IBC/IBD/IBE

Bellows Valves Large-size Straight Type The IBC/IBD/IBE series, like the SBB series, consist of larger pipe size bellows valves that, while having a compact design, high Cv value, and high durability, are premised on use in supply lines.

■ Features

- KITZ SCT's Y shape structure yields higher Cv than conventional S shape structure.
- The inner surfaces of the IBC/IBD valves are uniformly polished whole-surface cylindrical grinding.
- Because of their screw-sleeve structure with built-in bearing, the IBE valves require less torque on the handle for easy operation.
- Adopted a seat structure to reduce gas pooling and particle shedding.
- By setting the air supply inlet on the top of the actuator, there is no concern over piping direction.
- Realization of more compact design through positioning the actuator on the side.
- O Purge port options available for the Inlet, Outlet, or Both.

■ Specifications

Model		IBC			IBD			IBE						
Model (size)		32A	40A	50A	65A	80A	100A	125A	150A	200A	250A	300A		
Cv		21.0	30.0	51.0	89.0	127.0	205.0	329.0	473.0	1117.0	1739.0	2608.0		
Wetted Area Volume		368cm ³	440cm ³	980cm ³	1710cm ³	2910cm ³	5890cm ³	11310cm ³	19290cm ³	45700cm ³	71100cm ³	131260cm ³		
		Butt Weld, OPEN State												
Maximum Operating Pressure		0.98MPa(G)												
Fluid Temperature	Manual	-10~100°C												
Range	Pneumatic		-10°C~80°C)					-					
Atmospheric Temperature		-10°C~60°C												
Leak Rates	Across the Seat He Leak Rates	≤ 1×10 ⁻¹⁰ Pa⋅m³/sec												
	Inboard He Leak Rates	≤ 1×10 ⁻¹⁰ Pa·m³/sec												
Operation Pressure of Pneumatic Actuator		0.8	5~0.7MPa	(G)					-					
Cycle Life		10,000 cycles (N2 charged, In-house Test)												

■ Product Grade

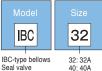
Specifications		IBC S	Series	IBD S	Series	IBE Series				
Grade		STD	EP (electro polished)	STD	EP (electro polished)	STD	EP (electro polished			
Material			SCS	SCS16A (125A~150A)						
			503	SUS316L (200A~300A)						
Surface Roughness	Body Inner Only	Rz 6.0 μm	Rz 0.7 μm	D= 6.0		Rz 6.0 µm (125A~150A)	≤ Rz 0.7 µm			
				Rz 6.0 μm	Rz 0.7 μm	Rz 12.0 μm (200A~300A)				
		After welding,		After Welding,		After Welding,				
		No Bead Cut		No Bead Cut		No Bead Cut				
Cleaning		Degreasing + Precision Cleaning								
Clean Room Environment		Class 100 Clean Room Environment								
Packaging		Single Bagged Package	Double Bagged Package	Single Bagged Package	Double Bagged Package	Single Bagged Package	Double Bagged Package			

■ Precautions

- ① IBC/IBD/IBE Series cannot be used with reactive or corrosive gases, nor with any liquids.
- ② These valves are designed to be used under atmospheric pressure. Usage such as under vacuum vessels is not guaranteed.



Product Code Table





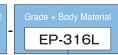












Not Displayed: STD-316L: Mechanical polish + SUS316L Without Purge Port EP-316L: Electro polish + SUS316L IP: 1st OP: 2nd PP: Both

■IBC 32A·40A Dimensions

Unit: inch (mm)

Model	Type	Connection	L	Е	Н	Α	D	d	t
	IBC32MY3-WCT	32A Butt Weld	10.63 (270.0)	2.17 (55.0)	7.87 (200.0)	4.72 (120.0)	1.68 (42.7)	1.55 (39.4)	0.06 (1.65)
	IBC40MY3-WCT	40A Butt Weld	10.63 (270.0)	2.17 (55.0)	7.87 (200.0)	4.72 (120.0)	1.91 (48.6)	1.78 (45.3)	0.06 (1.65)

^{*1} Please ask to the sales representative about handle color.

^{*2} Inch size butt weld also available