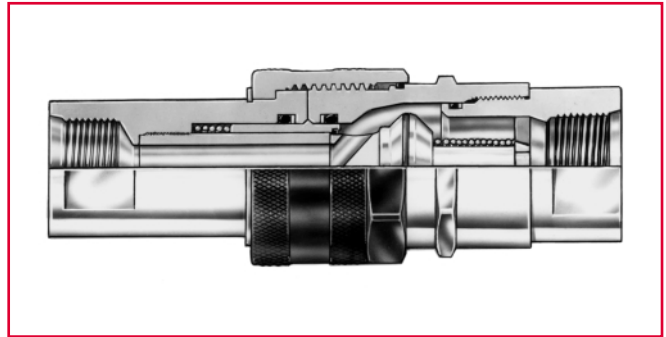
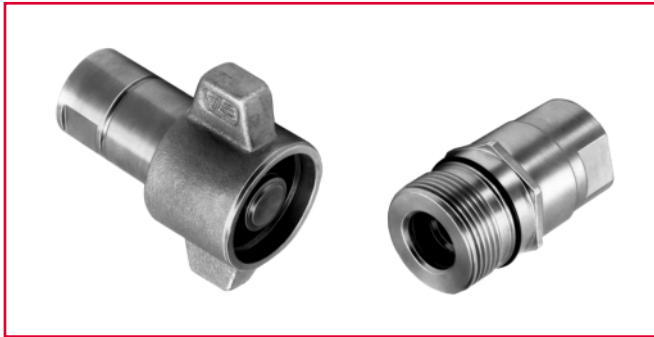


FD86 Series/5,000 PSI Dry Break—High Impulse

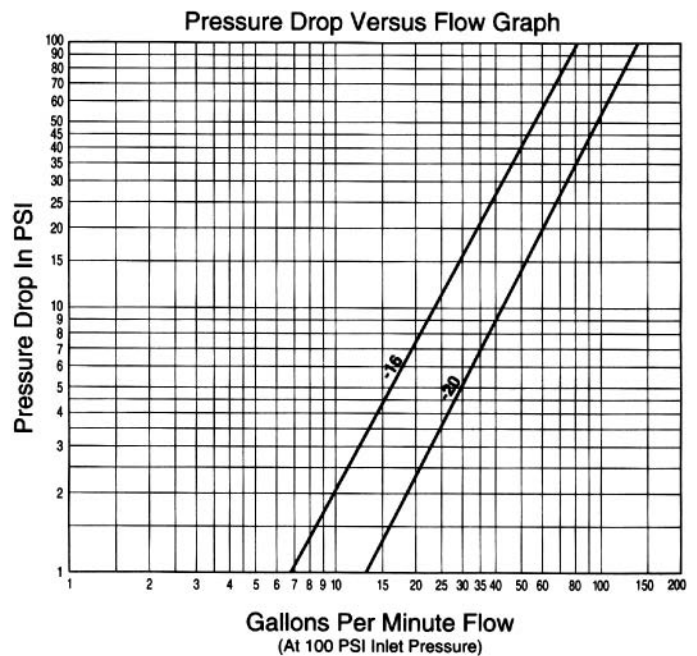


The FD86 Series is a thread together steel coupling offering Dry Break and high impulse technology and capabilities. The maximum operating pressure is 5,000 psi.

- 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-to-metal 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.

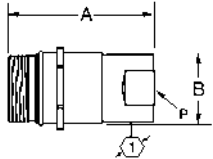
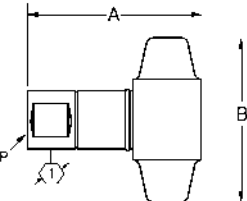
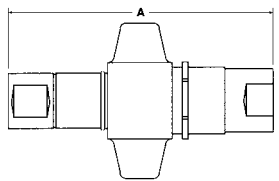
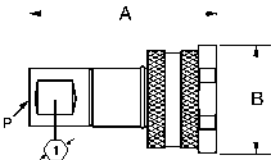
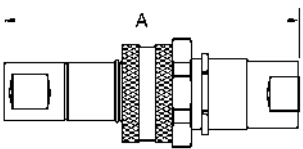
*Teflon is a registered trademark of Dupont.



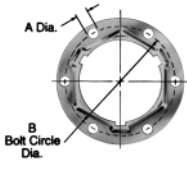
Flow Data



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 |

| FD86 Series | Coupling Size | Thread Size(P) | Dimensional Data | | | Part Number | | |
|--|---------------|-----------------------------------|------------------|------|--------|-----------------|-----------------|-----------------|
| | | | A | B | ϕ | Buna-N | Viton | EPR |
| Male Half Female NPTF  | -16 | 1-11 $\frac{1}{2}$ | 4.40 | 2.11 | 1.75 | FD86-1002-16-16 | FD86-1040-16-16 | FD86-1050-16-16 |
| | -20 | 1 $\frac{1}{4}$ -11 $\frac{1}{2}$ | 4.43 | 2.48 | 2.25 | FD86-1002-20-20 | FD86-1040-20-20 | FD86-1050-20-20 |
| | | | | | | | | |
| Female Half Female NPTF/With Wing Nut  | -16 | 1-11 $\frac{1}{2}$ | 4.98 | 4.50 | 1.62 | FD86-1001-16-16 | FD86-1039-16-16 | FD86-1049-16-16 |
| | -20 | 1 $\frac{1}{4}$ -11 $\frac{1}{2}$ | 5.62 | 5.25 | 2.00 | FD86-1001-20-20 | FD86-1039-20-20 | FD86-1049-20-20 |
| | | | | | | | | |
| Complete Coupling Female NPTF/With Wing Nut  | -16 | 1-11 $\frac{1}{2}$ | 8.09 | | | FD86-1000-16-16 | FD86-1059-16-16 | FD86-1055-16-16 |
| | -20 | 1 $\frac{1}{4}$ -11 $\frac{1}{2}$ | 8.48 | | | FD86-1000-20-20 | FD86-1059-20-20 | FD86-1055-20-20 |
| | | | | | | | | |
| Female Half Female NPTF/With Hex Nut  | -16 | 1-11 $\frac{1}{2}$ | 4.98 | 2.81 | 1.62 | FD86-1004-16-16 | FD86-1041-16-16 | FD86-1051-16-16 |
| | -20 | 1 $\frac{1}{4}$ -11 $\frac{1}{2}$ | 5.62 | 3.40 | 2.00 | FD86-1004-20-20 | FD86-1041-20-20 | FD86-1051-20-20 |
| | | | | | | | | |
| Complete Coupling Female NPTF/With Hex Nut  | -16 | 1-11 $\frac{1}{2}$ | 8.09 | | | FD86-1003-16-16 | FD86-1060-16-16 | FD86-1056-16-16 |
| | -20 | 1 $\frac{1}{4}$ -11 $\frac{1}{2}$ | 8.48 | | | FD86-1003-20-20 | FD86-1060-20-20 | FD86-1056-20-20 |
| | | | | | | | | |
| Repair Kit | Male Half | | | | | | | |
| | -16 | | | | | FF10596-16 | FF10597-16 | FF10598-16 |
| | -20 | | | | | FF10596-20 | FF10597-20 | FF10598-20 |
| | Female Half | | | | | | | |
| | -16 | | | | | FF10593-16 | FF10594-16 | FF10595-16 |
| | -20 | | | | | FF10593-20 | FF10594-20 | FF10595-20 |

| FD86 Series | Coupling Dash Size | Dimensional Size | | Part Number | | |
|--|---|------------------|------|---------------------|----------------------|------------------------|
| | | A | B | Dust Cap with Chain | Dust Plug with Chain | 6 Bolt Flange Assembly |
| Accessories | | | | | | |
| Dust Cap With Chain  | Dust Plug With Chain  | -16 | | FD86-1018-16 | FD86-1016-16 | |
| | | -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 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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



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Specifications subject to change without notice