

Aircraft Fueling Control Valves

Models 601, 610, 611, 620, 621 and 650

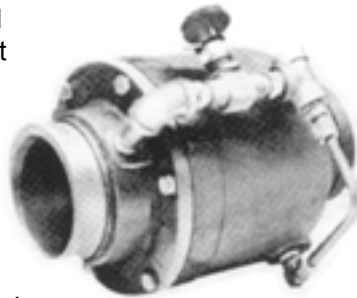
DESCRIPTION

Brooks offers a complete line of valves specifically designed for safe and economical control when fueling all jet aircraft, including the newest supersonic transports. These 600 Series valves are hydraulically operated and suitable for fueling trucks, hydrants and service carts. They will control a maximum peak surge with slower closure and lower maximum pressure on its inlet side than any other type valve.

The following models, combining the basic 600 Series Valves with one or more pilot controls, have extensive applications in aircraft fueling systems. Many other configurations, performing a combination of these functions, are available by utilizing the appropriate externally piped pilot.

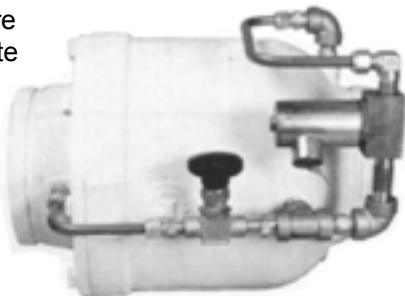
Model 601 Bottom Loading

The Model 601 contains the necessary tubing and sensitivity adjustment needle valve to function as an on-off or regulating valve when controlled by the appropriate pilot valve. The tank truck bottom loading Model 601 is regulated by a Model 410 float pilot mounted in the tank and set to automatically close at a predetermined fuel level.



Model 610 Normally Closed and 611 Normally Open Electrical Fuel Shutoff Valve

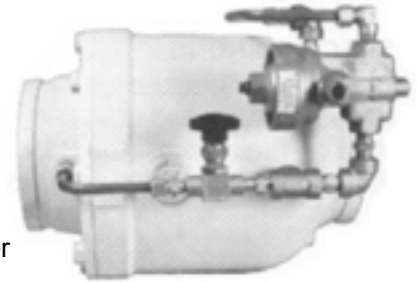
These solenoid operated valves are designed for remote shutoff of fuel on refueler trucks or loading racks. They are available with any standard AC or DC coil.



Model 620 Normally Closed and 621 Normally Open Hydraulic or Pneumatic Fuel Shutoff Valve

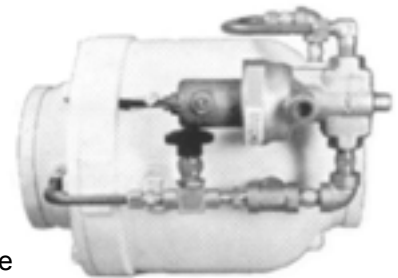
These hydraulically or pneumatically pilot operated control valves are designed for remote shutoff of fuel. They are ideally suited for deadman and water slug control.

A minimum pressure of 15 psi (103 kPa) is required to operate the pilot.



Model 650 Pressure Reducing Control Valves

The Model 650 Control Valve is installed in the main line and will regulate maximum downstream pressure within ± 2 psi (13.8 kPa) regardless of variations in flowrate or upstream pressure.



DESIGN FEATURES

- Victaulic connections for ease of installation
- All Aluminum and Stainless Steel Construction
- Compact, lightweight in-line design
- Multiple function control pilots for pressure surge and deadman control
- Adjustable opening speed control
- Positive check against reverse flow
- Linear valve action
- Uniform speed of response
- Positive, bubble tight shutoff

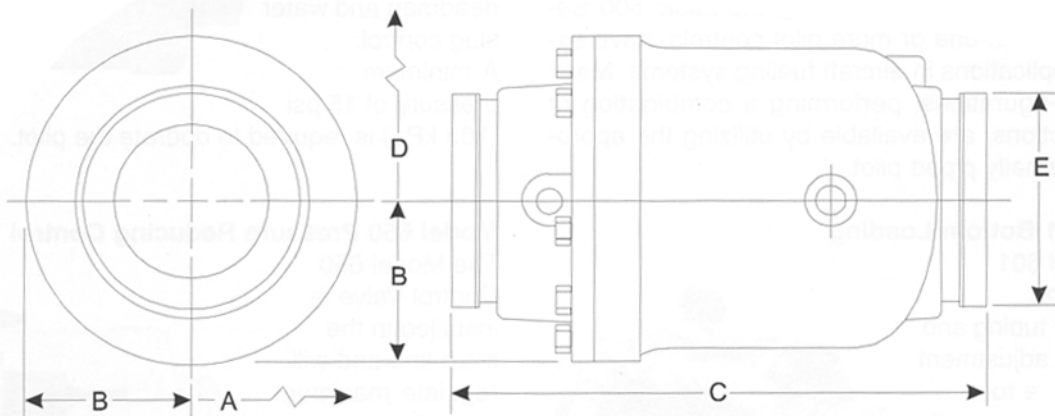
⚠ WARNING
 Do not operate this instrument in excess of the specifications listed. Failure to heed this warning could result in serious injury and/or damage to the equipment.

MATERIALS OF CONSTRUCTION

Main Valve Body and Cover: Anodized Aluminum
 Piston: Anodized Aluminum
 All other internal parts: Stainless Steel

SPECIFICATIONS

Connections: Victaulic
 Sizes: 2", 3", 4", and 6"
 Working Pressure: 200 psi (1378 kPa) at 100°F(38°C)
 Flow Rates: Up to 1200 gpm (4536 lpm)



NOTE: Dimensions "A" and "D" are approximate to remotest point with one pilot

Dimensions - Base Model, Series 600 Aircraft Fueling Control Valves

Valve Size	A	B	C	D	E
2"	6-1/2" (165mm)	2-5/8" (67mm)	7-15/16" (211mm)	5" (127mm)	2-3/8" (60mm)
3"	7-1/2" (191mm)	3-3/8" (89mm)	11" (279mm)	5" (127mm)	3-1/2" (89mm)
4"	8-7/8" (225mm)	3-7/8" (98mm)	11-5/16" (287mm)	5" (127mm)	4-1/2" (114mm)
6"	10" (254mm)	5-1/2" (140mm)	14-3/4" (375mm)	6-7/8" (175mm)	6-5/8" (168mm)



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