

Model 695 Aircraft Fueling Control Valves

DESCRIPTION

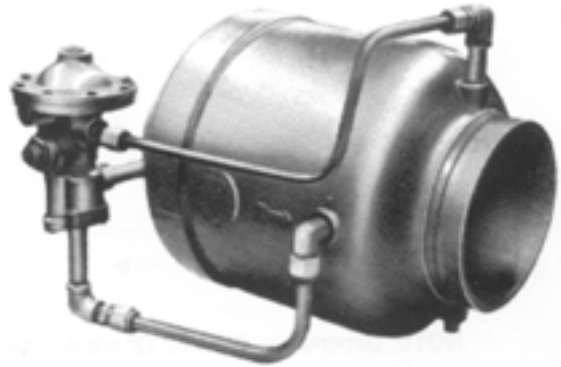
Daniel offers a complete line of valves specifically designed for safe and economical control when fueling all jet aircraft, including the newest supersonic transports. These 600 Series valves are hydraulically operated and suitable for fueling trucks, hydrants and service carts. They will control a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

A multi-function pilot, sensed to a selected point downstream, regulates the 600 Series Valve to maintain a desired fuel pressure and to limit abnormal pressure rise or surge at the wing manifold. One simple adjustment sets the pilot for both pressure control and surge control. The pilot set point can be air referenced using the Model 695.

Model 695 Valves combine the basic 600 Series features and an air referenced multiple function pilot for control of fuel pressure and surge. Accurate control is maintained with an air bias pressure of only 10 psi (69 kPa). Valve closure is achieved by exhausting the air reference pressure to the pilot through a 3-way valve (deadman) in the air system. This demand type valve, used primarily on tank truck applications, will accurately maintain a maximum downstream pressure setting within ± 1.0 psi (6.9 kPa) regardless of valve inlet pressure at flow rates of 100 to 1200 gpm (375 to 4536 lpm). The Model 695 Valve monitors any abnormal pressure rise or surge such as that induced by the closure of the wing manifold valves. If the pressure surge exceeds the pilot set point by 10 psi (69 kPa), the surge function of the pilot takes command and immediately closes the valve to hold peak surge below 120 psi (827 kPa) at the wing manifold.

DESIGN FEATURES

- Victaulic connections for ease of installation
- All Aluminum and Stainless Steel Construction
- Accurate pressure control of fuel at flow rates up to 1200 gpm (4536 lpm)
- Limits peak surge to less than 120 psi (827 kPa) at wing manifold
- Compact, lightweight in-line design
- Balanced piston design
- Linear valve action
- Uniform speed of response
- Positive, bubble tight shutoff



! WARNING

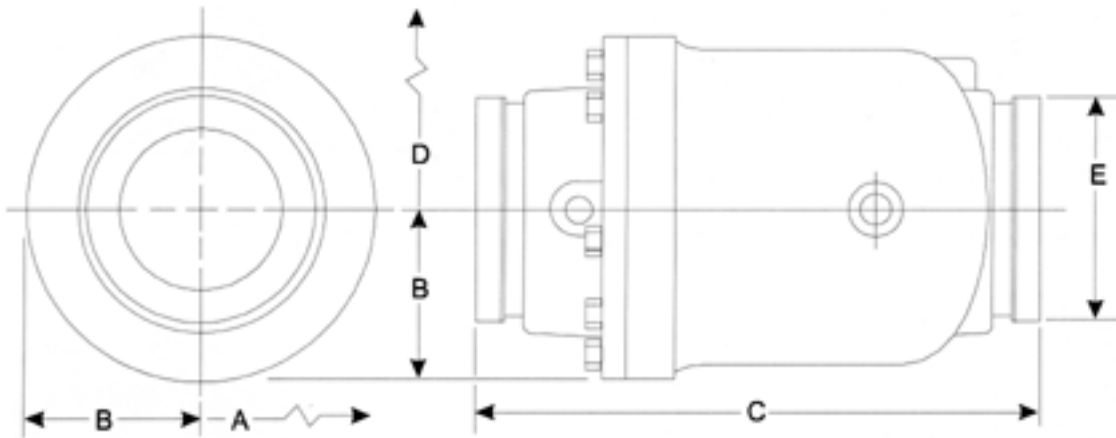
Do not operate this instrument in excess of the specifications listed. Failure to heed this warning could result in serious injury and/or damage to the equipment.

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)
Model 695 Aircraft Fueling Control Valve



NOTE; Dimencions "A" and "B" are approximate to remotest point with on 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"	8-7/9" (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)

For accessory information reference Bulletin DS1600AC.

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