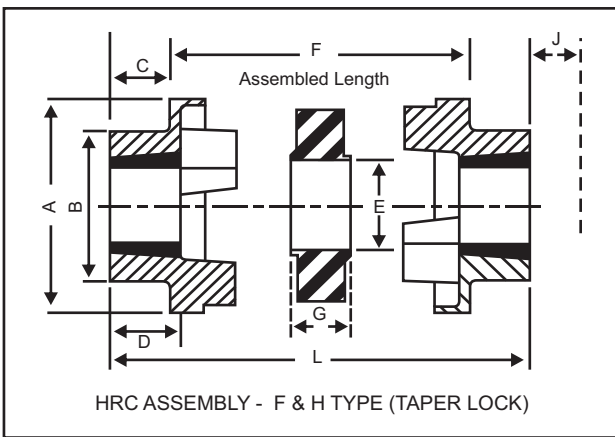
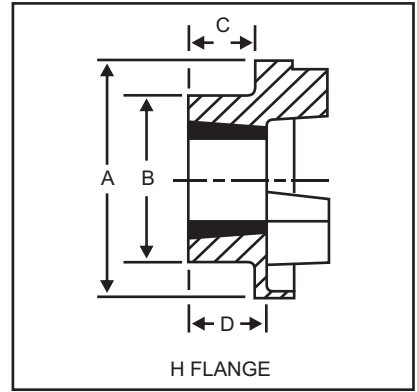
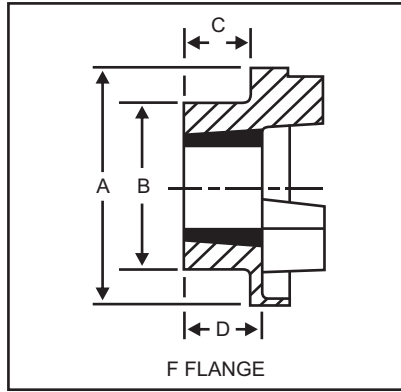
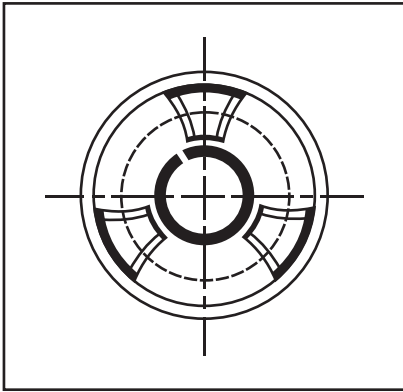


Table: 05-02 - Dimensions

| Size | Power at 100rpm kW | Type F & H | | | | | | | | Type B | | | | A | B | E | G | | |
|------|--------------------|------------|-----------|-----------|------|----|-------|-------|----|-----------|-----------|----|-----|-------|-------|-----|-----|-----|------|
| | | TLB Size | Min. Bore | Max. Bore | C | D | F | L | J* | Min. Bore | Max. Bore | C | D | | | | | F | L |
| 70 | 0.33 | 1008 | 09 | 25 | 20.0 | 24 | 26.0 | 66.0 | 29 | 10 | 32 | 20 | 24 | 26.0 | 66.0 | 69 | 60 | 31 | 18.0 |
| 90 | 0.84 | 1108 | 09 | 28 | 19.5 | 24 | 31.5 | 70.5 | 29 | 10 | 35 | 26 | 30 | 30.5 | 82.5 | 85 | 70 | 32 | 22.5 |
| 110 | 1.68 | 1210 | 11 | 32 | 18.5 | 27 | 46.0 | 83.0 | 38 | 10 | 55 | 37 | 45 | 45.0 | 119.0 | 112 | 100 | 45 | 29.0 |
| 110A | 1.68 | 1610 | 14 | 42 | 18.5 | 27 | 46.0 | 83.0 | 38 | - | - | - | - | - | - | 112 | 100 | 45 | 29.0 |
| 130 | 3.30 | 1610 | 14 | 42 | 18.0 | 27 | 54.0 | 90.0 | 38 | 14 | 60 | 47 | 56 | 54.0 | 148.0 | 130 | 105 | 50 | 36.0 |
| 150 | 6.28 | 2012 | 14 | 50 | 23.5 | 34 | 61.0 | 108.0 | 44 | 19 | 70 | 50 | 60 | 60.0 | 160.0 | 150 | 115 | 62 | 40.0 |
| 180 | 9.95 | 2517 | 16 | 60 | 34.5 | 47 | 74.0 | 143.0 | 48 | 35 | 80 | 58 | 70 | 73.0 | 189.0 | 180 | 125 | 77 | 49.0 |
| 230 | 20.90 | 3020 | 25 | 75 | 39.5 | 53 | 86.5 | 165.5 | 55 | 38 | 100 | 77 | 90 | 85.5 | 239.5 | 225 | 155 | 99 | 59.5 |
| 280 | 33.00 | 3525 | 35 | 90 | 51.0 | 67 | 106.5 | 208.5 | 67 | 48 | 115 | 90 | 105 | 104.5 | 284.5 | 275 | 206 | 119 | 74.5 |

* J - Wrench clearance to allow for tightening and loosening the bush on the shaft.