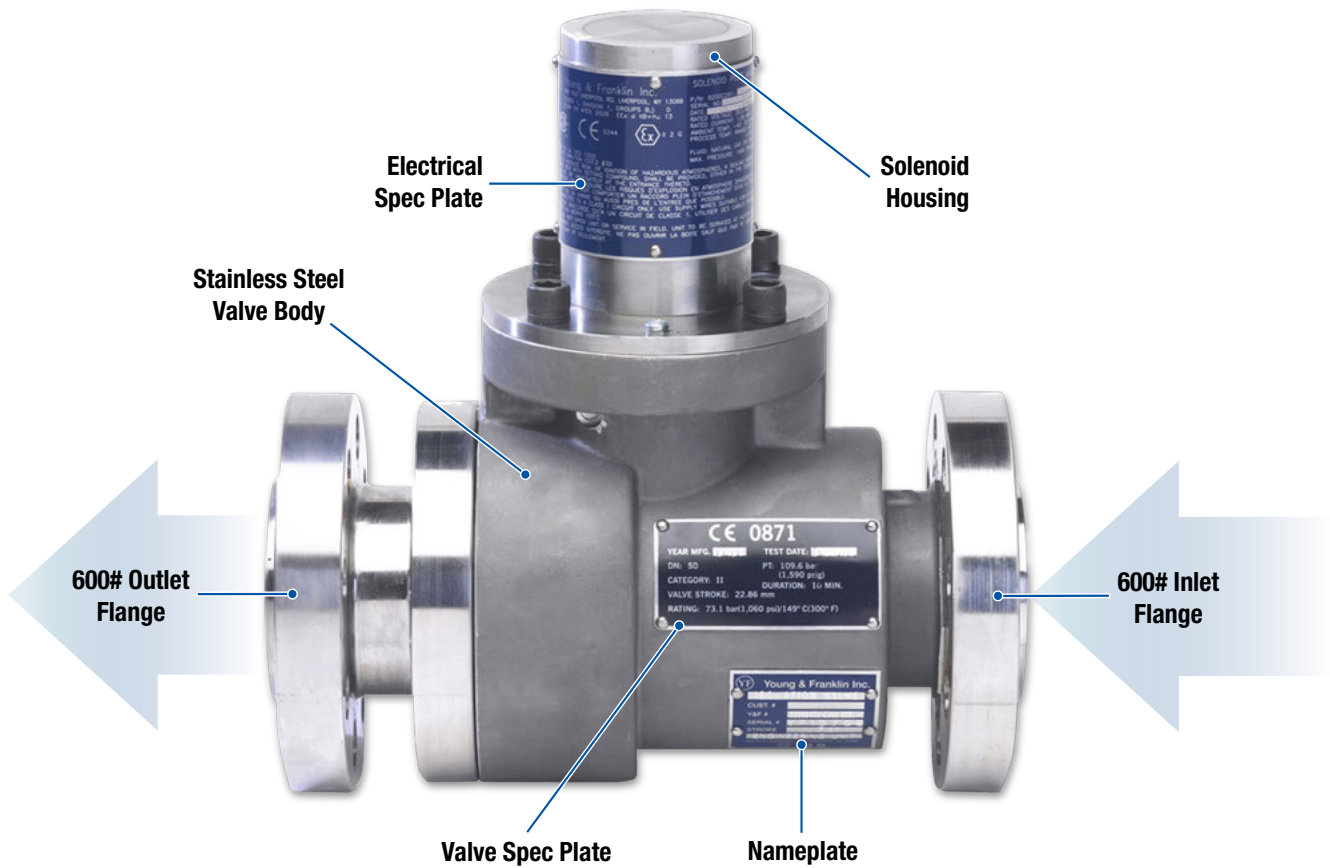


9200 Series Isolation Valve Assemblies



The Y&F 9200D490-G001 Isolation Valve Assembly in Double Block & Bleed Format

A two-way, solenoid pilot-operated valve that meets the requirements for a fast acting, high temperature shutoff valve for use on GE Energy, Pratt & Whitney and Rolls-Royce turbine engines.

Specifications: 9200 Series Isolation Valve Assembly

Fluid compatability	Natural Gas, Propane, Ethylene, Hydrogen, or most typical gas fluids
Minimum Operating Pressure	300 psig (Call Y&F for details on lower Minimum Operating Pressure specifications)
Maximum Operating Pressure	1060 psig
Minimum Actuating Pressure	80 psig
Maximum Actuating Pressure	150 psig
Minimum Pilot Pressure	110 psig
Maximum Pilot Leakage	0.00023 ib/min, Natural Gas @ 750 psig and 59~F
Valve Leakage Rating (Units tested separately)	ANSI/FCI 70-2-1991 & Optional: Class V or Class VI MSS SP-61-2003 Rolls Royce TS-004-004
Valve Proof Pressure	1590 psig
Maximum Back Pressure	650 psig
Double Block Assembly Flow Capacity (Estimated)	24000 pph, Air at Inlet Pressure 500 psig, Differential 20 psig, and 63 ~ F
Flow coefficient @ sizing point, (Estimated)	CV=71
Ambient Temperature Range	-40°F to 185°F
Fluid Temperature Range	-40°F to 300°F
Solenoid Valve Operating Voltage Range	19.0 VDC to 29.0 VDC
Solenoid Valve Minimum Available Current	@ 70~F: 0.85 amps
Solenoid Valve Current Drain	1.39 amps@40°F
Limit Switch Input Voltage	24 VDC
Internal Filtration for Solenoid	20 um (nominal)
Assembly Weight (Approximate)	Isolation Valve (Single): 85 lbs, Double Block & Bleed Configuration: 175 lbs.
Design Life	22,000 cycles (Call Y&F for details)
Valve Leakage Classification	Meets MSS SP-61
Valve Flange Rating	600# RF
Closing Response Time	<100 ms
Opening Response Time	<250 ms
Wiring interface	Solenoid, 1/2 NPT, 3 wires; Limit switch: 1/2 NTP-14, 3 ft. leads
Certifications	CSA c us Class I, Div 1, Groups B, C & D, Type 4X Encl., Ex d IIB+H2 T3 IP65

The 9200 Series Isolation Valve is a two-way, solenoid pilot-operated valve that meets the requirements for a fast acting, high temperature shutoff valve for use on GE Energy, Pratt & Whitney and Rolls-Royce turbine engines. There is a single main stage inlet port, an outlet port, and a pilot stage vent port. The valve is used to rapidly shut off gas fuel flow upstream of the gas control valve in the event of a turbine trip condition. The valve then isolates the fuel source from the turbine engine.

The 9200 Series Isolation Valves come in 120 VDC and 24 VDC versions. The units are certified to ATEX EEx d IIB+H2 T3, UL/CSA/FM Class I, Div. 1&2, Groups B,C,D. The valve can be used with air, natural gas or liquid fuels. Y&F's 9200 Series Isolation Valves are NACE compliant.