



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 steel sleeves and nipple bodies
- Optional locking sleeve
- Blow-out resistant seal
- Connect-under-pressure FEC nipple option
- Protective zinc plating with clear trivalent chromate finish

Applications include:

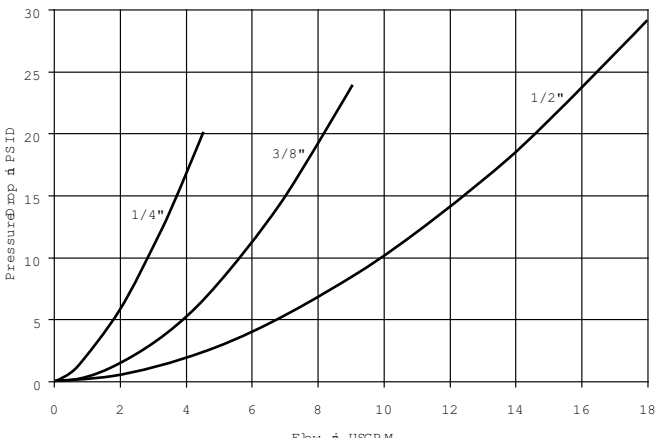
- Skid loader attachments
- Hydraulic tools

Materials of Construction

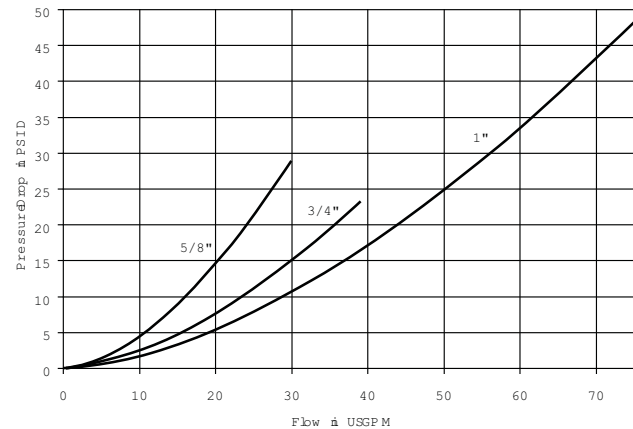
- Body:** Steel
Finish: Chromium-6 Free plating
Valve: Flush face valving
Seal: Polyurethane or Nitrile; size dependant

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	-40° to +250°F	.015	.020	Steel	Push to Connect	Nitrile/Polyurethane
3/8	3625	6		.015	.020			
1/2	3625	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	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FEM-251-4FP-NL	1/4-18 NPSF	1.96	1.06	1.00	0.25
1/4	FEM-251-6FO-NL	9/16-18 UNF	2.08	1.06	1.00	0.25
3/8	FEM-371-6FP-NL	3/8-18 NPSF	2.89	1.19	1.06	0.51
3/8	FEM-371-8FO-NL	3/4-16 UNF	2.89	1.19	1.06	0.51
1/2	FEM-501-8FP-NL	1/2-14 NPSF	2.96	1.54	1.25	0.93
1/2	FEM-501-8FO-NL	3/4-16 UNF	2.96	1.54	1.25	0.93
1/2	FEM-501-10FO-NL	7/8-14 UNF	2.96	1.54	1.25	0.93
1/2	FEM-501-12FO-NL	1 1/16-12 UNF	3.21	1.54	1.25	0.93
5/8	FEM-621-12FO-NL	1 1/16-12 UNF	3.70	1.70	1.50	1.40
3/4	FEM-751-12FP-NL	3/4-14 NPSF	3.95	1.95	1.75	2.04
3/4	FEM-751-12FO-NL	1 1/16-12 UNF	3.95	1.95	1.75	2.04
1	FEM-1001-16FP-NL	1-11 1/2-NPSF	4.21	2.25	2.00	2.70
1	FEM-1001-16FO-NL	1 5/16-12 UNF	4.21	2.25	2.00	2.70

FEM Series Couplers (Bulkhead)



Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEM-501-10BMF-NL	7/8-14 UNF	4.04	1.54	1.25	0.93
1/2	FEM-501-10BMS-NL	1-14 UNS	4.04	1.54	1.25	0.95

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

Optional seals include O-ring & Back-Up Ring, not Anti-Blow Out bonded seal. Contact QCD for availability and additional options.
To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



FEM Series Nipples



Body Size	Nipple Part Number	Port End	Length	Exposed Length*	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FEM-252-4FP	1/4-18 NPSF	1.71	1.25	1.06	1.00	0.17
3/8	FEM-372-6FP	3/8-18 NPSF	2.48	1.83	1.16	1.06	0.32
3/8	FEM-372-8FO	3/4-16 UNF	2.48	1.83	1.16	1.06	0.32
1/2	FEM-502-8FP	1/2-14 NPSF	2.77	2.15	1.38	1.25	0.54
1/2	FEM-502-10FO	7/8-14 UNF	2.77	2.15	1.38	1.25	0.54
1/2	FEM-502-12FO	1 1/16-12 UN	3.02	2.35	1.38	1.25	0.54
5/8	FEM-622-12FO	1 1/16-12 UN	3.09	2.39	1.65	1.50	0.76
3/4	FEM-752-12FP	3/4-14 NPSF	3.38	2.46	1.94	1.75	1.12
3/4	FEM-752-12FO	1-1/16 12 UN	3.38	2.46	1.94	1.75	1.12
1	FEM-1002-16FP	1-11 1/2 NPSF	3.85	2.93	2.25	2.00	1.72
1	FEM-1002-16FO	1-5/16 12 UN	3.85	2.93	2.25	2.00	1.72

FEM Series Nipples (Bulkhead)



Body Size	Nipple Part Number	Port End	Length	Exposed Length*	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEM-502-10BMF	7/8-14 UNF	3.85	3.15	1.38	1.25	0.54
1/2	FEM-502-10BMS	1-14 UNS	3.85	3.15	1.38	1.25	0.56

Standard Port Configurations: **FP** - Female Pipe Thread **FO** - Female Straight Thread **BMF** - Bulkhead Flare Seal

BMS - Bulkhead Face Seal

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.

Dust Caps - FEM Series



Body Size	Dust Plug Part No. Rubber	Dust Cap Part No. Rubber
1/4	FR-25	FR-25
3/8	NR-50	NR-37
1/2	FR-501	FER-502
3/4	FR-751	FER-752
1	FR-1001	FR-1002