

FALK TRUE TORQUE

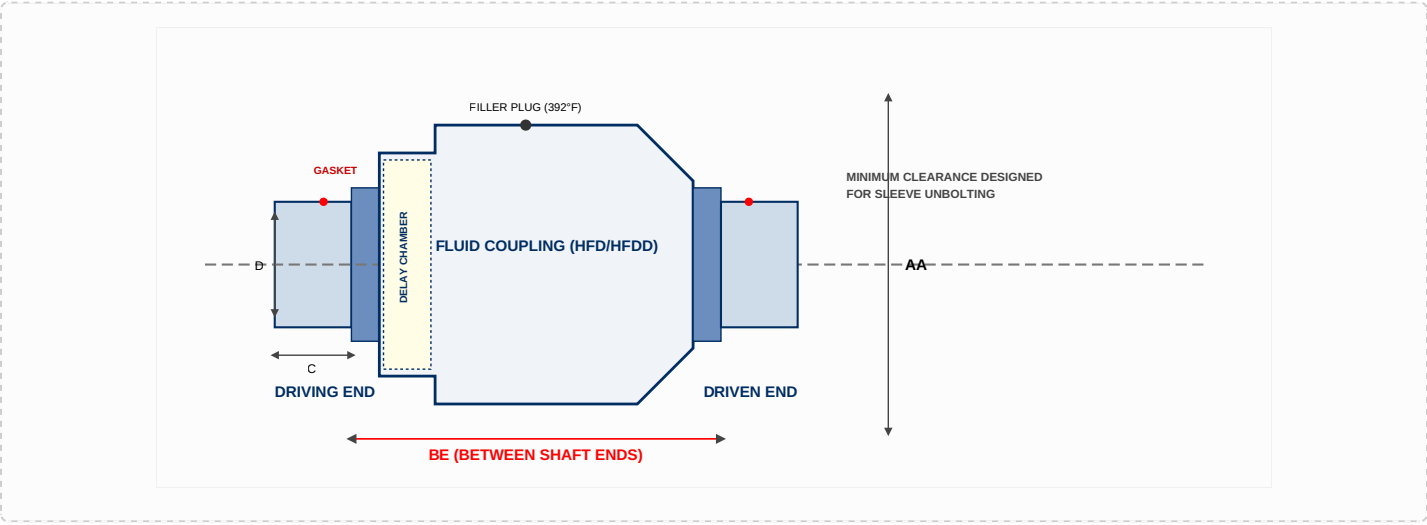
Fluid Couplings – HF20 Gear Coupling Mount (With Delay Fill Chamber)

The Falk True Torque Type HF20 gear coupling mount configuration features an advanced, integrated flex half of a Type G20 gear coupling (equipped with exposed bolts) positioned at both the input and output ends. Purpose-engineered for heavy-duty horizontal mounting configurations, this specific series incorporates a built-in internal ****Delay Fill Chamber**** designed to optimize smooth motor startup behavior and minimize inrush surge currents on high-inertia equipment. The robust Type G gear coupling hubs are machined with an interference fit profile and feature zero setscrews unless alternative parameters are detailed on order. Maintenance efficiency is prioritized: when gear coupling sleeves are unbolted and retracted, the fluid coupling dropped element drops cleanly down and out of alignment without requiring unmounting or shifting of the main connected driving/driven machine shafts.

AVAILABILITY MATRIX BY COUPLING SIZE & TYPE

Type	Description	370	1420	1480	1584	1660
HFD20	Standard Delay Fill Chamber	X	X	X	X	X
HFDD20	Extended Delay Fill Chamber	—	X	X	X	X
HFR20	Inactive Delay Fill Profile	X	X	X	X	X

HF20 DELAY FILL GEAR COUPLING ENGINEERING LAYOUT



* Sizes 1420 & Larger feature a multi-point precision Metering Orifice (3) equally spaced profile design layout.

TYPE HF20 PHYSICAL SPECIFICATIONS & DIMENSIONAL MATRIX

CPLG SIZE ①	Cplg Weight lb No Bore & w/o Fluid		Allow Speed RPM	Dimensions — Inches									BE Dimension		Maximum Bore ②			Lube Wt per Gear Cplg Half (lb)	WR² (lb-in²) ③ — Input		WR² (lb-in²) ③ Output	Fluid Weight @ Max Fill			
	HFD HFR	HFDD		A	C	D	F	H	J	M	AA	HFD HFR	HFDD	Shaft Coupling Type G20			HFD HFR		HFDD	HFD		HFDD	HFR	HFDD	
														Size	Square Key	Rect Key ④									
370HF	156	N/A	1800	7.00	2.44	4.14	4.98	0.75	2.34	4.30	16.73	12.69	N/A	1020	2.875	3.250	0.13	1,910	N/A	358	478	N/A	N/A	370HF	
1420HF	237	246	1800	8.38	3.03	5.14	6.10	0.86	2.82	4.30	18.70	14.38	17.49	1025	3.625	4.000	0.25	3,080	3,240	740	990	N/A	925	1420HF	
1480HF	340	353	1800	9.44	3.59	6.00	7.10	0.86	3.30	4.30	21.65	16.16	19.58	1030	4.125	4.750	0.40	5,700	6,030	1,550	1,980	N/A	1,950	1480HF	
1584HF	570	592	1500	11.00	4.19	7.00	8.32	1.12	3.84	5.10	26.38	18.00	21.82	1035	4.875	5.750	0.60	12,150	13,000	3,570	4,955	3,844	5,125	1584HF	
1660HF	815	844	1200	12.50	4.75	8.25	9.66	1.12	4.38	5.70	29.92	20.64	24.97	1040	5.750	6.500	1.00	22,900	24,400	6,210	9,225	8,167	9,570	1660HF	

① **Application Mounting Guidelines:** Fluid couplings are offered exclusively for horizontal mounting configurations as detailed. Please consult the Factory or your local Authorized India Partner for alternative vertical/custom mounting alignments. All listed dimensions represent engineering reference values only and are subject to physical design modifications without notice unless explicitly certified.

② **Hub Tolerances & Fit Criteria:** Type G gear coupling hubs are furnished with a strict average INTERFERENCE FIT of 0.0005" per inch of shaft diameter, without setscrew, unless alternative specification is submitted on order. Maximum bore capacity parameters are systematically REDUCED when an interference fit with a setscrew located directly over the keyway is utilized. Refer to publication 427-105 for comprehensive allowable bore sizing tables.

③ **Mass Moment Inertial Formulas:** Equivalent mass moment values shown apply strictly to the fluid coupling core sub-assembly equipped with integrated adapters (gear coupling flex halves and sleeve elements are not included). Refer to Page 29 engineering manuals for detailed fluid WR² multiplier coefficients for alternative than maximum fill operations.

④ **High-Capacity Custom Keyways:** To safely utilize these maximum recorded bores, a standard customer-furnished rectangular key must replace the generic square shaft key originally supplied. Always **CHECK MECHANICAL KEY STRESS BOUNDARIES** during calculating.

ENGINEERING DESK & CUSTOMER LOGISTICS

For specialized clearance fit modifications, exact matching teeth profile specifications, or prompt commercial quote routing, interface directly with the centralized industrial fluid power support division at **Jinharsh Industrial Solutions Private Limited**.