

FD86 Series

Thread to Connect
5,000 psi Dry Break – High Impulse



The FD86 Series is a thread together steel quick coupling offering dry break and high impulse technology and capabilities. The maximum operating pressure is 5,000 psi. The FD86 Series is available in either wing nut or hex nut configurations for ease of assembly and disassembly. (For higher pressure applications and additional size requirements, refer to FD96 on page 42.)

Product Features

- Tubular valve and sleeve construction for low fluid loss and air inclusion
- Thread together design using wing or hex nut allows connection and disconnection against pressures up to 750 psi
- Teflon* back-up rings along with secondary metal-to-metal sealing contact provides high impulse capability up to 5,000 psi operating pressure
- Acme threads prevent galling and provide ease of connection
- Steel flange available for bulkhead mounting
- Standard seal material – Buna-N
- Standard body material – High resistance carbon steel with zinc trivalent plating

Physical Characteristics

Body Size	Max. Operating Pressure		Min. Burst Pressure		Vacuum Connected Only	Rated Flow		Air Inclusion	Fluid Loss
	bar	(psi)	bar	(psi)		L/min	(gpm)		
1	345	(5,000)	1,034	(15,000)	28	189	(50)	2.90	0.72
1/4	345	(5,000)	1,034	(15,000)	28	284	(75)	4.61	1.00



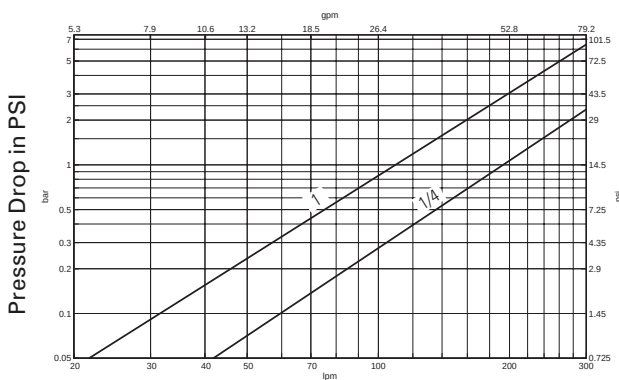
Applications

- Hydraulic and fluid transfer
- Mining equipment



Flow Data

Pressure Drop Versus Flow Graph



Gallons Per Minute Flow

Test Fluid: MIL-H-5606 Oil at 100°F

*Teflon is a registered trademark of Dupont.

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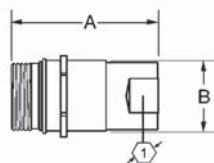


Figure 1

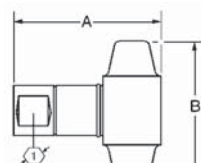


Figure 2

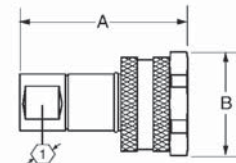


Figure 3

Dimensions (Female SAE O-ring)

Part Number	Buna-N	Viton	EPR	Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions	Hex ①
										A	B
										mm (in)	mm (in)
FD86-1008-16-16	FD86-1043-16-16	FD86-1053-16-16	Male	1	1 5/16	1 5/16 - 12	Female SAE O-ring	1		102.4 (4.03)	53.6 (2.11)
FD86-1010-16-16	FD86-1044-16-16	FD86-1054-16-16	Female	1	1 5/16	1 5/16 - 12	Female SAE O-ring	2		117.3 (4.62)	114.3 (4.50)
FD86-1006-16-16	FD86-1042-16-16	FD86-1052-16-16	Female	1	1 5/16	1 5/16 - 12	Female SAE O-ring	3		117.3 (4.62)	71.4 (2.81)
FD86-1008-20-20	FD86-1043-20-20	FD86-1053-20-20	Male	1 1/4	1 5/8	1 5/8 - 12	Female SAE O-ring	1		105.7 (4.16)	63.0 (2.48)
FD86-1010-20-20	FD86-1044-20-20	FD86-1054-20-20	Female	1 1/4	1 5/8	1 5/8 - 12	Female SAE O-ring	2		132.6 (5.22)	133.4 (5.25)
FD86-1006-20-20	FD86-1042-20-20	FD86-1052-20-20	Female	1 1/4	1 5/8	1 5/8 - 12	Female SAE O-ring	3		132.6 (5.22)	86.4 (3.40)

Dimensions (Female NPT)

Part Number	Buna-N	Viton	EPR	Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions	Hex ①
										A	B
										mm (in)	mm (in)
FD86-1002-16-16	FD86-1040-16-16	FD86-1050-16-16	Male	1	1 - 11 1/2	1 - 11 1/2	Female NPT	1		111.8 (4.40)	53.6 (2.11)
FD86-1001-16-16	FD86-1039-16-16	FD86-1049-16-16	Female	1	1 - 11 1/2	1 - 11 1/2	Female NPT	2		126.5 (4.98)	114.3 (4.50)
FD86-1004-16-16	FD86-1041-16-16	FD86-1051-16-16	Female	1	1 - 11 1/2	1 - 11 1/2	Female NPT	3		126.5 (4.98)	71.4 (2.81)
FD86-1002-20-20	FD86-1040-20-20	FD86-1050-20-20	Male	1 1/4	1 1/4 - 11 1/2	1 1/4 - 11 1/2	Female NPT	1		112.5 (4.43)	63.0 (2.48)
FD86-1001-20-20	FD86-1039-20-20	FD86-1049-20-20	Female	1 1/4	1 1/4 - 11 1/2	1 1/4 - 11 1/2	Female NPT	2		142.8 (5.62)	133.4 (5.25)
FD86-1004-20-20	FD86-1041-20-20	FD86-1051-20-20	Female	1 1/4	1 1/4 - 11 1/2	1 1/4 - 11 1/2	Female NPT	3		142.8 (5.62)	86.4 (3.40)

Repair Kits

Part Number	Buna-N	Viton	EPR	Body Size	Coupling Type
FF10596-16	FF10597-16	FF10598-16	1	Male	
FF10593-16	FF10594-16	FF10595-16	1	Female	
FF10596-20	FF10597-20	FF10598-20	1 1/4	Male	
FF10593-20	FF10594-20	FF10595-20	1 1/4	Female	

Dust Caps and Dust Plugs

Part Number		
Dust Cap with Chain	Dust Plug with Chain	Body Size
FD86-1018-16	FD86-1016-16	1
FD86-1018-20	FD86-1016-20	1 1/4



联系方式

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