



QUICK COUPLINGS, COUPLER ADAPTERS & REPLACEMENT TIPS

Engineered, Machined and Assembled in the USA Since 1969

SafeWay[®]
HYDRAULICS, INC.

WARNING STATEMENT



FAILURE, IMPROPER USE OR IMPROPER SELECTION OF THE SYSTEMS AND/OR COMPONENTS DESCRIBED HEREIN MAY CAUSE DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE.

This document, as well as all other catalogs, price lists and information provided by SafeWay Hydraulics, Inc., its subsidiaries or authorized distributors is intended to provide product information and/or system options for further consideration by users having substantial technical expertise. It is imperative that all aspects of any intended use be analyzed and all pertinent information reviewed concerning the component or system in a current product catalog. Due to the variety of operating conditions and applications for these components and systems, the user, through its own analysis, testing and evaluation, is solely responsible for making the final selection of the products and systems and ensuring that all safety, warning and performance requirements of the application or use are met.

The components described herein, including without limitation, all component features, specifications, designs, pricing and availability are subject to change at any time at the sole discretion of SafeWay Hydraulics, Inc. and its subsidiaries at any time without notice.

Safety Guide — Quick Action Couplings

1. **Quick couplings can fail without warning for a variety of reasons. All equipment and systems should be of a fail-safe design to avoid endangering persons and property.**
2. **Any person responsible for selecting or using quick couplings should read and understand this safety guide and have a good understanding of hydraulic system design and maintenance.**
3. **SafeWay, its representatives and distributors do not represent or warrant that any quick coupling is suitable for any specific use. The user, through its own testing and evaluation, is solely responsible for final selection of the products and systems and ensuring that all safety, warning and performance requirement of the application or use are met.**

Coupler Installation

Quick couplings should be located so as not to expose the operator to moving parts, hot parts, the potential of falling, slipping, or other hazardous conditions. Precautions should be taken to not over tighten mating threaded parts during installation.

Locking Mechanism

Ball locking quick couplings can unintentionally disconnect if they are dragged over obstructions while on the end of a hose, or if the sleeve is bumped or moved enough to cause disconnect. Sleeves designed with flanges to provide better gripping for gloved hands are especially susceptible to accidental disconnect and should not be used where these conditions exist. **The sleeve lock option should be considered where there is a potential for unintended uncoupling.**

Thread connection must be fully connected prior to pressurization. Pressure ratings must apply to full connected or fully disconnected quick couplings. **If using a connect-under-pressure style threaded connection quick coupling, adhere to the specified maximum pressure rating for connection-under-pressure** (usually less than 10% of the maximum operating pressure).

Coupler Size

Transmission of power by means of pressurized fluid varies with the system pressure and flow rate. The body size of the coupler must be adequate to keep pressure loss to a minimum to avoid damage due to heat generation or excessive fluid velocity.

Mechanical Loads

Excessive axial and side forces or vibration can reduce coupler life or cause failure.

Pressure

When selecting your quick coupling, make sure its maximum operating pressure is equal to, or greater than, the maximum possible system pressure. **Do not exceed the limits of the coupler.** Pressure impulse can shorten the life of a coupler.

Hose Whip

A short length of hose between the tool and the coupler half should be used instead of a rigid mount. This reduces the potential for coupler damage and provides some isolation from mechanical vibration which could cause accidental uncoupling. Never try to connect or disconnect the coupler when there is pressure in the system unless you are using a quick coupling designed for that purpose.

Environment

Environmental conditions including, but not limited to, moisture, water, chemicals, ozone, ultraviolet radiation and air pollutants can cause degradation of coupling components and premature quick coupling failure. Choose the proper body material for use in the environment in which the system is placed.

Vacuum

Not all quick couplings are suitable or recommended for vacuum service. Quick couplings used in vacuum applications must be selected to ensure that the quick coupling will withstand the vacuum and pressure of the system.

Fluid and Temperature

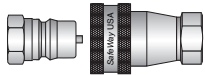
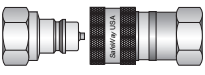
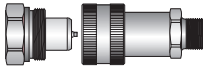

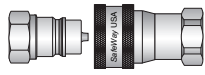


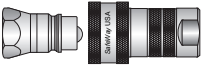

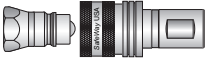
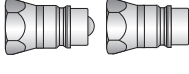
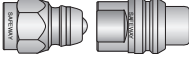

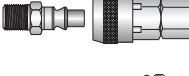

Quick coupling body and seal materials must be compatible with the media and ambient temperature, both steady and transient. **Do not exceed the limits of the coupler.**

Fluid Leaks

Do not go near fluid leaks. High pressure leaks of fluid such as oil easily puncture skin and can cause serious injury, gangrene or death. Relieve pressure before loosening fittings. Do not use fingers or skin to check for leaks. If injured, seek emergency medical help. Immediate surgery is required to remove oil.

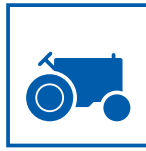
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INDUSTRY APPLICATION SYMBOLS

Application symbols indicate which industry a coupling is typically used in. Although, all couplings can be used in any industry, as long as they meet existing application requirements.



AGRICULTURE



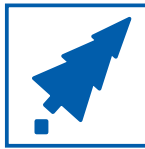
CONSTRUCTION



CHEMICAL
PROCESSING



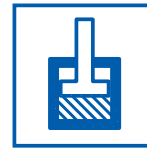
FOOD &
BEVERAGE



FORESTRY



INDUSTRIAL PLANTS



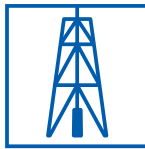
HYDRAULIC JACKS



MAINTENANCE &
REPAIR OPERATIONS



MARINE & DEFENSE



OIL & GAS



RESCUE EQUIPMENT



TRANSPORTATION



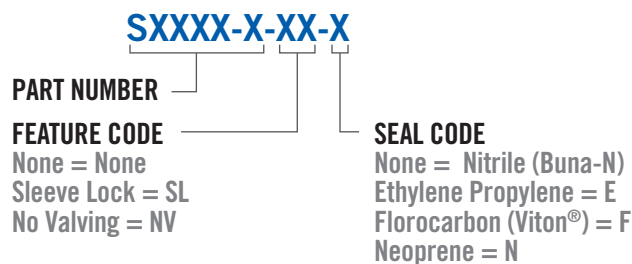
UTILITY

ORDERING INFORMATION

WHEN ORDERING SAFEWAY PRODUCTS PLEASE NOTE THE FOLLOWING:

- Catalog Number.** Nearly all SafeWay quick couplers can be ordered as a complete coupling (male tip half and female body half connected) or as a separate male tip half and female body half. Part numbers are listed in this catalog and in the SafeWay price list.
- Note Options or Special Requirements.** Many of SafeWay's products are available with off-the-shelf options, such as special o-ring compounds for media compatibility and sleeve-lock to prevent accidental disconnection. Please provide the option number and description when placing your order. Do not hesitate to consult with your SafeWay Distributor or the factory about standard and special order options. They will be happy to assist you.
- Actual Quantity.** When placing your order please provide individual part number quantity, not number of boxes, packages or master cartons.

EXAMPLE OF HOW TO SPECIFY SPECIAL FEATURES AND SEAL CODES:



Viton® is a registered trademark of DuPont Dow Elastomers.

PRODUCT OVERVIEW

FEATURES		PRODUCTS									
		S10 Series	S20 Series	SH20 Series	S30 Series	S40 Series	S51 Series	S56 Series	S70 Series	FF49 & SF49	FFE49 Series
CONSTRUCTION											
Plated Steel (1)		✓	✓	✓	✓	✓	✓ Comb (2)	✓	✓	✓	✓
Stainless Steel (303 Series)		✓								✓ SF49-3	
Brass		✓					✓ Comb (2)				
Standard Buna-N Seals (-40° to +250° F)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Standard Viton® Seals (-15° to +450° F)										✓ SF49-3	
Viton® (F) Option (-15° to +450° F)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EPR (E) Option (-70° to +300° F)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Other Seal Options		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flush-Face Design										✓ (5)	✓ (5)
Screw-Together (Thread to Connect)					✓		✓				
Wing Nut or Hex Nut Sleeve							✓				
Two-Way Sliding Sleeve						✓			✓		
PERFORMANCE (Consult Specifications for Details) NOTE: K = 1,000 PSI											
Maximum Operating Pressure (PSI) (1)	Steel (1)	3K-5K	3K-4K	6K	10K	3K-4K	2.5K-3K	4K-5K	3K	6K-10K	3K-5K
	Stainless Steel	2K-5K								3K	
	Brass	1.6K-4K									
NFPA Rated Flow (GPM) (3)		0.8-50	3-50	3	3-6	3-12	12-76	3-50	12	6-28	3-50
AVAILABLE BODY SIZE	STANDARD THREADS										
1/8"	Pipe Thread (4)	✓									
	O-Ring Boss (4)										
1/4"	Pipe Thread (4)	✓	✓	✓	✓	✓		✓			✓
	O-Ring Boss (4)	✓		✓							✓
3/8"	Pipe Thread (4)	✓	✓	✓	✓	✓		✓		✓	✓
	O-Ring Boss (4)	✓						✓		✓	✓
	Metric Thread (4)					✓					
1/2"	Pipe Thread (4)	✓	✓			✓	✓	✓	✓	✓	✓
	O-Ring Boss (4)	✓	✓			✓		✓	✓		✓
	BSPP Thread (4)					✓			✓		
3/4"	Pipe Thread (4)	✓	✓				✓	✓		✓	✓
	O-Ring Boss (4)	✓						✓		✓	✓
1"	Pipe Thread (4)	✓	✓				✓	✓			✓
	O-Ring Boss (4)	✓						✓			✓
1-1/4"	Pipe Thread (4)						✓				
	O-Ring Boss (4)										
INTERCHANGEABLE WITH: (6)											
Aeroquip Series		FD45	FD42			FD71	FD51	FD56	FD72	FD49	FD89
Enerpac/Power Team Series					C-604/9795					9794 (PT)	
Hansen Series		HK			WA56000		96	HA15000		QA29000	FF
Holmbury Series		ISO.B				PP		ISO.A		FIRG	FIRG & FIMC
Parker Series		60					6100	6600		FF (3/8")	FEM
Parker (Pioneer) Series			4000		3000	4200			8200		
Parker (Bruning) Series				SM						FE (1/2")	
Snap-tite Series		72	60		76	61	78	61	68	74	74

- NOTES:**
- (1) For high pressure applications, product typically machined from high strength carbon steel.
 - (2) S51 Series is available in brass or electroless nickel plated steel (-STL). Both include brass valving & ductile cast iron wing nut or steel hex nut.
 - (3) Varies by body size—consult catalog, SafeWay website or factory regarding specific applications.
 - (4) Consult catalog or SafeWay website for available Pipe Thread, O-Ring Boss (ORB), BSPP and Metric sizes.
 - (5) Both the FF49 Series and FFE49 Series meet the dimensional requirements of International Standard ISO 16028.
 - (6) Consult interchange catalog, SafeWay web site or the factory for specific interchange details.

Disclaimer: Interchange information is based on SafeWay products that interconnect due to dimensional compatibility. It does not take into account substantial differences in maximum operating psi and performance between brands or specific features unique to a given brand. Product part numbers and specifications change frequently. Please consult SafeWay's web site (www.safewayhyd.com) or Customer Service regarding interchangeability and technical information.

Viton® is a registered trademark of DuPont Dow Elastomers.

S10 Series



QUICK COUPLERS IN HARDENED STEEL, 303 STAINLESS STEEL & BRASS

SafeWay's S10 Series is a general purpose, double shut-off quick coupling capable of containing a wide variety of fluids. Primarily used for the transfer of hydraulic fluid, they can also be used with water, steam, chemicals and some gases. Widely used in both stationary and mobile industrial applications.



- Meets dimensional requirements of ISO 7241-1 Series B, the most widely used Industrial Interchange.
- Available in body sizes from 1/8" to 1" with pipe thread and SAE O-Ring Boss (ORB) standard.
- Standard materials are steel, 303 stainless steel and brass. When ordering please add a prefix for either stainless steel or brass. Example: S105-2 becomes SS105-2 in stainless steel and BS105-2 in brass.
- Interchangeable half-for-half with Aeroquip FD45, Hansen HK, and Parker 60 Series as well as others conforming to this interchange.
- Double shut-off poppet style valving with captive poppet seal provides a durable, guaranteed leak-free seal.
- Full-flow design for optimum system performance.
- All S10 Series quick couplings are 100% leak tested.
- Heavy-duty detent ball latch design for a reliable connection time after time.
- Seals for most fluids available upon request.
- Only rugged, high quality carbon steel valving and retainers; no powdered metal parts.
- Brass and stainless steel S10 Series couplers are supplied with hardened stainless steel locking detent balls, poppet valve springs and retaining rings for increased corrosion resistance.
- Sleeve lock, one-way shut-off, and straight-thru designs are available.
- Heavy-duty steel dust caps and dust plugs are available for the male tip halves and female body halves.
- Field repair kits are available for 3/4" and 1" couplers in all materials and O-ring compounds.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods*.

PERFORMANCE DATA

STEEL PART NUMBERS			DESCRIPTION		MAXIMUM OPERATING PRESSURE						NFPA RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Thread Size and Description	Steel (S)		Stainless (SS)		Brass (BS)		GPM	(LPM)
					PSI	(BAR)	PSI	(BAR)	PSI	(BAR)		
S10-1	S105-1	S101-1	1/8"	1/8" Female Pipe	5,000	(345)	5,000	(345)	3,000	(207)	0.8	(3)
S10-2	S105-2	S101-2	1/4"	1/4" Female Pipe	5,000	(345)	5,000	(345)	4,000	(276)	3	(12)
S10-2-6	S105-2-6	S101-2-6	1/4"	9/16"-18 Female ORB	5,000	(345)	5,000	(345)	4,000	(276)	3	(12)
S10-3	S105-3	S101-3	3/8"	3/8" Female Pipe	4,000	(276)	5,000	(345)	3,000	(207)	6	(23)
S10-3-8	S105-3-8	S101-3-8	3/8"	3/4"-16 Female ORB	4,000	(276)	5,000	(345)	3,000	(207)	6	(23)
S10-4	S105-4	S101-4	1/2"	1/2" Female Pipe	4,000	(276)	5,000	(345)	3,500	(241)	12	(45)
S10-4-10	S105-4-10	S101-4-10	1/2"	7/8"-14 Female ORB	4,000	(276)	5,000	(345)	3,500	(241)	12	(45)
S10-6	S105-6	S101-6	3/4"	3/4" Female Pipe	3,500	(241)	3,000	(207)	2,300	(159)	28	(106)
S10-6-12	S105-6-12	S101-6-12	3/4"	1-1/16"-12 Female ORB	3,500	(241)	3,000	(207)	2,300	(159)	28	(106)
S10-8	S105-8	S101-8	1"	1" Female Pipe	3,000	(207)	2,000	(138)	1,600	(110)	50	(189)
S10-8-16	S105-8-16	S101-8-16	1"	1-5/16"-12 Female ORB	3,000	(207)	2,000	(138)	1,600	(110)	50	(189)

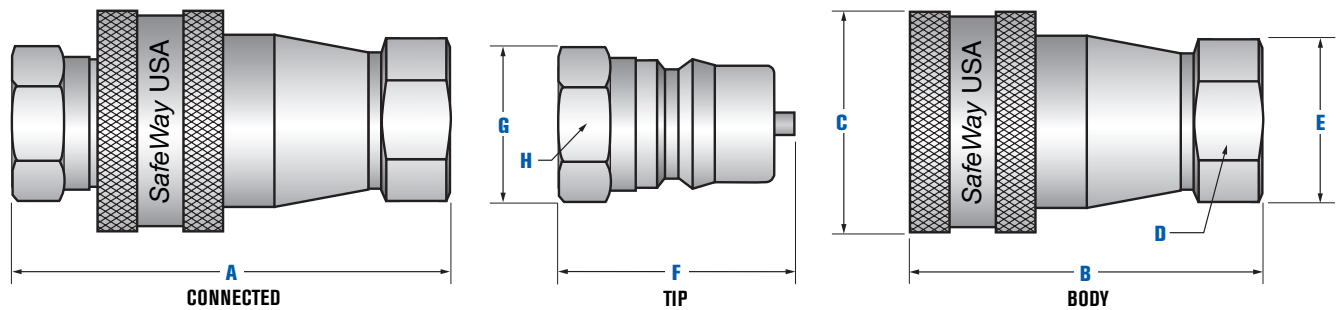
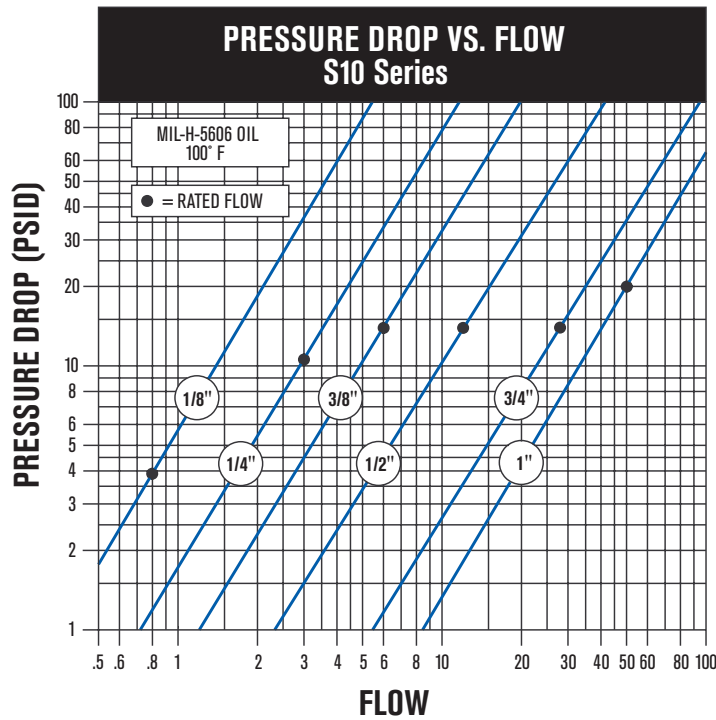
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option -15° to +450° F EPR Option -70° to +300° F
 Vacuum Data: 27.4 inches Hg. both connected and disconnected - all sizes.

Viton® is a registered trademark of DuPont Dow Elastomers.

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.

GENERAL PURPOSE INDUSTRIAL INTERCHANGE QUICK COUPLINGS

S10 SERIES



DIMENSIONS (inches)								
Complete Coupler Number	Overall Length	Body Length	Diameter	Wrench Flat	Diameter	Tip Length	Diameter	Hex
	A	B	C	D	E	F	G	H
S10-1	2.32	1.89	.93	.56	.66	1.25	.65	.56
S10-2	2.78	2.23	1.14	.75	.88	1.52	.86	.75
S10-2-6	2.90	2.29	1.14	.87	.97	1.58	1.01	.88
S10-3	3.03	2.48	1.39	.87	1.00	1.68	1.01	.88
S10-3-8	3.43	2.68	1.39	1.00	1.22	1.88	1.15	1.00
S10-4	3.47	2.80	1.76	1.12	1.29	1.88	1.23	1.06
S10-4-10	3.67	2.90	1.76	1.12	1.29	1.98	1.44	1.25
S10-6	4.00	3.37	2.13	1.31	1.63	2.26	1.52	1.31
S10-6-12	4.20	3.47	2.13	1.37	1.67	2.36	1.59	1.38
S10-8	4.73	3.94	2.51	1.62	1.88	2.69	1.88	1.63
S10-8-16	4.93	4.04	2.51	1.75	1.98	2.79	1.88	1.63

See pages 27 and 28 for accessories to the S10 Series.

SH20 Series



GENERAL PURPOSE HYDRAULIC & FLUID TRANSFER COUPLINGS

The SH20 Series is a general purpose, double shut-off quick coupling capable of containing a wide variety of fluids. This series can be found anywhere a dependable connection and disconnection of a fluid transfer line is required. Through the years, this interchange has been widely used on both mobile and industrial applications. They can be found on garden tractors, self-propelled combines, skid-steer loaders, wire pullers, and hydraulic presses.



- Leak-free poppet valve or rugged ball style valve available.
- Rated at 6,000 psi maximum operating pressure.
- Compact design with smooth, reliable ball latch connection.
- Interchangeable half-for-half with the Parker/Bruning SM Series and Aeroquip FD48 Series of quick couplings.
- Poppet valve models are 100% leak tested.
- Heavy-duty double shut-off valve design available with either soft seat poppet style valving or ball valve.
- Poppet valve models feature our high flow poppet design with fully captured poppet seal to eliminate seal washout and leakage.
- Available in 1/4" body size with female threads. Both pipe threads and SAE O-Ring Boss (ORB) are available in a variety of sizes as standard.
- SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.
- Critical parts are hardened for long service life.
- Machined from solid high carbon steel barstock.
- Heavy-duty dust plugs and dust caps are available.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods.*

PERFORMANCE DATA

PART NUMBERS			DESCRIPTION		OPERATING PRESSURE		RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Thread Size and Description	Maximum		GPM	(LPM)
					PSI	(BAR)		
SH20-2	SH25-2	SH21-2	1/4"	1/4" Female Pipe	6,000	(414)	3	(12)
SH20-2P	SH25-2P	SH21-2P	1/4"	1/4" Female Pipe	6,000	(414)	3	(12)
SH20-14	SH25-14	SH21-14	1/4"	9/16"-18 Female ORB	6,000	(414)	3	(12)
SH20-14P	SH25-14P	SH21-14P	1/4"	9/16"-18 Female ORB	6,000	(414)	3	(12)
SH20-2-3P	SH25-2-3P	SH21-2-3P	1/4"	3/8" Female Pipe	6,000	(414)	3	(12)

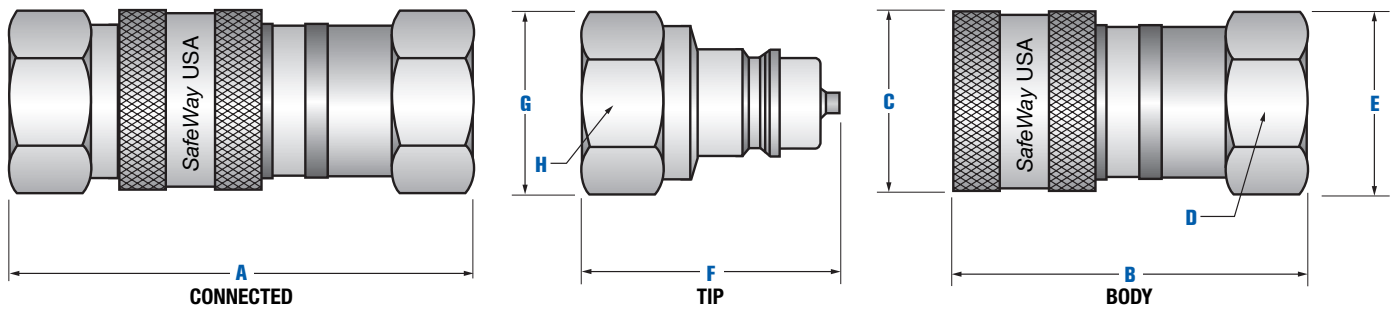
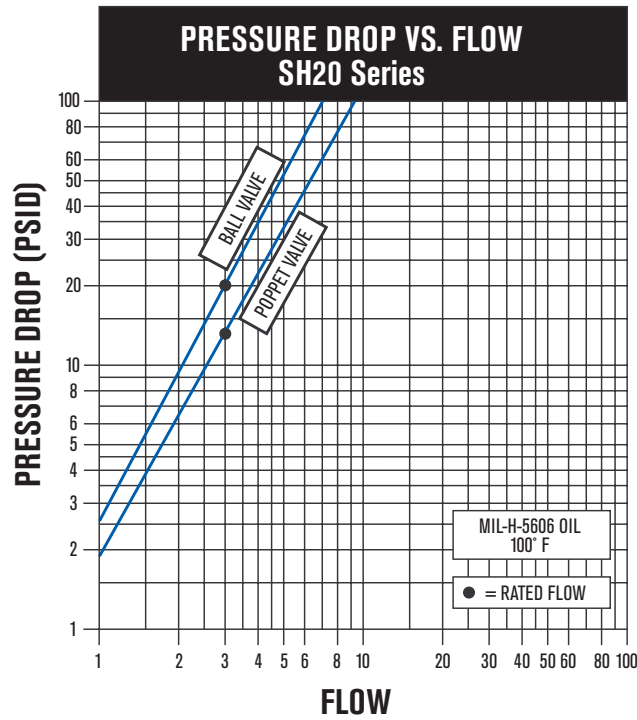
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option -15° to +450° F Other Seals Available.
 Vacuum Data: 27.4 inches Hg, both connected and disconnected – Poppet valved models in all sizes (P suffix).

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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.

GENERAL PURPOSE BRUNING SM SERIES INTERCHANGE COUPLINGS

SH20 SERIES



DIMENSIONS (inches)								
Complete Coupler Number	Overall Length A	Body Length B	Diameter C	Wrench Flat D	Diameter E	Tip Length F	Diameter G	Hex H
SH20-2	2.52	1.94	1.09	.75	.88	1.32	.86	.75
SH20-2P	2.52	1.94	1.09	.75	.88	1.35	.86	.75
SH20-14	2.52	1.94	1.09	.75	.88	1.32	.86	.75
SH20-14P	2.52	1.94	1.09	.75	.88	1.35	.86	.75
SH20-2-3P	2.92	2.14	1.09	.94	1.06	1.57	1.08	.94

See pages 27 and 28 for accessories to the SH20 Series.

S30 Series



DEPENDABLE HIGH PRESSURE & HIGH FLOW WORKHORSE

The S30 Series is a special purpose, double shut-off fluid transfer quick coupling that provides significantly less pressure drop than couplings of the same type produced by other manufacturers. A threaded sleeve locking mechanism mates the coupling halves and allows connection under pressure up to a maximum of 1,000 psi. Our heavy-duty poppet valving, while fully interchangeable with ball check models (including older SafeWay product), eliminates low pressure leakage. The S30 is designed for extreme high pressure applications including portable hydraulic rams, wire pullers, and frame straightening equipment.



- SafeWay's S30 Series outperforms other brands by 100%!
- Full-flow design provides less than half the pressure loss of other brands, allowing for quicker ram response.
- Meets dimensional requirements of this accepted interchange.
- Interchangeable half-for-half with the Parker/Pioneer 3000 Series and Enerpac C-604.
- Available in 1/4" and 3/8" body size with pipe thread standard.
- Poppet style valving with double shut-off. Captive poppet seal provides a durable, guaranteed leak-free seal.
- All S30 Series quick couplings are 100% leak tested.
- Fully interchangeable, half-for-half, with ball check designs.
- Machined from solid steel barstock.
- SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.
- Designed for extreme high pressure applications such as portable hydraulic rams, wire pullers, etc.
- Rated working pressure of 10,000 psi in all sizes. Threaded sleeve locking mechanism mates coupling halves. Couplings can be connected under pressure up to 1,000 psi.
- Heavy-duty steel dust caps and dust plugs are available.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods*.

PERFORMANCE DATA

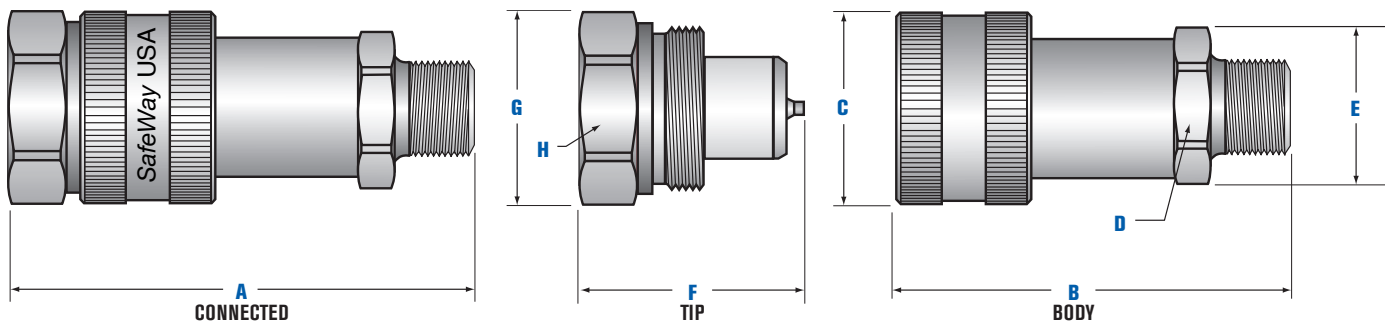
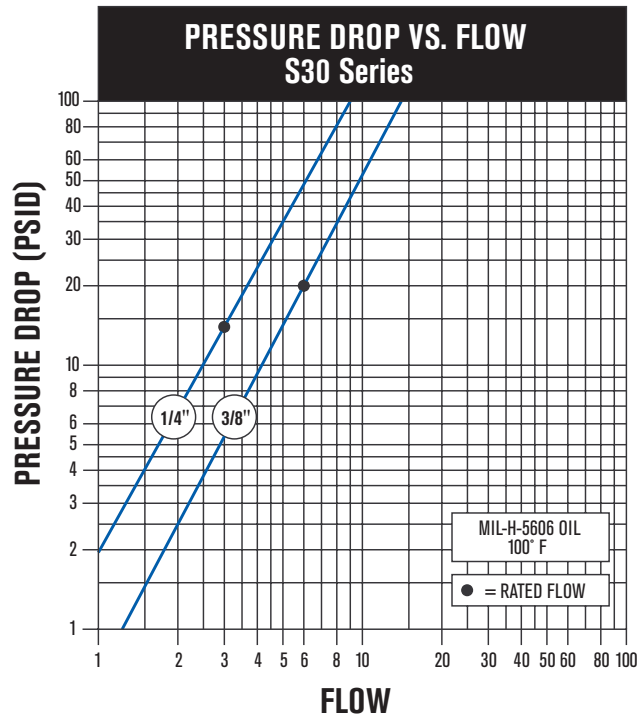
PART NUMBERS			DESCRIPTION		OPERATING PRESSURE		RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Thread Size and Description	Maximum		GPM	(LPM)
					PSI	(BAR)		
S30-2P	S35-2P	S31-2P	1/4"	1/4" F/M Pipe	10,000	(690)	3	(12)
S30-3P	S35-3P	S31-3P	3/8"	3/8" F/M Pipe	10,000	(690)	6	(23)

Temperature Range: Standard Seals (Buna-N) -40° to +250° F Polyurethane Option -40° to +212° F
 Vacuum Data: 27.4 inches Hg, both connected and disconnected – all sizes.

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.

SCREW TOGETHER, HIGH PRESSURE FOR PORTABLE HYDRAULIC RAMS

S30 SERIES



DIMENSIONS (inches)								
Complete Coupler Number	Overall Length A	Body Length B	Diameter C	Hex D	Diameter E	Tip Length F	Diameter G	Wrench Hex H
S30-2P	2.78	2.27	1.19	.81	.93	1.36	1.06	.87
S30-3P	3.35	2.82	1.38	1.00	1.12	1.65	1.40	1.25

See pages 27 and 28 for accessories to the S30 Series.

S51 Series



HEAVY-DUTY, DOUBLE SHUT-OFF QUICK COUPLING

SafeWay's S51 Series is a minimum spill, thread-to-connect, fluid transfer quick coupling designed for use with most industrial fluids. It can be connected under full system pressure by rotating the female threaded heavy-duty ductile cast iron wing nut or brass hex nut onto the mating male threaded tip (nipple).



- Applications include “wet-line-kits” used widely on dump trailers, mobile drilling rigs, mining equipment, large mobile equipment, salt spreaders, and chemical transfer units.
- Minimum air inclusion during connection and minimum fluid spillage during disconnection.
- Interchangeable half-for-half with the Parker 6100 Series, Aeroquip FD51 (5100) Series, and Snap-tite 78 Series.
- Brass body tip and poppet combined with a rugged steel valve for corrosion resistance and durability.
- Optional electroless nickel plated steel (-STL) tip and body shell is combined with standard internal parts and locking mechanism to provide a rugged less costly alternative that is well suited for most applications.
- All S51 Series quick couplings are 100% leak tested.
- Connection-under-pressure can be accomplished due to our heavy-duty poppet assembly with bonded valve seals.
- A rugged, high quality machined carbon steel valve; no powdered metal parts.
- Available with either a ductile cast iron wing nut or heavy duty brass hex nut to perform a threaded connection.
- SafeWay's Ductile Cast Iron Wing Nut is specifically built to withstand hammer blows associated with connection and disconnection under pressure.
- Available heavy-duty flange provides a simple and reliable method of bulkhead mounting the quick coupling.
- Completely field serviceable with seal repair kits.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods.*

PERFORMANCE DATA

PART NUMBERS			DESCRIPTION			OPERATING PRESSURE		RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Locking Style	Thread Size and Description	Maximum		GPM	(LPM)
						PSI	(BAR)		
S51W-6	S515W-6	S511-6	3/4"	Wing	3/4" Female Pipe	3,000	(207)	28	(106)
S51H-6	S515H-6	S511-6	3/4"	Hex Nut	3/4" Female Pipe	3,000	(207)	28	(106)
S51W-6-STL	S515W-6-STL	S511-6-STL	3/4"	Wing	3/4" Female Pipe	3,000	(207)	28	(106)
S51H-6-STL	S515H-6-STL	S511-6-STL	3/4"	Hex Nut	3/4" Female Pipe	3,000	(207)	28	(106)
S51W-8	S515W-8	S511-8	1"	Wing	1" Female Pipe	3,000	(207)	50	(189)
S51H-8	S515H-8	S511-8	1"	Hex Nut	1" Female Pipe	3,000	(207)	50	(189)
S51W-8-STL	S515W-8-STL	S511-8-STL	1"	Wing	1" Female Pipe	3,000	(207)	50	(189)
S51H-8-STL	S515H-8-STL	S511-8-STL	1"	Hex Nut	1" Female Pipe	3,000	(207)	50	(189)
S51W-10	S515W-10	S511-10	1-1/4"	Wing	1-1/4" Female Pipe	2,500	(172)	76	(288)
S51H-10	S515H-10	S511-10	1-1/4"	Hex Nut	1-1/4" Female Pipe	2,500	(172)	76	(288)
S51W-10-STL	S515W-10-STL	S511-10-STL	1-1/4"	Wing	1-1/4" Female Pipe	2,500	(172)	76	(288)
S51H-10-STL	S515H-10-STL	S511-10-STL	1-1/4"	Hex Nut	1-1/4" Female Pipe	2,500	(172)	76	(288)

-STL has an electroless nickel plated steel body and tip shell with standard internal parts.

Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option -15° to +450° F Other Seals Available.

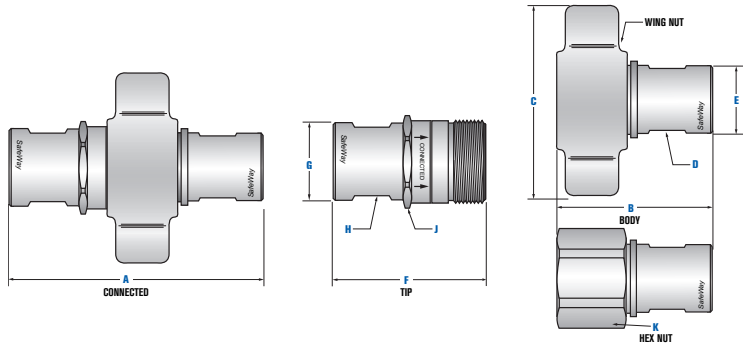
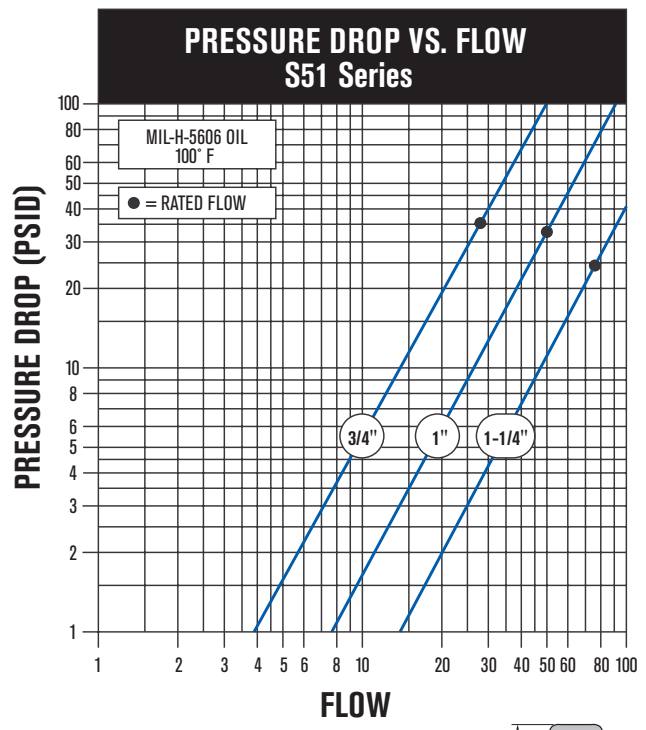
Vacuum Data: 27.4 inches Hg, both connected and disconnected – all sizes.

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.

Viton® is a registered trademark of DuPont Dow Elastomers.

SCREW TOGETHER MAXIMUM FLOW WITH MINIMAL SPILLAGE

S51 SERIES



DIMENSIONS (inches)										
Complete Coupler Number	Overall Length	Body Length	Wing Nut Length	Wrench Flat	Diameter	Tip Length	Diameter	Wrench Flat	Hex	Hex
	A	B	C	D	E	F	G	H	J	K
S51W-6	4.75	2.72	4.06	1.16	1.25	3.05	1.36	1.16	1.62	-
S51H-6	4.75	2.72	-	1.16	1.25	3.05	1.36	1.16	1.62	1.75
S51W-6-STL	4.75	2.72	4.06	1.16	1.25	3.05	1.36	1.16	1.62	-
S51H-6-STL	4.75	2.72	-	1.16	1.25	3.05	1.36	1.16	1.62	1.75
S51W-8	5.40	3.32	4.38	1.43	1.56	3.30	1.74	1.56	1.88	-
S51H-8	5.40	3.32	-	1.43	1.56	3.30	1.74	1.56	1.88	2.12
S51W-8-STL	5.40	3.32	4.38	1.43	1.56	3.30	1.74	1.56	1.88	-
S51H-8-STL	5.40	3.32	-	1.43	1.56	3.30	1.74	1.56	1.88	2.12
S51W-10	5.69	3.66	5.20	1.77	1.89	3.42	2.08	1.88	2.12	-
S51H-10	5.69	3.66	-	1.77	1.89	3.42	2.08	1.88	2.12	2.50
S51W-10-STL	5.69	3.66	5.20	1.77	1.89	3.42	2.08	1.88	2.12	-
S51H-10-STL	5.69	3.66	-	1.77	1.89	3.42	2.08	1.88	2.12	2.50

-STL has an electroless nickel plated steel body and tip shell with standard internal parts.

See pages 27 and 28 for accessories to the S51 Series.

S56 Series



VERSATILE HYDRAULIC & FLUID TRANSFER COUPLINGS

SafeWay's S56 Series is a general purpose, double shut-off quick coupling capable of containing a wide variety of fluids. This series can be found anywhere a dependable connection and disconnection of a fluid transfer line is required. Rugged construction and low pressure drop make this series ideal for a variety of applications including plant maintenance equipment, skid-steer loaders, snow plows, mining, dump trucks, gooseneck trailers and chemical transfer lines.



- Meets dimensional requirements of ISO 7241-1 Series A.
- A general purpose, fluid transfer quick coupling that provides higher burst pressure and superior flow to that of Aeroquip FD56 (5600) series and Parker 6600 series, while providing half-for-half interchangeability.
- Due to SafeWay's unique poppet style valving, the S56 Series has a shorter overall length and less weight than other brands they replace.
- Manufactured from high quality hardened carbon steel.
- SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.
- Operating pressure is 4,000 psi (5,000 psi in the 1/4" size).
- Available in body sizes from 1/4" to 1" with pipe thread and SAE O-Ring Boss (ORB) standard.
- All S56 Series quick couplings are 100% leak tested.
- Ideal for minimal space applications.
- Heavy-duty dust plugs and dust caps available.
- Heavy-duty detent ball latch design for reliable connection time after time.
- The S56 Series uses high quality carbon steel in its valving and retainers; no powdered metal parts. A higher number of detent (locking) balls and a specially hardened male tip (nipple) add to the overall integrity of the product and its higher rated working pressure.
- Unique poppet/seat design allows no extrusion gap, minimizing seal degradation under extreme pressures. Stainless steel valve springs and retainer rings are standard.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods*.

PERFORMANCE DATA

PART NUMBERS			DESCRIPTION		OPERATING PRESSURE		RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Thread Size and Description	Maximum		GPM	(LPM)
					PSI	(BAR)		
S56-2	S565-2	S561-2	1/4"	1/4" Female Pipe	5,000	(345)	3	(12)
S56-3	S565-3	S561-3	3/8"	3/8" Female Pipe	4,500	(310)	6	(23)
S56-3-6	S565-3-6	S561-3-6	3/8"	9/16"-18 Female ORB	4,500	(310)	6	(23)
S56-4	S565-4	S561-4	1/2"	1/2" Female Pipe	4,000	(276)	12	(45)
S56-4-8	S565-4-8	S561-4-8	1/2"	3/4"-16 Female ORB	4,000	(276)	12	(45)
S56-4-10	S565-4-10	S561-4-10	1/2"	7/8"-14 Female ORB	4,000	(276)	12	(45)
S56-6	S565-6	S561-6	3/4"	3/4" Female Pipe	4,000	(276)	28	(106)
S56-6-12	S565-6-12	S561-6-12	3/4"	1-1/16"-12 Female ORB	4,000	(276)	28	(106)
S56-8	S565-8	S561-8	1"	1" Female Pipe	4,000	(276)	50	(189)
S56-8-16	S565-8-16	S561-8-16	1"	1-5/16"-12 Female ORB	4,000	(276)	50	(189)

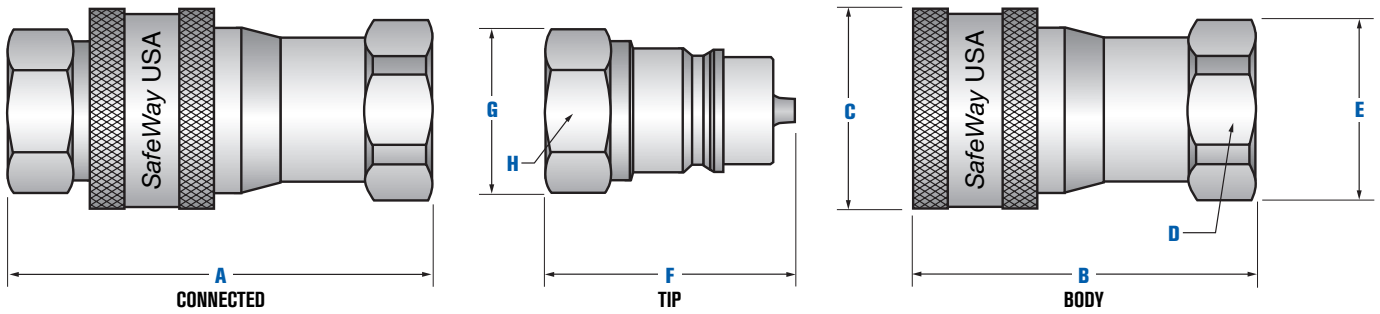
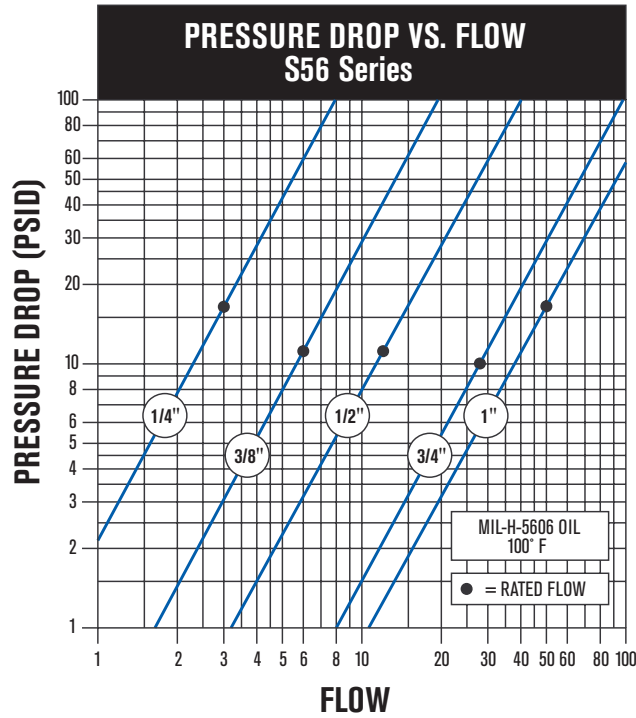
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option -15° to +450° F Other Seals Available.
 Vacuum Data: 27.4 inches Hg, both connected and disconnected – Poppet valved models in all sizes (P suffix).

Viton® is a registered trademark of DuPont Dow Elastomers.

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.

COMPACT DESIGN, HIGH FLOW, HIGH WORKING PRESSURE

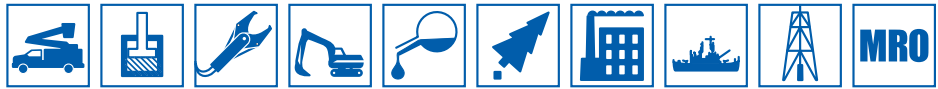
S56 SERIES



DIMENSIONS (inches)								
Complete Coupler Number	Overall Length A	Body Length B	Diameter C	Hex D	Diameter E	Tip Length F	Diameter G	Hex H
S56-2	2.48	1.79	1.07	.88	.96	1.31	.86	.75
S56-3	3.02	2.20	1.26	1.06	1.18	1.65	1.01	.88
S56-3-6	3.22	2.30	1.26	1.06	1.18	1.75	1.01	.88
S56-4	3.46	2.56	1.50	1.25	1.35	1.88	1.23	1.06
S56-4-8	3.56	2.61	1.50	1.25	1.35	1.93	1.23	1.06
S56-4-10	3.76	2.71	1.50	1.25	1.35	2.03	1.23	1.06
S56-6	3.98	3.04	1.89	1.38	1.58	2.26	1.58	1.38
S56-6-12	4.18	3.14	1.89	1.38	1.58	2.36	1.58	1.38
S56-8	4.73	3.66	2.13	1.63	1.87	2.69	1.87	1.63
S56-8-16	4.93	3.76	2.13	1.63	1.87	2.79	1.87	1.63

See pages 27 and 28 for accessories to the S56 Series.

FF49 Series



FLUSH FACE, HEAVY DUTY, NON-SPILL QUICK COUPLINGS

The FF49 Series quick couplings provide rugged-flush-face 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 3/4" FF49-6 and FF49-6-12 are rated at 6,000 operating psi and have a significantly smaller foot-print 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 International Standard 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 3/4" 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.
- SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.
- Provides significantly higher working pressure than couplers we replace, with equal or better flow.
- Flush face valving for non-spill dry breaks with low air inclusion; and easy cleaning to minimize system contamination.
- Nitrile seals are standard. Seals made of Viton® are standard in the SF49-3.
- All FF49 Series quick couplings are 100% leak tested.
- Unique double seals behind the coupler sleeve prevent contamination from reaching critical toleranced parts. Reliability under conditions that would render other brands inoperable.
- Maximum flow for quick system response.
- 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 3/4" 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.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods*.

PERFORMANCE DATA

PART NUMBERS			DESCRIPTION			OPERATING PRESSURE		RATED FLOW		MAX. SPILLAGE
Complete Coupler	Female Body Half	Male Tip Half	ISO Body Size	Body Size	Thread Size and Description	Maximum		GPM	(LPM)	(per disconnect)
						PSI	(BAR)			CC
SF49-3	SF495-3	SF491-3	3/8"	3/8"	3/8" Female Pipe	3,000	(207)	10	(38)	.02
FF49-3	FF495-3	FF491-3	3/8"	3/8"	3/8" Female Pipe	10,000	(690)	10	(38)	.02
FF49-3M	FF495-3M	FF491-3	3/8"	3/8"	3/8" F/M Pipe	10,000	(690)	10	(38)	.02
FF49-3-8	FF495-3-8	FF491-3-8	3/8"	3/8"	3/4"-16 Female ORB	10,000	(690)	10	(38)	.02
FF49-4	FF495-4	FF491-4	3/8"	3/8"	1/2" Female Pipe	10,000	(690)	10	(38)	.02
FF49-6	FF495-6	FF491-6	1/2"	3/4"	3/4" Female Pipe	6,000	(414)	28	(106)	.04
FF49-6-12	FF495-6-12	FF491-6-12	1/2"	3/4"	1-1/16"-12 Female ORB	6,000	(414)	28	(106)	.04

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

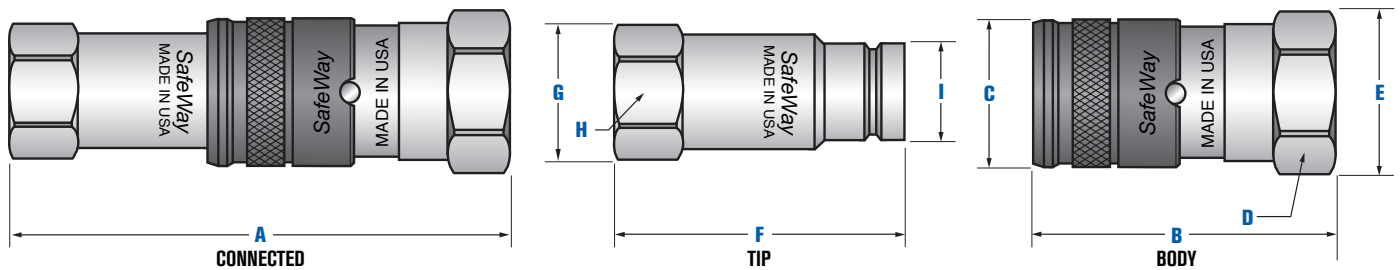
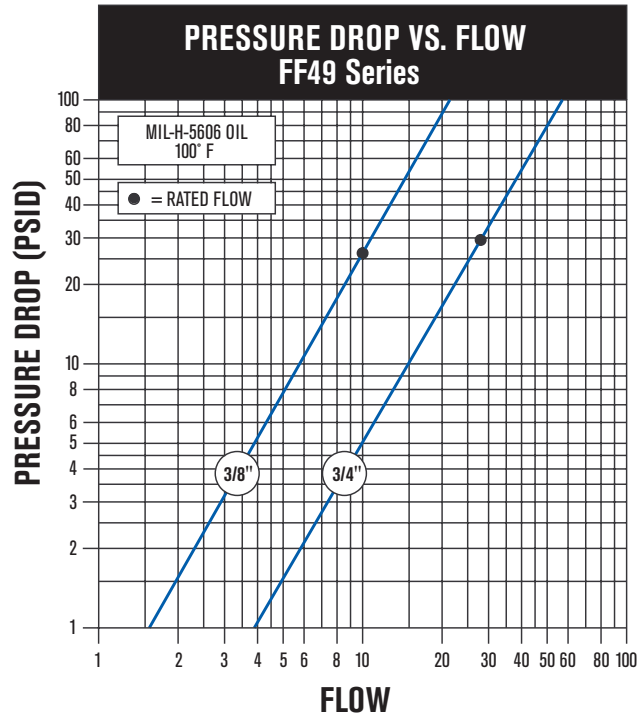
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option (std. in SF49-3) -15° to +450° F
 Vacuum Data: 27.4 inches Hg. both connected and disconnected - all sizes.

Viton® is a registered trademark of DuPont Dow Elastomers.

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.

HIGH PRESSURE & HIGH FLOW WITHOUT SPILLAGE

FF49 SERIES



Complete Coupler Number	DIMENSIONS (inches)								
	Overall Length	Body Length	Diameter	Hex	Diameter	Tip Length	Diameter	Hex	Tip Diameter
	A	B	C	D	E	F	G	H	I
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
FF49-4	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 27 and 28 for accessories to the FF49 Series.

FFE49 Series



FLUSH FACE, NON-SPILL QUICK COUPLINGS

SafeWay's FFE49 Series is a non-spill, push-to-connect, fluid transfer quick coupling designed for use with most industrial fluids. This series is interchangeable with quick couplings meeting International Standard ISO 16028 dimensional requirements, and our field proven, heavy-duty FF49 Series. Some basic applications include skid-steer loaders, power utility equipment, construction equipment, agricultural equipment, and hydraulic hand tools. Use this quick coupling series whenever spillage can result in a safety or environmental hazard, when air inclusion during connection to a hydraulic system cannot be tolerated, and when international interchangeability with other brands is required.



- Smooth, one hand, push-to-connect locking mechanism.
- Minimum air inclusion during connection and minimum fluid spillage during disconnection.
- Interchangeable half-for-half with Parker FEM Series, Aeroquip FD89, Holmbury FIRG and FIMC Series, Faster 2FFI Series, and others conforming to International Standard ISO 16028 dimensional requirements.
- Rugged Flush Face valving allows easy cleaning to minimize system contamination.
- Maximum flow for quick system response.
- Available in ISO 1/4" through ISO 1" body size in a variety of thread sizes and styles.
- If you require a 3/8" size please use the FF49 Series, which meets the interchange requirements of ISO 16028 while providing higher operating psi. Sleeve lock is standard.
- Anti-blowout Buna and Teflon® tip half seal reduces the likelihood of premature failure due to connection under residual system pressure. This residual system pressure is 250 psi max. in the 3/8" body size and higher in the other sizes.
- SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.
- All FFE49 Series quick couplings are 100% leak tested before leaving the factory.
- Heat treated surfaces resist wear.
- Sleeve lock option, to minimize accidental disconnect, is available upon request.
- Method of obtaining and presenting performance data conforms to ANSI (NFPA) T3.20.2.R2, *Hydraulic fluid power - Quick action couplings - Test methods.*

PERFORMANCE DATA

PART NUMBERS			DESCRIPTION		OPERATING PRESSURE		NFPA RATED FLOW		MAX. SPILLAGE
Complete Coupler	Female Body Half	Male Tip Half	ISO Body Size	Thread Size and Description	Maximum		GPM	(LPM)	(per disconnect)
					PSI	(BAR)			CC
FFE49-2	FFE495-2	FFE491-2	1/4"	1/4" Female NPT	5,000	(345)	3	(12)	.01
FFE49-4	FFE495-4	FFE491-4	1/2"	1/2" Female NPT	4,000	(276)	12	(45)	.04
FFE49-4-3/4	FFE495-4-3/4	FFE491-4-3/4	1/2"	3/4" Female NPT	4,000	(276)	12	(45)	.04
FFE49-4-12	FFE495-4-12	FFE491-4-12	1/2"	1-1/16"-12 Female ORB	4,000	(276)	12	(45)	.04
FFE49-6	FFE495-6	FFE491-6	3/4"	3/4" Female NPT	4,000	(276)	26	(100)	.10
FFE49-6-1	FFE495-6-1	FFE491-6-1	3/4"	1" Female NPT	4,000	(276)	26	(100)	.10
FFE49-6-16	FFE495-6-16	FFE491-6-16	3/4"	1-5/16"-12 Female ORB	4,000	(276)	26	(100)	.10
FFE49-8	FFE495-8	FFE491-8	1"	1" Female NPT	3,000	(207)	50	(189)	.20
FFE49-8-114	FFE495-8-114	FFE491-8-114	1"	1-1/4" Female NPT	3,000	(207)	50	(189)	.20
FFE49-8-20	FFE495-8-20	FFE491-8-20	1"	1-5/8"-12 Female ORB	3,000	(207)	50	(189)	.20

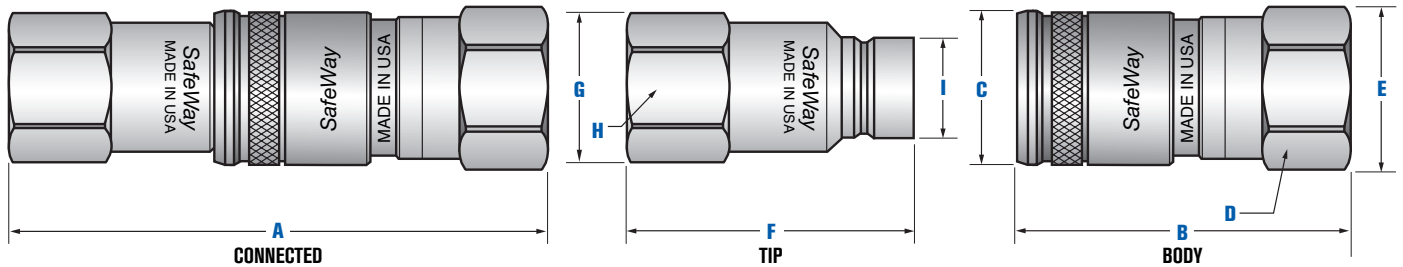
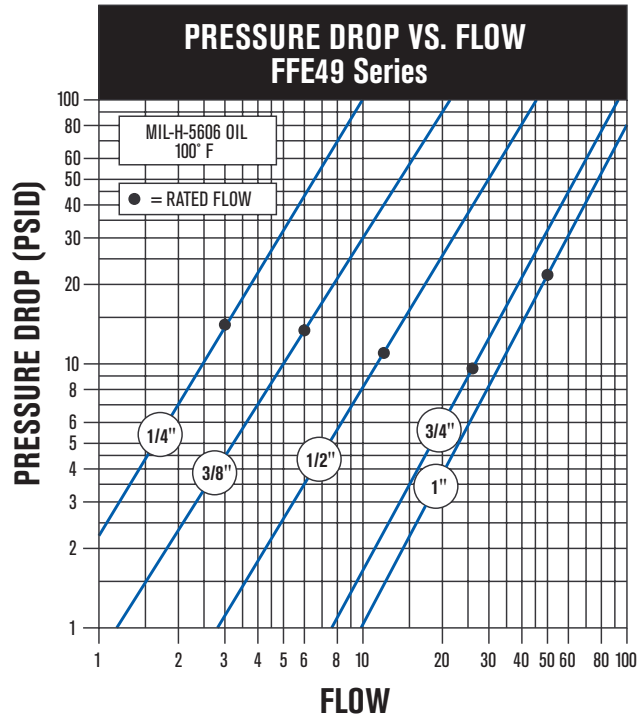
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option -15° to +450° F Other Seals Available.
 Vacuum Data: 27.4 inches Hg. both connected and disconnected – all sizes.

Viton® is a registered trademark of DuPont Dow Elastomers.

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.

NO SPILLAGE, HIGH FLOW RELIABLE QUICK COUPLING

FFE49 SERIES



DIMENSIONS (inches)									
Complete Coupler Number	Overall Length A	Body Length B	Diameter C	Wrench Flat D	Diameter E	Tip Length F	Diameter G	Hex H	Tip Diameter I
FFE49-2	3.60	2.21	1.06	.88	.95	1.82	.95	.88	.64
FFE49-4	5.18	3.06	1.50	1.38	1.57	2.77	1.42	1.25	.96
FFE49-4-3/4	5.20	3.06	1.50	1.38	1.57	2.81	1.55	1.38	.96
FFE49-4-12	5.60	3.29	1.50	1.38	1.57	2.98	1.55	1.38	.96
FFE49-6	6.07	3.77	1.82	1.62	1.82	3.17	1.82	1.62	1.18
FFE49-6-1	6.29	3.88	1.82	1.62	1.82	3.28	1.82	1.62	1.18
FFE49-6-16	6.49	3.98	1.82	1.62	1.82	3.38	1.82	1.62	1.18
FFE49-8	6.76	4.25	2.25	2.00	2.24	3.44	2.24	2.00	1.42
FFE49-8-114	6.76	4.25	2.25	2.00	2.24	3.44	2.24	2.00	1.42
FFE49-8-20	6.76	4.25	2.25	2.00	2.24	3.44	2.24	2.00	1.42

See pages 27 and 28 for accessories to the FFE49 Series.

S20 Series



RELIABLE, ECONOMICAL, GENERAL PURPOSE COUPLINGS

SafeWay's S20 Series is a general purpose, double shut-off, fluid transfer quick coupling available with either a rugged ball valve or leak-free, high flow poppet valve. The S20 Series is used primarily on agricultural equipment and is recognized as an economical and reliable quick coupling. This series is original equipment on snow plows, garden tractors, full size tractors, front-end loaders, skid-steer loaders, earth moving, and mining equipment.



- 1/2" body size meets dimensional requirements of International Standard 5675.
- Available in body sizes from 1/4" through 1", in a variety of thread sizes and styles.
- Double shut-off design available with either a rugged ball valve or leak-free, high flow poppet valve.
- All poppet valve models are 100% leak tested before leaving the factory.
- Reliable and durable ball locking mechanism provides smooth operation time after time.
- Critical parts are hardened for long service life.
- SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.
- One-way sleeve design allows implement break-away when the coupling is clamp mounted.
- Interchangeable half-for-half with the Parker/Pioneer 4000 Series.
- Referred to as "old reliable" by hands-on users.
- Heavy-duty dust plugs and dust caps available.
- Heavy-duty double break-away clamp available.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods.*

PERFORMANCE DATA

PART NUMBERS			DESCRIPTION		OPERATING PRESSURE		RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Thread Size and Description	Maximum		GPM	(LPM)
					PSI	(BAR)		
S20A-2	S25A-2	S41-2	1/4"	1/4" Female Pipe	3,000	(207)	3	(12)
S20A-2P	S25A-2P	S41-2P	1/4"	1/4" Female Pipe	3,000	(207)	3	(12)
S20-3	S25-3	S41-3	3/8"	3/8" Female Pipe	3,000	(207)	6	(23)
S20-3P	S25-3P	S41-3P	3/8"	3/8" Female Pipe	3,000	(207)	6	(23)
S20-4	S25-4	S71-4	1/2"	1/2" Female Pipe	3,000	(207)	12	(45)
S20-4P	S25-4P	S71-4P	1/2"	1/2" Female Pipe	3,000	(207)	12	(45)
S20-4P-BSP	S25-4P-BSP	S561-4-BSP	1/2"	G 1/2" BSPP Female	4,000	(276)	12	(45)
S20-15	S25-15	S71-15	1/2"	3/4"-16 Female ORB	3,000	(207)	12	(45)
S20-15P	S25-15P	S71-15P	1/2"	3/4"-16 Female ORB	3,000	(207)	12	(45)
S20-16	S25-16	S71-16	1/2"	7/8"-14 Female ORB	3,000	(207)	12	(45)
S20-16P	S25-16P	S71-16P	1/2"	7/8"-14 Female ORB	3,000	(207)	12	(45)
S20F-6	S25F-6	S21F-6	3/4"	3/4" Female Pipe	3,000	(207)	28	(106)
S20-8P	S25-8P	S21-8P	1"	1" Female Pipe	3,000	(207)	50	(189)

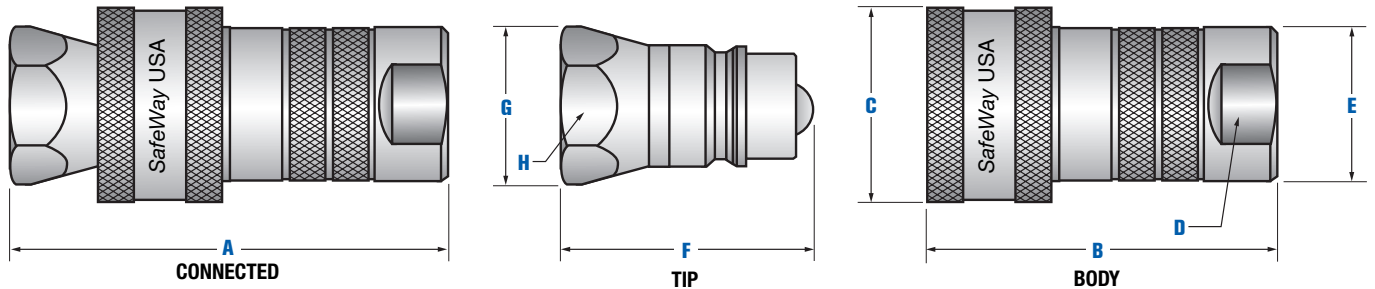
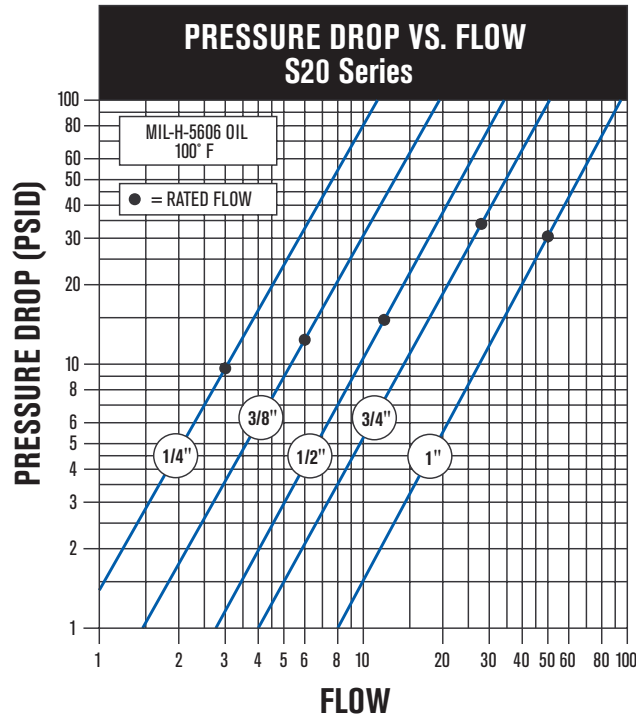
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option -15° to +450° F Other Seals Available.
 Vacuum Data: 27.4 inches Hg, both connected and disconnected – Poppet valved models in all sizes (P suffix).

Viton® is a registered trademark of DuPont Dow Elastomers.

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.

GENERAL PURPOSE AGRICULTURAL O.E.M. COUPLINGS

S20 SERIES



DIMENSIONS (inches)

Complete Coupler Number	Overall Length	Body Length	Diameter	Wrench Flat	Diameter	Tip Length	Diameter	Hex
	A	B	C	D	E	F	G	H
S20A-2	2.52	1.94	1.06	.87	.88	1.32	.86	.75
S20A-2P	2.52	1.94	1.06	.87	.88	1.37	.86	.75
S20-3	3.03	2.31	1.32	.87	1.00	1.58	1.08	.94
S20-3P	3.03	2.31	1.32	.87	1.00	1.67	1.08	.94
S20-4	3.66	2.68	1.50	1.00	1.17	1.94	1.22	1.06
S20-4P	3.66	2.68	1.50	1.00	1.17	1.96	1.22	1.06
S20-4P-BSP	3.66	2.68	1.50	1.00	1.17	1.88	1.23	1.06
S20-15	3.66	2.68	1.50	1.00	1.17	1.94	1.22	1.06
S20-15P	3.66	2.68	1.50	1.00	1.17	1.96	1.22	1.06
S20-16	3.66	2.68	1.50	1.00	1.17	1.94	1.22	1.06
S20-16P	3.66	2.68	1.50	1.00	1.17	1.96	1.22	1.06
S20F-6	4.02	3.02	1.88	1.31	1.49	2.15	1.52	1.38
S20-8P	4.52	3.43	2.07	1.62	1.86	2.49	1.88	1.62

See pages 27 and 28 for accessories to the S20 Series.

S40 Series



ONE-HAND OPERATION, GENERAL PURPOSE COUPLINGS

SafeWay's S40 Series is a general purpose, double shut-off fluid transfer quick coupling available with either a rugged ball valve or leak-free, high flow poppet valve. The S40 was the first two-way (double acting) sleeve quick coupling, introduced by SafeWay in 1969 as our first product. The S40 Series is widely used wherever the ease and convenience of one-hand connection or disconnection is desired. It is original equipment on a wide variety of agricultural and mobile equipment.



- 1/2" body size meets dimensional requirements of International Standard 5675.
- Two-way, double acting sleeve of the S40 Series allows one-hand connect or disconnect when the coupling is clamp or bulkhead mounted.
- Available in body sizes from 1/4" to 1/2", in a variety of thread sizes and styles.
- Double shut-off design available with either a rugged ball valve or leak-free, high flow poppet valve.
- Reliable and durable ball locking mechanism provides smooth operation time after time.
- Critical parts are hardened for long service life.
- Two-way sleeve design allows implement break-away when the coupling is clamp or bulkhead mounted.
- Interchangeable half-for-half with the Parker/Pioneer 4200 Series.
- All poppet valve models are 100% leak tested before leaving the factory.
- Heavy-duty dust plugs and dust caps available.
- Heavy-duty double break-away clamp available.
- Heavy-duty snap-rings for bulkhead mounting available.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods.*

PERFORMANCE DATA

PART NUMBERS			DESCRIPTION		OPERATING PRESSURE		RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Thread Size and Description	Maximum		GPM	(LPM)
					PSI	(BAR)		
S40-2	S45-2	S41-2	1/4"	1/4" Female Pipe	3,000	(207)	3	(12)
S40-2P	S45-2P	S41-2P	1/4"	1/4" Female Pipe	3,000	(207)	3	(12)
S40-3	S45-3	S41-3	3/8"	3/8" Female Pipe	3,000	(207)	6	(23)
S40-3P	S45-3P	S41-3P	3/8"	3/8" Female Pipe	3,000	(276)	6	(23)
S40-3P-BSP	S45-3P-BSP	S41-3P-BSP	3/8"	G 3/8" BSPP Female	3,000	(207)	6	(23)
S40-36	S45-36	S41-36	3/8"	M16-1.5 Female Metric	3,000	(207)	6	(23)
S40-4	S45-4	S71-4	1/2"	1/2" Female Pipe	3,000	(207)	12	(45)
S40-4P	S45-4P	S71-4P	1/2"	1/2" Female Pipe	3,000	(207)	12	(45)
S40-4P-BSP	S45-4P-BSP	S561-4-BSP	1/2"	G 1/2" BSPP Female	4,000	(276)	12	(45)
S40-15	S45-15	S71-15	1/2"	3/4"-16 Female ORB	3,000	(207)	12	(45)
S40-15P	S45-15P	S71-15P	1/2"	3/4"-16 Female ORB	3,000	(207)	12	(45)
S40-6	S45-6	S71-6	1/2"	3/4" Female Pipe	3,000	(207)	12	(45)
S40-6P	S45-6P	S71-6P	1/2"	3/4" Female Pipe	3,000	(207)	12	(45)

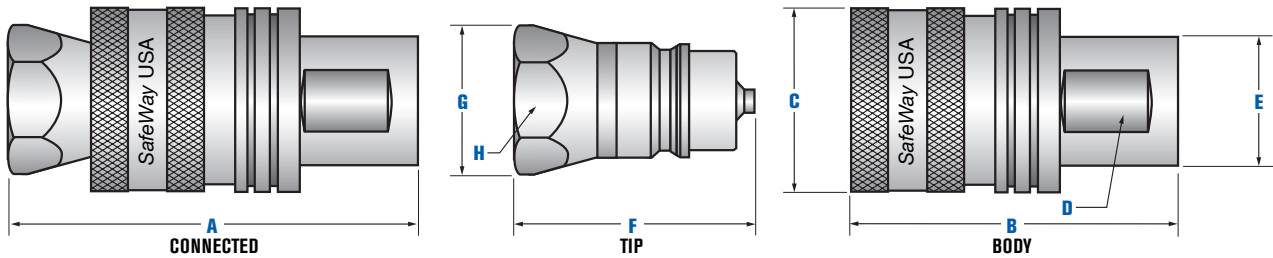
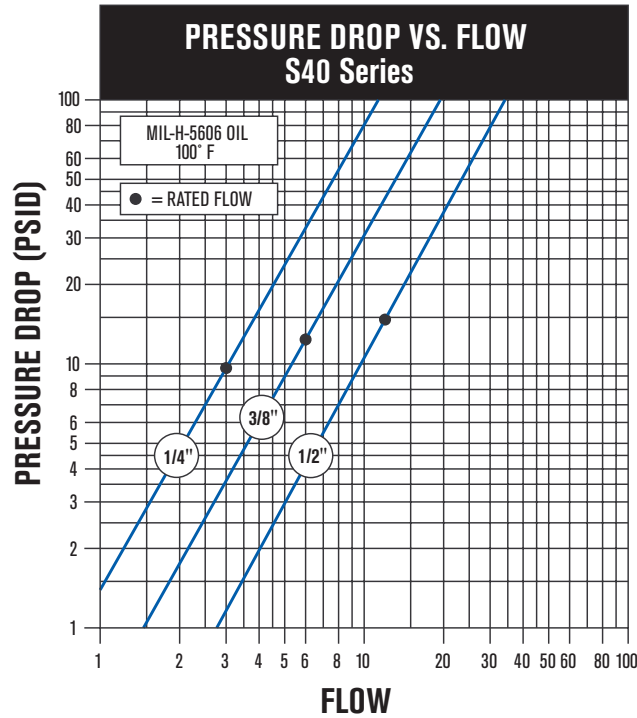
Temperature Range: Standard Seals (Buna-N) -40° to +250° F Viton® Option -15° to +450° F Other Seals Available.
 Vacuum Data: 27.4 inches Hg, both connected and disconnected – Poppet valved models in all sizes (P suffix).

Viton® is a registered trademark of DuPont Dow Elastomers.

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.

ONE-HAND OPERATION AGRICULTURAL O.E.M. COUPLINGS

S40 SERIES



DIMENSIONS (inches)								
Complete Coupler Number	Overall Length	Body Length	Diameter	Wrench Flat	Diameter	Tip Length	Diameter	Hex
	A	B	C	D	E	F	G	H
S40-2	2.52	1.94	1.07	.75	.84	1.32	.86	.75
S40-2P	2.52	1.94	1.07	.75	.84	1.37	.86	.75
S40-3	3.03	2.31	1.32	.87	1.06	1.58	1.08	.94
S40-3P	3.03	2.31	1.32	.87	1.06	1.67	1.08	.94
S40-3P-BSP	3.03	2.31	1.32	.87	1.06	1.67	1.08	.94
S40-36	3.03	2.31	1.32	.87	1.06	1.58	1.08	.94
S40-4	3.66	2.68	1.50	.93	1.06	1.94	1.22	1.06
S40-4P	3.66	2.68	1.50	.93	1.06	1.96	1.22	1.06
S40-4P-BSP	3.66	2.68	1.50	.93	1.06	1.88	1.23	1.06
S40-15	3.66	2.68	1.50	.93	1.06	1.94	1.22	1.06
S40-15P	3.66	2.68	1.50	.93	1.06	1.96	1.22	1.06
S40-6	4.07	2.90	1.50	1.25	1.43	2.16	1.43	1.25
S40-6P	4.07	2.90	1.50	1.25	1.43	2.18	1.43	1.25

See pages 27 and 28 for accessories to the S40 Series.

S70 Series



ONE-HAND HOOK-UP UNDER FULL SYSTEM PRESSURE

SafeWay's S70 Series offers unique internal valving, combined with SafeWay's two-way sleeve feature, allowing one-hand connection under full system pressure. The body (coupling) half can be mated to either a ball valve or poppet valve ISO male tip (nipple). The S70 Series is used primarily with agricultural equipment. It is original equipment on full size tractors and front-end loaders. Use when connection and disconnection under pressure, without the use of tools, is desirable.



- 1/2" body size couplers and male tips meet ISO 5675, S.A.E. and ASAE interchangeability and performance requirements.
- Available in 1/2" body size, in a variety of thread sizes and styles.
- After hook-up, the hydraulic circuit automatically opens when the hydraulic system is operated.
- Two-way sleeve design allows one-hand hook-up and break-away when clamp or bulkhead mounted. Clamp and snap-rings available.
- Easy one-hand connection to a clamp or bulkhead mounted coupler while male tip and female body half are both — or either — under pressure.
- All poppet versions are 100% leak tested.
- Critical parts are hardened for long service life.
- SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.
- May be used with either an open center or closed center hydraulic system that has a control valve.
- Interchangeable half-for-half with the Parker/Pioneer 8200 Series.
- Method of obtaining and presenting performance data conforms to ANSI/(NFPA)T3.20.2.R2, *Hydraulic fluid power - Quick-action couplings - Test methods*.

PERFORMANCE DATA

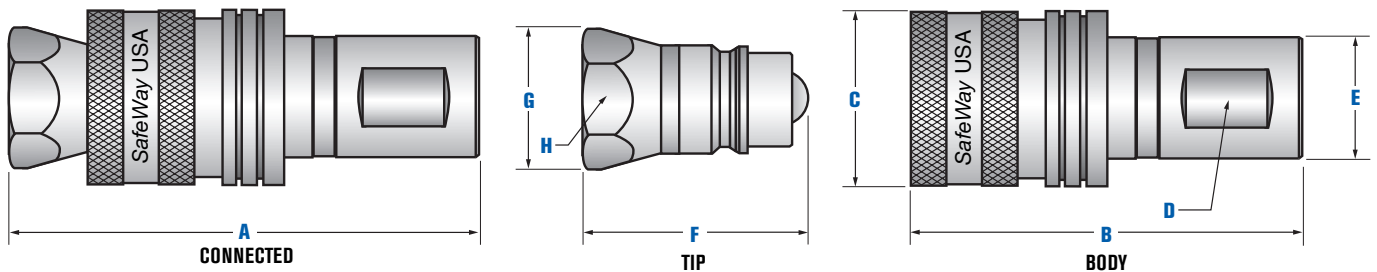
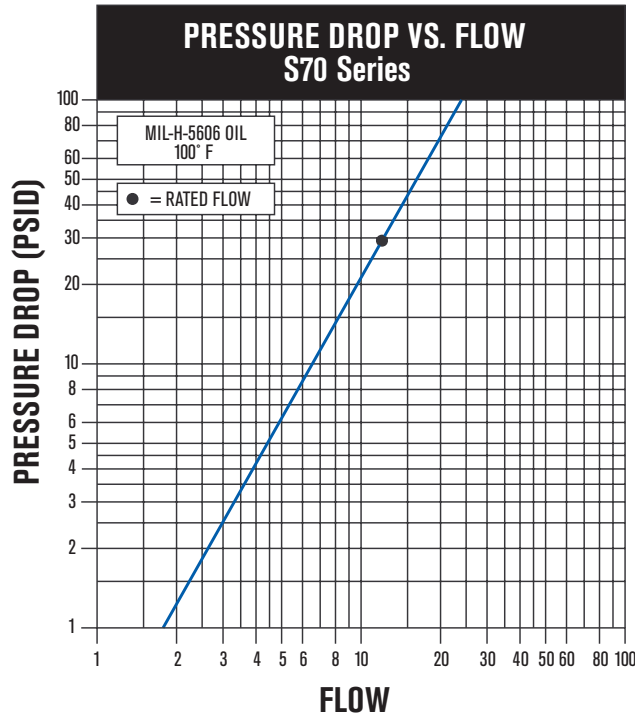
PART NUMBERS			DESCRIPTION		OPERATING PRESSURE		RATED FLOW	
Complete Coupler	Female Body Half	Male Tip Half	Body Size	Thread Size and Description	Maximum		GPM	(LPM)
					PSI	(BAR)		
S70-4	S75-4	S71-4	1/2"	1/2" Female Pipe	3,000	(207)	12	(45)
S70-4P	S75-4	S71-4P	1/2"	1/2" Female Pipe	3,000	(207)	12	(45)
S70-4P-BSP	S75-4-BSP	S71-4P-BSP	1/2"	G 1/2" BSPP Female	3,000	(207)	12	(45)
S70-15	S75-15	S71-15	1/2"	3/4"-16 Female ORB	3,000	(207)	12	(45)
S70-15P	S75-15	S71-15P	1/2"	3/4"-16 Female ORB	3,000	(207)	12	(45)
S70-16	S75-16	S71-16	1/2"	7/8"-14 Female ORB	3,000	(207)	12	(45)
S70-16P	S75-16	S71-16P	1/2"	7/8"-14 Female ORB	3,000	(207)	12	(45)

Temperature Range: Standard Seals (Buna-N) -40° to +250° F Standard Body Poppet Seal (Polyurethane) -30° to +230° F
 Vacuum Data: 27.4 inches Hg, both connected and disconnected – Poppet valved models in all sizes (P suffix).

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.

CONNECT-UNDER-PRESSURE AGRICULTURAL O.E.M. COUPLINGS

S70 SERIES



DIMENSIONS (inches)								
Complete Coupler Number	Overall Length	Body Length	Diameter	Wrench Flat	Diameter	Tip Length	Diameter	Hex
	A	B	C	D	E	F	G	H
S70-4	4.34	3.39	1.50	.93	1.06	1.94	1.22	1.06
S70-4P	4.34	3.39	1.50	.93	1.06	1.96	1.22	1.06
S70-4P-BSP	4.34	3.39	1.50	.93	1.06	1.96	1.22	1.06
S70-15	4.34	3.39	1.50	.93	1.06	1.94	1.22	1.06
S70-15P	4.34	3.39	1.50	.93	1.06	1.96	1.22	1.06
S70-16	4.34	3.39	1.50	1.00	1.06	1.94	1.22	1.06
S70-16P	4.34	3.39	1.50	1.00	1.06	1.96	1.22	1.06

See pages 27 and 28 for accessories to the S70 Series.



BALL VALVE AND POPPET VALVE MODELS

The International Standards Organization has adopted standardization requirements for interchangeability and performance of 1/2" agricultural male tips. SafeWay's S71 Series male tips, with either ball check or poppet check, meet or exceed these requirements. To date, all tractor manufacturers have accepted ISO 5675 as the "standard" for their equipment. SafeWay's 1/2" S20 Series, S40 Series and S70 Series female couplers accept all ISO male tips.



S71-4 ISO male tip with 1/2" female pipe thread. A ball type check that incorporates a shielded retainer to eliminate flow-checking when used with connect-under-pressure type couplers.

S71-15 ISO male tip with 3/4"-16 O-ring Boss thread. A ball type check that incorporates a shielded retainer to eliminate flow-checking when used with connect-under-pressure type couplers.

S71-16 ISO male tip with 7/8"-14 O-ring Boss thread. A ball type check that incorporates a shielded retainer to eliminate flow-checking when used with connect-under-pressure type couplers.



S71-4P ISO male tip with 1/2" female pipe thread. A poppet type check that incorporates a shielded retainer to eliminate flow-checking when used with connect-under-pressure type couplers.

S71-15P ISO male tip with 3/4"-16 O-ring Boss thread. A poppet type check that incorporates a shielded retainer to eliminate flow-checking when used with connect-under-pressure type couplers.

S71-16P ISO male tip with 7/8"-14 O-ring Boss thread. A poppet type check that incorporates a shielded retainer to eliminate flow-checking when used with connect-under-pressure type couplers.

AGRICULTURAL O.E.M.

INTERCHANGE COUPLERS AND TIPS—PREVIOUS DESIGNS



JOHN DEERE

S25-4-20 female body interchanges with the John Deere AR47331 female body and connects with the SafeWay S11-4 and John Deere AR30210 male tips. Rugged ball style valving. The one-way sleeve allows implement break-away when mounted in a S42-4-20 clamp. Provided with a female 1/2" pipe thread.

S25-15-20 female body also interchanges with the John Deere AR47331, but has female 3/4"-16 ORB thread. Connects with the SafeWay S11-15 and John Deere AR3010 male tips. Also uses the S42-4-20 double break-away clamp.

S11-4 and S11-15 male tips connect with the old style John Deere casting as well as the female bodies listed above. Rugged ball style valving. The S11-4 has 1/2" pipe thread and the S11-15 has 3/4"-16 ORB thread. Plated and hardened for durability.



INTERNATIONAL HARVESTER

S25-4-21P female body is an interchange for the I-H 544788R1 female body and connects with the SafeWay S12-4 and I-H 544788R1 male tips. Drip free, high flow poppet style valving. The one-way sleeve allows implement break-away when mounted in a S42-4-21 clamp. Provided with a female 1/2" pipe thread.

S25-16-21P female body also interchanges with the I-H 544788R1, but has female 7/8"-14 ORB thread. Connects with the SafeWay S12-16 and I-H 544787R91 male tips. Also uses the S42-4-21 double break-away clamp.

S12-4 and S12-16 male tips connect with the old style I-H casting as well as the female bodies listed above. Rugged ball style valving. The S12-4 has 1/2" pipe thread and the S12-16 has 7/8"-14 ORB thread. Plated and hardened for durability.



J.I. CASE














S13-4 male tip is a direct interchange for the J.I. Case old style male tip A160884. It connects with the old style J.I. Case female body 28542. Rugged ball style valving, 1/2" pipe thread. Plated and hardened for durability.

Note: SafeWay began a running change from zinc and yellow chromate plating (gold appearance) to ROHS compliant plating (silver appearance) in 2007.

COUPLER ADAPTERS



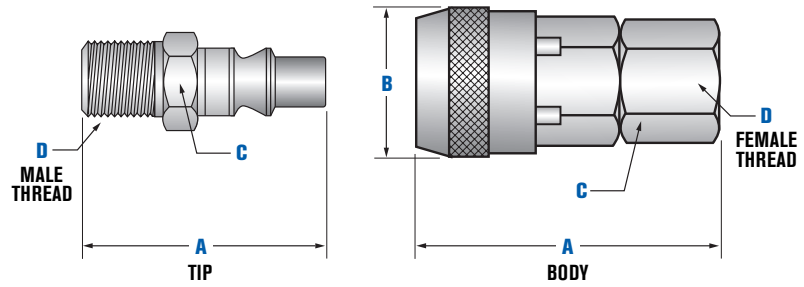
INTERCONNECT NON-COMPATIBLE TIPS & BODIES

	PART NUMBER	ADAPTS THIS STYLE MALE TIP	TO THIS STYLE FEMALE BODY
	FAE49-56-4	SafeWay's FFE491-4 or other 1/2" ISO 16028	SafeWay's S20, S40, S56, S70 Series or other 1/2" ISO 5675
	FAE56-49-4	SafeWay's S71 and S561 Series or other 1/2" ISO 5675	SafeWay's FFE495-4 or other 1/2" ISO 16028
	S25-4-1	SafeWay's S71 Series or other ISO 5675	John Deere (old style)
	S25-4-2	SafeWay's S71 Series or other ISO 5675	International Harvester (old style)
	S25-4-3	John Deere Cone (old style)	SafeWay's S20, S40 or S70 Series or other ISO 5675
	S25-4-3D	John Deere Cone (old style)	New Style John Deere ISO Casting or other ISO 5675
	S25-4-4	John Deere Cone (old style)	International Harvester (old style)
	S25-4-5	International Harvester (old style)	John Deere Cone (old style)
	S25-4-6	SafeWay's S71 Series or other ISO 5675	J.I. Case (old style)
	S25-4-7	International Harvester (old style)	SafeWay's S20, S40 or S70 Series or other ISO 5675
	S25-4-7D	International Harvester (old style)	New Style John Deere ISO Casting or other ISO 5675
	S25-4-8	J.I. Case (old style)	SafeWay's S20, S40 or S70 Series or other ISO 5675
	S25-4-9	John Deere Cone (old style)	J.I. Case (old style)

S80 Series



PNEUMATIC ARO-210 INTERCHANGE



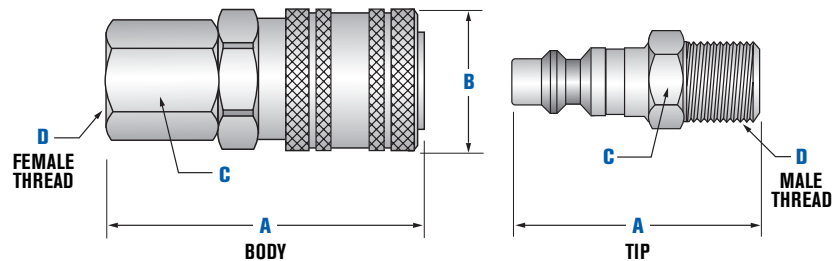
S80 Series–ARO 210 Series Pneumatic Interchange (Push to Connect)

Part Number	Part Name	Body Size	OPERATING PRESSURE		DIMENSIONS (inches)			THREAD SIZE NPT
			Maximum		Length	Diameter	Wrench Hex	D
			PSI	(BAR)	A	B	C	D
S801-2M	Tip	1/4"	300	(20)	1.62	–	.56	1/4" Male
S801-2F	Tip	1/4"	300	(20)	1.50	–	.62	1/4" Female
S805-2	Body	1/4"	300	(20)	2.00	1.02	.75	1/4" Female

S82 Series



PNEUMATIC INDUSTRIAL INTERCHANGE



S82 Series–Pneumatic Industrial Interchange (Manual Connect)

Part Number	Part Name	Body Size	OPERATING PRESSURE		DIMENSIONS (inches)			THREAD SIZE NPT
			Maximum		Length	Diameter	Wrench Hex	D
			PSI	(BAR)	A	B	C	D
S821-2M	Tip	1/4"	300	(20)	1.70	–	.56	1/4" Male
S821-2F	Tip	1/4"	300	(20)	1.49	–	.62	1/4" Female
S821-3M	Tip	3/8"	300	(20)	1.91	–	.69	3/8" Male
S821-3F	Tip	3/8"	300	(20)	1.68	–	.81	3/8" Female
S821-3-2M	Tip	3/8"	300	(20)	1.88	–	.68	1/4" Male
S821-3-2F	Tip	3/8"	300	(20)	1.62	–	.62	1/4" Female
S825-2M	Body	1/4"	300	(20)	2.17	.95	.69	1/4" Male
S825-2	Body	1/4"	300	(20)	2.14	.95	.69	1/4" Female
S825-3M	Body	3/8"	300	(20)	2.41	1.19	.94	3/8" Male
S825-3	Body	3/8"	300	(20)	2.43	1.19	.94	3/8" Female

ACCESSORIES

PROVIDING YOU WITH ALL YOUR HYDRAULIC COUPLING NEEDS



BREAK-AWAY CLAMPS

SafeWay's heavy-duty double break-away clamps allow one-hand hook-up when used with two-way sleeve style agricultural quick couplings. They also allow implement break-away when used with either one-way or two-way sleeve agricultural designs. Double break-away clamps are available for 3/8" and 1/2" body size agricultural quick couplings.

Bulkhead mounting rings provide for bulkhead mounting (up to 1/8" thick) of our S40 Series and S70 Series female couplers. Please refer to the accessories chart on page 28 with your specific requirement.



REPLACEMENT SEAL KITS

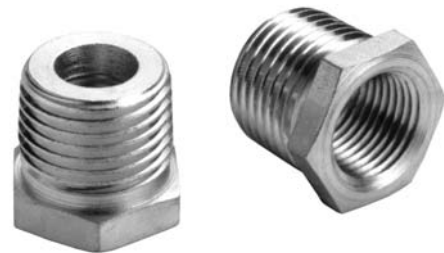
Both replacement seal kits and individual O-rings and back-up rings are available. Leakage between the female body half (coupling) and the male tip half (nipple) is an indication that the body O-ring needs replacement.

Field repair kits that include the body seal, a new poppet assembly and installation instructions are available for large sized S10 Series and S56 Series couplings. Please refer to the accessories chart on page 28 with your specific requirement.



DUST CAPS & DUST PLUGS

Protective dust caps and dust plugs are available in rubber or metal in a variety of sizes. They should be used whenever possible to help reduce contamination of the hydraulic system and improve service life of the body half (coupling) and the mating tip half (nipple). Please refer to the accessories chart on page 28 with your specific requirement.



REDUCER BUSHINGS

Reducer Bushings downsize the 1/2" female pipe thread standard on quick couplings to either a 3/8" or 1/4" female pipe thread. The S4-2 reduces a 1/2" pipe thread to 1/4" NPT. The S4-3 reduces a 1/2" pipe thread to a 3/8" NPT.

COMPLETE LINE OF ACCESSORIES FOR SAFEWAY'S COUPLINGS

PRODUCT NUMBERS							
Part Number	Body O-Ring	Body Back-Up	Repair Kit	Dust Cap (Protects Tip)	Dust Plug (Protects Body)	Clamp	Bulkhead Ring
S10-1	S1060B-1	S1061T-1		S19-1	S14-1		
S10-2	S1060B-2	S1061T-2		S19-2	S14-2		
S10-3	S1060B-3	S1061T-3		S19-3	S14-3		
S10-4	S1060B-4	S1061T-4		S19-4	S14-4		
S10-6	S1060B-6	S1061T-6	S106-6RK*	S19-6	S14-6		
S10-8	S1060B-8	S1061T-8	S106-8RK*	S19-8	S14-8		
SH20-2(P)	S460-2			S49-2	S44-2		
SH20-14(P)	S460-2			S49-2	S44-2		
SH20-2-3P	S460-2			S49-2	S44-2		
S30-2P	S360-2	S361-2		S39-2	S34-2		
S30-3P	S360-3	S361-3		S39-3	S34-3		
S511-6 & (-STL)			S511-6RK			S512-6	
S515W-6(H) & (-STL)			S515-6RK				
S511-8 & (-STL)			S511-8RK			S512-8	
S515W-8(H) & (-STL)			S515-8RK				
S511-10 & (-STL)			S511-10RK			S512-10	
S515W-10(H) & (-STL)			S515-10RK				
S56-2	S5660B-2	S5661T-2		S59-2	S54-2		
S56-3	S5660B-3	S5661T-3		S59-3	S54-3		
S56-4	S5660B-4	S5661T-4		S59-4	S54-4		
S56-6	S5660B-6	S5661T-6	S566-6RK	S59-6	S54-6		
S56-8	S5660B-8	S5661T-8	S566-8RK	S59-8	S54-8		
SF49-3			SF491-3RK	FF499-3	FF494-3		
FF49-3			FF491-3RK	FF499-3	FF494-3		
FF49-3M			FF491-3RK	FF499-3	FF494-3		
FF49-3-8			FF491-3RK	FF499-3	FF494-3		
FF49-4			FF491-3RK	FF499-3	FF494-3		
FF49-6			FF491-6RK				
FF49-6-12			FF491-6RK				
FFE49-4			FF491-6RK				
FFE49-4-3/4			FF491-6RK				
FFE49-4-12			FF491-6RK				
FFE49-6			FF491-8RK				
FFE49-6-1			FF491-8RK				
FFE49-6-16			FF491-8RK				
FFE49-8			FF491-10RK				
FFE49-8-20			FF491-10RK				
FFE49-8-114			FF491-10RK				
S20A-2(P)	S460-2			S49-2	S44-2		
S20-3(P)	S460-3			S49-3	S44-3		
S20-4(P)	S460-4			S49-4	S44-4	S42-4 & S42-4-4	
S20-15(P)	S460-4			S49-4	S44-4	S42-4 & S42-4-4	
S20-16(P)	S460-4			S49-4	S44-4	S42-4 & S42-4-4	
S20F-6	S260-6						
S20-8P	S260-8						
S40-2(P)	S460-2			S49-2	S44-2		
S40-3(P)	S460-3			S49-3	S44-3	S42-3	S43-3
S40-36	S460-3			S49-3	S44-3	S42-3	S43-3
S40-4(P)	S460-4			S49-4	S44-4	S42-4 & S42-4-4	S43-4
S40-15(P)	S460-4			S49-4	S44-4	S42-4 & S42-4-4	S43-4
S40-6(P)	S460-4			S49-4	S44-4	S42-4 & S42-4-4	S43-4
S70-4(P)	S760-4			S49-4	S44-4	S42-4 & S42-4-4	S43-4
S70-15(P)	S760-4			S49-4	S44-4	S42-4 & S42-4-4	S43-4
S70-16(P)	S760-4			S49-4	S44-4	S42-4 & S42-4-4	S43-4
S25-4-20	S170-4					S42-4-20	
S25-4-21P	S160-4					S42-4-21	

*Please consult the factory for repair kits in stainless steel and brass.

SALES AIDS

PROVIDING YOU WITH ALL YOUR PROMOTIONAL NEEDS

LITERATURE & ADVERTISING

SafeWay Hydraulics provides support literature, interchange data, technical data sheets, and up-to-date pricing for all of its product lines. National and international magazine and directory advertising improves product recognition. For the most up-to-date information please visit our website at www.safewayhyd.com.



PACKAGING OPTIONS

Standard packaging for our agricultural products is in individual plastic bags, clearly identified with part number and description. Clear-Pak® packaging is available at a modest extra cost and includes interchange information and bar code. Please see our current price list catalog for the items available in the Clear-Pak® packaging option.



DISPLAY CARTONS

Display cartons are available at no additional cost for many of our fast moving agricultural interchange products. Please see our current price list catalog for details regarding ordering of this popular packaging option.





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