



# Solenoid Valves Magnetic Level Switches



3000 MODELS  
FOR ALL TYPES OF FLUIDS



ENGINEERING FOR INDUSTRIAL AUTOMATION

ISO 9001  
Certified

# General Purpose Valves

Water, air, steam, gasoline, gasoil, other gases and light oils up to 180°C. Vacuum and cryogenic fluids such as liquid nitrogen (- 200°C). Bodies in brass, bronze, stainless steel, flanged or screwed.



**Jefferson 2036** Ø 1"  
Body: Forged brass.  
Seal Material: Buna "N" Diaphragm.  
Pressure: 0.3 to 15 bar.  
Temperature: Up to 80°C.  
Connection: Ø 1".  
Coil: 6 Watts - DIN Connector.



**Jefferson 1327**  
N. Closed and N. Open.  
Body: Bronze, cast iron, stainless steel.  
Seat: Elastomer or Teflon.  
Pressure: 0 to 100 bar.  
Temperature: From -200°C to 180°C.  
Connection: 1/4".



**Jefferson 1390**  
N. Closed or N. Open.  
Body: Brass, stainless steel.  
Seats: Elastomer or Teflon.  
Pressure: 0.1 to 15 bar.  
Temperature: -200°C to 180°C.  
Connections: 1/4", 3/8", 1/2".



**Jefferson 1335**  
N. Closed or N. Open.  
Body: Brass, stainless steel.  
Seal Material: Diaphragm according to fluid.  
Pressure: Vacuum up to 10 bar.  
Temperature: Up to 150°C.  
Connections: 3/8", 1/2", 3/4".



**Jefferson 1314**  
Body: Bronze, stainless steel.  
Seat: Elastomer or Teflon.  
Pressure: Vacuum to 15 bar.  
Temperature: Up to 180°C.  
Connections: 3/4" to 2".



**Jefferson 1342**  
N. Closed and N. Open.  
Body: Brass, stainless steel.  
Seat: Elastomer or Teflon.  
Pressure: 0.2 to 15 bar.  
Temperature: Up to 180°C.  
Connections: 3/4" to 3".



**Jefferson 1373**  
Especially used in dust-collectors.  
Body: Aluminum.  
Pressure: 0.5 to 10 bar.  
Temperature: Up to 80°C.  
Connections: 3/4" to 1,1/2".



**Jefferson 2026**  
Body: Forged brass.  
Seat: Elastomer.  
Pressure: 0 to 50 bar.  
Temperature: Up to 80°C.  
Coil: 6 Watts - DIN Connector.  
Connection: 1/4".



**Jefferson 2036**  
Body: Forged brass.  
Seal: Buna "N" diaphragm.  
Pressure: 0.1 to 15 bar.  
Temperature: Up to 80°C.  
Connections: 3/8" to 3/4".  
Coil: 6 Watts - DIN Connector.



**Jefferson 1393**  
N. Closed or N. Open.  
Body: Forged brass.  
Seats: Stainless steel guillotine and Teflon.  
Pressure: 0 to 4 bar.  
Temperature: Up to 180 °C.  
Connections: 1/4", 3/8", 1/2".

## APPROVALS:



**Underwriters Laboratories Inc.®**

FILE MH 16855 Vol. 2 SECT. 2



**Association canadienne de normalisation**

FILE LR 87427 2M

# Valves for Refrigeration

Ammonia, fluorinated refrigerants, ecological refrigerants: HFC-134A-404A-507.  
For liquid lines, vapor suction, hot gas. Flare connections, for soldering, welding flanges.



**Jefferson 2041**  
Ecological and fluorinated refrigerants.  
Design: Compact.  
Body: Forged brass.  
Diaphragm: Teflon.  
Pressure: 0.07 to 21 Bar.  
Temperature: -40°C to 110°C.  
Connections: 3/8", 1/2" flare.



**Jefferson 2041S**  
Ecological and fluorinated refrigerants.  
Design: Compact.  
Body: Forged brass.  
Diaphragm: Teflon.  
Pressure: 0.07 to 21 Bar.  
Temperature: -40°C to 110°C.  
Connections: 3/8", 1/2", 5/8" copper tubes.



**Jefferson 1342R**  
N. Closed or N. Open.  
Body: Forged brass.  
Seat: Teflon.  
Pressure: 0.2 to 21 Bar.  
Temperature: -40°C to 110°C.  
Connections: 3/4" to 2".



**Jefferson 1343**  
Body: Iron / Flanges: Forged steel.  
Diaphragm: Teflon.  
Pressure: 0.07 to 21 Bar.  
Temperature: -40°C to 110°C.  
Connections: 1/2" to 1, 1/4".



**Jefferson 2054M**  
Back-pressure regulating valve.  
Bonnet: For multiple pilots.  
Body: Iron.  
Pressure: Up to 21 bar.  
Temperature: -60°C to 80°C.  
Connections: 3/4" to 4" flanged.



**Jefferson 2054L**  
Servo operated valve  
by external pressure source  
Body: Iron  
Pressure: 0 to 21 bar  
Temperature: -50°C to 110 °C  
Connections: 3/4" to 3" flanged



**Jefferson 1344**  
Body: Iron / Flanges: Forged steel.  
Seat: Teflon.  
Pressure: 0 to 17 Bar.  
Temperature: -40°C to 110°C.  
Connections: 3/4" to 2".



**Jefferson 1353**  
Constant Pressure Pilot:  
For back-pressure regulator.  
Body: Iron / Flanges: Forged steel.  
Regulating Pressure: - 0.6 to 7 Bar.  
Connections: 1/2".

## Strainers

For a safe and efficient performance of a solenoid valve it is indispensable that a strainer be fitted immediately up stream of the valve, even in those cases where a master strainer is already present in the system.



**Jefferson 1347**  
For Refrigeration.  
Body: Iron / Flanges: Steel.  
Mesh: 100 microns in stainless steel.  
Flanged Connection: 1/2", 3/4", 1".



**Jefferson 1359**  
For General Purpose.  
Body: Iron, bronze, stainless steel.  
Mesh: 100 microns in stainless steel.  
Connections: 1/2" to 2".

# Valves for Combustible Gases

Natural gas, butane, propane, LPG, others.  
They comply with national and international standards for the use of industrial gas for combustion systems.



**Jefferson 1330**  
N. Closed or N. Open.  
Body: Injected aluminum.  
Seat: Buna N.  
Pressure: 0 to 0.2 bar.  
Temperature: 80°C.  
Connections: 1/2" and 3/4".



**Jefferson 2030**  
Body: Injected aluminum.  
Seat: Buna N.  
Pressure: 0 to 0.05 bar.  
Temperature: Up to 80°C.  
Connections: 1" and 1,1/4".



**Jefferson 1330/2030**  
N. Closed or N. Open.  
Slow opening: Up to 10 sec.  
Body: Injected aluminum.  
Diaphragm: Buna N.  
Pressure: 0.001 to 2 bar.  
Temperature: Up to 80°C.  
Connections: 1" to 2".



**Jefferson 1332**  
"Free Handle".  
Body: Aluminum.  
Seat: Buna N.  
Pressure: 0 to 3 bar.  
Temperature: Up to 80°C.  
Connections: 1" to 3".



**Jefferson 2088**  
Slow opening: Up to 20 sec.  
with hydraulic regulation.  
Body: Injected aluminum.  
Seat: Buna N.  
Pressure: 0 to 3 bar.  
Temperature: Up to 80°C  
Connections: 1" to 2".



**Jefferson 1388A**  
Slow opening: Up to 20 sec.  
with hydraulic regulation.  
Body: Injected aluminum.  
Seat: Buna N.  
Pressure: 0 to 5 bar.  
Temperature: Up to 80°C.  
Connections: 3/4" to 3".

## Valves For Fuel-Oil

Specifically used in combustion systems with heavy hydrocarbons.  
Others uses: oils and other viscous fluids.



**Jefferson 1312**  
Body: Bronze, stainless steel.  
Seat: Stainless steel.  
Pressure: 0 to 21 bar.  
Temperature: Up to 180°C.  
Connections: 1/2", 3/4", 1".



**Jefferson 1356**  
Body: Bronze, stainless steel.  
Seat: Stainless steel.  
Pressure: 0 to 10 bar.  
Temperature: Up to 180°C.

## Valves For Corrosive Fluids

Exceptional resistance to acids, alkalis and other difficult corrosive fluids.  
Total absence of electrolytic or galvanic effect.



**Jefferson 1360**  
Body: Acrylic, Teflon.  
Diaphragm: Viton.  
Pressure: Up to 1 bar.  
Temperature: Up to 80°C.  
Connection: 1/4"



**Jefferson 1360**  
Body: PVC, Teflon.  
Seals and diaphragm: Viton.  
Pressure: 0 to 4 bar.  
Temperature: Up to 80°C.  
Connections: 3/8", 1/2"

# 3, 4 and 5 Way Valves

For water, air, gases and light oils. To operate single and double-acting cylinders.  
Other uses: to divert or converge two fluids.



**Jefferson 1323**  
3/2 Ways. Direct Acting.  
N. Closed, N. Open, Universal.  
Body: Brass, stainless steel.  
Seat: Buna N, Viton, etc.  
Pressure: 0 to 12 bar.  
Temperature: Up to 80°C.  
Connection: 1/4".



**Jefferson 1325**  
3/2 Ways, with internal pilot.  
N. Closed and N. Open.  
Body: Brass, stainless steel.  
Diaphragm: Buna N.  
Pressure: 0.5 to 10 bar.  
Temperature: Up to 80°C.  
Connections: 3/8", 1/2", 3/4".



**Jefferson 1351**  
3/2 Ways with internal and external pilot.  
N. Closed, N. Open, bistable.  
Body: Aluminum, brass.  
Seals: Buna N, Viton, others.  
Pressure: 0.5 to 10 bar.  
Temperature: Up to 80°C.  
Connections: 1/4", 3/8", 1/2".  
Special construction in stainless steel with a Teflon sleeve.



**Jefferson 1365**  
3/2 Ways, Direct acting.  
N. Closed, N. Open, Universal.  
Body: Brass, stainless steel.  
Seats: Buna N, Viton, others.  
Pressure: 0 to 15 bar.  
Connection: 1/4".



**Jefferson 1350**  
5/2 Ways, with internal and external pilot.  
Body: Brass, aluminum.  
Seals: Buna N, Viton, others.  
Pressure: 0.5 to 10 Bar.  
Temperature: Up to 80°C.  
Connections: 1/4", 3/8", 1/2".  
Special construction in stainless steel with a Teflon sleeve.



**Jefferson 2024**  
5/2 Ways, with internal pilot.  
Body: Brass.  
Seats and Seals: Buna N.  
Pressure: 0.8 to 10 Bar.  
Temperature: Up to 80°C.  
Connection: 1/4".



**Jefferson 1339**  
4/3 Ways, with internal pilot.  
3 positions, closed center.  
Body: Brass, stainless steel.  
Diaphragms: Buna N, Viton, others.  
Pressure: 0.5 to 10 bar.  
Temperature: Up to 80°C  
Connections: 1/4", 3/8", 1/2".

## Cylinder Operated Valves

Auxiliary fluid: air water, hydraulic oil, gases. Operated with an electrical pilot, pneumatically or manually. Pipe fluid: all types of fluids, corrosive or not. Large flows.



**Jefferson 1310**  
N. Closed or N. Open.  
Double acting cylinder.  
Body: Steel, bronze, stainless steel.  
Seats: Buna N, Teflon, stainless.  
Pressure: According to sizes up to 40 bar.  
Temperature: Up to 300°C.  
Connections: 3/4" to 10"



**Jefferson 1311**  
N. Closed or N. Open.  
Double acting cylinder.  
Body: Iron, stainless, others.  
Diaphragm: Nitrile, Viton, Teflon.  
Pressure: Up to 10 bar.  
Temperature: Up to 150°C.  
Connections: 3/4" to 8".



**Jefferson 1335/69**  
2 Ways.  
Body: Brass, stainless steel.  
Diaphragm: Buna N, Viton, others.  
Pressure: Up to 10 Bar.  
Temperature: Up to 150°C.



**Jefferson 1365/69**  
3/2 Ways.  
N. Closed, N. Open, Universal.  
Seats: Buna N, Viton, others.  
Pressure: Up to 10 bar.  
Temperature: Up to 150°C  
Connection: 1/4".

## Manual Reset Safety Valves

Free handle desing. Tripped by an electrical signal or by cutting off the electrical signal. This actuator is applicable to the majority of 2 or more ways valves described.