## **FF49 SERIES**

## FLUSH FACE, HEAVY DUTY, NON-SPILL QUICK COUPLINGS

The FF49 Series quick couplings provide rugged-flushface valving for non-spill dry breaks, and allow one-hand push-to-connect with safety sleeve-lock standard. The 3/8" size meets HTMA dimensional standards while providing significantly higher pressure containment than other brands (10,000 operating psi). The FF49-6 and FF49-6-12 are rated at 6,000 operating psi and have a significantly smaller footprint than other brands. Ideally suited for use in hydraulic hand tools, overhead bucket hoists, skid steer loaders, and wherever spillage can constitute a safety or environmental hazard.

- Interchangeable with quick couplings meeting ISO 16028 dimensional requirements while exceeding performance requirements.
- Interchangeable with SafeWay's FFE49, with higher maximum operating pressure.
- 3/8" size is available in 303 stainless steel (SF49-3).
- Available in 3/8" and 1/2" body size in a wide variety of thread sizes and types (pipe and ORB standard).
- 3/8" size meets HTMA dimensional requirements. A black sleeve and "10,000 PSI MAX" stamping identify this size as the high pressure model within this interchange.
- Provides significantly higher working pressure than couplers we replace, with equal or better flow.
- Minimum air inclusion during connection and minimum fluid spillage during disconnection.
- Rugged flush face valving allows easy cleaning to minimize system contamination.



- Nitrile seals are standard. Seals made of Viton® are standard in the SF49-3.
- The FF49 Series includes unique double seals behind the coupler sleeve to prevent contamination from reaching critical toleranced parts.
- Smooth push-to-connect operation will allow connections against a maximum of 250 psi trapped pressure in the 3/8" body size; a maximum of 400 psi in the 1/2" body size.
- Standard sleeve lock feature prevents unintended disconnection.
- Additional detent (locking) balls greatly improve durability and increase pressure containment.
- Excellent for use anywhere spillage can result in a safety or environmental hazard.
- Heavy-duty steel dust plugs and dust caps are currently available for 3/8" body size male and female halves.
- All FF49 Series quick couplings are 100% leak tested.
- Method of obtaining and presenting performance data conforms to ANSI (NFPA) T3.20.2.R2, *Hydraulic fluid* power - Quick action couplings - Test methods.

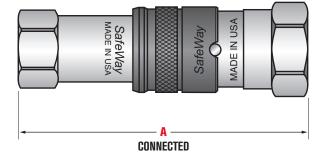
PART NUMBERS		DESCRIPTION		<b>OPERATING PRESSURE</b>		RATED FLOW		MAX. SPILLAGE
Complete Female Male		חצו	Thread Size	Maximum				(per disconnect)
Body Half	Tip Half	Body Size	and Description	PSI	(BAR)	GPM	(LPM)	CC
SF495-3	SF491-3	3/8"	3/8" Female Pipe	3,000	(207)	10	(38)	.02
FF495-3	FF491-3	3/8''	3/8" Female Pipe	10,000	(690)	10	(38)	.02
FF495-3M	FF491-3	3/8''	3/8" Female/Male Pipe	10,000	(690)	10	(38)	.02
FF495-3-8	FF491-3-8	3/8''	3/4"-16 Female ORB	10,000	(690)	10	(38)	.02
FF495-3-1/2	FF491-3-1/2	3/8''	1/2" Female Pipe	10,000	(690)	10	(38)	.02
FF495-6	FF491-6	1/2''	3/4" Female Pipe	6,000	(414)	12	(45)	.04
FF495-6-12	FF491-6-12	1/2"	1-1/16"-12 Female ORB	6,000	(414)	12	(45)	.04
	Female Body Half   SF495-3   FF495-3   FF495-3M   FF495-3-8   FF495-3-1/2   FF495-6	Female Body Half Male Tip Half   SF495-3 SF491-3   FF495-3 FF491-3   FF495-3M FF491-3   FF495-3-8 FF491-3-8   FF495-3-1/2 FF491-3-1/2   FF495-6 FF491-6	Female Body HalfMale Tip HalfISO Body SizeSF495-3SF491-33/8"FF495-3FF491-33/8"FF495-3MFF491-33/8"FF495-3-8FF491-3-83/8"FF495-3-1/2FF491-3-1/23/8"FF495-6FF491-61/2"	Female Body HalfMale Tip HalfISO Body SizeThread Size and DescriptionSF495-3SF491-33/8"3/8" Female PipeFF495-3FF491-33/8"3/8" Female PipeFF495-3MFF491-33/8"3/8" Female/Male PipeFF495-3-8FF491-3-83/8"3/4"-16 Female ORBFF495-3-1/2FF491-3-1/23/8"1/2" Female PipeFF495-6FF491-61/2"3/4" Female Pipe	Female Body Half Male Tip Half ISO Body Size Thread Size and Description Maxie   SF495-3 SF491-3 3/8" 3/8" Female Pipe 3,000   FF495-3 FF491-3 3/8" 3/8" Female Pipe 3,000   FF495-3M FF491-3 3/8" 3/8" Female Pipe 10,000   FF495-3-8 FF491-3-8 3/8" 3/4"-16 Female ORB 10,000   FF495-3-1/2 FF491-3-1/2 3/8" 1/2" Female Pipe 10,000   FF495-6 FF491-6 1/2" 3/4" Female Pipe 6,000	Female Body Half Male Tip Half ISO Body Size Thread Size and Description Maximum   FF495-3 SF491-3 3/8" 3/8" Female Pipe 3,000 (207)   FF495-3 FF491-3 3/8" 3/8" Female Pipe 10,000 (690)   FF495-3M FF491-3 3/8" 3/8" Female Pipe 10,000 (690)   FF495-3-8 FF491-3-8 3/8" 3/4"-16 Female ORB 10,000 (690)   FF495-3-1/2 FF491-3-1/2 3/8" 1/2" Female Pipe 10,000 (690)   FF495-6 FF491-6 1/2" 3/4" Female Pipe 6,000 (414)	Female Body Half Male Tip Half ISO Body Size Thread Size and Description Maximum Maximum   SF495-3 SF491-3 3/8" 3/8" Female Pipe 3,000 (207) 10   FF495-3 FF491-3 3/8" 3/8" Female Pipe 10,000 (690) 10   FF495-3A FF491-3 3/8" 3/8" Female Pipe 10,000 (690) 10   FF495-3A FF491-3 3/8" 3/8" Female Pipe 10,000 (690) 10   FF495-3-8 FF491-3-8 3/8" 3/4"-16 Female ORB 10,000 (690) 10   FF495-3-1/2 FF491-3-1/2 3/8" 1/2" Female Pipe 10,000 (690) 10   FF495-6 FF491-6 1/2" 3/4" Female Pipe 10,000 (690) 10	Hale Body Half ISO Tip Half Thread Size Body Size Maximum Maximum   SF495-3 SF491-3 3/8" 3/8" Female Pipe 3,000 (207) 10 (38)   FF495-3 FF491-3 3/8" 3/8" Female Pipe 10,000 (690) 10 (38)   FF495-3A FF491-3 3/8" 3/8" Female Pipe 10,000 (690) 10 (38)   FF495-3A FF491-3 3/8" 3/8" Female Pipe 10,000 (690) 10 (38)   FF495-3-8 FF491-3-8 3/8" 3/4"-16 Female ORB 10,000 (690) 10 (38)   FF495-3-1/2 FF491-3-1/2 3/8" 1/2" Female Pipe 10,000 (690) 10 (38)   FF495-6 FF491-6 1/2" 3/4" Female Pipe 6,000 (414) 12 (45)

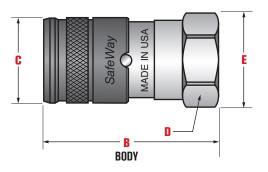
## PERFORMANCE DATA

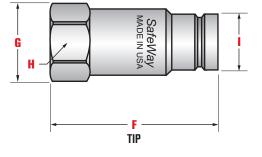
The SF49-3 is produced in 303 series stainless steel with Viton<sup>®</sup> seals standard. Dimensional data is identical to the FF49-3.

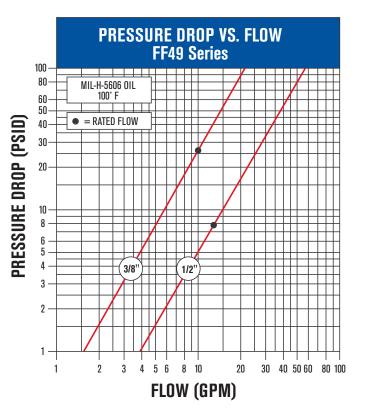
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option (std. in SF49-3) -15° to +450° F Other Seals Available. Viton® is a registered trademark of DuPont Dow Elastomers. Vacuum Data: 27.4 inches Hg. both connected and disconnected.

Pressure rating (Max. Operating Pressure) is based on Non-Pulsating, Low Cycle applications with essentially steady pressure during the operating cycle. Please consult factory regarding other applications.









## **DIMENSIONAL DATA**

DIMENSIONS (inches)											
Complete Coupler Number	Overall Length	Body Length	Diameter	Hex	Diameter	Tip Length	Diameter	Hex	Tip Diameter		
	A	В	C	D	E	F	G	H			
SF49-3	4.19	2.47	1.19	1.12	1.24	2.35	1.04	.94	.78		
FF49-3	4.19	2.47	1.19	1.12	1.24	2.35	1.04	.94	.78		
FF49-3M	4.47	2.75	1.19	1.12	1.24	2.35	1.04	.94	.78		
FF49-3-8	4.56	2.67	1.19	1.12	1.24	2.52	1.18	1.06	.78		
FF49-3-1/2 (was FF49-4)	4.54	2.67	1.19	1.12	1.24	2.50	1.18	1.06	.78		
FF49-6	5.20	3.06	1.50	1.38	1.57	2.81	1.55	1.38	.96		
FF49-6-12	5.60	3.29	1.50	1.38	1.57	2.98	1.55	1.38	.96		

See pages 34-36 for accessories to the FF49 Series.