

TANK CLEANING NOZZLES

- Cleaning
- Cooling
- Dust control
- Foam control
- Gas treatment
- Fire protection
- Desuperheating
- Surface spraying
- Water treatment
- Chemical process

ENRICHED BY **EXPERIENCE**

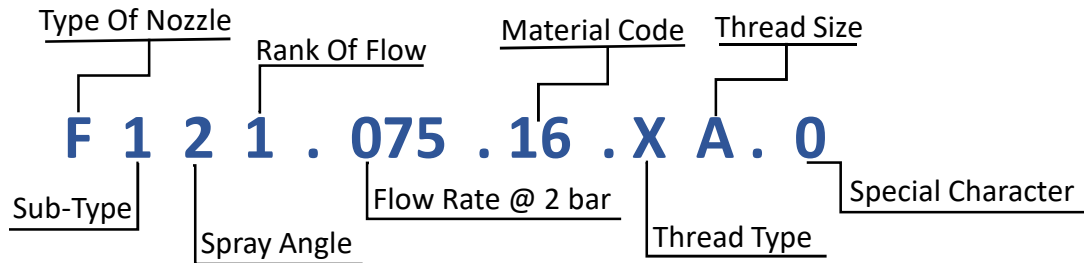
EMPOWERED BY **RESEARCH**



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Product Coding System



Code	Type of Spray Nozzle
F	Flat Spray Nozzle
E	Full Cone Spray Nozzle
H	Hollow Cone Spray Nozzle
T	Tank Cleaning Nozzle
S	Straight Jet Nozzle
A	Air Atomising Nozzle
G	Fittings / Accessories

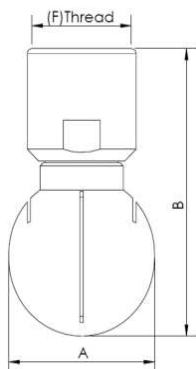
Code	Spray Angle
1	15
2	30
3	45
4	60
5	75
6	90
7	105
8	120
A	180
B	270
C	360
S	Customised Angle

Code	Material
MS	Mild Steel
04	SS 304 / 304L
16	SS 316 / 316L
31	SS 310
41	SS 410
CI	Cast Iron
BR	Brass
AL	Aluminum
HA	Hastelloy C / B
TI	Titanium
MO	Monel
SC	Silicone Carbide
PT	Teflon / PTFE
PP	PP - Polypropylene
NY	Nylon
DE	Delrin
PV	PVC
DF	PVDF
PE	Polyethylene

Code	Thread Type
X	BSPP
Y	BSPT
Z	NPT
F	Flanged

Code	Thread Size
A	1/8"
B	1/4"
C	3/8"
D	1/2"
E	3/4"
F	1"
G	1 1/4"
H	1 1/2"
J	2"
K	2 1/2"
L	3"
M	3 1/2"
N	4"
P	5"
Q	6"
R	7"
T	8"
U	9"
V	10"

Self Rotating slotted spray balls are available with different connections. BSPP Female threads as standard and Clip-on, Weld-on, Tri-clamp connection on request. Cleaning Fluid Drives the spray head. Available in coverage of 270° 360°



Thread	A	B
1/8" BSPP	21	59
1/4" BSPP	21	59
3/8" BSPP	25	71
1/2" BSPP	34	79
3/4" BSPP	44	89
1" BSPP	44	94
1 1/4" BSPP	49	99
1 1/2" BSPP	64	120

- Self Rotating
- Efficient slot design
- Modern bearing construction
- Double ball bearing
- Material : SS316L
- Max Temp.: 140° C

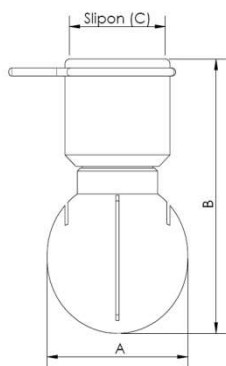
Required line filter: 100 micron

SPRAY ANGLE	END CONNECTION								LPM			
	1/8" BSPP	1/4" BSPP	3/8" BSPP	1/2" BSPP	3/4" BSPP	1" BSPP	1 1/4" BSPP	1 1/2" BSPP	PRESSURE(bar)			
									1	1.5	2	3
360°												
T1C2.120	XA	XB							8.50	10.50	12.00	15.00
T1C2.150	XA	XB							10.50	13.00	15.00	18.50
T1C2.190	XA	XB	XC						13.50	16.50	19.00	23.50
T1C2.290			XC						20.50	25.00	29.00	36.00
T1C2.390			XC	XD					27.50	34.00	39.00	48.00
T1C2.490				XD					34.50	42.50	49.00	60.50
T1C2.590				XD					42.00	51.00	59.00	73.00
T1C2.690				XD	XE				49.00	60.00	69.00	85.00
T1C2.790					XE				56.00	68.50	79.00	97.50
T1C2.890					XE				63.00	77.50	89.00	110.00
T1C2.990					XE	XF			70.00	86.00	99.00	122.00
T1C3.109					XE	XF			77.50	95.00	109.00	135.00
T1C3.119						XF			84.50	103.00	119.00	147.00
T1C3.129						XF			91.50	112.00	129.00	159.00
T1C3.139						XF			98.50	121.00	139.00	172.00
T1C3.149							XG		106.00	130.00	149.00	184.00
T1C3.169							XG		120.00	147.00	169.00	209.00
T1C3.189							XG		134.00	165.00	189.00	233.00
T1C3.209							XG		148.00	182.00	209.00	258.00
T1C3.229								XH	163.00	199.00	229.00	283.00
T1C3.249								XH	177.00	217.00	249.00	307.00
T1C3.269								XH	191.00	234.00	269.00	332.00



Pin type Self Rotating slotted spray balls, designed for equipment's with high vibration. Cleaning Fluid Drives the spray head. Available in coverage of 270° 360°

T2 Series



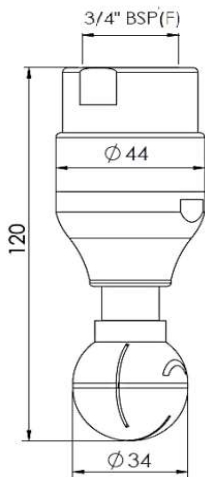
Thread	A	B
1/2" (ID 12.70 mm)	21	51
5/8" (ID 15.90 mm)	25	71
3/4" (ID 19.05 mm)	34	79
1" (ID 25.40 mm)	44	89
1 1/4" (ID 31.75 mm)	44	94
1 1/2" (ID 38.10 mm)	64	120
2" (ID 50.80 mm)	64	120

- Self Rotating
- Efficient slot design
- Modern bearing construction
- Double ball bearing
- Material : SS316l
- Max Temp.: 140° C

Required line filter: 100 micron

SPRAY ANGLE	END CONNECTION							LPM			
	1/2" (ID 12.70 mm)	5/8" (ID 15.90 mm)	3/4" (ID 19.05 mm)	1" (ID 25.40 mm)	1 1/4" (ID 31.75 mm)	1 1/2" (ID 38.10 mm)	2" (ID 50.80 mm)	PRESSURE(bar)			
360°								1	1.5	2	3
T2C2.120	12							8.50	10.50	12.00	15.00
T2C2.150	12							10.50	13.00	15.00	18.50
T2C2.190	12	15						13.50	16.50	19.00	23.50
T2C2.290		15						20.50	25.00	29.00	36.00
T2C2.390		15	19					27.50	34.00	39.00	48.00
T2C2.490			19					34.50	42.50	49.00	60.50
T2C2.590			19					42.00	51.00	59.00	73.00
T2C2.690			19	25				49.00	60.00	69.00	85.00
T2C2.790				25				56.00	68.50	79.00	97.50
T2C2.890				25				63.00	77.50	89.00	110.00
T2C2.990				25	31			70.00	86.00	99.00	122.00
T2C3.109				25	31			77.50	95.00	109.00	135.00
T2C3.119					31			84.50	103.00	119.00	147.00
T2C3.129					31			91.50	112.00	129.00	159.00
T2C3.139					31			98.50	121.00	139.00	172.00
T2C3.149						38		106.00	130.00	149.00	184.00
T2C3.169						38		120.00	147.00	169.00	209.00
T2C3.189						38		134.00	165.00	189.00	233.00
T2C3.209						38		148.00	182.00	209.00	258.00
T2C3.229							50	163.00	199.00	229.00	283.00
T2C3.249							50	177.00	217.00	249.00	307.00
T2C3.269							50	191.00	234.00	269.00	332.00

T3 Series



High impact Self Rotating slotted spray balls with controlled rotation ranging from 40 to 70 RPM. Slide bearing and controlled rotation makes it more reliable and durable. Cleaning Fluid Drives the spray head. Available in coverage of 270° 360°

- Self Rotating
- Efficient slot design
- Slide bearing (PTFE)
- Operating Pressure 5 – 10 bar
- Material : SS316L
- Max Temp.: 80° C

Required line filter: 100 micron

SPRAY ANGLE	END CONNECTION			LPM			Tank dia Mtrs.
	3/8" BSPP (F)	1/2" BSPP (F)	3/4" BSPP (F)	PRESSURE(bar)			
				5	8	10	
360°							
T3C2.650	XC			65	82	95	1.0 – 2.0
T3C2.940		XD		94	119	134	1.5 – 2.5
T3C3.125		XD	XE	125	158	179	2.0 – 3.0
T3C3.141			XE	141	179	202	2.5 – 3.5
T3C3.157			XE	157	199	225	4.0 -5.0



Self Rotating slotted spray balls, This nozzles are highly effective in vertical duct cleaning. Cleaning Fluid Drives the spray head. Available in coverage of 270° 360°

T4 Series

- Self Rotating
- Efficient slot design
- Double ball bearing
- Material : SS316L
- Max Temp.: 140° C

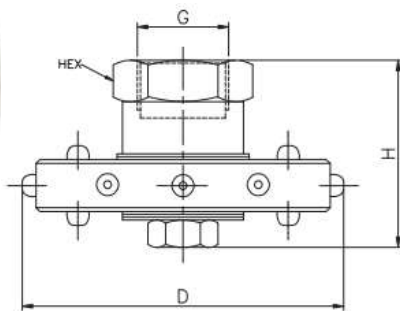
Required line filter: 100 micron

SPRAY ANGLE	END CONNECTION	LPM				Duct dia.
	1/2" BSPP (F)	PRESSURE(bar)				
		1.0	1.5	2.0	3.0	
360°						
T4C2.290	XD	21	25	29	36	400 mm
T4C2.390	XD	28	34	39	48	
T4C2.490	XD	35	43	49	61	



Self Rotating flat spray Tank cleaning nozzles, designed for large and medium size Process equipment's and tanks, Cleaning Fluid Drives the spray head. Available in coverage of 180°, 270° & 360°

T5 Series



- Self Rotating
- Material : SS316l
- Slide bearing (PTFE)
- Max Temp.: 90° C

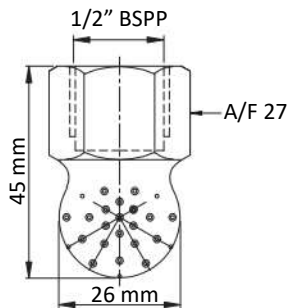
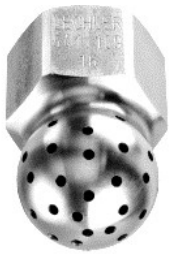
Thread	H	D	HEX
1" BSPP	62.5	117	41
2" BSPP	97	131	71
3" BSPP	116.5	194	100

- Required line filter: 100 micron
- Recommended Pressure : 3 bar

SPRAY ANGLE	END CONNECTION			LPM				
	1" BSPP	2" BSPP	3" BSPP	PRESSURE(bar)				
				1	2	3	5	7
180°								
T5A3.140	XF			99.05	140.00	171.50	221.20	261.80
T5A3.248	XF			175.46	248.00	303.80	391.84	463.76
T5A3.275	XF			194.56	275.00	336.88	434.50	514.25
T5A3.324		XJ		229.23	324.00	396.90	511.92	605.88
T5A3.375		XJ		265.31	375.00	459.38	592.50	701.25
T5A3.625		XJ		442.19	625.00	765.63	987.50	1168.75
T5A3.800			XL	566.00	800.00	980.00	1264.00	1496.00
T5A3.950			XL	672.13	950.00	1163.75	1501.00	1776.50
T5A4.1100			XL	778.25	1100.00	1347.50	1738.00	2057.00

SPRAY ANGLE	END CONNECTION			LPM				
	1" BSPP	2" BSPP	3" BSPP	PRESSURE(bar)				
				1	2	3	5	7
270°								
T5B3.140	XF			99.05	140.00	171.50	221.20	261.80
T5B3.248	XF			175.46	248.00	303.80	391.84	463.76
T5B3.275	XF			194.56	275.00	336.88	434.50	514.25
T5B3.324		XJ		229.23	324.00	396.90	511.92	605.88
T5B3.375		XJ		265.31	375.00	459.38	592.50	701.25
T5B3.625		XJ		442.19	625.00	765.63	987.50	1168.75
T5B3.800			XL	566.00	800.00	980.00	1264.00	1496.00
T5B3.950			XL	672.13	950.00	1163.75	1501.00	1776.50
T5B4.1100			XL	778.25	1100.00	1347.50	1738.00	2057.00

SPRAY ANGLE	END CONNECTION			LPM				
	1" BSPP	2" BSPP	3" BSPP	PRESSURE(bar)				
				1	2	3	5	7
360°								
T5C3.140	XF			99.05	140.00	171.50	221.20	261.80
T5C3.248	XF			175.46	248.00	303.80	391.84	463.76
T5C3.275	XF			194.56	275.00	336.88	434.50	514.25
T5C3.324		XJ		229.23	324.00	396.90	511.92	605.88
T5C3.375		XJ		265.31	375.00	459.38	592.50	701.25
T5C3.625		XJ		442.19	625.00	765.63	987.50	1168.75
T5C3.800			XL	566.00	800.00	980.00	1264.00	1496.00
T5C3.950			XL	672.13	950.00	1163.75	1501.00	1776.50
T5C4.1100			XL	778.25	1100.00	1347.50	1738.00	2057.00

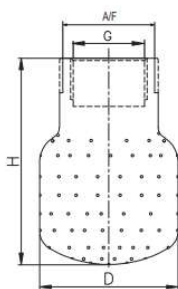


Static Spray Ball, compact design with effective solid jets. Available in coverage of 120° & 240°
Used for cleaning and rinsing of small drums and small size tanks, also to use with saturated steam.

T6 Series

- Material : SS316l / PTFE
- Max Temp.: 200° C

SPRAY ANGLE	END CONNECTION	LPM				
		PRESSURE(bar)				
		1	2	3	5	7
240°	1/2" BSPP					
T6S2.180	XD	12.94	18.00	22.05	28.44	33.66
T6S2.280	XD	20.13	28.00	34.30	44.24	52.36
T6S2.520	XD	37.38	52.00	63.70	82.16	97.24
T6S2.800	XD	57.50	80.00	98.00	126.40	149.60
T6S3.100	XD	71.88	100.00	122.50	158.00	187.00



Thread	H	D	HEX
3/4" BSPP	78	40.5	28
1" BSPP	90	60	40
1 1/4" BSPP	116	70	50
1 1/2" BSPP	116	70	50
2" BSPP	152	100	62

- COVERAGE : 180° & 360°
- Material : SS316l / PTFE
- Max Temp.: 200° C

SPRAY ANGLE	END CONNECTION					LPM				
	3/4" BSPP	1" BSPP	1 1/4" BSPP	1 1/2" BSPP	2" BSPP	PRESSURE(bar)				
						1	2	3	5	7
180°										
T6A3.100	XE					71.88	100.00	122.50	158.00	187.00
T6A3.140		XF				100.63	140.00	171.50	221.20	261.80
T6A3.190		XF	XG			136.56	190.00	232.75	300.20	355.30
T6A3.250			XG	XH		179.69	250.00	306.25	395.00	467.50
T6A3.325				XH		233.59	325.00	398.13	513.50	607.75
T6A3.450					XJ	323.44	450.00	551.25	711.00	841.50

SPRAY ANGLE	END CONNECTION					LPM				
	3/4" BSPP	1" BSPP	1 1/4" BSPP	1 1/2" BSPP	2" BSPP	PRESSURE(bar)				
						1	2	3	5	7
360°										
T6C3.100	XE					71.88	100.00	122.50	158.00	187.00
T6C3.140		XF				100.63	140.00	171.50	221.20	261.80
T6C3.190		XF	XG			136.56	190.00	232.75	300.20	355.30
T6C3.250			XG	XH		179.69	250.00	306.25	395.00	467.50
T6C3.325				XH		233.59	325.00	398.13	513.50	607.75
T6C3.450					XJ	323.44	450.00	551.25	711.00	841.50