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LUBRIQUIP®
Centralized Lubrication Systems

Trabon®

Check Valves
Product Specs and Ordering

Bulletin 15825

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

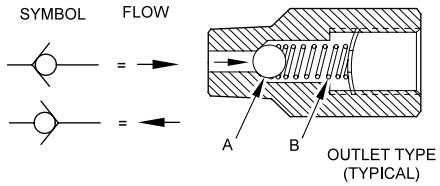
- Positive seal prevents leakage and backflow
- Compact and easy to install

Specifications

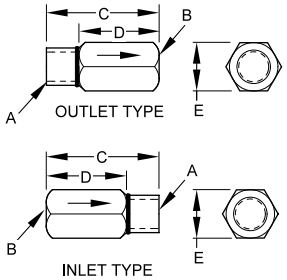
Material ..... All Steel (Stainless Steel Body in SAE Sizes)
Maximum Operating Pressure ..... 5,000 PSI (34,475 kPa)
Maximum Operating Temperature ..... 500 °F (260 °C)
Cracking Pressure ..... See Dimension Section Following
Lubricant (Mineral Based and Synthetic) ..... Oil and Grease
Net Weight (approx.) ..... 1 oz. (28g)

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.



Single Ball Check Valve Dimensions and Ordering Information



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

Pipe Thread Check Valves

Nominal Cracking Pressure	Inlet	Outlet	Pipe Size A NPTF	Pipe Size B NPSF	C	D	E	Part Number
10	Male	Female	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-350-010
15	Female	Male	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-355-010
35	Male	Female	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-350-030
35	Female	Male	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-355-030
60	Female	Male	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-355-060
100	Male	Female	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-350-100
125	Male	Female	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-350-120
250	Male	Female	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-350-250
250	Female	Male	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	509-355-250
360	Male	Female	1/8	1/8	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	463-001-582
8-15	Male	Female	1/4	1/4	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	509-360-010
10	Female	Male	1/4	1/4	1.75 (44.5)	0.68 (17.4)	0.68 (17.4)	509-365-010
35	Male	Female	1/4	1/4	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	509-360-030
35	Female	Male	1/4	1/4	1.75 (44.5)	0.68 (17.4)	0.68 (17.4)	509-365-030
35	Male	Female	1/4	1/4	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	509-360-035
80	Female	Male	1/4	1/4	1.75 (44.5)	0.68 (17.4)	0.68 (17.4)	509-365-080
100	Male	Female	1/4	1/4	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	509-360-100
250	Male	Female	1/4	1/4	1.62 (41.2)	0.68 (17.4)	0.68 (17.4)	509-360-250
125	Female	Male	1/4	1/4	1.75 (44.5)	0.68 (17.4)	0.68 (17.4)	509-365-125

Straight Thread Check Valves

Nominal Cracking Pressure	Inlet	Outlet	Tube Size A SAE	Tube Size B SAE	C	D	E	Part Number
20-50	Male	Female	7/16-20	7/16-20	1.56 (39.6)	1.20 (30.5)	0.62 (15.7)	463-001-589
20-50	Male	Female	9/16-18	9/16-18	1.68 (42.7)	1.30 (33.0)	0.75 (19.0)	463-001-590
25-50	Female	Male	9/16-18	9/16-18	1.75 (44.5)	1.36 (34.5)	0.81 (20.6)	463-001-600
25-50	Female	Male	7/16-20	7/16-20	1.44 (36.6)	1.08 (27.4)	0.69 (17.4)	463-001-601

IDEX CORPORATION

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

Material
Body ..... Carbon Steel/Stainless Steel
Balls and Springs ..... Stainless Steel

Maximum Operating Pressure ..... 6,000 to 8,000 PSI (41,370 to 55,160 kPa)

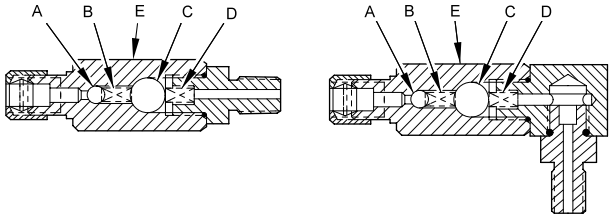
Maximum Operating Temperature ..... 400 °F (204.5 °C)

Cracking Pressure ..... 90 ±10 PSI (620 ±70 kPa)

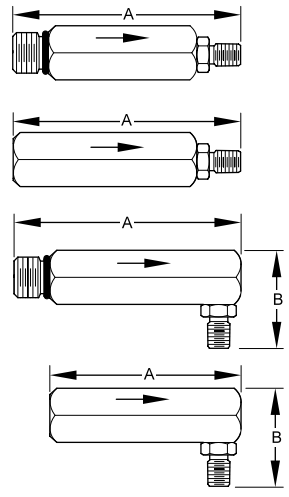
Lubricant (Mineral Based and Synthetic) ..... Oil and Grease

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 reseated. 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



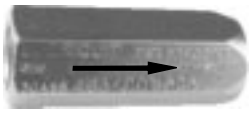
NOTE: ALL ARE 0.75 (19.0) HEX STOCK

Configuration	Inlet	Outlet	A	B	Part Number
Straight	1/4" OD Tube	1/8-27 NPTF (M)	4.25 (107.9)	N/A	038089
Straight	1/4" OD Tube	1/4-18 NPTF (M)	4.50 (114.3)	N/A	038118
Straight	1/4" OD Tube	1/8-27 NPTF (M)	3.00 (76.2)	N/A	070200
Straight	1/4" OD Tube	1/4-18 NPTF (M)	3.19 (81.0)	N/A	070201
Straight	1/4-18 NPTF (F)	1/8-27 NPTF (M)	3.19 (81.0)	N/A	070204
Straight	1/4-18 NPTF (F)	1/4-18 NPTF (M)	3.21 (81.5)	N/A	070205
Straight	1/8-27 NPTF (F)	1/8-27 NPTF (M)	3.19 (81.0)	N/A	070206
Straight	1/8-27 NPTF (F)	1/4-18 NPTF (M)	3.19 (81.0)	N/A	070207
Straight	1/4-18 NPTF (F)	1/4-18 NPTF (M)	3.19 (81.0)	N/A	070252
Straight	1/8-27 NPTF (F)	1/8-27 NPTF (M)	3.19 (81.0)	N/A	070253
Straight	1/8-27 NPTF (F)	1/4-18 NPTF (M)	3.19 (81.0)	N/A	070254
Straight	1/4-18 NPTF (F)	1/8-27 NPTF (M)	2.75 (69.9)	N/A	070255
Angle	1/4" OD Tube	1/8-27 NPTF (M)	4.19 (106.4)	1.59 (40.1)	039366
Angle	1/4" OD Tube	1/4-18 NPTF (M)	4.19 (106.4)	1.59 (40.1)	039367
Angle	1/4" OD Tube	1/4-18 NPTF (M)	2.50 (63.5)	1.53 (38.9)	040233
Angle	1/4" OD Tube	1/8-27 NPTF (M)	3.00 (76.2)	1.60 (40.6)	070202
Angle	1/8-27 NPTF (F)	1/8-27 NPTF (M)	3.00 (76.2)	1.78 (45.2)	070210
Angle	1/8-27 NPTF (F)	1/4-18 NPTF (M)	3.00 (76.2)	1.78 (45.2)	070211
Angle	1/8-27 NPTF (F)	1/4-18 NPTF (M)	2.75 (69.9)	1.78 (45.2)	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
- Body ..... Carbon Steel/Stainless Steel
- Poppet (except 463-001-616) ..... Steel
- Ball (Large, soft seat) ..... See Dimension Section Following
- Ball (Small) ..... Steel
- Spring ..... Steel/Stainless Steel

Maximum Operating Pressure ..... 100 to 7,500 PSI (690 to 51,712 kPa)

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

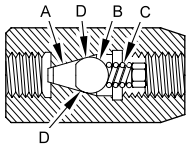
Cracking Pressure ..... (See Dimensions)

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

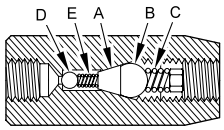
Net Weight ..... Single Ball 4 oz. (113g)
Double Ball 5 oz. (142g)

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

Nominal Cracking Pressure	Ball	Ball Material	Inlet	Outlet	Figure Inlet	A Outlet	B	C	D	E	Part Number
20-50	Single	Viton	Male	Female	B	7/16-20 SAE	7/16-20 SAE	—	1.202 (30.5)	0.625 (15.9)	463-001-585
35-60	Single	Viton	Male	Female	B	9/16-18 SAE	9/16-18 SAE	—	1.296 (32.9)	0.750 (19.1)	463-001-587
20-30	Single	Viton	Male	Female	D	1/8-27 NPTF	1/8-27 NPSF	1.312 (33.6)	—	0.562 (14.3)	463-001-583
35-60	Single	Viton	Male	Female	D	1/8" NPTF	1/4" NPSF	1.562 (39.7)	—	0.687 (17.4)	463-001-580
20-30	Single	Viton	Female	Female	A	7/16-20 SAE	7/16-20 SAE	1.937 (49.2)	N/A	0.625 (15.9)	463-001-584
20-30	Single	Viton	Female	Male	C	7/16-20 SAE	7/16-20 SAE	2.781 (70.6)	1.937 (49.2)	0.625 (15.9)	463-001-593
100	Single	Viton	Male	Female	B	9/16-18 SAE	9/16-18 SAE	1.687 (42.8)	—	0.750 (19.1)	463-001-595
35-50	Single	Buna N	Female	Female	A	1/4-18 NPSF	1/4-18 NPSF	1.937 (49.2)	N/A	0.750 (19.1)	463-001-525
35-60	Single	Viton	Female	Female	A	1/4-18 NPSF	1/4-18 NPSF	1.937 (49.2)	N/A	0.750 (19.1)	463-001-524
35-60	Double	Viton	Female	Female	A	1/8-27 NPSF	1/8-27 NPSF	2.406 (61.1)	N/A	0.562 (14.3)	463-024-174
35-60	Double	Viton	Female	Female	A	1/4-18 NPSF	1/4-18 NPSF	2.406 (61.1)	N/A	0.750 (19.1)	463-024-173
35-60	Double	Buna N	Female	Female	A	1/4-18 NPSF	1/4-18 NPSF	2.406 (61.1)	N/A	0.750 (19.1)	463-024-166
35-50	Double	Viton	Female	Female	A	1/4-18 NPSF	1/4-18 NPSF	2.406 (61.1)	N/A	0.750 (19.1)	463-024-165
35	Single	Viton	Female	Male	C	1/8 NPSF	1/8 NPTF	1.313 (33.3)	—	0.563 (14.3)	463-001-535
35	Single	Viton	Male	Female	D	1/8 NPTF	1/8 NPSF	1.281 (32.5)	—	0.563 (14.3)	463-001-536
35	Single	Viton	Female	Male	C	1/4-18 NPSF	1/4-18 NPTF	1.750 (___)	—	0.687 (17.4)	463-001-616*

* No Poppet

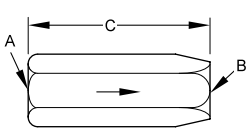


Fig. A

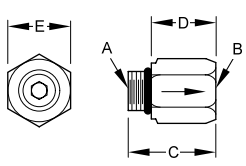


Fig. B

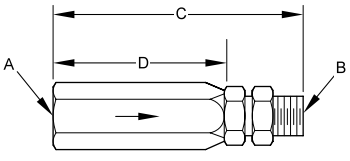


Fig. C

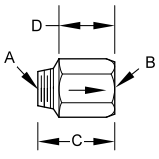
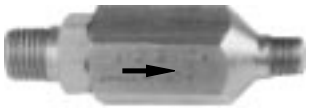


Fig. D

LUBRIQUIP® Centralized Lubrication Systems

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

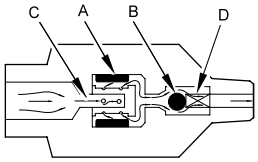
- Positive seal prevents leakage and back flow
- Compact and easy to install

Specifications

Material ..... All Stainless Steel
Viton Elastic Band ..... Suitable for most fluids
Maximum Operating Pressure ..... 10,000 PSI (68,950 kPa)
Maximum Operating Temperature ..... 400 °F (204.5 °C)
Cracking Pressure ..... 45 ±10 PSI (310 ±69 kPa)
Lubricant (Mineral Based and Synthetic) ..... Oil and Grease Compatible with Viton
Net Weight (approx.) ..... 5 oz. (142g)

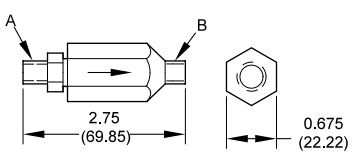
Operation

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
A (NPTF) M	B (NPTF) M	Number
1/4	1/8	509-356-060
1/4	1/4	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

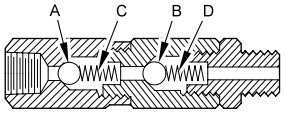
- Positive seal prevents leakage and back flow
- Compact and easy to install

Specifications

Material ..... All Brass with Stainless Steel Spring
Maximum Operating Pressure ..... 3,000 PSI (20,685 kPa)
Maximum Operating Temperature ..... 500 °F (260 °C)
Cracking Pressure ..... 35 ±10 PSI (241 ±69 kPa)
Lubricant (Mineral Based and Synthetic) ..... Oil and Grease
Net Weight (approx.) ..... 6 oz. (171g)

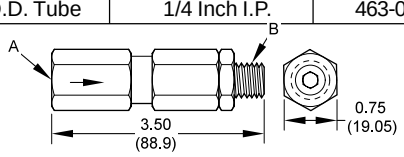
Operation

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.



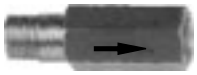
Brass Double Ball Check Valve Dimensions and Ordering Information

A	B	Part Number
1/4 Inch I.P.	1/4 Inch I.P.	463-021-571
1/8 Inch I.P.	1/8 Inch I.P.	463-021-611
1/4 Inch O.D. Tube	1/4 Inch I.P.	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.

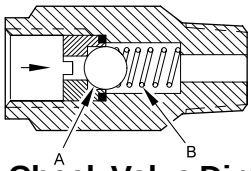


Specifications

Material ..... Steel
Maximum Pressure ..... 5,000 PSI (34,475 kPa)
Cracking Pressure ..... 35 ±10 PSI (242 ±67 kPa)
Lubricant (Mineral Based and Synthetic) ..... Oil and Grease
Net Weight ..... 4 oz. (113g)

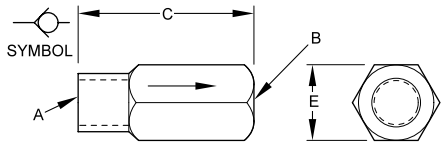
Operation

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.



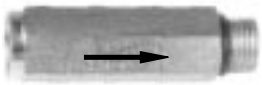
Bi-Flow Outlet Check Valve Dimensions and Ordering Information

Pipe Size		C	E	Part Number
A (NPTF) M	B (NPSF) F			
1/8-27	1/8-27	1.500 (38.1)	0.500 (12.7)	463-001-546
1/8-27	1/8-27	1.500 (38.1)	0.500 (12.7)	463-001-548
1/4-18	1/4-18	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

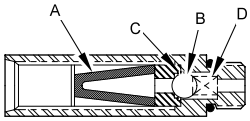
- One check/filter combination valve replaces two separate devices resulting in fewer leak paths.
- Protects downstream components from contamination.
- Compact and easy to install.

Specifications

Body Material ..... Steel
Filter Material ..... Sintered Bronze
Maximum Pressure ..... 7,500 PSI (51,713 kPa)
Cracking Pressure ..... 35 ±10 PSI (242 ±67 kPa)
Lubricant (Mineral Based and Synthetic) ..... Oil only
Net Weight (Approx.) ..... 3 oz. (85g)

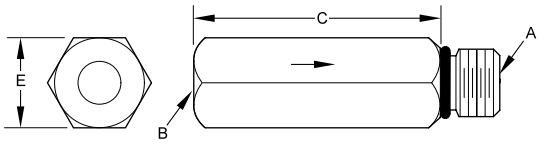
Operation

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.



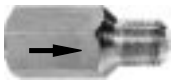
Check Valve with Filter Dimensions and Ordering Information

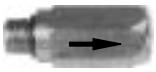
SAE		C	E	Part Number
A Male	B Female			
9/16-18	9/16-18	2.50	0.687	463-001-604
7/16-20	7/16-20	1.89	0.562	463-001-605



LUBRIQUIP® Centralized Lubrication Systems

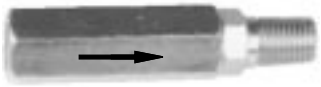
LUBRIQUIP CHECK VALVES





Straight Single Ball Check Valves

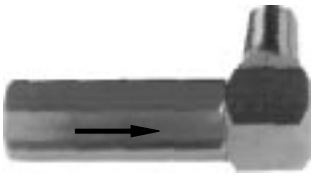
Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	360	5,000	Steel	Steel	Steel	463-001-582
Hard	7/16-20 SAE (M)	7/16-20 SAE (F)	20-50	3,500	Stainless	Steel	Steel	463-001-589
Hard	9/16-18 SAE (M)	9/16-18 SAE (F)	20-50	3,500	Stainless	Steel	Steel	463-001-590
Hard	9/16-18 SAE (F)	9/16-18 SAE (M)	25-50	5,000	Stainless	Steel	Steel	463-001-600
Hard	7/16-20 SAE (F)	7/16-20 SAE (M)	25-50	5,000	Stainless	Steel	Steel	463-001-601
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	10	5,000	Steel	Steel	Steel	509-350-010
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	35	5,000	Steel	Steel	Steel	509-350-030
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	100	5,000	Steel	Steel	Steel	509-350-100
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	125	5,000	Steel	Steel	Steel	509-350-120
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	250	5,000	Steel	Steel	Steel	509-350-250
Hard	1/8-27 NPSF (F)	1/8-27 NPTF (M)	15	5,000	Steel	Steel	Steel	509-355-010
Hard	1/8-27 NPSF (F)	1/8-27 NPTF (M)	35	5,000	Steel	Steel	Steel	509-355-030
Hard	1/8-27 NPSF (F)	1/8-27 NPTF (M)	60	5,000	Steel	Steel	Steel	509-355-060
Hard	1/8-27 NPSF (F)	1/8-27 NPTF (M)	250	5,000	Steel	Steel	Steel	509-355-250
Hard	1/4-18 NPTF (M)	1/4-18 NPSF (F)	8-15	5,000	Steel	Steel	Steel	509-360-010
Hard	1/4-18 NPTF (M)	1/4-18 NPSF (F)	35	5,000	Steel	Steel	Steel	509-360-030
Hard	1/4-18 NPTF	1/4-18 NPSF	35	5,000	Steel	Steel	Steel	509-360-035
Hard	1/4-18 NPTF (M)	1/4-18 NPSF (F)	100	5,000	Steel	Steel	Steel	509-360-100
Hard	1/4-18 NPTF (M)	1/4-18 NPSF (F)	250	5,000	Steel	Steel	Steel	509-360-250
Hard	1/4-18 NPSF (F)	1/4-18 NPTF (M)	10	5,000	Steel	Steel	Steel	509-365-010
Hard	1/4-18 NPSF (F)	1/4-18 NPTF (M)	35	5,000	Steel	Steel	Steel	509-365-030
Hard	1/4-18 NPSF (F)	1/4-18 NPTF (M)	80	5,000	Steel	Steel	Steel	509-365-080
Hard	1/4-18 NPSF (F)	1/4-18 NPTF (M)	125	5,000	Steel	Steel	Steel	509-365-125



Straight Double Ball Check Valves

Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Hard	1/4" OD Tube	1/8-27 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	038089
Hard	1/4" OD Tube	1/4-18 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	038118
Hard	1/4" OD Tube	1/8-27 NPTF (M)	90	6,000	Steel	Stainless	Stainless	070200
Hard	1/4" OD Tube	1/4-18 NPTF (M)	90	6,000	Steel	Stainless	Stainless	070201
Hard	1/4-18 NPTF (F)	1/8-27 NPTF (M)	90	8,000	Steel	Stainless	Stainless	070204
Hard	1/4-18 NPTF (F)	1/4-18 NPTF (M)	90	8,000	Steel	Stainless	Stainless	070205
Hard	1/8-27 NPTF (F)	1/8-27 NPTF (M)	90	8,000	Steel	Stainless	Stainless	070206
Hard	1/8-27 NPTF (F)	1/4-18 NPTF (M)	90	8,000	Steel	Stainless	Stainless	070207
Hard	1/4-18 NPTF (F)	1/4-18 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	070252
Hard	1/8-27 NPTF (F)	1/8-27 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	070253
Hard	1/8-27 NPTF (F)	1/4-18 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	070254
Hard	1/4-18 NPTF (F)	1/8-27 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	070255

LUBRIQUIP CHECK VALVES (Continued)

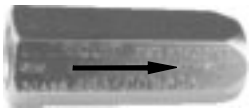


Angle Double Ball Check Valves

Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Hard	1/4" OD Tube	1/8-27 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	039366
Hard	1/4" OD Tube	1/4-18 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	039367
Hard	1/4" OD Tube	1/8-27 NPTF (M)	90	6,000	Steel	Stainless	Stainless	070202
Hard	1/8-27 NPTF (F)	1/8-27 NPTF (M)	90	8,000	Steel	Stainless	Stainless	070210
Hard	1/8-27 NPTF (F)	1/4-18 NPTF (M)	90	8,000	Steel	Stainless	Stainless	070211
Hard	1/8-27 NPTF (F)	1/4-18 NPTF (M)	90	8,000	Stainless	Stainless	Stainless	070274

Soft Seat Single Ball Check Valves

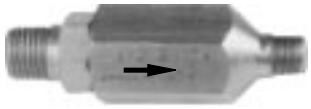
Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Soft	1/4-18 NPSF (F)	1/4-18 NPSF (F)	35-60	7,500	Stainless	Viton	Steel	463-001-524
Soft	1/4-18 NPSF (F)	1/4-18 NPSF (F)	35-50	7,500	Stainless	Buna N	Steel	463-001-525
Soft	1/8-27 NPSF (F)	1/8-27 NPTF (M)	35	100	Steel	Viton	Steel	463-001-535
Soft	1/8-27 NPTF (M)	1/8-27 NPSF (F)	35	100	Steel	Viton	Steel	463-001-536
Soft	1/8-27 NPTF (M)	1/4-18 NPSF (F)	35-60	7,500	Stainless	Viton	Steel	463-001-580
Soft	1/8-27 NPTF (M)	1/8-27 NPSF (F)	20-30	7,500	Stainless	Viton	Stainless	463-001-583
Soft	7/16-20 SAE (F)	7/16-20 SAE (F)	20-30	7,500	Stainless	Viton	Steel	463-001-584
Soft	7/16-20 SAE (M)	7/16-20 SAE (F)	20-50	7,500	Stainless	Viton	Steel	463-001-585
Soft	9/16-18 SAE (M)	9/16-18 SAE (F)	35-60	7,500	Stainless	Viton	Steel	463-001-587
Soft	7/16-20 SAE (F)	7/16-20 SAE (M)	20-30	7,500	Stainless	Viton	Steel	463-001-593
Soft	9/16-18 SAE (M)	9/16-18 SAE (F)	100	7,500	Stainless	Viton	Steel	463-001-595
Soft	1/4-18 NPSF (F)	1/4-18 PTF (M)	35	100	Steel	Viton	Steel	463-001-616



Soft Seat Double Ball Check Valves

Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Soft	1/4-18 NPSF (F)	1/4-18 NPSF (F)	35-60	7,500	Steel	Viton/Steel	Steel	463-024-165
Soft	1/4-18 NPSF (F)	1/4-18 NPSF (F)	35-60	7,500	Stainless	Buna N/Steel	Steel	463-024-166
Soft	1/4-18 NPSF (F)	1/4-18 NPSF (F)	35-60	7,500	Stainless	Viton/Steel	Steel	463-024-173
Soft	1/8-27 NPSF (F)	1/8-27 NPSF (F)	35-60	7,500	Stainless	Viton/Steel	S.S./Steel	463-024-174

LUBRIQUIP CHECK VALVES (Continued)

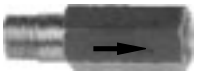


Twin Tandem Check Valves (Garter and Ball)

Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Hard	1/4-18 NPTF (M)	1/8-27 NPTF (M)	35-55	10,000	Stainless	Stainless	Stainless	509-356-060
Hard	1/4-18 NPTF (M)	1/4-18 NPTF (M)	35-55	10,000	Stainless	Stainless	Stainless	509-356-100

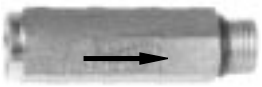
Brass Double Ball Check Valves

Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Hard	1/4 I.P. (F)	1/4 I.P. (M)	25-45	3,000	Brass	Brass	Stainless	463-021-571
Hard	1/8 I.P. (F)	1/8 I.P. (M)	25-45	3,000	Brass	Brass	Stainless	463-021-611
Hard	1/4" O.D. Tube	1/4 I.P. (M)	25-45	3,000	Brass	Brass	Stainless	463-021-701



Bi-Flow Outlet Check Valve

Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	35	5,000	Steel	Stainless	Steel	463-001-546
Hard	1/8-27 NPTF (M)	1/8-27 NPSF (F)	35	5,000	Steel	Steel	Steel	463-001-548
Hard	1/4-18 NPTF (M)	1/4-18 NPSF (F)	35	5,000	Steel	Stainless	Steel	463-001-550



Check Valve with Filter

Seat Type	Inlet Size	Outlet Size	Cracking Pressure (PSI)	Operating Pressure (PSI)	Material			Part Number
					Body	Ball	Spring	
Hard	9/16-18 SAE (F)	9/16-18 SAE (M)	35-60	7,500	Steel	Steel	Steel	463-001-604
Hard	7/16-20 SAE (F)	7/16-20 SAE (M)	35-60	7,500	Steel	Steel	Steel	463-001-605

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Lubriquip endorses the SAE recommendation of ISO 18/14 (ISO 4406) oil cleanliness for most bearing applications. Some high speed bearings may require cleaner oil. Consult the bearing manufacturer for recommendation.

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