

HKFR Series

ISO 7241-1 BOP

Fluid transfer & Hydraulic application

Danfoss Hansen HKFR Series is a quick disconnect hydraulic coupling for hazardous Blow Out Preventer (BOP) service in the Oil and Gas Industry. The HKFR Series meets or exceeds the ISO 7241-1 B standard.



Product Features

- BOP designation and red color is marked on the Socket/Female and Plug/Male halves
- Sleeve lock is standard
- Lloyd's Register Certification
- Meets or exceeds ISO 7241-1 Series B standard
- Utilizes HK Series dust caps and dust plugs
- Standard body material: 316 stainless steel, zinc trivalent plated steel
- Standard seal material: Nitrile (NBR)

Physical Characteristics

Series	Body Size (in)	Max. Operating Pressure Connected		Min. Burst Pressure		Rated Flow		Fluid Loss cc. max
		(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	
4HKFR	1/2	482	7,000	1,931	28,000	28	7.5	3.5
6HKFR	3/4	344	5,000	1,251	18,150	66	17.5	9.3
8HKFR	1	344	5,000	1,379	20,000	95	25	16.9
ML8HKFR	1	344	5,000	1,379	20,000	95	25	16.9

Applications & Markets

- Oil and gas

Lloyd's Register Certification

All of the above items carry a Lloyd's Registry Certificate for fire conditions stated in API 16D and EUB Directive 36. These parts meet the requirements that state couplings shall be capable of maintaining pressure when exposed to a 700°C (1,300°F) temperature for a five-minute period. Testing for this certification was conducted at the following pressures in the connected condition:

4HFR26/4KFR26:	3,000 PSI/206 BAR
6HFR31/6KFR31:	3,000 PSI/206 BAR
8HFR36/8KFR36:	4,000 PSI/275 BAR
ML8HFR36/ML8KFR36:	4,000 PSI/275 BAR

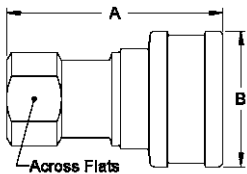


Figure 1

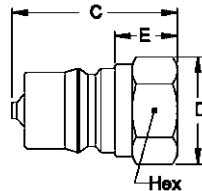


Figure 2

Female End Connections

Part Number	Coupling Type	Body Size	Thread	Fig.	Dimensions			A	B	Across Flats
					A	B	Across Flats			
					(in)	(in)	(in)	(mm)	(mm)	(mm)
4HFR26	Socket/Female	1/2	1/2-14 NPTF	1	2.96	1.86	1.13	75.2	47.2	28.7
6HFR31	Socket/Female	3/4	3/4-14 NPTF	1	3.48	2.22	1.31	88.4	56.4	33.3
8HFR36	Socket/Female	1	1-1 1/2 NPTF	1	4.13	2.61	1.75	104.9	66.3	44.5
ML8HFR36*	Socket/Female	1	1-1 1/2 NPTF	1	4.13	2.61	1.75	104.9	66.3	44.5

*Stainless Steel

Plugs/Males

Part Number	Coupling Type	Body Size	Thread	Fig.	Dimensions				C	D	E	Hex
					C	D	E	Hex				
					(in)	(in)	(in)	(in)	(mm)	(mm)	(mm)	(mm)
4KFR26	Plug/Male	1/2	1/2-14 NPTF	2	2.03	1.3	0.76	1.13	51.6	33.0	19.3	28.7
6KFR31	Plug/Male	3/4	3/4-14 NPTF	2	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
8KFR36	Plug/Male	1	1-1 1/2 NPTF	2	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
ML8KFR36*	Plug/Male	1	1-1 1/2 NPTF	2	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4

*Stainless Steel