DOCUMENTATION TECHNIQUE

Têtes de lavage et équipements de nettoyage

Caractéristiques, plans et instructions du fabricant.
Pour le choix de votre équipement et la préparation d'une demande de devis.

GEDO FRANCE

04 85 88 02 75

tete@gedo.fr

tetelavage.gedo.fr

565 avenue du Prado - 13008 Marseille - France

HydroWhirl® Stinger

(HWS2) Reactionary Force Tank Cleaning Nozzle



DESIGN FEATURES

- Patent-pending no-weld design eliminates weak points and uneven surfaces
- Centrally located bearing assembly for even balance and quality spray propagation
- Uniform spray, even at low pressures
- Compact size fits openings with inside diameters between 23 mm and 47 mm, including tri-clamp and flanged connections
- Unique pipe thread technology self flushes to reduce contamination and bacteria growth
- Zirconia ceramic bearings for extreme chemical resistance and long service life*
- 32 Ra surface finish ideal for sanitary applications
- *Note: Rated for use with liquids only. Compressed air, steam, or other gasses should never be run through the nozzle as the bearings are lubricated by the process media.

SPRAY CHARACTERISTICS

- Vigorous spray action
- Optimum cleaning performance @ 3 bar

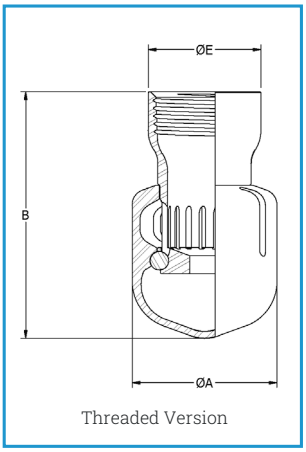
Spray Angles: Complete 360° spray coverage

Flow Rates: 4.15 to 380 l/min

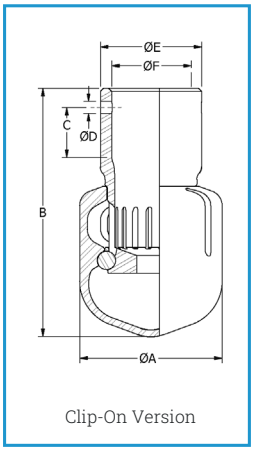
Max Temperature: 200 °F/93 °C

Filtration:

- Line strainer with a mesh size 0.07 mm/200 mesh for nozzle number HWS2-4 and smaller
- Line strainer with a mesh size 0.10 mm/150 mesh for nozzle number HWS2-7.5 and larger



Threaded Version



Clip-On Version

Clip-On HWS2 Dimensions (mm)

Tube Size	A	B	C	D	E	F	Wt (g)	Min Tank Entry Dia*
1"	46.7	86.4	21.3	3.96	33.5	25.4	340	46.7
3/4"	34.3	72.2	12.7	2.18	26.9	19.0	198	34.3
1/2"	21.6	48.3	12.4	2.18	21.3	12.7	85	30.2
3/8"	15.2	34.9	8.61	2.18	14.2	9.52	23	22.9

**Minimum tank entry diameter does not include the clip.*

Threaded HWS2 Dimensions (mm)

Pipe Size	A	B	E	Wt (g)	Min Tank Entry Dia
1"	46.7	80.0	36.6	298	46.7
3/4"	34.3	69.1	29.2	146	34.3
1/2"	34.3	60.3	24.1	134	34.3
3/8"	21.6	45.2	19.1	40	21.6
1/8"	15.2	31.7	12.8	28	15.2

Dimensions are approximate. Check with BETE for critical dimension applications.

HWS2 Flow Rates

Materials: 316L Stainless Steel Body, Ceramic Bearings

Connection Type	Nozzle Number	Spray Angle	Flow Rate (l/min) @ Differential Pressure (bar)					Max Free Passage	Coverage Dia @ 2 bar
			0.7	1	2	3	4		
			bar	bar	bar	bar	bar	mm	m
1/8" FNPT, BSPP 3/8" Tube Clip-On	HWS2-2.1	360°	4.15	4.92	6.83	8.27	9.48	0.64	0.6
	HWS2-4		7.80	9.27	13.0	15.8	18.1	0.99	2
	HWS2-7.5		14.6	17.4	24.3	29.6	34.0	1.60	2
3/8" FNPT, BSPP 1/2" Tube Clip-On	HWS2-10	360°	18.8	22.6	32.1	39.5	45.7	0.61	2
	HWS2-12		23.7	28.1	39.0	47.3	54.2	0.99	3
	HWS2-17		32.8	39.1	54.9	67.1	77.3	2.00	3
1/2" FNPT, BSPP	HWS2-20	360°	39.0	46.3	64.8	78.9	90.6	0.99	3
	HWS2-26		49.0	58.8	83.6	103	119	1.63	3
3/4" FNPT, BSPP 3/4" Tube Clip-On	HWS2-20	360°	39.0	46.3	64.8	78.9	90.6	0.99	3
	HWS2-26		49.0	58.8	83.6	103	119	1.63	3
1" FNPT, BSPP 1" Tube Clip-On	HWS2-33	360°	63.5	75.7	107	130	150	0.79	3
	HWS2-55		105	126	177	217	251	1.63	4
	HWS2-66		127	152	213	260	300	2.39	4
	HWS2-84		165	195	272	331	380	3.18	4

Flow rates represent threaded connections with a 360° spray angle.
Flow rates may vary for other connection types.

TANK CLEANING

TO ORDER: specify pipe size, connection type, nozzle number, spray angle, and material.