



Static tank cleaning ball LPS

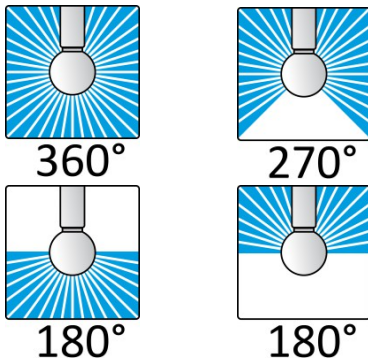
Technical data sheet

The static tank cleaning balls offer very high manufacturing quality and a wide range of materials. A large number of options and solutions are also available. Suitable for tanks with a volume of 0.1 to 10 m³.

Applications

Can be used in the beverage industry, milk production, food industry, chemical industry, pharmaceutical industry

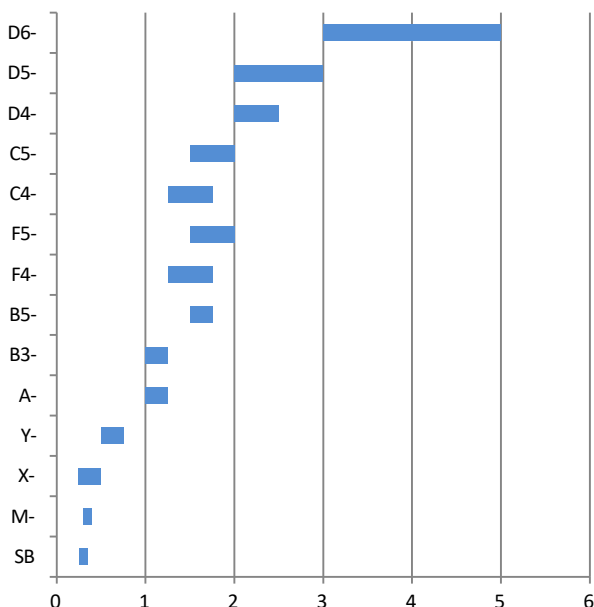
Spray pattern:



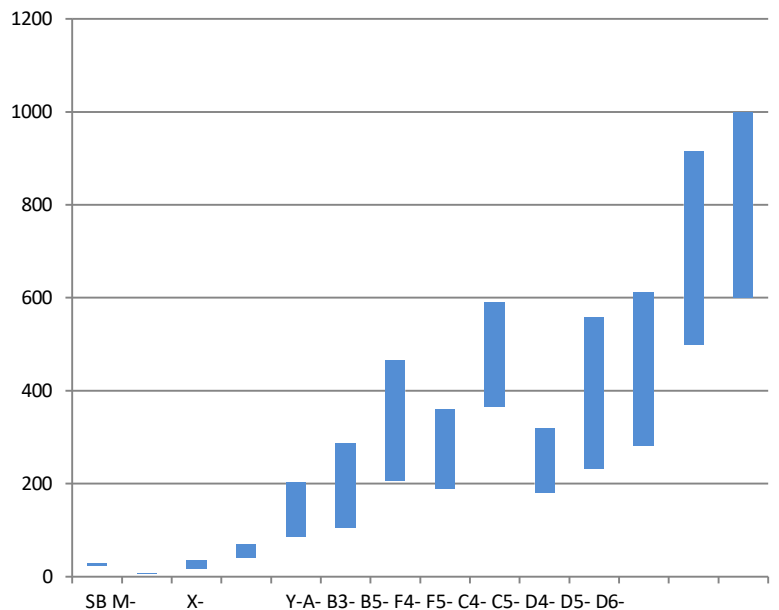
Specifications

Cleaning radius max:	5 m
Container opening min:	ø 65 mm
Working pressure range:	1 to 2.5 bar
Volume flow min / max:	10 / 1000 l/min
Operating temperature max:	95° C
Standard materials:	1.4571
Optionally available:	1.4435 / HC22 / PTFE FDA / PTFE with carbon / PTFE with graphite
Can be used in EX areas:	Yes
Available certificates:	2.2 / 3.1

Cleaning radius [m]

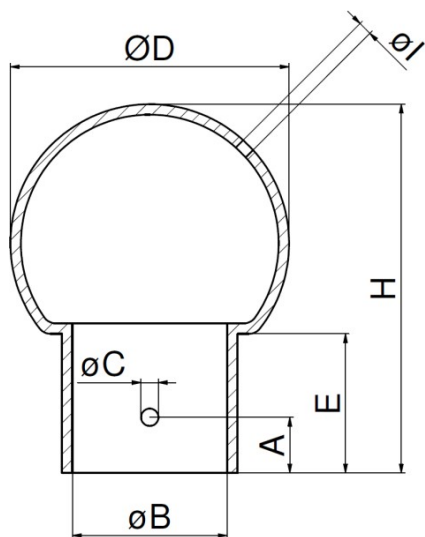


Water consumption [l/min]



Static tank cleaning ball LPS

Technical data sheet



Dimensions in mm

Type	DIN	A	Ø B	Ø C	Ø D	E	H	Ø I	Installation depth
SB	-	-	8.2	-	18	16	32	0.8	200
M1	8	7.6	8.2	1.8	20	15	32.5	0.8	200
X1	10	9	12.2	2.2	25	17	37.5	1.2	300
Y1	15	9	18.2	2.2	30	18	42	1.6	300-400
A2	20	9	22.2	2.5	40	21	53	2	500
B3	25	18	28.2	2.8	64	35	90	2.1	500-700
B5	25	18	28.2	2.8	64	35	90	3	500-700
F4	32	18	34.3	2.8	64	35	90	2.2	500-700
F5	32	18	34.3	2.8	64	35	90	3	500-700
C4	40	18	40.3	2.8	64	35	90	2.2	500-700
C5	40	25	52.3	2.8	64	35	90		600-800
D4	50	25	52.3	3.2	90	47	121.5		600-800
D5	50	25	52.3	3.2	90	47	121.5		600-800
D6	50	25	52.3	3.2	90	47	121.5		600-800

Order help

= please tick to

selectX = option not available

Type	Connection	360°	180° upward s	180° downward s	270° upward s	4571	4435	HC-22	PTFE*	PTFE LM*	High- gloss z- polished	Electro- polished
SB	ZA:	<input type="checkbox"/> 2420	x	x	x	x	<input type="checkbox"/>	x	x	x	<input type="checkbox"/>	x
M1-1	G,CO,ZA:	<input type="checkbox"/> 2419	x	x	x	x	<input type="checkbox"/>	<input type="checkbox"/>	x	x	<input type="checkbox"/>	<input type="checkbox"/>
X1-	CO	<input type="checkbox"/> 2101	<input type="checkbox"/> 2201	<input type="checkbox"/> 2301	x	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X1-	G 1/8"	<input type="checkbox"/> 2102	<input type="checkbox"/> 2202	<input type="checkbox"/> 2302	x	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y1-	CO	<input type="checkbox"/> 2103	<input type="checkbox"/> 2203	<input type="checkbox"/> 2303	x	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y1-	G 1/4"	<input type="checkbox"/> 2104	<input type="checkbox"/> 2203	<input type="checkbox"/> 2304	x	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y1-	G 3/8"	<input type="checkbox"/> 2105	<input type="checkbox"/> 2205	<input type="checkbox"/> 2305	x	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A2-	CO	<input type="checkbox"/> 2106	<input type="checkbox"/> 2206	<input type="checkbox"/> 2306	<input type="checkbox"/> 2401	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A2-	G 1/2"	<input type="checkbox"/> 2107	<input type="checkbox"/> 2207	<input type="checkbox"/> 2307	<input type="checkbox"/> 2402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B3-	CO	<input type="checkbox"/> 2108	<input type="checkbox"/> 2208	<input type="checkbox"/> 2308	<input type="checkbox"/> 2403	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B3-	G 1"	<input type="checkbox"/> 2109	<input type="checkbox"/> 2209	<input type="checkbox"/> 2309	<input type="checkbox"/> 2404	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B5-	CO	<input type="checkbox"/> 2110	<input type="checkbox"/> 2210	<input type="checkbox"/> 2310	<input type="checkbox"/> 2405	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B5-	G 1"	<input type="checkbox"/> 2111	<input type="checkbox"/> 2211	<input type="checkbox"/> 2311	<input type="checkbox"/> 2406	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F4-	CO	<input type="checkbox"/> 2112	<input type="checkbox"/> 2212	<input type="checkbox"/> 2312	<input type="checkbox"/> 2407	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F4-	G 1"	<input type="checkbox"/> 2113	<input type="checkbox"/> 2213	<input type="checkbox"/> 2313	<input type="checkbox"/> 2408	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F5-	CO	<input type="checkbox"/> 2114	<input type="checkbox"/> 2214	<input type="checkbox"/> 2314	<input type="checkbox"/> 2409	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F5-	G 1"	<input type="checkbox"/> 2115	<input type="checkbox"/> 2215	<input type="checkbox"/> 2315	<input type="checkbox"/> 2410	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C4-	CO	<input type="checkbox"/> 2116	<input type="checkbox"/> 2216	<input type="checkbox"/> 2316	<input type="checkbox"/> 2411	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C4-	G 1"	<input type="checkbox"/> 2117	<input type="checkbox"/> 2217	<input type="checkbox"/> 2317	<input type="checkbox"/> 2412	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5-	CO	<input type="checkbox"/> 2118	<input type="checkbox"/> 2218	<input type="checkbox"/> 2318	<input type="checkbox"/> 2413	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5-	G 1"	<input type="checkbox"/> 2119	<input type="checkbox"/> 2219	<input type="checkbox"/> 2319	<input type="checkbox"/> 2414	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D4-	CO	<input type="checkbox"/> 2120	<input type="checkbox"/> 2220	<input type="checkbox"/> 2320	<input type="checkbox"/> 2415	<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
D4-	G 2"	<input type="checkbox"/> 2121	<input type="checkbox"/> 2221	<input type="checkbox"/> 2321	<input type="checkbox"/> 2416	<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
D5-	CO	<input type="checkbox"/> 2122	<input type="checkbox"/> 2222	<input type="checkbox"/> 2322	<input type="checkbox"/> 2417	<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
D5-	G 2"	<input type="checkbox"/> 2123	<input type="checkbox"/> 2223	<input type="checkbox"/> 2323	<input type="checkbox"/> 2418	<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
D6-	CO	<input type="checkbox"/> X	<input type="checkbox"/> 2224	<input type="checkbox"/> X	<input type="checkbox"/> X	<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
D6-	G 2"	<input type="checkbox"/> X	<input type="checkbox"/> 2225	<input type="checkbox"/> X	<input type="checkbox"/> X	<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>

Legend

CO: Clip On

G: Thread

ZA: For welding on

* For Mat. PTFE, the high-gloss polished and

electro-
polished

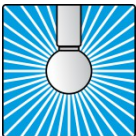
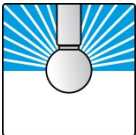

options are not available.

V14/05

Static tank cleaning ball LPS

Technical data sheet

(extended data sheet types and performance)

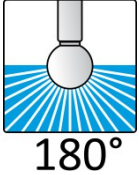
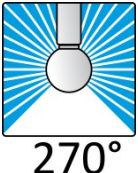

Spray pattern	Type	Nominal width Inner diameter in mm Thread R (BSP)	Article number	Spray circuit (tank ø) m	Throughput quantity m ³ / h		Through-knife D mm	Height H mm
					1bar	2.5bar		
Full spray angle 360°  360°	M1-1	8.2 R-AG 1/8"	81.2419.00 81.2419.02	max. 0.5	0.5	*	20	32.5
	X1-1	12.2 R-IG 1/8"	81.2101.00 81.2102.00	0,5 - 1,0	2,1	*	24	37,5
	Y1-1	18.2 R-IG 1/4" R-IG 3/8"	81.2103.00 81.2104.00 81.2105.00	1,0 - 1,5	4,2	*	30	42
	A2-1	22.2 R-IG 1/2"	81.2106.00 81.2107.00	2,0 - 2,5	7,7	12,2	40	53
	B3-1	28.2 R-IG 1"	81.2108.00 81.2109.00	2,0 - 3,0	11,0	17,3	64	90
	B5-1	28.2 R-IG 1"	81.2110.00 81.2111.00	3,0 - 4,0	17,5	28,1	64	90
	F4-1	34.2 R-IG 1"	81.2112.00 81.2113.00	2,5 - 3,5	13,5	22,0	64	90
	F5-1	34.2 R-IG 1"	81.2114.00 81.2115.00	3,0 - 4,0	21,7	35,5	64	90
	C4-1	40.3 R-IG 1"	81.2116.00 81.2117.00	2,5 - 3,5	11,8	19,2	64	90
	C5-1	40.3 R-IG 1"	81.2118.00 81.2119.00	3,0 - 4,0	22,8	36,8	64	90
	D4-1	52.3 R-IG 2"	81.2120.00 81.2121.00	4,0 - 5,0	28,6	47,1	90	121,5
	D5-1	52.3 R-IG 2"	81.2122.00 81.2123.00	6,0	49,1	78,7	90	121,5
Half spray angle 180° upwards  180° 	X1-2	12.2 R-IG 1/8"	81.2201.00 81.2202.00	0,5 - 1,0	1,5	*	24	37,5
	Y1-2	18.2 R-IG 1/4" R-IG 3/8"	81.2203.00 81.2204.00 81.2205.00	1,0 - 1,5	2.1	*	30	42
	A2-2	22.2 R-IG 1/2"	81.2206.00 81.2207.00	2,0 - 2,5	5,6	8,6	40	53
	B3-2	28.2 R-IG 1"	81.2208.00 81.2209.00	2,5 - 3,0	8,7	12,8	64	90
	B5-2	28.2 R-IG 1"	81.2210.00 81.2211.00	3,0 - 4,0	14,2	23,0	64	90
	F4-2	34.2 R-IG 1"	81.2212.00 81.2213.00	2,5 - 3,5	9,8	15,6	64	90
	F5-2	34.2 R-IG 1"	81.2214.00 81.2215.00	3,0 - 4,0	16,0	26,7	64	90
	C4-2	40.3 R-IG 1"	81.2216.00 81.2217.00	2,5 - 3,5	9,6	14,8	64	90
	C5-2	40.3 R-IG 1"	81.2218.00 81.2219.00	3,0 - 4,0	14,9	24,8	64	90
	D4-2	52.3 R-IG 2"	81.2220.00 81.2221.00	4,0 - 4,5	19,5	30,6	90	121,5
	D5-2	52.3 R-IG 2"	81.2222.00 81.2223.00	6,0	31,0	51,0	90	121,5
	D6-2	52.3 R-IG 2"	81.2224.00 81.2225.00	10,0	36,1	60,0	90	121,5

* Cleaning not recommended at this value (risk of fogging)

Static tank cleaning ball LPS

Technical data sheet

(extended data sheet types and performance)

Spray pattern	Type	Nominal width	Article number	Spray circuit (tank ø)	Throughput quantity m ³ / h		Through-knife	Height
					1bar	2.5bar		
				m			D mm	H mm
Half spray angle 180° downwards 	X1-3	12.2 R-IG 1/8"	81.2301.00 81.2302.00	0,5 - 1,0	1.1	*	24	37.5
	Y1-3	18.2 R-IG 1/4" R-IG 3/8"	81.2303.00 81.2304.00 81.2305.00	1,0 - 1,5	2.5	*	30	42
	A2-3	22.2 R-IG 1/2"	81.2306.00 81.2307.00	2,0 - 2,5	6,3	9,8	40	53
	B3-3	28.2 R-IG 1"	81.2308.00 81.2309.00	2,0 - 3,0	7,0	10,9	64	90
	B5-3	28.2 R-IG 1"	81.2310.00 81.2311.00	3,0 - 4,0	12,4	20,0	64	90
	F4-3	34.2 R-IG 1"	81.2312.00 81.2313.00	2,5 - 3,5	7,8	12,5	64	90
	F5-3	34.2 R-IG 1"	81.2314.00 81.2315.00	3,0 - 4,0	13,7	22,0	64	90
	C4-3	40.3 R-IG 1"	81.2316.00 81.2317.00	2,5 - 3,5	10,4	16,2	64	90
	C5-3	40.3 R-IG 1"	81.2318.00 81.2319.00	3,0 - 4,0	14,0	22,2	64	90
	D4-3	52.3 R-IG 2"	81.2320.00 81.2321.00	4,0 - 4,5	17,0	28,0	90	121.5
	D5-3	52.3 R-IG 2"	81.2322.00 81.2323.00	6,0	30,7	49,7	90	121.5
Spray angle 270° upwards 	A2-4	22.2 R-IG 1/2"	81.2401.00 81.2402.00	2,0 - 2,5	7,5	11,8	40	53
	B3-4	28.2 R-IG 1"	81.2403.00 81.2404.00	2,0 - 3,0	10,0	15,8	64	90
	B5-4	28.2 R-IG 1"	81.2405.00 81.2406.00	3,0 - 4,0	16,0	26,2	64	90
	F4-4	34.2 R-IG 1"	81.2407.00 81.2408.00	2,5 - 3,5	11,4	18,6	64	90
	F5-4	34.2 R-IG 1"	81.2409.00 81.2410.00	3,0 - 4,0	20,0	32,6	64	90
	C4-4	40.3 R-IG 1"	81.2411.00 81.2412.00	2,5 - 3,5	10,9	16,6	64	90
	C5-4	40.3 R-IG 1"	81.2413.00 81.2414.00	3,0 - 4,0	18,0	30,0	64	90
	D4-4	52.3 R-IG 2"	81.2415.00 81.2416.01	4,0 - 4,5	27,7	45,0	90	121.5
	D5-4	52.3 R-IG 2"	81.2417.00 81.2418.00	6,0	45,0	74,3	90	121.5
Special version 	B - H	DIN 25	on request	2,0	6,0	9,4	64	90
	F - H	DIN 32	on request	3,0	6,6	10,3	64	90
	C - H	DIN 40	on request	4,0	6,9	10,4	64	90

* Cleaning not recommended at this value (risk of fogging)

