



Engineered Product Reference Guide

Customer Service
800.789.1718

B45-Series Air Blow Check Valve



The B45-Series Air Blow Check Valve is used in sanitary processes to evacuate product or inject clean air or gas into the system. It can be used in combination with the HYC Y-Ball Check Valve.

They are found in the food processing, beverage, dairy, personal care, winery, brewery, pet product, and industrial markets.

Sizes

- 1-1/2", 2", 2-1/2", 3", and 4"

Materials

- Product contact metal components: 316L stainless steel
- Non-product contact metal components: 304 stainless steel
- Product contact seals: EPDM

Specifications

- Standard connections
 - Clamp to process
- Air connections
 - 1/4" quick connect plug
 - 1/2" NPT cap
 - 1" hose barb
 - Air relief cap
- Valve data
 - Maximum pressure: **145 PSI**
 - Maximum operating temperature: **212°F (100°C)**
 - Cracking pressure: **9 PSI**
 - Capacity: see chart below
 - Sizing: see chart below
- Surface finish
 - Product contact metal components: Ra ≤ 32



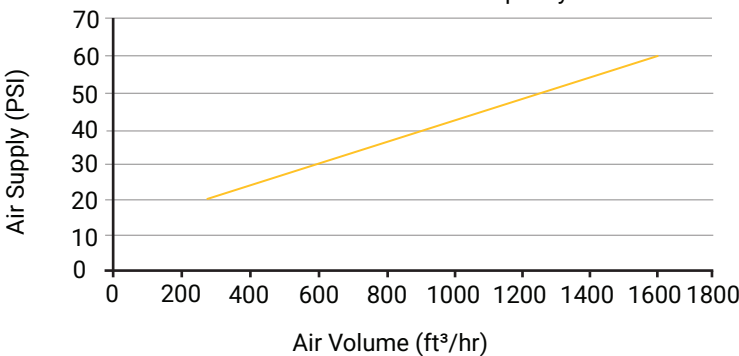
B45-series body with single pin clamp



B45Y-series body with Clever Clamp™

Capacity Chart

Air blow with filter disc capacity



Sizing Chart

Ball Check Valve Size	Air Blow Check Valve Size
1-1/2"	2"
2"	2-1/2"
2-1/2"	3"
3"	4"

NOTE: When using air blow check valves with ball check valves, refer to the sizing chart above.

B45-Series Air Blow Check Valve - Part Number Key

B45-Series Air Blow Check Valve Part Number Key Example: B45AB-R100150		Series	Air End Connection	Air Blow Body/ Seal Material	Size	Options
		B45	AB	-	R	100150
Series	Code	B45	AB	-	R	
B45	B45					
B45Y (with ball stabilizer option) ¹	B45Y	B45	AB	-	R	
Air End Connection	Code					
1/4" male air line quick connect	AB	B45	AB	-	R	
1/4" NPT cap ²	BA					
3/8" NPT cap ²	BB	B45	AB	-	R	
1/2" NPT cap	BC					
3/4" NPT cap ²	BD	B45	AB	-	R	
1" hose barb	CC					
Air relief cap	AR	B45	AB	-	R	
Air Blow Body/Seal Material	Code					
316L stainless steel/EPDM	R	B45	AB	-	R	
Size	Code					
1-1/2" ³	100150	B45	AB	-	R	
2"	200					
2-1/2"	250	B45	AB	-	R	
3"	300					
4"	400	B45	AB	-	R	
Options	Code					
32 Ra (ID mechanical polish) (standard) ⁴	blank	B45	AB	-	R	
25 Ra (ID mechanical polish) ⁴	B					
20 Ra (ID mechanical polish) ⁴	C	B45	AB	-	R	
15 Ra (ID electropolish) ⁴	D					
32 Ra (ID mechanical polish) with customer specified ID marking ⁴	E	B45	AB	-	R	
25 Ra (ID mechanical polish) with customer specified ID marking ⁴	F					
20 Ra (ID mechanical polish) with customer specified ID marking ⁴	G	B45	AB	-	R	
15 Ra (ID electropolish) with customer specified ID marking ⁴	H					
32 Ra (ID mechanical polished) with Clever Clamp™	I	B45	AB	-	R	
32 Ra (ID mechanical polish) with Clever Clamp™ with self locking pin	J					

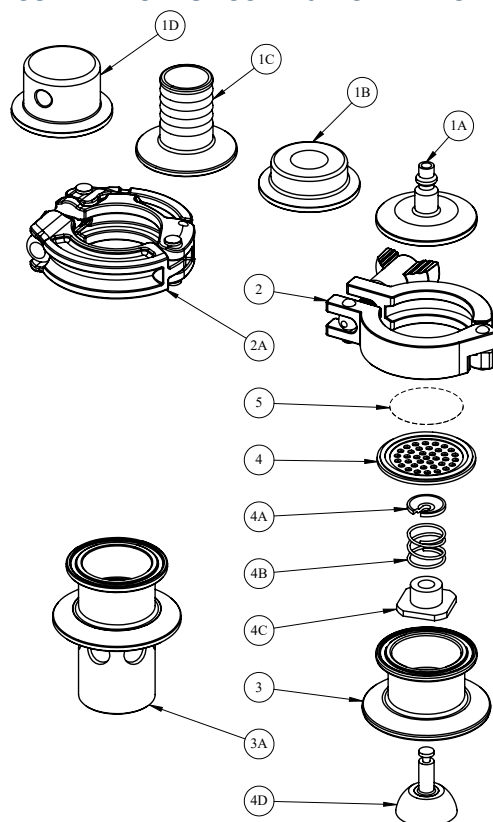
¹To be used with HYC-series Y-ball check valve only

²Non-stock items, built to order

³Can only be connected to 1-1/2" ferrule

⁴Standard single pin clamp with serrated nut

B45-Series Air Blow Check Valve - Bill of Materials



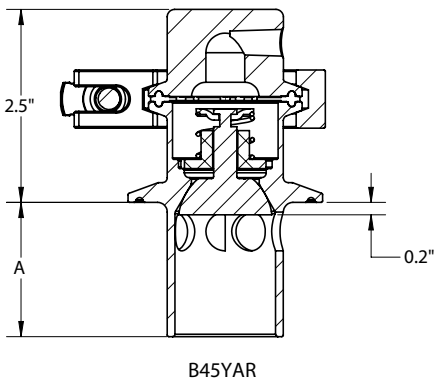
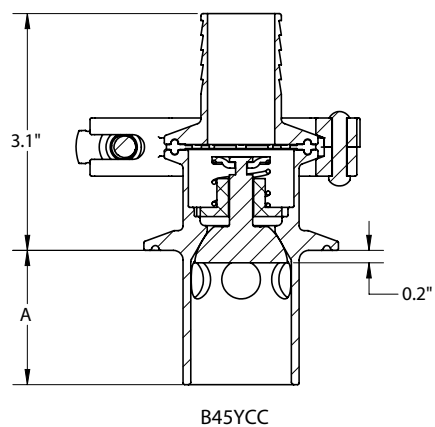
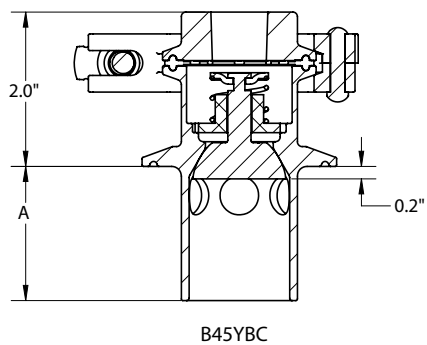
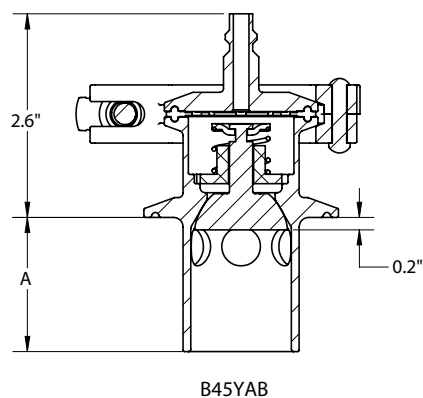
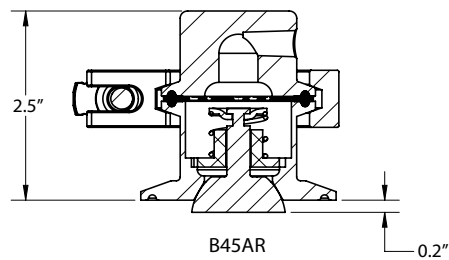
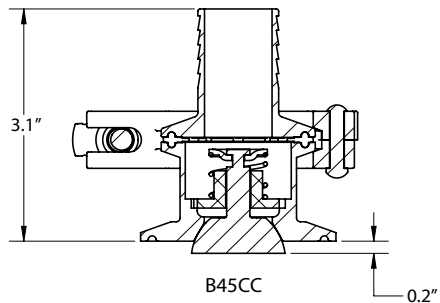
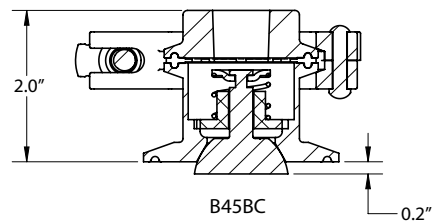
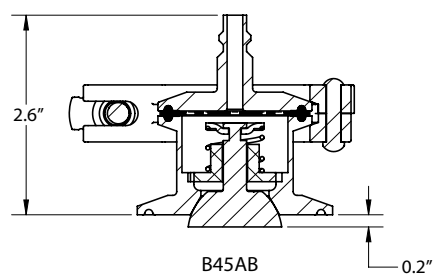
Item #	Valve Size	Part #	Part # Key Identifier	Part # Key Code	Description	Material	Qty
1A	all	B16AC-G150	Air End Connection	AB	1/4" air line quick connect	316L SS	1
1B	all	B23BMP-R100		BC	1/2" NPT cap	316L SS	1
1C	all	14MPHR-R100		CC	1" hose barb	316L SS	1
1D	all	HAV-4A		AR	1/8" NPT cap	316L SS	1
2	all	13MHHM100-150SN	Air End Clamp Type	(blank)	single pin clamp with serrated nut	CF8	1
2A	all	13SCC-100150		C	Clever Clamp™	304 SS	1
	all	13SCC-100150L		L	Clever Clamp™ with self locking pin	304 SS	1
3	1" - 1-1/2"	B45AB-3-100150	Series	B45	valve body	316L SS	1
	2"	B45AB-3-200					1
	2-1/2"	B45AB-3-250					1
	3"	B45AB-3-300					1
	4"	B45AB-3-400					1
3A	1" - 1-1/2"	-		B45Y	valve body for HYC-series check valve	316L SS	1
	2"	B45Y-3-200					1
	2-1/2"	B45Y-3-250					1
	3"	B45Y-3-300					1
	4"	B45Y-3-400					1
4	all	B45AB-4	Seal Material	R	perforated disc	316L SS/EPDM	1
4A	all	B45AB-4A	-	-	spring retainer	304 SS	1
4B	all	B45AB-4B	-	-	spring retainer	304 SS	1
4C	all	B45AB-4C	-	-	stem guide	nylon	1
4D	all	B45AB-4D	Seal Material	R	stem and plug	316L SS/EPDM	1

Filter discs (optional) must be used when installed for Accepted Practice 3A 604-05, supplying air under pressure in contact with milk, milk products, and product contact.

5	all	B45ABFD150	-	-	optional filter disc (pack of 50)	1 micron filter	1
		B45ABFD150-200	-	-	optional filter disc (pack of 200)		

Repair Kit: B45AB-RK contains item numbers: 4, 4A, 4B, 4C, and 4D

B45-Series Air Blow Check Valve - Dimensions



Size	A (in)
2"	1.71
2-1/2"	1.80
3"	1.92
4"	2.14

Notes

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