



FEM Series couplings meet or exceed ISO 16028 design and performance requirements. The flush valves eliminate spillage and air inclusion when connecting and disconnecting. Coupler and nipple bodies have a modular design with increased flexibility for end port options. FEC nipples provide a connect-under-pressure option for trapped residual pressure.

### Features

- Flush, non-spill valving
- Global interchangeability with other ISO 16028 compliant couplings
- Hardened nipple bodies
- Sleeve-Lok design standard
- Connect-under-pressure FEC nipple option
- Protective zinc nickel plating

### Applications include:

- Skid loader attachments
- Hydraulic tools

### Materials of Construction

**Body:** Steel

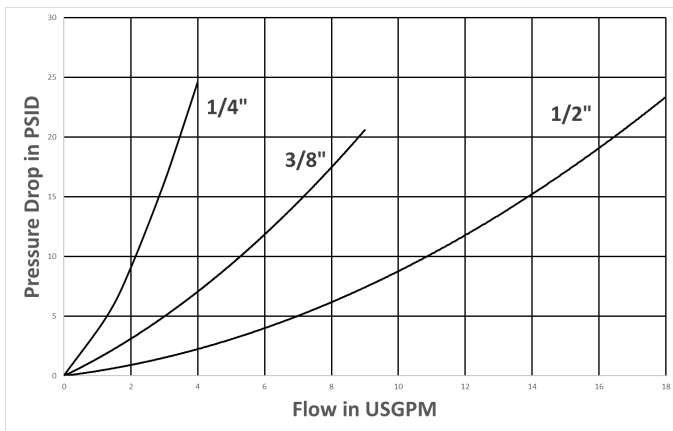
**Finish:** 1/4", 5/8" to 1" Zinc with clear trivalent chromate  
3/8" & 1/2" Zinc Nickel

**Valve:** Flush face valving

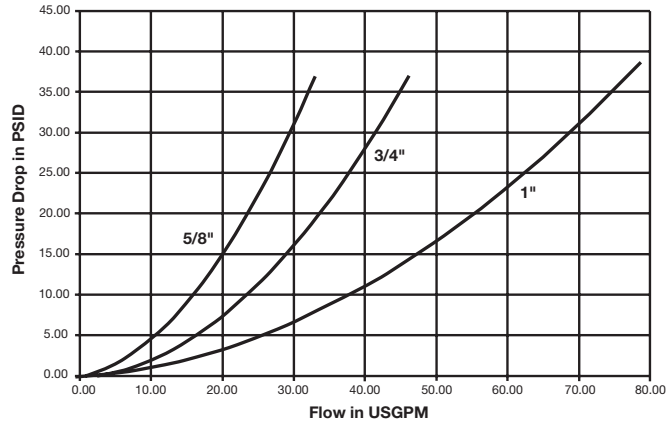
**Seal:** Polyurethane and Nitrile

### Performance

FEM Series (1/4", 3/8" & 1/2")  
Test Fluid: Oil - 150 SUS



FEM Series (5/8", 3/4" & 1")  
Test Fluid: Oil - 150 SUS

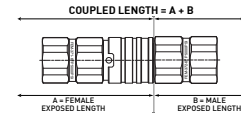
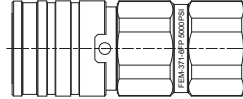


### FEM Series Specifications

Body Size	Rated Pressure (psi)	Rated Flow (gpm)	Temperature Range	Spillage (ml) max. per disconnect	Air Inclusion (ml) max. per connect	Body Material	Sleeve Type	Seal Material
1/4	4568	3	-22° to +212°F	.015	.020	Steel	Push to Connect	Polyurethane and Nitrile
3/8	5000	6		.015	.020			
1/2	5000	12		.020	.070			
5/8	3625	20		.030	.070			
3/4	3625	26		.150	.100			
1	2900	50		.200	.150			

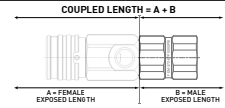
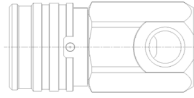


**FEM Series Couplers**



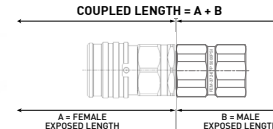
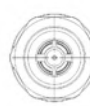
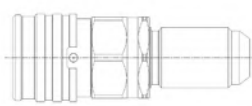
Body Size	Coupler Part Number	Port End	Length	Coupled Length (when connected to corresponding nipple)	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FEM-251-4FP	1/4-18 NPTF	1.96	3.98	1.16	27mm	0.52
1/4	FEM-251-6FO	9/16-18 UNF	2.08	4.06	1.16	27mm	0.51
3/8	FEM-371-6FP	3/8-18 NPTF	3.06	5.02	1.26	30 mm	0.77
3/8	FEM-371-8FO	3/4-16 UNF	3.06	5.02	1.26	30 mm	0.74
3/8	FEM-371-8FB	G1/2 BSPP	3.17	5.23	1.31	30 mm	0.75
1/2	FEM-501-8FP	1/2-14 NPTF	3.26	5.74	1.59	36 mm	1.22
1/2	FEM-501-8FO	3/4-16 UNF	3.26	5.74	1.59	36 mm	1.22
1/2	FEM-501-8FB	G1/2 BSPP	3.07	5.35	1.59	36 mm	1.14
1/2	FEM-501-10FO	7/8-14 UNF	3.08	5.38	1.59	36 mm	1.12
1/2	FEM-501-12FO	1 1/16-12 UNF	3.26	5.74	1.59	36 mm	1.11
1/2	FEM-501-12FB	G3/4 BSPP	3.25	5.71	1.59	36 mm	1.14
5/8	FEM-621-12FO	1 1/16-12 UNF	3.70	5.64	1.69	40 mm	1.34
3/4	FEM-751-12FP	3/4-14 NPTF	3.95	6.00	1.97	46 mm	1.98
3/4	FEM-751-12FO	1 1/16-12 UNF	3.95	6.20	1.97	46 mm	2.00
1	FEM-1001-16FP	1-11 1/2-NPTF	4.21	6.79	2.36	55 mm	3.08
1	FEM-1001-16FO	1 5/16-12 UNF	4.21	6.79	2.36	55 mm	3.03

**FEM Series Couplers - 90 Degree**



Body Size	Coupler Part Number	Port End	Length	Coupled Length (when connected to corresponding nipple)	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEM-501-C6FP	3/8-18 NPTF	3.26	5.74	1.59	32 mm	1.187
1/2	FEM-501-C8FO	3/4-16 ORB	3.25	5.71	1.59	36 mm	1.187

**FEM Series Couplers - Bulkhead**



Body Size	Coupler Part Number	Port End	Length	Coupled Length (when connected to corresponding nipple)	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEM-501-10BMF	7/8-14 UNF	4.02	6.32	1.54	32 mm	1.07
1/2	FEM-501-10BMS	1-14 UNS	4.02	6.32	1.59	36 mm	1.16

Code	Description	Part Number Example
suffix -E5	Ethylene Propylene seal material (EPR)	FEM-501-8FP-E5
suffix -E4	Fluorocarbon seal material	FEM-501-8FP-E4

Contact QCD for availability and additional options. To select proper seal materials, see Fluid Compatibility Chart or contact QCD.

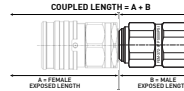
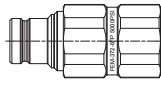


**WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



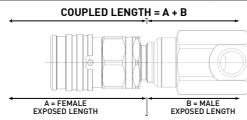
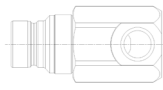


### FEM Series Nipples



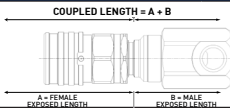
Body Size	Nipple Part Number	Port End	Length	Coupled Length (when connected to corresponding coupler)	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FEM-252-4FP	1/4-18 NPTF	1.71	3.98	0.96	22 mm	0.20
1/4	FEM-252-6FO	9/16-18 UNF	1.95	4.06	0.96	22 mm	0.19
3/8	FEM-372-6FP	3/8-18 NPTF	2.59	5.02	1.26	30 mm	0.48
3/8	FEM-372-8FO	3/4-16 UNF	2.59	5.02	1.26	30 mm	0.45
3/8	FEM-372-8FB	G1/2 BSPP	2.69	5.22	1.26	30 mm	0.47
1/2	FEM-502-8FP	1/2-14 NPTF	3.13	5.74	1.57	36 mm	0.84
1/2	FEM-502-8FO	3/4-16 UNF	3.13	5.74	1.57	36 mm	0.85
1/2	FEM-502-8FB	G1/2 BSPP	2.95	5.35	1.57	36 mm	0.77
1/2	FEM-502-10FO	7/8-14 UNF	2.95	5.38	1.57	36 mm	0.75
1/2	FEM-502-12FO	1 1/16-12 UN	3.13	5.74	1.57	36 mm	0.74
1/2	FEM-502-12FB	G3/4 BSPP	3.13	5.71	1.57	36 mm	0.76
5/8	FEM-622-12FO	1 1/16-12 UN	3.09	5.64	1.57	36 mm	0.72
3/4	FEM-752-12FP	3/4-14 NPTF	3.38	6.00	1.97	46 mm	1.17
3/4	FEM-752-12FO	1-1/16 12 UN	3.38	6.20	1.974	46 mm	1.20
1	FEM-1002-16FP	1-11 1/2 NPTF	3.85	6.79	2.36	55 mm	1.94
1	FEM-1002-16FO	1-5/16 12 UN	3.85	6.79	2.36	55 mm	1.90

### FEM Series Nipples - 90 Degree



Body Size	Coupler Part Number	Port End	Length	Coupled Length (when connected to corresponding coupler)	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEM-502-C6FP	3/8-18 NPTF	3.13	5.74	1.57	36 mm	.82
1/2	FEM-502-C8FO	3/4-16 ORB	3.13	5.71	1.57	36 mm	.82

### FEM Series Nipples - Bulkhead



Body Size	Nipple Part Number	Port End	Length	Coupled Length (when connected to corresponding nipple)	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEM-502-10BMF	7/8-14 UNF	3.85	7.24	1.38	31.75 mm	.84
1/2	FEM-502-10BMS	1-14 UNS	3.85	7.24	1.38	31.75 mm	.84

### Dust Caps - FEM Series



Body Size	Nipple Dust Cap	Coupler Dust Cap	Material	Body Size	Nipple Dust Cap	Coupler Dust Cap	Material
1/4	CFE-252-PN	PFE-251-PN	PVC	5/8	CFE-622-PN	PFE-621-PN	PVC
3/8	CFE-372-PN	PFE-371-PN	PVC	3/4	CFE-752-PN	PFE-751-PN	PVC
1/2	CFE-502-PN	PFE-501-PN	PVC	1	CFE-1002-PN	PFE-1001-PN	PVC

**Standard Port Configurations:** **FP** - Female Pipe Thread **FO** - Female Straight Thread **BMF** - Bulkhead Flare **BMS** - Bulkhead Face Seal  
**FB** - Female British Standard Parallel Pipe Other Fitting Port Configurations available upon request.

\* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.



### Applications

Parker FEC Series nipple provide connect-under-pressure capability with up to 3000 PSI of trapped pressure in the nipple and are ideal for applications where residual pressure makes reconnect difficult. Utilized primarily in the construction equipment market, FEC Series products are commonly found on hydraulic attachments used in skid steer applications. The FEC Series mates with the FEM Series interface ISO 16028 couplers.

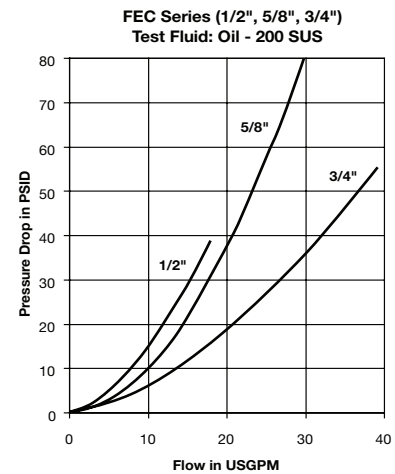
### Features:

- Connect-Under-Pressure nipple
- Hardened locking surface
- Steel construction, Chromium-6 Free plating for corrosion resistance
- Anti blowout bonded nipple seal
- Flush face valving

### Connect Under Pressure Operation

FEC Series products operate slightly different from traditional non-spill couplings. With no pressure in the coupler and up to 3000 PSI of trapped pressure in the nipple, begin to couple the mating halves. Delay momentarily during connection to allow trapped pressure to equalize with the mating half before completing the connection.

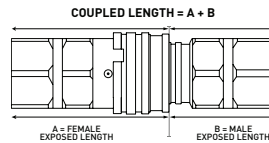
### Performance



### FEC Series Specifications

Body Size	Rate Pressure (psi)	Rated Connect-Under-Pressure Capability	Rated Flow (gpm)	Spillage (ml) max. per disconnect	Air Inclusion (ml) max. per connect
1/2	3625	3000	12	.020	.070
5/8	3625	1700	20	.003	.070
3/4	3625	1500	26	.150	.100

### FEC Series Connect Under Pressure Nipples



Body Size	Part Number	Mating Half	Port End	Length	Coupled Length (when connected to corresponding nipple)	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEC-502-8FP	FEM-501	1/2-14 NPTF	3.50	5.82	1.22	1.125	-
1/2	FEC-502-10FO	FEM-501	7/8-14 UNF	3.50	5.82	1.22	1.125	-
1/2	FEC-502-12FO	FEM-501	1 1/16-12 UNF	3.79	6.36	1.65	1.500	-
5/8	FEC-622-12FO	FEM-621	1 1/16-12 UN	3.39	5.94	1.65	1.500	-
3/4	FEC-752-12FO	FEM-751	1 1/16-12 UN	3.76	6.58	1.65	1.500	-

**Standard Port Configurations:** **FP** - Female Pipe Thread **FO** - Female Straight Thread

\* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.



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