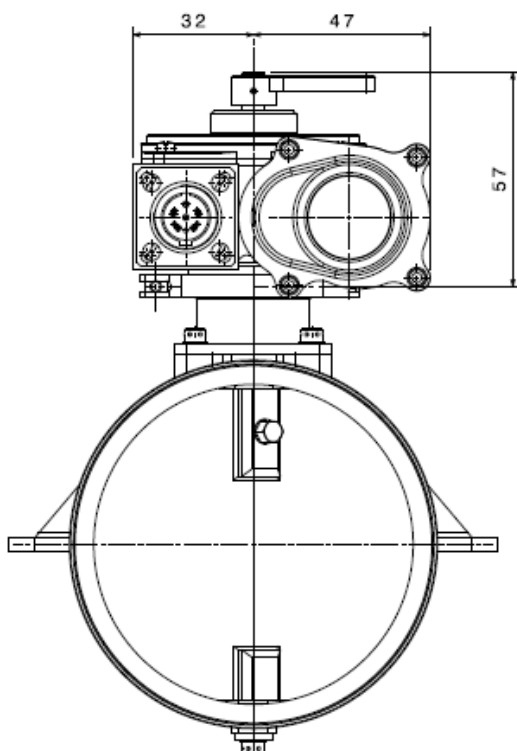
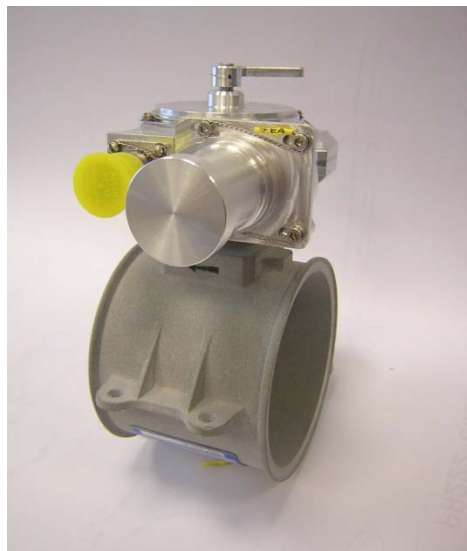


ECS distribution valve

Function:
Control flow for ECS



1. Status

Development in progress

2. Main performance

Max air inlet temperature 120°C (248°F)

Pressure drop < 0.008 bar (0.1psi)
(Valve full open) air flow 20kg/min
(air inlet temperature) 70°C (158°F)

Max air flow 20 kg/min

Max current to operate 0.4 A

Operating temperature -55 to 100°C
(ambient temperature) -67 to 212°F

Weight 0.950 kg (2 lb)

Internal leakage < 66 l/mn @ 70 mbar at 70°C

External leakage 15 l/min @70mbar at 70°C

Closing time < 8s

Opening time < 8s

Adaptations :

- Manual override
- Alternative detection position solution:
 - Switches
 - Optical sensors
 - Potentiometer
- Operating time

3. Reliability / maintainability

Reliability MTBF 25 000 FH

Maintainability On condition (LRU)

INNOVATIVE TECHNICAL SOLUTIONS
HIGH QUALITY
COMPETITIVE PRICES
EXPERIENCED WORKFORCE

Pôle de Buconis
32600 L'Isle Jourdain
FRANCE

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Website www.equipaero.com

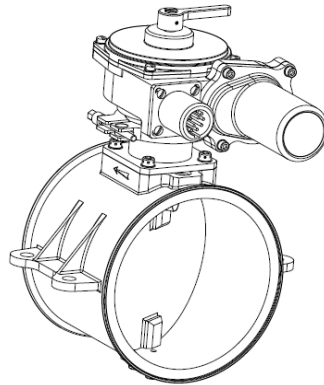
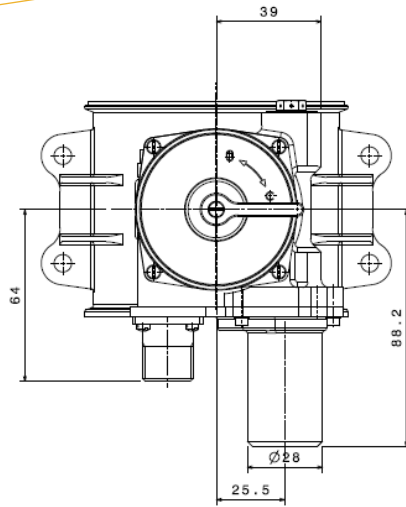


EQUIP'AERO
TECHNIQUE

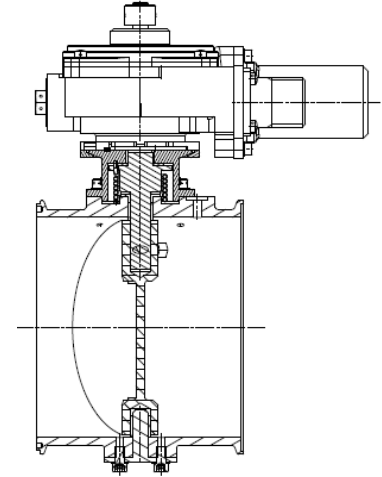
Certified
EN9100
Part 21G
ISO 14001

ECS distribution valve

INNOVATIVE TECHNICAL SOLUTIONS
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COMPETITIVE PRICES
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4. Mechanical interfaces



Inlet / outlet flange from Ø 2 to 5 in

5. Electrical interfaces

Connector type Adaptable by request

Electrical supply 18 to 30VDC

6. Qualification environment

Environment	Norm/Cat	Environment	Norm/Cat
High temperature	DO160 E §4	Explosion proofness	DO160 E §9
Low temperature	DO160 E §4	Proof pressure	Following CS-E and CS-25
Vibration	DO160 E §8.7 cat S curve C	Burst pressure	Following CS-E and CS-25
Operational shocks	DO160 E §7	Fire	DO160 E § 26
Crash safety	DO160 E §7	Endurance	18 000 cycles
Sand and dust	DO160 E §12	Voltage spike	DO160 E §17
Fluid susceptibility	DO160 E §11	Humidity	DO160 E § 6
Salt spray	DO160 E §14	Waterproofness	DO160 E § 10
Induction Icing	DO160 E §24	Power input	DO160 E § 16
Fungus resistance	DO160 E §13	Magnetic effect	DO160 E §15
Temperature/altitude	DO160 E § 4	EMI test	DO160 E §18 to 23
Thermal cycle	DO160 E §5 cat C	Electrostatic discharge	DO160 E §25

7. Equipment adaptations

Architecture and technologies adaptable on customer request

Body less valve,
3 ports distribution valve

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