

# ITV1-AOxx Internal Valve

Liquip's 25mm ITV1-AOxx series of internal valves are typically used for Aviation applications. They are normally installed in the bottom of aviation tankers as the intermediate valve.

The ITV1-AO 25mm internal valve with integral elbow, has been designed for use on aircraft refueller tankers which have small sample or drain lines

## Features and Benefits

- Normal fitting in the sump is a 25mm BSP socket.
- Flow is outwards only.
- The elbow incorporates a shear groove above the pipe attachment aperture to ensure a breakaway (in the event of damage) at that point.
- Valve poppet, spring and shaft are all attached above the shear point to ensure the continued containment of product in the tank.
- In the event of fire the air line will soften at 80°C and release any air in the systems and close the poppet.



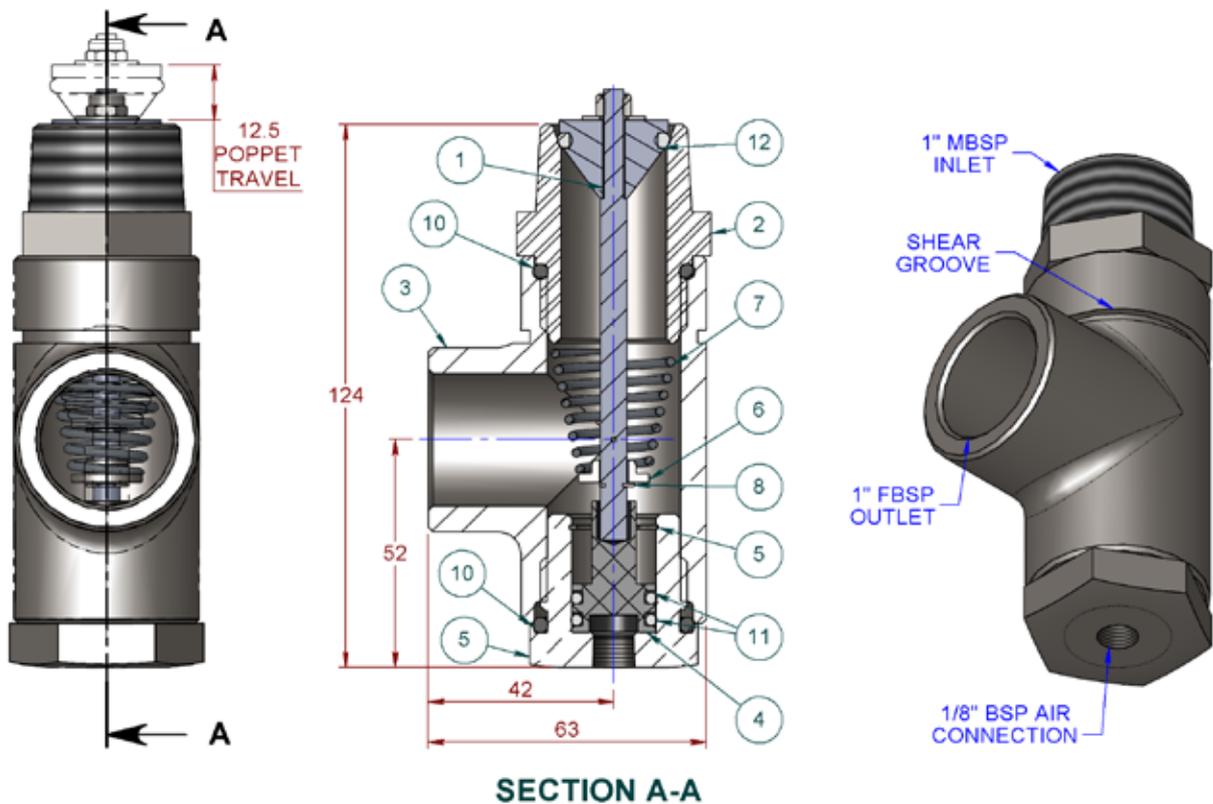
## Technical Information

Size	25mm bore
Seal Temp	seal options include Viton A or Viton GFLT (low temp)
Operation	The poppet is pushed upwards by a piston when air is supplied to the air inlet at the base of the valve.
Opening Air Pressure	A minimum of 350kPa of air pressure is required to open the valve fully.
Dismantle	Seals can be easily removed and replaced: Poppet seal: unscrewing the valve seat from the body Piston seal: unscrewing the cylinder end.
Mounting	Screw into 1" BSP socket. With 1" BSP outlet port and 1/8" BSP air inlet port.
Servicing	No routine maintenance required.
Materials	Aluminium poppet. Nickel plated body and valve seat Viton poppet and piston seals. Acetal piston.
Weight	0.9Kg.

## Ordering Information

- **ITV1-A0:** 25mm Internal valve air operated (Viton A).
- **ITV1-A0VG:** 25mm Internal valve air operated (Viton GFLT).

# ITV1-AO SERIES INTERNAL VALVE



## MAINTENANCE NOTES:

1. PRIOR TO FITTING O-RINGS, ENSURE THAT SEALING FACES ARE FREE FROM BURRS AND SHARP EDGES.
2. APPLY SMEAR OF MOLYKOTE (3452) GREASE TO ALL O-RINGS ON ASSEMBLY.
3. CHECK THAT CLEARANCE EXISTS BETWEEN POPPET STEM & PISTON SO THAT POPPET O-RING SEATS FULLY.

ITEM	PART No	DESCRIPTION	ITV1-AO	ITV1-AOVG	MATERIAL
1	ITV1-1	POPPET AND SHAFT ASSY	1	1	ALUMINIUM
2	ITV1-2	SEAT VALVE 25mm ITV	1	1	N/P STEEL
3	ITV1-3	BODY INTERNAL VALVE	1	1	N/P STEEL
4	ITV1-4	PISTON AIR	1	1	ACETAL
5	ITV1-5	CYLINDER AIR	1	1	N/P STEEL
6	ITV1-6	SPRING RETAINER	1	1	ST STEEL
7	4411	SPRING COMPRESSION	1	1	ST STEEL
8	4517	E-CLIP METRIC	1	1	ST STEEL
9	1143	CIRCLIP INTERNAL	1	1	ST STEEL
10	0171	O-RING	2	2	NITRILE
11	0288	O-RING	2	-	VITON A
	0288VG	O-RING	-	2	VITON GFLT
12	0252	O-RING	1	-	VITON A
	0252VG	O-RING	-	1	VITON GFLT
13	6426	ITV1-AO INSTALLATION	1	1	PAPER