

# AV01 Double Block & Bleed Valve

## Overview

The AV01 is an all-in-one double block and bleed valve designed for instrument apparatus isolation from the process. The valve dimensions keep design geometry efficient while providing effective double block process isolation.

Features:

- Double valve isolation is achieved by using two quarter-turn ball valves
- Needle valve is integrated into the 1/2" NPT (plugged) venting port for easy relief of the process during isolation
- CRN (Canadian Registration Number)
- Full material traceability
- Machined from single piece bar stock - no welds

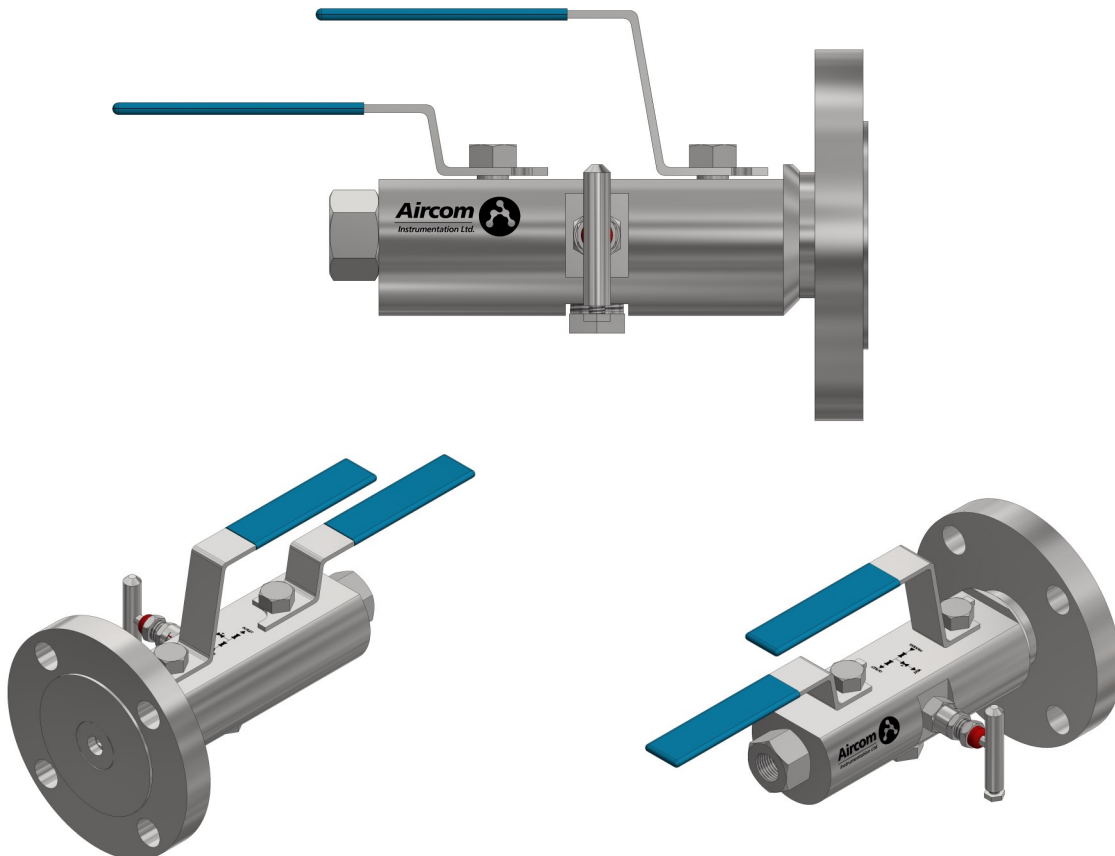
## Specifications

When designing the AV01 into your process environment it is important to understand the following specifications:

- Valve designed and registered to ASME B16.34
- Inlet flange dimensions per ASME B16.5
- Body and wetted material is 316/316L stainless steel
- PTFE gland seal, ball seat and gasket material
- Isolation ball valve - 10mm bore
- Vent screwed bonnet needle valve - 5mm bore
- 1/2" NPT vent / drain port supplied with 316 SS plug
- 1/2" NPT instrument connection
- Flanged process connection
- Factory tested

## Applications

- Pressure transmitter isolation
- Pressure switch isolation
- Pressure indicator (gauge) isolation
- Sample system isolation
- Pressure transducer isolation
- Pressure relief valve isolation

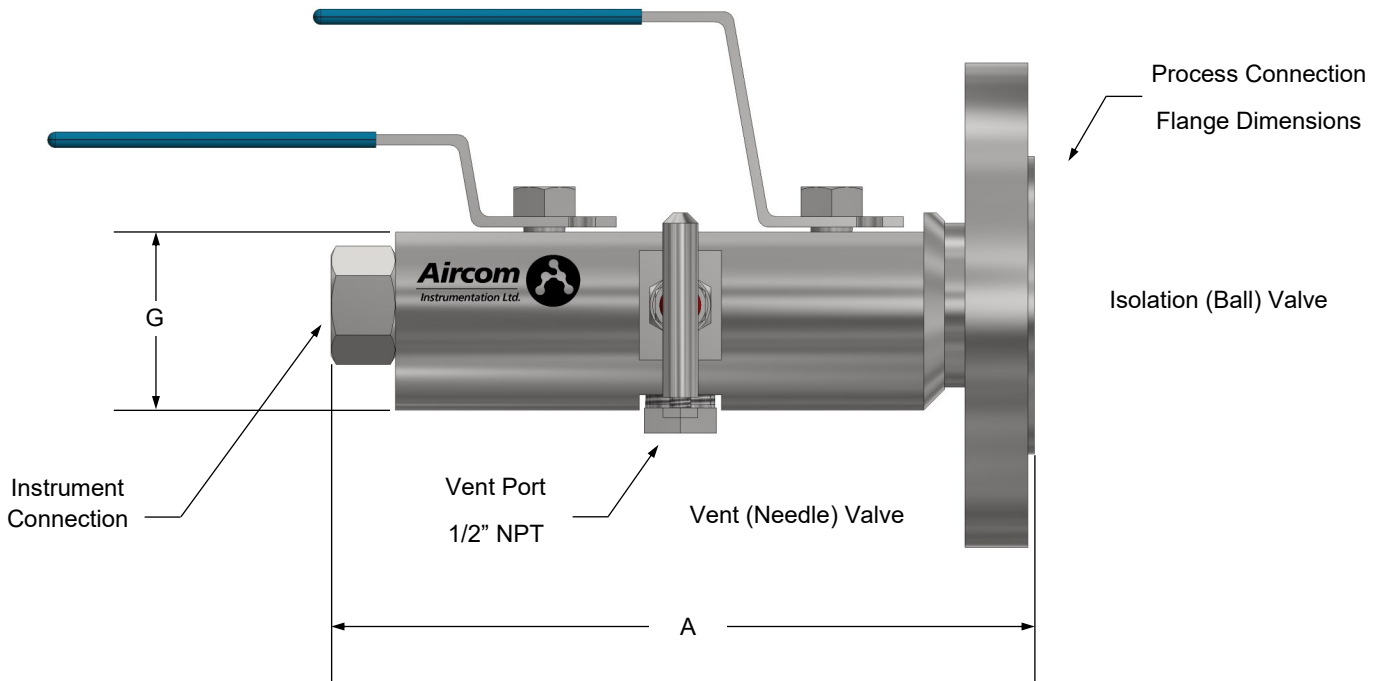


# AV01 Double Block & Bleed Valve

## Model Code

Model Code	Size	"A" Length	"G" Length	Pressure & Temperature Rating
AV01-150	2" CL150 RF	180.0 mm	55 mm	275 psi (1896 kpa) @ 100°F (38°C)
AV01-300	2" CL300 RF	185.0 mm	55 mm	720 psi (4964 kpa) @ 100°F (38°C)
AV01-600	2" CL600 RF	196.0 mm	55 mm	1440 psi (9928 kpa) @ 100°F (38°C)
AV01-900	2" CL900/1500 RF	210.0 mm	66 mm	3600 psi (24821 kpa) @ 100°F (38°C)

## Outline & Dimensions



Double Block & Bleed Valve Specifications	
Valve configuration	Ball (isolation) - Needle (vent) - Ball (isolation)
Process Connection	2" NPS Flanged Class (varies)
Instrument connection	1/2" NPT(F)
Bore	Vent = 5mm / Isolation 10mm
Vent port	1/2" NPT(F) port (plugged)
Wetted material & body	316/L Stainless Steel
Packing material	PTFE (-35 to 204°C)
Valve design	B16.5, B16.34
Valve manufacturer	Mac-Weld Machining Ltd.

### NOTES:

1. Part number example: AV01-300
2. General construction meets the requirements of NACE, consult factory

