

Ultra-High Vacuum Valve 10AIV/VLV Series

Ultra-High Vacuum Valve (Air Inlet Valve) 10AIV Series



Specifications

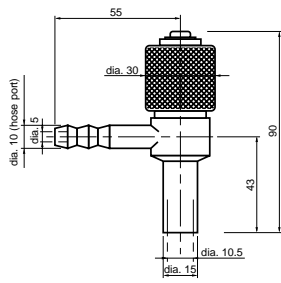
Item	Model	10AIV	10AIV-FM	10AIV-F
Connection flange*1		dia. 15	UFC034-FH	UFC070-FH
Main unit material		Valve body, disk: Stainless steel		
Gasket material		Fluoride rubber		
Allowable baking temperature	°C	150 maximum		
Applicable pressure range	Pa	10 ⁻⁵ -10 ⁻⁷		
Leak volume	Pa·m ³ /s	< 6.7 x 10 ⁻¹¹ *2		
Allowable surrounding temperature	°C	5-40		
Operation method		Manual		
Open/close signal output		Attachment not possible		
Remarks				

Note: SI units are used in this catalog. The following conversion can be used for non-SI units.

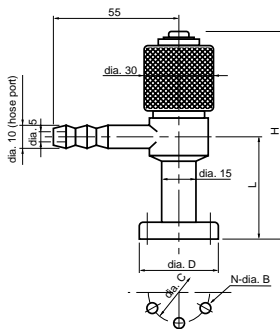
Ultimate pressure: 1Pa = 7.5 x 10⁻³ Torr

*1 UFC034-FH and 070-FH are ULVAC standard stainless steel knife-edge metal seal flanges.

*2 O-ring permeability is not included in the leak volume.



10AIV



10AIV-F/M

Item	Flange specification	Flange diameter dia. D	Surface interval L	Total height H	Bolt center dia. C	Hole quantity/diameter N-dia. B	Weight kg
10AIV	—		See dimension table.				0.25
10AIV-FM	UFC034-FH	33.8	46	94	27	6-4.4	0.3
10AIV-F	UFC070-FH	69.3	48	96	58.7	6-6.8	0.6

unit: mm

*1: Conductance: Calculated value using molecular flow, 20 °C, and air

Variable Leak Valve VLV-3D (Manual)

Specifications

Item	Model	VLV-3D
Connection flange		UFC-034
Main unit material		Austenitic stainless steel, AL alloy, copper + Ni plating
Gasket material		—
Allowable baking temperature	°C	Max. 150
Applicable pressure range	Pa	10 ⁻⁵ -10 ⁻⁹
Flow rate adjustment range*1	Pa · m ³ /s	10 ⁻⁸ -10 ⁻⁴
Leak volume*2	Pa · m ³ /s	< 6.7 x 10 ⁻¹¹
Allowable surrounding temperature	°C	5-40
Operation method		Manual

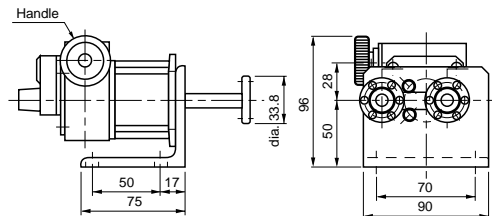
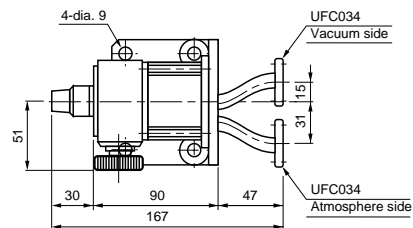
Note: 1. SI units are used in this catalog. The following conversion can be used for non-SI units.

Ultimate pressure: 1Pa = 7.5 x 10⁻³ Torr

2. VLV-3D: This valve has a welded structure and nose replacement is not possible.

*1 Values when gas introduction pressure is 0.2 kg/cm² G.

*2 Values when gas introduction pressure is atmospheric pressure.



VLV-3D