

SB – SPRAY BALL

Applications

Permanently installed spray-ball are used for low pressure internal cold or hot cleaning of horizontal and vertical, vessels and containers of all kinds.

Operating in continuous spraying mode for fluids that can be washed off easily or in pulse-pause mode for fluids which require a reaction time to be washed off. The absence of moving or rotational parts contributes to the reliability and durability of cleaning processes with spray balls.



This type of spray ball offers a fairly low cost, low maintenance option. However relatively low pressures are required resulting in longer cleaning times. Cleaning times of 30 - 40 minutes are not unusual. Atomization can be a problem when pressures exceed 3 Bar. The maximum effective rinse range of this type of ball is between 2 & 3 meters. The spray pattern for each ball is fixed, however there are a wide range of spray patterns available to suite a wide variety of vessel shapes.

Available Configurations:

Standard or Flat Shoulder with follow patterns available:

- A 360° spray angle
- B 180° spray angle top
- C 180° spray angle bottom



Available Connections

- BSP thread
- Clip-on

Material:

Stainless Steel AISI 316L



Operating conditions:

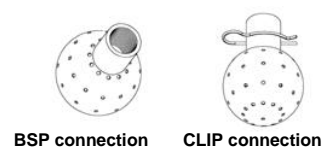
Working pressure: minimum 1 barg up to 7 barg

Working Temperature: up to 250°C

Surface Finish:

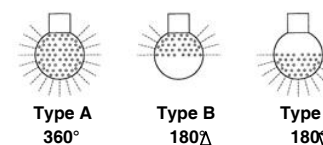
Mill finish Ra<1,0 micron

CODE	Type	Ball Ø	Connections	Hole Ø	Pressure	Flow rate	Action Radius
SBCD 1	A - AX	65 MM	26 X 26 CLIP	2,5 MM	1 BAR	15,7 m ³ /h	1,8 m
	B - BX					10,2 m ³ /h	3,0 m
	C - CX					10,5 m ³ /h	3,2 m
SBCD 2	A - AX	65 MM	40,5X38,5 CLIP	2,5 MM	1 BAR	18,8 m ³ /h	2,6 m
	B - BX					10,2 m ³ /h	2,0 m
	C - CX					11,2 m ³ /h	3,7 m
SBCD 3	A	65 MM	3/4" BSP	2,5 MM	1 BAR	13,2 m ³ /h	1,3 m
	B					8,7 m ³ /h	2,2 m
	C					9,2 m ³ /h	1,5 m
SBCD 4	A	50 MM	40,5X38,5 CLIP	1,6 MM	1 BAR	6,6 m ³ /h	1,9 m
	B					4,0 m ³ /h	2,8 m
	C					3,7 m ³ /h	2,3 m
SBCD 6	A - AX	65 MM	32 X 30 CLIP	2,5 MM	1 BAR	17,9 m ³ /h	2,3 m
	B - BX					9,3 m ³ /h	2,5 m
	C - CX					10,5 m ³ /h	3,2 m
SBCD 7	A	65 MM	38 X 36 CLIP	2,5 MM	1 BAR	18,3 m ³ /h	3,0 m
	B					8,1 m ³ /h	2,4 m
	C					11,6 m ³ /h	4,9 m
SBCD 8	A - AX	50 MM	22 X 20 CLIP	1,6 MM	1 BAR	5,5 m ³ /h	2,5 m
	B - BX					3,4 m ³ /h	3,8 m
	C - CX					3,2 m ³ /h	3,4 m
SBCD 9	A	50 MM	1/2" BSP	1,6 MM	1 BAR	5,4 m ³ /h	2,4 m
	B					3,0 m ³ /h	3,0 m
	C					3,1 m ³ /h	3,3 m
SBCD 10	A - AX	50 MM	28 X 26 CLIP	1,6 MM	1 BAR	7,2 m ³ /h	4,3 m
	B - BX					4,7 m ³ /h	7,2 m
	C - CX					4,7 m ³ /h	7,2 m
SBCD 11	A	90 MM	1 1/4" BSP	2,5 MM	1 BAR	29,8 m ³ /h	3,1 m
	B					12,7 m ³ /h	2,2 m
	C					15,9 m ³ /h	3,4 m
SBCD 12	A - AX	90 MM	38 X 36 CLIP	2,5 MM	1 BAR	24,2 m ³ /h	2,0 m
	B - BX					13,4 m ³ /h	2,4 m
	C - CX					15,9 m ³ /h	3,4 m
SBCD 14	A	120 MM	60,3 X 52,8 CLIP	2 MM	1 BAR	19,0 m ³ /h	2,0 m
	B					10,2 m ³ /h	2,3 m
	C					8,9 m ³ /h	1,7 m
SBCD 15	A - AX	40 MM	22 X 20 CLIP	1,6 MM	1 BAR	3,7 m ³ /h	3,8 m
	B - BX					2,3 m ³ /h	5,5 m
	C - CX					2,3 m ³ /h	5,9 m
SBCD 16	A - AX	40 MM	22 X 20 CLIP	1,3 MM	1 BAR	5,1 m ³ /h	4,7 m
	B - BX					3,0 m ³ /h	6,4 m
	C - CX					3,1 m ³ /h	7,0 m
SBCD 17	A - AX	28 MM	1/4" BSP	1,3 MM	1 BAR	1,8 m ³ /h	1,0 m
	B - BX					1,2 m ³ /h	1,6 m
	C - CX					1,4 m ³ /h	2,2 m



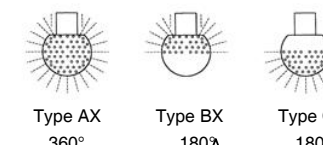
BSP connection CLIP connection

STANDARD VERSION



Type A 360° Type B 180° Type C 180°

FLAT SHOULDER VERSION



Type AX 360° Type BX 180° Type CX 180°

How to Order (Part Number)

The precise identification of each different head, including size, spray pattern and pipe connection is only obtained combining the different option coding into a complete code. Please take note of the following examples above

Clip-on connection

This type can be mounted onto a fixed pipe entering the tank shell by means of a simple spring retaining pin, and offers a simple way for a quick removal of the head from its location, in those applications where easily performed cleaning is required. The clip end of the head will accept inside a standard 1" ISO Tube, with 25 mm outer diameter.

BSP connection

This type can be mounted onto a fixed BSP Threaded pipe on the tank shell

Additional information and more at: sales@cskbio.com
The specifications or design are subject to change without prior notice.