Low Pressure "Speedbite", Single Ferrule to 15,000 psi (1034 bar)

Includes Check Valves, Filters & Couplings



Principle of Operation:

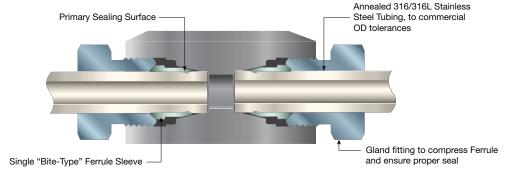
Parker Autoclave Engineers Low Pressure "Speedbite" and "Mini" Series fittings are designed to work with 10V/SW Series and Mini Series Low Pressure Valves as well as Low Pressure Tubing made of commercially sized 316/316L SS in the "Annealed" condition. Pressures to 15,000 psi and sizes from 1/16" to 1/2" are readily available.

The Speedbite connection is a single-ferrule bite-type compression fitting engineered for use with tubing designed by Parker Autoclave Engineers to a controlled hardness. Speedbite fittings employ a bite-type compression style single ferrule that is manually tightened.

Low Pressure Fittings and Tubing Features:

- Single-ferrule compression sleeve connections for up to 15,000 psi MAWP
- Operating temperatures from -100°F (-73°C) to 650°F (343°C)
- Fast easy 1-1/4 turn make-up of connection
- Available sizes are 1/16", 1/8", 1/4", 3/8", and 1/2"
- Fittings manufactured in accordance with ASME B31.3 Chapter IX standards with UNS S31600 316 SS material cold worked to Parker Autoclave proprietary standards (optional material available).
- Tubing manufactured to commercial OD tolerances ASTM A269 dual rated 316/316L material to a controlled hardness to facilitate proper ferrule bite.
- Molybdenum disulfide-coated gland nuts to prevent galling

All Parker Autoclave Engineers fittings are marked with manufacturers name, part number, material, heat code and maximum pressure for complete traceability.



Low Pressure "Speedbite" design "bites" the tubing with little or no tube distortion





Low Pressure Fittings - Pressures to 15,000 psi (1034 bar)

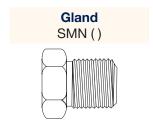


Each fitting or adapter uses UNS S31600 cold worked 316 Stainless Steel and are manufactured in accordance with ASME B31.3 Chapter IX standards. (Optional Materials available, contact factory for selection).

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

Connection Components:

All valves and fittings are supplied complete with appropriate glands and compression sleeves. To order these components separately, use order numbers listed. When using plug, ferrule sleeve is not required. Tubing pressure caps can be found in Adapter Brochure.



() - Add Tube Size Code

1/8" - 20

1/4" - 40

3/8" - 60

1/2" - 80

Example: 1/4" SW Series Gland - SMN40 Note: Special material glands are normally supplied with four flats in place of standard hex.



1/16" tubing system components are available in the mini-fitting series starting on page 6. 1/16" tubing components can be used in 10V Series valves and fittings if required.

To ensure proper fit use Parker Autoclave Engineers tubing.

NACE/ISO 15156 Compatibility

All PAE Low Pressure "Speedbite" Fittings and Tubing can be made with materials suitable for NACE/ISO 15156 requirements. As per NACE and ISO-15156, it is contingent on the end user to select this material. As this compatibility limits the use of "cold worked" materials, pressure reduction in MAWP can be expected. Please consult our Technical Brochure where we identify the more popular annealed materials along with the pressure reduction. Our Sour Oil and Gas brochure has a more complete description of the available options for pressures up to 30,000 psi.

NACE Suffix adder options:

"-SOG" suffix is used along with optional material to generate a hardness verification of pressure containing parts to generate a NACE certificate of compliance.

Elbow

Catalog	Connection	Outside	Pressure	Orifice			Dimens	ions - inch	es (mm)			Block
Catalog Number	Connection Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	Е	F	G Thickness	Thickness
	1											
SL2200	W125	1/8 (3.18)	15,000 (1034)	.094 (2.39)	1.00 (24.40)	1.50 (38.10)	0.31 (7.87)	0.38 (9.53)	0.75 (19.05)	0.75 (19.05)	-	0.62 (15.75)
SL4400	SW250	1/4 (6.35)	15,000 (1034)	.188 (4.78)	1.38 (35.05)	2.00 (50.80)	0.44 (11.18)	0.63 (15.88)	1.00 (25.40)	1.00 (25.40)	-	0.75 (19.05)
SL6600	SW375	3/8 (9.53)	15,000 (1034)	.312 (7.92)	1.38 (35.05)	2.00 (50.80)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	1.00 (25.40)	-	0.75 (19.05)
SL8800	SW500	1/2 (12.70	10,000 (689)	.438 (11.13)	1.75 (44.45)	2.50 (63.50)	0.53 (13.46)	0.93 (23.62)	1.25 (31.75)	1.25 (31.75)	-	1.00 (25.40)
	(12.70 (689) (11.13) (44.45)						rking pressuions for refe ot service, Pour local rep	ating is base ure may be or erence only arker Autocoresentative tion add suf- sions.	determined and subject lave Engine	by tubing p to change.	ressure ratir	ng, if lower.
	Elbow											

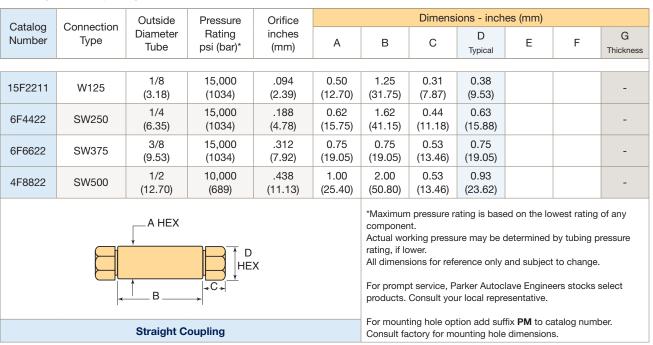
Tee

Catalag	Connection	Outside	Pressure	Orifice			Dimens	ions - inch	es (mm)			Dlask
Catalog Number	Connection Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	Е	F	G Thickness	Block Thickness
ST2220	W125	1/8 (3.18)	15,000 (1034)	.094 (2.39)	1.00 (24.40)	1.50 (38.10)	0.31 (7.87)	0.38 (9.53)	0.75 (19.05)	0.75 (19.05)	-	0.62 (15.75)
ST4440	SW250	1/4 (6.35)	15,000 (1034)	.188 (4.78)	1.38 (35.05)	2.00 (50.80)	0.44 (11.18)	0.63 (15.88)	1.00 (25.40)	1.00 (25.40)	-	0.75 (19.05)
ST6660	SW375	3/8 (9.53)	15,000 (1034)	.312 (7.92)	1.38 (35.05)	2.00 (50.80)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	1.00 (25.40)	-	0.75 (19.05)
ST8880	SW500	1/2 (12.70)	10,000 (689)	.438 (11.13)	1.75 (44.45)	2.50 (63.50)	0.53 (13.46)	0.93 (23.62)	1.25 (31.75)	1.25 (31.75)	-	1.00 (25.40)
\$18880 \$W500							rking pressusions for refe ot service, Pour local rep	ure may be orerence only arker Autocoresentative	determined and subject lave Engine	by tubing p t to change. ers stocks	of any compressure rating select producer. Consult	ng, if lower.

Cross

0-4-1	0	Outside	Pressure	Orifice			Dimensi	ions - inch	es (mm)	-		Disale
Catalog Number	Connection Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	Е	F	G Thickness	Block Thickness
SX2222	W125	1/8 (3.18)	15,000 (1034)	.094 (2.39)	1.50 (38.10)	1.50 (38.10)	0.31 (7.87)	0.38 (9.53)	0.75 (19.05)	0.75 (19.05)	-	0.62 (15.75)
SX4444	SW250	1/4 (6.35)	15,000 (1034)	.188 (4.78)	2.00 (50.80)	2.00 (50.80)	0.44 (11.18)	0.63 (15.88)	1.00 (25.40)	1.00 (25.40)	-	0.75 (19.05)
SX6666	SW375	3/8 (9.53)	15,000 (1034)	.312 (7.92)	2.00 (50.80)	2.00 (50.80)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	1.00 (25.40)	-	0.75 (19.05)
SX8888	SW500	1/2 (12.70)	10,000 (689)	.438 (11.13)	2.50 (63.50)	2.50 (63.50)	0.53 (13.46)	0.93 (23.62)	1.25 (31.75)	1.25 (31.75)	-	1.00 (25.40)
	† E	F	C -PM Option	↑ A		Actual wo All dimens For promp Consult yo	rking pressusions for refe ot service, P our local rep	ure may be erence only arker Autocoresentative	determined and subject lave Engine	by tubing p t to change. ers stocks	of any compressure rating select producer. Consult	ng, if lower.
	Cross											

Straight Coupling



Bulkhead Coupling

Bulkhead Coupling

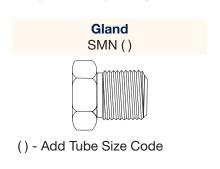
Catalog	Connection	Outside	Pressure	Orifice			Dimens	ions - inch	es (mm)		
Catalog Number	Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	E	F	G Thickness
15BF2211	W125	1/8 (3.18)	15,000 (1034)	.094 (2.39)	0.69 (17.53)	1.75 (44.45)	0.31 (7.87)	0.38 (9.53)	0.38 (9.53)	0.75 (19.05)	0.38 (9.53)
6BF4422	SW250	1/4 (6.35)	15,000 (1034)	.188 (4.78)	0.94 (23.88)	1.88 (47.75)	0.44 (11.18)	0.63 (15.88)	0.50 (12.70)	1.00 (25.403)	0.38 (9.53)
6BF6622	SW375	3/8 (9.53)	15,000 (1034)	.312 (7.92)	0.94 (23.88)	1.88 (47.75)	0.53 (13.46)	0.75 (19.05)	0.50 (12.70)	1.00 (25.403)	0.38 (9.53)
4BF8822	SW500	1/2 (12.70)	10,000 (689)	.438 (11.13)	1.12 (28.45)	2.38 (60.45)	0.53 (13.46)	0.93 (23.62)	0.78 (19.81)	1.38 (35.05)	0.38 (9.53)
(12.70) (689) (11.13) (28.45)							nt. rking pressu ower. sions for refe	ure may be o	determined and subject	west rating by tubing p t to change.	ressure

For mounting hole option add suffix $\mbox{\bf PM}$ to catalog number. Consult factory for mounting hole dimensions.

Mini Series Fittings - Pressures to 15,000 psi (1034 bar)

Connection Components:

All valves and fittings are supplied complete with appropriate glands and compression sleeves. To order these components separately, use order numbers listed. When using plug, ferrule sleeve is not required.



1/16" - 10

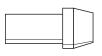
Example: 1/16" Gland Nut = SMN10



() - Add Tube Size Code

Example: 1/8" Ferrule Sleeve = SSL20





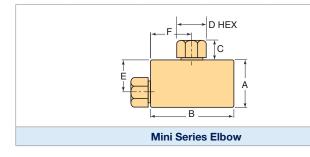
() - Add Tube Size Code

Note: Special material glands are normally supplied with four flats in place of standard hex.

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

Mini Series Elbow

Catalog	Connection	Outside	Pressure	Orifice			Dimensi	ons - inch	es (mm)			Block
Number	Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	Е	F		Thickness
MLE1100	W062	1/16 (1.59)	15,000 (1034)	.055 (1.40)	1.00 (24.40)	1.00 (24.40)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)	-	0.56 (14.27)
MLE2200	W125	1/8 (3.18)	15,000 (1034)	.093 (2.36)	1.00 (24.40)	1.00 (24.40)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)	-	0.56 (14.27)



*Maximum pressure rating is based on the lowest rating of any component.

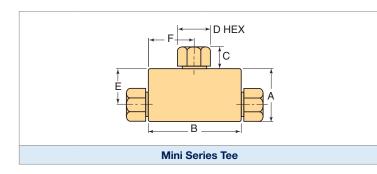
Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Mini Series Tee

Catalog	Connection	Outside	Pressure	Orifice			Dimens	ions - inch	ies (mm)			Block
Number	Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	Е	F		Thickness
MTE1110	W062	1/16 (1.59)	15,000 (1034)	.055 (1.40)	1.00 (24.40)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)	-	0.56 (14.27)
MTE2200	W125	1/8 (3.18)	15,000 (1034)	.093 (2.36)	1.00 (24.40)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)	-	0.56 (14.27)



*Maximum pressure rating is based on the lowest rating of any component.

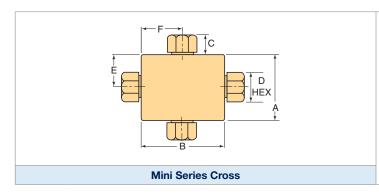
Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Mini Series Cross

Catalog	Connection	Outside	Pressure	Orifice			Dimensi	ions - inch	es (mm)			Block
Catalog Number	Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	Е	F		Thickness
MXE1111	W062	1/16 (1.59)	15,000 (1034)	.055 (1.40)	1.38 (34.93)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)	-	0.56 (14.27)
MXE2222	W125	1/8 (3.18)	15,000 (1034)	.093 (2.36)	1.38 (34.93)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)	-	0.56 (14.27)

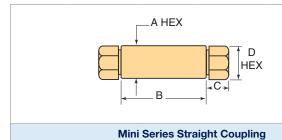


*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Mini Series Straight Coupling

Catalog	Connection	Outside	Pressure	Orifice	Dimensions - inches (mm)						
Number	Type	Diameter Tube	Rating psi (bar)*	inches (mm)	А	В	С	D Typical	Е	F	
MCE1110	W062	1/16 (1.59)	15,000 (1034)	.055 (1.40)	0.50 (12.70)	1.25 (31.75)	0.31 (7.87)	0.38 (9.53)			-
MCE2200	W125	1/8 (3.18)	15,000 (1034)	.093 (2.36)	0.50 (12.70)	1.25 (31.75	0.31 (7.87)	0.38 (9.53)			-



*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Low Pressure Tubing - Pressures to 15,000 psi (1034 bar)



Parker Autoclave Engineers offers a complete selection of annealed, seamless stainless steel tubing designed to match the performance standards of Parker Autoclave Low Pressure valves and fittings. This tubing is manufactured of UNS S316/S31603, 316/316L Stainless Steel and furnished in random lengths between 20 feet (6 meters) and 26.5 feet (8 meters). In order to ensure proper sleeve "bite" into tubing, Parker Autoclave Engineers specifies and controls the strength and hardness levels of both the tube and sleeve materials.

Inspection and Testing:

Parker Autoclave Engineers annealed low pressure tubing is inspected for compliance with specified defect restrictions as well as carburization or intergranular carbide precipitation. The tubing outside diameter and wall thickness is controlled within close tolerance to assure proper fit. Sample pieces of tube (for each lot) are tested to confirm mechanical properties for proper compression sleeve "bite" and pressure capability. Furthermore, the sample tubes are pressure tested as a final check.

Special Material:

In addition to the type 316/316L stainless steel tubing in the annealed condition listed in this section, Parker Autoclave Engineers has a limited stock of hard-to-obtain shorter lengths of the following tubing materials:

Monel*, Inconel 600*, Titanium Grade 2*, Hastelloy C276*, Inconel 625*, and Incoloy 825* (See Technical Catalog for additional information)

Note: * Trademark names, Please consult factory for stock availabilty.

NACE MR0175/ISO 15156 Options are available. Consult Factory.

Tubing Tolerance:

Nominal Tubing Size inches	Tolerance/Outside Diameter inches (mm)
1/16	.064/.062 (1.62/1.57)
1/8	.128/.125 (3.25/3.18)
1/4	.254/.250 (6.45/6.35)
3/8	.379/.375 (9.74/9.53)
1/2	.505/.500 (12.83/12.70)

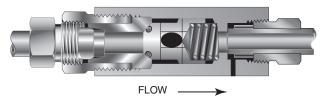
Tubing Details: 316/316L, UNS S31600/S31603 Stainless Steel (Annealed) to commercial OD sizing tolerances

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Catalog	Material Connection			Tube Size inches (mm)		Flow Area	Working Pressure psi (bar)*								
Number	Material	Type	Outside Diameter	Inside Diameter	Wall Thickness	in² (mm²)	-100 to 100°F (-73 to 37.8°C)	200°F (93°C)	400°F (204°C)	600°F (316°C)	650°F (343°C)				
MS15-070	316SS	W062	1/16 (1.59)	0.026 (0.66)	.018 (0.45)	0.0005 (0.32)	15,000 (1034)	15,000 (1034)	14,400 (992)	13,600 (937)	12,600 (868)				
MS15-200	316SS	W125	1/8 (3.18)	0.052 (1.32)	.036 (0.91)	0.002 (1.29)	15,000 (1034)	15,000 (1034)	14,400 (992)	13,600 (937)	12,600 (868)				
MS15-051	31033	W125	(3.18)	0.062 (1.57)	.032 (0.81)	0.003 (1.94)	11,650 (803)	11,650 (803)	11,250 (715)	10,680 (730)	9,850 (630)				
MS15-203	316SS	SW250	1/4	0.084 (2.13)	0.083 (2.11)	0.006 (3.87)	15,000 (1034)	15,000 (1034)	14,400 (992)	13,600 (937)	12,600 (868)				
MS15-055	31033	300250	(6.35)	0.125 (3.18)	0.062 (1.57)	0.012 (7.74)	11,650 (8034)	11,650 (8034)	11,250 (775)	10,600 (730)	9,850 (679)				
MS15-204				0.139 (3.53)	0.118 (3.00)	0.015 (9.79)	15,000 (1034)	15,000 (1034)	14,400 (992)	13,600 (937)	12,600 (868)				
MS15-084	316SS	SW375	3/8 (9.53)	0.195 (4.95)	0.090 (2.29)	0.030 (19.40)	10,000 (690)	10,000 (690)	9,650 (665)	9,000 (620)	8,400 (580)				
MS15-062				0.250 (6.35)	0.062 (1.57)	0.049 (31.61)	7,500 (517)	7,500 (517)	7,200 (496)	6,800 (468)	6,300 (434)				
MS15-205	316SS	SWEOO	1/2	0.270 (6.86)	0.118 (3.00)	0.055 (35.48)	10,000 (689)	10,000 (689)	9,650 (665)	9,000 (620)	8,400 (579)				
MS15-065	31033	SW500	SW500	SW500	SW500	3SS SW500	(12.70)	0.375 (9.53)	0.062 (1.57)	0.110 (70.97)	5,500 (379)	5,500 (379)	5,250 (361)	4,950 (341)	4,600 (317)

Low Pressure Check Valves - Pressures to 15,000 psi (1034 bar)



SWO Series O-Ring Check Valve

Provide unidirectional flow and tight shut-off for liquids and gases with high reliability. When differential drops below cracking pressure, valve shuts off. (**Not for use as relief valve.**)

Temperature Ranges:

Viton (FKM) O-ring (std.): 0° to 400°F (-18° to 204°C)
Buna-N O-ring (**-BO** suffix): 0° to 250°F (-18° to 121°C)
FFKM O-ring (**-KO** suffix): 30° to 500°F (-18° to 260°C)
PTFE O-ring (**-TO** suffix): -100° to 400°F (-73° to 204°C)
PTFE O-ring with Low Temp Spring (**-LTTO** suffix): to -100°F (-73°C)

Cracking Pressure: 20 psi (1.38 bar) ±30%. Springs for higher cracking pressures up to 100 psi available on special order for O-ring style check valves only.

Installation: Vertical or Horizontal as required. Flow Direction Arrow marked on valve body.

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

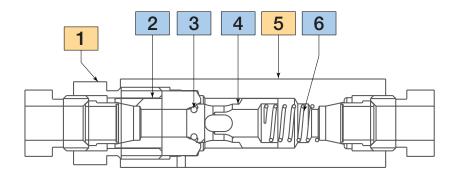
Material of Construction:

Item #	Description	Material
1	Gland Nut	316 SS
2	Cover	316 SS
3	O-ring	FKM
4	Poppet	316 SS
5	Body	316 SS
6	Spring	302 SS
	Typical spare parts found in Repair k	(its

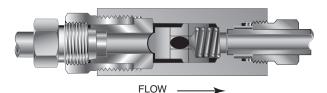
O-Ring Check Valve Repair Kits:

Check Valves are easily repaired. Add "R" to front of valve catalog number for proper repair kit (example: RSWO8800)

See "Cover Torque" on page 14 for re-assembly. Include any catalog number suffix marked on original part when ordering repair kit.



Low Pressure Check Valves - Pressures to 15,000 psi (1034 bar)



SWB Series Ball Check Valve

Prevent reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valve closes. With all-metal components, valve can be used up to 650°F (343°C). See Technical Information section for connection temperature limitations. (**Not for use as relief valve.**)

Ball and poppet are an integral design to assure positive, in-line seating without "chatter". Poppet is designed essentially for axial flow with minimum pressure drop.

Cracking Pressure: 20 psi (1.38 bar) +/- 30% Optional cracking pressures **NOT** available in Ball Style Check Valves

Temperature: Minimum operating temperature for standard ball check valves 0°F (-17.8°C). For low temperature option to -100°F (-73°C) add suffix **LT** (Low temperature spring).

Installation: Vertical or Horizontal as required. Flow Direction Arrow marked on valve body.

NOTE: For optional material see Technical Brochure. Special material check valves are normally supplied with four flats in place of standard hex.

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

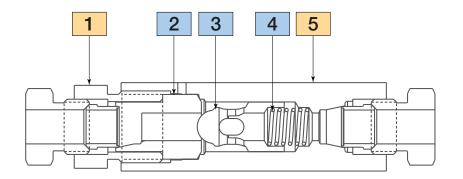
Material of Construction:

Item #	Description	Material
1	Gland Nut	316 SS
2	Cover	316 SS
3	Poppet	316 SS
4	Spring	302 SS
5	Body	316 SS
	Typical spare parts found in Repair K	lits

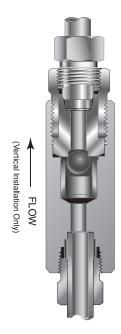
Basic Ball Check Valve Repair Kits:

Check Valves are easily repaired. Add "R" to front of valve catalog number for proper repair kit (example: RSWB6600)

See "Cover Torque" on page 14 for re-assembly. Include any catalog number suffix marked on original part when ordering repair kit.



Low Pressure Check Valves - Pressures to 15,000 psi (1034 bar)



SWK Series Ball Type **Excess Flow Valves**

Protects pressure gauges and pressure instrumentation from sudden surges in flow or venting in the event of line failure.

Vertical Installation: Since this type of check valve employs a non-spring loaded ball, valve MUST be installed in VERTICAL position with arrow on valve body pointing UP. (cover gland up).

Resetting Valve: Equalize the pressure across the ball. The ball will drop and reset automatically.

Temperature: Operating temperature for standard ball excess flow valves -100°F to 650°F (-73° to 343°C).

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

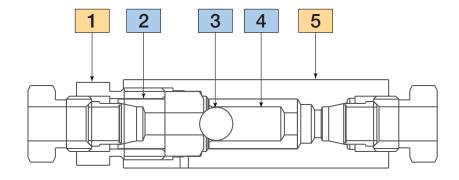
Material of Construction:

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Ball Type Excess Flow Repair Kits:

Excess Flow Valves are easily repaired. Add "R" to front of valve catalog number for proper repair kit. (example: RSWK8802)

See "Cover Torque" on page 14 for re-assembly. Include any catalog number suffix marked on original part when ordering repair kit.



Low Pressure Check Valves - Pressures to 15,000 psi (1034 bar)



SWKO Series O-Ring Type Excess Flow Valves

Protects pressure gauges and other pressure instrumentation from sudden surges in flow due to operator error or line failure. This valve provides dependable, tight shut-off.

Vertical Installation: Since this type of check valve employs a non-spring loaded poppet, valve MUST be installed in VERTICAL position with arrow on valve body pointing UP. (cover gland up).

Resetting Valve: Equalize the pressure across the poppet. The poppet will drop and reset automatically.

Temperature Ranges:

Viton (FKM) O-ring (std.): 0° to 400°F (-18° to 204°C) Buna-N O-ring (**-BO** suffix): 0° to 250°F (-18° to 121°C) PTFE O-ring (**-TO** suffix): -100° to 400°F (-73° to 204°C)

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

CAUTION: See Tubing section for proper selection of tubing.

(See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

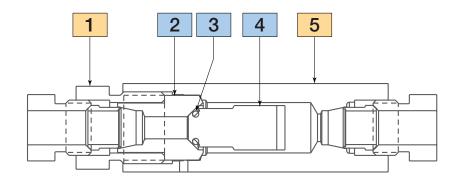
Material of Construction:

Item #	Description	Material								
1	Gland Nut	316 SS								
2	Cover	316 SS								
3	O-Ring	FKM								
4	Sleeve	316 SS								
5	Body	316SS								
	Typical spare parts found in Repair Kits									

O-Ring Excess Flow Valve Repair Kits:

Excess Flow Valves are easily repaired. Add "R" to front of valve catalog number for proper repair kit (example: RSWKO6600)

See "Cover Torque" on page 14 for re-assembly. Include any catalog number suffix marked on original part when ordering repair kit.



SWO O-Ring Check Valves

Catalog	Fits	Pressure	Orifice	Rated	Cover		Dimer	sions - inches	s (mm)	
Number	Connection Type	Rating psi (bar)*	inches (mm)	Cv	Torque ft.lb (Nm)	Α	В	С	D Typical	Hex
SWO2200	W125	15,000 (1034)	.094 (2.39)	.15	.20 (27)	2.25 (57.15)	1.88 (47.75)	0.31 (7.87)	0.38 (9.6)	0.63 (15.88)
SWO4400	SW250	15,000 (1034)	.188 (4.78)	.63	.20 (27)	3.18 (80.77)	2.56 (65.02)	0.44 (11.18)	0.63 (15.88)	0.81 (20.57)
SWO6600	SW375	15,000 (1034)	.250 (6.35)	1.70	.55 (75)	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)
SWO8800	SW500	10,000 (689)	.375 (9.53)	3.40	.70 (95)	4.18 (106.17)	3.50 (89.90)	0.53 (13.46)	0.93 (23.62)	1.38 (35.05)

SWB Ball Check Valves

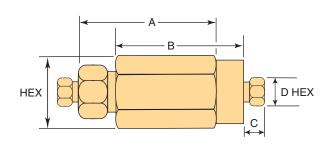
SWB2200	W125	15,000 (1034)	.094 (2.39)	.15	.20 (27)	2.25 (57.15)	1.88 (47.75)	0.31 (7.87)	0.38 (9.6)	0.63 (15.88)
SWB4400	SW250	15,000 (1034)	.188 (4.78)	.63	.45 (61)	3.18 (80.77)	2.56 (65.02)	0.44 (11.18)	0.63 (15.88)	0.81 (20.57)
SWB6600	SW375	15,000 (1034)	.250 (6.35)	1.70	.55 (75)	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)
SWB8800	SW500	10,000 (689)	.375 (9.53)	3.40	.50 (68)	4.18 (106.17)	3.50 (89.90)	0.53 (13.46)	0.93 (23.62)	1.38 (35.05)

SWK Ball Type Excess Flow Valves

SWK2202	W125	15,000 (1034)	.094 (2.39)	.12†	.20 (27)	2.25 (57.15)	1.88 (47.75)	0.31 (7.87)	0.38 (9.6)	0.63 (15.88)
SWK4402	SW250	15,000 (1034)	.188 (4.78)	.37†	.40 (54)	3.18 (80.77)	2.56 (65.02)	0.44 (11.18)	0.63 (15.88)	0.81 (20.57)
SWK6602	SW375	15,000 (1034)	.250 (6.35)	.104†	.80 (110)	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)
SWK8802	SW500	10,000 (689)	.375 (9.53)	.212†	.50 (68)	4.18 (106.17)	3.50 (89.90)	0.53 (13.46)	0.93 (23.62)	1.38 (35.05)

SWKO O-Ring Type Excess Flow Valves

SWKO4400	SW250	15,000 (1034)	.188 (4.78)	3††	.40 (54)	3.12 (79.25)	2.56 (65.02)	0.44 (11.18)	0.63 (15.88)	0.81 (20.57)
SWKO6600	SW375	15,000 (1034)	.250 (6.35)	5††	.40 (54)	3.50 (88.90)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)
SWKO8800	SW500	10,000 (689)	.375 (9.53)	10††	.50 (68)	4.31 (109.47)	3.50 (89.90)	0.53 (13.46)	0.93 (23.62)	1.38 (35.05)



Check and Excess Flow Valves

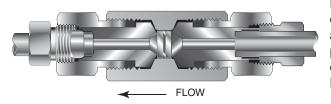
Note:

All check valves are furnished complete with connection components unless otherwise specified.

- † Check Flow** water, GPM
- †† Check Flow** CFM, nitrogen @ 500 psi (34.47 bar), RT ** For flow using alternate fluids, consult Parker Autoclave Engineers.

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. All dimensions for reference only and subject to change. For prompt service, Parker Autoclave stocks select products. Consult your local representative.

Low Pressure Line Filter - Pressures to 15,000 psi (1034 bar)



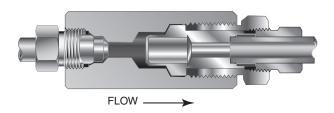
SLF Series Dual Disc Line Filters

Dual-Disc Line Filters are utilized in numerous industrial, chemical processing, aerospace, nuclear and other applications. With the dual-disc design, large contaminant particles are trapped by the upstream filter element before they can reach and clog the smaller micron-size downstream element. Filter elements can be easily replaced.

Materials:

Body, Cover, and Gland Nut - CW 316 Stainless Steel

Filter Element: 316L Stainless Steel, Sintered Disc Type Downstream/upstream micron size 35/65 is standard. 5/10 or 10/35 also available when specified. Other element combinations available on special order.



SWF Series Cup Type Line Filters

High Flow Cup-Type Line Filters are recommended in low pressure systems requiring both high flow rates and maximum filter surface area. Widely used in the industrial and chemical processing fields, the cup design offers as much as six times the effective filter area as compared to disc-type units. In addition, the filter elements can be quickly and easily replaced.

Materials:

Body, Cover, and Gland Nut - CW 316 Stainless Steel.

Filter Element: 316L Stainless Steel, Sintered Cup Type. Standard elements available in choice of 5, 35 or 65 micron sizes. **Note:** Filter ratings are nominal.

Spare Parts: Filter Elements are only replaceable part with either filter type. See chart on page 14 for Filter Element part numbers.

Temperature Range: Both Models -100° to 650°F (-73° to 343°C). (See "Technical Brochure" for Pressure/Temperature effect on temperatures above ambient.)

- NOTE 1: All filters furnished complete with connection components unless otherwise specified. All dimensions for reference only and subject to change. For optional materials, see Needle Valve Options section
- NOTE 2: Parker Autoclave Engineers disc and cup type filters are designed to filter small amounts of process particles. It is recommended that all fluids are thoroughly cleaned prior to entering the higher pressure system.
- NOTE 3: Special material filters are normally supplied with four flats in place of standard hex.
- NOTE 4: Pressure differential not to exceed 1,000 psi (69 bar) in a flowing condition. Filter replacement is recommended.
- NOTE 5: Larger micron size filter element is installed on the upstream (inlet) side.

SLF Dual Disc Line Filters

Catalog	Pressure	Orifice	Micron	Poploomont	Connection	Effective Filter		Dimensi	ons - incl	nes (mm)			
Number	Rating inches		Size and Type	Elements Area in ² (mm ²)	Α	В	С	D Typical	Hex				
SLF2200			35/65	65um=P-0562									
SLF2200-5/10	15,000 (1034)	.094	5/10	35um=P-0870 10um=P-1750	W125	.06 (38.70)	2.31 (58.67)	1.25 (31.75)	0.31 (7.87)	0.38 (9.6)	0.62		
SLF2200-10/35	(1034)	(2.39)	10/35	5um=P-1749		(30.70)	(36.07)	(31.73)	(1.01)	(9.0)	(15.74)		
SLF4400		.125			35/65	65um=P-0650							
SLF4400-5/10	15,000 (1034)		5/10	35um=P-0805 10um=P-1785	SW250	.15 (96.77)	2.94 (75.56)	1.68 (42.67)	0.44 (11.17)	0.63 (15.88)	0.81 (20.57)		
SLF4400-10/35	(1004)	(0.10)	10/35	5um=P-1650			(10.00)	(42.07)	(11.17)	(13.00)	(20.57)		
SLF6600			35/65	65um=P-0650			2.94	1.68			1.00		
SLF6600-5/10	15,000 (1034)	.188 (4.78)	5/10	35um=P-0805 10um=P-1785	SW375	.15 (96.77)			0.53 (13.46)	0.75 (19.05)			
SLF6600-10/35	(1034)	(4.70)	10/35	5um=P-1650		(90.77)	(75.56	(42.67)	(13.40)	(19.03)	(25.40)		
SLF8800			35/65	65um=P-0764					0.53 (13.46)		1.18 (29.97)		
SLF8800-5/10	10,000 (689)	.250	5/10	35um=P-0794 10um=P-1784	SW500	.25 (161.29)	3.56 (90.42)	1.94 (49.27)		0.93 (23.62)			
SLF8800-10/35	(009)	(6.35)	(0.00)	5um=P-1783		(101.29)	(30.42)	(43.21)	(13.40)	(20.02)	(23.91)		

SWF Cup T	ype Lin	e Filte	ers												
SWF4-5			5	201A-2916											
SWF4-35	15,000 (1034)	.188 (4.78)	35	203A-2916	SW250	.81 (522.57)	3.18 (80.77)	2.56 (65.02)	0.44 (11.17)	0.63 (15.88)	0.81 (20.57)				
SWF4-65	(1004)	(4.70)	65	204A-2916		(022.01)	(00.77)	(03.02)	(11.17)	(13.00)	(20.57)				
SWF6-5	45.000	0.10	5	201A-2916			0.50	0.00	0.50	0.75	4.00				
SWF6-35	15,000 (1034)	.312 (7.92)	35	203A-2916	SW375	.81 (522.57)	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)				
SWF6-65	(1001)	(1.02)	65	204A-2916		(022.01)	(00.12)	(10.20)	(10.10)	(10.00)	(20.10)				
SWF8-5	10.000	5 205A-2916	0.40	0.50	0.50	0.93	1.38								
SWF8-35	10,000 (689)	(11.13)			.438		35	207A-2916	SW500	1.53 (987.09)	3.18 (80.77)	2.56 (65.02)	0.53 (13.46	(23.62)	(35.05)
SWF8-65	()	(*****)	65	208A-2916		(551155)	(2011)	(55152)	(1111	(====)	(0000)				
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SLF Du	ıal Disc Lin	e Filters		SWF											