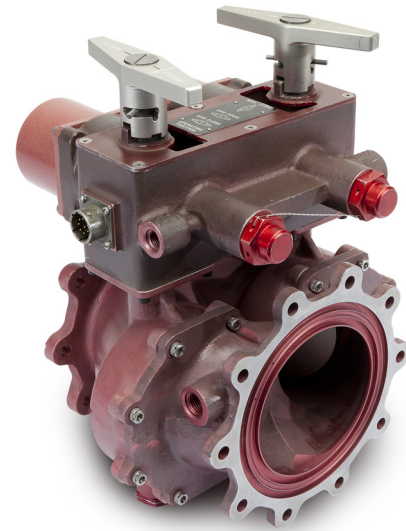


Aerial Refueling Boom Bypass

The VACCO Aerial Refueling Boom Bypass Valve is a parallel redundant fuel shutoff valve in a common housing. Each butterfly type valve is spring-loaded closed and actuated open with applied hydraulic fluid.

Each hydraulic actuator has series-redundant piston seals with a drain between leading to a single hydraulic drain port. Each end interface fuel port and each fuel valve section also has series redundant static seals with a drain between all redundant seals leading to a single fuel drain port.

Each hydraulic actuator includes integral hand valves to manually override and close hydraulically actuated open valves.



AIRCRAFT

Features

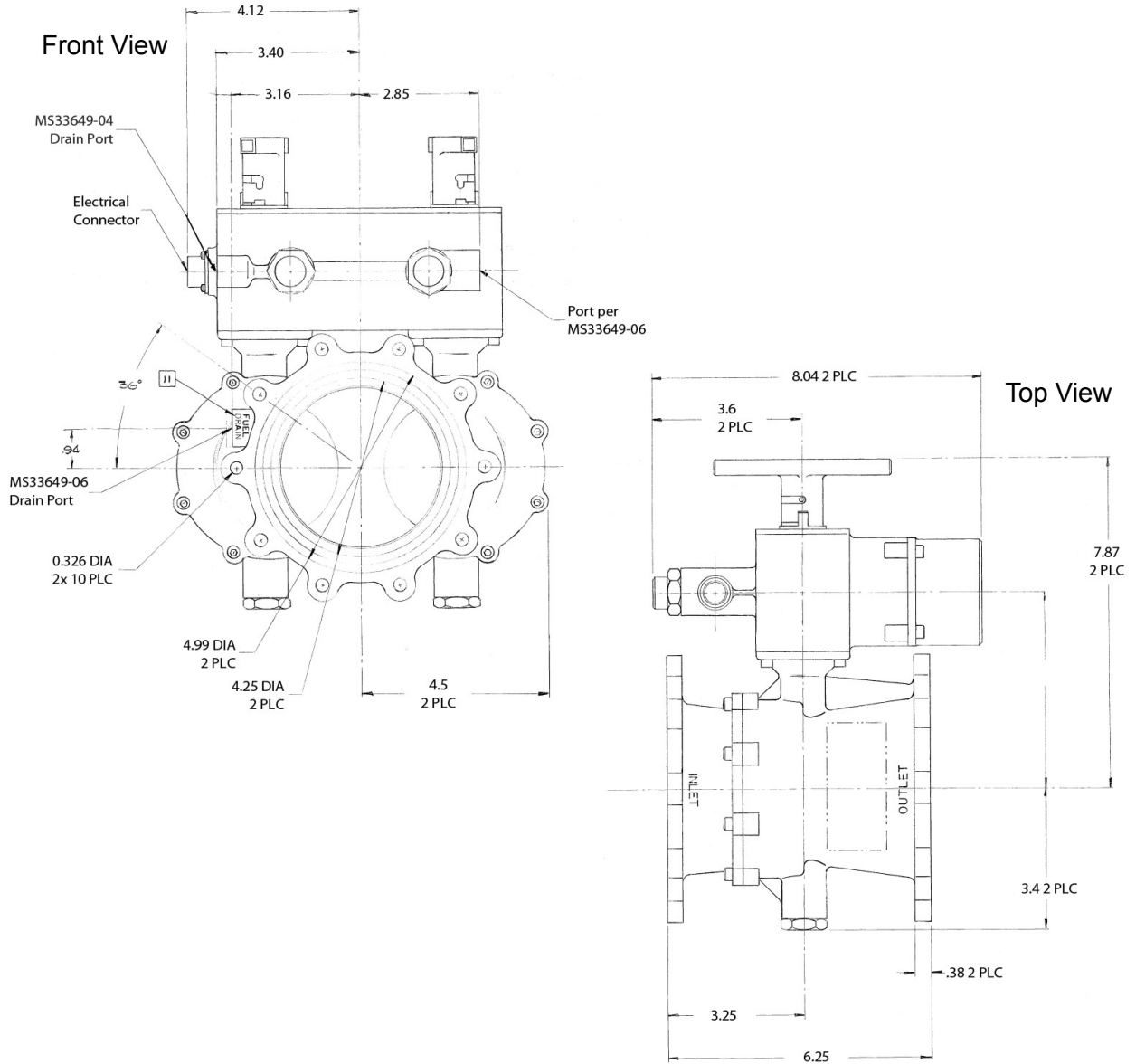
- Dual (parallel) valves in a single compact assembly
- Position indication switches for each valve coupled to a single electrical connector
- Single hydraulic and fuel drain ports for redundant seals
- Manual override to close hydraulically open valves
- Positive locking to ensure closed valves cannot be manually overridden open

Operating Parameters

Fuel Operating Pressure ≤120 psig
 Fuel Proof Pressure 240 psig
 Fuel Burst Pressure 360 psig
 Fuel Temperature -65° to 225°
 Hydraulic Operating Pressure ≤3000 psig
 Hydraulic Proof Pressure 4500 psig
 Hydraulic Burst Pressure 7500 psig
 Hydraulic Temperature -65° to 225°

Ambient Temperature -65°F to +165°F
 Fuel Flow Rating ≤0.5 psid @ 330 GPM
 Switch Rating 5 amp @ 28 VDC per contact set
 Actuator Opening Valve Response ≤50 mSec
 Actuator Closing Valve Response ≤100 mSec
 Internal Leakage ≤3 cm³/min
 External Leakage no visual
 Weight ≤11 lb (≤5kg)

Performance characteristics are based on customer requirements. As such, they are not representative of component capabilities or limitations.



Electrical Schematic

