



The 3000 Series coupling are designed for high pressure applications. The coupler sleeve and nipple body must be manually threaded together to make the connection.

Features:

- Manual threaded connection and actuation
- Hard, chrome alloy ball valves
- Polyurethane interface seal resists high pressure extrusion
- Threaded retainer provides a positive valve stop
- Protective zinc plating with clear trivalent chromate finish

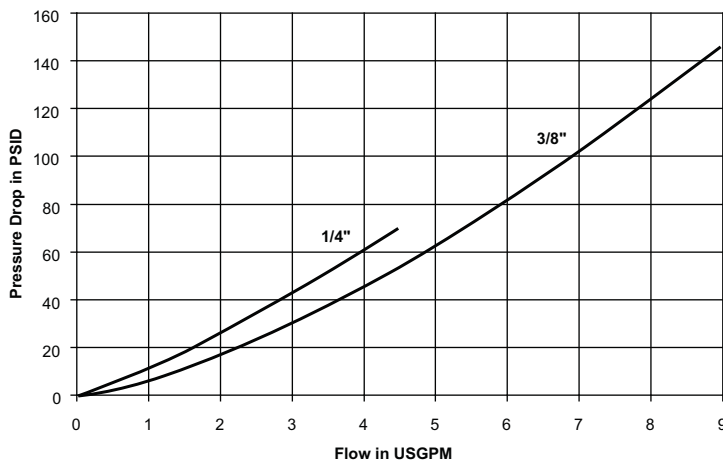
Applications include:

- Hydraulic rams
- Portable hydraulic tools
- Crimping equipment

3000 Series Specifications						
Body Size	Rated Flow (gpm)	Rated Pressure (psi)	Temperature	Body Material	Sleeve Type	Seal Material
1/4	3	10,000	-22° F to +230° F	Steel	Thread to connect	Polyurethane
3/8	6			Steel	Thread to connect	Polyurethane

Performance:

3000 Series (1/4", 3/8")
Test Fluid: Oil - 200 SUS





3000 Series Couplers



Body Size	Coupler Part Number	Port End	Valve Type	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	3050-2	1/4-18 NPTF (Male)	Ball	2.38	1.13	0.81	0.25
3/8	3050-3	3/8-18 NPTF (Male)	Ball	2.38	1.38	1.00	0.49
3/8	3050-3-231	3/8-18 NPTF (Female)	Ball	2.38	1.38	1.00	0.49

3000 Series Nipples



Body Size	Coupler Part Number	Port End	Valve Type	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	3010-2	1/4-18 NPTF (Female)	Ball	1.29	1.13	0.88	0.14
3/8	3010-3	3/8-18 NPTF (Female)	Ball	1.58	1.25	0.94	0.23
3/8	3010-3-230	3/8-18 NPTF (Male)	Ball	2.31	1.25	1.00	0.30

3000 Series Replacement O-Rings

Body Size	Material	Part Number	Durometer
1/4	Polyurethane	50001-114-0296	90
3/8	Polyurethane	50001-210-0296	90

3000 Series Dust Caps and Plugs



Body Size	Dust Cap	Color/Material	Dust Plug	Weight (lbs.)
1/4	3009-2	Steel	3005-2	.02
3/8	3009-3	Steel	3005-3	.04





FF Series couplings eliminate spillage and air inclusion when connecting and disconnecting. The sleeve locking mechanism prevents accidental disconnection. 3/8" body size complies with Hydraulic Tool Manufacturers Association standards. FC nipples provide a connect-under-pressure option for trapped pressures up to 3000 psi on the nipple side.

Features

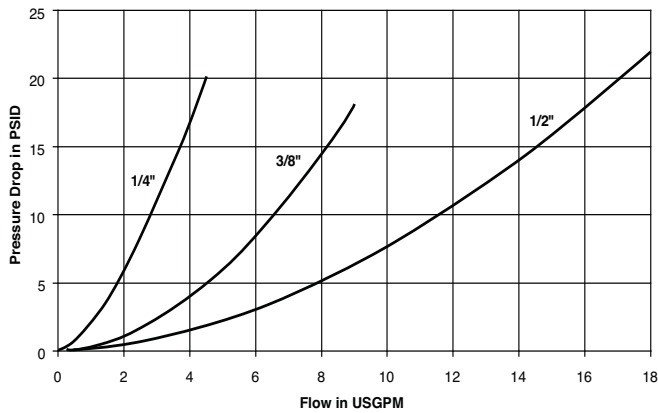
- Flush, non-spill valving
- Hardened steel sleeves and nipple bodies
- Locking sleeve
- Blow-out resistant seal
- Connect-under-pressure nipple option
- Protective zinc plating with clear trivalent chromate finish

Applications include:

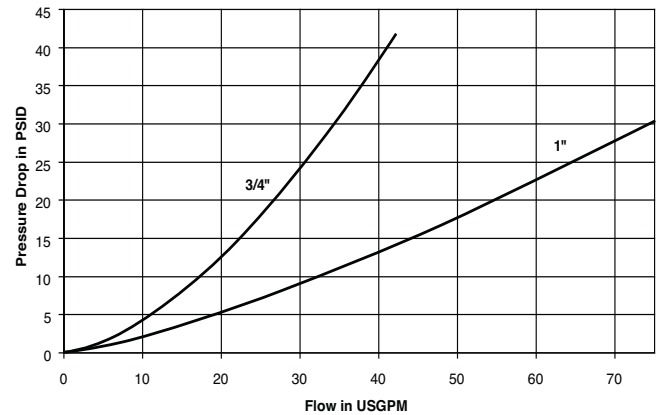
- Hydraulic tools

Performance

FF Series (1/4", 3/8", 1/2")
Test Fluid: Oil - 200 SUS



FF Series (3/4" & 1")
Test Fluid: Oil - 200 SUS



FF 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	5000	3	-40° to +250°F	.015	.020	Steel	Push to Connect	Nitrile
3/8	3000	6		.015	.020			
1/2	3000	12		.020	.070			
3/4	3000	28		.150	.100			
1	3000	50		.200	.150			





FF Series Couplers



Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FF-251-4FP	1/4-18 NPSF	1.79	1.06	1.00	0.23
1/4	FF-251-4MP	1/4-18 NPTF	1.84	1.06	1.00	0.24
1/4	FF-251-6FO	9/16-18 UNF	1.91	1.06	1.00	0.23
3/8	FF-371-6FP	3/8-18 NPSF	2.39	1.20	1.06	0.44
3/8	FF-371-8FP	1/2-14 NPSF	2.8	1.20	1.06	0.5
3/8	FF-371-6FB	G3/8 BSPP	2.45	1.20	1.06	0.45
3/8	FF-371-8FB	G1/2 BSPP	2.80	1.20	1.06	0.48
3/8	FF-371-8FO	3/4-16 UNF	2.82	1.20	1.06	0.52
1/2	FF-501-8FP	1/2-14 NPSF	2.67	1.58	1.37	0.88
1/2	FF-501-10FO	7/8-14 UNF	2.89	1.58	1.37	1.05
3/4	FF-751-12FP	3/4-14 NPSF	3.50	1.94	1.75	1.84
3/4	FF-751-12FO	1 1/16-12 UNF	3.75	1.94	1.75	1.93
1	FF-1001-16FP	1-11 1/2 NPSF	4.14	2.25	1.87	2.64
1	FF-1001-16FO	1 5/16-12UNF	4.24	2.25	1.87	2.68

FF Series Nipples



Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FF-252-4FP	1/4-18 NPSF	1.66	1.06	1.00	0.16
1/4	FF-252-4MP	1/4-18 NPTF	1.72	1.06	1.00	0.26
1/4	FF-252-6FO	9/16-18 UNF	1.66	1.06	1.00	0.16
3/8	FF-372-6FP	3/8-18 NPSF	2.31	1.08	0.94	0.26
3/8	FF-372-8FP	1/2-14 NPSF	2.64	1.19	1.06	0.32
3/8	FF-372-6FB	G3/8 BSPP	2.45	1.08	0.94	0.28
3/8	FF-372-8FB	G1/2 BSPP	2.70	1.19	1.06	0.32
3/8	FF-372-8FO	3/4-16 UNF	2.70	1.19	1.06	0.3
1/2	FF-502-8FP	1/2-14 NPSF	2.75	1.30	1.12	0.42
1/2	FF-502-10FO	7/8-14 UNF	2.97	1.30	1.12	0.44
3/4	FF-752-12FP	3/4-14 NPSF	3.38	1.73	1.50	1.00
3/4	FF-752-12FO	1 1/16-12 UNF	3.58	1.73	1.50	1.02
1	FF-1002-16FP	1-11 1/2 NPSF	3.85	2.17	1.87	1.60
1	FF-1002-16FO	1 5/16-12UNF	3.85	2.17	1.87	1.70


Standard Port Configurations: **FP** - Female Pipe Thread **FO** - Female Straight Thread
MP - Male Pipe Thread **FB** - Female British Standard Pipe Parallel



Optional Seals Suffix	
E4	Fluorocarbon
E5	Ethylene Propylene (EPR)
E35	Perfluoroelastomer (Contact Factory for Seal Options).

* Optional seals include O-ring & Back-Up Ring, not Anti-Blow Out bonded seal.

FF Series Repair Kits				
1/4" Nipple	FF-252-KIT	FF-252-KIT-E4	FF-252-KIT-E5	-
1/4" Coupler	FF-251-KIT	FF-251-KIT-E4	FF-251-KIT-E5	FF/FS-251-TOOL
3/8" Nipple	FF-372-KIT	FF-372-KIT-E4	FF-372-KIT-E5	-
3/8" Coupler	N/A	N/A	N/A	N/A
3/4" Nipple	FF-752-KIT	FF-752-KIT-E4	FF-752-KIT-E5	-
3/4" Coupler	FF-751-KIT	FF-751-KIT-E4	FF-751-KIT-E5	FF/FS-751-TOOL
1" Nipple	FF-1002-KIT	FF-1002-KIT-E4	FF-1002-KIT-E5	-
1" Coupler	FF-1001-KIT	FF-1001-KIT-E4	FF-1001-KIT-E5	FF/FS-1001-TOOL

Dust Caps - FF 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	FR-502	
3/4	FR-751	FR-752	
1	FR-1001	FR-1002	





Connect Under Pressure Operation

FC 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.

FC Series nipples provide a connect-under-pressure option for trapped pressures up to 3000 psi on the nipple side.

Features:

- Connect-under-pressure nipple
- Flush, non-spill valving
- Hardened locking surface
- Blow-out resistant seal
- Protective zinc plating with clear trivalent chromate finish

Applications include:

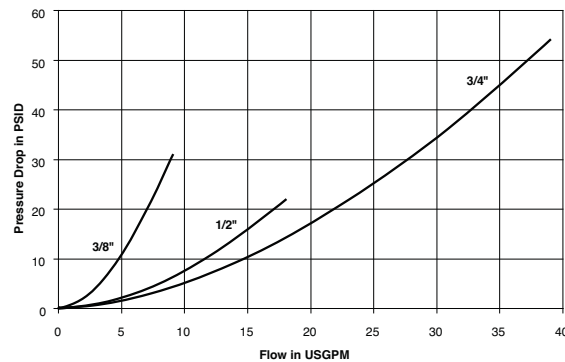
- Hydraulic tools

FC Series Specifications

Body Size	Rated Pressure (PSI)	Rated Connect-Under-Pressure Capability	Rated Flow (GPM)	Spillage (ML) max. per disconnect	Air Inclusion (ML) max. per connect
3/8	3000	3000	6	.015	.020
1/2	3000	3000	12	.020	.070
3/4	3000	3000	26	.150	.100

Performance

FC Series (3/8", 1/2", 3/4")
Test Fluid: Oil - 200 SUS



FC Series Connect Under Pressure Nipples



Body Size	Part Number	Mating Half	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
3/8	FC-372-6FP	FF-371	3/8-18 NPSF	3.30	1.16	1.062	0.45
3/8	FC-372-8FO	FF-371	3/4-16 UNF	3.30	1.16	1.062	0.42
3/8	FC-372-8FP	FF-371	1/2-14 NPSF	3.30	1.16	1.062	0.42
1/2	FC-502-8FP	FF-501	1/2-14 NPSF	3.46	1.22	1.125	0.53
1/2	FC-502-10FO	FF-501	7/8-14 UNF	3.46	1.22	1.125	0.52
3/4	FC-752-12FO	FF-751	1 1/16-12 UNF	4.81	1.65	1.500	1.32
3/4	FC-752-12FP	FF-751	3/4-14 NPSF	4.81	1.65	1.500	1.34

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



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 nipple option
- Protective zinc plating with clear trivalent chromate finish

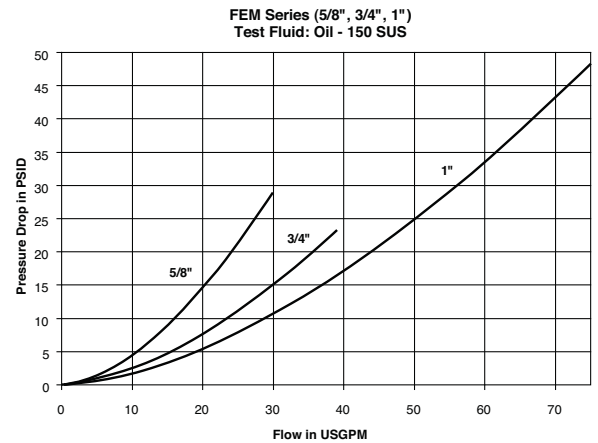
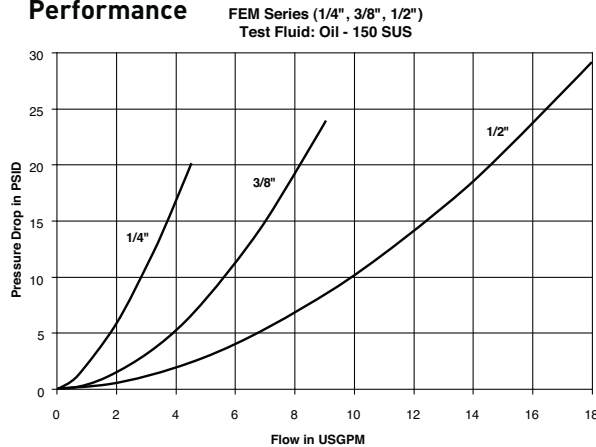
Applications include:

- Skid loader attachments
- Hydraulic tools

Materials of Construction

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

Performance



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
3/8	3625	6		.015	.020			
1/2	3625	12		.020	.070			
5/8	3625	20		.030	.070			
3/4	3625	28		.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	3.04	1.58	1.06	0.93
1/2	FEM-501-8FO-NL	3/4-16 UNF	2.96	1.58	1.25	0.93
1/2	FEM-501-10FO-NL	7/8-14 UNF	3.04	1.58	1.25	0.93
1/2	FEM-501-12FO-NL	1 1/16-12 UNF	3.24	1.58	1.38	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	4.03	1.58	1.38	0.93
1/2	FEM-501-10BMS-NL	1-14 UNS	4.02	1.58	1.38	0.95



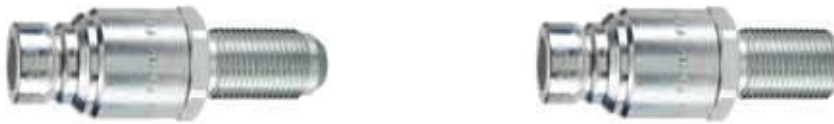


FEM Series Nipples



Body Size	Nipple Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FEM-252-4FP	1/4-18 NPSF	1.71	1.06	1.00	0.17
3/8	FEM-372-6FP	3/8-18 NPSF	2.48	1.16	1.06	0.32
3/8	FEM-372-8FO	3/4-16 UNF	2.48	1.16	1.06	0.32
1/2	FEM-502-8FP	1/2-14 NPSF	2.85	1.50	1.38	0.54
1/2	FEM-502-10FO	7/8-14 UNF	2.85	1.50	1.38	0.54
1/2	FEM-502-12FO	1 1/16-12 UN	3.05	1.50	1.38	0.54
5/8	FEM-622-12FO	1 1/16-12 UN	3.09	1.65	1.50	0.76
3/4	FEM-752-12FP	3/4-14 NPSF	3.38	1.94	1.75	1.12
3/4	FEM-752-12FO	1-1/16 12 UN	3.38	1.94	1.75	1.12
1	FEM-1002-16FP	1-11 1/2 NPSF	3.85	2.25	2.00	1.72
1	FEM-1002-16FO	1-5/16 12 UN	3.85	2.25	2.00	1.72

FEM Series Nipples (Bulkhead)



Body Size	Nipple Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEM-502-10BMF	7/8-14 UNF	3.85	1.50	1.38	0.54
1/2	FEM-502-10BMS	1-14 UNS	3.84	1.50	1.38	0.56

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

Other Fitting Port Configurations available upon request.

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	FR-502
3/4	FR-751	FR-752
1	FR-1001	FR-1002





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:

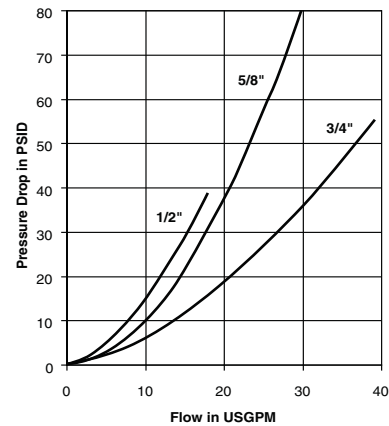
- Connect-Under-Pressure nipple
- Hardened locking surface
- Steel construction, Chromium-6 Free plating for corrosion resistance
- Anti blowout Nitrile/PTFE bonded nipple seal
- Flush face valving

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 (1/2", 5/8", 3/4")
Test Fluid: Oil - 200 SUS



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	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	FEC-502-8FP	FEM-501	1/2-14 NPSF	3.50	1.22	1.125	-
1/2	FEC-502-10FO	FEM-501	7/8-14 UNF	3.50	1.22	1.125	-
1/2	FEC-502-12FO	FEM-501	1 1/16-12 UNF	3.79	1.65	1.500	-
5/8	FEC-622-12FO	FEM-621	1 1/16-12 UN	4.19	1.65	1.500	-
3/4	FEC-752-12FO	FEM-751	1 1/16-12 UN	4.84	1.65	1.500	-

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

Catalog 3900 - Hydraulic Couplings Non-Spill Adapters

EAS/SAE Adapters
ISO 16028 / ISO 7241-A
1/2 inch body size



Pioneer Non-Spill Adapters were designed to accommodate the widespread use of several coupling types in mobile equipment. These adapters allow the user to adapt between poppet style, (ISO 7241-A), 6600 series couplings and non-spill type, (ISO 16028), FEM/FF series couplings. They are useful where multiple hydraulic attachments are being utilized.

Features:

- Adapts flush, non-spill valving to / from poppet style
- Global interchangeability with other ISO 16028 and ISO 7241-A compliant couplings
- Protective zinc plating with clear trivalent chromate finish

Applications include:

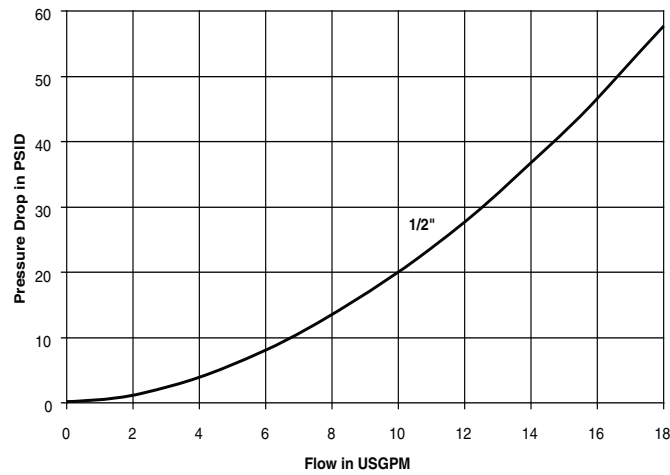
- Skid loader attachments



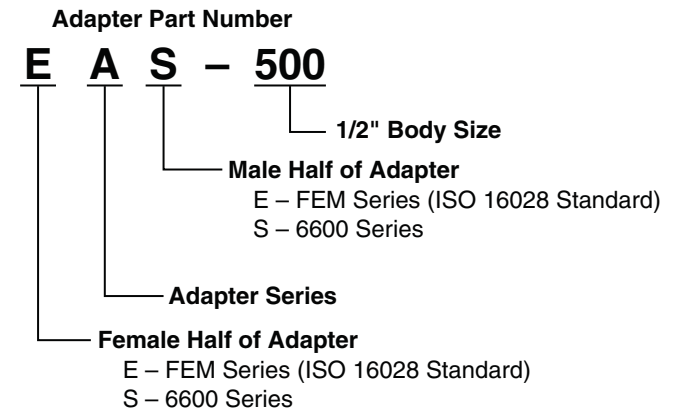
Quick Couplings

Performance

FEM/FF to 6600 Adapter (1/2")
Test Fluid: Oil - 200 SUS



How To Order



Specifications

Body Size	Rate Pressure (psi)	Rated Flow (gpm)	Temperature Range	Spillage (ml) max. per disconnect	Air Inclusion (ml) max. per connect
1/2	3625	12	-40° to +250° F	.020	.070

Adapters

Body Size	Part Number	Thread Size	Length	Wrench Flats	Largest Diameter
1/2	EAS-500	N/A	3.36	1.38	1.50
1/2	SAE-500	N/A	3.00	1.25	1.48





FS Series dry disconnect couplings are ideal for closed system transfer and dispensing of chemicals and other fluids. The flush valves eliminate spillage and air inclusion when connecting and disconnecting to result in minimal environmental contamination.

Features:

- Flush, non-spill valves enable ease of cleaning
- 316 stainless steel material for chemical compatibility
- Push to connect operation
- Fluorocarbon standard seal material with options available

Applications include:

- Chemical dispensing systems
- Chemical processing
- Food processing
- Corrosive media transfer

Materials of Construction

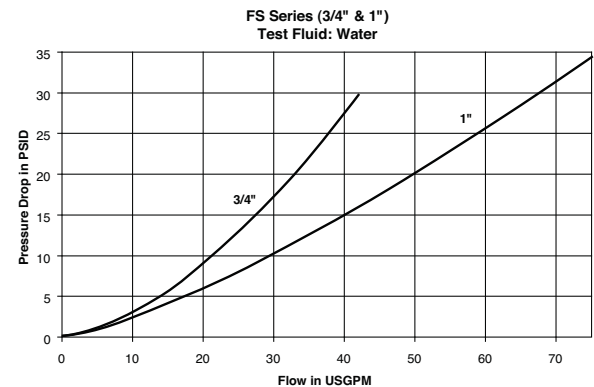
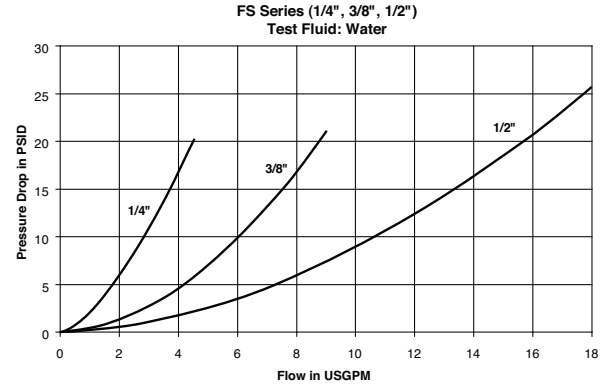
- Machined Parts:** Stainless Steel, AISI type 316
Springs: Stainless Steel, AISI type 316.
Locking Balls: 1/4" - 302 SS;
 3/8" - 1" - Tungsten Carbide
Backup Washers: PTFE
Elastomer Seals: Fluorocarbon is standard.
 Wide range is available.

Specifications					
Body Size	Rated Pressure (psi)	Rated Flow (gpm)	Spillage (ml) max. per disconnect	Air Inclusion (ml) max. per connect	CV
1/4	2000	3	.015	.010	0.90
3/8	2000	6	.015	.020	1.80
1/2	2000	12	.020	.070	3.00
3/4	2000	28	.150	.100	7.00
1	2000	50	.250	.182	10.1

Temperature Range (continuous)		
Part No. Seal Suffix	Seal Compound	Temp° F Rating
None*	Fluorocarbon	-15 to 400
E5	Ethylene Propylene (EPR)	-65 to 300
E1	Nitrile	-40 to 250
E35	Perfluoroelastomer (Contact Factory)	-20 to 600

*Fluorocarbon is standard seal.

Performance Flow Data





FS Series Couplers - Female Pipe Thread



Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FS-251-4FP	1/4-18 NPT	1.79	1.06	1.00	0.25
1/4	FS-251-4MP	1/4-18 NPTF	2.00	1.06	1.00	0.25
1/4	FS-251-6FO	9/16-18UNF	1.92	1.06	1.00	0.24
3/8	FS-371-6FP	3/8-18 NPT	2.52	1.30	1.06	0.58
3/8	FS-371-8FO	3/4-16 UNF	2.83	1.30	1.12	0.63
1/2	FS-501-8FP	1/2-14 NPT	2.74	1.58	1.38	0.92
1/2	FS-501-10FO	7/8-14 UNF	2.86	1.58	1.38	0.96
3/4	FS-751-12FP	3/4-14 NPT	3.63	1.99	1.75	2.00
3/4	FS-751-12FO	1-1/16-12 UNF	3.73	1.99	1.75	2.12
1	FS-1001-16FP	1-11 1/2 NPT	4.14	2.25	1.87	2.76
1	FS-1001-16FO	1-15/16-12 UNF	4.24	2.25	1.87	2.80

FS Series Nipples - Female Pipe Thread



Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/4	FS-252-4FP	1/4-18 NPT	1.66	1.06	1.00	0.18
1/4	FS-252-4MP	1/4-18 NPT	1.87	1.06	1.00	0.18
1/4	FS-252-6FO	9/16-18 UNF	1.66	1.06	1.00	0.17
3/8	FS-372-6FP	3/8-18 NPT	2.31	1.08	0.94	0.26
3/8	FS-372-8FO	3/4-16 UNF	2.45	1.30	1.06	0.30
1/2	FS-502-8FP	1/2-14 NPT	2.75	1.58	1.12	0.44
1/2	FS-502-10FO	7/8-14 UNF	2.85	1.58	1.12	0.48
3/4	FS-752-12FP	3/4-14 NPT	3.38	1.99	1.50	1.02
3/4	FS-752-12FO	1-1/16-12 UNF	3.38	1.99	1.50	1.14
1	FS-1002-16FP	1-11 1/2 NPT	3.89	2.25	1.87	1.60
1	FS-1002-16FO	1-5/16 12 UNF	3.89	2.25	1.87	1.64

Standard Port Configurations: FP - Female Pipe Thread MP - Male Pipe Thread FO - Female Straight Thread

Dust Caps - FS 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	FR-502
3/4	FR-751	FR-752
1	FR-1001	FR-1002



FS Series Repair Kits

Repair kits are available for both coupler and nipple half of FS coupling. Kits include replacement elastomer seals, valve assembly and instructions to perform rebuild. Spline tool must be ordered separately to accomplish coupler half repair. Other tools required: Vise, Allen Wrench and Open End Wrench.

FS Repair Kits		
TOOL Spline tool for Coupler Repair	Replacement Seals	
	No Suffix	Fluorocarbon Seals
	E5	Ethylene Propylene (EPR)
	E35	Perfluoroelastomer (Contact Factory for Seal Options).

Nipple Repair Kits			
1/4	FS-252-KIT	FS-252-KIT-E5	-
3/8	FS-372-KIT	FS-372-KIT-E5	-
1/2	FS-502-KIT	FS-502-KIT-E5	-
3/4	FS-752-KIT	FS-752-KIT-E5	-
1	FS-1002-KIT	FS-1002-KIT-E5	-

Coupler Repair Kits			
1/4	N/A	N/A	N/A
3/8	FS 371-KIT	FS 371-ES	FF/FS 371-TOOL
1/2	FS-501-KIT	FS-501-KIT-E5	FS-501-TOOL
3/4	FS-751-KIT	FS-751-KIT-E5	FF/FS-751-TOOL
1	FS-1001-KIT	FS-1001-KIT-E5	FF/FS-751-TOOL





PF Series dry disconnect couplings are ideal for closed system transfer and dispensing of chemicals and other fluids. The flush valves eliminate spillage and air inclusion when connecting and disconnecting to result in minimal environmental contamination.

Features:

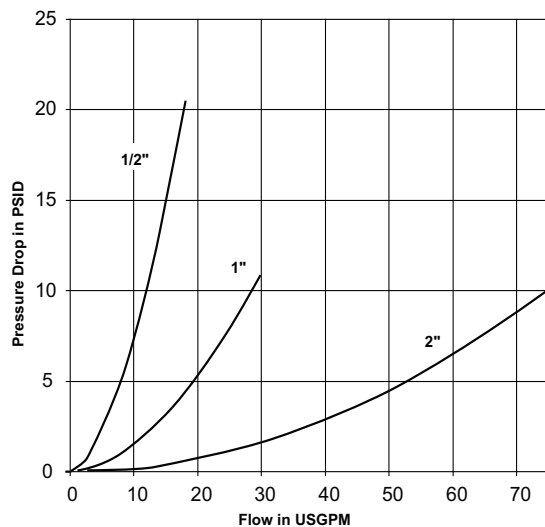
- Flush, non-spill valves enable ease of cleaning
- Rugged glass filled polypropylene construction for chemical compatibility
- Fluorocarbon seals
- Push to connect operation
- 1" coupler has non-wetted springs

Applications include:

- Chemical dispensing systems
- Spray application equipment
- Mini bulk tanks
- Replacement for banjo style camlok fittings & ball valves
- Bulk transfer barrels

Performance

PF (1/2", 1", 2")
Test Fluid: Water



FC Series Specifications

Body Size (in.)	Materials:			Rated Pressure (psi at 68°)	Rated Flow (gpm)	Pressure Drop at Rated Flow	Maximum Force to Connect	Maximum Force Disconnect	Operating Temperature/ Storage Temperature	Spillage max. per disconnect	Vacuum Rating
	Body	Springs	Seals								
1/2	Polypropylene	316 Stainless Steel	Fluorocarbon	100	12	11.3 PSI	32 lbs.	12 lbs.	+40° to +140° -20° to +140° F	0.14 ml .01 cu. in.	27.4 Hg
1				60	20	3.4 PSI	41 lbs.	17 lbs.		1 ml .06 cu. in. (1cc)	N/A
2				100	50	4 PSI	54	17 lbs.		9 ml .5 cu. in.	N/A





PF Series Couplers



Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	PF-501-8FP	1/2" NPT	3.02	1.88	1.38	0.17
1	PF-1001-16FP	1" NPT	3.59	3.0	1.99	0.53
2	PF-2001-32FP	2" NPT	6.63	5.00	-	1.75

PF Series Nipples



Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1/2	PF-502-8FP	1/2" NPT	2.96	1.33	1.24	0.08
1	PF-1002-16FP	1" NPT	3.92	2.20	1.87	0.26
2	PF-2002-32FP	2" NPT	5.71	3.55	-	0.75

PF Series Nipples - Tank Mount



Body Size	Coupler Part Number	Port End	Tank Mount Thread	Length	Largest Diameter	Wrench Flats	Weight (lbs.)
1	PF-1002-32MB	1" NPT	Modified Buttress	3.92	2.75	1.87	0.33
1	PF-1002-32MP	1" NPT	Modified NPS	3.92	2.75	1.87	0.31

Dust Caps - PF Series



Body Size	Nipple
1/2	PFR-502
1	PFR-1002
1	PFR-1002 -NS (for Tank Mount)



ST Series non-valved couplings provide maximum flow and low pressure drop. The smooth, open bore allows easy cleaning in applications where the same lines are used for more than one media.

Features

- Steel nipples are case hardened for resistance to Brinelling
- Functionally interchanges with similar straight-through design couplings
- Standard Nitrile seals
- Material options available

Applications:

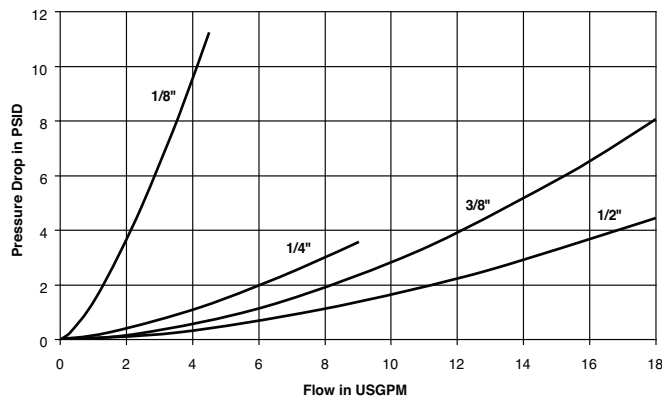
- High pressure water
- Steam washers
- Carpet cleaners



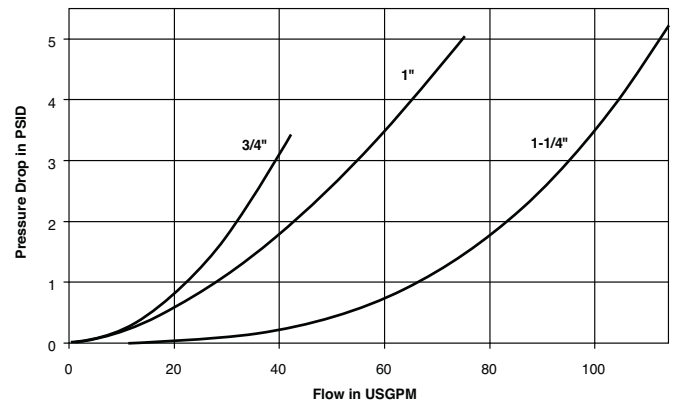
Specifications					
Body Size	Rated Pressure (psi) Brass Coupler/Nipple	Rated Pressure (psi) Brass Coupler/Steel Nipple	Rated Pressure (psi) SS Coupler/Nipple	Temperature Range (standard seals)	Rated Flow
1/8	2500	2600	4200	-40° to +250° F	3
1/4	5200	5500	6700		6
3/8	2700	3500	5500		12
1/2	2200	2700	3000		12
3/4	1700	2700	3000		28
1	1200	2000	1700		50
1-1/4	1700	-	-		76
1-1/2	1400	-	-		100

Performance

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



ST Series (3/4", 1", 1-1/4")
Test Fluid: Oil - 150 SUS





ST Series Couplers - Female Pipe Thread



Body Size	Brass Part Number	Stainless Part Number	Port End	Length	Largest Diameter	Wrench Flats	Brass Weight (lbs.)	Stainless Weight (lbs.)
1/8	BST-1	SST-1	1/8-27 NPTF	1.06	0.69	0.56	0.06	0.05
1/4	BST-2	SST-2	1/4-18 NPTF	1.54	0.94	0.81	0.17	0.15
3/8	BST-3	SST-3	3/8-18 NPTF	1.59	1.16	1.00	0.26	0.24
1/2	BST-4	SST-4	1/2-14 NPTF	1.98	1.30	1.13	0.59	0.37
3/4	BST-6	SST-6	3/4-14 NPTF	2.15	1.66	1.44	0.62	0.57
1	BST-8	SST-8	1-11 1/2 NPTF	2.43	2.02	1.75	0.99	0.93
1-1/4	BST-10	-	1 1/4-11 1/2 NPTF	2.44	2.51	2.00	1.38	-
1-1/2	BST-12	-	1 1/2-11 1/2 NPTF	2.88	3.00	2.50	1.42	-

ST Series Couplers - Male Pipe Thread



Body Size	Brass Part Number	Stainless Part Number	Port End	Length	Largest Diameter	Wrench Flats	Brass Weight (lbs.)	Stainless Weight (lbs.)
1/8	BST-1M	SST-1M	1/8-27 NPTF	1.06	0.69	0.56	0.05	0.69
1/4	BST-2M	SST-2M	1/4-18 NPTF	1.69	0.94	0.81	0.13	0.81
3/8	BST-3M	SST-3M	3/8-18 NPTF	1.75	1.16	1.00	0.25	1.16
1/2	BST-4M	SST-4M	1/2-14 NPTF	1.94	1.30	1.13	0.34	1.30
3/4	BST-6M	SST-6M	3/4-14 NPTF	2.17	1.66	1.44	-	1.66
1	BST-8M	SST-8M	1-11 1/2 NPTF	2.53	2.02	1.75	0.85	2.02



ST Series Nipples- Female Pipe Thread



Body Size	Brass Part Number	Weight. (lbs.)	Steel Part Number	Weight. (lbs.)	Stainless Part Number	Weight. (lbs.)	Length	Largest Diameter	Wrench Flats
1/8	BST-N1	0.03	ST-N1	0.03	SST-N1	0.02	0.98	0.65	0.56
1/4	BST-N2	0.07	ST-N2	0.07	SST-N2	0.07	1.46	0.87	0.75
3/8	BST-N3	0.12	ST-N3	0.11	SST-N3	0.11	1.62	1.59	0.08
1/2	BST-N4	0.23	ST-N4	0.21	SST-N4	0.21	1.85	1.30	1.13
3/4	BST-N6	0.33	ST-N6	0.32	SST-N6	0.32	2.15	1.59	1.38
1	BST-N8	0.52	ST-N8	0.49	SST-N8	0.48	2.35	1.88	1.63
1-1/4	BST-N10	0.85	-	-	-	-	2.38	2.31	2.00
1-1/2	BST-N12	1.45	-	-	-	-	2.81	2.74	2.38

ST Series Nipples- Male Pipe Thread



Body Size	Brass Part Number	Weight. (lbs.)	Steel Part Number	Weight. (lbs.)	Stainless Part Number	Weight. (lbs.)	Length	Largest Diameter	Wrench Flats
1/8	BST-N1M	0.02	ST-N1	0.02	SST-N1	0.02	1.04	0.51	0.44
1/4	BST-N2M	0.06	ST-N2	0.05	SST-N2	0.05	1.53	0.65	0.56
3/8	BST-N3M	0.08	ST-N3	0.07	SST-N3	0.08	1.69	0.79	0.69
1/2	BST-N4M	0.15	ST-N4	0.13	SST-N4	0.13	1.94	1.01	0.88
3/4	BST-N6M	0.23	ST-N6	0.21	SST-N6	0.22	2.19	1.23	1.06
1	BST-N8M	0.46	ST-N8	0.43	SST-N8	0.43	2.51	1.59	1.38
1-1/4	BST-N10M	0.96	-	-	-	-	2.85	2.17	1.88
1-1/2	BST-N12M	1.46	-	-	-	-	3.25	2.45	2.13





Pioneer Water Service Quick Couplings add convenience and efficiency wherever water hoses are frequently connected and disconnected. The durable 4-ball locking mechanism provides a secure connection.

Features:

- Brass and stainless steel construction
- Nitrile seals

Applications include:

- Garden hoses
- Wash down systems
- Mobile water tank lines

Specifications			
Body Size	Rated Pressure (psi)	Rated Flow (gpm)	Temperature Range (std seals)
3/4	200	28	-40° to +250° F

Coupler					
Body Size	Coupler Part Number	Port End	Length	Largest Diameter	Weight (lbs.)
3/4	1163-60	3/4-11 1/2 NH	1.16	1.21	0.12

Nipple					
Body Size	Coupler Part Number	Port End	Overall Length	Exposed Length	Weight (lbs.)
3/4	1163-61	3/4-11 1/2 NH	1.25	0.50	0.08