

Integral Flanges for Gear Rotor Sets

- ❖ Per API 613-5Pth edition para. 2.5.4.2: Unless otherwise specified, shafts shall be provided with integral flanges for couplings.



Justifications for incorporating integral flanges into API-613;

1. Eliminates the logistics required for the coordination, tracking and shipping of the ring gages to and from the gear manufacturer during the manufacturing process.
2. Reduces the potential for a manufacturing delay when the gages may not be readily available.
3. Reduces the overhung weight of the coupling providing a better rotor dynamic signature of the system. The flange can be brought in closer to the journal bearing allowing for less overhung weight.
4. Reduces the overall length of the coupling without sacrificing misalignment capability.
5. Can reduce the overall length of the main base skid as a result of the reduced coupling length with further cost savings.
6. The need to specify varying shaft end dimensions is eliminated since the flange end dimensions are defined by the coupling manufacturer.
7. Eliminates the need for additional hydraulic mounting equipment and fittings which may differ from the other hydraulic hubs in the system.
8. Integral flanges reduce shop and field labor time since the need to blue check and mount the hubs is eliminated.



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