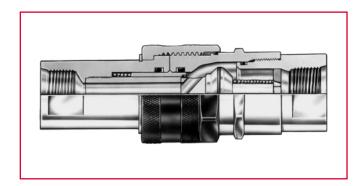




FD86 Series/5,000 PSI Dry Break—High Impulse

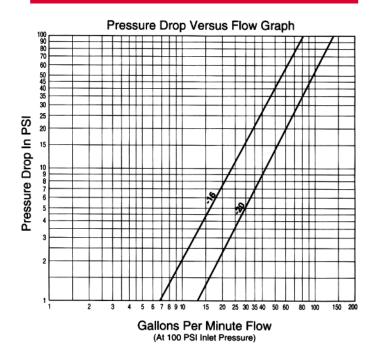




The FD86 Series is a thread together steel coupling offering Dry Break and high impulse technology and capabilities. The maximum operating pressure is 5,000 psi.

- 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. (5,000 psi if pressure is in female half only.)
- Teflon* back-up rings along with secondary metal-tometal sealing contact provides high impulse capability up to 5,000 psi operating pressure.
- Acme threads prevent galling and provide ease of connection.
- Metal-to-metal sealing withstands +2,000°F for ten minutes with no fluid loss (requirement in California for oil field blow-out preventers).
- Steel flange available for bulkhead mounting.
- Standard seal material Buna-N.
- Standard body material Zinc plated steel.

Flow Data



Physical Characteristics										
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max.)				
-16	5,000	15,000	28	50	2.90	.72				
-20	5,000	15,000	28	75	4.61	1.0				

^{*}Teflon is a registered trademark of Dupont.



FD86 Series	Coupling Size	Thread Size (P)	Dimensional Data		l Data	Part Number			
FD00 Series			Α	В	<u>(1)</u>	Buna-N	Viton	EPR	
Male Half	-16	15/16-12	4.03	2.11	1.75	FD86-1008-16-16	FD86-1043-16-16	FD86-1053-16-16	
Female SAE O-Ring	-20	15/8-12	4.16	2.48	2.25	FD86-1008-20-20	FD86-1043-20-20	FD86-1053-20-20	
### ### ### ##########################									
Familia Half	-16	15/16-12	4.62	4.50	1.62	FD86-1010-16-16	FD86-1044-16-16	FD86-1054-16-16	
Female Half Female SAE O-Ring/With Wing Nut	-20	15/8-12	5.22	5.25	2.00	FD86-1010-20-20	FD86-1044-20-20	FD86-1054-20-20	
A B B									
Complete Coupling	-16	1 ⁵ / ₁₆ -12	7.36			FD86-1007-16-16	FD86-1061-16-16	FD86-1057-16-16	
Female SAE O-Ring/With Wing Nut	-20	15/8-12	7.81			FD86-1007-20-20	FD86-1061-20-20	FD86-1057-20-20	
Female Half	-16	1 ⁵ / ₁₆ -12	4.62	2.81	1.62	FD86-1006-16-16	FD86-1042-16-16	FD86-1052-16-16	
Female SAE O-Ring/With Hex Nut	-20	15/8-12	5.22	3.40	2.00	FD86–1006–20–20	FD86-1042-20-20	FD86-1052-20-20	
P B									
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\									
	10	45/ 40	7.00			FD00 400F 40 40	FD00 4000 40 40	FD00 4050 40 40	
Complete Coupling	-16	15/16-12				FD86-1005-16-16			
Female SAE O-Ring/With Hex Nut	-20	1 ⁵ / ₈ -12	7.81			FD86-1005-20-20	FD86-1062-20-20	FD86–1058–20–20	



FD86 Series	Coupling Size	Thread Size(P)	Dimensional Data		Data	Part Number		
FDoo Series			Α	В	(1)	Buna-N	Viton	EPR
Male Half	-16	1-11 ¹ / ₂	4.40	2.11	1.75	FD86-1002-16-16	FD86-1040-16-16	FD86-1050-16-16
Female NPTF	-20	11/4-111/2	4.43	2.48	2.25	FD86-1002-20-20	FD86-1040-20-20	FD86-1050-20-20
A								
<u> </u>								
Female Half	-16	1-11 ¹ / ₂	4.98	4.50	1.62	FD86-1001-16-16	FD86-1039-16-16	FD86-1049-16-16
Female NPTF/With Wing Nut	-20	1 ¹ / ₄ -11 ¹ / ₂	5.62	5.25	2.00	FD86-1001-20-20	FD86-1039-20-20	FD86-1049-20-20
A								
P' $\overline{\chi}$								
Complete Coupling	-16	1-11 ¹ / ₂	8.09			FD86-1000-16-16	FD86-1059-16-16	FD86-1055-16-16
Female NPTF/With Wing Nut	-20	11/4-111/2	8.48			FD86-1000-20-20	FD86-1059-20-20	FD86-1055-20-20
Female Half	-16	1-11 ¹ / ₂	4.98	2.81	1.62	FD86-1004-16-16	FD86-1041-16-16	FD86-1051-16-16
Female NPTF/With Hex Nut	-20	11/4-111/2	5.62	3.40	2.00	FD86-1004-20-20	FD86-1041-20-20	FD86-1051-20-20
→ A -								
∞ -∞ 1								
Complete Coupling Female NPTF/With Hex Nut	-16	1-11 ¹ / ₂				FD86-1003-16-16	FD86-1060-16-16	FD86-1056-16-16
I emale INF 17/VVILLI FIEX INUL	-20	1 ¹ / ₄ -11 ¹ / ₂	8.48			FD86-1003-20-20	FD86-1060-20-20	FD86–1056–20–20
- A -								
<u> </u>								
D : 1/:-								
Repair Kit	NA 1 11 11							
	Male Half					FF10F00 10	FE40507 40	FF10F00 10
	-16					FF10596–16	FF10597-16	FF10598-16
	-20	16				FF10596–20	FF10597–20	FF10598–20
	Female H	ait				FF40F00 40	FF40F04 40	FF40F05 40
	-16					FF10593-16	FF10594-16	FF10595-16
	-20					FF10593–20	FF10594–20	FF10595–20



FD86 Series		Coupling	Dimensional Size		Part Number				
		Dash Size	A B		Dust Cap with Chain Dust Plug with Chain		6 Bolt Flange Assembly		
Accessories									
Dust Cap	Dust Cap With Chain Dust Plug With Chain	-16			FD86-1018-16	FD86-1016-16			
With Chain		-20			FD86-1018-20	FD86-1016-20			
6 Bolt Flange Assembly*		-16	.19	2.98			FD86-1035-16		
		-20	.19	3.50			FD86-1035-20		
A Dia. Bott Circle									

^{*6} Bolt Flange-holes equally spaced. (See "A" for bolt hole diameter, and "B" for bolt circle diameter.)



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