

Synergy Flotronics - NSP Series Nozzle Catalogue

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OVERVIEW

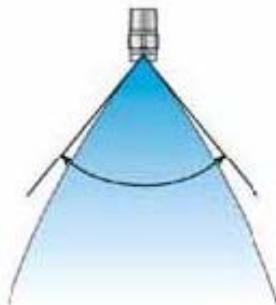
1. Assurance of precision

Tolerance of flow rate and spray angle:

a. Tolerance of flow rate $\pm 5\%$



b .Tolerance of spray angle $\pm 5\%$



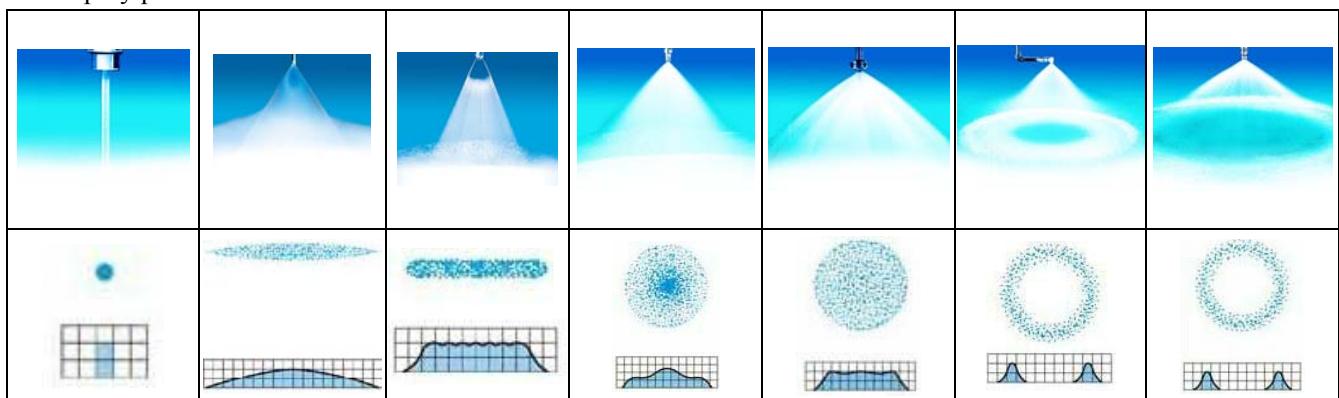
c .Tolerance os solid stream $\pm 3\%$



2. Elements of nozzles

There're some elements need to take into consideration when choosing a nozzle, they're the spray pattern, flow rate, spray angle, coverage, distribution and its wear life.

1. Spray patterns



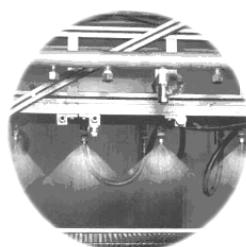
2. Testing machines and testing methods



Force of impact test



Spraying performance test



Working performance test



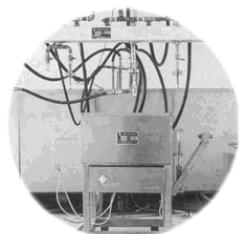
High-pressure working performance test



Distribution test



Spray angle and distribution test



High temperature performance test

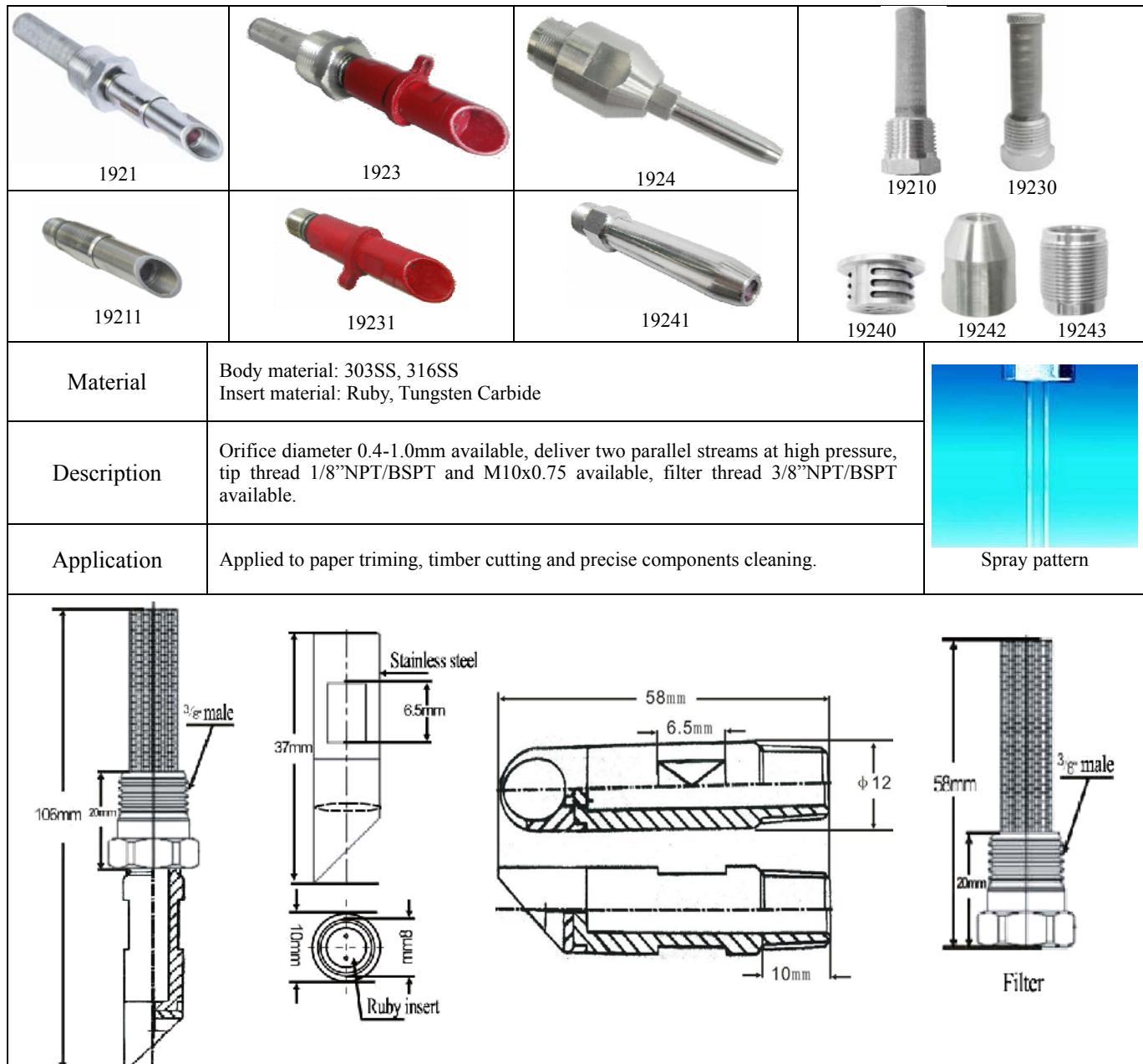
3. Materials

Category	Material	Code	Category	Material	Code
Metal	Copper	Cu	Plastic	PVC	PVC
	Brass	BS		PP	PP
	Bronze	Be		PPO	PPO
	Brass Chome Plated	Bc		Nylon	Ny
	Brass Nickel Plated	Bn		ABS	ABS
	303SS	303SS		PTFE	PTFE
	304SS	304SS		PVDF	PVDF
	304LSS	304LSS		PPS	PPS
	316SS	316SS		Aralditea	AR
	316LSS	316LSS		FRP	FRP
	420SS	420SS		PA	PA
	Alloy	Ay		Acetalicresm	POM
	Alma	Al			
	Tungsten Carbide	TC			
	Cast Steel	Cs			
	Fe	Fe			
Others	Ruby	Ru			
	Sapphire	Sa			
	GRS	Gr			
	Ceramic	Cer			

4. Applications

Spray nozzles are widely used to Pulp & paper industry, steel industry, electronics industry, mechanical industry, petrochemical industry, environment protection industry, auto industry, dedusting industry, washing industry, power mills, agriculture, fire protection, etc., applied to cleaning, cutting, cooling, humidification, injection, painting, sterilization, lubrication, stripping, fire protection, irrigation, drying and controling etc.

Double trim squirt nozzles



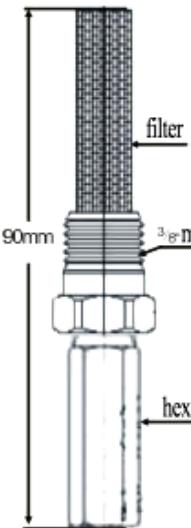
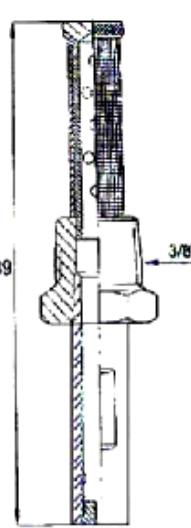
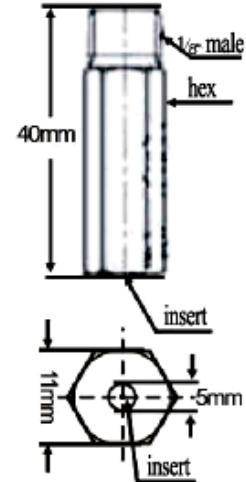
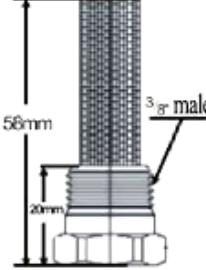
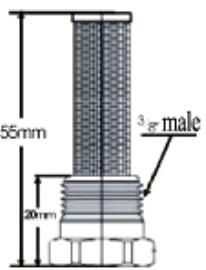
Technical data

P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)									
		0.3	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	Screen
1921	0.4	0.24	0.30	0.44	0.54	0.62	0.68	0.75	0.87	0.97	100 mesh
	0.5	0.38	0.48	0.68	0.84	0.97	1.07	1.17	1.35	1.51	
1923	0.6	0.54	0.71	0.99	1.21	1.39	1.54	1.79	1.86	2.18	50 mesh
	0.7	0.73	0.95	1.23	1.63	1.95	2.21	2.32	2.68	2.98	
1924	0.8	0.97	1.23	1.75	2.14	2.46	2.77	3.03	3.49	3.92	
	0.9	1.21	1.58	2.23	2.73	3.13	3.46	3.84	4.42	4.95	
	1.0	1.48	1.94	2.75	3.35	3.84	4.34	4.76	5.47	6.12	
	1.2	2.16	2.79	3.94	4.6	5.57	6.23	6.83	7.88	8.81	

Single trim squirt nozzles

1911	1912	1915	19121-Ru	19121-Cer	19110	19120	19150				
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic										
Description	Orifice diameter 0.4-1.0mm available, deliver single stream at high pressure, tip thread 1/8" NPT/BSPT and M10x0.75 available, filter thread 3/8" NPT/BSPT available.										
Application	Applied to paper trimming, timber cutting and precise components cleaning						Spray pattern				
Specification											
P/n	Insert material	Orifice (mm)	Thread		Total length	Tip length	Filter length		Total weight	Tip weight	
1911	Ru	φ0.4~φ1.2	Rp 3/8	Rp 1/8	91 mm	40 mm	55 mm	58 mm	43 g	16.5 g	
1912	Cer	φ0.4~φ1.2	Rp 3/8	Rp 1/8	91 mm	40 mm	55 mm	58 mm	43.1 g	16.6 g	
1915	TC	φ0.4~φ1.2	Rp 3/8	Rp 1/8	91 mm	40 mm	55 mm	58 mm	43.4 g	16.7 g	
Remark: 1. Dimension will differ a bit in different materials				2. Please always indicate what thread needed							
Technical data											
P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)									
		0.3	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	Screen
1911 1912 1915	0.4	0.12	0.15	0.22	0.27	0.31	0.34	0.37	0.43	0.48	100 mesh
	0.5	0.19	0.24	0.34	0.42	0.48	0.53	0.58	0.67	0.75	
	0.6	0.27	0.35	0.49	0.60	0.69	0.77	0.84	0.97	1.09	
	0.7	0.36	0.47	0.66	0.81	0.97	1.05	1.15	1.33	1.48	
	0.8	0.48	0.61	0.87	1.06	1.23	1.37	1.50	1.73	1.94	50 mesh
	0.9	0.60	0.78	1.10	1.35	1.55	1.73	1.90	2.19	2.45	
	1.0	0.74	0.96	1.36	1.66	1.92	2.14	2.35	2.71	3.03	
	1.2	1.07	1.38	1.95	2.30	2.76	3.08	3.38	3.39	4.36	

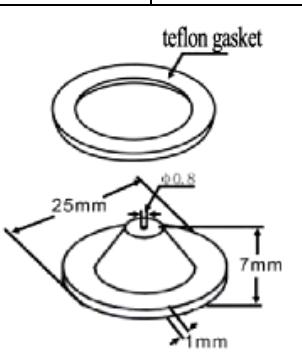
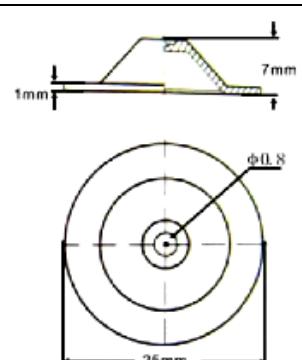
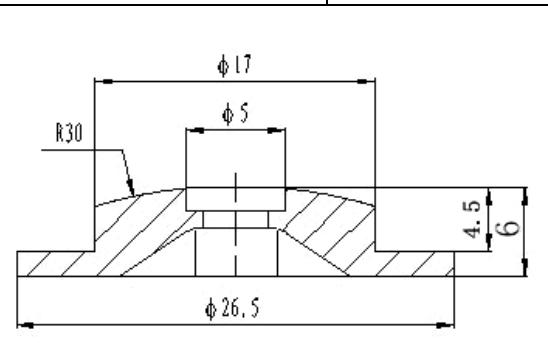
Single trim squirt nozzles

											
1913	1914	19131	19141	19120	19140						
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic				 Spray pattern						
Description	Orifice diameter 0.4-1.0mm available, deliver stream at high pressure, tip thread 1/8"NPT/BSPT and M10x0.75 available, filter thread 3/8"NPT/BSPT available.										
Application	Applied to paper trimming, timber cutting and precise components cleaning										
											
Specification											
P/n	Insert material	Orifice(mm)	Thread	Total length	Tip length	Filter length	Total weight	Tip weight			
1913	Ru	φ0.4~φ1.2	G 3/8	G 1/8	90 mm	40 mm	55 mm	58 mm	43 g	16.5 g	
	Cer	φ0.4~φ1.2	G 3/8	G 1/8	90 mm	40 mm	55 mm	58 mm	43.1 g	16.6 g	
1914	TC	φ0.4~φ1.2	G 3/8	G 1/8	90 mm	40 mm	55 mm	58 mm	43.4 g	16.7 g	
Remark:	1. Dimension will differ a bit in different materials				2. Please always indicate what thread needed						
Technical data											
P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)									Screen
		0.3	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	
1913 1914	0.4	0.12	0.15	0.22	0.27	0.31	0.34	0.37	0.43	0.48	100 mesh
	0.5	0.19	0.24	0.34	0.42	0.48	0.53	0.58	0.67	0.75	
	0.6	0.27	0.35	0.49	0.60	0.69	0.77	0.84	0.97	1.09	
	0.7	0.36	0.47	0.66	0.81	0.97	1.05	1.15	1.33	1.48	
	0.8	0.48	0.61	0.87	1.06	1.23	1.37	1.50	1.73	1.94	50 mesh
	0.9	0.60	0.78	1.10	1.35	1.55	1.73	1.90	2.19	2.45	
	1.0	0.74	0.96	1.36	1.66	1.92	2.14	2.35	2.71	3.03	
	1.2	1.07	1.38	1.95	2.30	2.76	3.08	3.38	3.39	4.36	

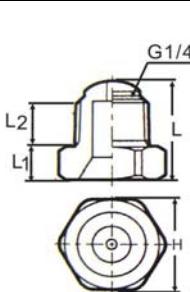
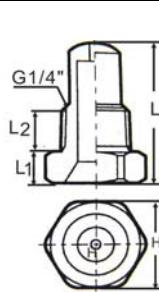
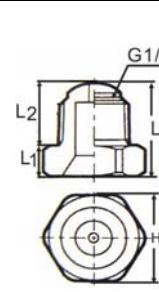
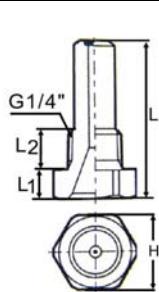
Trim nozzles

1938-Ru	1938-Cer	1938-TC	1938x304SS	1938xCu	190																																																																																																				
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic																																																																																																								
Description	Orifice diameter 0.4-1.0mm available, deliver single stream at high pressure, M18x1 female thread available.																																																																																																								
Application	Applied to paper trimming, timber cutting and precise components cleaning																																																																																																								
Specification	<table border="1"> <thead> <tr> <th>Insert material</th> <th>Orifice(mm)</th> <th>Length(mm)</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>Ru</td> <td>φ0.4~φ1.2</td> <td>38</td> <td>59 g</td> </tr> <tr> <td>Cer</td> <td>φ0.4~φ1.2</td> <td>38</td> <td>60 g</td> </tr> <tr> <td>TC</td> <td>φ0.4~φ1.2</td> <td>38</td> <td>62 g</td> </tr> <tr> <td>SS</td> <td>φ0.4~φ1.2</td> <td>38</td> <td>58 g</td> </tr> </tbody> </table> <p>Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed</p>					Insert material	Orifice(mm)	Length(mm)	Weight	Ru	φ0.4~φ1.2	38	59 g	Cer	φ0.4~φ1.2	38	60 g	TC	φ0.4~φ1.2	38	62 g	SS	φ0.4~φ1.2	38	58 g																																																																																
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	1.2	1.07	1.38	1.95	2.30	2.76	3.08	3.38	3.39	4.36																																																																																															

Solid stream shower nozzles

Material	Body material: 316SS Insert material: Ruby, Tungsten Carbide, Ceramic											
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life.											
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.						 Spray pattern					
Specification	  											
P/n	Insert material	Orifice(mm)	Outer dia.	High	Weight	Seal	 Seal					
2534/2535	SS	φ0.3~φ2.0	26mm—27mm	7.5mm	5-5.5 g	Gasket						
2531	SS	φ0.3~φ2.0	25mm	7mm	7-7.5 g	Gasket						
	Ru	φ0.5~φ1.5	25mm	7mm	7.3-7.8 g	Gasket						
	Cer	φ0.5~φ1.5	25mm	7mm	7.3-7.8 g	Gasket						
	TC	φ0.5~φ1.5	25mm	7mm	7.3-7.8 g	Gasket						
2533	Ru	φ0.5~φ1.5	25mm	6mm	11-12 g	Gasket						
	Cer	φ0.5~φ1.5	25mm	6mm	11-12 g	Gasket						
	TC	φ0.5~φ1.5	25mm	6mm	11-12 g	Gasket						
2536	Ru	φ0.5~φ1.5	26.5mm	6mm	12-12.5 g	O-ring	 Seal					
	Cer	φ0.5~φ1.5	26.5mm	6mm	12-12.5 g	O-ring						
	TC	φ0.5~φ1.5	26.5mm	6mm	12-12.5 g	O-ring						
Remark: 1. Dimension will differ a bit in different materials				2. Please always indicate what thread needed								
Technical data												
P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)										
		0.15	0.3	0.7	2.0	5.5						
2531	0.3	0.11	0.16	0.24	0.41	0.68						
	0.4	0.20	0.28	0.42	0.71	1.20						
	0.5	0.25	0.36	0.54	0.92	1.50						
	0.6	0.36	0.51	0.78	1.30	2.20						
	0.8	0.50	0.63	0.91	1.38	3.15						
	0.9	0.56	0.71	1.25	1.98	2.58						
	1.0	0.64	0.91	1.40	2.30	3.90						
	1.2	0.92	1.30	2.00	3.40	5.60						
	1.5	1.20	1.70	2.60	4.40	7.30						
	1.9	2.20	3.10	4.80	8.10	13.40						
	2.0	2.82	3.85	6.31	10.25	16.21						
	2.4	3.50	4.90	7.50	12.60	21.00						
	3.2	5.50	7.80	11.90	20.00	33.00						

Solid stream HP nozzles

Standard								
Lengthening								
Material	Body material: 316SS Insert material: Ruby, Tungsten Carbide, Ceramic							
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life, 1/4" NPT/BSPT/BSP and 9/16-24 UNEF threads available.						Spray pattern	
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.							
								
Specification								
Material	Type	Thread	H(mm)	L(mm)	L1(mm)	L2(mm)	Weight(g)	O-ring
SS	Standard	Rp 1/4"	17	17	6	6	17	
		Mp14x1	17	17	6	5	17	Yes
	Lengthening	Rp 1/4"	17	25	6	7	21	
		Mp14x1	17	25	6	6	21	Yes
Ru	Standard	Rp 1/4"	17	17	6	6	17.2	
		Mp14x1	17	17	6	5	17.2	Yes
	Lengthening	Rp 1/4"	17	25	6	7	21.2	
		Mp14x1	17	25	6	6	21.2	Yes
Cer	Standard	Rp 1/4"	17	17	6	6	17.3	
		Mp14x1	17	17	6	5	17.3	Yes
	Lengthening	Rp 1/4"	17	25	6	7	21.3	
		Mp14x1	17	25	6	6	21.3	Yes
TC	Standard	Rp 1/4"	17	17	6	6	17.5	
		Mp14x1	17	17	6	5	17.5	Yes
	Lengthening	Rp 1/4"	17	25	6	7	21.5	
		Mp14x1	17	25	6	6	21.5	Yes

Remark: 1. Dimension will differ a bit in different materials

2. Please always indicate what thread needed

Technical data

Orifice (mm)	Flow rate (l/min) / pressure (MPa)											
	0.3	0.5	0.7	1.0	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.8	0.5	0.7	0.8	1.0	1.2	1.4	1.7	2.0	2.3	2.5	2.7	2.9
0.9	0.7	0.9	1.1	1.3	1.6	1.8	2.2	2.6	2.9	3.1	3.4	3.6
1.0	0.9	1.1	1.3	1.6	1.9	2.2	2.7	3.2	3.5	3.9	4.2	4.5
1.2	1.2	1.6	1.9	2.3	2.8	3.2	3.9	4.5	5.1	5.6	6.7	6.4
1.5	1.9	2.5	3.0	3.5	4.3	5.0	6.2	7.1	7.9	8.7	9.4	10.1
1.8	2.8	3.6	4.3	5.1	6.3	7.2	8.9	10.2	11.4	12.5	13.5	14.4
2.0	3.5	4.5	5.3	6.3	7.7	8.9	10.9	12.6	14.0	15.5	16.7	17.8

Solid stream nozzles

Standard	2571	2571-Ru	2571-Cer	2571xCu-Cer								
Lengthening	2572-Mp14x1	2572-Ru	2572-Cer	2572xCu-Cer								
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic											
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life, 1/4"NPT/BSPT/BSP and 9/16-24 UNEF threads available.											
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.											
Specification												
Material	Type	Thread	H(mm)	L(mm)	L1(mm)	L2(mm)	Weight(g)	O-ring				
SS	Standard	Rp 1/4"	17	17	6	6	17					
		Mp14x1	17	17	6	5	17	Yes				
	Lengthening	Rp 1/4"	17	25	6	7	21					
		Mp14x1	17	25	6	6	21	Yes				
Ru	Standard	Rp 1/4"	17	17	6	6	17.2					
		Mp14x1	17	17	6	5	17.2	Yes				
	Lengthening	Rp 1/4"	17	25	6	7	21.2					
		Mp14x1	17	25	6	6	21.2	Yes				
Cer	Standard	Rp 1/4"	17	17	6	6	17.3					
		Mp14x1	17	17	6	5	17.3	Yes				
	Lengthening	Rp 1/4"	17	25	6	7	21.3					
		Mp14x1	17	25	6	6	21.3	Yes				
TC	Standard	Rp 1/4"	17	17	6	6	17.5					
		Mp14x1	17	17	6	5	17.5	Yes				
	Lengthening	Rp 1/4"	17	25	6	7	21.5					
		Mp14x1	17	25	6	6	21.5	Yes				
Remark: 1. Dimension will differ a bit in different materials					2.Please always indicate what thread needed							
Technical data												
Orifice (mm)	Flow rate (l/min) / pressure (MPa)											
	0.3	0.5	0.7	1.0	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.4	0.12	0.15	0.18	0.22	0.27	0.31	0.37	0.43	0.48	0.53	0.59	0.64
0.5	0.19	0.24	0.29	0.34	0.42	0.48	0.53	0.67	0.75	0.83	0.91	1.1
0.6	0.27	0.35	0.42	0.49	0.60	0.69	0.84	0.97	1.09	1.15	1.23	1.31
0.7	0.36	0.47	0.54	0.66	0.81	0.97	1.15	1.33	1.48	1.55	1.62	1.80
0.8	0.5	0.7	0.8	1.0	1.2	1.4	1.7	2.0	2.3	2.5	2.7	2.9
0.9	0.7	0.9	1.1	1.3	1.6	1.8	2.2	2.6	2.9	3.1	3.4	3.6
1.0	0.9	1.1	1.3	1.6	1.9	2.2	2.7	3.2	3.5	3.9	4.2	4.5
1.2	1.2	1.6	1.9	2.3	2.8	3.2	3.9	4.5	5.1	5.6	6.7	6.4
1.5	1.9	2.5	3.0	3.5	4.3	5.0	6.2	7.1	7.9	8.7	9.4	10.1
1.8	2.8	3.6	4.3	5.1	6.3	7.2	8.9	10.2	11.4	12.5	13.5	14.4
2.0	3.5	4.5	5.3	6.3	7.7	8.9	10.9	12.6	14.0	15.5	16.7	17.8

Solid stream nozzles

Material	Body material: 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic				
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life, 1/4"NPT/BSPT/BSP threads available.				
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.				

Specification

P/n	Material	Top OD	Orifice	H(mm)	L(mm)	L1 (mm)	Thread	Stabilizer	Weight(g)
2551	Ru	φ11	φ0.4~φ1.0	14.0	25.5	8.0	Rp 1/4"	Yes	16.8
	Cer	φ11	φ0.4~φ1.0	14.0	25.5	8.0	Rp 1/4"		16.8
	TC	φ11	φ0.4~φ1.0	14.0	25.5	8.0	Rp 1/4"		17.0
	SS Cu	φ11	φ0.4~φ1.0	14.0	25.5	8.0	Rp 1/4"		16.5 17.0
2551-X	Ru Cer TC SS Cu	φ11	φ0.4~φ1.0	14.0	25.5	8.0	Rp 1/4"	Yes	17.2
									17.2
									17.5
									17.0
									17.5

Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed

Technical data

P/n	Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)								Spray angle (0.3MPa/h)
			0.3	0.5	0.7	1.0	2.0	3.0	4.0	5.0	
2551	25	0.8	0.8	1.0	1.2	1.5	2.1	2.5	2.9	3.3	3.6
	31	0.9	1.0	1.3	1.5	1.8	2.6	3.1	3.6	4.0	4.4
	37	1.0	1.2	1.5	1.7	2.2	3.1	3.7	4.3	4.8	5.3
	43	1.1	1.4	1.8	2.1	2.5	3.5	4.3	5.0	5.6	6.1
	56	1.2	1.8	2.3	2.7	3.3	4.6	5.7	6.5	7.2	8.0
	62	1.3	2.0	2.6	3.0	3.6	5.1	6.3	7.2	8.1	8.8
	68	1.4	2.2	2.8	3.3	4.0	5.6	6.9	7.9	8.9	9.7
	80	1.5	2.6	3.3	3.9	4.7	6.6	8.1	9.3	10.4	11.4

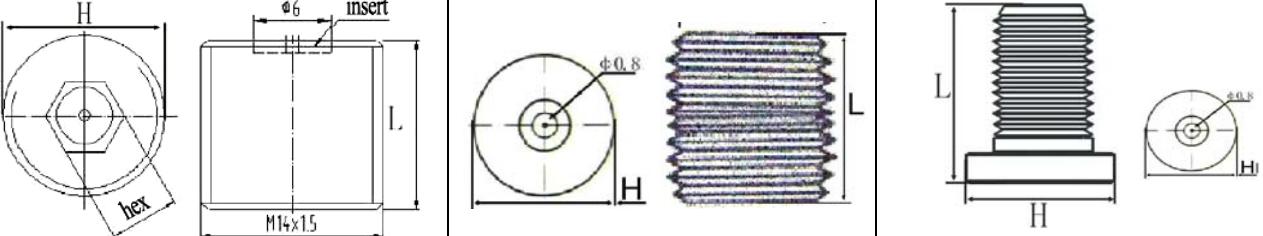
Solid stream nozzles

	2701x304SS	2701xCu	2703x304SS	2703xCu	2703-Cer		
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic						
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life, 1/8" NPT/BSPT/BSP and M10x1.5 threads available.						
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.						
Specification							
P/n	Thread	L(mm)	L1(mm)	H(mm)	Weight(g)		
2701		26.0		22.0	50.0		
		23.0	8.0	16.0	45.0		
2703	Mp10x1.5	26.0	8.0	10.0	10.0		
	Mp18x1.25、Mp10x1.5	28.0	8.0	10.0	10.0		
	Mp18x1.25、Mp10x1.5	24.5	8.0	10.0	10.0		
	Mp18x1.25、Mp10x1.5	24.5	8.0	10.0	10.0		
Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed							
Technical data							
P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)					Spray angle 0.4MPa
		0.15	0.3	0.7	2.0	5.5	
2701	0.3	0.11	0.16	0.24	0.41	0.68	0.68
	0.4	0.20	0.28	0.42	0.71	1.20	1.20
	0.5	0.25	0.36	0.54	0.92	1.50	1.50
	0.6	0.36	0.51	0.78	1.30	2.20	2.20
	1.0	0.64	0.91	1.40	2.30	3.90	3.90
2703	1.2	0.92	1.30	2.00	3.40	5.60	5.60
	1.5	1.20	1.70	2.60	4.40	7.30	7.30
	1.9	2.20	3.10	4.80	8.10	13.40	13.40
	2.4	3.50	4.90	7.50	12.60	21.00	21.00
	3.2	5.50	7.80	11.90	20.00	33.00	33.00

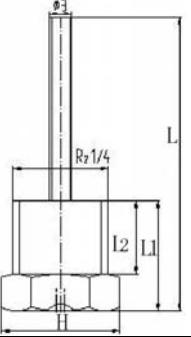
Solid stream nozzles

2713	2714	2715	2716	27162	2821	28211	28212	28213																																																																										
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic																																																																																	
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life.																																																																																	
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.																																																																																	
Specification <table border="1"> <thead> <tr> <th>P/n</th><th>Type</th><th>Thread</th><th>L (mm)</th><th>H (mm)</th><th>Weight (g)</th></tr> </thead> <tbody> <tr> <td>2713</td><td>Male thread</td><td>Mp14×1</td><td>23.0</td><td>16.0</td><td>45.0</td></tr> <tr> <td>2714</td><td>Female thread</td><td>Mp8×1.25</td><td>26.0</td><td>22.0</td><td>50.0</td></tr> <tr> <td>2715</td><td>Male thread</td><td>Rp 1/8"</td><td>26.0</td><td>12.0</td><td>14.0</td></tr> <tr> <td></td><td></td><td>Rp 1/4"</td><td>26.0</td><td>14.0</td><td>22.0</td></tr> <tr> <td>2716</td><td>Welded</td><td>Mc10×1.5</td><td>45.0</td><td>14.0</td><td>30.0</td></tr> <tr> <td>27162</td><td></td><td></td><td>25.0</td><td>14.0</td><td>18.0</td></tr> <tr> <td rowspan="4">2821</td><td rowspan="6">Adjustable</td><td>Rp 1/4"</td><td>50.0</td><td>20.6</td><td>70.9</td></tr> <tr> <td>Rp 3/8"</td><td>50.0</td><td>20.6</td><td>63.8</td></tr> <tr> <td>Rp 1/4"</td><td>50.0</td><td>20.6</td><td>70.9</td></tr> <tr> <td>Rp 3/8"</td><td>50.0</td><td>20.6</td><td>63.8</td></tr> </tbody> </table>								P/n	Type	Thread	L (mm)	H (mm)	Weight (g)	2713	Male thread	Mp14×1	23.0	16.0	45.0	2714	Female thread	Mp8×1.25	26.0	22.0	50.0	2715	Male thread	Rp 1/8"	26.0	12.0	14.0			Rp 1/4"	26.0	14.0	22.0	2716	Welded	Mc10×1.5	45.0	14.0	30.0	27162			25.0	14.0	18.0	2821	Adjustable	Rp 1/4"	50.0	20.6	70.9	Rp 3/8"	50.0	20.6	63.8	Rp 1/4"	50.0	20.6	70.9	Rp 3/8"	50.0	20.6	63.8															
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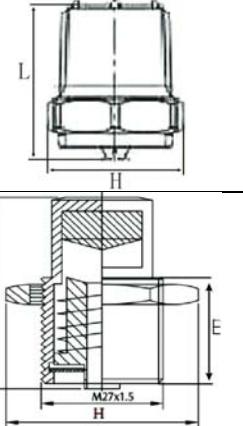
Dry felt cleaning nozzles

 2651	26511	26513	26515	26516			
	2751	27511-Ru	27511-Cer	2755			
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic						
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life.						
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.						
							
Specification							
P/N	Type	Thread	Insert	L (mm)	H (mm)	Weight(g)	
2651	Male thread	Rp3/8"	Ru	21.0	19.5	40.0	
26511	Male thread	Mp6×1	Ru	6.5	6.0	2.0	
26513	Male thread	Mp6×1	Ru	10.	8.0	2.5	
26515	Male thread	Mp6×1	Ru	8.0	8.0	2.5	
2751	Welded	Mp20×1.5	Ru Cer	23.5	22.0	25.0	
27511	Male thread	Mp14×1.5	Ru Cer	14.0	20.0	20.0	
2755	Male thread	Mp14×1.5	Ru Cer	21.0	19.50	40.0	
Remark: 1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed				
Technical data							
P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)					Spray angle 0.4 MPa
		0.15	0.3	0.7	2.0	5.5	
2651 26511 26513 26515 2751 27511 2755	0.2	0.025	0.035	0.06	0.09	0.21	0°
	0.25	0.35	0.05	0.08	0.12	0.28	
	0.3	0.11	0.16	0.24	0.41	0.68	
	0.4	0.20	0.28	0.42	0.71	1.20	
	0.5	0.25	0.36	0.54	0.92	1.50	
	0.6	0.36	0.51	0.78	1.30	2.20	
	1.0	0.64	0.91	1.40	2.30	3.90	
	1.2	0.92	1.30	2.00	3.40	5.60	
	1.5	1.20	1.70	2.60	4.40	7.30	
	1.9	2.20	3.10	4.80	8.10	13.40	
	2.4	3.50	4.90	7.50	12.60	21.00	
	3.2	5.50	7.80	11.90	20.00	33.00	

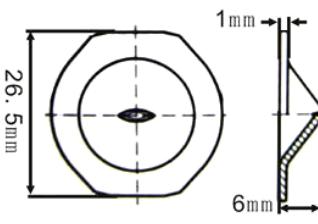
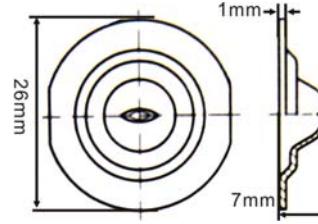
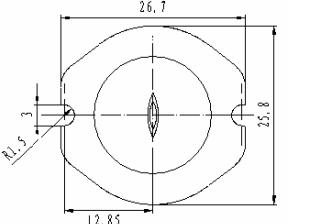
Solid stream nozzles

							
Material	Body material: Brass, 303SS, 316SS Insert material: Ruby, Tungsten Carbide, Ceramic						
Description	Orifice diameter 0.4-1.0mm available, deliver solid stream at high pressure, applied to shower pipes, special insert materials make the nozzles longer working life.						
Application	Applied to net section and express section felt cleaning, roller cleaning, trim nozzles and shower pipes cleaning.						
Specification							
P/n	Thread	L (mm)	L1(mm)	H(mm)	H1(mm)	Needle Length(mm)	Weight (g)
2737	Mp8×1.25	65.5	20.5	22.0		45.0	120.0
2739xCu	Mp8×1.25 Mp10×1.5	41.0	15.0	14.0	13.0	26.0	Cu 15.0
2739-Rp1/4"	Rp1/4"	55.5	21.0	17.0	8.0	34.5	SS 30.0
2739x304SS	Mp8×1.25	65.5	20.5	17.0	8.0	45.0	SS 30.0
Remark: 1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed				
Technical data							
P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)					Spray angle 0.4 MPa
		0.15	0.3	0.7	2.0	5.5	
2737	0.3	0.11	0.16	0.24	0.41	0.68	0°
	0.4	0.20	0.28	0.42	0.71	1.20	
	0.5	0.25	0.36	0.54	0.92	1.50	
	0.6	0.36	0.51	0.78	1.30	2.20	
	1.0	0.64	0.91	1.40	2.30	3.90	
	1.2	0.92	1.30	2.00	3.40	5.60	
2739	1.5	1.20	1.70	2.60	4.40	7.30	
	1.9	2.20	3.10	4.80	8.10	13.40	
	2.4	3.50	4.90	7.50	12.60	21.00	
	3.2	5.50	7.80	11.90	20.00	33.00	

Self-cleaning nozzles

Material	Material: 303SS, 316SS														
Description	Working normally at higher pressure while clean itself at lower pressure, save cost of shut down maintenance. There're flat fan and solid stream spray available.														
Application	Applied to cleaning using the recycle water with floater, felt cleaning at low pressure and roller and scraper humidifying.						Spray pattern								
Specification															
P/n	Thread	Orifice (mm)	Type	L (mm)	H (mm)	E (mm)	Weight (g)								
3511	Mp27×1.5 Mp28×1.5	0.4、0.6 0.8、1.0	Fan	36.0	38.0	22	120.0								
3512	Mp27×1.5 Mp28×1.5	φ0.6、φ0.8、φ1.0	Solid	36.0	38.0	22	120								
3513	Rp11/8" Rp1/2" Rp3/4"	0.4、0.6 0.8、1.0	Fan	35.0	38.0	21	140.0								
3514	Rp11/8" Rp1/2" Rp3/4"	φ0.6、φ0.8、φ1.0	Solid	35.0	38.0	21	140								
3517	Rp1/2"	0.4、0.6、0.8	Fan	27.0	19.0		52.0								
3518	Rp1/2"	φ0.6、φ0.8、φ1.0	Solid	27.0	19.0		52.0								
Remark: 1. Dimension will differ a bit in different materials				2. Please always indicate what thread needed											
Technical data															
Spray angle 0.28MPa	Code	Flow rate (l/min) / pressure (MPa)													
		0.015	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.7	0.8	1.0	1.5
0°	0001	0.28	0.32	0.36	0.39	0.43	0.46	0.48	0.51	0.53	0.56	0.6	0.64	0.72	0.88
	0002	0.56	0.64	0.72	0.79	0.85	0.91	0.97	1.0	1.07	1.1	1.2	1.3	1.4	1.8
	0005	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4
	0006	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.3	3.6	3.9	4.3	5.3
	0008	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.2	5.8	7.1
15°	1506	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.3	3.6	3.9	4.3	5.3
	3013	3.6	4.2	4.7	4.5.1	5.5	5.9	6.3	6.6	6.9	7.3	7.8	8.4	9.4	11.5
30°	3014	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.4	9.0	10.1	12.4
	4012	3.3	3.9	4.3	4.7	5.1	5.5	5.8	6.1	6.4	6.7	7.2	7.7	8.6	10.6
	4013	3.6	4.2	4.7	5.1	5.5	5.9	6.3	6.6	6.9	7.3	7.8	8.4	9.4	11.5
40°	4014	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.4	9.0	10.1	12.4
	4020	5.6	6.4	7.2	7.9	8.5	9.1	9.7	10.2	10.7	11.2	12.1	12.9	14.4	17.7
	4516	4.5	5.2	5.8	6.3	6.6	7.3	7.7	8.2	8.6	8.9	9.6	10.3	115	14.1
45°	4525	7.0	8.1	9.0	9.9	10.7	11.4	12.1	12.7	13.4	14.0	15.1	16.1	18.0	22
	5032	8.9	10.3	11.5	12.6	13.6	14.6	15.5	16.3	17.1	17.9	19.3	21	23	28
50°	6016	4.5	5.2	5.8	6.3	6.6	7.3	7.7	8.2	8.6	8.9	9.6	10.3	115	14.1
	6031	8.7	10.0	11.2	12.2	13.2	14.1	15.0	15.8	16.6	17.3	18.7	20	22	27
	6038	10.6	12.2	13.7	15.0	16.2	17.3	18.4	19.4	20	21	23	24	27	34
60°	8003	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4
	8011	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.1	6.6	7.1	7.9	9.7
	8019	5.3	6.1	6.8	7.5	8.1	8.7	9.2	9.7	10.2	10.6	11.5	12.2	13.7	16.8
	8030	8.4	9.7	10.8	11.8	12.8	13.7	14.5	15.3	16.0	16.7	18.1	19.3	22	26
80°	10011	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.1	6.6	7.1	7.9	9.7
	10020	5.6	6.4	7.2	7.9	8.5	9.1	9.7	10.2	10.7	11.2	12.1	12.9	14.4	17.7
100°	12008	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.2	5.8	7.1
120°	13016	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.6	8.9	9.6	10.3	11.5	14.1
130°															

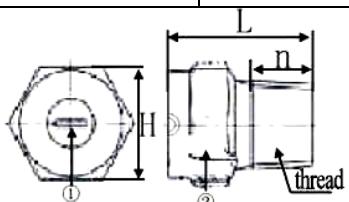
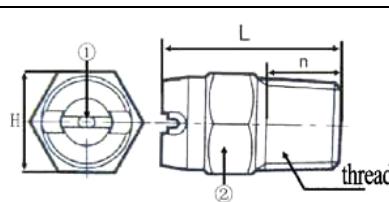
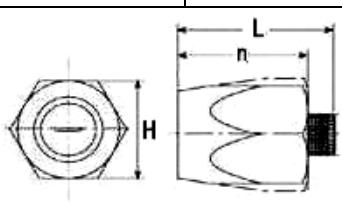
Flat fan shower nozzles

									
3711	3712	3713	3717	3719	37112	37132	37172		
Material	Material: 316SS								
Description	Applied to shower pipes, deliver high impact fan stream at low pressure, spray angle 30°, 60°and 75°available for items 3711, 3712 and 3713, and 45°the biggest for items 3717 and 3719.						Spray pattern		
Application	Applied to felt cleaning and humidifying, and chemical spraying.								
									
Specification	P/n	Type	Orifice(ϕ)	OD(mm)	Thickness(mm)	height(mm)	Seal	Weight(g)	
	3711	Disc	$\phi 1.0 \sim \phi 6.0$	26.5	1.0	6.0	Yes	5.5	
	3712	Disc	$\phi 1.0 \sim \phi 6.0$	26.0	1.0	7.0	Yes	5.0	
	3713	Disc	$\phi 1.0 \sim \phi 6.0$	26.7	1.0	6.5	Yes	5.5	
	3717	Mp27×1.5			5.5	16.0	Yes	10.0	
	3719	Rp 3/8"			5.5	18.0	Yes	15.0	
Remark:	1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed					
Technical data	P/n	Orifice (mm)	Code	Spray angle	Flow rate (l/min) / pressure (MPa)				
				30°	0.15	0.3	0.7	2.0	5.5
	3711	1.0	3002	30°	0.64	0.91	1.40	2.30	3.90
		1.5	3004		1.20	1.70	2.60	4.40	7.30
		2.0	3008		2.20	3.10	4.80	8.10	13.40
		2.5	3012		3.50	4.90	7.50	12.60	21.00
		3.0	3020		5.50	7.80	11.90	20.00	33.00
		4.0	3031		8.80	12.40	18.90	32.00	53.00
		5.0	3049		13.70	19.40	30.00	50.00	83.00
	3712	6.0	3078	60°	22.00	31.00	48.00	81.00	135.00
		1.0	6002		0.64	0.91	1.40	2.30	3.90
		1.5	6004		1.20	1.70	2.60	4.40	7.30
		1.8	6006		1.70	2.4	3.7	6.2	10.3
		2.0	6008		2.20	3.10	4.80	8.10	13.40
		2.5	6012		3.50	4.90	7.50	12.60	21.00
		3.0	6020		5.50	7.80	11.90	20.00	33.00
	3713	4.0	6031	75°	8.80	12.40	18.90	32.00	53.00
		5.0	6049		13.70	19.40	30.00	50.00	83.00
		6.0	6078		22.00	31.00	48.00	81.00	135.00
		1.0	7502		0.64	0.91	1.40	2.30	3.90
		1.5	7504		1.20	1.70	2.60	4.40	7.30
		1.8	7506		1.70	3.1	4.8	8.1	13.4
		2.0	7508		2.20	3.10	4.80	8.10	13.40
	3717	2.5	7512		3.50	4.90	7.50	12.60	21.00
		3.0	7520		5.50	7.80	11.90	20.00	33.00
		4.0	7531		8.80	12.40	18.90	32.00	53.00
		5.0	7549		13.70	19.40	30.00	50.00	83.00
		6.0	7578		22.00	31.00	48.00	81.00	135.00

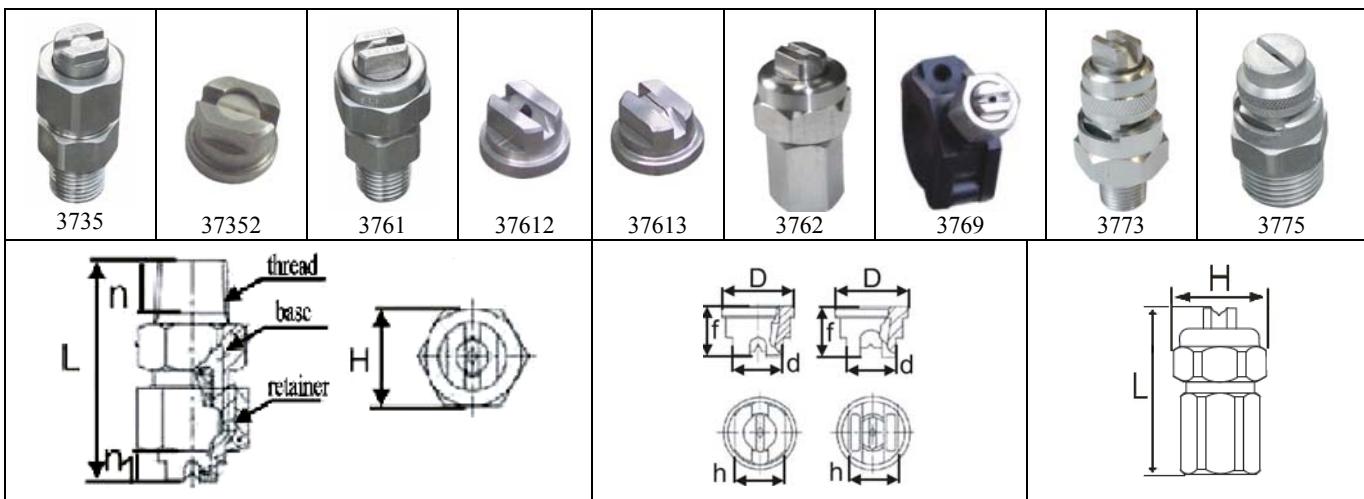
Button fan nozzles

Material		Material: 303SS, 316SS											
Description		Normally chosen when the shower pipe is close to the felt. Spray angle 30°, 60°, 75°and 80°available.											
Application		Applied to felt cleaning and humidifying.											
Specification													
P/n	Type	Orifice(φ)	OD(mm)	Thickness	Thread	Seal	Weight(g)						
3721	Disc	$\varphi 1.0 \sim \varphi 6.0$	16.5	3.2	NPT 5/8-18	Yes	9.0						
3722	Disc	$\varphi 1.0 \sim \varphi 6.0$	15.5	3.0	BSPT 3/8"-19	Yes	3.5						
3723	Disc	$\varphi 1.0 \sim \varphi 6.0$	20.0	3.0	Mp20×1.0	Yes	6.0						
Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed													
Technical data													
Code	Orifice (mm)	Spray angle	Flow rate (l/min) / pressure (MPa)										
			0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
9510	2.0	95°	1.5	2.2	3.0	3.7	4.3	4.8	5.3	5.7	6.1	6.5	6.8
8033	4.0	80°	5.2	7.3	10.3	12.6	14.6	16.3	17.9	19.3	20.6	21.8	23.0
7538	4.2	75°	6.1	8.5	11.9	14.6	16.8	18.8	20.5	22.1	23.6	25.0	26.4
7018	3.0	70°	3.0	4.1	5.7	7.0	8.1	9.0	9.8	10.6	11.3	12.0	12.6
7020	3.0		3.2	4.4	6.2	7.6	8.8	9.8	10.7	11.8	12.3	13.0	13.7
7031	3.8		4.9	6.8	9.6	11.8	13.5	15.1	16.5	17.8	19.1	20.2	21.3
7032	3.9		5.0	7.0	9.9	12.1	14.0	15.6	17.2	18.4	19.6	20.8	21.8
7038	4.2		6.1	8.5	11.9	14.6	16.8	18.8	20.5	22.1	23.6	25.0	26.4
7040	4.3		6.4	9.0	12.6	15.5	18.0	19.9	21.7	23.4	25.1	26.5	28.0
7041	4.3		6.5	9.1	12.9	15.8	18.1	20.3	22.1	23.8	25.5	27.0	28.5
7045	4.4		7.1	10.0	14.0	17.1	19.7	21.9	24.1	26.0	27.8	29.3	31.0
7041	4.7		7.8	10.8	15.3	18.8	21.5	24.0	26.3	28.4	30.2	32.1	33.7
6510	2.0	65°	1.5	2.2	3.0	3.7	4.3	4.8	5.3	5.7	6.1	6.5	6.8
6530	3.7		4.6	6.5	9.2	11.3	13.0	14.6	15.9	17.2	18.4	19.5	20.5
6541	4.4		6.5	9.1	12.9	15.8	18.1	20.3	22.1	23.8	25.5	27.0	28.5
6547	4.5		7.5	10.4	14.8	18.0	20.8	23.1	25.4	27.4	29.2	30.9	32.5
6004	1.4	60°	0.7	1.0	1.4	1.7	1.9	2.2	2.4	2.5	2.8	2.9	3.1
6006	1.6		0.9	1.3	1.8	2.2	2.5	2.9	3.2	3.4	3.6	3.9	4.0
6013	2.4		2.1	2.8	4.0	5.0	5.7	6.5	7.0	7.5	8.1	8.6	9.1
6019	3.0		3.1	4.2	5.9	7.2	8.3	9.3	10.1	10.9	11.7	12.4	13.0
6020	3.1		3.2	4.4	6.2	7.6	8.8	9.8	10.7	11.8	12.3	13.0	13.7
6021	3.2		3.3	4.6	6.6	8.0	9.3	10.4	11.3	12.2	13.0	13.8	14.7
6024	3.4		3.8	5.3	7.4	9.1	10.5	11.7	12.8	13.8	14.9	15.7	16.5
5510	2.0		1.5	2.2	3.0	3.7	4.3	4.8	5.3	5.7	6.1	6.5	6.8
5516	2.7	55°	2.5	3.6	4.9	6.1	7.3	7.9	8.7	9.5	10.1	10.5	11.1
5519	3.0		3.1	4.2	5.9	7.2	8.3	9.3	10.1	10.9	11.7	12.4	13.0
5532	3.9		5.0	7.0	9.9	12.1	14.0	15.6	17.2	18.4	19.6	20.8	21.8
5534	4.0		5.3	7.5	10.6	12.9	14.9	167	18.2	19.7	21.0	22.2	23.3
5003	1.1	50°	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.0
5018	3.0		3.0	4.1	5.7	7.0	8.1	9.0	9.8	10.6	11.3	12.0	12.6
5021	3.2		3.3	4.6	6.6	8.0	9.3	10.4	11.3	12.2	13.0	13.8	14.7
5035	4.1		5.6	7.9	11.1	13.5	15.6	17.4	19.0	20.5	21.8	23.1	24.5
3010	2.0	30°	1.5	2.2	3.0	3.7	4.3	4.8	5.3	5.7	6.1	6.5	6.8

Flat fan nozzles

																																																																																																																																																																																																																																																																																																																						
3729	3731	3733	3734																																																																																																																																																																																																																																																																																																																			
Material	Body material: 303SS, 316SS Insert material: Ceramic																																																																																																																																																																																																																																																																																																																					
Description	Deliver high impact solid or fan streams, spray angle 0°-65°available. Ceramic insert make it longer working life.																																																																																																																																																																																																																																																																																																																					
Application	Applied to high pressure felt cleaning, chemical spraying and scraper humidifying.																																																																																																																																																																																																																																																																																																																					
  			Spray pattern																																																																																																																																																																																																																																																																																																																			
Specification																																																																																																																																																																																																																																																																																																																						
P/n	L (mm)	H (mm)	n (mm)	①	②	Thread	Weight (g)																																																																																																																																																																																																																																																																																																															
3729	26.0	14.0	10.5	Orifice	Hex	Rp1/4"	16.0																																																																																																																																																																																																																																																																																																															
3731	16.5	12.0	7.0	Orifice	Hex	Rp1/8"、Rp1/4"	7.0																																																																																																																																																																																																																																																																																																															
3733	20.5	15.0	11.0	Orifice	Hex	Rp1/8"、Rp1/4"	18.0																																																																																																																																																																																																																																																																																																															
3734	33.5	22.0	29.0			Rp3/8"	52.0																																																																																																																																																																																																																																																																																																															
Remark: 1. Dimension will differ a bit in different materials				2. Please always indicate what thread needed																																																																																																																																																																																																																																																																																																																		
Technical data				<table border="1"> <thead> <tr> <th rowspan="2">P/n</th><th colspan="5">Spray angle</th><th rowspan="2">Thread</th><th rowspan="2">Code</th><th rowspan="2">Orifice (mm)</th><th colspan="8">Flow rate (l/min) / pressure (MPa)</th></tr> <tr> <th>15°</th><th>25°</th><th>40°</th><th>50°</th><th>65°</th><th>0.1</th><th>0.3</th><th>0.5</th><th>0.7</th><th>1.0</th><th>2.0</th><th>3.0</th><th>4.0</th><th>5.0</th><th>6.0</th></tr> </thead> <tbody> <tr> <td rowspan="5">3729</td><td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>25</td><td>0.8</td><td>0.8</td><td>1.0</td><td>1.2</td><td>1.2</td><td>1.5</td><td>2.1</td><td>2.5</td><td>2.9</td><td>3.3</td><td>3.6</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>31</td><td>0.9</td><td>1.0</td><td>1.3</td><td>1.5</td><td>1.5</td><td>1.8</td><td>2.6</td><td>3.1</td><td>3.6</td><td>4.0</td><td>4.4</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>37</td><td>1.0</td><td>1.2</td><td>1.5</td><td>1.7</td><td>1.7</td><td>2.2</td><td>3.1</td><td>3.7</td><td>4.3</td><td>4.8</td><td>5.3</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>43</td><td>1.1</td><td>1.4</td><td>1.8</td><td>2.1</td><td>2.1</td><td>2.5</td><td>3.5</td><td>4.3</td><td>5.0</td><td>5.6</td><td>6.1</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>49</td><td>1.2</td><td>1.6</td><td>2.0</td><td>2.4</td><td>2.4</td><td>2.9</td><td>4.0</td><td>4.9</td><td>5.7</td><td>6.4</td><td>7.0</td></tr> <tr> <td rowspan="4">3731</td><td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>56</td><td>1.2</td><td>1.8</td><td>2.3</td><td>2.7</td><td>2.7</td><td>3.3</td><td>4.6</td><td>5.7</td><td>6.5</td><td>7.2</td><td>8.0</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>62</td><td>1.3</td><td>2.0</td><td>2.6</td><td>3.0</td><td>3.0</td><td>3.6</td><td>5.1</td><td>6.3</td><td>7.2</td><td>8.1</td><td>8.8</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>68</td><td>1.4</td><td>2.2</td><td>2.8</td><td>3.3</td><td>3.3</td><td>4.0</td><td>5.6</td><td>6.9</td><td>7.9</td><td>8.9</td><td>9.7</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>74</td><td>1.4</td><td>2.4</td><td>3.1</td><td>3.6</td><td>3.6</td><td>4.3</td><td>6.1</td><td>7.5</td><td>8.6</td><td>9.6</td><td>10.5</td></tr> <tr> <td rowspan="4">3733</td><td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>80</td><td>1.5</td><td>2.6</td><td>3.3</td><td>3.9</td><td>3.9</td><td>4.7</td><td>6.6</td><td>8.1</td><td>9.3</td><td>10.4</td><td>11.4</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>87</td><td>1.5</td><td>2.8</td><td>3.6</td><td>4.2</td><td>4.2</td><td>5.1</td><td>7.2</td><td>8.8</td><td>10.1</td><td>11.3</td><td>12.4</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>123</td><td>2.0</td><td>3.0</td><td>3.9</td><td>5.1</td><td>6.0</td><td>7.2</td><td>10.2</td><td>12.4</td><td>14.3</td><td>16.1</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>187</td><td>2.4</td><td>3.4</td><td>6.0</td><td>7.7</td><td>9.1</td><td>10.9</td><td>15.4</td><td>18.8</td><td>21.7</td><td>24.3</td></tr> <tr> <td rowspan="3">3734</td><td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>249</td><td>2.8</td><td>4.5</td><td>7.9</td><td>10.2</td><td>12.0</td><td>14.3</td><td>20.3</td><td>25.0</td><td>28.8</td><td>32.1</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>373</td><td>3.6</td><td>6.8</td><td>11.8</td><td>15.3</td><td>18.0</td><td>21.6</td><td>30.5</td><td>37.4</td><td>43.1</td><td>48.3</td></tr> <tr> <td>.</td><td>.</td><td>.</td><td>.</td><td>.</td><td>500</td><td>4.0</td><td>9.2</td><td>15.9</td><td>20.5</td><td>24.2</td><td>28.9</td><td>40.9</td><td>50.1</td><td>57.9</td><td>64.6</td></tr> </tbody> </table>				P/n	Spray angle					Thread	Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)								15°	25°	40°	50°	65°	0.1	0.3	0.5	0.7	1.0	2.0	3.0	4.0	5.0	6.0	3729	25	0.8	0.8	1.0	1.2	1.2	1.5	2.1	2.5	2.9	3.3	3.6	31	0.9	1.0	1.3	1.5	1.5	1.8	2.6	3.1	3.6	4.0	4.4	37	1.0	1.2	1.5	1.7	1.7	2.2	3.1	3.7	4.3	4.8	5.3	43	1.1	1.4	1.8	2.1	2.1	2.5	3.5	4.3	5.0	5.6	6.1	49	1.2	1.6	2.0	2.4	2.4	2.9	4.0	4.9	5.7	6.4	7.0	3731	56	1.2	1.8	2.3	2.7	2.7	3.3	4.6	5.7	6.5	7.2	8.0	62	1.3	2.0	2.6	3.0	3.0	3.6	5.1	6.3	7.2	8.1	8.8	68	1.4	2.2	2.8	3.3	3.3	4.0	5.6	6.9	7.9	8.9	9.7	74	1.4	2.4	3.1	3.6	3.6	4.3	6.1	7.5	8.6	9.6	10.5	3733	80	1.5	2.6	3.3	3.9	3.9	4.7	6.6	8.1	9.3	10.4	11.4	87	1.5	2.8	3.6	4.2	4.2	5.1	7.2	8.8	10.1	11.3	12.4	123	2.0	3.0	3.9	5.1	6.0	7.2	10.2	12.4	14.3	16.1	187	2.4	3.4	6.0	7.7	9.1	10.9	15.4	18.8	21.7	24.3	3734	249	2.8	4.5	7.9	10.2	12.0	14.3	20.3	25.0	28.8	32.1	373	3.6	6.8	11.8	15.3	18.0	21.6	30.5	37.4	43.1	48.3	500	4.0	9.2	15.9	20.5	24.2	28.9	40.9	50.1	57.9	64.6
P/n	Spray angle					Thread	Code		Orifice (mm)	Flow rate (l/min) / pressure (MPa)																																																																																																																																																																																																																																																																																																												
	15°	25°	40°	50°	65°			0.1		0.3	0.5	0.7	1.0	2.0	3.0	4.0	5.0	6.0																																																																																																																																																																																																																																																																																																				
3729	25	0.8	0.8	1.0	1.2	1.2	1.5	2.1	2.5	2.9	3.3	3.6																																																																																																																																																																																																																																																																																																					
	31	0.9	1.0	1.3	1.5	1.5	1.8	2.6	3.1	3.6	4.0	4.4																																																																																																																																																																																																																																																																																																					
	37	1.0	1.2	1.5	1.7	1.7	2.2	3.1	3.7	4.3	4.8	5.3																																																																																																																																																																																																																																																																																																					
	43	1.1	1.4	1.8	2.1	2.1	2.5	3.5	4.3	5.0	5.6	6.1																																																																																																																																																																																																																																																																																																					
	49	1.2	1.6	2.0	2.4	2.4	2.9	4.0	4.9	5.7	6.4	7.0																																																																																																																																																																																																																																																																																																					
3731	56	1.2	1.8	2.3	2.7	2.7	3.3	4.6	5.7	6.5	7.2	8.0																																																																																																																																																																																																																																																																																																					
	62	1.3	2.0	2.6	3.0	3.0	3.6	5.1	6.3	7.2	8.1	8.8																																																																																																																																																																																																																																																																																																					
	68	1.4	2.2	2.8	3.3	3.3	4.0	5.6	6.9	7.9	8.9	9.7																																																																																																																																																																																																																																																																																																					
	74	1.4	2.4	3.1	3.6	3.6	4.3	6.1	7.5	8.6	9.6	10.5																																																																																																																																																																																																																																																																																																					
3733	80	1.5	2.6	3.3	3.9	3.9	4.7	6.6	8.1	9.3	10.4	11.4																																																																																																																																																																																																																																																																																																					
	87	1.5	2.8	3.6	4.2	4.2	5.1	7.2	8.8	10.1	11.3	12.4																																																																																																																																																																																																																																																																																																					
	123	2.0	3.0	3.9	5.1	6.0	7.2	10.2	12.4	14.3	16.1																																																																																																																																																																																																																																																																																																						
	187	2.4	3.4	6.0	7.7	9.1	10.9	15.4	18.8	21.7	24.3																																																																																																																																																																																																																																																																																																						
3734	249	2.8	4.5	7.9	10.2	12.0	14.3	20.3	25.0	28.8	32.1																																																																																																																																																																																																																																																																																																						
	373	3.6	6.8	11.8	15.3	18.0	21.6	30.5	37.4	43.1	48.3																																																																																																																																																																																																																																																																																																						
	500	4.0	9.2	15.9	20.5	24.2	28.9	40.9	50.1	57.9	64.6																																																																																																																																																																																																																																																																																																						

Flat fan nozzles



Material	Material: 303SS, 316SS	 Spray pattern
Description	Deliver high impact solid or fan streams, very small fluids and even to the coverage, spray angle 0°to 110° available.	
Application	Applied to felt low pressure cleaning, chemical spraying, shower pipe and scraper humidifying.	

Specification										
P/n	Thread	L(mm)	H(mm)	n(mm)	n1(mm)	D(mm)	d(mm)	h(mm)	f(mm)	Weight(g)
3735	Rp1/4"	44.5	19.0	10.5	8.0					56.0
37352						14.5	12.5	10.0	12.5	13.0
3761	Rp1/4"	42.5	19	10.5	6.0		14.5	12.5	10.0	49.0
37612										6.5
3762	Rp1/4"	46.5	20.6							60.0
3773	Rp1/8"	53	25.4							120
	Rp1/4"	55	25.4							140
3775	Rp3/8"	49	25.4							120
	Rp1/2"	51	25.4							160

Remark: 1. Dimension will differ a bit in different materials

2. Please always indicate what thread needed

Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)											Spray angle			
		0.03	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	2.0	3.5	0.15	0.3	0.6	1.4
11001	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94°	110°	121°	124°
110015	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	97°	110°	121°	124°
11002	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	98°	110°	120°	123°
11003	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99°	110°	120°	123°
11004	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100°	110°	119°	122°
11005	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100°	110°	118°	122°
11006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	101°	110°	117°	122°
11008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	102°	110°	117°	121°
11010	2.0	1.2	2.3	3.2	39	4.6	5.1	5.6	6.0	7.2	10.2	13.5	103°	110°	117°	119°
11015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	104°	110°	117°	118°
11020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105°	110°	117°	118°
11030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	105°	110°	117°	118°
9501	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	81°	95°	105°	113°
95015	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	82°	95°	105°	113°
9502	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	82°	95°	105°	113°
9503	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	83°	95°	104°	111°
9504	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	84°	95°	103°	108°

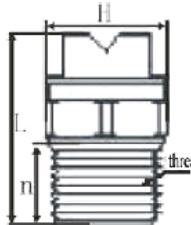
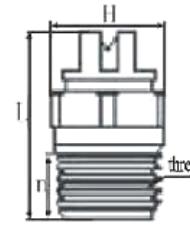
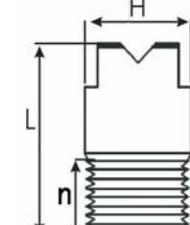
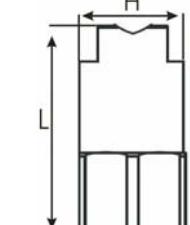
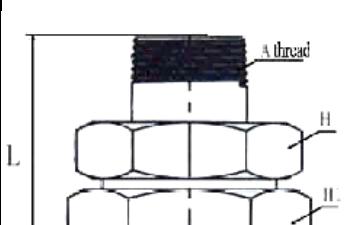
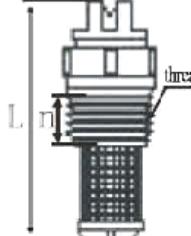
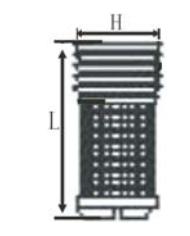
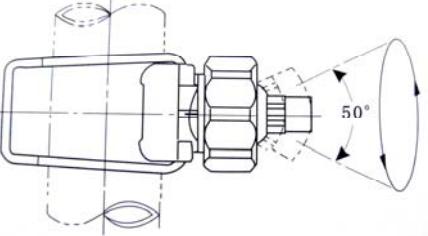
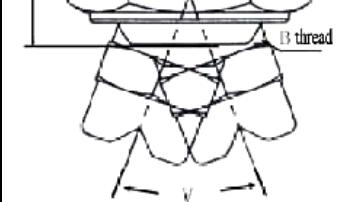
Flat fan nozzles

Technical data																
Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)											Spray angle			
		0.03	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	2.0	3.5	0.15	0.3	0.6	1.4
9505	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	84°	95°	102°	107°
9506	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	86°	95°	101°	106°
9508	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	87°	95°	100°	105°
9510	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	89°	95°	100°	105°
9515	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90°	95°	100°	105°
9520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	74°	80°	83°	86°
9530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	74°	80°	83°	85°
800050	0.46		0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	61°	80°	95°	101°
800067	0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	67°	80°	94°	99°
8001	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	68°	80°	89°	92°
80002	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	69°	80°	88°	91°
8004	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	71°	80°	86°	89°
8006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	72°	80°	85°	88°
8010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	73°	80°	84°	87°
8015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	74°	80°	83°	86°
730023	0.30		0.05	0.07	0.09	0.10	0.11	0.12	0.14	0.17	0.23	0.31	50°	73°	89°	97°
730039	0.41		0.05	0.13	0.15	0.18	0.2	0.22	0.24	0.28	0.4	0.53	53°	73°	87°	93°
730077	0.56		0.09	0.25	0.3	0.35	0.39	0.43	0.46	0.55	0.78	1	53°	73°	86°	92°
730116	0.71	0.14	0.18	0.37	0.46	0.53	0.59	0.65	0.7	0.84	1.2	1.6	54°	73°	85°	90°
730154	0.81	0.19	0.26	0.5	0.61	0.7	0.78	0.86	0.93	1.1	1.6	2.1	55°	73°	84°	88°
730231	1.0	0.29	0.35	0.74	0.91	1.1	1.2	1.3	1.4	1.7	2.4	3.1	56°	73°	83°	87°
730308	1.1	0.38	0.53	0.99	1.2	1.4	1.6	1.7	1.9	2.2	3.1	4.2	58°	73°	82°	86°
730385	1.3	0.48	0.70	1.2	1.5	1.8	2	2.1	2.3	2.8	3.9	5.2	59°	73°	81°	85°
730462	1.4	0.58	0.88	1.5	1.8	2.1	2.4	2.6	2.8	3.3	4.7	6.2	60°	73°	80°	84°
730616	1.7	0.77	1.1	2	2.4	2.8	3.1	3.4	3.7	4.4	6.3	8.3	63°	73°	79°	83°
730770	1.8	0.96	1.4	2.5	3	3.5	3.9	4.3	4.6	5.5	7.8	10.4	64°	73°	77°	82°
730924	2.0	1.2	2.1	3	3.6	4.2	4.9	5.2	5.6	6.7	9.4	12.5	65°	73°	77°	80°
650017	0.28		0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.17	0.23	0.44	44°	65°	77°	86°
650025	0.33		0.08	0.10	0.11	0.13	0.14	0.15	0.18	0.25	0.34	0.45	45°	65°	77°	84°
650033	0.38		0.11	0.13	0.15	0.17	0.18	0.20	0.24	0.34	0.44	0.47	47°	65°	76°	83°
650050	0.46		0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	0.88	48°	65°	75°	82°
650067	0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	50°	65°	75°	81°
6501	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	51°	65°	74°	80°
65015	0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	51°	65°	74°	80°
6502	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	52°	65°	73°	79°
6503	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	53°	65°	72°	78°
6504	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	53°	65°	72°	76°
6505	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	53°	65°	72°	76°
6506	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	54°	65°	72°	75°
6508	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	55°	65°	71°	74°
6510	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	56°	65°	71°	74°
6515	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	56°	65°	70°	73°
6520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	57°	65°	70°	73°
6530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	58°	65°	69°	72°
5001	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	37°	50°	59°	65°
50015	0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.9	1.1	1.5	2.0	38°	50°	58°	64°
5002	0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°
5003	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	40°	50°	57°	63°
5004	1.3	0.5	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	42°	50°	56°	61°
5005	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	44°	50°	56°	61°

Flat fan nozzles

Technical data																	
Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)											Spray angle				
		0.03	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	2.0	3.5	0.15	0.3	0.6	1.4	
5006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	45°	50°	56°	60°	
5008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	45°	50°	55°	60°	
5010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	45°	50°	55°	59°	
5015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	45°	50°	55°	59°	
5020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	45°	50°	55°	59°	
5030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	45°	50°	55°	59°	
4001	0.66			0.32	0.39	0.46	0.51	0.56	0.6	0.72	1.0	1.3	26°	40°	52°	59°	
40015	0.79			0.48	0.59	0.68	0.76	0.84	0.9	1.1	1.5	2.0	27°	40°	52°	59°	
4002	0.91			0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	29°	40°	51°	58°
4003	1.1			0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	30°	40°	50°	57°
4004	1.3			0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	30°	40°	50°	56°
4005	1.4			1.1	1.6	2.0	2.3	2.5	2.8	3	3.6	5.1	6.7	31°	40°	49°	55°
4006	1.6			1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	31°	40°	49°	55°
4008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	31°	40°	47°	53°	
4010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6	7.2	10.2	13.5	32°	40°	45°	48°	
4015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9	10.8	15.3	20	32°	40°	45°	48°	
4020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	32°	40°	45°	48°	
4030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	33°	40°	45°	48°	
2501	0.66			0.32	0.39	0.46	0.51	0.56	0.6	0.72	1.0	1.3	14°	25°	34°	42°	
25015	0.79			0.34	0.48	0.59	0.68	0.76	0.83	0.9	1.1	1.5	2.0	15°	25°	34°	41°
2502	0.91			0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	15°	25°	33°	40°
2503	1.1			0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	15°	25°	33°	40°
2504	1.3			0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	16°	25°	32°	39°
2505	1.4			1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	16°	25°	32°	39°
2506	1.6			1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	17°	25°	31°	38°
2508	1.8			1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	17°	25°	31°	38°
2510	2.0			2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	18°	25°	31°	37°
2515	2.4			3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	18°	25°	31°	37°
2520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	19°	25°	31°	37°	
2530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	20°	25°	30°	36°	
1501	0.66			0.32	0.39	0.46	0.51	0.56	0.6	0.72	1.0	1.3		15°	24°	28°	
15015	0.79			0.48	0.59	0.68	0.76	0.84	0.9	1.1	1.5	2.0		15°	23°	27°	
1502	0.91			0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	6°	15°	22°	27°	
1503	1.1			0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	6°	15°	21°	27°	
1504	1.3			1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	7°	15°	21°	26°	
1505	1.4			1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	7°	15°	21°	26°	
1506	1.6			1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	8°	15°	20°	26°
1508	1.8			1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	9°	15°	19°	25°
1510	2.0			2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	10°	15°	19°	24°
1515	2.4			3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	10°	15°	19°	24°
1520	2.8			4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	10°	15°	19°	23°
1530	3.6			6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	10°	15°	19°	21°

Flat fan nozzles

										
										
Material	Material: Brass, 303SS, 316SS									
Description	Deliver high impact solid or fan streams, very small fluids and even to the coverage, spray angle 0°to 110° available.									
Application	Applied to felt low pressure cleaning, chemical spraying, paper and roller humidifying, shower pipe cleaning.									
										
										
Specification										
P/n	Thread	Stabilizer	A	B	L(mm)	n(mm)	H(mm)	H1(mm)	V(°)	Weight(g)
3811	Rp1/4"				23.0	10.0	14.0			20.0
3813	Rp1/4"				23.5	10.0	14.0			20.0
3814	Rc1/4"				31.8	10	14.3			35.7
3815	Rp1/4"				25.4	10	14.3			21.3
3811-X	Rp1/4"	Yes			23.0	10.0	14.0			20.0
3811-Fp	Rp1/4"				36.0	10.0	14.0			30.0
38110	Rp3/8"-24				19.0	5.0	9.0			10.0
3831	1/8×1/8		1/8	1/8	32.0		20.7	20.7	55°	56.8
	1/4×1/4		1/4	1/4	38.0		28.7	25.4	70°	111.0
	3/8×1/4		3/8	3/8	44.6		38.1	35.1	70°	244.0
	3/8×3/8		3/8	3/8	45.3		38.1	35.1	55°	244.0
	1/2×3/8		1/2	1/2	50.5		44.5	41.4	55°	366.0
	1/2×1/2		1/2	1/2	50.5		44.5	41.4	60°	346.0
	3/4×1/2		3/4	3/4	54.3		50.8	47.8	40°	505.0
	3/4×3/4		3/4	3/4	54.3		50.8	47.8	40°	465.0
	1×1		1	1	76.5		62.0	57.2	40°	967.0
Remark: 1. Dimension will differ a bit in different materials					2. Please always indicate what thread needed					

Flat fan nozzles

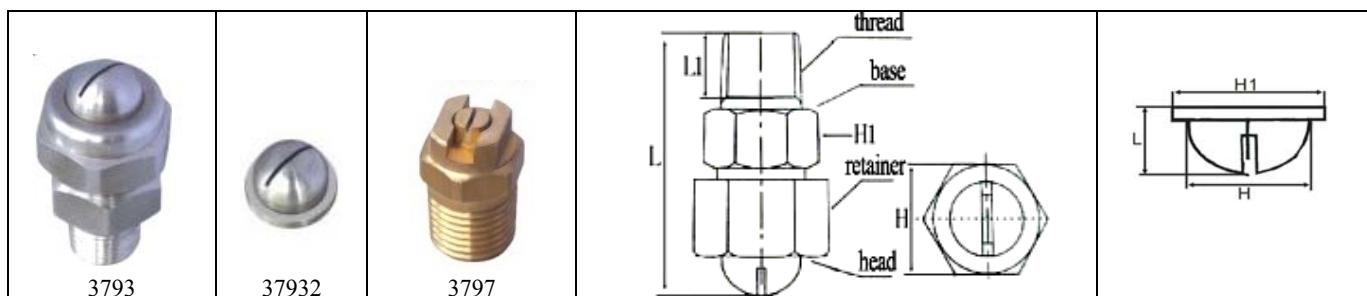
Technical data																
Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)											Spray angle			
		0.03	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	2.0	3.5	0.15	0.3	0.6	1.4
11001	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94°	110°	121°	124°
110015	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	97°	110°	121°	124°
11002	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	98°	110°	120°	123°
11003	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99°	110°	120°	123°
11004	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100°	110°	119°	122°
11005	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100°	110°	118°	122°
11006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	101°	110°	117°	122°
11008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	102°	110°	117°	121°
11010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	103°	110°	117°	119°
11015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	104°	110°	117°	118°
11020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105°	110°	117°	118°
9501	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	81°	95°	105°	113°
95015	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.9	1.1	1.5	2.0	82°	95°	105°	113°
9502	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	82°	95°	105°	113°
9503	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	83°	95°	104°	111°
9504	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	84°	95°	103°	108°
9505	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	84°	95°	102°	107°
9506	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	86°	95°	101°	106°
95065	1.7	0.8	1.5	2.1	2.6	3.0	3.3	3.6	3.9	4.7	6.6	8.8	86°	95°	100°	105°
9508	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	87°	95°	100°	105°
9510	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	89°	95°	100°	105°
9515	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90°	95°	100°	105°
9520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	90°	95°	100°	105°
9530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	91°	95°	101°	105°
9540	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	92°	95°	100°	105°
9550	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	93°	95°	99°	103°
9560	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	93°	95°	99°	103°
9570	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	93°	95°	99°	103°
9580	5.6	10.0	18.2	26	32	36	41	45	48	58	82	108	93°	95°	99°	102°
95100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	93°	95°	99°	102°
800050	0.4		0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	61°	80°	95°	101°
800067	0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	67°	80°	94°	99°
8001	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	68°	80°	89°	92°
80015	0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.9	1.1	1.5	2.0	68°	80°	89°	92°
8002	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	69°	80°	88°	91°
8003	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	70°	80°	87°	90°
8004	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	71°	80°	86°	89°
8005	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	71°	80°	86°	89°
8006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	72°	80°	85°	88°
8007	1.7	0.9	1.6	2.3	2.8	3.2	3.6	3.9	4.2	5.0	7.1	9.4	72°	80°	85°	88°
8008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	72°	80°	84°	87°
8009	1.9	1.1	2.1	2.9	3.6	4.1	4.6	5.0	5.4	6.5	9.2	12.1	73°	80°	84°	87°
8010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	73°	80°	84°	87°
8015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	74°	80°	83°	86°
8020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	74	80°	83°	86°
8030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	74	80°	83°	86°
8040	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	74	80°	83°	86°
8050	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	74	80°	83°	85°
8060	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	75	80°	83°	85°
8070	5.2	8.7	16	23	28	32	36	39	42	50	71	94	75	80°	83°	86°
80100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	75	80°	83°	86°
730077	0.56		0.18	0.25	0.3	0.35	0.39	0.43	0.46	0.55	0.78	1.0	53°	73°	86°	92°
730154	0.81	0.19	0.35	0.5	0.61	0.7	0.78	0.86	0.93	1.1	1.6	2.1	55°	73°	84°	88°
730231	1.0	0.29	0.53	0.74	0.91	1.1	1.2	1.3	1.4	1.7	2.4	3.1	56°	73°	83°	87°
730308	1.1	0.38	0.70	0.99	1.2	1.4	1.6	1.7	1.9	2.2	3.1	4.2	58°	73°	82°	86°
730462	1.4	0.58	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.2	4.7	6.2	60°	73°	80°	84°
730770	1.8	0.96	1.8	2.5	3.0	3.5	3.9	4.3	4.6	5.5	7.8	10.4	64°	73°	77°	82°
650017	0.28			0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.17	0.23	44°	65°	77°	86°
650025	0.33			0.08	0.10	0.11	0.13	0.14	0.15	0.18	0.25	0.34	45°	65°	77°	84°
650033	0.38			0.11	0.13	0.15	0.17	0.18	0.20	0.24	0.34	0.44	47°	65°	76°	83°
650050	0.46			0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	48°	65°	75°	82°
650067	0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	50°	65°	75°	81°
6501	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	51°	65°	74°	80°
65015	0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	51°	65°	74°	80°
6502	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	52°	65°	73°	79°
65025	1.0	0.31	0.57	0.81	0.99	1.1	1.3	1.4	1.5	1.8	2.5	3.4	52°	65°	73°	79°
6503	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	53°	65°	72°	78°
6504	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	53°	65°	72°	76°
6505	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	53°	65°	72°	76°
65055	1.5	0.7	1.3	1.8	2.2	2.5	2.8	3.1	3.3	4.0	5.6	7.4	53°	65°	72°	76°
6506	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	54°	65°	72°	

Flat fan nozzles

Technical data																
Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)										Spray angle				
		0.03	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	2.0	3.5	0.15	0.3	0.6	
6507	1.7	0.9	1.6	2.3	2.8	3.2	3.6	3.9	4.2	5.0	7.1	9.4	54°	65°	71°	75°
6508	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	55°	65°	71°	74°
6509	1.9	1.1	2.1	2.9	3.6	4.1	4.6	5.0	5.4	6.5	9.2	12.1	55°	65°	71°	74°
6510	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	56°	65°	71°	74°
6512	2.3	1.5	2.7	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	56°	65°	71°	73°
6515	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	56°	65°	70°	73°
6520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	57°	65°	70°	73°
6525	3.2	3.1	5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	25	34	57°	65°	69°	73°
6530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	58°	65°	69°	72°
6540	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	59°	65°	68°	72°
6550	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	60°	65°	68°	71°
6560	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	60°	65°	68°	71°
6570	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	60°	65°	68°	71°
65100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	60°	65°	68°	71°
5001	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.6	0.72	1.0	1.3	37°	50°	59°	65°
5002	0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°
5003	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	40°	50°	56°	62°
5004	1.3	0.5	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	42°	50°	56°	61°
5005	1.5	0.7	1.3	1.8	2.2	2.5	2.8	3.1	3.3	4.0	5.6	7.4	44°	50°	56°	61°
50055	1.5	0.7	1.3	1.8	2.2	2.5	2.8	3.1	3.3	4.0	5.6	7.4	44°	50°	56°	61°
5006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	45°	50°	56°	60°
5007	1.7	0.9	1.6	2.3	2.8	3.2	3.6	3.9	4.2	5.0	7. 1	9.4	45°	50°	56°	60°
5008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	45°	50°	55°	60°
5009	1.9	1.1	2.1	2.9	3.6	4.1	4.6	5.0	5.4	6.5	9.2	12.1	45°	50°	55°	59°
5010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	45°	50°	55°	59°
5015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	45°	50°	55°	59°
5020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	45°	50°	55°	59°
5030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	45°	50°	55°	59°
5040	4.0	50	9.1	12.9	15.8	18.2	20	22	24	29	41	54	45°	50°	54°	59°
5050	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	46°	50°	54°	59°
5060	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	46°	50°	54°	59°
5070	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	46°	50°	54°	59°
5080	5.6	10	18.2	26	32	36	41	45	48	58	82	108	45°	50°	53°	58°
5085	5.8	106	19.4	27	34	39	43	47	51	61	87	115	45°	50°	53°	57°
5090	5.9	11.2	21	29	36	41	46	50	54	65	92	121	45°	50°	53°	56°
50100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	44°	50°	52°	54°
4001	0.66		0.32	0.39	0.46	0.51	0.56	0.6	0.72	1.0	1.3	26°	40°	52°	59°	
40015	0.79		0.48	0.59	0.68	0.76	0.84	0.9	1.1	1.5	2.0	27°	40°	52°	59°	
4002	0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	29°	40°	51°	58°
4003	1.1		0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	30°	40°	50°	57°
4004	1.3		0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	30°	40°	50°	56°
4005	1.4		1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	31°	40°	49°	55°
40055	1.5	0.7	1.3	1.8	2.2	2.5	2.8	3.1	3.3	4.0	5.6	7.4	31°	40°	49°	55°
4006	1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	31°	40°	49°	55°
40065	1.7	0.8	1.5	2.1	2.6	3.0	3.3	3.6	3.9	4.7	6.6	8.8	31°	40°	48°	54°
4007	1.7	0.9	1.6	2.3	2.8	3.2	3.6	3.9	4.2	5.0	7.1	9.4	31°	40°	48°	54°
4008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	31°	40°	47°	53°
40085	1.9	1.1	1.9	2.7	3.4	3.9	4.3	4.7	5.1	6.1	8.7	11.5	32°	40°	46°	50°
4009	1.9	1.1	2.1	2.9	3.6	4.1	4.6	5.0	5.4	6.5	9.2	12.1	32°	40°	46°	50°
4010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	32°	40°	45°	48°
4015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	32°	40°	45°	48°
4020	2.8	2.5	4.6	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	32°	40°	45°	48°
4030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	21	40	33°	40°	45°	48°
4040	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	34°	40°	45°	48°
4050	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	35°	40°	45°	48°
4060	4.8	7.5	13.7	19.3	24	27	21	22	26	43	61	81	35°	40°	45°	48°
4070	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	35°	40°	45°	48°
4080	5.6	10.0	18.2	26	32	36	41	45	48	58	82	108	35°	40°	44°	47°
40100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	34°	40°	43°	46°
2501	0.66		0.32	0.39	0.46	0.51	0.56	0.6	0.72	1.0	1.3	14°	25°	34°	42°	
2502	0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	15°	25°	33°	40°
2503	1.1		0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	15°	25°	33°	40°

Flat fan nozzles

Technical data																
Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)											Spray angle			
		0.03	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	2.0	3.5	0.15	0.3	0.6	1.4
2504	1.3		0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	15°	25°	32°	39°
25045	1.4	0.6	1.0	1.5	1.8	2.1	2.3	2.5	2.7	3.2	4.6	6.1	15°	25°	32°	39°
2505	1.4		1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	16°	25°	32°	39°
25055	1.4	0.7	1.3	1.8	2.2	2.5	2.8	3.1	3.3	4.0	5.6	7.4	16°	25°	31°	39°
2506	1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	17°	25°	31°	38°
25065	1.7	0.8	1.5	2.1	2.6	3.0	3.3	3.6	3.9	4.7	6.6	8.8	17°	25°	31°	38°
2507	1.7	0.9	1.6	2.3	2.8	3.2	3.6	3.9	4.2	5.0	7.1	9.4	17°	25°	31°	38°
25075	1.8	0.9	1.7	2.4	3.0	3.4	3.8	4.2	4.5	5.4	7.6	10.1	17°	25°	31°	38°
2508	1.8		1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	17°	25°	31°	38°
25085	1.9	1.1	1.9	2.7	3.4	3.9	4.3	4.7	5.1	6.1	8.7	11.5	18°	25°	31°	37°
2509	1.9	1.1	2.1	2.9	3.6	4.1	4.6	5.0	5.4	6.5	9.2	12.1	18°	25°	31°	37°
2510	2.0		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	18°	25°	31°	37°
2515	2.4		3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	18°	25°	31°	37°
2520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	19°	25°	31°	37°
2530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	20°	25°	30°	36°
2540	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	21°	25°	29°	35°
2550	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	21°	25°	29°	35°
2560	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	22°	25°	29°	35°
2570	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	22°	25°	28°	32°
25100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	23°	25°	28°	32°
1501	0.66			0.32	0.39	0.46	0.51	0.56	0.6	0.72	1.0	1.3		15°	24°	28°
1502	0.91			0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	6°	15°	22°	27°
1503	1.1			0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	6°	15°	22°	27°
1504	1.3			1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	7°	15°	21°	26°
1505	1.4			1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	7°	15°	21°	26°
15055	1.5	0.7	1.3	1.8	2.2	2.5	2.8	3.1	3.3	4.0	5.6	7.4	7°	15°	21°	26°
1506	1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	8°	15°	21°	26°
15065	1.7	0.8	1.5	2.1	2.6	3.0	3.3	3.6	3.9	4.7	6.6	8.8	8°	15°	20°	25°
1507	1.7	0.9	1.6	2.3	2.8	3.2	3.6	3.9	4.2	5.0	7.1	9.4	8°	15°	20°	25°
1508	1.8		1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	9°	15°	20°	25°
15085	1.9	1.1	1.9	2.7	3.4	3.9	4.3	4.7	5.1	6.1	8.7	11.5	9°	15°	19°	24°
1509	1.9	1.1	2.1	2.9	3.6	4.1	4.6	5.0	5.4	6.5	9.2	12.1	9°	15°	19°	24°
1510	2.0		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	10°	15°	19°	24°
1515	2.4		3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	10°	15°	19°	24°
1520	2.8		4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	10°	15°	19°	23°
1530	3.6		6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	10°	15°	19°	21°
1540	4.0		9.1	12.9	15.8	18.2	20	22	24	29	41	54	10°	15°	18°	21°
1550	4.4		11.4	16.1	19.7	23	25	28	30	36	51	68	11°	15°	18°	21°
1560	4.8		13.7	10.3	24	27	31	33	36	43	61	81	11°	15°	18°	21°
1570	5.2		16.0	23	28	32	36	39	42	50	71	94	11°	15°	18°	21°
15100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	13°	15°	17°	18°



Material	Material: Brass, 303SS, 316SS	
Description	Usually used to spray gas and steam, in very even shapes, can only reach very short distance.	
Application	Applied to felt cleaning and humidifying.	

Specification

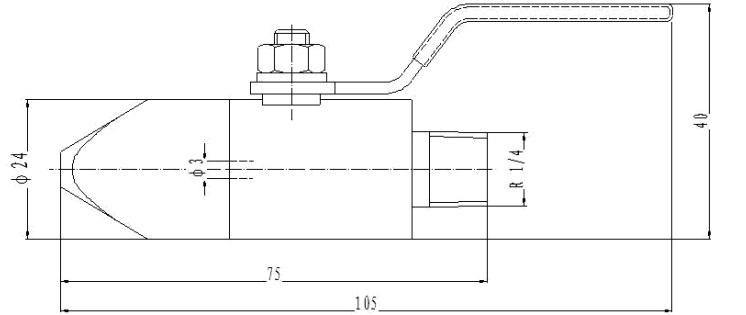
P/n	Threads	L(mm)	L1(mm)	H(mm)	H1(mm)	Weight(g)
3793	Rp 1/4"	43.0	10.5	19.0	17.0	44.0
	Rp 3/8"	48.5	11.0	23.0	21.0	73.0
37932		11.0		14.5	12.5	4.7
		14.0		18.0	16.0	7.7
3797						

Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed

Technical data

Thread		Flow rate (l/min) / pressure (MPa)							Flow rate (l/hr) / pressure (MPa)							Orifice (mm)			
1/4	3/8	0.05	0.1	0.2	0.3	0.5	0.7	0.05	0.1	0.2	0.3	0.5	0.7	0.05	0.1	0.2	0.3	0.5	0.7
.	.	55.7	77.6	116.0	154.0	230.0	307.0	2.62	3.56	5.27	6.97	10.3	13.7	0.2					
.	.	7.31	102.0	152.0	202.0	302.0	402.0	3.44	4.67	6.92	9.14	13.6	17.9	0.3					
.	.	90.5	126.0	188.0	250.0	374.0	498.0	4.26	5.78	8.57	11.3	16.8	22.2	0.4					
.	.	108.0	150.0	224.0	298.0	446.0	594.0	5.08	6.90	10.2	13.5	20.0	26.5	0.5					
.	.	125.0	175.0	261.0	346.0	518.0	690.0	5.90	8.00	11.9	15.7	23.2	30.7	0.6					
.	.	143.0	199.0	297.0	394.0	590.0	786.0	6.72	9.12	13.5	17.9	26.5	35.0	0.7					
.	.	160.0	223.0	333.0	443.0	662.0	882.0	7.54	10.2	15.2	20.0	29.7	39.3	0.8					
.	.	177.0	247.0	369.0	491.0	734.0	977.0	8.36	11.3	16.8	22.2	32.9	43.5	0.9					
.	.	199.0	278.0	414.0	551.0	823.0	1096.0	9.38	12.7	18.8	24.9	36.9	48.8	0.6					
.	.	219.0	305.0	455.0	605.0	905.0	1205.0	10.3	14.0	20.7	27.4	40.6	53.7	0.7					
.	.	235.0	328.0	489.0	650.0	972.0	1295.0	11.1	15.0	22.3	294	43.6	57.7	0.8					
.	.	253.0	353.0	526.0	700.0	1047.0	1394.0	11.9	16.2	24.0	31.7	46.9	62.1	0.8					
.	.	272.0	380.0	566.0	753.0	1126.0	1500.0	12.8	17.4	25.8	34.1	50.5	66.8	0.9					
.	.	326.0	454.0	677.0	901.0	1347.0	1794.0	15.3	20.8	30.8	40.7	60.4	79.9	1.1					
.	.	406.0	566.0	844.0	1122.0	1678.0	2235.0	19.1	25.9	38.4	50.8	75.2	99.5	1.4					

Ball valve fan nozzles

 3851													
Material	Material: 303SS, 316SS												
Description	Deliver high impact narrow fan even stream, big orifice can well avoid the blocking.												
Application	Applied to high impact cleaning, deckle cleaning, net side cleaning and disc pulp stripping.		 Spray pattern										
Specification													
Total length(mm)	Body length(mm)	Total width(mm)	Body width(mm)										
105.0	75.0	40.0	24.0										
			Rp 1/4" Rp 3/8" Rp 1/2"										
Remark: 1. Dimension will differ a bit in different materials													
2. Please always indicate what thread needed													
Technical data													
Spray angle 0.3 MPa	Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)							Spray angle			
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	0.1	0.3	0.7
50°	5010	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	34°	50°	60°
	5025	2.8	5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	42°	50°	59°
	5030	3.0	7.4	10.0	12.2	14.5	16.3	18.0	19.0	22.5	40°	50°	59°
	5040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	39°	50°	60°
	5060	4.8	13.7	19.3	24	27	31	33	36	43	42°	50°	53°
40°	4040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	31°	40°	50°
	4050	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	40°	49°
	4060	4.4	13.7	19.3	24	27	31	33	36	43	32°	40°	49°
	4070	5.2	16.0	23	28	32	36	39	42	50	32°	40°	49°
35°	3504	1.2	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	20°	35°	41°
	3510	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	18°	35°	39°
	3520	2.8	4.6	6.4	7.9	9.1	10.2	11.2	12.1	14.4	24°	35°	40°
	3525	2.8	5.7	8.1	9.91	11.4	12.7	14.0	15.1	18.0	24°	35°	39°
	3530	3.2	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	26°	35°	41°
	3540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	28°	35°	38°
	3550	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	35°	38°
	3560	4.4	13.7	19.3	24	27	31	33	36	43	29°	35°	39°
25°	3580	5.2	18.2	26	32	36	41	45	48	58	26°	35°	34°
	2540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	15°	25°	40°
	1540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	8°	15°	21°
	1550	4.4	11.4	16.1	19.7	23	25	28	30	36	9°	15°	20°
15°	1560	4.8	12.7	19.3	24	27	31	33	36	43	10°	15°	19°
	1580	5.2	18.2	26	.32	36	41	45	48	58	11°	15°	18°

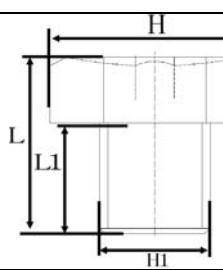
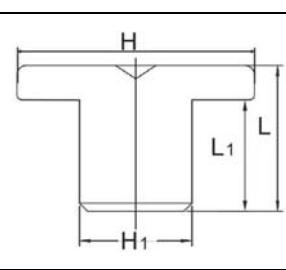
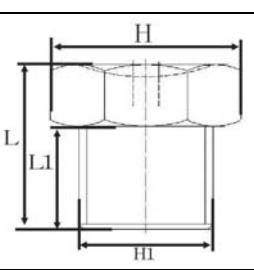
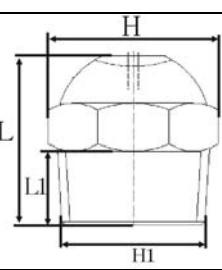
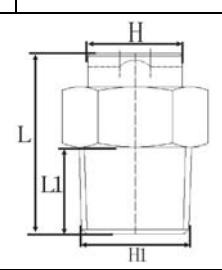
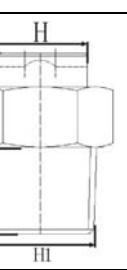
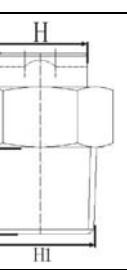
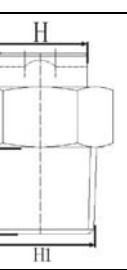
Deckle fan nozzles

3853	3855	38551	38552	38553	38554	3857							
Material	Material: Brass, 303SS, 316SS												
Description	Deliver high impact narrow fan even stream, big orifice can well avoid the blocking. Quick-disconnect design make it easy for replacement.												
Application	Applied to high impact cleaning, deckle cleaning, net side cleaning and disc pulp stripping.												
Specification													
P/n	Thread B	C(mm)	L(mm)	V(mm)	Weight (g)								
					Cu	304SS							
3853	Rp1/4"、Rp3/8"、Rp1/2"	20.0	45.5	45°		65.7							
3855	Rp1/4"、Rp3/8"、Rp1/2"	22.0	66.0	45°		115.0							
38551	Quike-disconnect	22.0	43.5	45°		74.2							
38552	Quike-disconnect	20.0	45.0	60°		75.2							
38553	Rp1/4"、Rp3/8"、Rp1/2"	22.0	30.0			40.0							
38554	Rc1/4"、Rc3/8"、Rc1/2"	22.0	30.0			41.5							
3857	Rp1/4"、Rp3/8"、Rp1/2"	24.0	83.0	32°	215.0								
Remark:	1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed									
Technical data													
Spray angle 0.3 MPa	Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)						Spray angle				
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	0.1	0.3	0.7
50°	5010	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	34°	50°	60°
	5025	2.8	5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	42°	50°	59°
	5040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	39°	50°	60°
	5060	4.8	13.7	19.3	24	27	31	33	36	43	42°	50°	53°
40°	4040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	31°	40°	50°
	4050	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	40°	49°
	4060	4.4	13.7	19.3	24	27	31	33	36	43	32°	40°	49°
	4070	5.2	16.0	23	28	32	36	39	42	50	32°	40°	49°
35°	3504	1.2	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	20°	35°	41°
	3510	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	18°	35°	39°
	3520	2.8	4.6	6.4	7.9	9.1	10.2	11.2	12.1	14.4	24°	35°	40°
	3525	2.8	5.7	8.1	9.91	11.4	12.7	14.0	15.1	18.0	24°	35°	39°
	3530	3.2	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	26°	35°	41°
	3540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	28°	35°	38°
	3550	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	35°	38°
	3560	4.4	13.7	19.3	24	27	31	33	36	43	29°	35°	39°
15°	3580	5.2	18.2	26	32	36	41	45	48	58	26°	35°	34°
	1540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	8°	15°	21°
	1550	4.4	11.4	16.1	19.7	23	25	28	30	36	9°	15°	20°
	1560	4.8	12.7	19.3	24	27	31	33	36	43	10°	15°	19°
	1580	5.2	18.2	26	.32	36	41	45	48	58	11°	15°	18°

Deflected fan nozzles

Material	Material: Brass, 303SS, 316SS												
Description	Deliver wide angle even fan spray and medium impact stream, stream spray out with a certain angle from the axis.												
Application	Applied to felt low pressure cleaning, felt humidifying, roller and scraper lubricating and cooling.												
						 Spray pattern							
Specification													
Thread	Deflected angle	L(mm)	H(mm)	Connection size(mm)	Weight(g)								
1/8"	75°	25.4	11.2	12.8	14.0								
1/4"	75°	35.0	14.2	16.0	35.0								
3/8"	75°	44.6	17.5	19.2	72.0								
1/2"	75°	51.0	22.4	22.4	177.0								
3/4"	75°	66.5	38.2	38.2	345.0								
1"	75°	86.0	50.9	50.9	908.0								
Remark: 1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed										
Technical data													
Thread	Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)								Spray angle		
			0.02	0.03	0.05	0.07	0.1	0.15	0.2	0.3	0.4	0.05	0.15
1/8		1	0.84			0.38	0.46	0.56	0.64	0.79	0.91	109°	128°
1/8	1/4	1.5	1.0			0.48	0.57	0.68	0.84	0.97	1.2	1.4	73°
1/8	1/4	5	1.2			0.64	0.76	0.91	1.1	1.3	1.6	1.8	83°
1/8	1/4	2.5	1.3		0.62	0.81	0.95	1.1	1.4	1.6	2.0	2.3	98°
1/8	1/4	3	1.4		0.75	0.97	1.1	1.4	1.7	1.9	2.4	2.7	86°
1/8	1/4	4	1.7		1.0	1.3	1.5	1.8	2.2	2.6	3.2	3.6	97°
1/8	1/4	5	1.9	1.0	1.2	1.6	1.9	2.3	2.8	3.2	3.9	4.6	114°
1/8	1/4	7.5	2.3	1.5	1.9	2.4	2.9	3.4	4.2	4.8	5.9	6.8	101°
1/8	1/4	10	2.6	2.0	2.5	3.2	3.8	4.6	5.6	6.4	7.9	9.1	115°
1/8	1/4	12	2.9	2.4	3.0	3.9	4.6	5.5	6.7	7.7	9.5	10.9	128°
1/8	1/4	15	3.3	3.1	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	98°
1/8	1/4	18	3.6	3.7	4.5	5.8	6.9	8.2	10.0	11.6	14.2	16.4	106°
1/8	1/4	20	3.8	4.1	5.0	6.4	78.6	9.1	11.2	12.9	15.8	18.2	110°
	1/4	22	4.0	4.5	5.5	7.1	8.4	10.0	12.3	14.2	17.4	20	113°
	1/4	24	4.1	4.9	6.0	7.7	9.2	10.9	13.4	15.5	18.9	22	115°
	Material	Material: 303SS, 316SS						Material	Material: 303SS, 316SS				
	Description	Deliver high impact fan stream.						Description	Deliver high impact fan stream				
	Application	Round net deckle cleaning.						Application	Pulp cleaning.				
	Slot	0.8 mm~3.0 mm						Slot	0.6 mm~3.0 mm				

Flat fan nozzles

							
3565	3567	3569	3571	3573	3575	3577	3579
Material	Material: 303SS, 316SS						
Description	Deliver low or medium impact fan stream, narrow spray angles available.						
Application	Applied to high impact cleaning, net side cleaning and felt cleaning.						
							
							
Spray pattern							
Specification							
P/n	Thread	L(mm)	L1(mm)	H(mm)	H1(mm)	Weight(g)	
3565	Rp3/8"	15.5	6.0	14.0	14.0	20.0	
3567	Mp10×1.5	12.5	9.0	12.0	9.5	20.0	
3569	Rp3/8"	26.5	10.0	19.0	17.0	40.0	
3571	Mp14×1	15.5	6.0	16.0	14.0	20.0	
3573	Mp8×1.25、Mp14×1	14.5	10.0	23.5	13.5	30.0	
3575	Mp27×1.5	31.0	26.0	31.0	13.0	50.0	
3577	Mp27×1.5	22.5	10.0	25.5	11.0	35.0	
3579	Rp3/8"	26.5	10.0	19.0	17.0	40.0	

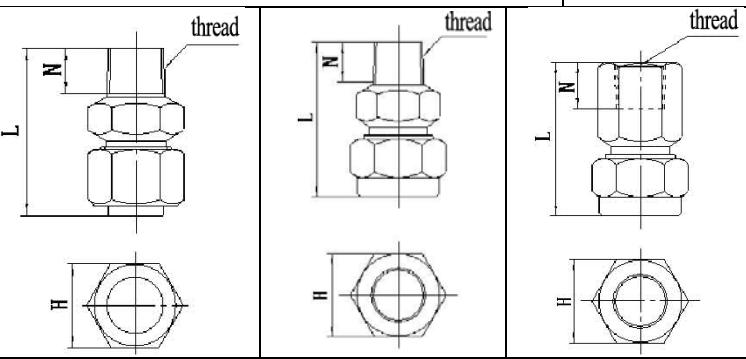
Remark: 1. Dimension will differ a bit in different materials

2. Please always indicate what thread needed

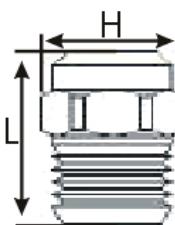
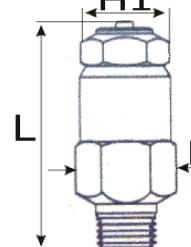
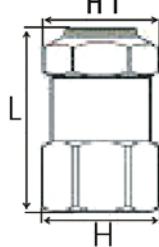
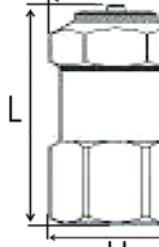
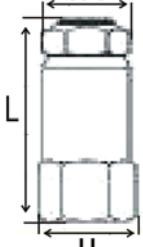
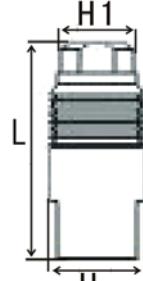
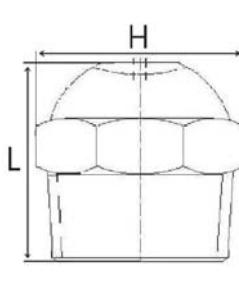
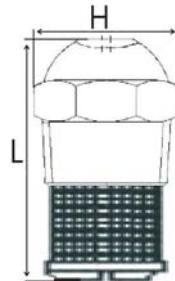
Technical data

Orifice (mm)	Flow rate (l/min) / pressure (MPa)						
	0.6	0.8	1.0	1.4	1.8	2.4	3.0
0.14	0.314	0.452	0.565	1.14	1.62	2.95	3.0
0.21	0.352	0.528	0.751	1.36	2.04	3.78	5.68
0.28	0.398	0.612	0.848	1.51	2.54	4.47	6.82
0.34	0.447	0.680	0.945	1.70	2.90	5.00	7.38
0.41	0.484	0.742	1.06	1.81	3.18	5.50	8.25
0.48	0.523	0.810	1.14	2.00	3.47	5.68	9.27
0.55	0.560	0.830	1.21	2.18	3.70	6.17	9.46
0.62	0.587	0.905	1.27	2.38	3.92	6.55	10.02
0.69	0.635	0.945	1.35	2.54	4.15	6.82	10.41
0.82	0.700	1.060	1.47	2.68	4.52	7.5	10.60
0.96	0.745	1.140	1.59	2.80	4.90	8.13	13.55
1.10	0.802	1.22	1.70	3.06	5.22	8.55	13.86
1.24	0.805	1.28	1.79	3.26	5.51	9.08	14.00
1.37	0.900	1.35	1.89	3.44	5.90	9.58	14.75
1.51	0.946	1.41	2.00	3.64	6.13	10.02	16.65
2.10	1.032	1.74	2.25	4.35	7.27	11.57	20.8
2.50	1.115	1.85	1.36	4.63	8.46	1.287	21.6
2.75	1.255	1.97	2.56	4.91	8.65	15.12	22.7
3.44	1.42	2.24	2.84	5.30	9.46	16.10	24.6
4.12	1.63	2.45	3.31	5.68	10.4	17.48	28.4
4.81	1.70	2.65	3.55	6.31	11.2	18.92	34.10
5.50	1.82	2.84	3.78	6.61	11.8	20.81	37.85
6.18	1.86	3.00	4.09	7.00	12.5	22.8	39.72
6.87	1.89	3.10	4.35	7.70	13.2	24.6	41.62

Starch spray nozzles

															
Material	Body material: 303SS, 316SS Insert material: Ceramic						 Spray pattern								
Description	The nozzles can deliver different streams in different spray angles with the combination of the vanes and orifices, Ceramic material make longer working life.														
Application	Applied to spraying onto surface and middle layers, foam dealing, dedusting and gas cooling.														
Specification															
P/n	Thread	Dimensions(mm)			Weight(g)										
		L	H	N	304SS										
		1813	Rp 1/4"	46.0	19.0	10.5	65.0								
		1815	Rp 1/4"	40.0	22.0	11.0	70.0								
		1816	Rc 1/4"	40.5	22.0	12.0	70.0								
		18130	Rc 1/4"	32.0	17.0		15.0								
		18132		7.5	14.5		5.5								
18152		7.0	15.0		5.0										
Remark: 1. Dimension will differ a bit in different Materials 2. Please always indicate what thread needed															
Technical data															
Orifice code	Vane code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)								Spray angle				
			0.07	0.1	0.2	0.3	0.4	0.5	0.6	1.0	1.5	2.0	0.15	0.3	0.5
2	23	1.0	-	0.28	0.37	0.43	0.49	0.53	0.57	0.70	0.83	0.93	43°	72°	72°
3	23	1.2	0.25	0.29	0.39	0.46	0.52	0.58	0.62	0.78	0.93	1.1	56°	77°	77°
4	23	1.6	0.32	0.37	0.51	0.61	0.70	0.77	0.83	1.1	1.3	1.4	62°	88°	88°
5	23	2.0	0.37	0.44	0.59	0.72	0.82	0.91	0.98	1.3	1.5	1.7	73°	96°	95°
6	23	2.4	0.42	0.50	0.69	0.83	0.95	1.1	1.2	1.5	1.8	2.0	79°	100°	99°
2	25	1.0	-	0.37	0.51	0.62	0.71	0.79	0.86	1.1	1.3	1.5	32°	61°	61°
3	25	1.2	0.39	0.45	0.63	0.75	0.86	0.95	1.0	1.3	1.6	1.8	47°	69°	69°
4	25	1.6	0.57	0.68	0.94	1.1	1.3	1.4	1.6	2.0	2.4	2.8	63°	82°	82°
5	25	2.0	0.64	0.81	1.1	1.4	1.6	1.7	1.9	2.4	2.8	63	70°	85°	84°
6	25	2.4	0.87	1.0	1.5	1.8	2.0	2.3	2.5	3.2	3.8	4.4	77°	89°	88°
7	25	2.8	1.0	1.2	1.7	2.0	2.3	2.6	2.9	3.7	4.5	5.1	83°	92°	91°
8	25	3.2	1.2	1.4	2.0	2.4	2.8	3.1	3.4	4.4	5.3	6.2	89°	96°	95°
10	25	4.0	1.5	1.7	2.4	3.0	3.5	3.9	4.2	5.5	6.7	7.7	94°	102°	101°
2	45	1.0	-	0.43	0.66	0.80	0.91	1.0	1.1	1.4	1.7	2.0	26°	58°	58°
3	45	1.2	-	0.53	0.74	0.91	1.0	1.2	1.3	1.6	2.0	2.3	34°	62°	62°
4	45	1.6	0.67	0.80	1.1	1.4	1.6	1.8	2.0	2.5	3.1	3.6	59°	73°	72°
5	45	2.0	0.87	1.0	1.5	1.8	2.0	2.3	2.5	3.2	3.9	4.5	63°	76°	75°
6	45	2.4	1.1	1.3	1.9	2.3	2.7	3.0	3.3	4.3	5.3	6.1	70°	80°	79°
7	45	2.8	1.3	1.5	2.2	2.7	3.1	3.5	3.9	5.0	6.2	7.2	78°	86°	85°
8	45	3.2	1.6	1.9	2.4	3.3	3.9	4.3	4.8	6.2	7.6	8.9	84°	89°	88°
10	45	4.0	2.0	2.5	3.5	4.4	5.0	5.6	6.2	8.0	9.8	11.5	88°	92°	91°
2	46	1.0	-	-	0.89	1.1	1.2	1.3	1.5	1.9	2.2	2.5	-	20°	18°
3	46	1.2	-	-	1.0	1.3	1.5	1.6	1.8	2.3	2.8	3.2	-	23°	21°
4	46	1.6	1.1	1.3	1.8	2.2	2.5	2.8	3.2	4.0	4.9	5.7	20°	32°	31°
5	46	2.0	1.4	1.7	2.5	3.0	3.5	3.9	4.3	5.6	6.8	7.9	28°	41°	40°
6	46	2.4	2.1	2.5	3.6	4.4	5.0	5.7	6.2	8.0	9.8	11.4	38°	49°	47°

Fine misting nozzles

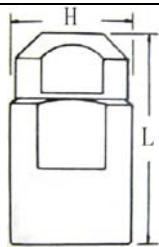
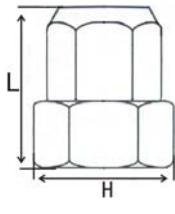
						
						
Material	Material: Brass, 303SS, 316SS					
Description	Deliver very small drips in hollow cone fog shape by only hydraulic.					
Application	Applied to cooling, humidifying and lubricating.					
						
						
Specification						
P/n	Thread	Total height L(mm)	Body height H(mm)	Hex H1(mm)	Filter	Weight(kg)
1731	1/4"	21.5	14.3			10
1735		54.0	20.6	17.5		90
1736		32.1	17.5	17.5		40
1736-W		32.1	17.5	17.5		40
1738		49.5	20.6	17.5		90
1741		47.5	20.6	17.5		80
1747		21.0	16.0			20
1747-Fp		32.0	16.0		Yes	26
1749		41.0	17.0	11.0		35
Remark: 1. Dimension will differ a bit in different materials	2. Please always indicate what thread needed					

Fine misting nozzles

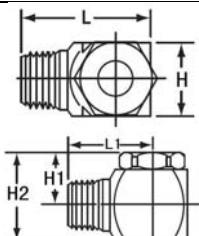
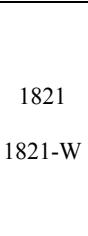
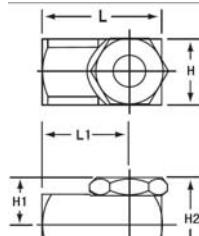
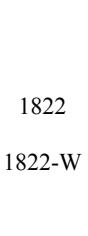
 1747G4-I	 1747G4-II	 Spray pattern
Material	Material: 303SS, 316SS	
Description	Assembly including the nozzle body, 4pcs of spray tips, pipe and flange, can deliver very fine misting full cone fog shape stream, flow rate is always big.	 Spray pattern
Application	Applied to generating stream fog or oil spraying.	

Technical data																
Vane code	Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa)										Spray angle			
			0.1	0.2	0.3	0.5	1.0	1.5	2.0	3.0	4.0	5.0	7.0	0.3	0.6	2.0
206	0.6	0.41					4.3	5.3	6.1	7.5	8.6	9.7	11.4		35°	65°
210	1	0.51				5.1	7.2	8.8	10.2	12.5	14.4	16.1	19.1	45°	62°	72°
216	1.5	0.51		4.8		7.6	10.8	13.2	15.3	18.7	22	24	29	65°	70°	72°
216	2	0.71		6.4		10.2	14.4	17.7	20	25	29	32	38	70°	75°	77°
220	3	0.71		9.7		15.3	22	26	31	37	43	48	57	65°	70°	73°
	2W	0.99		6.4	7.9	10.2									165°	
	3W	0.99	6.8	9.7	11.8	15.3									157°	
	4W	1.5	11.4	16.1	19.7	25									156°	155°
	8W	1.5	18.2	26	32	41									152°	
220	4	1.1		12.9		20	29	35	41	50	58	64	76	72°	81°	84°
225	6	1.1		19.3		31	43	53	61	75	86	97	114	73°	79°	81°
225	8	1.5		26		41	58	71	82	100	115	129	153	85°	89°	91°
420	10	1.6		32		51	72	88	102	125	144	161	191	82°	84°	86°
420	12	1.9		39		61	86	106	122	150	173	193	230	78°	82°	85°
421	14	1.9		45		71	101	124	143	175	200	225	265	85°	88°	90°
422	18	1.9		58		92	130	159	183	225	260	290	345	81°	84°	86°
625	22	1.9		71		112	159	194	225	275	320	355	420	70°	72°	75°
625	26	2.0		84		133	187	230	265	325	375	420	495	73°	74°	77°

Dry misting nozzles

																			
Material	Material: 303SS, 316SS																		
Description	Deliver very small drips in full cone fog shape by only hydraumatic.																		
Application	Applied to spraying the chemicals into fog shape, full contact with the high temperature wind, widely used in drying facilities.																		
Specification																			
P/n	Thread	L (mm)	H (mm)	Weight(kg)															
1782	Rc 1/4"	63.5	38.1	450															
		63.5	38.1	450															
		63.5	38.1	450															
	Rc 1/2"	34.9	58.0	360															
1786	Rc 1/2"	34.9	58.0	360															
		34.9	58.0	340															
Remark: 1. Dimension will differ a bit in different materials		2. Please always indicate what thread needed																	
Technical data																			
P/n	Thread	Code	Orifice (mm)	Flow rate (l/min) / pressure (MPa) and Spray angle															
				0.3	0.4	0.55	0.7	1.0	1.5	2.0	3.5	5.0	7.0	10.0	13.5	17.0	21.0	27.5	34.0
1782	1/4	1	1.4	0.67	0.77	0.91	1.0	1.2	1.5	1.7	2.3	2.7	3.2	3.9	4.5	5.1	5.6	6.4	7.1
				68°	72°	73°	74°	75°	76°	71°	67°	62°	57°	55°	53°	51°	50°	48°	46°
		1.5	1.8	1.1	1.2	1.4	1.6	1.9	2.4	2.8	3.6	4.4	5.1	6.2	7.2	8.0	8.9	10.	11.4
				78°	82°	83°	84°	80°	77°	75°	72°	65°	59°	57°	55°	53°	51°	49°	47°
				1.3	1.5	1.8	2.1	2.5	3.0	3.5	4.6	5.5	6.5	7.8	9.0	10.1	11.2	12.0	14.3
	3/8	2	2.0	77°	81°	81°	81°	80°	79°	73°	68°	62°	57°	55°	53°	51°	50°	49°	47°
				78°	79°	79°	78°	77°	76°	67°	59°	53°	48°	46°	44°	41°	39°	37°	35°
		3	2.4	2.1	2.4	2.8	3.1	3.7	4.6	5.3	7.0	8.4	9.9	11.9	13.8	15.5	17.2	20.0	22.0
				78°	79°	79°	78°	77°	76°	67°	59°	53°	48°	46°	44°	41°	39°	37°	35°
		4	2.8	2.6	3.0	3.5	4.0	4.8	5.8	6.7	8.9	10.6	12.6	15.0	17.5	19.6	22.0	25.0	28.0
1786	1/4	5	3.3	76°	76°	77°	76°	77°	76°	67°	59°	53°	48°	46°	44°	41°	39°	37°	35°
				3.4	3.9	4.5	5.1	6.1	7.5	8.7	11.5	13.7	16.2	19.4	23.0	25.0	28.0	32.0	36.0
		6	3.5	91°	91°	88°	88°	82°	79°	71°	63°	56°	50°	46°	45°	43°	40°	37°	34°
				4.0	4.6	5.4	6.1	7.3	8.9	10.3	13.6	16.3	19.3	23.0	27.0	30.0	33.0	35.0	42.0
				69°	89°	86	83°	80°	78°	69°	61°	56°	52°	48°	46°	43°	42°	40°	38°
	3/8	7	3.6	4.3	5.0	5.8	6.6	7.9	9.6	11.1	14.7	17.6	21.0	25.0	29.0	32.0	36.0	41.0	46.0
				91°	88°	85°	83°	80°	78°	69°	60°	59°	58°	56°	55°	53°	48°	45°	42°
		8	4.0	5.4	6.2	7.3	8.2	9.8	12.0	13.9	18.3	22.0	26.0	31.0	36.0	40.0	45.0	51.0	57.0
				92°	89°	86°	83°	78°	74°	65°	57°	54°	52°	52°	51°	50°	48°	46°	44°
				7.1	8.3	9.7	10.9	13.0	16.0	18.4	24.0	29.0	35.0	41.0	48.0	54.0	60.0	88.0	78.0
	1/4	10	4.5	94°	87°	85°	79°	75°	67°	59°	57°	55°	48°	46°	44°	44	42°	40°	30°
				11.6	13.4	15.7	17.7	21.0	26.0	30.0	40.0	47.0	56.0	67.0	78.0	87.0	97.0	111.0	123.0
		15	5.4	88°	82°	80°	78°	73°	68°	60°	62°	51°	50°	46°	44°	43°	40°	36°	32°
				17.8	21.0	24.0	27.0	32.0	40.0	46.0	61.0	73.0	86.0	103.0	119.0	134.0	149.0	170.0	189.0
		20	6.4	80°	80°	80°	80°	72°	64°	55°	47°	46°	45°	42°	39°	37°	35°	30°	32°

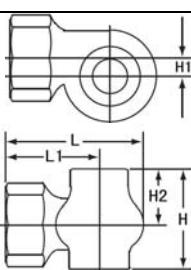
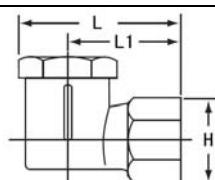
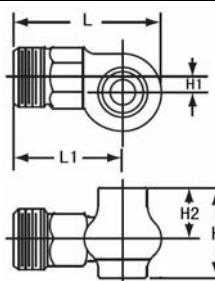
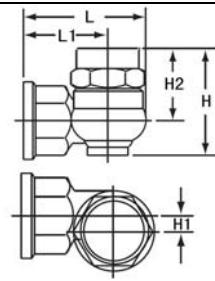
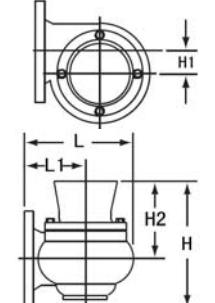
Foam dealing nozzles

								
								
								
								
Material	Material: Brass, 303SS, 316SS, Nylon							
Description	Water whirling in the nozzle body and spray out in hollow cone shape, spray angles medium to wide available.							
Application	Applied to starch spraying, foam dealing, cooling, chimney dedusting and chemical spraying.							
Specification								
Drawing	P/n	Thread	L(mm)	L1(mm)	H(mm)	H1(mm)	H2(mm)	Weight (kg)
	1821 1821-W	1/8	30.5	22.5	16.0	12.0	30.5	0.04
		1/4	35.0	25.5	19.0	13.5	35.0	0.07
		3/8	40.0	28.5	22.5	17.5	40.0	0.11
		1/2	49.5	35.0	28.5	21.5	49.5	0.20
		3/4	57.5	41.5	32.0	24.0	57.5	0.31
	1822 1822-W	1/8	25.5	17.5	16.0	12.0	20.0	0.04
		1/4	32.0	22.5	19.0	13.5	23.0	0.08
		3/8	37.5	26.5	22.5	17.5	28.5	0.12
		1/2	49.5	35.0	28.5	21.5	36.0	0.25
		3/4	55.5	40.0	32.0	24.0	40.0	0.31



Spray pattern

Foam dealing nozzles

Specification								
Drawing	P/n	Thread	L(mm)	L1(mm)	H(mm)	H1(mm)	H2(mm)	Weight (kg)
	1838	1/2	48.0	33.5	33.5	5.5	18.5	0.13
		3/4	58.0	38.0	42.0	7.5	23.0	0.20
		1	66.5	44.5	47.0	9.0	26.0	0.31
		1 1/4	77.8	50.9	55.6	11.1	31.7	0.57
		1 1/2	93.6	61.9	73.0	14.3	42.1	0.79
		2	115.1	74.6	93.6	18.2	53.1	1.4
		2 1/2	140.5	88.9	114.3	23.8	68.3	1.9
	1842 1844 18444 18446 1846	1/4	36.5	32.0	25.5			0.01
		3/8	39.0	33.5	28.0			0.01
		3/8	48.5	38.0	32.5			0.02
		1/2	51.5	40.0	36.0			0.02
		3/8	55.6	38.1	39.7			0.02
	1851	1/2	59.0	44.5	33.5	6.5	18.5	0.14
		3/4	69.0	51.0	42.0	8.0	24.0	0.21
	1852	1 1/4	86.6	53.8	77.7	10.4	53.3	1.0
		2	122.9	81.0	118.3	18.2	77.7	2.3
		3	176.2	112.7	213.6	28.7	150.8	8.62
		4	228.6	141.3	311.2	39.7	231.8	18.16
	1854 1861 1862	4	209.5	122.2	314.3	39.7	234.9	51.75
		6	311.2	174.6	338.1	61.9	2207	57.2

Remark: 1. Dimension will differ a bit in different materials

2. Please always indicate what thread needed

Technical data																
Standard spray angle, small flow rate																
Thread	Code	Inlet orifice (mm)	Orifice (mm)	Flow rate (l/min) / pressure (MPa)										Spray angle		
				0.02	0.05	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.05	0.15	0.6
1/8	0.5	0.79	1.2		0.16	0.23	0.28	0.32	0.39	0.46	0.51	0.56	0.60		58°	69°
	1	1.6	1.6		0.32	0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2		64°	76°
	2	2.0	2.0		0.64	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4	52°	61°	69°
	3	2.4	2.4		0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	52°	64°	77°
	5	3.2	3.2	1.0	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	56°	67°	76°
	8	4.0	4.0	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	56°	65°	70°
	10	4.4	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	55°	65°	72°
1/4	1	1.6	1.6			0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2		53°	67°
	2	2.0	2.0		0.64	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4		65°	78°
	3	2.4	2.4		0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	51°	73°	79°
	5	3.6	3.6	1.0	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	63°	73°	79°
	8	4.0	4.0	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	61°	69°	73°
	10	4.8	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	63°	70°	74°
	15	5.9	5.2	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	63°	71°	72°
3/8	5	3.6	3.2	1.0	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	64°	73°	79°
	8	4.4	4.0	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	62°	70°	74°
	10	5.2	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	64°	72°	75°
	15	5.9	5.6	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	64°	72°	74°
	20	7.1	6.4	4.1	6.4	9.1	11.2	12.9	15.8	18.2	20	22	24	63°	70°	74°
	25	7.5	7.5	5.1	8.1	11.4	14.0	16.1	19.7	23	25	28	30	63°	70°	74°
	30	8.3	7.9	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	63°	70°	74°
	15-30.1	5.9	7.9	4.7	7.4	10.5	12.8	14.8	18.2	21	23	26	28	40°	50°	54°
	25-30.1	7.5	7.9	5.7	9.0	12.8	15.6	18.0	22	26	29	31	34	40°	47°	51°
	50-50.1	8.7	9.5	10.2	16.1	23	28	32	39	46	51	56	60	40°	47°	50°
1/2	50-50.3	8.7	9.5	10.2	16.1	23	28	32	39	46	51	56	60	72°	76°	78°
	25	9.5	6.4	5.1	8.1	11.4	14.0	16.1	19.7	23	25	28	30	63°	66°	71°
	30	9.5	7.5	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	67°	71°	75°
	40	9.5	9.1	8.2	12.9	18.2	22	26	32	36	41	45	48	72°	76°	78°
	50	9.5	11.1	10.2	16.1	23	28	32	39	46	51	56	60	74°	79°	82°
3/4	60	9.5	13.1	11.2	19.3	27	33	39	47	55	61	67	72	77°	82°	86°
	40	12.7	7.9	8.2	12.9	18.2	22	26	32	36	41	45	48	70°	73°	74°
	50	12.7	9.5	10.2	16.1	23	28	32	39	46	51	56	60	72°	75°	77°
	60	12.7	11.1	12.2	19.3	27	33	39	47	55	61	67	72	74°	76°	79°
	70	12.7	12.7	14.3	23	32	39	45	55	64	71	78	84	76°	79°	83°
	80	12.7	14.3	16.3	26	36	45	52	63	73	82	89	96	78°	82°	84°
	90	12.7	14.7	18.3	29	41	50	58	71	82	92	100	109	81°	84°	84°
	100	12.7	15.9	20	32	46	56	64	79	91	102	112	121	83°	86°	86°
110	12.7	17.1	22	35	50	61	71	87	100	112	123	133	145	85°	88°	88°
	120	12.7	18.3	24	39	55	67	77	95	109	122	134	145	87°	90°	90°

Foam dealing nozzles

Technical data (Wide spray angle, small flow rate)															
Thread	Code	Inlet orifice (mm)	Orifice (mm)	Flow rate (l/min) / pressure (MPa)								Spray angle			
				0.03	0.05	0.1	0.15	0.2	0.3	0.4	0.5	0.05	0.15	0.6	
1/8	0.5-0.5W	0.79	1.2			0.23	0.28	0.32	0.39	0.46	0.51	0.56		117°	98°
	1-1W	1.6	1.6			0.46	0.56	0.64	0.79	0.91	1.0	1.1		125°	110°
	2-3W	2.0	2.8		0.81	1.1	1.4	1.6	2.0	2.3	2.5	2.8	114°	114°	97°
	3-3W	2.4	2.8		0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	114°	114°	97°
	3-5W	2.4	3.2		1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	116°	110°	95°
	2-10W	2.0	4.4		1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	130°	135°	120°
	5-5W	3.2	3.2		1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.5	116°	110°	92°
	5-10W	3.2	4.4	1.6	2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	126°	121°	95°
1/4	8-10W	4.0	4.4	2.2	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	129°	122°	103°
	1-1 W	1.6	1.6			0.46	0.56	0.64	0.79	0.91	1.0	1.1		117°	111°
	1-5 W	1.6	3.2			0.77	0.95	1.1	1.3	1.5	1.7	1.9		123°	124°
	1-10 W	1.6	4.4			0.96	1.2	1.4	1.7	1.9	2.1	2.3		144°	139°
	1-15 W	1.6	5.6			1.1	1.3	1.5	1.9	2.2	2.4	2.7		128°	132°
	2-5 W	2.0	3.2		1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	118°	123°	113°
	2-10 W	2.0	4.4		1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	138°	136°	126°
	5-5 W	3.6	3.2		1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	114°	113°	104°
	5-10 W	3.6	4.4	1.6	2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	130°	130°	119°
	5-15 W	3.6	5.6	1.9	2.5	3.5	4.3	5.0	6.1	7.0	7.8	8.6	130°	132°	120°
	8-10 W	4.0	4.4	2.2	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	129°	122°	103°
	10-10 W	4.8	4.4	2.5	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	120°	108°	95°
	8-15 W	4.0	5.6	2.7	3.5	5.0	6.1	7.1	8.7	10.0	11.2	12.3	129°	122°	107°
	10-15 W	4.8	5.6	3.0	3.9	5.5	6.7	7.7	9.5	10.9	12.2	13.4	120°	108°	97°
	15-15 W	6.0	5.6	2.7	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	101°	95°	88°
3/8	5-10W	3.6	4.4	1.6	2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	130°	123°	102°
	5-15W	3.6	5.6	1.9	2.5	3.5	4.3	5.0	6.1	7.0	7.8	8.6	138°	131°	112°
	8-10W	4.4	4.4	2.2	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10	122°	110°	96°
	10-10 W	5.2	4.4	2.5	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	116°	108°	93°
	8-15 W	4.4	5.6	2.7	3.5	5.0	6.1	7.1	8.7	10	11.2	12.3	133°	120°	105°
	10-15 W	5.2	5.6	3.0	3.9	5.5	6.7	7.7	9.5	10.9	12.2	13.4	126°	115°	100°
	8-25 W	4.4	7.5	3.2	4.2	5.9	7.3	8.4	10.3	11.9	13.3	14.5	122°	118°	109°
	10-20 W	5.2	6.0	3.5	4.5	6.4	7.8	9.0	11.1	12.8	14.3	15.6	118°	112°	102°
	15-15 W	6.0	5.6	3.7	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	116°	106°	95°
	15-20 W	6.0	6.0	4.2	5.5	7.7	9.5	11.0	13.4	15.5	17.3	19	113°	108°	98°
	20-20 W	7.1	6.0	5.0	6.4	9.1	11.2	12.9	15.8	18.2	20	22	106°	102°	95°
	15-30 W	6.0	7.9	5.5	7.1	10	12.3	14.2	17.4	20	22	25	116°	110°	102°
	25-25 W	7.5	7.5	6.2	8.1	11.4	14.0	16.1	19.7	23	25	28	105°	100°	93°
	25-30 W	7.5	7.9	7.0	9.0	12.8	15.6	18.0	22	26	29	31	105°	101°	94°
1/2	50-50 W	9.5	11.1	12.5	16.1	23	28	32	39	46	51	56	110°	102°	93°
3/4	80-80 W	12.7	14.3	20	26	36	45	52	63	73	82	89	115°	107°	97°

Technical data (Extra wide spray angle, small flow rate)														
Thread	Code	Inlet orifice (mm)	Orifice (mm)	Flow rate (l/min) / pressure (MPa)								Spray angle		
				0.02	0.05	0.07	0.1	0.15	0.2	0.3	0.4	0.05	0.15	0.6
1/8	2	1.6	6.4			0.76	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4
	5	2.4	6.4	1.0	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0
1/4	2	1.6	6.4			0.76	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4
	5	2.4	6.4	1.0	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0
	5.8	2.8	6.4	1.2	1.9	2.2	2.6	3.2	4.5	3.7	4.6	5.9	6.5	7.0
	8	3.2	7.9	1.6	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6
	10	3.6	7.9	2.0	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1
3/8	8	2.8	12.3	1.6	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6
	10	3.2	12.3	2.0	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1
	15	4.4	12.3	3.1	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1
	20	5.2	12.3	4.1	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20	22	24
	25	5.9	12.3	5.1	8.1	9.5	11.4	14.0	16.1	19.8	23	25	28	30
	33	6.7	16.3	6.7	10.6	12.6	15	18.4	21	26	30	34	37	40
1/2	53	9.5	16.3	10.8	17.1	20	24	30	34	42	48	54	59	64
	25	5.6	16.3	5.1	8.1	9.5	11.4	14	16.1	19.8	23	25	28	30
	30	6.4	16.3	6.1	9.7	11.4	13.7	16.7	19.3	24	27	31	33	36
	40	7.5	16.3	8.1	12.9	15.3	18.2	22	26	32	36	41	45	48
	53	9.5	16.3	10.8	17.1	20	24	30	34	42	48	54	59	64

Foam dealing nozzles

Technical data (Casting part, medium to big flow rate)																		
Thread	Code	Inlet orifice (mm)	Orifice (mm)	Flow rate (l/min) / pressure (MPa)											Spray angle			
				0.02	0.03	0.05	0.07	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.05	0.15	0.4
1/2	3	11.1	7.5	7.3	9.0	11.6	13.7	16.3	20	23	28	33	37	40	43	60°	63°	65°
	4		9.5	9.7	11.9	15.4	18.2	22	27	31	38	44	49	53	58	68°	71°	73°
	5		11.5	12.2	14.9	19.3	23	27	33	39	47	54	61	66	72	74°	77°	80°
	7		13.5	17.1	21	27	32	38	47	54	66	76	85	93	101	77°	80°	83°
	3	11.1	7.9	7.3	9.0	11.6	13.7	16.3	20	23	28	33	37	40	43	62°	63°	67°
	4		9.9	9.7	11.9	15.4	18.2	22	27	31	38	44	49	53	58	68°	71°	73°
	5		11.9	12.2	14.9	19.3	23	27	33	39	47	54	61	66	72	74°	77°	80°
	7		13.9	17.1	21	27	32	38	47	54	66	76	85	93	101	77°	80°	83°
3/4	5	15.1	9.9	12.2	14.9	19.3	23	27	33	39	47	54	61	66	72	59°	61°	63°
	6		11.5	14.6	17.9	23	27	33	40	46	57	65	73	80	86	62°	64°	66°
	7		12.7	17.1	21	27	32	38	47	54	66	76	85	93	101	70°	71°	72°
	10		16.7	24	30	39	46	54	67	77	94	109	122	133	144	73°	75°	77°
	4	14.3	9.1	9.7	11.9	15.4	18.2	22	27	31	38	44	49	53	58	65°	66°	67°
	5		10.7	12.2	14.9	19.3	23	27	33	39	47	54	61	66	72	68°	69°	70°
	6		12.3	14.6	17.9	23	27	33	40	46	57	65	73	80	86	70°	73°	77°
	7		13.9	17.1	21	27	32	38	47	54	66	76	85	93	101	72°	75°	80°
	10		16.7	24	30	39	46	54	67	77	94	109	122	133	144	77°	80°	84°
1	7	17.5	11.5	17.1	21	27	32	38	47	54	66	76	85	93	101	64°	65°	66°
	8		12.7	19.5	24	31	36	44	53	62	75	87	97	107	115	65°	66°	67°
	9		14.3	22	27	35	41	49	60	69	85	98	110	120	130	66°	67°	69°
	10		15.5	24	30	39	46	54	67	77	94	109	122	133	144	67°	69°	71°
	12		17.1	29	36	46	55	65	80	92	113	131	146	160	173	70°	73°	75°
	15		20.6	37	45	58	68	82	100	116	142	163	183	200	215	76°	79°	81°
1 1/4	10	21.4	14.3	24	30	39	46	54	67	77	94	109	122	133	144	65°	67°	67°
	12		16.3	29	36	46	55	65	80	92	113	131	146	160	173	68°	70°	71°
	14		18.3	34	42	54	64	76	93	108	132	153	171	187	200	71°	73°	75°
	16		20.2	39	48	62	73	87	107	123	151	174	195	215	230	74°	75°	77°
	20		24.2	49	60	77	91	109	133	154	189	220	245	265	290	76°	77°	79°
1 1/2	16	27.8	17.5	39	48	62	73	87	107	123	151	174	195	215	230	64°	67°	69°
	20		21.8	49	60	77	91	109	133	154	189	220	245	265	290	69°	72°	74°
	25		25.8	61	75	96	114	136	167	193	235	270	305	335	360	72°	74°	76°
	30		28.6	73	90	116	137	163	200	230	285	325	365	400	430	74°	76°	78°
2	30	36.5	23.8	73	90	116	137	163	200	230	285	325	365	400	430	66°	67°	70°
	35		27.0	85	104	135	160	191	235	270	330	380	425	465	500	68°	70°	73°
	40		30.2	97	119	154	182	220	265	310	375	435	490	530	580	70°	72°	75°
	45		32.9	110	134	173	205	245	300	345	425	490	550	600	650	72°	74°	78°
	50		36.1	122	149	193	230	270	335	385	470	540	610	670	720	74°	77°	82°
	60		39.7	146	179	230	275	325	400	460	570	650	730	800	860	77°	79°	84°
2 1/2	60	47.6	36.1	146	179	230	275	353	400	460	570	650	730	800	860	37°	68°	71°
	70		40.5	171	210	270	320	380	465	540	660	760	850	930	1010	69°	71°	74°
	80		44.1	195	240	310	365	435	535	620	750	870	970	1070	1150	71°	73°	77°
	90		47.6	220	270	345	410	490	600	690	850	980	1100	1200	1300	73°	75°	80°
	100		50.8	245	300	385	455	540	670	770	940	1090	1220	1330	1440	77°	79°	83°

Foam dealing nozzles

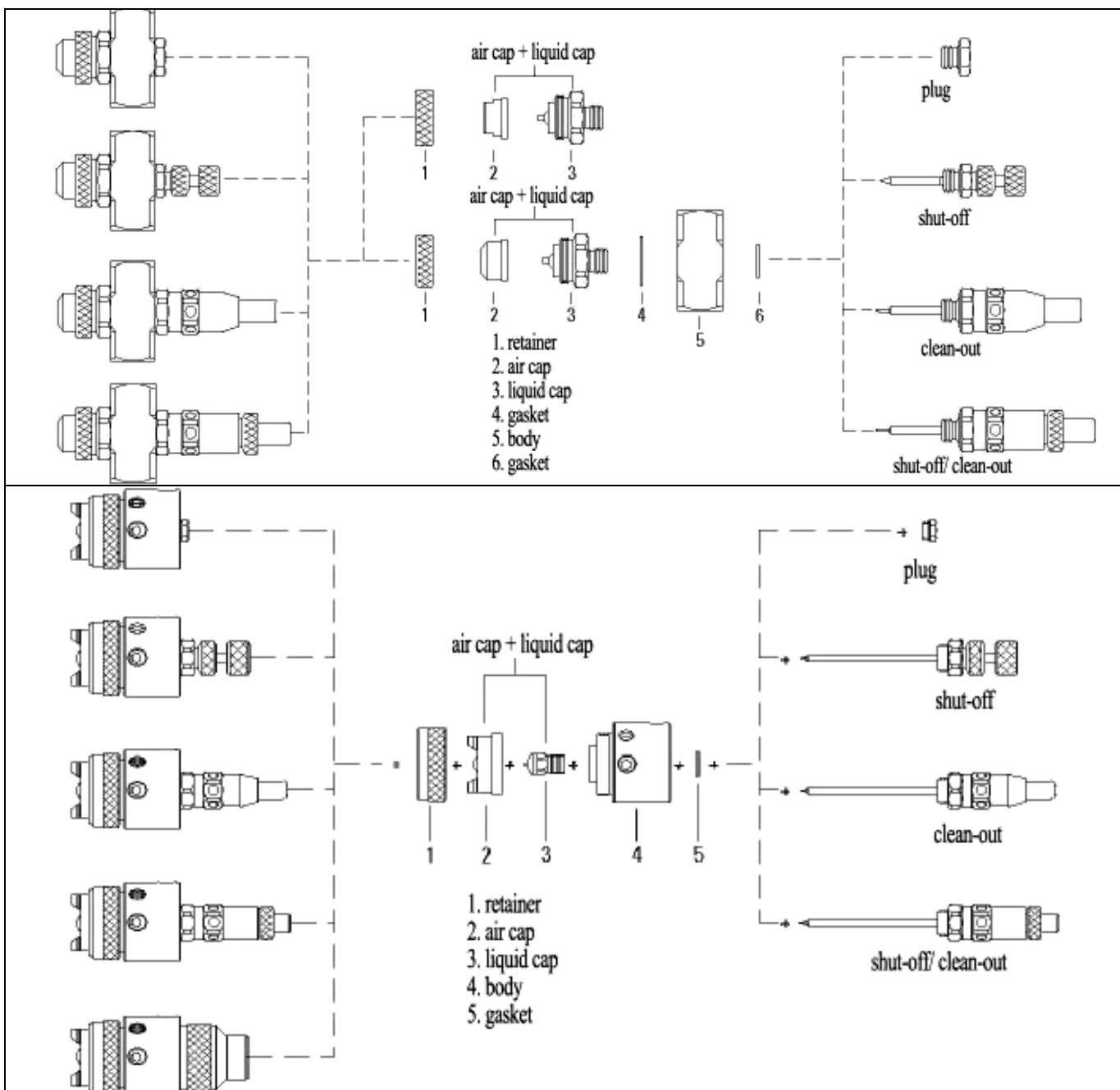
Technical data (Casting part, big flow rate)																
Thread	Code	Inlet orifice (mm)	Orifice (mm)	Flow rate (l/min) / pressure (MPa)									Spray angle			
				0.02	0.05	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.05	0.15	0.4	
1 1/4	10-45°	21.4	13.1	24	39	54	67	77	94	109	122	133	144	45°	49°	52°
	12-45°		14.3	29	46	65	80	92	113	131	146	160	173	45°	49°	51°
	14-45°		16.7	34	54	76	93	108	132	153	171	187	200	45°	48°	51°
	16-45°		19.1	39	62	87	107	123	151	174	195	215	230	45°	48°	50°
	20-45°		22.2	49	77	109	133	154	189	220	245	270	290	45°	47°	49°
2	30-45°	36.5	23.8	73	116	163	200	230	285	325	365	400	430	45°	49°	52°
	35-45°		27	85	135	191	235	270	330	3880	425	465	500	45°	49°	51°
	40-45°		30.2	97	154	220	265	310	375	435	49	530	580	45°	48°	50°
	45-45°		32.1	110	173	245	300	345	425	490	550	600	650	45°	48°	50°
	50-45°		34.9	122	193	270	335	385	470	540	610	670	720	45°	47°	49°
	55-45°		36.9	134	210	300	365	425	520	600	670	730	790	45°	47°	49°
3	70	57.2	34.9	171	270	380	465	540	660	760	850	930	1010	65°	66°	69°
	85		40.1	205	325	465	570	650	800	930	104	1130	1230	67°	68°	71°
	100		44.5	245	385	540	670	770	940	1090	1220	1330	1440	69°	72°	74°
	120		52.4	290	40	650	800	920	1130	1310	1460	1600	1730	71°	73°	77°
	140		58.7	340	540	760	930	1080	1320	1530	1710	1870	2020	73°	75°	80°
	70-45°		34.9	171	270	380	465	540	660	760	850	930	1010	45°	49°	52°
	85-45°		40.1	205	325	465	570	650	800	930	1040	1130	1230	45°	49°	51°
	100-45°		44.5	245	385	540	670	770	940	1090	1220	1330	1440	45°	48°	51°
	120-45°		51.2	290	460	650	800	920	1130	1310	1460	1600	1730	45°	48°	50°
	140-45°		58.7	340	540	760	930	1080	1320	1530	1710	1870	2020	45°	47°	49°
4	150	79.4	50.8	365	580	820	1000	1160	1420	1630	183	2000	2160	66°	67°	70°
	175		59.1	425	670	950	1170	1350	1650	1910	2130	2340	2520	68°	70°	71°
	200		68.3	485	77	1090	1330	1540	1890	2180	2440	2670	2880	70°	72°	74°
	225		74.6	550	870	1230	1500	1730	2120	2450	2740	3000	3240	72°	74°	77°
	250		82.6	610	960	1360	1670	1930	2360	2720	3050	3340	3600	74°	76°	81°
	275		92.1	670	1060	1500	1840	2120	2600	3000	3350	3670	3960	78°	80°	83°
	150-45°		50.8	365	580	820	1000	1160	1420	1630	1830	2000	2160	45°	49°	52°
	175-45°		59.1	425	670	950	1170	1350	1650	1910	2130	2340	2520	45°	49°	51°
	200-45°		68.3	485	770	1090	1330	1540	1890	2180	2440	2670	2880	45°	48°	51°
	225-45°		74.6	550	870	1230	1500	1730	2120	2450	2740	3000	3240	45°	48°	50°
	250-45°		82.6	610	960	1360	1670	1930	2360	2720	3050	3340	3600	45°	47°	49°
6	250	124	62.3	610	960	1360	1670	1930	2360	2720	3050	3340	3600	65°	67°	69°
	300		69.9	730	1160	1630	2000	2310	2830	3270	3650	4000	4320	66°	68°	70°
	350		76.2	850	1350	1910	2340	2700	3300	3810	4260	4670	5050	68°	70°	72°
	400		82.6	970	1540	2180	2670	3080	3770	4360	4870	5340	5770	70°	73°	75°
	450		88.1	1100	1730	2450	3000	3470	4250	4900	5480	6010	6490	72°	75°	77°
	500		97.2	1220	1930	2720	3340	3850	4720	5450	6090	6670	7210	74°	76°	79°
	550		108	1340	2120	3000	3670	4240	5190	5990	6700	7340	7930	76°	79°	83°
	625		130	1520	2410	3410	4170	4820	5900	6810	7610	8340	9010	78°	81°	86°
	440-65°		88.1	1070	1700	2400	2940	3390	4150	4790	5360	5870	6340	60°	61°	62°
	550-65°		108	1340	2120	3000	3670	4240	5190	5990	6700	7340	7930	64°	65°	66°
	625-65°		130	1520	2410	3410	4170	4820	5900	6810	7610	8340	9010	65°	66°	67°

Air atomizing nozzles

2113	2121	2122	2132	2141																																																																									
2142	2151	2171	2181	2191																																																																									
Material	Material: 303SS, 316SS																																																																												
Description	Deliver very fine fog spray by air pressure and hydraumatic, and there're clean out and shut off assembly available.																																																																												
Application	Applied to stripping spraying, paper humidifying, roller cooling, dyeing and chemical spraying.																																																																												
Specification	<table border="1"> <thead> <tr> <th>P/n</th><th>Type</th><th>Spray shape</th><th>L(mm)</th><th>L1(mm)</th><th>L2(mm)</th><th>L3(mm)</th><th>H(mm)</th><th>Weight(g)</th></tr> </thead> <tbody> <tr> <td>2113</td><td>Inner mixture</td><td>Round</td><td>82.0</td><td>35.0</td><td>21.0</td><td>26.0</td><td>44.0</td><td>200.0</td></tr> <tr> <td>2121</td><td>Inner mixture</td><td>Fan</td><td>50.5</td><td></td><td>20.5</td><td>24.0</td><td>43.0</td><td>170.0</td></tr> <tr> <td>2122</td><td>Inner mixture</td><td>Fan</td><td>87.0</td><td>35.0</td><td>21.0</td><td>31.0</td><td>44.0</td><td>205.0</td></tr> <tr> <td>2132</td><td>Inner mixture</td><td>Fan</td><td>110.0</td><td>62.0</td><td>21.0</td><td>27.0</td><td>44.0</td><td>235.0</td></tr> <tr> <td>2141</td><td>Outer mixture</td><td>Fan</td><td>50.5</td><td></td><td>21.0</td><td>22.5</td><td>43.5</td><td>170.0</td></tr> <tr> <td>2142</td><td>Outer mixture</td><td>Fan</td><td>75.0</td><td>31.0</td><td>21.0</td><td>24.0</td><td>44.0</td><td>195.0</td></tr> <tr> <td>2151</td><td>Outer mixture</td><td>Fan</td><td>50.0</td><td></td><td>21.0</td><td>23.5</td><td>43.0</td><td>235.0</td></tr> </tbody> </table>					P/n	Type	Spray shape	L(mm)	L1(mm)	L2(mm)	L3(mm)	H(mm)	Weight(g)	2113	Inner mixture	Round	82.0	35.0	21.0	26.0	44.0	200.0	2121	Inner mixture	Fan	50.5		20.5	24.0	43.0	170.0	2122	Inner mixture	Fan	87.0	35.0	21.0	31.0	44.0	205.0	2132	Inner mixture	Fan	110.0	62.0	21.0	27.0	44.0	235.0	2141	Outer mixture	Fan	50.5		21.0	22.5	43.5	170.0	2142	Outer mixture	Fan	75.0	31.0	21.0	24.0	44.0	195.0	2151	Outer mixture	Fan	50.0		21.0	23.5	43.0	235.0
P/n	Type	Spray shape	L(mm)	L1(mm)	L2(mm)	L3(mm)	H(mm)	Weight(g)																																																																					
2113	Inner mixture	Round	82.0	35.0	21.0	26.0	44.0	200.0																																																																					
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Remark: 1. Dimension will differ a bit in different materials	2. Please always indicate what thread needed																																																																												

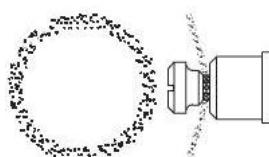
Technical data																
Code	Fluid cap + Air cap	Fluid flow rate (l/h) and Air flow rate (l/m)														
		0.07MPa			0.15 MPa			0.2 MPa			0.3 MPa					
		Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m			
GFSS 240E	28150 + 189110-75	0.4	11.0	45	1.1	14.5	79	1.5	15.7	96	2.1	20	114	2.7	26	133
		0.6	9.5	54	1.3	13.2	86	1.7	14.3	104	2.2	19.2	121	3.2	22	160
		0.7	7.6	65	1.4	11.8	95	1.8	12.9	112	2.7	15.8	146	3.8	17.7	186
		0.8	5.7	77	1.5	10.0	103	2.1	9.8	130	3.1	11.8	173	4.4	13.1	230
					1.7	8.7	113	2.2	8.3	142	3.2	10.3	183	4.6	10.2	250

Air atomizing nozzles



Technical data

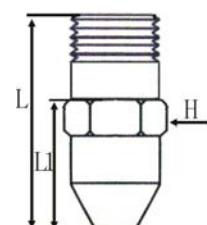
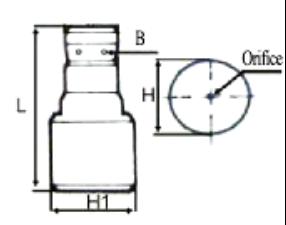
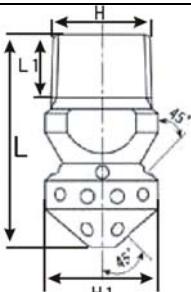
Code	Fluid cap + Air cap	Fluid flow rate (l/h) and Air flow rate (l/m)														
		0.07MPa			0.15 MPa			0.2 MPa			0.3 MPa			0.4MPa		
		Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m
GFSS 340C	60150 + 189-6-62-1 60HC	1.4	15.1	69	2.8	19.5	142	3.5	21	185	4.2	48	210	6.0	45	340
		1.5	10.6	77	3.0	16.1	153	3.7	17.6	196	4.6	37	240	6.3	37	375
		1.7	7.6	84	3.1	13.2	165	3.8	14.8	210	4.9	28	275	6.7	30	405
		1.8	5.7	93	3.2	10.6	177	3.9	12.5	220	5.6	15.5	340	7.0	24	440
		2.0	4.2	103	3.4	8.3	188	4.2	8.1	245	6.3	7.8	425			



Air atomizing nozzles

Technical data		Fluid flow rate (l/h) and Air flow rate (l/m)														Spray distance						
Code	Fluid cap + Air cap	0.07MPa 0.15 MPa 0.2 MPa 0.3 MPa 0.4MPa												Air MPa	Fluid MPa	A cm	B cm	C cm	D cm			
		Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m	Air MPa	Fluid L/h	Air L/m									
Round GFSS11	2050	0.7	2.5	15.6	1.1	6.4	11.9	1.4	6.4	13.9	2.7	6.2	23	3.5	7.8	28						
		0.85	1.8	19.0	1.4	5.0	15.0	1.7	5.5	16.7	2.8	5.7	25	3.7	7.3	29	0.85	0.7	13°	30		
		1.0	1.4	22	1.7	4.1	18.7	2.0	4.5	19.8	3.0	5.2	27	3.9	6.4	33	1.7	1.5	13°	33		
	67147				1.8	3.4	20	2.2	3.4	24	3.1	4.7	29	4.2	5.5	38	2.5	2.0	13°	36		
					2.0	3.0	23	2.4	3.0	26	3.2	4.3	31	4.5	4.5	43	3.1	3.0	14°	39		
					2.1	2.6	25	2.5	2.5	28	3.4	3.9	33	4.6	4.3	45	4.5	4.0	15°	44		
Fan GFSS13 A	2050	0.7	5.5	24	1.3	9.1	31	2.0	8.6	42	2.7	11.2	52	3.9	12.0	69	1.1	0.7	25	36		
		0.85	4.7	27	1.5	7.7	36	2.2	7.5	47	3.0	10.1	56	4.6	9.7	81	2.1	1.5	36	48		
		1.0	4.1	31	1.8	6.5	42	2.5	6.2	52	3.2	9.1	62	5.3	7.56	93	2.8	2.0	38	53		
	73328	1.1	3.5	34	2.1	5.4	47	2.8	5.2	57	3.5	8.1	66	6.0	5.3	104	3.5	3.0	47	61		
		1.3	3.0	37	2.4	4.3	52	3.1	4.2	63	4.2	5.4	79	6.3	4.3	110	6.0	4.0	56	74		
		1.4	2.5	40	2.7	3.3	57	3.2	3.7	65	4.6	4.2	85	6.7	3.3	116						
Fan GFSS13	2850	1.5	2.0	44	2.8	2.8	60	3.4	3.2	68	4.9	3.1	91	7.0	2.4	122						
		0.85	8.2	19.8	1.4	14.4	27	2.1	13.5	36	2.7	19.1	42	4.6	16.1	69	1.1	0.7	36	46		
		1.0	6.8	23	1.7	11.9	32	2.4	11.4	42	3.0	17.1	46	4.9	13.8	76	2.1	1.5	43	61		
	73328	1.1	5.5	27	2.0	9.5	37	2.7	9.2	47	3.2	15.1	52	5.3	11.5	83	3.0	2.0	51	66		
		1.3	4.1	30	2.1	8.3	40	3.0	7.1	53	3.5	13.1	57	5.6	9.3	90	3.5	3.0	58	76		
		1.4	2.9	34	2.2	7.1	43	3.2	5.0	59	4.2	8.1	72	6.0	7.3	97	5.6	4.0	58	76		
Fan GFSS23	60100	0.85	27	33	1.8	38	55	2.4	39	67	3.2	58	76	4.6	59	106	1.1	0.7	18	23		
		1.0	20	38	2.2	28	66	2.7	30	77	3.5	47	87	5.3	40	132	2.4	1.5	23	30		
		1.1	15.9	45	2.4	24	71	3.0	24	87	3.8	38	97	5.6	32	145	3.2	2.0	25	33		
	125328	1.3	12.5	48	2.5	21	76	3.2	17.8	98	3.9	34	103	6.0	26	158	3.9	3.0	30	38		
		1.4	10.2	56	2.7	17.8	82	3.4	15.1	103	4.2	27	113	6.3	20	172	6.0	4.0	33	51		
		1.5	7.6	62		15.1	87	3.5	12.9	109	4.6	20	126	6.7	15.9	185						
Fan GFSS43	100150	1.0	29	1.8	1.8	56	117	2.1	100	119	3.0	126	140	4.1	140	181	1.0	0.7	18	20		
		1.1	18.9	2.0	2.0	40	133	2.2	79	133	3.1	110	151	4.2	125	193	1.8	1.5	23	30		
								2.4	62	147	3.2	95	163	4.6	89	225	2.4	2.0	25	30		
	189351							2.5	48	162	3.4	78	184	4.9	58	265	3.4	3.0	30	41		
								2.7	36	177	3.5	62	193	5.3	34	305	4.9	4.0	33	43		
											3.7	48	210	5.6	16.7	340						
Fan GFSS J340C	J60100	1.4	15.1	2.8	2.8	19.5	142	3.5	21	185	4.2	48	210	6.0	45	340						
		1.5	10.6	3.0	3.0	16.1	153	3.7	17.6	196	4.6	37	240	6.3	37	375						
	J150662-160 HC	1.7	7.6	3.1	3.1	13.2	165	3.8	14.8	210	4.9	28	275	6.7	30	405						
		1.8	5.7	3.2	3.2	10.6	177	3.9	12.5	220	5.6	15.5	340	7.0	24	440						
		2.0	4.2	3.4	3.4	8.3	188	4.2	8.1	245	6.3	7.8	425									
		0.2	25.2			0.35	26.3		0.7	31.2		1.4	45.3		2.8	73.6		0.2	0.2	9	15	
GFSS15 B	1650 + 6722845	0.35	26.3			0.7	31.2		1.06	39.6		1.75	53.8		3.5	85		1.06	0.2	9	15	
		0.7	31.2			1.05	39.6		1.4	45.3		2.1	59.4		4.2	102		1.4	0.35	10	15	
		1.06	39.6			1.4	45.3		1.75	53.8		2.8	73.6		7.8		11	1.4	1.4	11.5	18	
		1.4	45.3			1.75	53.8		2.1	59.4		3.5	85		5.3	127.5		1.75	0.7	11.5	15	
		1.75	53.8			2.1	59.4		2.8	73.6		4.2	102		5.6	139		2.8	1.4	13	18	
		2.1	59.4			2.8	73.6		3.5	85		6.3	139		6.3	159		4.9	2.8	15	18	
GFSS15 A	2050 + 6722845	0.35	26.3			0.7	31.2		1.05	39.6		1.75	53.8		3.15	82		0.35	0.2	7.5	14	
		0.7	31.2			1.05	39.6		1.4	45.3		2.1	59.4		3.5	85		1.5	0.2	9	15	
		1.05	39.6			1.4	45.3		1.75	53.8		2.8	73.6		4.2	102		1.75	0.35	10	16.5	
		1.4	45.3			1.75	53.8		2.1	59.4		3.5	85		4.9	119		1.75	1.4	13	19	
		1.75	53.8			2.1	59.4		2.8	73.6		4.2	102		5.25	139		2.1	0.7	13	18	
		2.1	59.4			2.8	73.6		3.5	85		4.9	119		6.3	159		3.5	1.4	13	22	
GFSS15	2850 + 6722845	2.8	73.6			3.5	85		4.2	102		6.3	139		6.3	159		5.3	2.8	15	19	
		3.5	85			4.2	102		4.9	119		6.3	159		7	176		5.3	2.8	16.5	20	
		0.7	31.2			1.05	39.6		1.4	45.3		2.5	68		3.5	85		0.7	0.2	13	16.5	
		1.06	39.6			1.4	45.3		1.75	53.8		2.8	73.6		4.2	102		1.75	0.2	13	16.5	
		1.4	45.3			1.75	53.8		2.1	59.4		3.5	85		4.9	119		2.1	0.35	13	18	
		1.75	53.8			2.1	59.4		2.8	73.6		4.2	102		5.6	139		2.8	0.7	14	19	
GFSS25	60100 + 13425545	2.8	73.6			3.5	85		4.2	102		6.3	139		6.3	159		7	176		5.3	2.8
		3.5	85			4.2	102		4.9	119		6.3	159		7	176		5.3	2.8	16.5	20	
		1	102			1.8	139		2.5	178		3.2	212		3.9	255		1	0.2	15	20	
		1.4	116			2.1	156		2.8	195		3.5	227		4.2	275		2.1	0.2	15	22	
		1.8	139			2.5	178		3.2	212		3.9	2446		4.6	297		2.8	0.35	18	24	
		2.1	156			2.8	195		3.54	227		4.2	266		4.9	314		3.2	1.4	20	28	
		2.5	178			3.2	212		2	266		4.9	312		5							

Pipe cleaning nozzles

							
5011	5012	5015	Material: 303SS, 316SS				
Description	Deliver very high impact streams backward, nozzle can move forward in the pipe thereby.						
Application	Applied to pipe cleaning and derusting.					Spray pattern	

Specification

P/n	Specification		Thread	L(mm)	L1(mm)	H(mm)	H1(mm)	Weight(g)
	Orifice no.	Orifice						
5011	7	φ0.6	Rp 1/2"	65.0	30.0	23.0		105.0
5012	7	φ0.6	Rc 1/8"	25.5		8.0	13.0	10.0
5015	7	φ0.6~φ2.0	Rp 1/8"	26.0	7.0	10.5	12	14.0
			Rp 1/4"	34.0	9.0	14.0	17	35.0
			Rp 3/8"	38.0	11.0	16.0	19	48.0
			Rp 1/2"	42.0	14.0	22.0	25	88.0

Remark: 1. Dimension will differ a bit in different materials

2. Please always indicate what thread needed

Technical data

P/n	Flow rate (l/min) / pressure (MPa)					Orifice (mm)	Top orifice (mm)
	2.0	3.0	8.0	150.0	350.0		
5011	2.1	2.6	4.3	5.9	9.0	0.38	0.38
	4.4	5.4	8.8	12.0	18.3	0.56	0.56
	5.5	6.7	11.0	15.1	23.0	0.64	-
	5.8	7.1	11.6	15.9	24.0	0.64	0.64
5012	10.6	13.0	21.0	29.0	44.0	0.84	0.84
	21.0	26.0	42.0	58.0	89.0	1.2	1.2
	43.0	43.0	86.0	117.0	179.0	1.7	1.7

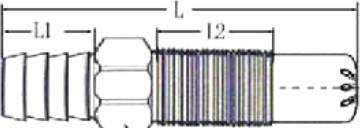
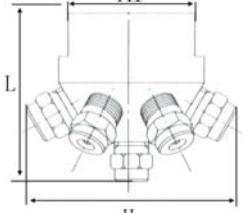
Technical data (Item 5015)

Flow rate/ pipe inner diameter								Flow rate/ orifice diameter and orifice number									
Pipe ID	Max flow rate(L/min)/ pressure(MPa)							Orifice (mm)	Each orifice flow rate(L/min)/ pressure(MPa)								
	3	5	7	10	15	20	25		3	5	7	10	15	20	25	30	
1/8M	24	31	37	44	54	62	70	76	φ0.6	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.3
1/4M	96	124	147	176	216	249	278	305	φ0.7	1.0	1.3	1.5	1.8	2.2	2.5	2.8	3.1
3/8M	96	124	147	176	216	249	278	305	φ0.8	1.3	1.7	2.0	2.3	2.9	3.3	3.7	4.1
1/2M	105	135	160	191	234	270	270	331	φ0.9	1.6	2.1	2.5	3.0	3.6	4.2	4.7	5.1
Flow rate/ max orifice number								φ1.0	2.0	2.6	3.1	3.7	4.5	5.2	5.8	6.4	
Pipe ID	Max orifice number(pc)/ pressure(MPa)							φ1.2	2.9	3.7	4.4	5.3	6.5	7.5	8.3	9.1	
	φ0.6	φ0.7	0.8φ	φ1.0	φ1.5	φ1.5	φ2.0	φ1.5	14.3	5.8	6.9	8.2	10.1	11.7	13.0	14.3	
1/8M	6	6	6	6	4			φ2.0	25.4	10.4	12.3	14.7	18.0	20.7	23.2	25.4	
1/4M	10	10	10	10	8	8											
3/8M	10	10	10	10	8	8	6										
1/2M	12	10	10	10	8	8	6										

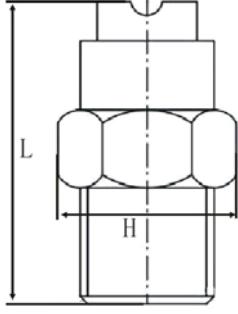
Hydraulic totating nozzles

5032	5034	5033-SS	5033-Ny	5035-SS	5035-Ny	5036	5038				
Material	Material: 303SS, 316SS, Nylon										
Description	Can rotate by hydraumatic, deliver high impact fan streams and big cleaning coverage.										
Application	Applied to tank cleaning.					Spray pattern					
Specification											
P/n	Specification		Type	Thread	L(mm)	L1(mm)	L2(mm)	L3(mm)	H(mm)	Hex(mm)	Weight(g)
	Slot no.	Slot(mm)									
5032	2	0.8~2.0		Rc1/2"-3"	153.3				64.5		680.0
5034	2	0.8~2.0		Rc1/2"-3"	153.3				64.5		635.0
5033	2	0.5~1.0	SS	Rp 1/2"	63.5	23.5	85.0	35.0		27.0	90.0
	2	0.5~1.0	Ny	Rp 1/2"	63.5	23.5	85.0	35.0		27.0	70.0
5035	2	0.5~1.0	SS	Gp 1/2"	111.0	23.5				27.0	210.0
	2	0.5~1.0	Ny	Gp 1/2"	111.0	23.5				27.0	160.0
5036				Rc 3/4"	122.0	100.0			56.0	44.5	680.0
5038				Rc 3/4"	127.0	105.0			42.0	44.5	450.0
Remark: 1. Dimension will differ a bit in different materials				2. Please always indicate what thread needed							
Technical data											
P/n	Flow rate (l/min) / pressure (MPa)										
	0.1	0.15	0.2	0.25	0.3	0.4	0.5	0.6	0.8	1.0	1.2
5032		14.0			19.7	23	25	28	32	36	39
		22			32	36	41	45	52	58	63
5034		15.9			22	26	29	32	37	41	45
		19.5			28	32	36	39	45	50	55
5033		28			39	46	51	56	64	72	79
		14.0			19.7	23	25	28	32	36	39
5035		22			32	36	41	45	52	58	63
		15.9			22	26	29	32	37	41	45
5036		19.5			28	32	36	39	45	50	55
		28			39	46	51	56	64	72	79
5038		48	59	68	76	83	96				
		103	126	145	162	178	205				
5038		23	28	32	36	39	46				
		41	50	58	65	71	82				

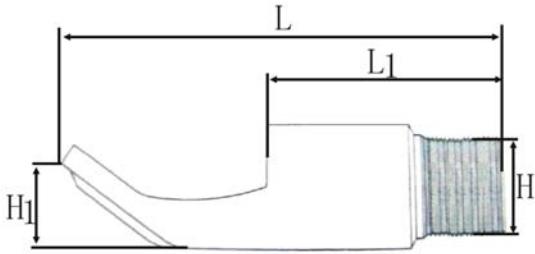
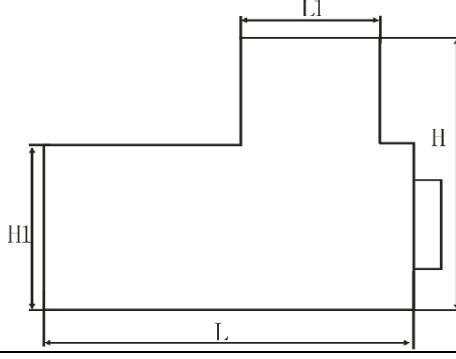
Tank cleaning nozzles

									
5047		5052							
Material	Material: 303SS, 316SS								
Description	Deliver high impact streams in different directions thereby can clean every corners of the tank.								
Application	Applied to tank cleaning.								
Specification									
P/n	Specification		Thread	L(mm)	L1(mm)	L2(mm)	H(mm)	Weight(g)	
	Tip no.	Orifice(mm)							
5047	6	φ1.2	G 3/8"	116.0	26.0	33.5	27.0	210.0	
5052	13	φ1.2	Rc 1/2"	166.0	191.0			410.0	
	13	φ1.2	Rc 3/4"	174.0	210.0			465.0	
	13	φ1.2	Rc 1"	183.0	229.0			520.0	
	13	φ1.2	Rc 1/4"	114.0	114.0			325.0	
	13	φ1.2	Rc 2"	114.0	114.0			325.0	
	13	φ1.2	Rc 3/8"	121.0	127.0			382.0	
Remark:	1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed					
Technical data									
Pipe	Thread	Flow rate (l/min) / pressure (MPa)							Tank ID (mm)
		0.15		0.2		0.3		0.35	
		L/min	Tank ID (mm)	L/min	Tank ID (mm)	L/min	Tank ID (mm)	L/min	
3"	Rc 1/2"	280	3000	320	3500	390	3500	415	4000
	Rc 3/4"	580	3500	660	4000	800	4500	860	5000
	Rc 1"	1000	4000	1130	5000	1370	6000	1470	6500
1 1/2"	Rc 1/4"	35		40		48		52	
	Rc 1/4"	70		80		97		104	
	Rc 3/8"	155		177		215		230	

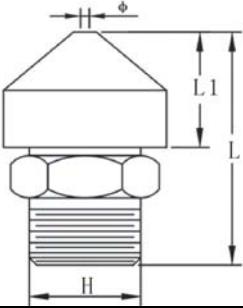
Square full cone nozzles

 5221		 5222			Specification <table border="1"> <thead> <tr> <th>P/n</th><th>Type</th><th>Thread</th><th>L(mm)</th><th>H(mm)</th><th>Weight(g)</th></tr> </thead> <tbody> <tr> <td rowspan="4">5221</td><td rowspan="4">Male threaded</td><td>1/8"</td><td>32</td><td>14</td><td>21.5</td></tr> <tr> <td>1/4"</td><td>39</td><td>17</td><td>40.5</td></tr> <tr> <td>3/8"</td><td>47</td><td>19</td><td>69.8</td></tr> <tr> <td>1/2"</td><td>57</td><td>25</td><td>205.0</td></tr> <tr> <td rowspan="4">5222</td><td rowspan="8">Female threaded</td><td>1/8"</td><td>30</td><td>14</td><td>29.5</td></tr> <tr> <td>1/4"</td><td>37</td><td>17</td><td>39.5</td></tr> <tr> <td>3/8"</td><td>46</td><td>19</td><td>70.5</td></tr> <tr> <td>1/2"</td><td>57</td><td>25</td><td>210.0</td></tr> </tbody> </table> <p>Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed</p>													P/n	Type	Thread	L(mm)	H(mm)	Weight(g)	5221	Male threaded	1/8"	32	14	21.5	1/4"	39	17	40.5	3/8"	47	19	69.8	1/2"	57	25	205.0	5222	Female threaded	1/8"	30	14	29.5	1/4"	37	17	39.5	3/8"	46	19	70.5	1/2"	57	25	210.0																																																																																																																																																																																																																																																																																																																																
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Application		Applied to cooling, quenching, part cleaning, gas cleaning, chemical cleaning and dedusting.																																																																																																																																																																																																																																																																																																																																																																																									
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<tr><td>1/8</td><td>2.4</td><td>1.3</td><td>1.5</td><td>2.0</td><td>2.7</td><td>3.7</td><td>4.5</td><td>5.1</td><td>5.6</td><td>6.1</td><td>6.6</td><td>7.8</td><td>60°</td><td>66°</td><td>60°</td></tr> <tr><td>1/4</td><td>2.8</td><td>1.6</td><td>2.6</td><td>3.3</td><td>4.5</td><td>6.2</td><td>7.4</td><td>8.5</td><td>9.4</td><td>10.2</td><td>11.0</td><td>13.0</td><td>62°</td><td>67°</td><td>61°</td></tr> <tr><td>1/4</td><td>3.2</td><td>1.6</td><td>3.1</td><td>3.9</td><td>5.4</td><td>7.4</td><td>8.9</td><td>10.2</td><td>11.3</td><td>12.3</td><td>13.2</td><td>15.5</td><td>70°</td><td>75°</td><td>68°</td></tr> <tr><td>1/4</td><td>3.9</td><td>1.6</td><td>3.7</td><td>4.7</td><td>6.5</td><td>9.0</td><td>10.8</td><td>12.3</td><td>13.7</td><td>14.8</td><td>15.9</td><td>18.8</td><td>78°</td><td>82°</td><td>75°</td></tr> <tr><td>3/8</td><td>4.0</td><td>2.4</td><td>4.6</td><td>5.9</td><td>8.1</td><td>11.1</td><td>13.4</td><td>15.3</td><td>17.0</td><td>18.4</td><td>19.8</td><td>23.0</td><td>71°</td><td>75°</td><td>68°</td></tr> <tr><td>1/2</td><td>5.6</td><td>3.2</td><td>7.5</td><td>9.5</td><td>13.0</td><td>17.9</td><td>22.0</td><td>25.0</td><td>27.0</td><td>30.0</td><td>32.0</td><td>38.0</td><td>71°</td><td>75°</td><td>68°</td></tr> <tr><td>1/2</td><td>6.4</td><td>3.2</td><td>9.3</td><td>11.8</td><td>16.2</td><td>22.0</td><td>27.0</td><td>31.0</td><td>34.0</td><td>37.0</td><td>40.0</td><td>47.0</td><td>78°</td><td>82°</td><td>75°</td></tr> <tr><td>3/4</td><td>6.7</td><td>4.4</td><td>12.9</td><td>16.3</td><td>22.0</td><td>31.0</td><td>37.0</td><td>42.0</td><td>47.0</td><td>51.0</td><td>55.0</td><td>65.0</td><td>71°</td><td>75°</td><td>68°</td></tr> <tr><td>1</td><td>9.9</td><td>5.6</td><td>27.0</td><td>35.0</td><td>48.0</td><td>65.0</td><td>79.0</td><td>90.0</td><td>100.0</td><td>109.0</td><td>117.0</td><td>137.0</td><td>78°</td><td>80°</td><td>73°</td></tr> <tr><td>1 1/4</td><td>12.7</td><td>6.4</td><td>46.0</td><td>58.0</td><td>79.0</td><td>109.0</td><td>132.0</td><td>150.0</td><td>167.0</td><td>181.0</td><td>198.5</td><td>230.0</td><td>78°</td><td>80°</td><td>73°</td></tr> <tr><td>1 1/2</td><td>14.3</td><td>8.7</td><td>59.0</td><td>75.0</td><td>103.0</td><td>142.0</td><td>171.0</td><td>195.0</td><td>220.0</td><td>235.0</td><td>255.0</td><td>300.0</td><td>73°</td><td>77°</td><td>70°</td></tr> <tr><td>2</td><td>15.5</td><td>11.1</td><td>75.0</td><td>95.0</td><td>130.0</td><td>179.0</td><td>215.0</td><td>250.0</td><td>275.0</td><td>300.0</td><td>320.0</td><td>375.0</td><td>66°</td><td>70°</td><td>64°</td></tr> <tr><td>2</td><td>17.4</td><td>11.1</td><td>93.0</td><td>118.0</td><td>162.0</td><td>225.0</td><td>270.0</td><td>305.0</td><td>340.0</td><td>370.0</td><td>395.0</td><td>470.0</td><td>70°</td><td>74°</td><td>67°</td></tr> <tr><td>2</td><td>21.0</td><td>11.1</td><td>124.0</td><td>157.0</td><td>215.0</td><td>300.0</td><td>360.0</td><td>410.0</td><td>455.0</td><td>495.0</td><td>530.0</td><td>630.0</td><td>79°</td><td>82°</td><td>74°</td></tr> <tr><td>2 1/2</td><td>19.8</td><td>14.3</td><td>126.0</td><td>160.0</td><td>220.0</td><td>305.0</td><td>365.0</td><td>420.0</td><td>465.0</td><td>510.0</td><td>540.0</td><td>640.0</td><td>62°</td><td>67°</td><td>61°</td></tr> <tr><td>2 1/2</td><td>22.2</td><td>14.3</td><td>152.0</td><td>193.0</td><td>265.0</td><td>365.0</td><td>440.0</td><td>510.0</td><td>560.0</td><td>610.0</td><td>650.0</td><td>770.0</td><td>75°</td><td>78°</td><td>71°</td></tr> <tr><td>2 1/2</td><td>28.6</td><td>17.5</td><td>245.0</td><td>310.0</td><td>430.0</td><td>590.0</td><td>710.0</td><td>810.0</td><td>900.0</td><td>980.0</td><td>1050.0</td><td>1230.0</td><td>81°</td><td>84°</td><td>76°</td></tr> <tr><td>5</td><td>47.6</td><td>28.6</td><td>770.0</td><td>980.0</td><td>1340.0</td><td>1840.0</td><td>2220.0</td><td>2540.0</td><td>2810.0</td><td>3060.0</td><td>3280.0</td><td>3860.0</td><td>89°</td><td>91°</td><td>83°</td></tr> <tr><td>6</td><td>81.8</td><td>44.5</td><td>1470.0</td><td>1860.0</td><td>2560.0</td><td>3520.0</td><td>4240.0</td><td>4840.0</td><td>5360.0</td><td>5830.0</td><td>6260.0</td><td>7370.0</td><td>102°</td><td>105°</td><td>95°</td></tr> </tbody> </table>																Thread	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)									Spray angle			0.03	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	0.05	0.15	0.6	1/8	1.6	1.3	0.93	1.2	1.6	2.2	2.7	3.1	3.4	3.7	4.0	4.7	40°	52°	47°	1/8	1.9	1.3	1.2	1.6	2.2	3.0	3.6	4.1	4.5	4.9	5.3	6.2	48°	63°	57°	1/8	2.4	1.3	1.5	2.0	2.7	3.7	4.5	5.1	5.6	6.1	6.6	7.8	60°	66°	60°	1/4	2.8	1.6	2.6	3.3	4.5	6.2	7.4	8.5	9.4	10.2	11.0	13.0	62°	67°	61°	1/4	3.2	1.6	3.1	3.9	5.4	7.4	8.9	10.2	11.3	12.3	13.2	15.5	70°	75°	68°	1/4	3.9	1.6	3.7	4.7	6.5	9.0	10.8	12.3	13.7	14.8	15.9	18.8	78°	82°	75°	3/8	4.0	2.4	4.6	5.9	8.1	11.1	13.4	15.3	17.0	18.4	19.8	23.0	71°	75°	68°	1/2	5.6	3.2	7.5	9.5	13.0	17.9	22.0	25.0	27.0	30.0	32.0	38.0	71°	75°	68°	1/2	6.4	3.2	9.3	11.8	16.2	22.0	27.0	31.0	34.0	37.0	40.0	47.0	78°	82°	75°	3/4	6.7	4.4	12.9	16.3	22.0	31.0	37.0	42.0	47.0	51.0	55.0	65.0	71°	75°	68°	1	9.9	5.6	27.0	35.0	48.0	65.0	79.0	90.0	100.0	109.0	117.0	137.0	78°	80°	73°	1 1/4	12.7	6.4	46.0	58.0	79.0	109.0	132.0	150.0	167.0	181.0	198.5	230.0	78°	80°	73°	1 1/2	14.3	8.7	59.0	75.0	103.0	142.0	171.0	195.0	220.0	235.0	255.0	300.0	73°	77°	70°	2	15.5	11.1	75.0	95.0	130.0	179.0	215.0	250.0	275.0	300.0	320.0	375.0	66°	70°	64°	2	17.4	11.1	93.0	118.0	162.0	225.0	270.0	305.0	340.0	370.0	395.0	470.0	70°	74°	67°	2	21.0	11.1	124.0	157.0	215.0	300.0	360.0	410.0	455.0	495.0	530.0	630.0	79°	82°	74°	2 1/2	19.8	14.3	126.0	160.0	220.0	305.0	365.0	420.0	465.0	510.0	540.0	640.0	62°	67°	61°	2 1/2	22.2	14.3	152.0	193.0	265.0	365.0	440.0	510.0	560.0	610.0	650.0	770.0	75°	78°	71°	2 1/2	28.6	17.5	245.0	310.0	430.0	590.0	710.0	810.0	900.0	980.0	1050.0	1230.0	81°	84°	76°	5	47.6	28.6	770.0	980.0	1340.0	1840.0	2220.0	2540.0	2810.0	3060.0	3280.0	3860.0	89°	91°	83°	6	81.8	44.5	1470.0	1860.0	2560.0	3520.0	4240.0	4840.0	5360.0	5830.0	6260.0	7370.0	102°	105°	95°
Thread	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)									Spray angle																																																																																																																																																																																																																																																																																																																																																																															
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1/8	1.6	1.3	0.93	1.2	1.6	2.2	2.7	3.1	3.4	3.7	4.0	4.7	40°	52°	47°																																																																																																																																																																																																																																																																																																																																																																												
1/8	1.9	1.3	1.2	1.6	2.2	3.0	3.6	4.1	4.5	4.9	5.3	6.2	48°	63°	57°																																																																																																																																																																																																																																																																																																																																																																												
1/8	2.4	1.3	1.5	2.0	2.7	3.7	4.5	5.1	5.6	6.1	6.6	7.8	60°	66°	60°																																																																																																																																																																																																																																																																																																																																																																												
1/4	2.8	1.6	2.6	3.3	4.5	6.2	7.4	8.5	9.4	10.2	11.0	13.0	62°	67°	61°																																																																																																																																																																																																																																																																																																																																																																												
1/4	3.2	1.6	3.1	3.9	5.4	7.4	8.9	10.2	11.3	12.3	13.2	15.5	70°	75°	68°																																																																																																																																																																																																																																																																																																																																																																												
1/4	3.9	1.6	3.7	4.7	6.5	9.0	10.8	12.3	13.7	14.8	15.9	18.8	78°	82°	75°																																																																																																																																																																																																																																																																																																																																																																												
3/8	4.0	2.4	4.6	5.9	8.1	11.1	13.4	15.3	17.0	18.4	19.8	23.0	71°	75°	68°																																																																																																																																																																																																																																																																																																																																																																												
1/2	5.6	3.2	7.5	9.5	13.0	17.9	22.0	25.0	27.0	30.0	32.0	38.0	71°	75°	68°																																																																																																																																																																																																																																																																																																																																																																												
1/2	6.4	3.2	9.3	11.8	16.2	22.0	27.0	31.0	34.0	37.0	40.0	47.0	78°	82°	75°																																																																																																																																																																																																																																																																																																																																																																												
3/4	6.7	4.4	12.9	16.3	22.0	31.0	37.0	42.0	47.0	51.0	55.0	65.0	71°	75°	68°																																																																																																																																																																																																																																																																																																																																																																												
1	9.9	5.6	27.0	35.0	48.0	65.0	79.0	90.0	100.0	109.0	117.0	137.0	78°	80°	73°																																																																																																																																																																																																																																																																																																																																																																												
1 1/4	12.7	6.4	46.0	58.0	79.0	109.0	132.0	150.0	167.0	181.0	198.5	230.0	78°	80°	73°																																																																																																																																																																																																																																																																																																																																																																												
1 1/2	14.3	8.7	59.0	75.0	103.0	142.0	171.0	195.0	220.0	235.0	255.0	300.0	73°	77°	70°																																																																																																																																																																																																																																																																																																																																																																												
2	15.5	11.1	75.0	95.0	130.0	179.0	215.0	250.0	275.0	300.0	320.0	375.0	66°	70°	64°																																																																																																																																																																																																																																																																																																																																																																												
2	17.4	11.1	93.0	118.0	162.0	225.0	270.0	305.0	340.0	370.0	395.0	470.0	70°	74°	67°																																																																																																																																																																																																																																																																																																																																																																												
2	21.0	11.1	124.0	157.0	215.0	300.0	360.0	410.0	455.0	495.0	530.0	630.0	79°	82°	74°																																																																																																																																																																																																																																																																																																																																																																												
2 1/2	19.8	14.3	126.0	160.0	220.0	305.0	365.0	420.0	465.0	510.0	540.0	640.0	62°	67°	61°																																																																																																																																																																																																																																																																																																																																																																												
2 1/2	22.2	14.3	152.0	193.0	265.0	365.0	440.0	510.0	560.0	610.0	650.0	770.0	75°	78°	71°																																																																																																																																																																																																																																																																																																																																																																												
2 1/2	28.6	17.5	245.0	310.0	430.0	590.0	710.0	810.0	900.0	980.0	1050.0	1230.0	81°	84°	76°																																																																																																																																																																																																																																																																																																																																																																												
5	47.6	28.6	770.0	980.0	1340.0	1840.0	2220.0	2540.0	2810.0	3060.0	3280.0	3860.0	89°	91°	83°																																																																																																																																																																																																																																																																																																																																																																												
6	81.8	44.5	1470.0	1860.0	2560.0	3520.0	4240.0	4840.0	5360.0	5830.0	6260.0	7370.0	102°	105°	95°																																																																																																																																																																																																																																																																																																																																																																												

Black liquid nozzles

						
4194	4195	4195-Qc	4196	4198		
Material	Material: 303SS, 316SS					
Description	Specially designed for spraying pulp black liquid, in even flat fan shape, well corrosion and heat resisting.					
Application	Applied to black liquid recycling.					
						
Specification						
P/n	Type	L(mm)	L1(mm)	H(mm)	H1(mm)	Weight(g)
4194	Threaded	95.0	32.0	85.5	54.5	1470.0
4195	Threaded	70.0	28.0	16.0	20.0	80.0
4195-Qc	Quick-disconnect	70.0	28.0	12.0	20.0	80.0
4196	Threaded	78.5	31.0	44.0	32.0	255.0
4198	Threaded	43.5		36.0		175.0
Remark: 1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed			
Technical data						
Code	Orifice(mm)			Flow rate (L/min)		
4195—750	19.1			115.0		
4195—875	22.3			166.0		
4195—1000	25.4			189.0		
4195—1125	28.6			246.0		

Dedusting nozzles

					
Material	Material: Brass, 303SS, 316SS				
Description	There're vanes inside, can deliver fine full cone spray, big orifice and passage can well avoid blocking, spray angle of 50°to 120°available.				
Application	Applied to chimney dedusting, quenching, cooling and chemical treating.				



Specification

P/n	Thread	L(mm)	L1(mm)	H(mm)	Weight(g)
4251	Rp1/2"、Rp3/4"、Rp1"、Rp 11/2"	75.0	44.0	34.0	

Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed

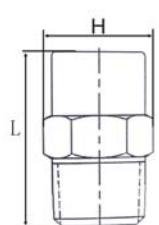
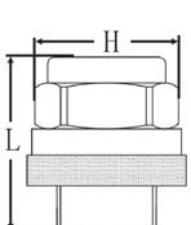
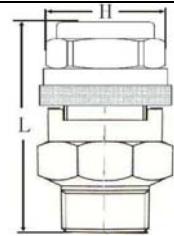
Technical data (Item 4251)

Thread	Code	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)									Spray angle			
				0.05	0.07	0.15	0.2	0.3	0.4	0.5	0.6	0.7	1.0	0.05	0.015	0.6
3/4"	2.5	4.9	4.4	9.6	11.2	15.9	18.2	22.0	25.0	28.0	30.0	32.0	38.0	48°	50°	46°
	4.0	6.4	4.4	15.4	18.0	26.0	29.0	35.0	40.0	44.0	48.0	52.0	61.0	67°	70°	63°
1"	4.2	6.0	5.6	16.2	18.9	27.0	31.0	37.0	42.0	47.0	51.0	54.0	64.0	48°	50°	46°
	7.0	8.3	5.6	27.0	31.0	45.0	51.0	61.0	70.0	78.0	84.0	91.0	107.0	67°	68°	62°
	8.0	9.5	5.6	31.0	36.0	51.0	58.0	70.0	80.0	89.0	97.0	104.0	122.0	72°	81°	82°
	10.0	11.9	5.6	38.0	45.0	64.0	73.0	88.0	100.0	111.0	121.0	130.0	153.0	78°	90°	94°
1 1/2"	10.0	9.5	8.7	38.0	45.0	64.0	73.0	88.0	100.0	111.0	121.0	130.0	153.0	48°	50°	44°
	16.0	12.7	8.7	62.0	72.0	102.0	116.0	140.0	160.0	178.0	193.0	210.0	245.0	72°	74°	64°
	20.0	14.3	8.7	77.0	90.0	128.0	146.0	175.0	200.0	220.0	240.0	260.0	305.0	74°	76°	66°

Technical data (Item 4253)

Thread	Code	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)									Spray angle	
				0.01	0.02	0.03	0.05	0.07	0.1	0.15	0.2	0.3	0.4	0.6
2"	45	25.4		122	168	205	255	300	355	425	485	590	670	50°
2"	45		29.0	122	168	205	255	300	355	425	485	590	670	65°
2"	60	32.1		163	225	270	340	400	470	570	650	780	890	65°
2"	60		36.1	163	225	270	340	400	470	570	650	780	890	95°
2-1/2"	90	39.7		245	335	405	510	600	710	850	970	1170	1330	65°
2-1/2"	90		44.8	245	335	405	510	600	710	850	970	1170	1330	95°
3"	110	39.3		300	410	495	630	730	860	1040	1190	1430	1630	50°
3"	110	42.5		300	410	495	630	730	860	1040	1190	1430	1630	65°
3"	110		46.4	300	410	495	630	730	860	1040	1190	1430	1630	95°
3"	140	50.0		380	530	630	800	930	1100	1320	1510	1820	2070	65°
3"	140		57.2	380	530	630	800	930	1100	1320	1510	1820	2070	95°
4"	190	52.0		520	710	860	1080	1260	1490	1790	2050	2470	2810	50°
4"	190	56.0	60.3	520	710	860	1080	1260	1490	1790	2050	2470	2810	65°
4"	190		60.3	520	710	860	1080	1260	1490	1790	2050	2470	2810	95°
4"	250	66.7		680	940	1130	1420	1660	1960	2630	2690	3240	3700	65°
4"	250		76.6	680	940	1130	1420	1660	1960	2360	2690	3240	3700	95°
5"	280	62.7		760	1050	1260	1590	1860	2190	2640	3010	3630	4140	50°
5"	280	67.5		760	1050	1260	1590	1860	2190	2640	3010	3630	4140	65°
5"	280		72.6	760	1050	1260	1590	1860	2190	2640	3010	3630	4140	95°
5"	380	81.8		1030	1420	1710	2160	2520	2970	3580	4090	4930	5620	65°
5"	380		92.9	1030	1420	1710	2160	2520	2970	3580	4090	4930	5620	95°

Quenching nozzles

							
4261	4265	4267-Qc	Material: Brass, 303SS, 316SS				
Description	Deliver fine full cone spray, medium to big drips, spray angle of 43° to 110° available. Quick-disconnected design saving time for replacement.						
Application	Applied to foam dealing, dedusting, quenching, cooling and gas cleaning.						



Specification

P/n	Thread	L(mm)	H(mm)	Weight(g)	P/n	Thread	L(mm)	H(mm)	Weight(g)
4261	Rp 1/8"	22.2	11.1	28.4	4265	Rp 1/8"	32.5	14.3	21.3
	Rp 1/4"	27.0	14.2	42.5		Rp 1/4"	39.7	17.4	42.5
	Rp 3/8"	31.8	17.5	56.7		Rp 3/8"	46.8	20.6	71.3
	Rp 1/2"	38.1	22.2	85.1		Rp 1/2"	56.4	25.4	171.2
	Rp 3/4"	44.5	28.6	170.0	4267-Qc	Rp 3/4"	42.5	14.5	61.3
	Rp 1"	55.6	34.9	397.0		Rp 3/4"	50.0	17.4	82.5
						Rp 3/4"	56.8	20.6	110.0
						Rp 3/4"	66.5	25.4	208.0

Remark: 1. Dimension will differ a bit in different materials

2. Please always indicate what thread needed

Technical data

P/n	Orifice (mm)	Thread	Flow rate (l/min) / pressure (MPa)							
			0.07	0.1	0.2	0.3	0.5	1.0	1.5	2.0
4261	1.09	Rp 1/8"	0.497	0.587	0.814	0.984	1.25	1.73	2.10	2.40
	1.40		0.993	1.17	1.63	1.97	2.50	3.47	4.19	4.80
	1.83		1.49	1.76	2.44	2.95	3.75	5.20	6.29	7.20
	2.08	Rp 1/4"	1.99	2.35	3.25	3.94	5.01	6.93	8.39	9.6
	2.77		2.98	3.52	4.88	5.91	7.51	10.4	12.6	14.4
	3.18	Rp 3/8"	3.97	4.7	6.51	7.87	10.0	13.9	16.8	19.2
	3.96		5.96	7.05	9.76	11.8	15.0	20.8	25.2	28.8
	4.78		7.95	9.40	13.	15.7	20.0	27.7	33.6	38.4
	5.16	Rp 1/2"	9.93	11.7	16.3	19.7	25.0	34.7	41.9	48.0
	5.56		11.9	14.1	19.5	23.6	30.0	41.6	50.3	57.6
	5.79		13.9	16.4	22.8	27.6	35.0	48.5	58.7	67.2
	5.94	Rp 3/4"	15.9	18.8	26.0	31.5	40.0	55.5	67.1	76.8
	7.14		19.9	23.5	32.5	39.4	50.1	69.3	83.9	96.0
	7.92		23.8	28.2	39.0	47.2	60.1	83.2	101.0	115.0
	8.33	Rp 1"	29.8	35.2	48.8	59.1	75.1	104.0	126.0	144.0
	9.53		39.7	47.0	65.1	78.7	100.0	139.0	168.0	192.0

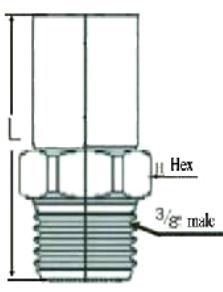
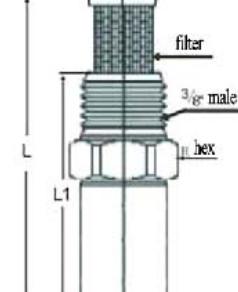
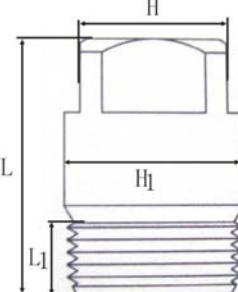
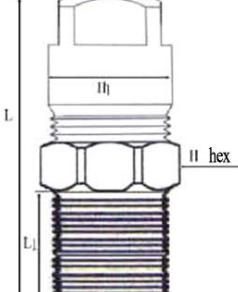
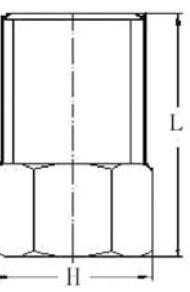
Technical data

P/n	Code	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)								Spray angle				
				0.05	0.07	0.15	0.2	0.3	0.4	0.5	0.6	0.7	1.0	0.05	0.15	0.6
4265	2.0	1.2	1.0	0.65	0.76	1.1	1.2	1.5	1.7	1.9	2.0	2.2	2.6	43°	50°	46°
	3.0	1.5	1.0	0.85	1.1	1.6	1.9	2.2	2.5	2.8	3.1	3.3	3.9	52°	65°	59°
	3.5	1.6	1.3	1.1	1.3	1.9	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50°	46°
	5.0	2.0	1.3	1.6	1.9	2.7	3.1	3.7	4.2	4.7	5.1	5.5	6.5	52°	67°	59°
	6.5	2.38	1.6	2.1	2.5	3.5	4.0	4.8	5.5	6.1	6.7	7.1	8.4	45°	50°	46°
	10.0	3.18	1.6	3.3	3.8	5.4	6.2	7.4	8.5	9.4	10.2	11.0	13.0	58°	67°	61°
4267-Qc	9.5	2.6	2.4	5.1	3.6	5.1	5.9	7.1	8.1	8.9	9.7	10.4	12.3	45°	50°	46°
	15.0	3.6	2.4	4.9	5.7	8.1	9.3	11.2	12.7	14.1	15.4	16.5	19.4	64°	67°	61°
	22.0	4.5	2.8	7.2	8.4	11.9	13.6	16.4	18.7	21	23	24	28	87°	90°	82°
	16.0	3.5	3.2	5.2	6.1	8.7	9.9	11.9	13.6	15.1	16.4	17.6	21	48°	50°	46°
	25.0	4.6	3.2	8.2	9.5	13.5	15.4	18.6	21	24	26	27	32	64°	67°	61°
	32.0	5.2	3.6	10.4	12.2	17.3	19.8	24	27	30	33	35	41	72°	75°	68°
	40.0	6.2	3.6	13.1	15.2	22	25	30	34	38	41	44	52	88°	91°	83°
	1.0	0.89	0.64		0.38	0.54	0.62	0.74	0.85	0.94	1.0	1.1	1.5		58°	53°
	1.5	1.2	0.64	0.49	0.57	0.81	0.93	1.1	1.3	1.4	1.5	1.7	1.9	52°	65°	59°

Quenching nozzles

Material	Material: Brass, 303SS, 316SS															
Description	Deliver fine full cone spray, medium to big drips, spray angle of 15°to 110° available. Quick-disconnected design saving time for replacement.															
Application	Applied to foam dealing, dedusting, quenching, cooling and gas cleaning.															
Specification																
P/n	Thread	L(mm)	H (mm)	Weight(g)	P/n	Thread	L(mm)	H (mm)	Weight(g)							
4281	Rp 1/8"	38.9	17.5	57.0	4284	Rc 3/4"	72.0	31.8	427.5							
	Rp 1/4"	45.2	20.6	85.6		Rc 1"	92.0	38.0	570.0							
	Rp 3/8"	55.6	25.4	171.2		Rc 1 1/4"	117.5	47.6	1141.0							
	Rp 1/2"	69.9	31.8	313.8												
4283	Rp 1"	92.0	49.0	570.0												
	Rp 1 1/4"	127.0	42.8	1027.0												
	Rp 1 1/2"	154.8	47.6	1483.5												
	Rp 2"	200.0	60.3	3345.3												
	Rp 2 1/2"	263.5	73.0	5443.2												
P/n	Thread	Orifice	Length(mm)	Body OD(mm)	Bottom OD(mm)	Weight(Kg)										
4286	Rp 2"	φ20	137	65	71	1.47										
	Rp 2 1/2"	φ25	180	75	87	2.58										
Remark: 1. Dimension will differ a bit in different materials				2. Please always indicate what thread needed												
Technical data							Spray angle									
P/n	Thread	Code	OD	Flow rate (l/min) / pressure (MPa)												
				0.1	0.15	0.2	0.3	0.4	0.55	0.7	1.0	1.5	2.0	0.1	0.3	0.7
4281	1/8	1507	1.5	1.59	2.23	2.77	3.18	3.91	4.50	5.0	6.36	7.27	9.09	13°	15°	15°
	1/4	1514	2.5	3.18	4.5	5.5	6.4	7.7	9.1	10.0	12.3	14.1	17.3	13°	15°	15°
	3/8	1530	3.0	6.8	9.6	11.8	13.6	16.8	19.1	21.4	26.4	30.5	37.3	13°	15°	15°
	1/2	1550	4.5	11.1	15.9	19.6	22.7	27.7	32.3	35.9	44.1	50.9	62.3	13°	15°	15°
	5/8	1590	5.5	20.5	29.1	35.5	40.9	50.0	57.7	64.6	79.1	90.3	113.7	13°	15°	15°
4283	1	3070	5.0	19.5	22.3	27.7	31.8	39.1	45.0	50.5	61.8	71.4	87.3	27°	30°	30°
		30100	6.5	27.7	32.3	39.6	45.5	55.5	64.1	71.8	88.2	100.0	122.7	27°	30°	30°
	1 1/4	30150	7.5	41.8	48.2	59.1	68.2	83.6	95.5	109.1	131.8	154.6	186.4	27°	30°	30°
		30200	9.0	55.5	64.1	78.6	90.9	109.1	127.2	145.5	177.3	204.6	250.0	27°	30°	30°
4286	1 1/2	30250	9.5	69.6	80.5	100.1	113.7	140.9	159.1	181.8	218.2	245.6	309.1	27°	30°	30°
		30300	10.0	83.6	95.5	118.2	133.7	168.2	190.9	213.7	263.7	304.6	372.8	27°	30°	30°
		30350	11.0	95.5	113.7	136.4	159.1	195.5	222.8	250.0	309.1	354.6	436.4	28°	30°	30°
	2	30400	12.0	109.1	127.3	159.1	181.8	222.8	259.1	286.4	350.0	404.6	500.1	28°	30°	30°
		30500	13.5	140.9	159.1	195.5	227.3	277.3	322.8	359.1	440.1	509.2	622.8	28°	30°	30°
4284	2 1/2	30600	14.5	168.2	190.9	236.4	272.8	331.9	386.4	431.8	527.3	609.2	745.5	28°	30°	30°
		30700	16.0	195.5	222.8	277.3	318.2	391.0	450.1	504.6	618.3	713.7	872.8	28°	30°	30°
		301000	19.0	277.3	322.8	395.5	454.6	544.6	641.0	718.3	882.0	1018.3	1245.6	28°	30°	30°
	3	301100	20.0	304.6	354.6	431.9	500.1	613.7	709.2	791.0	968.3	1118.3	1368.3	28°	30°	30°
		301200	20.5	331.9	386.4	472.8	545.5	668.3	772.8	863.7	1054.7	1218.3	1495.6	28°	30°	30°
	3/4	15150	7.5	34.1	48.2	50.1	68.2	83.7	95.5	109.1	131.8	154.6	186.4	13°	15°	15°
	1	15280	10.0	63.6	90.0	109.1	127.3	154.6	181.8	200.0	245.5	286.4	350.0	13°	15°	15°
	1 1/4	15430	12.0	100.0	136.4	168.2	195.5	240.9	277.3	309.1	377.3	436.4	536.4	14°	15°	15°

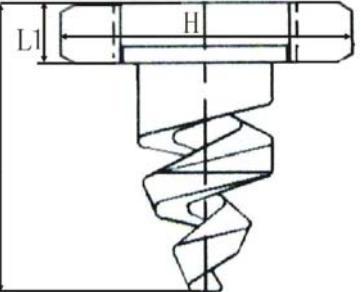
Quenching nozzles

																
Material	Material: Brass, 303SS, 316SS															
Description	Deliver fine full cone spray, medium to big drips, spray angle of 43°to 110° available. Quick-disconnected design saving time for replacement.															
Application	Applied to foam dealing, dedusting, quenching, cooling and gas cleaning.															
Specification																
P/n	Thread	L(mm)	L1(mm)	H(mm)	H1(mm)	Weight(g)										
4311	Rp1/4"	25.0	12.0													
4313	Rp1/8"	18.0	10.0													
4315	Rp1/4"	20.0	10.0	12.0												
4317																
4326	Rc1/8"	22.0		14.0												
	Rc1/4"	32.0		19.0												
	Rc3/8"	38.0		22.0												
	Rc1/2"	50.0		27.0												
	Rc3/4"	64.0		32.0												
Remark: 1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed													
																
Technical data																
P/n	Code	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)									Spray angle			
				0.05	0.07	0.15	0.2	0.3	0.4	0.5	0.6	0.7	1.0	0.05	0.15	0.6
4311	1.0	0.89	0.64		0.38	0.54	0.62	0.74	0.85	0.94	1.0	1.1	1.5	58°	53°	
	1.5	1.2	0.64	0.49	0.57	0.81	0.93	1.1	1.3	1.4	1.5	1.7	1.9	52°	65°	59°
4311-Fp	2.0	1.2	1.0	0.65	0.76	1.1	1.2	1.5	1.7	1.9	2.0	2.2	2.6	43°	50°	46°
	3.0	1.5	1.0	0.85	1.1	1.6	1.9	2.2	2.5	2.8	3.1	3.3	3.9	52°	65°	59°
4313	3.5	1.6	1.3	1.1	1.3	1.9	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50°	46°
	5.0	2.0	1.3	1.6	1.9	2.7	3.1	3.7	4.2	4.7	5.1	5.5	6.5	52°	67°	59°
4315	6.5	2.38	1.6	2.1	2.5	3.5	4.0	4.8	5.5	6.1	6.7	7.1	8.4	45°	50°	46°
	10	3.18	1.6	3.3	3.8	5.4	6.2	7.4	8.5	9.4	10.2	11.0	13.0	58°	67°	61°
4317	9.5	2.6	2.4	5.1	3.6	5.1	5.9	7.1	8.1	8.9	9.7	10.4	12.3	45°	50°	46°
	15	3.6	2.4	4.9	5.7	8.1	9.3	11.2	12.7	14.1	15.4	16.5	19.4	64°	67°	61°
4326	22	4.5	2.8	7.2	8.4	11.9	13.6	16.4	18.7	21	23	24	28	87°	90°	82°
	16	3.5	3.2	5.2	6.1	8.7	9.9	11.9	13.6	15.1	16.4	17.6	21	48°	50°	46°
	25	4.6	3.2	8.2	9.5	13.5	15.4	18.6	21	24	26	27	32	64°	67°	61°
	32	5.2	3.6	10.4	12.2	17.3	19.8	24	27	30	33	35	41	72°	75°	68°
	40	6.2	3.6	13.1	15.2	22	25	30	34	38	41	44	52	88°	91°	83°

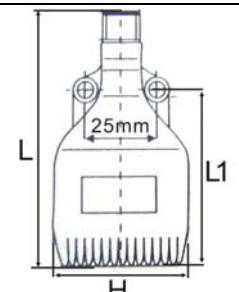
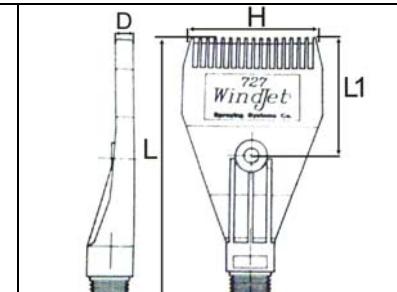
Spiral nozzles

4511×304SS	4511xCu	4512	4513	4515	4518								
Material	Material: Brass, 303SS, 316SS, Nylon, Teflon												
Description	Deliver big flow full cone or hollow cone spray, big passage can well avoid blocking, spray angle 60° to 170° available.												
Application	Applied to waste paper and waste gas cleaning, gas cooling, quenching and dedusting.												
Specification													
P/n	Thread	L(mm)	L1(mm)	H(mm)	Weight(g)								
4511×SS	Rp 3/4"	65.0	14.0	22.0	60.0								
4511×Cu	Rp 3/4"	70.0	15.5	27.0	130.0								
4512	Rc 3/4"	155.0	39.5	52.0	520.0								
4513	Rp 3/4"	65.0	14.0	22.0	35.0								
4515	Rp 3/4"	90.0	19.5	35.0	80.0								
4518	Rc 3/4"	69.5	27.0	23.5	60.0								
Remark: 1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed										
Technical data													
Thread	Code	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)					Spray angle				
				0.07	0.15	0.3	0.7	2.5	60°	90°	120°	150°	170°
1/4	7	2.4	2.4	2.6	3.9	5.5	8.4	16	60°	90°	120°		
	13	3.2	3.2	4.9	7.3	10.3	15.7	30	60°	90°	120°	150°	170°
	20	4.0	3.2	7.6	11.2	15.8	24	46	60°	90°	120°	150°	170°
3/8	7	2.4	2.4	2.6	3.9	5.5	8.4	16	60°				
	13	3.2	3.2	4.9	7.3	10.3	15.7	30	60°	90°	120°	150°	170°
	20	4.0	3.2	7.6	11.2	15.8	24	46	60°	90°	120°	150°	170°
	30	4.8	3.2	11.4	16.7	24	36	68	60°	90°	120°	150°	170°
	40	5.6	3.2	15.1	22	32	48	91	60°	90°	120°	150°	170°
	53	6.4	3.2	20	30	42	64	121	60°	90°	120°	150°	170°
	82	7.9	3.2	31	46	65	99	187	60°	90°	120°	150°	170°
1/2	120	9.5	4.8	45	67	95	145	270	60°	90°	120°	150°	170°
	164	11.1	4.8	62	92	129	198	370	60°	90°	120°	150°	170°
3/4	210	12.7	4.8	80	117	166	255	480	60°	90°	120°	150°	170°
1	340	15.9	6.4	130	190	270	410	775	60°	90°	120°	150°	170°
	470	19.1	6.4	179	260	370	565	1070	60°	90°	120°	150°	170°
1-1/2	640	22.2	7.9	245	355	505	770	1460	60°	90°	120°	150°	170°
	820	25.4	7.9	310	455	645	990	1870	60°	90°	120°	150°	170°
	960	28.6	7.9	360	535	755	1160	2190	60°	90°	120°	150°	170°
2	1400	34.9	11.1	535	780	1105	1690	3190	60°	90°	120°	150°	170°
	1780	38.1	11.1	680	995	1405	2150	4060	60°	90°	120°	150°	170°
3	2560	44.5	14.3	980	1430	2020	3090	5830	60°	90°	120°		
	3360	50.8	14.3	1280	188	2650	4050	7660	60°	90°	120°		
4	5250	63.5	15.9	2000	2930	4140	6330	11960	60°	90°	120°		

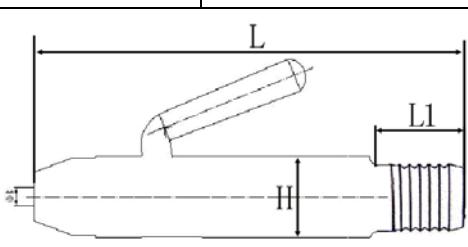
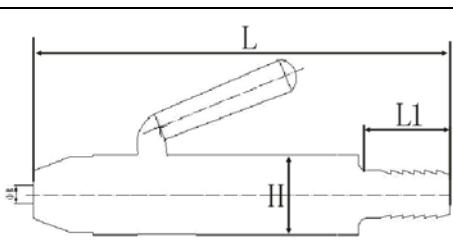
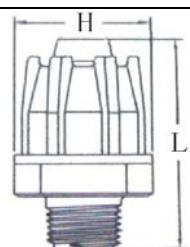
Desulfurizing nozzles

													
4531	4535												
Material	Material: SiC												
Description	Deliver large flow full cone or hollow cone spray, big passage can well avoid blocking, spray angle 60°to 170°available, flange connection design.												
Application	Applied to waste gas desulfurizing, gas cooling and dedusting.	 Spray pattern											
Technical data													
Connection size	Spray angle (0.07)					Code	Orifice (mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)				
	60°	90°	120°	150°	170°				0.07	0.15	0.3	0.7	2.5
50.8mm	1400	35	11	535	780	1105	1690	3190
	1780	38	11	680	995	1405	2150	4060
76.2mm	2560	45	14	980	1430	2020	3090	5830
	3360	50	14	1280	1880	2650	4050	7660
101.6mm	5250	63	16	2000	2930	4140	6330	11960

Air nozzles

																							
Material	Material: ABS																						
Description	The special designs can make the nozzles more quiet when working, and can deliver high impact parallel streams too under low water pressure.																						
Application	Applied to parts cleaning, cooling, drying and light materials moving.																						
Specification																							
P/n	Type	L (mm)	L1 (mm)	H (mm)	Mounting hole(pc)	Weight (g)																	
5291	Male threaded	90.0	60.0			15.0																	
5291-1	Male threaded	90.0	60.0		1	20.0																	
5291-2	Male threaded	90.0	60.0	47.5	2	20.0																	
Remark: 1. Dimension will differ a bit in different materials			2. Please always indicate what thread needed																				
Technical data																							
<p>[Air consumption]</p> <table border="1"> <caption>Data for Graph 1 (Nozzle 5291)</caption> <thead> <tr> <th>Air pressure (MPa)</th> <th>Air output (Nm/min)</th> <th>Air supply (Nm/min)</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>200</td><td>150</td></tr> <tr><td>0.2</td><td>400</td><td>300</td></tr> <tr><td>0.3</td><td>600</td><td>450</td></tr> <tr><td>0.4</td><td>800</td><td>600</td></tr> <tr><td>0.5</td><td>1000</td><td>750</td></tr> </tbody> </table>					Air pressure (MPa)	Air output (Nm/min)	Air supply (Nm/min)	0.1	200	150	0.2	400	300	0.3	600	450	0.4	800	600	0.5	1000	750	
Air pressure (MPa)	Air output (Nm/min)	Air supply (Nm/min)																					
0.1	200	150																					
0.2	400	300																					
0.3	600	450																					
0.4	800	600																					
0.5	1000	750																					
<p>[Air consumption]</p> <table border="1"> <caption>Data for Graph 2 (Nozzle 5291-1)</caption> <thead> <tr> <th>Air pressure (MPa)</th> <th>Air output (Nm/min)</th> <th>Air supply (Nm/min)</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>300</td><td>200</td></tr> <tr><td>0.2</td><td>600</td><td>400</td></tr> <tr><td>0.3</td><td>900</td><td>600</td></tr> <tr><td>0.4</td><td>1200</td><td>800</td></tr> <tr><td>0.5</td><td>1500</td><td>1000</td></tr> </tbody> </table>					Air pressure (MPa)	Air output (Nm/min)	Air supply (Nm/min)	0.1	300	200	0.2	600	400	0.3	900	600	0.4	1200	800	0.5	1500	1000	
Air pressure (MPa)	Air output (Nm/min)	Air supply (Nm/min)																					
0.1	300	200																					
0.2	600	400																					
0.3	900	600																					
0.4	1200	800																					
0.5	1500	1000																					
<p>[Air consumption]</p> <table border="1"> <caption>Data for Graph 3 (Nozzle 5291-2)</caption> <thead> <tr> <th>Air pressure (MPa)</th> <th>Air output (Nm/min)</th> <th>Air supply (Nm/min)</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>400</td><td>300</td></tr> <tr><td>0.2</td><td>800</td><td>600</td></tr> <tr><td>0.3</td><td>1200</td><td>900</td></tr> <tr><td>0.4</td><td>1600</td><td>1200</td></tr> <tr><td>0.5</td><td>2000</td><td>1500</td></tr> </tbody> </table>					Air pressure (MPa)	Air output (Nm/min)	Air supply (Nm/min)	0.1	400	300	0.2	800	600	0.3	1200	900	0.4	1600	1200	0.5	2000	1500	
Air pressure (MPa)	Air output (Nm/min)	Air supply (Nm/min)																					
0.1	400	300																					
0.2	800	600																					
0.3	1200	900																					
0.4	1600	1200																					
0.5	2000	1500																					
Remark: maximum pressure at 0.7MPa.																							

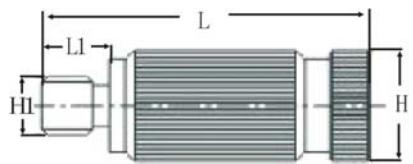
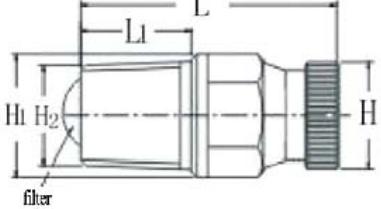
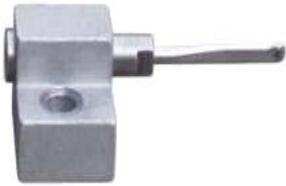
Air nozzles

							
5281	5283	5293	5295				
Material	Material: 303SS, 316SS						
Description	Special designs can well protect the orifices, can take up pressure up 0.7MPa, deliver round compressed air flow.						
Application	Applied to parts cleaning, cooling, drying and light materials moving.						
  							
Specification							
P/n	Type	Thread	L (mm)	L1 (mm)	H (mm)	Weight (g)	
5281	Male threaded	Rp 3/8"	181.0	41.0	35.0	420.0	
5283	Hose shank		181.0	21.0	35.0	420.0	
5293	Male threaded	Rp 1/4"	48.0		25.0	50.0	
5295	Male threaded	Rp 1/4"	48.0		25.0	50.0	
Remark: 1. Dimension will differ a bit in different materials		2. Please always indicate what thread needed					
Technical data							
P/n	Thread	Code	Flow rate (l/min) / pressure (MPa)				
			0.07	0.2	0.3	0.4	0.5
5293	Rp1/4"	11	147	266	354	442	527
	Rp1/4"	15	181	345	462	578	694
5295	Rp1/4"	23	294	530	710	889	1065
							1237

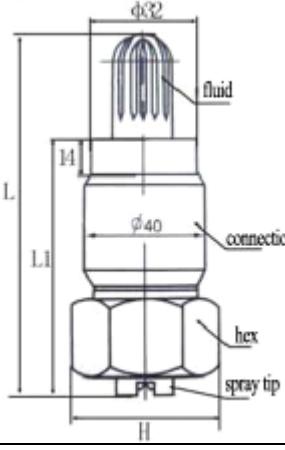
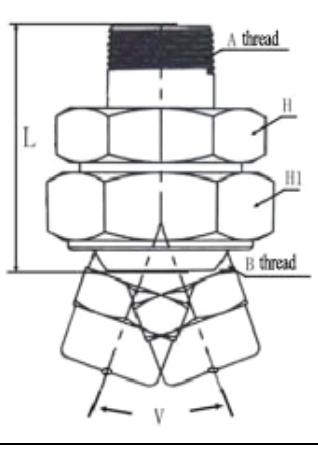
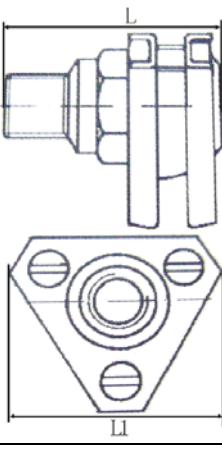
	Material	Material: 303SS, 316SS
	Description	Can rolling up hoses thereby saving the space.
	Application	Applied to rolling up hoses.

Garden spray nozzles

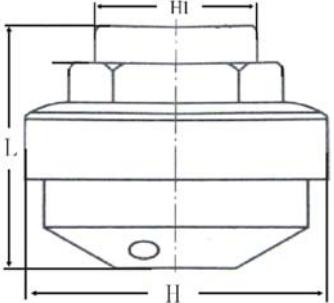
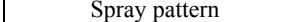
							
							
Specification							
Material	Material: Brass						
Description	Easy for assembling and can offer various spring shapes.						
Application	Applied to garden springs.						
Technical data							
P/n	Thread	Working pressure (KPa)	Capacity (M ³ /H)	Spray height (M)	Coverage (M)	Drawing	
5382	M10	15-35	0.1-1.0	0.5-1.5	Solid stream		
	1/2"	15-65	0.3-1.5	1.0-4.0	Solid stream		
	1/2"	50-150	0.3-1.5	1.0-3.5	Solid stream		
	3/4"	15-80	1.0-3.0	1.0-5.0	Solid stream		
	3/4"	50-150	1.0-3.0	1.0-5.0	Solid stream		
	1"	50-100	2.0-4.0	3.0-6.0	Solid stream		
	1"	50-150	2.0-4.0	3.0-6.05	Solid stream		
	1 1/2"	50-150	3.0-6.0	3.0-7.0	Solid stream		
	2"	50-200	5.0-8.0	3.0-8.0	Solid stream		
	2 1/2"	70-250	10.0-25.0	3.5-15.0	Solid stream		
	3"	70-330	10.0-40.0	3.5-20.0	Solid stream		
5388	1/2"	40	3.0	1.3	1.0		
	3/4"	40	5.0	1.5	1.2		
	1"	40	7.0	1.5	1.3		
	1 1/2"	60	10.0	1.8	1.5		
	2"	80	12.0	2.0	1.8		
5392	1 1/2"	20-50	3.2-5.6	0.3-0.6 0.2-0.3	0.6-0.9		
	2"	30-65	4.5-7	0.4-0.7 0.3-0.4	0.6-1.3		
5395	Material	Material: Brass, 303SS, 316SS					
	Description	Assembled beyond the spray area, corrosion and strike resisting, can deliver rotating spray in very nice shape and cover big area.					
	Application	Applied to showering in the grass ground and garden.					
5397	Material	Material: Brass, 303SS, 316SS					
	Description	Assembled beyond the spray area, corrosion and strike resisting, can deliver rotating spray in very nice shape and cover big area.					
	Application	Applied to showering in the grass ground and garden.					

										
5475	5477	Material: Brass, 303SS								
Description	Can deliver very fine spray in fog shape at pressure of 20-70bar, liquids are very small, special design inside can well prevent dropping, strainer is in Teflon material.									
Application	Applied to derusting, chemical dealing, liquid coating and workshop humidifying.									
Specification			Specification							
P/n	L(mm)	L1(mm)	H(mm)	H1(mm)	H2(mm)	P/n	Orifice (mm)	Pressure(MPa)	Flow rate	
5475	24.5	5.0	φ9.5	3/16×24		5475	0.15	0.2~0.7	0.2~0.46 L/min	
5477	23.5	10.0	φ9.5	11.0	G13/8×28		0.20		0.49~0.89 L/min	
Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed			5477	0.30	0.30		0.80~1.45 L/min			
				0.40	0.40		0.95~1.78 L/min			
				0.50	0.50		1.30~2.43 L/min			
		Material	Material: 303SS, 316SS							
5478		Description	Can deliver very fine spray in fog shape at pressure of 20-70bar, liquids are very small, special design inside can well prevent dropping, strainer is in Teflon material.							
		Application	Applied to derusting, chemical dealing, liquid coating and workshop humidifying.							

Steel nozzles

												
5541	5543	5545										
Material	Material: Brass, 303SS, 316SS											
Description	Special design for the black liquid spraying, well corrosion and heat resisting, can deliver high impact stream for cleaning, also well avoid blocking.											
Application	Applied to black liquid recycling.											
												
Specification												
P/n	L(mm)	L1(mm)	H(mm)	Connector	Retainer	Weight(g)						
5541	138.0	84.0	41.0	66.0	29.5	555.0						
5543	61.0		24.0		28.5	180.0						
5545	56.0	51.0		41.5		145.0						
Remark:	1. Dimension will differ a bit in different materials	2. Please always indicate what thread needed										
Technical data												
P/n	Orifice (mm)	Flow rate (l/min) / pressure (MPa)										
		0.03	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	2.0	5.5
5541	0.71	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3
	0.84	0.19	0.34	0.48	0.59	0.48	0.76	0.84	0.90	1.1	1.5	2.0
	0.99	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7
	1.2	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0
	1.4	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4
	1.5	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7
	1.7	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1
	2.0	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.85
	2.2	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5
	2.7	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20
5543	3.2	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27
	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40
5545	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54
	4.4	6.2	11.4	16.1	19.7	23	23	28	30	36	51	68
	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81
	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94
	5.2	10.0	18.2	26	32	36	41	45	48	58	82	108
	6.0	12.5	23.0	32	39	46	51	56	60	72	102	135
	6.4	15.0	27.0	39	47	55	61	67	72	86	122	162
	7.5	18.7	34.0	48	59	68	76	84	90	108	153	205
	8.3	25	46.0	64	79	91	102	112	121	144	205	270
	9.5	31	57.0	81	99	114	127	140	151	180	255	340

Oil gun nozzles

 5526			Specification <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Thread</th><th>L(mm)</th><th>H(mm)</th><th>H1(mm)</th><th>Weight(g)</th></tr> </thead> <tbody> <tr><td>Rc 1/4"</td><td>27.0</td><td>35.0</td><td>21.0</td><td>30.0</td></tr> <tr><td>Rc 3/8"</td><td></td><td></td><td></td><td></td></tr> <tr><td>Rc 1/2"</td><td></td><td></td><td></td><td></td></tr> <tr><td>Rc 3/4"</td><td></td><td></td><td></td><td></td></tr> <tr><td>Rc 1"</td><td></td><td></td><td></td><td></td></tr> <tr><td>Rc 1 1/2"</td><td></td><td></td><td></td><td></td></tr> <tr><td>Rc 2"</td><td></td><td></td><td></td><td></td></tr> <tr><td>Rc 3"</td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <p>Remark: 1. Dimension will differ a bit in different materials 2. Please always indicate what thread needed</p>					Thread	L(mm)	H(mm)	H1(mm)	Weight(g)	Rc 1/4"	27.0	35.0	21.0	30.0	Rc 3/8"					Rc 1/2"					Rc 3/4"					Rc 1"					Rc 1 1/2"					Rc 2"					Rc 3"				
Thread	L(mm)	H(mm)	H1(mm)	Weight(g)																																																
Rc 1/4"	27.0	35.0	21.0	30.0																																																
Rc 3/8"																																																				
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Rc 2"																																																				
Rc 3"																																																				
Material	Material: 303SS, 316SS																																																			
Description	Deliver even oil spray from 5 orifices, so that the oil can burn up evenly too.																																																			
Application	Applied to oil spraying.					Spray pattern																																														
Technical data																																																				
Thread	Code	Orifice(mm)	Free passage (mm)	Flow rate (l/min) / pressure (MPa)																																																
				0.07	0.15	0.3	0.7	2.5																																												
Rc 1/4"	07	2.4	2.4	2.6	3.9	5.5	8.4	16																																												
	13	3.2	3.2	4.9	7.3	10.3	15.7	30																																												
Rc 3/8"	07	2.4	2.4	2.6	3.9	5.5	8.4	16																																												
	20	4.0	3.2	7.6	11.2	15.8	24	46																																												
	40	5.6	3.2	15.1	22	32	48	91																																												
Rc 1/2"	120	9.5	4.8	45	67	95	145	270																																												
	164	11.1	4.8	62	92	129	198	370																																												
Rc 3/4"	210	12.7	4.8	80	117	166	255	480																																												
Rc 1"	340	15.9	6.4	130	190	270	410	775																																												
	470	19.1	6.4	179	260	370	565	1070																																												
Rc 1-1/2"	820	25.4	7.9	310	455	645	990	1870																																												
Rc 2"	1400	34.9	11.1	535	780	1105	1690	3190																																												
	1780	38.1	11.1	680	995	1405	2150	4060																																												
Rc 3"	3360	50.8	14.3	1280	1880	2605	4050	7660																																												