

Aeroquip® Brand Check Valves

Eaton's Aeroquip brand check valves are superior in attaining ultra low pressure drops, which conserves energy and ultimately saves operational costs over the life of the program. The check valves are currently utilized on high pressure system aircraft like the Airbus A380 and Lockheed Martin F-35. The check valves were selected for their performance [weight, envelope, pressure drop, and reliability]. Eaton used the latest software techniques to optimize flow path through the valve to limit eddies and minimize acceleration of the fluid which effectively reduces energy loss. The exclusion of polymers allows for a greater range of temperatures and fluids that this check valve can operate under. The hardened interior poppet valve gives the check valve greater strength and durability to have a long life.

- Average Pressure Drop is 83% less for Redoil and 97% less for Phosphate-Ester Base Fluids compared to Max Pressure Drop (15 psid) at Rated Flow requirements*
- Operating pressure: up to 5000 psig
- Temperature Range: -65°F to 450°F



Key Features:

- Spring outside of fluid flow path
- Metal to metal seals
- Exclusion of polymers
- Constant Flow Area
- Hardened poppet valve

Ultimate Result:

- Smooth flow
- Minimal Leakage
- Withstands greater range of temps
- Ultra Low Pressure Drops
- Long Life

Key Features of the Aeroquip brand Check Valves

Guaranteed Weights Based on Male Flareless (AS33514) to Female Flareless

Dash Size	Low Pressure (<1000 psi) (lbs)	High Pressure (<5000 psi) (lbs)
-4	0.060	0.062
-6	0.095	0.102
-8	0.198	0.096
-10	0.246	0.211
-12	0.479	0.253
-16	0.606	0.630
-20	1.100	1.195

*Meets the performance requirements of MIL-PRF-25675C & ARP 4946



Powering Business Worldwide

Eaton
Aerospace Group
Conveyance Systems Division
300 South East Avenue
Jackson, Michigan 49203-1972
Phone: (517) 787 8121
Fax: (517) 789 2947

Eaton
Aerospace Group
Conveyance Systems Division
90 Clary Connector
Eastanollee, Georgia 30538
Phone: (706) 779 3351
Fax: (706) 779 2638

Eaton
Aerospace Group
Conveyance Systems Division
9650 Jeronimo Road
Irvine, California 92618
Phone: (949) 452 9500
Fax: (949) 452 9992

Eaton
Aerospace Group
Conveyance Systems Division
11642 Old Baltimore Pike
Beltsville, Maryland 20705
Phone: (301) 937 4010
Fax: (301) 937 0134

Eaton
Aerospace Group
Conveyance Systems Division
15 Pioneer Ave.
Warwick, Rhode Island 02888
Phone: (401) 781 4700
Fax: (401) 785 4614

Eaton S. A.
Aerospace Group
Conveyance Systems Division
2 Rue Lavoisier BP 54 78310
Coignieres, France
Phone: (33) 130 69 30 00
Fax: (33) 130 69 30 56

Eaton Limited
Aerospace Group
Conveyance Systems Division
Broad Ground Road
Lakeside, Redditch
Worcestershire
B98 8YS
United Kingdom
Phone: (44) 1527 517555
Fax: (44) 1527 517556

Eaton S.A
Aerospace Group
Conveyance Systems Division
62 Chemin De Pau
64121 Serres-Castet
France
Phone: (33) 559 333 864
Fax: (33) 559 333 865

Eaton Germany GmbH
Aerospace Group
Conveyance Systems Division
Rudolf-Diesel-Str. 8
82205 Gilching
Germany
Phone: (49) 8105 75 0
Fax: (49) 8105 75 55

Vickers Systems Pte Ltd
Aerospace Group
Conveyance Systems Division
Lot 512, Jalan Delima,
Batamindo Industrial Park
Batam 294533, Indonesia
Phone: (62) 770 611823
Fax: (62) 770 611821



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Eaton
Aerospace Group
9650 Jeronimo Road
Irvine, California 92618
Phone: (949) 452 9500
Fax: (949) 452 9555
www.eaton.com/aerospace

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