

## SINGLE BALL STEEL CHECK VALVES

Single Ball Steel Check Valves are designed for use in hydraulic or lubrication systems with pressures up to 5,000 PSI. Available in two models for use as inlet or outlet check valves. An arrow stamped on the body indicates flow direction. The standard type ball and spring principle is used.



### Features

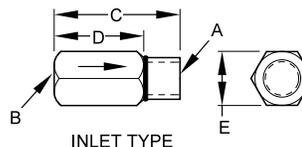
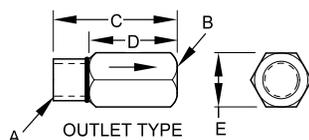
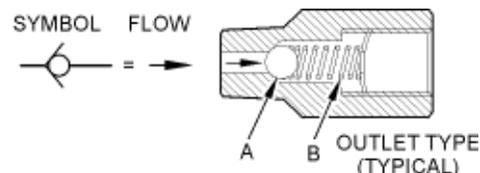
- Positive seal prevents leakage and backflow
- Compact and easy to install

### Specifications

Lubricant (Mineral Based and Synthetic) ..... Oil and Grease  
 Net Weight (approx.) ..... 1 oz. (28g)  
 See table below for dimensions specifications and materials.

### Operation

The check valve is installed with the arrow on the body facing in the direction of flow. Incoming flow pushes ball (A) from the valve seat, compressing spring (B), permitting lubricant to flow through the check valve to the lube points. When flow stops, spring (B) expands, reseating ball (A) creating a positive seal.



NOTE: STRAIGHT THREAD CHECK VALVES  
 INCLUDED O-RING AT BASE OF MALE THREADS

## Single Ball Check Valve Dimensions and Ordering Information

Pipe Size		C	D	E HEX	Pressure		Material			
Inlet "A"	Outlet "B"				Nom. Cracking PSI (bar)	Max. Operating PSI (bar)	Body	Spring	Ball	Part Number
1/8 NPTF (M)	1/8 NPSF (F)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	10 (0.7)	5000 (345)	Steel	Steel	Steel	509-350-010
1/8 NPTF (F)	1/8 NPSF (M)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	15 (1)	5000 (345)	Steel	Steel	Steel	509-355-010
1/8 NPTF (M)	1/8 NPSF (F)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	35 (2)	5000 (345)	Steel	Steel	Steel	509-350-030
1/8 NPTF (F)	1/8 NPSF (M)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	35 (2)	5000 (345)	Steel	Steel	Steel	509-355-030
1/8 NPTF (F)	1/8 NPSF (M)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	60 (4)	5000 (345)	Steel	Steel	Steel	509-355-060
1/8 NPTF (M)	1/8 NPSF (F)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	100 (7)	5000 (345)	Steel	Steel	Steel	509-350-100
1/8 NPTF (M)	1/8 NPSF (F)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	125 (9)	5000 (345)	Steel	Steel	Steel	509-350-120
1/8 NPTF (M)	1/8 NPSF (F)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	250 (17)	5000 (345)	Steel	Steel	Steel	509-350-250
1/8 NPTF (F)	1/8 NPSF (M)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	250 (17)	5000 (345)	Steel	Steel	Steel	509-355-250
1/8 NPTF (M)	1/8 NPSF (F)	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	360 (25)	5000 (345)	Steel	Steel	Steel	463-001-582
1/4 NPTF (M)	1/4 NPSF (F)	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	10 (0.7)	5000 (345)	Steel	Steel	Steel	509-360-010
1/4 NPTF (F)	1/4 NPSF (M)	1.75 (44.5)	0.68 (17.4)	0.68 (17.4)	10 (0.7)	5000 (345)	Steel	Steel	Steel	509-365-010
1/4 NPTF (M)	1/4 NPSF (F)	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	35 (2)	5000 (345)	Steel	Steel	Steel	509-360-030
1/4 NPTF (F)	1/4 NPSF (M)	1.75 (44.5)	0.68 (17.4)	0.68 (17.4)	35 (2)	5000 (345)	Steel	Steel	Steel	509-365-030
1/4 NPTF (M)	1/4 NPSF (F)	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	35 (2)	5000 (345)	Steel *	Steel	Steel	509-360-035
1/4 NPTF (M)	1/4 NPSF (F)	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	100 (7)	5000 (345)	Steel	Steel	Steel	509-360-100
1/4 NPTF (M)	1/4 NPSF (F)	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	250 (17)	5000 (345)	Steel	Steel	Steel	509-360-250

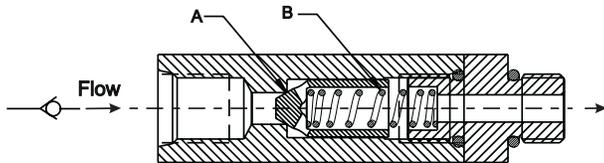
\* Nickel Plated

Single Ball Check Valve Dimensions and Ordering Information con'd

Straight Thread Check Valves, SAE										
Tube Size		C	D	E HEX	Pressure		Material			Part Number
Inlet "A"	Outlet "B"				Nom. Cracking PSI (bar)	Max. Operating PSI (bar)	Body	Spring	Ball	
7/16-20 SAE (M)	7/16-20 SAE (F)	1.56 (39.6)	1.20 (30.5)	0.62 (15.7)	35 (2)	3500 (242)	S.S.	Steel	Steel	463-001-589
9/16-18 SAE (M)	9/16-18 SAE (F)	1.68 (42.7)	1.30 (33.0)	0.75 (19.0)	35 (2)	3500 (242)	S.S.	Steel	Steel	463-001-590
9/16-18 SAE (F)	9/16-18 SAE (M)	1.75 (44.5)	1.36 (34.5)	0.81 (20.6)	35 (2)	5000 (345)	S.S.	Steel	Steel	463-001-600
7/16-20 SAE (F)	7/16-20 SAE (M)	1.44 (36.6)	1.08 (27.4)	0.69 (17.4)	60 (4)	5000 (345)	S.S.	Steel	Steel	463-001-601
Straight Thread Check Valves - BSPP, "G"										
1/8 BSPP (M)	1/8 BSPP (F)	1.27 (32.3)	1.03 (26.1)	0.62 (15.9)	35 (2)	5000 (345)	Steel	Steel	Steel	463-001-573
1/4 BSPP (F)	1/4 BSPP (M)	1.79 (45.4)	1.41 (35.7)	0.88 (22.3)	35 (2)	5000 (345)	Steel	Steel	Steel	463-001-621
1/8 BSPP (F)	1/8 BSPP (M)	1.27 (32.1)	1.03 (26.1)	0.62 (15.9)	35 (2)	3000 (207)	Steel	Steel	Steel	463-001-622
Straight Thread Check Valves - Metric (ISO 6149)										
M12x1.5 (F)	M12x1.5 (M)	1.84 (46.8)	1.41 (35.8)	0.78 (20.0)	35 (2)	5000 (345)	Steel	Steel	Steel	463-001-630
M10x1 (M)	M10x1 (F)	1.56 (39.6)	1.22 (31.1)	0.78 (20.0)	35 (2)	5000 (345)	Steel	Steel	Steel	463-001-632

HI SHOCK STEEL CHECK VALVES

Hi Shock Steel Check Valves are a poppet type designed specifically for the harsh operating conditions encountered in the circulating oil systems found on modern high speed metal forming presses.



Features

- Hardened poppet provides long life
- Available with SAE straight, or pipe threads

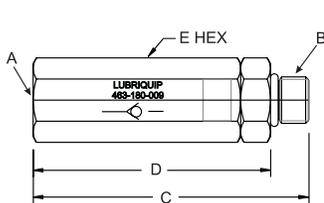
Specifications

Material ..... Steel body, hardened steel poppet  
 Maximum Operating Pressure ..... 3500 PSI (241 bar)  
 Maximum Operating Temperature ..... 250°F (121°C)  
 Cracking Pressure ..... 200 PSI (14 bar)  
 Lubricant (Mineral base and Synthetic) ..... Oil

Operation

The check valve is installed with the arrow on the body facing in the direction of flow. Incoming flow pushes poppet (A) from the valve seat, compressing spring (B), permitting lubricant to flow through the check valve. When flow stops, spring (B) expands, reseating poppet (A) thus preventing back flow.

High Shock Check Valve Dimensions and Ordering Information

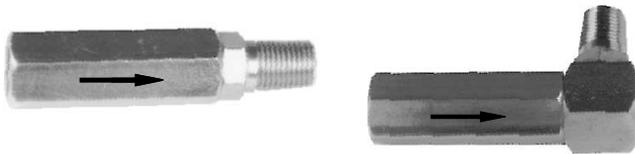


Inlet	Outlet	Thread Size/Type		Dimensions				Part Number
		A	B	C	D	E		
Female	Male	7/16-20 SAE	7/16-20 SAE	2.59 (65.8)	2.23 (56.6)	0.69 (17.5)	463-180-009*	
Female	Male	1/4-18 NPSF	1/8-27 NPTF	2.15 (54.6)	1.77 (45.0)	1.00 (25.4)	463-180-010	
Male	Female	9/16-18 SAE	9/16-18 SAE	2.39 (60.7)	1.99 (50.5)	0.75 (19.0)	463-180-011	

\* Supplied less O-ring on male thread

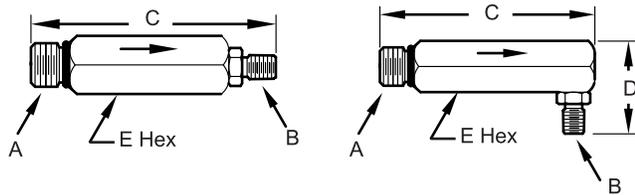
## DOUBLE BALL CHECK VALVES

Double Ball Check Valves are designed for high pressure applications where reverse leakage must be kept to a minimum. Typical applications include engine and compressor cylinder lubrication, and hydraulic systems. Check valves can be used to isolate parts of circuits and to prevent fluid drainage due to gravity. A relatively stiff bias spring in these valves serves to increase the reliability of circuits designed to detect a blockage or reduction in lubricant flow. This bias spring also can provide a controlled pressure in hydraulic circuits. The right angle configuration allows convenient installation in a wide variety of plumbing configurations. Application is similar to straight body double ball check valves.



### Features

- Various inlet and outlet sizes and configurations
- Positive sealing check valve



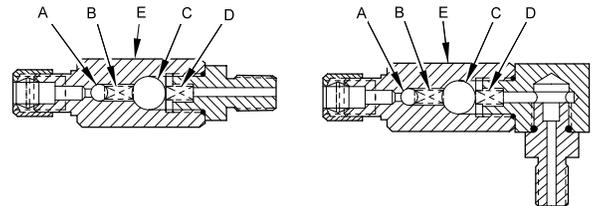
### Specifications

Lubricant (Mineral Based and Synthetic) ..... Oil and Grease  
See table below for dimensions, specifications and materials.

Maximum Operating Temperature ..... 400 °F (204.5 °C)

### Operation

Fluid flow entering the check valve creates a pressure on the smaller ball (A). If the pressure created is higher than the opposing force of the bias spring (B), the smaller ball is moved off its seat inside the valve body (E). This allows flow to create a similar pressure and action on the larger ball (C) and spring (D). Flow then continues on to the outlet of the check valve. If flow is reversed in the circuit, flow force and spring (D) cause ball (C) to be resealed. Any leakage around ball (C) is blocked by ball (A) that is firmly seated by bias spring (B).



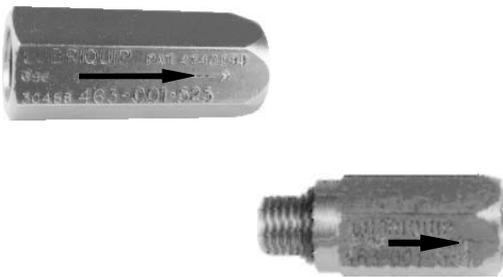
### Double Ball Check Valve Dimensions and Ordering Information

Inlet "A"	Outlet "B"	C	D	E HEX	Pressure		Material			Part Number
					Nom. Cracking PSI (bar)	Max. Operating PSI (bar)	Body	Spring	Ball	
<b>Straight</b>										
1/4" OD Tube	1/8-27 NPTF (M)	3.00 (76.2)	N/A	.75 (19.1)	90 (6)	6000 (414)	Carbon Steel	Stainless Steel	Stainless Steel	070200
1/4" OD Tube	1/4-18 NPTF (M)	3.19 (81.0)	N/A	.75 (19.1)	90 (6)	6000 (414)	Carbon Steel	Stainless Steel	Stainless Steel	070201
1/4-18 NPTF (F)	1/4-18 NPTF (M)	3.21 (81.5)	N/A	.75 (19.1)	90 (6)	8000 (552)	Carbon Steel	Stainless Steel	Stainless Steel	070205
1/8-27 NPTF (F)	1/8-27 NPTF (M)	3.19 (81.0)	N/A	.75 (19.1)	90 (6)	8000 (552)	Carbon Steel	Stainless Steel	Stainless Steel	070206
1/8-27 NPTF (F)	1/4-18 NPTF (M)	3.19 (81.0)	N/A	.75 (19.1)	110 (7)	8000 (552)	Carbon Steel	Stainless Steel	Stainless Steel	070207
1/4-18 NPTF (F)	1/4-18 NPTF (M)	3.19 (81.0)	N/A	.75 (19.1)	110 (7)	8000 (552)	Stainless Steel	Stainless Steel	Stainless Steel	070252
1/8-27 NPTF (F)	1/8-27 NPTF (M)	3.19 (81.0)	N/A	.75 (19.1)	110 (7)	8000 (552)	Stainless Steel	Stainless Steel	Stainless Steel	070253
1/8-27 NPTF (F)	1/4-18 NPTF (M)	3.19 (81.0)	N/A	.75 (19.1)	110 (7)	8000 (552)	Stainless Steel	Stainless Steel	Stainless Steel	070254
1/4-18 NPTF (F)	1/8-27 NPTF (M)	2.75 (69.9)	N/A	.75 (19.1)	110 (7)	8000 (552)	Stainless Steel	Stainless Steel	Stainless Steel	070255
<b>Angle</b>										
1/4" OD Tube	1/4-18 NPTF (M)	2.50 (63.5)	1.53 (38.9)	.94 (23.9)	90 (6)	8000 (552)	Carbon Steel	Stainless Steel	Stainless Steel	040233
1/4" OD Tube	1/4 NPTF (M)	3.00 (76.2)	1.60 (40.6)	.75 (19.1)	90 (6)	8000 (552)	Carbon Steel	Stainless Steel	Stainless Steel	070202
1/8-27 NPTF (F)	1/4-18 NPTF (M)	3.00 (76.2)	1.78 (45.2)	.75 (19.1)	110 (7)	8000 (552)	Carbon Steel	Stainless Steel	Stainless Steel	070211
1/8-27 NPTF (F)	1/4-18 NPTF (M)	2.75 (69.9)	1.78 (45.2)	.75 (19.1)	110 (7)	8000 (552)	Stainless Steel	Stainless Steel	Stainless Steel	070274

## SOFT SEAT CHECK VALVES

Soft Seat Check Valves are designed for use in hydraulic or lubrication systems with pressures up to 7,500 PSI. A poppet and soft ball check design improves check valve reliability. This check valve is available in single and “double ball” versions. The “double ball” check valve contains a poppet and soft ball check, as well as a conventional steel ball back-up for added protection. An arrow stamped on the body indicates flow direction.

Available in a wide range of pipe thread and tube size inlet/outlet fitting combinations, this unit can be used in a variety of applications.



### Features

- Provides optimum sealing against reverse flow
- Tapered at outlet end to help identify flow direction

### Specifications

#### Material

Poppet (except 463-001-616) .....	Steel
Ball (Large, soft seat) .....	See Table
Ball (Small) .....	Steel

See table below for dimensions, pressure ratings and materials

#### Maximum Operating

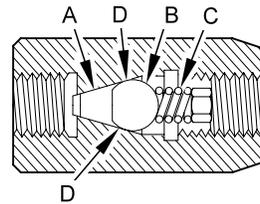
Temperature .....	Viton Ball 400 °F (204.5 °C)
	Buna N Ball 250 °F (121 °C)

Lubricant (Mineral Based and Synthetic) ..... Oil and Grease  
Compatible with Viton or Buna N Material

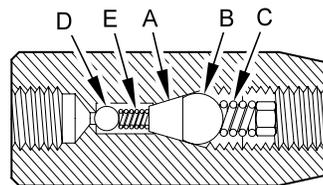
Net Weight .....	Single Ball 4 oz. (113g)
	Double Ball 5 oz. (142g)

### Operation

**Single Ball Soft Seat Check Valve.** Lubricant flow entering the check valve moves poppet (A), and Viton ball (B) forward, allowing lubricant to move around the poppet and ball, through the check valve, and out to the lube point. During flow through the check valve, the poppet and Viton ball remain nested together. When flow stops, spring (C) returns poppet (A) and ball (B) to the check position. The poppet functions only as an alignment and anti-extrusion mechanism for the Viton ball. The Viton ball provides the seal when seated against the check valve body at point (D).



**Double Ball Soft Seat Check Valve.** In the “double ball” version, the function is basically the same. In a flow condition, steel ball (D) moves off its seat compressing spring (E), causing poppet (A) and ball (B) to move forward allowing lube to flow around ball (D), poppet (A), and ball (B), through the check valve and out to the lube point.



Soft Seat Check Valve Dimensions and Ordering Information

Soft Seat Single Ball Check Valve

Inlet "A"	Outlet "B"	Figure	C	D	E HEX	Pressure		Material			Part Number
						Nom. Cracking PSI (bar)	Max. Operating PSI (bar)	Body	Spring	Ball	
1/4-18 NPSF (F)	1/4-18 NPSF (F)	A	1.94 (49.2)	—	0.75 (19.1)	48 (3)	7,500 (518)	Stainless	Steel	Viton	463-001-524
1/4-18 NPSF (F)	1/4-18 NPSF (F)	A	1.94 (49.2)	—	0.75 (19.1)	42 (3)	7,500 (518)	Stainless	Steel	Buna N	463-001-525
1/8-27 NPSF (F)	1/8-27 NPTF (M)	D	1.31 (33.3)	.94 (23.8)	0.58 (14.3)	35 (2)	100 (7)	Steel	Steel	Viton	463-001-535 *
1/8-27 NPTF (M)	1/8-27 NPSF (F)	D	1.28 (32.5)	.79 (20.1)	0.58 (14.3)	35 (2)	100 (7)	Steel	Steel	Viton	463-001-536 *
1/8-27 NPTF (M)	1/4-18 NPSF (F)	D	1.56 (39.7)	1.08 (27.3)	0.69 (17.4)	48 (3)	7,500 (518)	Stainless	Steel	Viton	463-001-580
7/16-20 SAE (F)	7/16-20 SAE (F)	A	1.94 (49.2)	—	0.63 (15.9)	35 (2)	7,500 (518)	Stainless	Steel	Viton	463-001-584
7/16-20 SAE (M)	7/16-20 SAE (F)	B	1.56 (39.7)	1.20 (30.5)	0.63 (15.9)	35 (2)	7,500 (518)	Stainless	Steel	Viton	463-001-585
9/16-18 SAE (M)	9/16-18 SAE (F)	B	1.69 (42.9)	2.42 (61.5)	0.75 (19.1)	48 (3)	7,500 (518)	Stainless	Steel	Viton	463-001-587
7/16-20 SAE (F)	7/16-20 SAE (M)	C	2.78 (70.6)	2.42 (61.5)	0.63 (15.9)	25 (2)	7,500 (518)	Stainless	Steel	Viton	463-001-593

Soft Seat Double Ball Check Valve

1/4-18 NPSF (F)	1/4-18 NPSF (F)	A	2.41 (61.1)	—	0.75 (19.1)	48 (3)	7,500 (518)	Stainless	Steel	Buna N/Steel	463-024-166
1/4-18 NPSF (F)	1/4-18 NPSF (F)	A	2.41 (61.1)	—	0.75 (19.1)	48 (3)	7,500 (518)	Stainless	Steel	Viton/Steel	463-024-173
1/8-27 NPSF (F)	1/8-27 NPSF (F)	A	2.41 (61.1)	—	0.56 (14.3)	48 (3)	7,500 (518)	Stainless	S.S./Steel	Viton/Steel	463-024-174

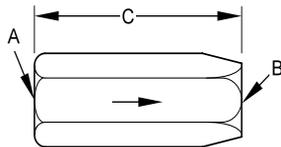


Fig. A

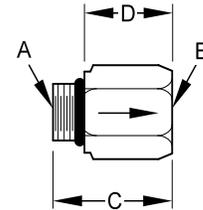


Fig. B

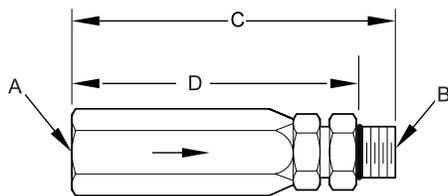
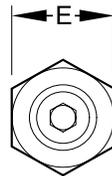


Fig. C

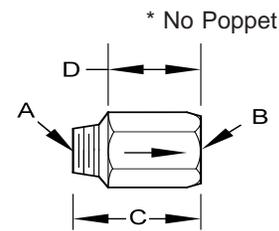
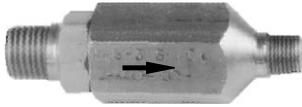


Fig. D

## TWIN TANDEM CHECK VALVE

Twin Tandem Check Valves are designed for hydraulic or lubrication systems with pressures up to 10,000 PSI. The Twin Tandem Check Valve incorporates both a garter type check valve and a standard ball and spring type check valve. The garter check valve has a soft seat elastic garter band that permits uninterrupted flow and seals unwanted back flow.



### Features

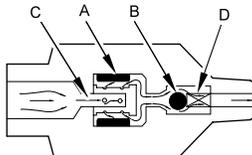
- Positive seal prevents leakage and back flow
- Compact and easy to install

### Specifications

Material ..... All Stainless Steel  
 Viton Elastic Band ..... Suitable for most fluids  
 Maximum Operating Pressure ..... 10,000 PSI (690 bar)  
 Maximum Operating Temperature ..... 400 °F (204.5 °C)  
 Cracking Pressure ..... 45 ±10 PSI (3 ± 0.7 bar)  
 Lubricant (Mineral Based and Synthetic) ..... Oil and Grease Compatible with Viton  
 Net Weight (approx.) ..... 5 oz. (142g)

### Operation

The Twin Tandem Check Valve is installed in a system with the arrow on the check valve towards the direction of flow. Under normal flow conditions, the soft seat Viton elastic garter band (A) is raised off the valve stem uncovering the flow holes and allowing flow through the valve stem (C). The lubricant flow pushes ball (B) from the valve seat compressing spring (D), and travels into the system. In case of back flow, the ball check (B) is blocking the flow, any leakage compresses the garter band (A) over the flow holes in the valve stem and forms a positive seal.



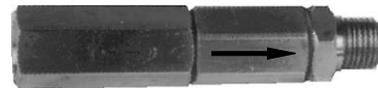
### Twin Tandem Check Valve Dimensions and Ordering Information

Pipe Size		Part Number
A Inlet	B Outlet	
1/4 NPTF (M)	1/8 NPTF (M)	509-356-060
1/4 NPTF (M)	1/4 NPTF (M)	509-356-100

## BRASS DOUBLE BALL CHECK VALVES

Brass Double Ball Check Valves are for use in hydraulic or lubrication systems with pressures up to 3,000 PSI. These check valves are typically used as inlet check valves. Two of the conventional spring & ball type checks are combined to provide maximum protection against system back flow/leakage. Flow direction is indicated by an arrow stamped on the check valve body.



### Features

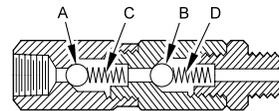
- Positive seal prevents leakage and back flow
- Compact and easy to install

### Specifications

Material ..... All Brass with Stainless Steel Spring  
 Maximum Operating Pressure ..... 3,000 PSI (207 bar)  
 Maximum Operating Temperature ..... 500 °F (260 °C)  
 Cracking Pressure ..... 35 ±10 PSI (2 ± 0.7 bar)  
 Lubricant (Mineral Based and Synthetic) ..... Oil and Grease  
 Net Weight (approx.) ..... 6 oz. (171g)

### Operation

The check valve is installed with the arrow on the check valve towards the direction of flow. Incoming flow of lubricant moves check balls (A) and then (B), compressing springs (C) & (D). This allows lubricant to flow through the check valve and out to the lube points. When flow ceases, springs (C) & (D) reseat the check balls, preventing back flow to the system.



### Brass Double Ball Check Valve Dimensions and Ordering Information

A (Inlet)	B (Outlet)	Part Number
1/4 NPT (FM)	1/4 NPT (M)	463-021-571
1/8 NPT (FM)	1/8 NPT (M)	463-021-611
1/4" O.D. Tube	1/4 NPT (M)	463-021-701

### BI-FLOW OUTLET CHECK VALVE

The Bi-Flow Outlet Check Valve is a conventional metal ball, hard seat type check valve. It is capable of using a special fitting in the outlet to accept either 3/16" or 1/4" tube.

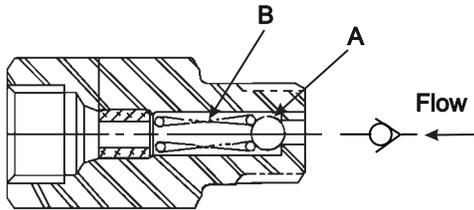


#### Specifications

Material ..... Steel  
 Maximum Pressure ..... 5,000 PSI (345 bar)  
 Cracking Pressure ..... 35 ±10 PSI (2 ± 0.7 bar)  
 Lubricant (Mineral Based and Synthetic) ..... Oil and Grease  
 Net Weight ..... 4 oz. (113g)

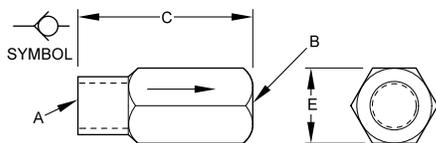
#### Operation

The check valve is installed with the arrow on the check valve in the direction of flow. Incoming flow pushes ball (A) from the valve seat, compressing spring (B), permitting lubricant to flow through the check valve to the lube points. When flow stops, spring (B) expands, reseating ball (A), creating a positive seal.



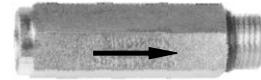
#### Bi-Flow Outlet Check Valve Dimensions and Ordering Information

Pipe Size		C	E	Part Number
Inlet "A"	Outlet "B"			
1/8-27 (M)	1/8-27 (FM)	1.500 (38.1)	0.500 (12.7)	463-001-546
1/4-18 (M)	1/4-18 (FM)	1.593 (40.5)	0.687 (17.4)	463-001-550



### CHECK VALVE WITH 90 MICRON FILTER

This check valve is a conventional metal ball, hard seat type with an integral 90 micron filter. It is designed to be used before a "zero-leak" solenoid inlet base. However, it can be used anywhere that a check valve and a filter would be used in series.



#### Features

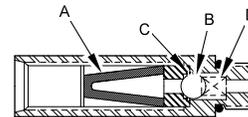
- One check/filter combination valve replaces two separate devices resulting in fewer leak paths.
- Protects downstream components from contamination.
- Compact and easy to install.

#### Specifications

Body Material ..... Steel  
 Filter Material ..... (90 Micron) Sintered Bronze  
 Maximum Pressure ..... 7,500 PSI (518 bar)  
 Cracking Pressure ..... 35 ±10 PSI (2 ± 0.7 bar)  
 Lubricant (Mineral Based and Synthetic) ..... Oil only  
 Net Weight (Approx.) ..... 3 oz. (85g)

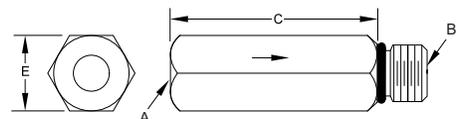
#### Operation

The check valve is installed with the arrow on the check valve in the direction of flow. The oil first passes through the filter element (A). Then flow pushes the ball (B) from the valve seat (C), compressing the spring (D) and permitting oil to flow through the check valve. When flow stops, the spring (D) expands, reseating the ball (B) and creating a positive seal.



#### Check Valve with Filter Dimensions and Ordering Information

SAE Thread Size		C	E	Part Number
Inlet "A"	Outlet "B"			
9/16-18 (FM)	9/16-18 (M)	2.50	0.687	463-001-604
7/16-20 (FM)	7/16-20 (M)	1.89	0.562	463-001-605





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