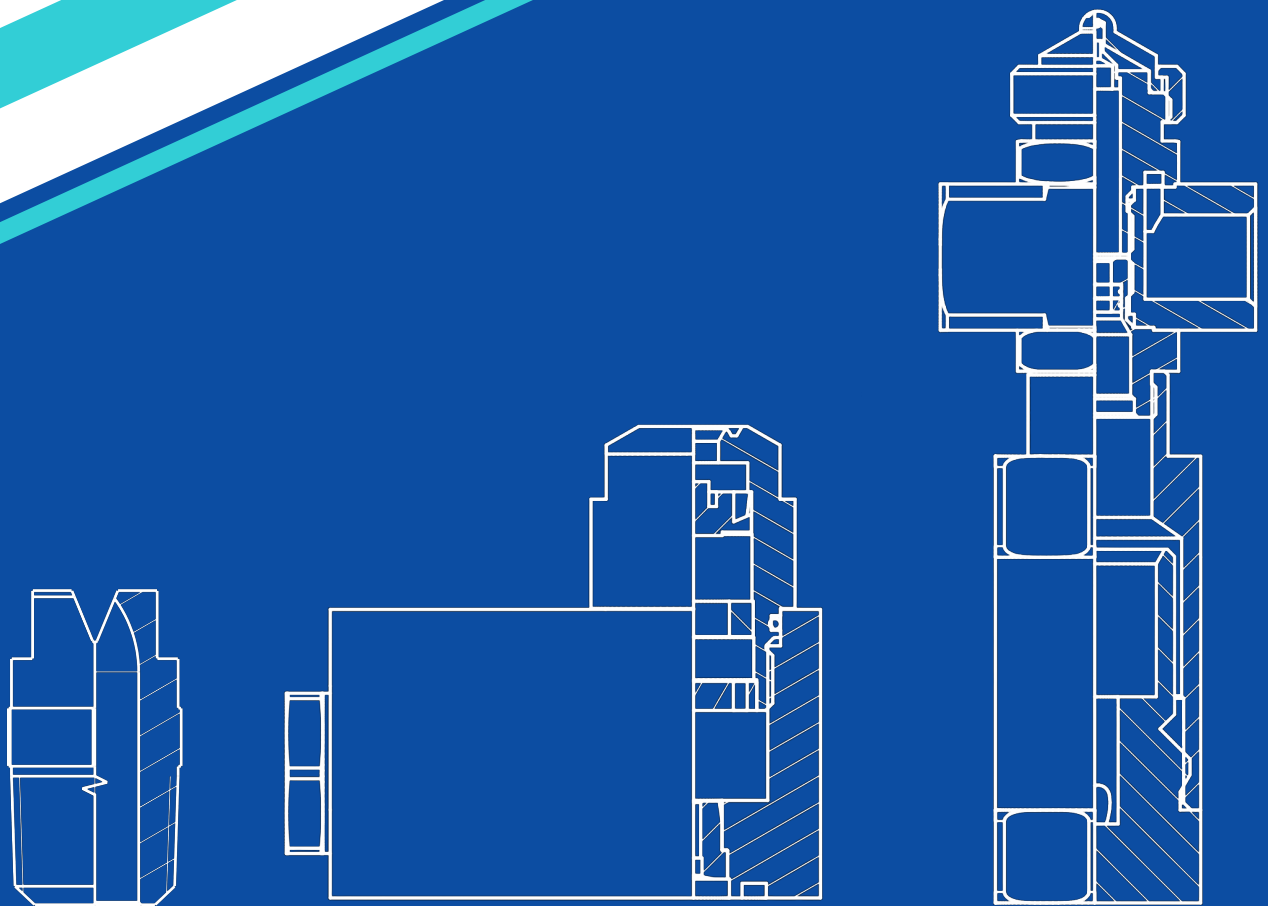


SPAD FLOW

Spraying Systems and Nozzles



PRESICION SPRAY NOZZLES

Industrial Spray Solution | 2025 Edition



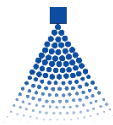
List of Contents

Industrial Spray Nozzles and Accessories



Information

Pages 2 – 6



1. Air Assist Nozzles

Pages 7 – 19



2. Hollow Cone Nozzles

Pages 20 – 29



3. Full Cone Nozzles

Pages 30 – 46



4. Spiral Nozzles

Pages 47 – 51



5. Flat Fan Nozzles

Pages 52 – 82



6. Deflector Nozzles

Pages 83 – 89



7. Air Blowing Nozzles

Pages 90 – 92



8. Special Nozzles

Coming Soon



9. Accessories

Coming Soon

◆ ABOUT US

We Are Here to Help

• Welcome to SPADFLOW

facing the **Challenges** of new industries and emerging markets.

• Spray Technologies

with over **Thousands of Spray Nozzle Types** SPADFLOW has become Iran's leading producer.

• From Design to Installation

with **Skilled** engineers and project managers, SPADFLOW is providing consultancy and support services.

• Knowledge and Experience

as an **Expert** on spray technology, SPADFLOW is at the forefront of production and innovation.





Design



Simulation



Production

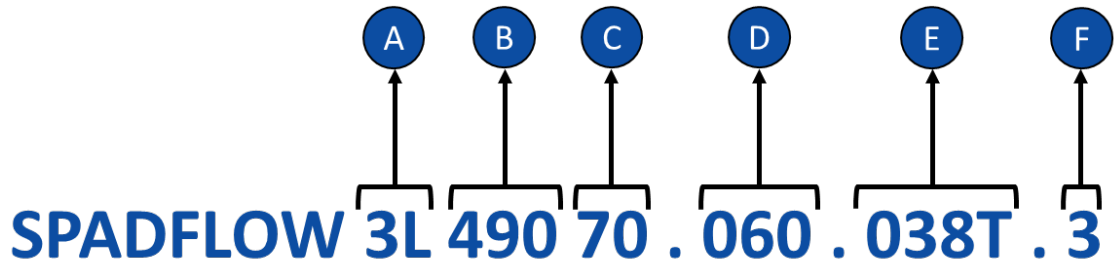


Installation



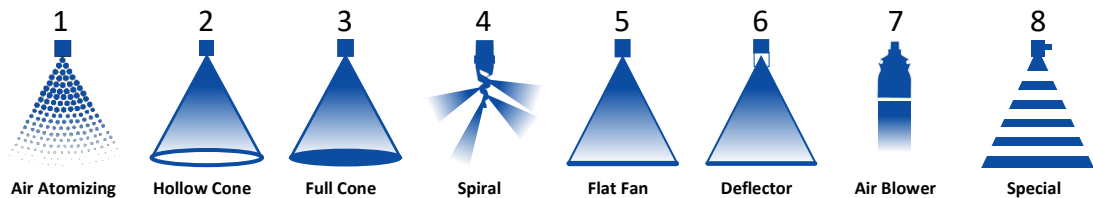
PRODUCT NUMBERS

Everything You Need to Know



A

Nozzle Type (Spray Pattern)



B

Nozzle Series

C

Flow Rate Rank

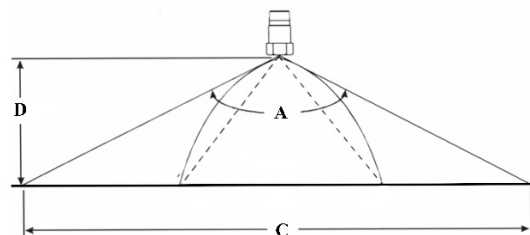
The flow rate rank is relative and depends on the respective nozzle type. The exact value is mentioned in tables on the product pages.

D

Spray Angle

Theoretical spray angle is mentioned in tables on the product pages. Actual spray angle depends on installation and alignment.

- A = Theoretical Spray Angle
- D = Spray Distance
- C = theoretical Spray Coverage



PRODUCT NUMBERS

Everything You Need to Know

E

Connection

1/8" to 4" connections. The exact specification is mentioned in tables on the product pages.

T = BSBT Thread Type Connection

P = BSPP Thread Type Connection

N = NPT Thread Type Connection

R = Retaining Nut

F

Material

Material	Code	Material	Code
Brass	1	Polyvinylchloride	PVC
AISI 304/304L Stainless Steel	2	Polypropylene	PP
AISI 316/316L Stainless Steel	3	Polyamide	PA
AISI 310 Stainless Steel	4	Polyvinylidene fluoride	PVDF
AISI 321 Stainless Steel	5	Polytetrafluorethylene	PTFE
AISI 420 Stainless Steel	6	Polyoxymethylene	POM
Tungsten Carbide	TN	Nitrile Butadiene Rubber	NBR
Phosphor Bronze	CuSn	Poly lactic Acid	PLA
Copper	Cu	Acrylonitrile Butadiene Styrene	ABS
Titanium	TI	Nylon Polyamide	PA6
Aluminum	AL	Polycarbonate	PC

Ø B (Equivalent Bore Diameter)

Applies to elliptical discharge holes of flat fan nozzles. A cylindrical hole with a diameter A has the same surface area as the ellipse.

Ø E (Narrowest Free Cross Section)

Important Characteristics for determining the pre-filtration of a nozzle. Can be less than a due to several swirl ducts.

Conversion Formula: $K \text{ factor} \times \sqrt{P(\text{bar})} = Q \text{ (l/min)}$

All flow rate data in this catalogue is based on measurements with water,

Spray angle (α)	Code	Connection Size [inch]	Ø B [mm]	Ø E [mm]	Flow rate (Q) [l/min]						
					Pressure (P) [bar]						
					0.5	1.0	2.0	3.0	5.0	7.0	10.0
45°	3L 490 40 . 045	1/8"	1.25	1.25	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 60 . 045	1/4"	2.00	2.00	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 490 70 . 045	3/8"	2.65	2.65	3.22	4.24	5.60	6.59	8.08	9.24	10.66
	3L 490 78 . 045	1/2"	3.45	3.45	5.17	6.82	9.00	10.58	12.98	14.85	17.12
60°	3L 490 40 . 060	1/8"	1.15	1.15	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 80 . 060	3/8"	3.70	3.70	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 490 88 . 060	1/2"	4.65	4.65	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 490 96 . 060	3/4"	5.80	5.80	14.36	18.95	25.00	29.40	36.07	41.26	47.59
	3L 491 08 . 060	1"	8.15	8.15	28.72	37.89	50.00	58.80	72.14	82.53	95.18

SPADFLOW spray nozzles are manufactured with the highest precision and undergo permanent quality checks. However, production-related tolerances can affect the spray angle, flow rate, droplet size and droplet distribution.

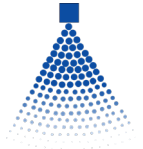
CHAPTER 1


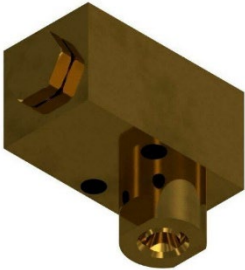


◆◆ Air-Assisted Nozzles



Air Assist Nozzles

Selection Guide






Nozzle Series	Flow Capacity	Spray Pattern	Spray Angle	Application	Page
 <p>1PM 074</p>	Standard Flow	Oval Cone	Standard Spray Angle 90° x 45°	Cooling Coating Chemical Injection Continuous Casting Machine (Billet, Bloom, Slab)	11
 <p>1PM 137</p>	Standard Flow	Cone-Shape	Standard Spray Angle 80°	Cooling Coating Chemical Injection Continuous Casting Machine	12
 <p>1PM 138</p>	Low Flow Up to 1 liter per Minute	Hollow Cone	Standard Spray Angle 90° - 100°	Cooling Coating Chemical Injection Continuous Casting Machine (Billet, Bloom)	13
 <p>1PM 148</p>	Standard Flow Up to 30 liters per Minute	Flat Fan	Standard Spray Angle 140°	Cooling Coating Chemical Injection Continuous Casting Machine (Billet, Bloom, Slab)	14

Air Assist Nozzles

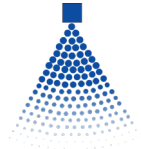
Selection Guide





Nozzle Series	Flow Capacity	Spray Pattern	Spray Angle	Application	Page
 <p>1PM 150</p>	Standard Flow	Cone-Shape	Narrow Spray Angle 60	Cooling Coating Chemical Injection Continuous Casting	15
 <p>1MA 150</p>	low Flow	Cone-Shape	Spray Angle 40	Cooling Coating Chemical Injection Pharmaceutical industry Food Industry	16
 <p>1HA 150</p>	Low Flow	Cone-Shape	Standard Spray Angle 55	Cooling Coating Chemical Injection Pharmaceutical industry Food Industry	17

Air Assist Nozzles

Selection Guide



Nozzle Series	Flow Capacity	Spray Pattern	Spray Angle	Application	Page
 <p>1HB 200</p>	Standard Flow	Cone-Shape	Narrow Spray Angle 15°	Cooling Coating Chemical Injection Pharmaceutical industry	18
 <p>1HC 150</p>	Low Flow	Cone-Shape	Standard Spray Angle 50°	Cooling Coating Chemical Injection Pharmaceutical industry	19

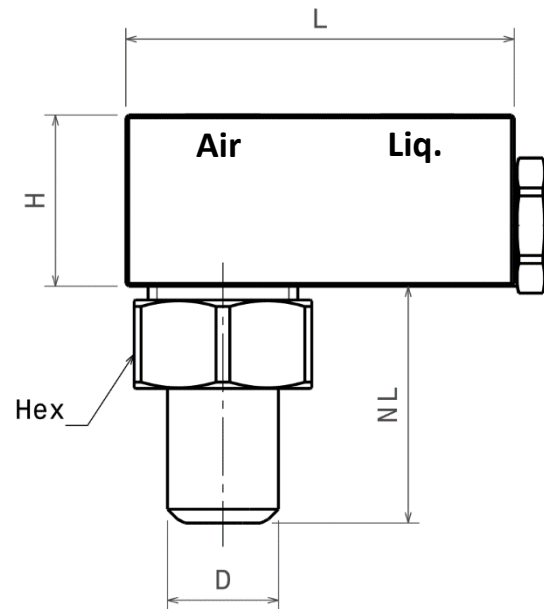
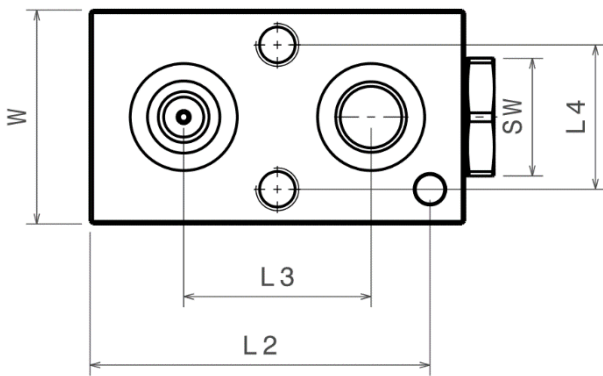
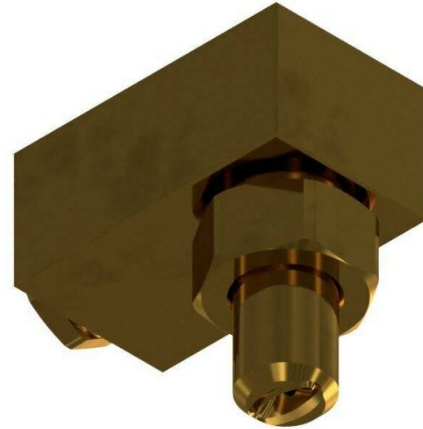
SPADFLOW 1PM 074

Air Assist Oval Spray Nozzle



Properties:

- Fine Atomization at Low Liquid Pressures
- Multiple Parts
- Internal Mixing
- Low Air Consumption
- High Heat Transfer Coefficient (HTC)
- Reduced Maintenance Cost
- Stable Spray Angle



Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	Dimensions [mm]									
	H	W	L	L2	L3	L4	Hex	NL	D	SW
Pneumatic Air Fitting	31	40	70	63.5	35	27	32	31	18	22

Nozzle Code	Flow rate		Spray Angle*
	Air = 2 bar Liq. = 0.5 bar	Air = 2 bar Liq. = 2 bar	
1PM . 074 . 30 . 06. 00 . 1	0.25 l/min	1.20 l/min	90° x 45°

* Spray Angle May Vary Depending on Air and Liquid Pressures.



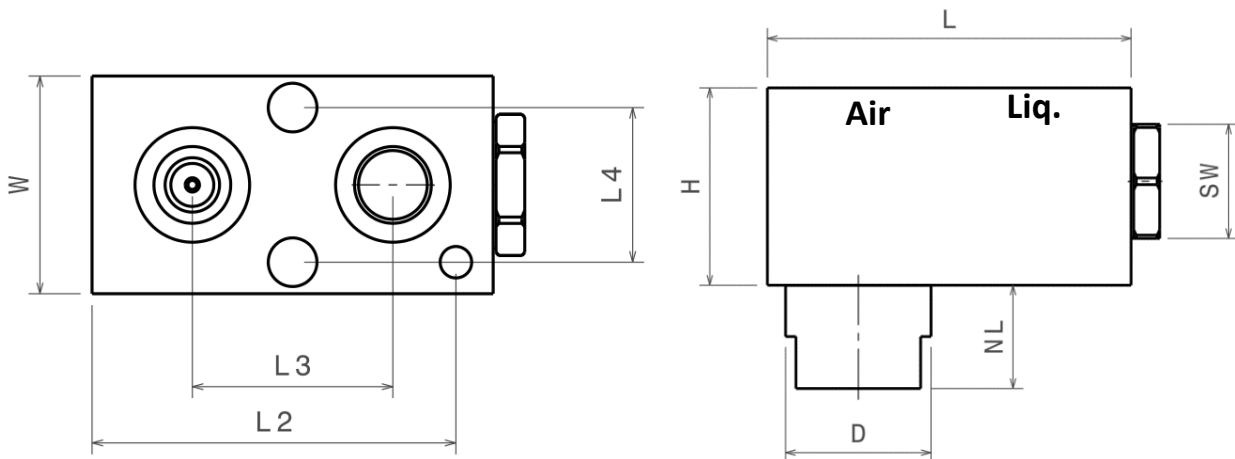
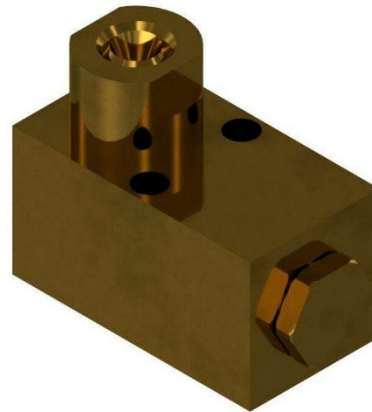
SPADFLOW 1PM 137

Billetcooler Cone Spray Nozzle



Properties:

- Fine Atomization at Low Liquid Pressures
- Internal Mixing
- Multiple Parts
- Reduced Air Consumption
- High Heat Transfer Coefficient (HTC)
- Large Free Passage – Anti Clogging



Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	Dimensions [mm]								
	H	W	L	L2	L3	L4	SW	NL	D
Pneumatic Air Fitting	40	40	70	63.5	35	27	22	20	28

Nozzle Code	Operating Liquid Pressure	Operating Air Pressure	Flow rate	Spray Angle*
			Air = 2 bar Liq. = 2 bar	
1PM . 137 . 30 . 82 . 00 . 3	0.5 -7.0 bar	1.0 – 4.0 bar	1.8 l/min	80°

* Spray Angle May Vary Depending on Air and Liquid Pressures.



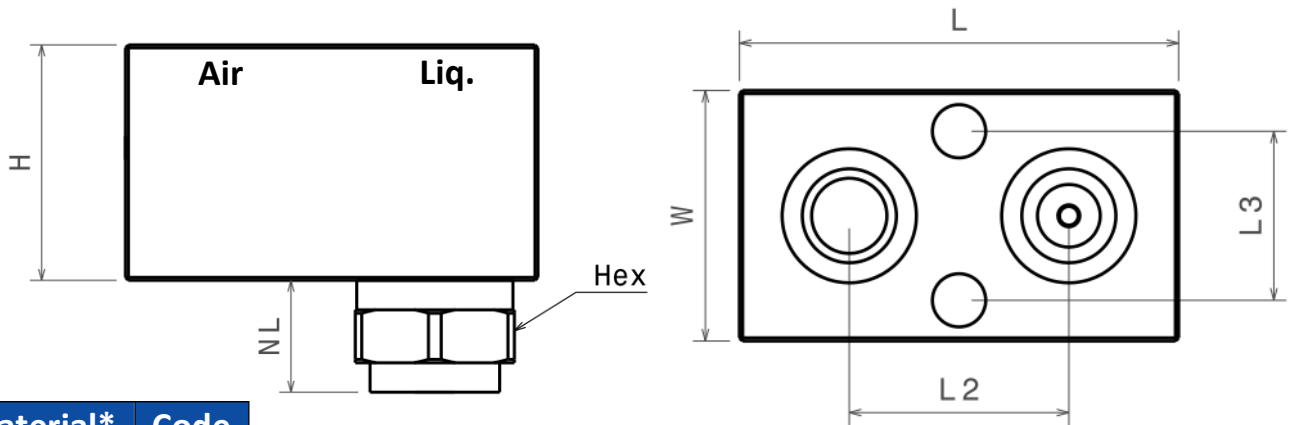
SPADFLOW 1PM 138

Billetcooler Hollow-Cone Spray Nozzle



Properties:

- Atomization at Low Liquid Pressures
- Internal Mixing
- Multiple Parts
- Reduced Air Consumption
- High Heat Transfer Coefficient (HTC)
- Large Free Passage – Anti Clogging
- Reduced Maintenance Cost



Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	Dimensions [mm]							
	H	W	L	L2	L3	Hex	NL	D
Pneumatic Air Fitting	38	38	70	35	27	28	20	28

Nozzle Code	Operating Liquid Pressure	Operating Air Pressure	Flow rate	Spray Angle*
			Air = 2 bar Liq. = 2 bar	
1PM . 138 . 562 . 30 . 39	0.5 -7.0 bar	1.0 – 4.0 bar	2 l/min	90°
1PM .138 . 370 . 100 . 1	0.5 -7.0 bar	1.0 – 4.0 bar	3.7 l/min	100

* Spray Angle May Vary Depending on Air and Liquid Pressures.



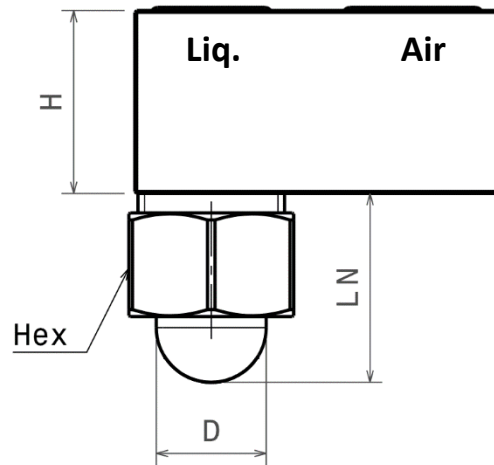
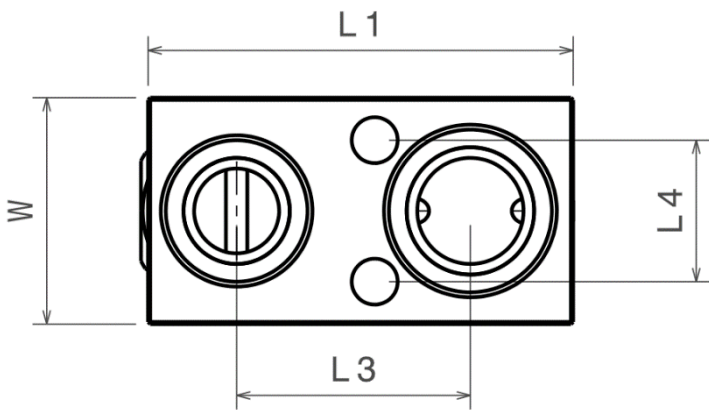
SPADFLOW 1PM 148

Billetcooler Flat-Fan Spray Nozzle



Properties:

- Atomization at Low Liquid Pressures
- Internal Mixing
- Multiple Parts
- Reduced Air Consumption
- High Heat Transfer Coefficient (HTC)
- Reduced Maintenance Cost



Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	Dimensions [mm]							
	H	W	L	L3	L4	Hex	NL	D
Pneumatic Air Fitting	30	32	60	33	20	27	31	18

Nozzle Code	Operating Liquid Pressure	Operating Air Pressure	Flow rate	Spray Angle*
			Air = 2 bar Liq. = 2 bar	
1PM . 148 . 528 . 30 .44	0.5 -7.0 bar	1.0 – 4.0 bar	2 l/min	140°

* Spray Angle May Vary Depending on Air and Liquid Pressures.



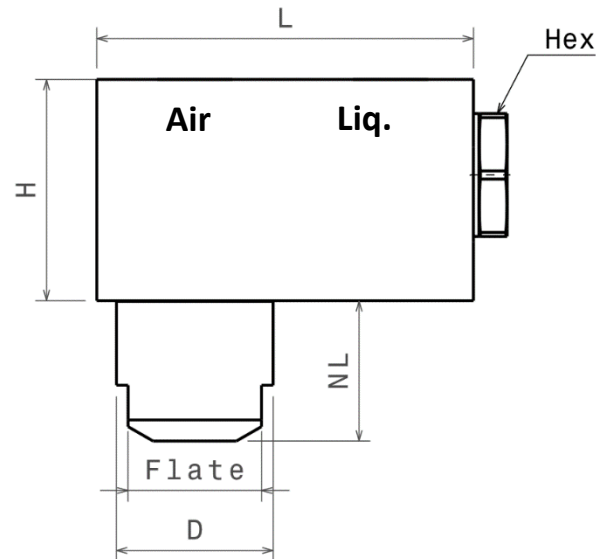
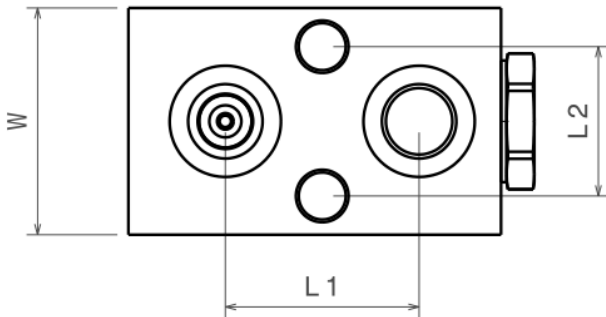
SPADFLOW 1PM 150

Billetcooler Cone Spray Nozzle



Properties:

- Atomization at Low Liquid Pressures
- Internal Mixing
- Multiple Parts
- Reduced Air Consumption
- High Heat Transfer Coefficient (HTC)
- Large Free Passage – Anti Clogging
- Reduced Maintenance Cost



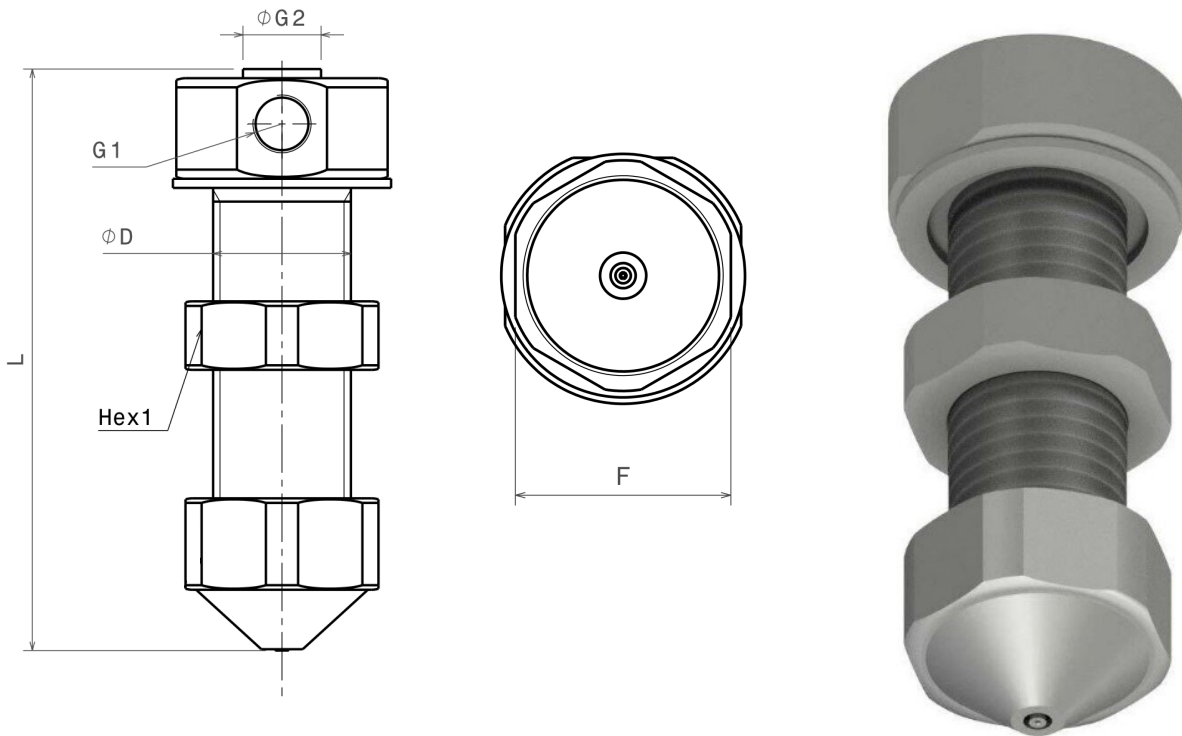
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	Dimensions [mm]								
	H	W	L	L1	L2	Hex	Flats	NL	D
Pneumatic Air Fitting	40	40	67	35	27	22	24	25	28

Nozzle Code	Operating Liquid Pressure	Operating Air Pressure	Flow rate	Spray Angle*
			Air = 2 bar Liq. = 2 bar	
1PM . 150 . 30 . 05	0.5 -7.0 bar	1.0 – 4.0 bar	2.1 l/min	60°
1PM . 150 . 30 . 08	0.5 -7.0 bar	1.0 – 4.0 bar	3.2 l/min	60°

* Spray Angle May Vary Depending on Air and Liquid Pressures.



Properties:

- Homogeneous Spray Distribution
- Very Fine Atomization at Low Liquid Pressures
- External Mixing
- Multiple parts
- Reduced air consumption

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	G2	Dimensions [mm]			
		L	D	F	Hex1
1/4"	1/4"	127	M30	42	42

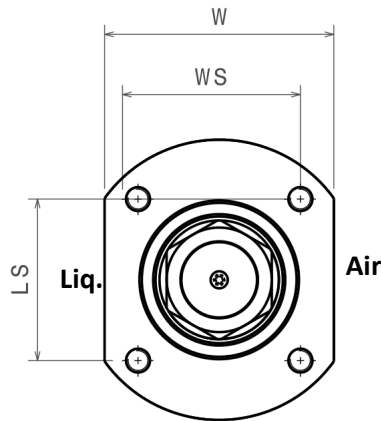
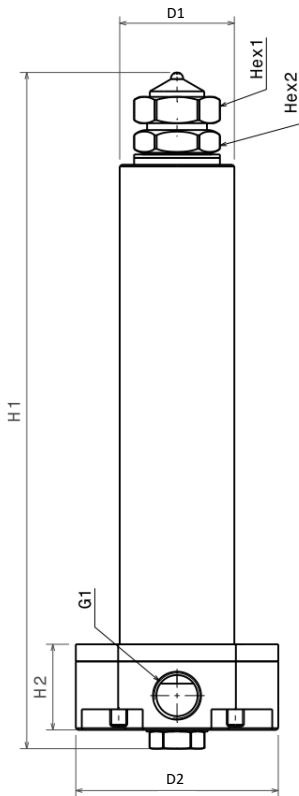
Nozzle Code	Flow rate		Spray Angle*
	Air = 1.5 bar Liq. = 1.5 bar	Air = 3 bar Liq. = 3 bar	
1MA . 060 . 040 . 3	0.15 l/min	0.18 l/min	40°

* Spray Angle May Vary Depending on Air and Liquid Pressures.



SPADFLOW 1HA 150

Low Flow Twin-Fluid Spray Nozzle



Properties:

- Homogeneous Spray Distribution
- Very Fine Atomization at Low Liquid Pressures
- Multiple parts
- Reduced air consumption
- Internal Mixing

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	Dimensions [mm]										
	H1	H2	D1	D2	Hex1	Hex2	NL	W	WS	LS	D
1/4"	198	25	60	27	20	20	27	48	34	34	28

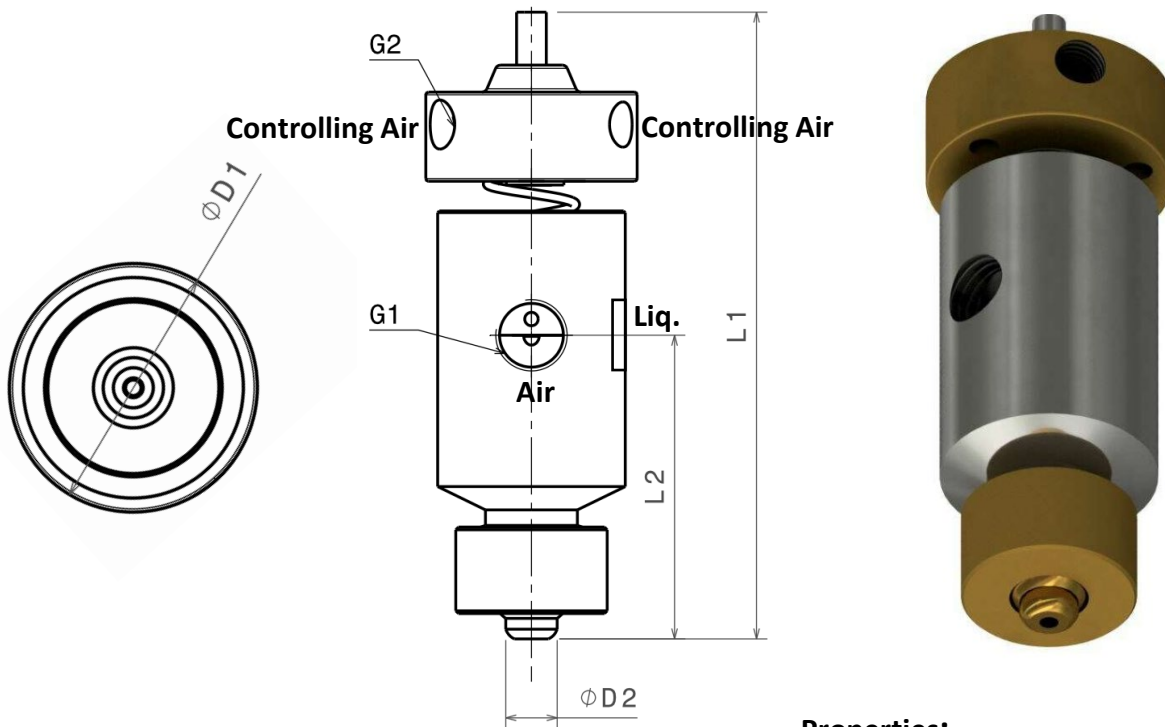
Nozzle Code	Flow rate		Spray Angle*
	Air = 1.5 bar Liq. = 1.5 bar	Air = 3 bar Liq. = 3 bar	
1HA . 150 . 050 . 3	0.15 l/min	0.18 l/min	55°

* Spray Angle May Vary Depending on Air and Liquid Pressures.



SPADFLOW 1HB 200

Controlling Twin-Fluid Spray Nozzle



Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	G2	Dimensions [mm]			
		L1	L2	D1	D2
3/8"	1/4"	116	56.2	39.1	9.5

Nozzle Code	Flow rate		Spray Angle*
	Air = 3.2 bar Liq. = 3 bar	Air = 4 bar Liq. = 3 bar	
1HB . 200 . 015 . 3	1.3 l/min	1.23 l/min	15°

* Spray Angle May Vary Depending on Air and Liquid Pressures.

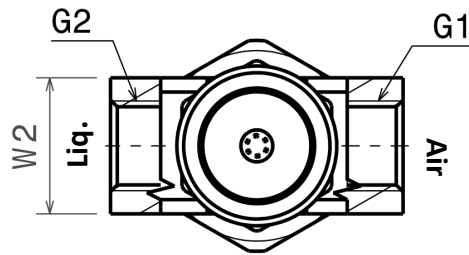
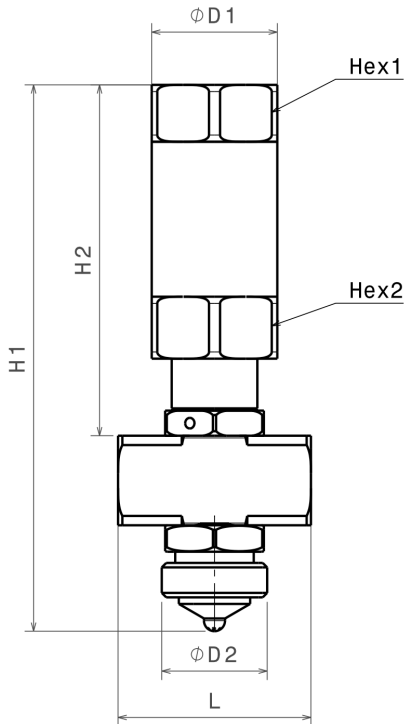
Properties:

- Very Fine Atomization at Low Liquid Pressures
- Internal Mixing
- Multiple Parts
- Reduced Air Consumption
- Auto Shut-Off Feature
- Flow Adjustment
- All-round Swiveling by 25 degrees
- Easy Adjustment



SPADFLOW 1HC 150

Set-Ups Spray Atomizer Nozzle



Properties:

- Very Fine Atomization at Low Liquid Pressures
- Internal Mixing
- Multiple Parts
- Reduced Air Consumption

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different Materials are Available Upon Request.

G1	G2	Dimensions [mm]							
		H1	H2	D1	D2	Hex1	Hex2	L	W2
1/4"	1/4"	122	78.34	28	23.5	28	28	43	20

Nozzle Code	Flow rate		Spray Angle*
	Air = 1.8 bar Liq. = 1.5 bar	Air = 3.5 bar Liq. = 3 bar	
1HA . 150 . 050 . 3	0.15 l/min	0.18 l/min	50°

* Spray Angle May Vary Depending on Air and Liquid Pressures.

CHAPTER 2






◆◆ Hollow Cone Nozzles



Hollow Cone Nozzles

Selection Guide





Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 2B PJ	Low Flow Up to 6 liters per Minute	High Pressure Up to 70 bar	Standard Spray Angle 90°	Cooling air at gas turbine inlets Coating Scrubbing Quenching Odor Control Misting Humidification Concrete Curing Chemical Process	23
 2L 226	Low Flow Up to 2 liters per Minute	High Pressure Up to 100 bar	Standard Spray Angle 60°-80°	Disinfection Humidification Cooling Chemical Process Adiabatic Cooling	24
 2L 214	Low Flow Up to 1 liter per Minute	Standard Pressure Up to 20 bar	Standard Spray Angle 60°-80°	Cooling and cleaning Dust Control Spray onto Filters Spray Drying Desuperheating Sprinkling	25
 2L 216	Standard Flow Up to 30 liters per Minute	Standard Pressure Up to 20 bar	Standard Spray Angle 90°	Cooling Gas Cleaning Air Dust Control Spray onto Filters Spray Drying Desuperheating Sprinkling	25
 2B NCJ	High Flow Up to 5000 liters per Minute	Low Pressure Up to 7 bar	Narrow Spray Angle 15° - 20° - 30°	Venturi Scrubbing	26 - 27

Hollow Cone Nozzles

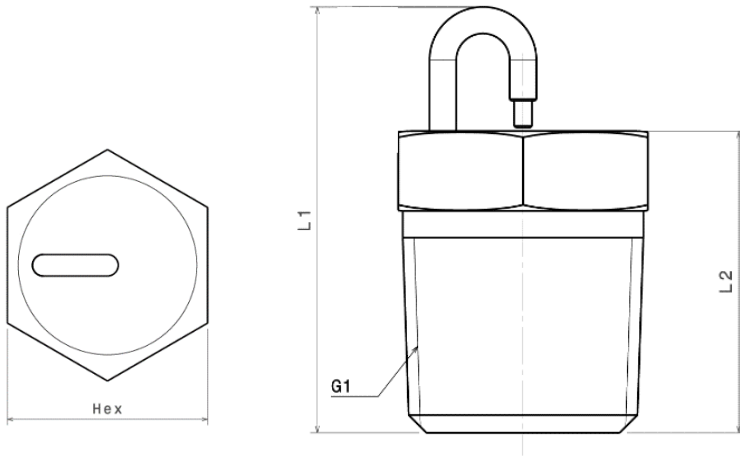
Selection Guide



Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 <p>2SF 422</p>	<p>Standard Flow Up to 50 liters per Minute</p>	<p>Standard Pressure Up to 10 bar</p>	<p>Wide Spray Angle 60° - 90° - 120°</p>	<p>Cleaning & Washing Process Cooling Gaseous Fluids and Solids Surface Spraying Spraying onto Mats in Air Washers Improving on Chemical Reactions Continuous Casting Foam Control</p>	<p>28 - 29</p>
 <p>2SF 423</p>	<p>High Flow Up to 250 liters per Minute</p>	<p>Standard Pressure Up to 10 bar</p>	<p>Wide Spray Angle 120°</p>	<p>Cleaning & Washing Process Cooling Gaseous Fluids and Solids Surface Spraying Spraying onto Mats in Air Washers Improving on Chemical Reactions Continuous Casting Foam Control</p>	<p>28 - 29</p>

SPADFLOW 2B PJ

Misting Hollow-Cone Nozzle

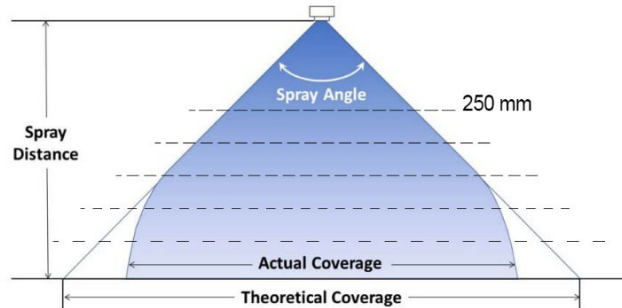


G1	Thread Type			Dimensions [mm]			Weight
	BSPT	BSPP	NPT	L1	L2	Hex	
1/8"	018T	018P	018N	19.1	12.1	12	7 gr
1/4"	014T	014P	014N	24.6	17.6	16	7 gr

Material*	Code
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
90°	500 mm



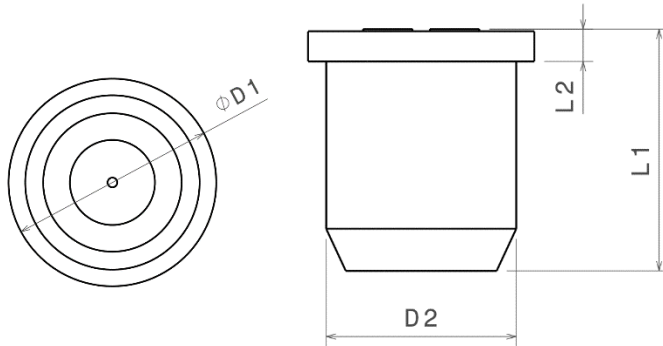
Spray angle (α)	Code	$\varnothing B$ [mm]	$\varnothing E$ [mm]	Flow rate [l/min]							
				P [bar]							
				2.0	3.0	5.0	10.0	20.0	30.0	50.0	70.0
90°	2B PJ 06 . 090	0.152	0.152	-	-	0.031	0.043	0.061	0.075	0.097	0.114
	2B PJ 08 . 090	0.203	0.203	-	-	0.058	0.082	0.116	0.142	0.183	0.217
	2B PJ 10 . 090	0.254	0.254	-	0.067	0.087	0.123	0.173	0.212	0.274	0.324
	2B PJ 12 . 090	0.305	0.305	-	0.091	0.117	0.166	0.234	0.287	0.371	0.439
	2B PJ 15 . 090	0.381	0.381	0.12	0.146	0.189	0.267	0.377	0.462	0.596	0.705
	2B PJ 20 . 090	0.508	0.508	0.22	0.264	0.341	0.483	0.683	0.836	1.08	1.28
	2B PJ 24 . 090	0.610	0.610	0.32	0.395	0.51	0.721	1.02	1.25	1.61	1.91
	2B PJ 28 . 090	0.711	0.711	0.42	0.513	0.662	0.937	1.32	1.62	2.09	2.48
	2B PJ 32 . 090	0.813	0.813	0.58	0.71	0.917	1.297	1.83	2.25	2.9	3.43
2B PJ 40 . 090	1.02	1.02	0.90	1.11	1.43	2.02	2.85	3.49	4.51	5.34	



SPADFLOW 2L 226

Low Flow Hollow-Cone Nozzle

Webpage
+ STP



Properties:

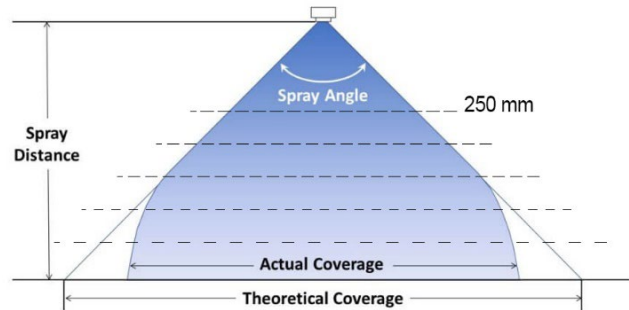
- Two-Piece Construction
- Internal Vane
- Nozzle for Retaining Nut
- Extremely Fine

G1	Dimensions [mm]				Weight
	L1	L2	D1	D2	
Retaining Nut	18.0	2.0	14.8	12.65	13 gr

Material*	Code
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
60°	120-160 mm
80°	190-300 mm



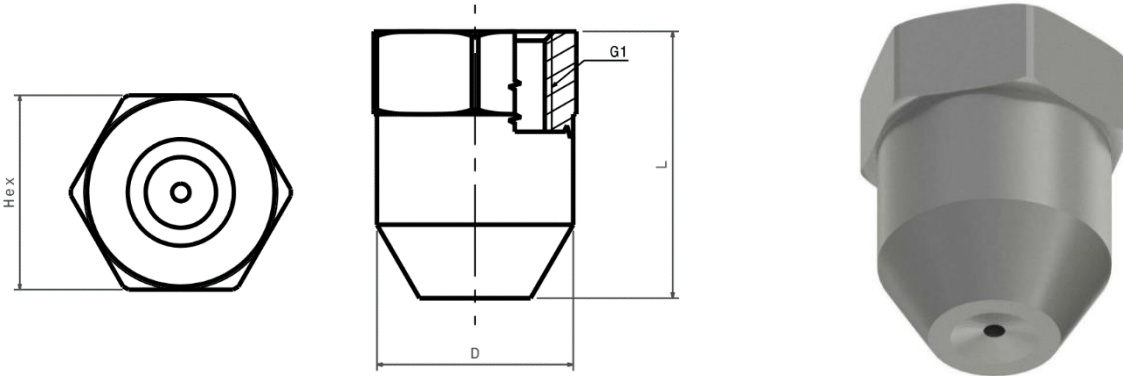
Spray angle (α)	Code	B \varnothing [mm]	E \varnothing [mm]	Mesh size [mm] Strainer	Flow rate [l/min]							
					P [bar]							
					2.0	3.0	5.0	7.0	10.0	20.0	50.0	100.0
60°	2L 226 00 . 060	0.10	0.10	0.04	-	-	0.013	0.015	0.018	0.026	0.041	0.058
	2L 226 01 . 060	0.15	0.15	0.04	-	0.015	0.019	0.022	0.027	0.038	0.060	0.085
	2L 226 05 . 060	0.20	0.15	0.04	0.017	0.021	0.027	0.032	0.038	0.054	0.085	0.121
80°	2L 226 08 . 080	0.25	0.25	0.10	0.025	0.031	0.040	0.047	0.057	0.080	0.126	0.179
	2L 226 12 . 080	0.35	0.35	0.10	0.039	0.048	0.062	0.073	0.088	0.124	0.196	0.277
	2L 226 14 . 080	0.40	0.40	0.10	0.052	0.064	0.082	0.097	0.116	0.164	0.259	0.367
	2L 226 16 . 080	0.45	0.45	0.10	0.065	0.080	0.103	0.122	0.146	0.206	0.326	0.461
	2L 226 18 . 080	0.55	0.35	0.20	0.082	0.101	0.130	0.154	0.184	0.260	0.411	0.581
	2L 226 20 . 080	0.60	0.35	0.20	0.106	0.130	0.168	0.199	0.238	0.336	0.531	0.751
	2L 226 24 . 080	0.70	0.50	0.20	0.165	0.202	0.261	0.309	0.369	0.522	0.825	1.167
	2L 226 28 . 080	0.90	0.55	0.20	0.247	0.302	0.390	0.461	0.552	0.780	1.233	1.744



SPADFLOW 2L 214/216

Axial Hollow-Cone Nozzle

Webpage
+ STP



G1	Thread Type			Dimensions [mm]			Weight
	BSPT	BSPP	NPT	L	D	Hex	
1/8"	018T	018P	018N	18.0	16.0	17	27 gr
3/8"	038T	038P	038N	29.0	21.3	22	60 gr

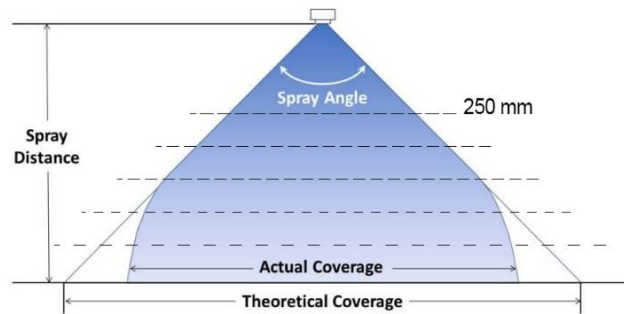
Properties:

- Two-Piece Construction
- Internal Vane
- Uniform Spray
- Extremely Fine Atomization

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
60°	200 mm
80°	450 mm
90°	500 mm

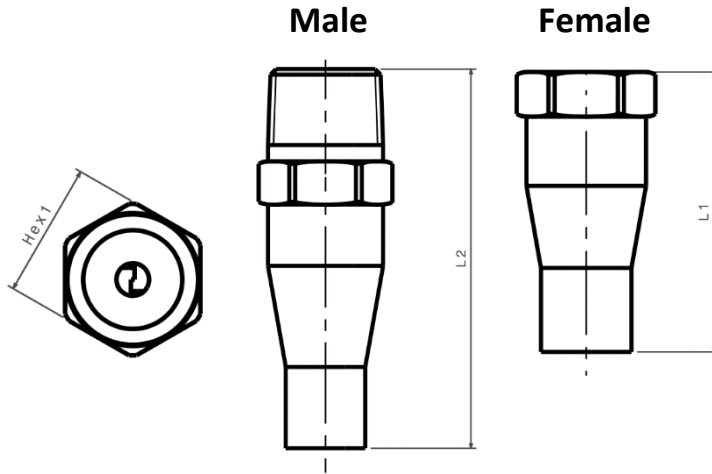


Spray angle α	Code	Connection [inch]	\varnothing B [mm]	\varnothing E [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0 K factor	2.0	3.0	5.0	10.0	20.0
60°	2L 214 18 . 060	1/8"	0.50	0.50	-	-	0.08	0.10	0.13	0.18	0.25
	2L 216 32 . 060	3/8"	1.00	1.00	-	0.28	0.40	0.49	0.63	0.89	1.26
	2L 216 36 . 060	3/8"	1.40	1.40	-	0.45	0.63	0.77	1.00	1.41	1.99
80°	2L 216 40 . 060	3/8"	2.00	2.00	-	0.71	1.00	1.22	1.58	2.24	3.16
	2L 214 24 . 080	1/8"	1.00	0.50	-	-	0.16	0.20	0.25	0.36	0.51
	2L 214 30 . 080	1/8"	1.80	0.50	-	0.23	0.32	0.39	0.51	0.72	1.01
90°	2L 216 49 . 090	3/8"	6.00	2.00	-	1.20	1.70	2.08	2.69	3.80	5.38
	2L 216 56 . 090	3/8"	4.00	2.00	-	1.77	2.50	3.06	3.95	5.59	7.91
	2L 216 64 . 090	3/8"	3.50	2.00	2.00	2.83	4.00	4.90	6.32	8.94	12.65
	2L 216 68 . 090	3/8"	4.00	2.00	2.50	3.54	5.00	6.12	7.91	11.18	15.81
	2L 216 72 . 090	3/8"	5.00	2.00	3.15	4.45	6.30	7.72	9.96	14.09	19.92
	2L 216 77 . 090	3/8"	6.00	2.00	4.30	6.00	8.50	10.40	13.40	19.00	26.90

SPADFLOW 2B NCJ

High Flow Hollow-Cone Nozzle

Webpage
+ STP



G1	Thread Type			Dimensions [mm]			Weight
	BSPT	BSPP	NPT	L ₁	Hex1	L ₂	
3/4"	034T	034P	034N	82.6	28.4	82.6	340 gr
1"	100T	100P	100N	88.9	35.1	88.9	450 gr
1 1/4"	114T	114P	114N	102	44.5	102	570 gr
1 1/2"	112T	112P	112N	127	50.8	127	1020 gr
2"	200T	200P	200N	152	63.5	152	1130 gr
2 1/2"	212T	212P	212N	194	76.2	178	2610 gr
3"	300T	300P	300N	203	88.9	203	2840 gr
4"	400T	400P	400N	278	114	251	6800 gr
6"	600T	600P	600N	381	168	343	15900 gr

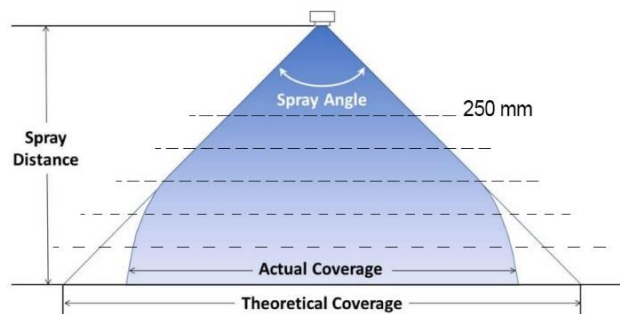
Properties:

- Two-Piece Construction
- Internal Vane
- Coarse Spray
- Flanged Connection is Available
- High Velocity

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
15°	60 mm
20°	90 mm
30°	130 mm





SPADFLOW 2B NCJ

High Flow Hollow-Cone Nozzle

Webpage
+ STP



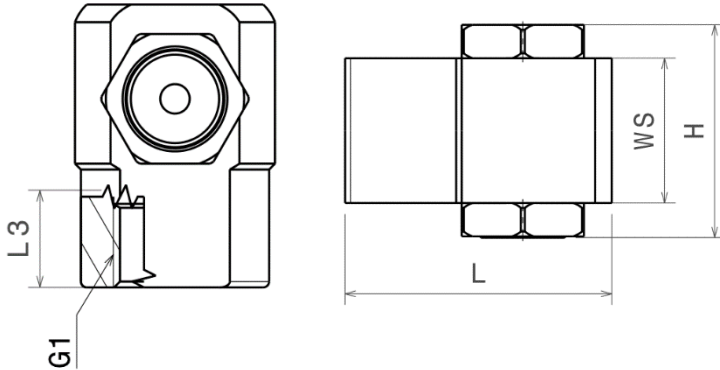
Spray angle α	Code	Connection [inch]	B \varnothing [mm]	Flow rate [l/min]							
				P [bar]							
				0.5	0.7	1.0 <i>K</i> factor	1.5	2.0	3.0	5.0	7.0
15°	2B NCJ 06 . 015	3/4"	7.52	23.1	27.0	32.0	38.7	44.3	53.6	68.1	79.8
	2B NCJ 12 . 015	1"	10.3	46.2	54.1	64.0	77.4	88.6	107	136	160
	2B NCJ 18 . 015	1 1/4"	12.3	69.3	81.1	95.9	116	133	161	204	239
	2B NCJ 26 . 015	1 1/2"	15.1	100	117	139	168	192	232	295	346
	2B NCJ 48 . 015	2"	20.2	185	216	256	310	354	429	545	638
	2B NCJ 72 . 015	2 1/2"	24.6	277	325	384	464	532	643	818	958
	2B NCJ 05 . 015	3"	29.5	404	473	560	677	775	938	1190	1400
	2B NCJ 90 . 015	4"	40.5	731	856	1010	1230	1400	1700	2160	2530
2B NCJ 50 . 015	6"	54.0	1380	1580	1860	2260	2580	3130	3980	4660	
20°	2B NCJ 06 . 020	3/4"	7.52	23.1	27.0	32.0	38.7	44.3	53.6	68.1	79.8
	2B NCJ 12 . 020	1"	10.3	46.2	54.1	64.0	77.4	88.6	107	136	160
	2B NCJ 18 . 020	1 1/4"	12.3	69.3	81.1	95.9	116	133	161	204	239
	2B NCJ 26 . 020	1 1/2"	15.1	100	117	139	168	192	232	295	346
	2B NCJ 48 . 020	2"	20.2	185	216	256	310	354	429	545	638
	2B NCJ 72 . 020	2 1/2"	24.6	277	325	384	464	532	643	818	958
	2B NCJ 05 . 020	3"	29.5	404	473	560	677	775	938	1190	1400
	2B NCJ 90 . 020	4"	40.5	731	856	1010	1230	1400	1700	2160	2530
2B NCJ 50 . 020	6"	54.0	1380	1580	1860	2260	2580	3130	3980	4660	
30°	2B NCJ 06 . 030	3/4"	7.52	23.1	27.0	32.0	38.7	44.3	53.6	68.1	79.8
	2B NCJ 12 . 030	1"	10.3	46.2	54.1	64.0	77.4	88.6	107	136	160
	2B NCJ 18 . 030	1 1/4"	12.3	69.3	81.1	95.9	116	133	161	204	239
	2B NCJ 26 . 030	1 1/2"	15.1	100	117	139	168	192	232	295	346
	2B NCJ 48 . 030	2"	20.2	185	216	256	310	354	429	545	638
	2B NCJ 72 . 030	2 1/2"	24.6	277	325	384	464	532	643	818	958
	2B NCJ 05 . 030	3"	29.5	404	473	560	677	775	938	1190	1400
	2B NCJ 90 . 030	4"	40.5	731	856	1010	1230	1400	1700	2160	2530
2B NCJ 50 . 030	6"	54.0	1380	1580	1860	2260	2580	3130	3980	4660	



SPADFLOW 2SF 422/423

Tangential Hollow-Cone Nozzle

Webpage
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G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L	L3	H	WS	
1/4"	014T	014P	014N	24.0	9.7	22.0	15.0	44 gr
3/8"	038T	038P	038N	34.0	10.1	25.0	20.0	101 gr
1/2"	012T	012P	012N	48.0	13.2	38.0	30.0	370 gr
3/4"	034T	034P	034N	58.0	14.5	50.0	40.0	830 gr
1"	100T	100P	100N	61.0	16.8	52.0	42.0	1581 gr

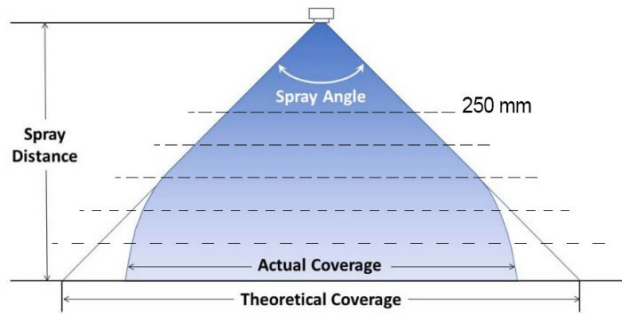
Properties:

- No Whirl Vanes
- Non-Clogging Nozzle
- Uniform Spray
- Full Cone Pattern is Available

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
60°	225
90°	380-390
120°	680



Spray angle (α)	Code	Connection [inch]	Ø B [mm]	Ø E [mm]	Flow rate [l/min]					
					P [bar]					
					0.5	1.0	2.0	3.0	5.0	10.0
90	2SF 422 64 . 060	3/8"	3.00	3.00	2.00	2.83	4.00	4.90	6.32	8.94
	2SF 422 40 . 090	1/4"	1.40	1.40	0.50	0.71	1.00	1.22	1.58	2.24
	2SF 422 48 . 090	1/4"	1.85	1.85	0.80	1.13	1.60	1.96	2.53	3.58
	2SF 422 56 . 090	1/4"	2.25	2.25	1.25	1.77	2.50	3.06	3.95	5.59
	2SF 422 60 . 090	3/8"	2.55	2.55	1.57	2.23	3.15	3.86	4.98	7.04
	2SF 422 64 . 090	3/8"	2.90	2.90	2.00	2.83	4.00	4.90	6.32	8.94
	2SF 422 72 . 090	3/8"	3.70	3.70	3.15	4.45	6.30	7.72	9.96	14.09
	2SF 422 76 . 090	3/8"	4.15	4.15	4.00	5.66	8.00	9.80	12.65	17.89
	2SF 422 80 . 090	3/8"	4.65	4.65	5.00	7.07	10.00	12.25	15.81	22.36
	2SF 422 84 . 090	3/8"	5.30	5.30	6.25	8.84	12.50	15.31	19.76	27.95
	2SF 422 88 . 090	3/8"	5.85	6.00	8.00	11.31	16.00	19.60	25.30	35.78
	2SF 422 96 . 090	1/2"	8.00	8.00	12.50	17.68	25.00	30.62	39.53	55.90



SPADFLOW 2SF 422/423

Tangential Hollow-Cone Nozzle

Webpage
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Spray angle (α)	Code	Connection [inch]	Ø B [mm]	Ø E [mm]	Flow rate [l/min]					
					P [bar]					
					0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	10.0
120°	2SF 422 48 . 120	1/4"	1.90	1.90	0.80	1.13	1.60	1.96	2.53	3.58
	2SF 422 56 . 120	1/4"	2.45	2.40	1.25	1.77	2.50	3.06	3.95	5.59
	2SF 422 60 . 120	3/8"	2.70	2.70	1.57	2.23	3.15	3.86	4.98	7.04
	2SF 422 72 . 120	3/8"	4.00	3.90	3.15	4.45	6.30	7.72	9.96	14.09
	2SF 422 80 . 120	3/8"	4.90	4.90	5.00	7.07	10.00	12.25	15.81	22.36
	2SF 422 84 . 120	3/8"	5.30	5.30	6.25	8.84	12.50	15.31	19.76	27.95
	2SF 422 88 . 120	3/8"	6.60	6.00	8.00	11.31	16.00	19.60	25.30	35.78
	2SF 422 92 . 120	1/2"	7.30	7.30	10.00	14.14	20.00	24.49	31.62	44.72
	2SF 422 96 . 120	1/2"	8.00	8.00	12.50	17.68	25.00	30.62	39.53	55.90
	2SF 423 00 . 120	1/2"	8.70	8.70	15.75	22.27	31.50	38.88	49.81	70.44
	2SF 423 12 . 120	3/4"	12.70	12.30	31.50	44.55	63.00	77.16	99.61	140.87
	2SF 423 20 . 120	1"	17.00	16.00	50.00	70.71	100.00	122.47	158.11	223.61

CHAPTER 3






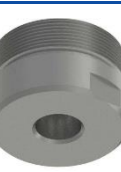
◆◆ Full Cone Nozzles



Full Cone Nozzles

Selection Guide



Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 3L 490	Standard Flow Up to 50 liters per Minute	Standard Pressure Up to 10 bar	Wide Spray Angle 45° - 60° - 90° - 120°	Cleaning & Washing Surface Spraying Container Cleaning Foam Precipitation Degassing of Liquids	32 – 33
 3L 491	Standard Flow Up to 150 liters per Minute	Standard Pressure Up to 10 bar	Wide Spray Angle 45° - 60° - 90° - 120°	Cleaning & Washing Surface Spraying Container Cleaning Foam Precipitation Degassing of Liquids	32 – 33
 3L 460	Standard Flow Up to 50 liters per Minute	Standard Pressure Up to 10 bar	Wide Spray Angle 45° - 60° - 90° - 120°	Cleaning & Washing Surface Spraying Container Cleaning Foam Precipitation Degassing of Liquids	34 – 35
 3L 461	Standard Flow Up to 150 liters per Minute	Standard Pressure Up to 10 bar	Wide Spray Angle 45° - 60° - 90° - 120°	Cleaning & Washing Surface Spraying Container Cleaning Foam Precipitation Degassing of Liquids	34 – 35
 3L 405	High Flow Up to 500 liters per Minute	Standard Pressure Up to 10 bar	Wide Spray Angle 60° - 90° - 120°	Cleaning & Washing Surface Spraying Spraying over Packing Chemical Process Cooling Gaseous Fluids and Solids Water Treatments	36
 403	High Flow Up to 2000 liters per Minute	Standard Pressure Up to 10 bar	Standard Spray Angle 90° - 120°	Surface Spraying Spraying over Packing Chemical Process Cooling Gaseous Fluids and Solids Cleaning & Washing Process	37

Full Cone Nozzles

Selection Guide



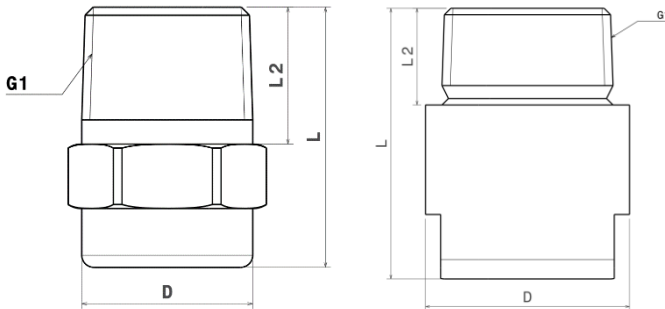
Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 3B MW	Low Flow Up to 2 liters per Minute	High Pressure Up to 200 bar	Standard Spray Angle 20° - 70° (depends on Pressure)	Air Conditioning Concrete Curing Cooling Dust Control Humidification Misting Odor Control Coating Chemical Process	38
 3SF 05	Standard Flow Up to 30 liters per Minute	Standard Pressure Up to 10 bar	Standard Spray Angle 45° - 50° - 55° - 60° - 65° - 70° - 80° - 90°	Continuous Casting Machin Product Cooling Tank Cooling Steel Cleaning Pre-treatment in Coating Process Dust removal Spray of Chemical Leak Test	39 - 41
 3S R	High Flow Up to 15000 liters per Minute	Low Pressure Up to 4 bar	Standard Spray Angle 50° - 65° - 80° - 95°	Cooling for Plants Fire Protection Quenching Scrubbing	42 - 43
 3B MP	High Flow Up to 4000 liters per Minute	Low Pressure Up to 5 bar	Wide Spray Angle 120°	Washing Cooling Evaporating or Volatile Waste Fire Protection Quenching Scrubbing Distribute Slurry in Open Towers	44
 3S QC	Low Flow Up to 4 liters per Minute	Standard Pressure Up to 10 bar	Standard Spray Angle 60°	Degreasing Phosphating in Surface Treatment Industrial Cleaning Container Washers	45



SPADFLOW 3L 490/491

Clog-Resistance Full-Cone Nozzle

Webpage
+ STP



3L 490 Series



3L 491 Series

G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L	L ₂	D	Hex/Flats	
1/8"	018T	018P	018N	18.0	6.5	10.0	11	13 gr
1/4"	014T	014P	014N	22.0	10.0	13.0	14	16 gr
3/8"	038T	038P	038N	24.5	10.0	16.0	17	30 gr
3/8"	038T	038P	038N	30.0	10.0	16.0	17	50 gr
1/2"	012T	012P	012N	32.5	13.0	21.0	22	60 gr
1/2"	012T	012P	012N	43.5	13.0	21.0	22	85 gr
3/4"	034T	034P	034N	42.0	15.0	32.0	27	190 gr
1"	100T	100P	100N	56.0	17.0	40.0	36	350 gr

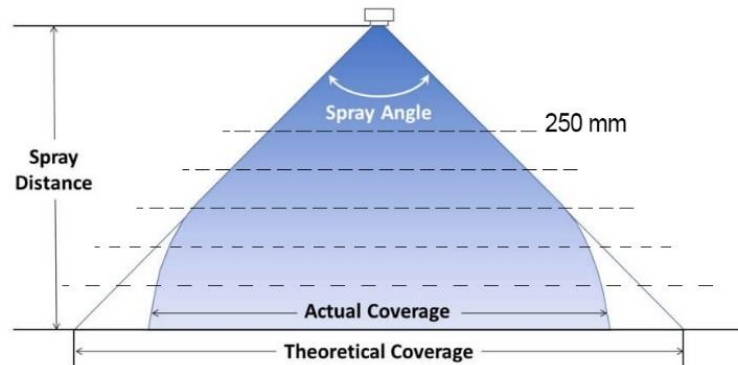
Properties:

- Two-Piece Construction
- S-Type Whirl Vanes
- Non-Clogging Spray Nozzle
- Large Free Cross Section
- Stable Spray Angle

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
45°	200 mm
60°	280 mm
90°	500 mm
120°	850 mm



Spray angle (α)	Code	Connection [inch]	B Ø [mm]	E Ø [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	7.0	10.0
45°	3L 490 40 . 045	1/8"-1/4"	1.25	1.25	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 52 . 045	1/8"-1/4"	1.70	1.70	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 490 60 . 045	1/4"-3/8"	2.00	2.00	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 490 64 . 045	1/4"-3/8"	2.45	2.45	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 490 68 . 045	3/8"	2.55	2.55	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 490 70 . 045	3/8"	2.65	2.65	3.22	4.24	5.60	6.59	8.08	9.24	10.66
	3L 490 72 . 045	3/8"	2.85	2.85	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 490 78 . 045	1/2"	3.45	3.45	5.17	6.82	9.00	10.58	12.98	14.85	17.12
3L 490 84 . 045	1/2"	3.80	3.80	7.18	9.47	12.50	14.70	18.03	20.63	23.80	
60°	3L 490 40 . 060	1/8"-1/4"	1.15	1.15	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 44 . 060	1/8"-1/4"	1.25	1.25	0.72	0.95	1.25	1.47	1.80	2.06	2.38
	3L 490 48 . 060	1/8"-1/4"	1.45	1.45	0.92	1.21	1.60	1.88	2.31	2.64	3.05
	3L 490 52 . 060	1/8"-1/4"	1.60	1.60	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 490 56 . 060	1/8"-1/4"	1.80	1.80	1.44	1.89	2.50	2.94	3.61	4.13	4.76
	3L 490 60 . 060	1/8"-1/4"-3/8"	2.05	2.05	1.81	2.39	3.15	3.70	4.54	5.20	6.00



SPADFLOW 3L 490/491

Clog-Resistance Full-Cone Nozzle



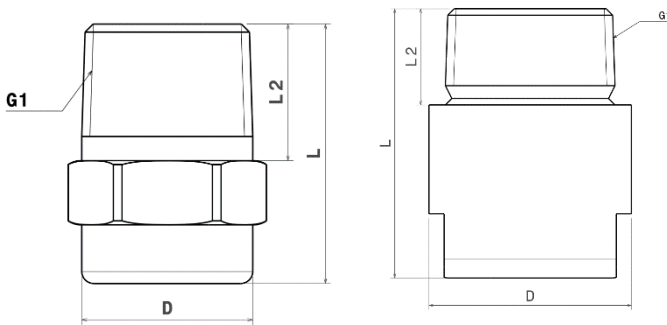
Spray Angle (α)	Code	Connection** [inch]	B Ø [mm]	E Ø [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	7.0	10.0
60°	3L 490 64 . 060	1/4"-3/8"	2.30	2.30	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 490 68 . 060	1/4"-3/8"	2.60	2.60	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 490 72 . 060	1/4"-3/8"	2.95	2.80	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 490 76 . 060	3/8"	3.25	3.25	4.59	6.06	8.00	9.41	11.54	13.20	15.22
	3L 490 80 . 060	3/8"	3.70	3.70	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 490 84 . 060	1/2"	4.05	4.05	7.18	9.47	12.50	14.70	18.03	20.63	23.80
	3L 490 88 . 060	1/2"	4.65	4.65	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 490 92 . 060	3/4"	5.20	5.20	11.49	15.16	20.00	23.52	28.85	33.01	38.07
	3L 490 96 . 060	3/4"	5.80	5.80	14.36	18.95	25.00	29.40	36.07	41.26	47.59
	3L 491 04 . 060	1"	7.25	7.25	22.97	30.31	40.00	47.04	57.71	66.02	76.15
3L 491 08 . 060	1"	8.15	8.15	28.72	37.89	50.00	58.80	72.14	82.53	95.18	
90°	3L 490 40 . 090	1/8"-1/4"	1.20	1.20	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 44 . 090	1/8"-1/4"	1.30	1.30	0.72	0.95	1.25	1.47	1.80	2.06	2.38
	3L 490 48 . 090	1/8"-1/4"	1.45	1.45	0.92	1.21	1.60	1.88	2.31	2.64	3.05
	3L 490 52 . 090	1/8"-1/4"	1.70	1.55	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 490 56 . 090	1/8"-1/4"	1.90	1.90	1.44	1.89	2.50	2.94	3.61	4.13	4.76
	3L 490 60 . 090	1/8"-3/8"	2.10	2.05	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 490 64 . 090	1/4"-3/8"	2.40	2.40	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 490 68 . 090	1/4"-3/8"	2.70	2.70	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 490 72 . 090	1/4"-3/8"	3.20	2.80	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 490 74 . 090	3/8"	3.15	3.15	4.08	5.38	7.10	8.35	10.24	11.72	13.52
	3L 490 76 . 090	3/8"	3.40	3.40	4.59	6.06	8.00	9.41	11.54	13.20	15.22
	3L 490 80 . 090	3/8"	3.90	3.90	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 490 84 . 090	3/8"	4.65	4.00	7.18	9.47	12.50	14.70	18.03	20.63	23.80
	3L 490 88 . 090	1/2"	5.45	4.50	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 490 92 . 090	1/2"	5.90	4.50	11.49	15.16	20.00	23.52	28.85	33.01	38.07
	3L 490 96 . 090	1/2"-3/4"	6.55	4.85	14.36	18.95	25.00	29.40	36.07	41.26	47.59
	3L 491 00 . 090	3/4"	7.55	5.50	18.09	23.87	31.50	37.05	45.45	51.99	59.97
	3L 491 04 . 090	3/4"	8.60	6.60	22.97	30.31	40.00	47.04	57.71	66.02	76.15
	3L 491 08 . 090	1"	9.45	7.25	28.72	37.89	50.00	58.80	72.14	82.53	95.18
	3L 491 12 . 090	1"	10.40	8.00	36.18	47.75	63.00	74.09	90.89	103.98	119.93
3L 491 14 . 090	1"	11.00	7.50	40.78	53.81	71.00	83.50	102.43	117.19	135.16	
120°	3L 490 36 . 120	1/8"-1/4"	0.85	0.65	0.36	0.48	0.63	0.74	0.91	1.04	1.20
	3L 490 40 . 120	1/8"-1/4"	1.20	1.20	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 44 . 120	1/8"-1/4"	1.30	1.30	0.72	0.95	1.25	1.47	1.80	2.06	2.38
	3L 490 48 . 120	1/8"-1/4"	1.45	1.45	0.92	1.21	1.60	1.88	2.31	2.64	3.05
	3L 490 52 . 120	1/8"-1/4"	1.70	1.70	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 490 56 . 120	1/8"-1/4"	1.90	1.90	1.44	1.89	2.50	2.94	3.61	4.13	4.76
	3L 490 60 . 120	1/8"-1/4"	2.10	2.05	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 490 64 . 120	1/4"-3/8"	2.40	2.40	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 490 68 . 120	1/4"-3/8"	2.75	2.75	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 490 72 . 120	1/4"-3/8"	3.20	2.80	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 490 74 . 120	3/8"	3.20	3.20	4.08	5.38	7.10	8.35	10.24	11.72	13.52
	3L 490 76 . 120	3/8"	3.45	3.45	4.59	6.44	8.00	9.41	11.54	13.20	15.22
	3L 490 80 . 120	3/8"	3.90	3.90	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 490 84 . 120	3/8"	4.70	4.00	7.18	9.47	12.50	14.70	18.03	20.63	23.80
	3L 490 88 . 120	1/2"	5.10	4.50	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 490 92 . 120	1/2"	5.80	4.75	11.49	15.16	20.00	23.52	28.85	33.01	38.07
	3L 490 96 . 120	1/2"-3/4"	6.65	4.85	14.36	18.95	25.00	29.40	36.07	41.26	47.59
	3L 491 04 . 120	3/4"	9.20	5.85	22.97	30.31	40.00	47.04	57.71	66.02	76.15
	3L 491 12 . 120	1"	10.80	7.75	36.18	47.75	63.00	74.09	90.89	103.98	119.93
	3L 491 14 . 120	1"	11.40	7.65	40.78	53.81	71.00	83.50	102.43	117.19	135.16



SPADFLOW 3L 460/461

Axial Full-Cone Nozzle

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3L 460 Series

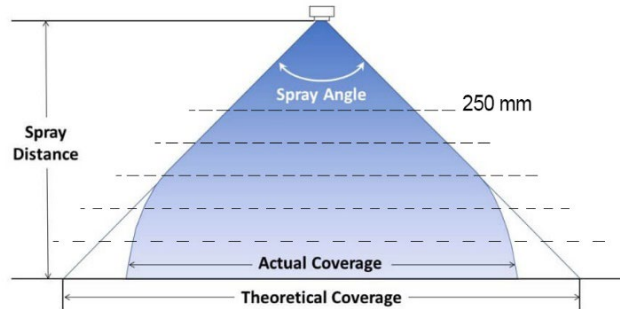
3L 461 Series

G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L	L ₂	D	Hex/Flats	
1/8"	018T	018P	018N	18.0	6.5	10.0	11	13 gr
1/4"	014T	014P	014N	22.0	10.0	13.0	14	16 gr
3/8"	038T	038P	038N	24.5	10.0	16.0	17	30 gr
3/8"	038T	038P	038N	30.0	10.0	16.0	17	50 gr
1/2"	012T	012P	012N	32.5	13.0	21.0	22	60 gr
1/2"	012T	012P	012N	43.5	13.0	21.0	22	85 gr
3/4"	034T	034P	034N	42.0	15.0	32.0	27	190 gr
1"	100T	100P	100N	56.0	17.0	40.0	36	350 gr

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
45°	200
60°	280
90°	500
120°	850



Spray angle (α)	Code	Connection [inch]	B Ø [mm]	E Ø [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0	2.0	3.0	5.0	7.0	10.0
45°	3L 460 40 . 045	1/8"-1/4"	1.25	1.25	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 460 52 . 045	1/8"-1/4"	1.70	1.70	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 460 60 . 045	1/4"-3/8"	2.00	2.00	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 460 64 . 045	1/4"-3/8"	2.45	2.45	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 460 68 . 045	3/8"	2.55	2.55	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 460 70 . 045	3/8"	2.65	2.65	3.22	4.24	5.60	6.59	8.08	9.24	10.66
	3L 460 72 . 045	3/8"	2.85	2.85	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 460 78 . 045	1/2"	3.45	3.45	5.17	6.82	9.00	10.58	12.98	14.85	17.12
3L 460 84 . 045	1/2"	3.80	3.80	7.18	9.47	12.50	14.70	18.03	20.63	23.80	
60°	3L 460 40 . 060	1/8"-1/4"	1.15	1.15	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 460 44 . 060	1/8"-1/4"	1.25	1.25	0.72	0.95	1.25	1.47	1.80	2.06	2.38
	3L 460 48 . 060	1/8"-1/4"	1.45	1.45	0.92	1.21	1.60	1.88	2.31	2.64	3.05
	3L 460 52 . 060	1/8"-1/4"	1.60	1.60	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 460 56 . 060	1/8"-1/4"	1.80	1.80	1.44	1.89	2.50	2.94	3.61	4.13	4.76
	3L 460 60 . 060	1/8"-1/4"-3/8"	2.05	2.05	1.81	2.39	3.15	3.70	4.54	5.20	6.00



SPADFLOW 3L 460/461

Axial Full-Cone Nozzle



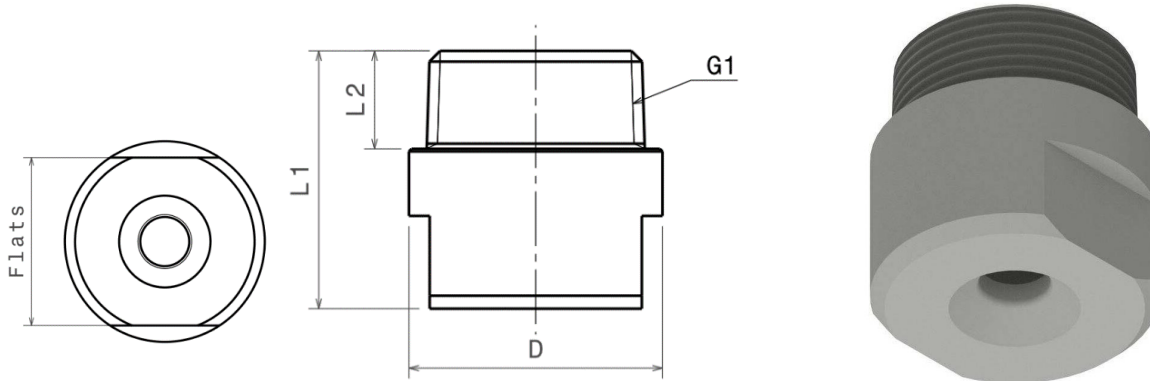
Spray Angle (α)	Code	Connection** [inch]	B Ø [mm]	E Ø [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	7.0	10.0
60°	3L 460 64 . 060	1/4"-3/8"	2.30	2.30	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 460 68 . 060	1/4"-3/8"	2.60	2.60	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 460 72 . 060	1/4"-3/8"	2.95	2.80	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 460 76 . 060	3/8"	3.25	3.25	4.59	6.06	8.00	9.41	11.54	13.20	15.22
	3L 460 80 . 060	3/8"	3.70	3.70	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 460 84 . 060	1/2"	4.05	4.05	7.18	9.47	12.50	14.70	18.03	20.63	23.80
	3L 460 88 . 060	1/2"	4.65	4.65	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 460 92 . 060	3/4"	5.20	5.20	11.49	15.16	20.00	23.52	28.85	33.01	38.07
	3L 460 96 . 060	3/4"	5.80	5.80	14.36	18.95	25.00	29.40	36.07	41.26	47.59
	3L 461 04 . 060	1"	7.25	7.25	22.97	30.31	40.00	47.04	57.71	66.02	76.15
3L 461 08 . 060	1"	8.15	8.15	28.72	37.89	50.00	58.80	72.14	82.53	95.18	
90°	3L 460 40 . 090	1/8"-1/4"	1.20	1.20	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 460 44 . 090	1/8"-1/4"	1.30	1.30	0.72	0.95	1.25	1.47	1.80	2.06	2.38
	3L 460 48 . 090	1/8"-1/4"	1.45	1.45	0.92	1.21	1.60	1.88	2.31	2.64	3.05
	3L 460 52 . 090	1/8"-1/4"	1.70	1.55	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 460 56 . 090	1/8"-1/4"	1.90	1.90	1.44	1.89	2.50	2.94	3.61	4.13	4.76
	3L 460 60 . 090	1/8"-3/8"	2.10	2.05	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 460 64 . 090	1/4"-3/8"	2.40	2.40	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 460 68 . 090	1/4"-3/8"	2.70	2.70	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 460 72 . 090	1/4"-3/8"	3.20	2.80	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 460 74 . 090	3/8"	3.15	3.15	4.08	5.38	7.10	8.35	10.24	11.72	13.52
	3L 460 76 . 090	3/8"	3.40	3.40	4.59	6.06	8.00	9.41	11.54	13.20	15.22
	3L 460 80 . 090	3/8"	3.90	3.90	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 460 84 . 090	3/8"	4.65	4.00	7.18	9.47	12.50	14.70	18.03	20.63	23.80
	3L 460 88 . 090	1/2"	5.45	4.50	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 460 92 . 090	1/2"	5.90	4.50	11.49	15.16	20.00	23.52	28.85	33.01	38.07
	3L 460 96 . 090	1/2"-3/4"	6.55	4.85	14.36	18.95	25.00	29.40	36.07	41.26	47.59
	3L 461 00 . 090	3/4"	7.55	5.50	18.09	23.87	31.50	37.05	45.45	51.99	59.97
	3L 461 04 . 090	3/4"	8.60	6.60	22.97	30.31	40.00	47.04	57.71	66.02	76.15
	3L 461 08 . 090	1"	9.45	7.25	28.72	37.89	50.00	58.80	72.14	82.53	95.18
	3L 461 12 . 090	1"	10.40	8.00	36.18	47.75	63.00	74.09	90.89	103.98	119.93
3L 461 14 . 090	1"	11.00	7.50	40.78	53.81	71.00	83.50	102.43	117.19	135.16	
120°	3L 460 36 . 120	1/8"-1/4"	0.85	0.65	0.36	0.48	0.63	0.74	0.91	1.04	1.20
	3L 460 40 . 120	1/8"-1/4"	1.20	1.20	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 460 44 . 120	1/8"-1/4"	1.30	1.30	0.72	0.95	1.25	1.47	1.80	2.06	2.38
	3L 460 48 . 120	1/8"-1/4"	1.45	1.45	0.92	1.21	1.60	1.88	2.31	2.64	3.05
	3L 460 52 . 120	1/8"-1/4"	1.70	1.70	1.15	1.52	2.00	2.35	2.89	3.30	3.81
	3L 460 56 . 120	1/8"-1/4"	1.90	1.90	1.44	1.89	2.50	2.94	3.61	4.13	4.76
	3L 460 60 . 120	1/8"-1/4"	2.10	2.05	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 460 64 . 120	1/4"-3/8"	2.40	2.40	2.30	3.03	4.00	4.70	5.77	6.60	7.61
	3L 460 68 . 120	1/4"-3/8"	2.75	2.75	2.87	3.79	5.00	5.88	7.21	8.25	9.52
	3L 460 72 . 120	1/4"-3/8"	3.20	2.80	3.62	4.77	6.30	7.41	9.09	10.40	11.99
	3L 460 74 . 120	3/8"	3.20	3.20	4.08	5.38	7.10	8.35	10.24	11.72	13.52
	3L 460 76 . 120	3/8"	3.45	3.45	4.59	6.44	8.00	9.41	11.54	13.20	15.22
	3L 460 80 . 120	3/8"	3.90	3.90	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 460 84 . 120	3/8"	4.70	4.00	7.18	9.47	12.50	14.70	18.03	20.63	23.80
	3L 460 88 . 120	1/2"	5.10	4.50	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 460 92 . 120	1/2"	5.80	4.75	11.49	15.16	20.00	23.52	28.85	33.01	38.07
	3L 460 96 . 120	1/2"-3/4"	6.65	4.85	14.36	18.95	25.00	29.40	36.07	41.26	47.59
	3L 461 04 . 120	3/4"	9.20	5.85	22.97	30.31	40.00	47.04	57.71	66.02	76.15
	3L 461 12 . 120	1"	10.80	7.75	36.18	47.75	63.00	74.09	90.89	103.98	119.93
	3L 461 14 . 120	1"	11.40	7.65	40.78	53.81	71.00	83.50	102.43	117.19	135.16



SPADFLOW 3L 405

Axial Full-Cone Nozzle

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G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L1	L1	D	Flats	
1 1/4"	114T	114P	114N	50.0	19.0	49.0	41	500 gr
1 1/2"	112T	112P	112N	60.0	19.0	59.0	50	900 gr
2"	200T	200P	200N	78.0	24.0	68.0	60	1600 gr

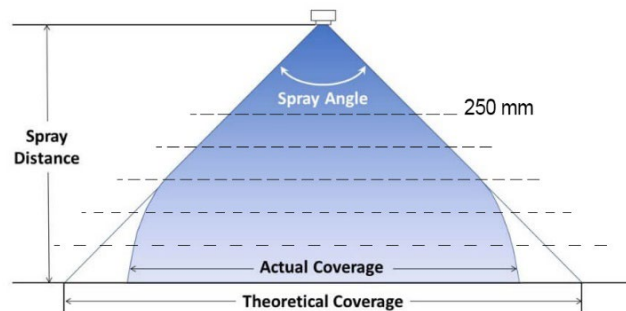
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage @ 250 mm
60°	280 mm
90°	500 mm
120°	850 mm

Properties:

- Two-Piece Construction
- Internal Vane
- Uniform Spray Pattern
- High Flow



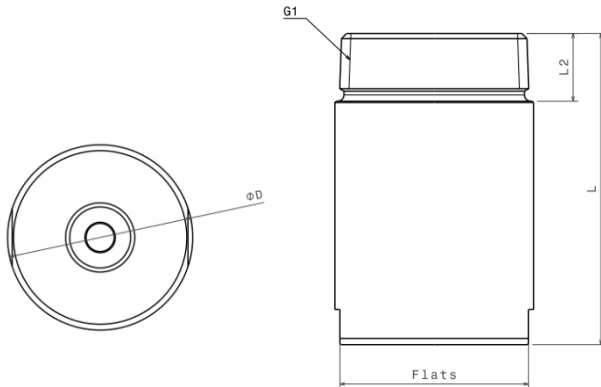
Spray angle (α)	Code	Connection [inch]	B \emptyset [mm]	E \emptyset [mm]	Flow rate [l/min]					
					P [bar]					
					0.3	0.5	1.0 <i>K factor</i>	2.0	3.0	5.0
60°	3L 405 20 . 060	1 1/4"	11.20	5.80	47	57	76	100	118	144
	3L 405 28 . 060	1 1/2"	14.30	7.00	75	92	121	160	188	231
	3L 405 32 . 060	2"	16.40	7.50	94	115	152	200	235	289
	3L 405 36 . 060	2"	18.40	8.50	117	144	189	250	294	361
	3L 405 40 . 060	2"	20.00	7.00	147	181	239	315	370	454
90°	3L 405 20 . 090	1 1/4"	12.00	5.00	47	57	76	100	118	144
	3L 405 28 . 090	1 1/2"	15.20	6.20	75	92	121	160	188	231
	3L 405 32 . 090	2"	17.20	7.70	94	115	152	200	235	289
	3L 405 36 . 090	2"	19.50	8.70	117	144	189	250	294	361
	3L 405 40 . 090	2"	22.00	9.50	147	181	239	315	370	454
120°	3L 405 20 . 120	1 1/4"	12.70	5.00	47	57	76	100	118	144
	3L 405 28 . 120	1 1/2"	16.00	6.60	75	92	121	160	188	231
	3L 405 32 . 120	2"	17.80	7.90	94	115	152	200	235	289
	3L 405 36 . 120	2"	20.10	8.80	117	144	189	250	294	361
	3L 405 40 . 120	2"	22.40	9.10	147	181	239	315	370	454



SPADFLOW 3L 403

Axial Full-Cone Nozzle

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90° Version

120° Version

Properties:

- Two-Piece Construction
- Internal Vane
- Uniform Spray Pattern
- High Flow

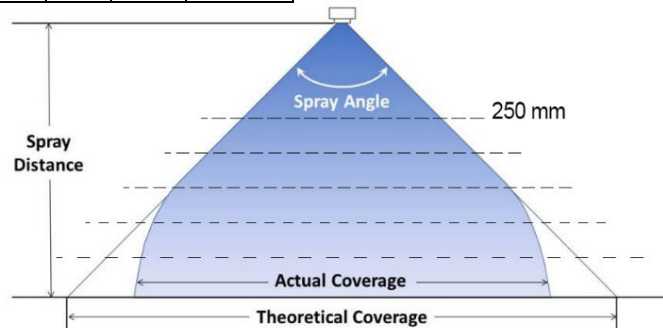
Version	G1	Thread Type			Dimensions [mm]				Weight
		BSPT	BSPP	NPT	L ₁	L ₂	D	Flats	
90°	2 1/2"	212T	212P	212N	52	27	83	75	1,300 gr
	3"	300T	300P	300N	60	30	98	85	2,000 gr
	3 1/2"	312T	312P	312N	70	32	118	105	3,600 gr

Version	G1	Thread Type			Dimensions [mm]				Weight
		BSPT	BSPP	NPT	L ₁	L ₂	D	Flats	
120°	2 1/2"	212T	212P	212N	124	27	83	75	3,200 gr
	3"	300T	300P	300N	153	30	98	85	5,400 gr
	3 1/2"	312T	312P	312N	156	32	118	105	8,300 gr
	4"	400T	400P	400N	165	36	128	110	9,600 gr

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage @ 250 mm
90°	500 mm
120°	850 mm

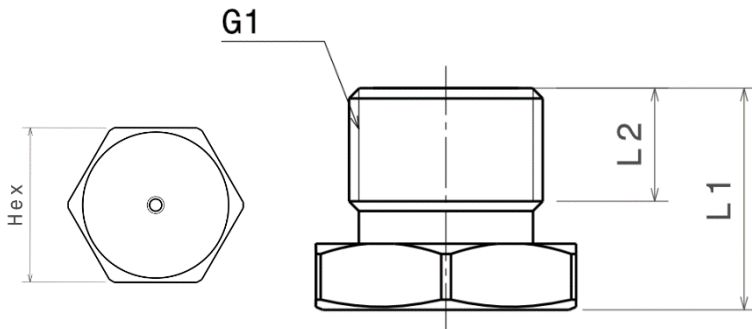


Spray angle (α)	Code	Connection [inch]	B Ø [mm]	E Ø [mm]	Flow rate [l/min]						
					P [bar]						
					0.3	0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	7.0
90°	3L 403 44 . 090	2 1/2"	25.00	12.00	187	230	303	400	470	577	660
	3L 403 48 . 090	2 1/2"	29.50	12.00	234	287	379	500	588	721	825
	3L 403 52 . 090	3"	32.00	13.80	295	362	477	630	741	909	1,040
	3L 403 60 . 090	3 1/2"	40.00	15.00	468	574	758	1,000	1,176	1,443	1,651
120°	3L 403 44 . 120	2 1/2"	25.50	10.00	187	230	303	400	470	577	660
	3L 403 48 . 120	2 1/2"	29.50	11.00	234	287	379	500	588	721	825
	3L 403 52 . 120	3"	32.00	15.00	295	362	477	630	741	909	1,040
	3L 403 60 . 120	3 1/2"	42.00	12.00	469	574	758	1,000	1,176	1,443	1,651
	3L 403 62 . 120	4"	45.00	15.00	585	718	947	1,250	1,470	1,903	2,063



SPADFLOW 3B MW

Mist Full-Cone Nozzle



G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L ₁	L ₂	D	Hex	
1/8"	018T	018P	018N	12.3	6.5	11.1	13	7.1 gr
1/4"	014T	018P	014N	17.5	9.7	14.3	17	7.1 gr

Material*	Code
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

Three - Piece Construction

Internal Vane

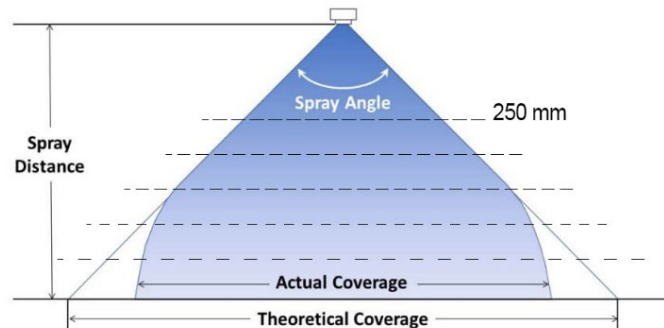
Drip-Free Performance

Mist at Low Pressure; Fog at High Pressure

Outstanding Atomization

α*	Spray coverage @ 250 mm
20°	80
70°	350

* Atomization and nominal angle (pattern) change with increasing operation pressure.



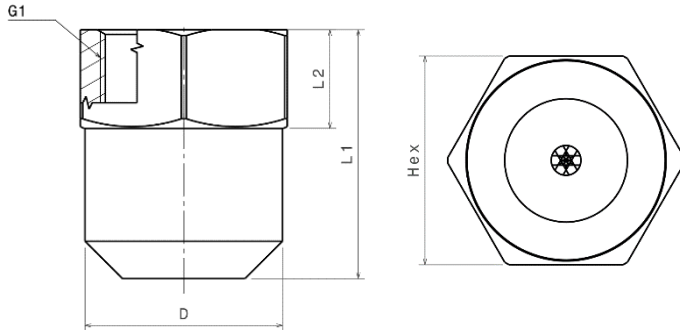
Spray angle	Code	Flow rate [l/min]						
		P [bar]						
		7.0	20.0	40	70	100	170	200
70°	3B MW 085 . 70	0.032	0.055	0.077	0.102	0.122	0.160	0.173
	3B MW 105 . 70	0.040	0.068	0.096	0.127	0.151	0.197	0.214
	3B MW 125 . 70	0.048	0.081	0.114	0.151	0.18	0.235	0.255
	3B MW 145 . 70	0.055	0.093	0.132	0.175	0.209	0.272	0.296
	3B MW 195 . 70	0.074	0.126	0.178	0.235	0.281	0.366	0.397
	3B MW 275 . 70	0.105	0.177	0.251	0.332	0.396	0.517	0.560
	3B MW 695 . 70	0.264	0.447	0.632	0.836	0.999	1.302	1.413



SPADFLOW 3SF 05

Most Diverse Series of Full-Cone Nozzle

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G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L ₁	L ₂	D	Hex/Flats	
3/8"	038T	038P	038N	26.5	10	21.5	22	55 g

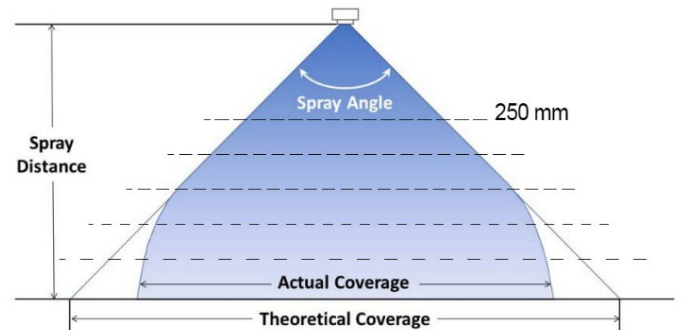
Properties:

- Two-Piece Construction
- Internal Vane
- Good Resistance to Clogging
- Uniform Spray

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
45°	200
50°	230
55°	260
60°	280
65°	320
70°	350
80°	420
90°	500



Spray angle	Code	General Code	Flow rate [l/min]						
			P [bar]						
			1.0 K factor	2.0	2.8	3.0	5.0	7.0	10
45°	3SF 05 020 . 45	2045	1.20	1.70	2.00	2.08	2.68	3.17	3.79
	3SF 05 025 . 45	2545	1.49	2.11	2.50	2.58	3.33	3.94	4.71
	3SF 05 030 . 45	3045	1.80	2.55	3.00	3.12	4.02	4.76	5.69
	3SF 05 035 . 45	3545	2.10	2.97	3.50	3.64	4.70	5.56	6.64
	3SF 05 040 . 45	4045	2.40	3.39	4.00	4.16	5.37	6.35	7.59
	3SF 05 047 . 45	4745	2.80	3.96	4.70	4.85	6.26	7.41	8.85
	3SF 05 050 . 45	5045	3.00	4.24	5.00	5.20	6.71	7.94	9.49
	3SF 05 055 . 45	5545	3.29	4.65	5.50	5.69	7.35	8.70	10.39
	3SF 05 060 . 45	6045	3.60	5.09	6.00	6.24	8.05	9.52	11.38
	3SF 05 070 . 45	7045	4.18	5.91	7.00	7.24	9.35	11.06	13.22
	3SF 05 080 . 45	8045	4.80	6.79	8.00	8.31	10.73	12.70	15.18
	3SF 05 100 . 45	10045	5.98	8.45	10.00	10.35	13.36	15.81	18.90
	3SF 05 120 . 45	12045	7.17	10.14	12.00	12.42	16.04	18.97	22.68



SPADFLOW 3SF 05

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Spray angle	Code	General Code	Flow rate [l/min]						
			P [bar]						
			1.0 <i>K factor</i>	2.0	2.8	3.0	5.0	7.0	10
50°	3SF 05 060 . 50	6050	3.59	5.07	6.00	6.21	8.02	9.49	11.34
55°	3SF 05 060 . 55	6055	3.59	5.07	6.00	6.21	8.02	9.49	11.34
60°	3SF 05 014 . 60	1460	0.86	1.22	1.44	1.49	1.92	2.28	2.72
	3SF 05 022 . 60	2260	1.29	1.82	2.16	2.23	2.88	3.41	4.08
	3SF 05 025 . 60	2560	1.49	2.11	2.50	2.59	3.34	3.95	4.72
	3SF 05 027 . 60	2760	1.61	2.28	2.70	2.79	3.61	4.27	5.10
	3SF 05 030 . 60	3060	1.79	2.54	3.00	3.11	4.01	4.74	5.67
	3SF 05 035 . 60	3560	2.09	2.96	3.50	3.62	4.68	5.53	6.61
	3SF 05 036 . 60	3660	2.15	3.04	3.60	3.72	4.81	5.69	6.80
	3SF 05 049 . 60	4960	2.93	4.14	4.90	5.07	6.55	7.75	9.27
	3SF 05 060 . 60	6060	3.61	5.11	6.04	6.25	8.07	9.55	11.42
	3SF 05 072 . 60	7260	4.29	6.07	7.18	7.43	9.59	11.35	13.57
	3SF 05 165 . 60	16560	9.86	13.95	16.50	17.08	22.05	26.09	31.18
65°	3SF 05 010 . 65	1065	0.60	0.85	1.00	1.04	1.34	1.58	1.89
	3SF 05 015 . 65	1565	0.90	1.27	1.50	1.55	2.00	2.37	2.83
	3SF 05 016 . 65	1665	0.96	1.35	1.60	1.66	2.14	2.53	3.02
	3SF 05 020 . 65	2065	1.20	1.69	2.00	2.07	2.67	3.16	3.78
	3SF 05 024 . 65	2465	1.40	1.98	2.40	2.42	3.13	3.70	4.43
	3SF 05 025 . 65	2565	1.49	2.11	2.50	2.59	3.34	3.95	4.72
	3SF 05 030 . 65	3065	1.79	2.54	3.00	3.11	4.01	4.74	5.67
	3SF 05 033 . 65	3365	1.96	2.77	3.28	3.39	4.38	5.19	6.20
	3SF 05 035 . 65	3565	2.09	2.96	3.50	3.62	4.68	5.53	6.61
	3SF 05 038 . 65	3865	2.27	3.21	3.80	3.93	5.08	6.01	7.18
	3SF 05 040 . 65	4065	2.39	3.38	4.00	4.14	5.35	6.32	7.56
	3SF 05 042 . 65	4265	2.51	3.55	4.20	4.35	5.61	6.64	7.94
	3SF 05 045 . 65	4565	2.69	3.80	4.50	4.66	6.01	7.12	8.50
	3SF 05 047 . 65	4765	2.81	3.97	4.70	4.86	6.28	7.43	8.88
	3SF 05 050 . 65	5065	3.00	4.24	5.00	5.20	6.71	7.94	9.49
	3SF 05 055 . 65	5565	3.28	4.64	5.50	5.68	7.33	8.68	10.37
	3SF 05 059 . 65	5965	3.50	4.95	5.90	6.06	7.83	9.26	11.07
	3SF 05 060 . 65	6065	3.59	5.07	6.00	6.21	8.02	9.49	11.34
	3SF 05 065 . 65	6565	3.88	5.49	6.50	6.73	8.69	10.28	12.28
	3SF 05 066 . 65	6665	3.94	5.58	6.60	6.83	8.82	10.44	12.47
	3SF 05 070 . 65	7065	4.18	5.92	7.00	7.25	9.35	11.07	13.23
	3SF 05 072 . 65	7265	4.30	6.09	7.20	7.45	9.62	11.38	13.61
	3SF 05 073 . 65	7365	4.36	6.17	7.30	7.56	9.76	11.54	13.80
	3SF 05 075 . 65	7565	4.48	6.34	7.50	7.76	10.02	11.86	14.17
	3SF 05 080 . 65	8065	4.78	6.76	8.00	8.28	10.69	12.65	15.12
	3SF 05 085 . 65	8565	5.08	7.18	8.50	8.80	11.36	13.44	16.06
	3SF 05 090 . 65	9065	5.40	7.64	9.00	9.35	12.07	14.29	17.08
	3SF 05 095 . 65	9565	5.68	8.03	9.50	9.83	12.69	15.02	17.95
3SF 05 100 . 65	10065	5.98	8.45	10.00	10.35	13.36	15.81	18.90	
3SF 05 120 . 65	12065	7.17	10.14	12.00	12.42	16.04	18.97	22.68	
3SF 05 130 . 65	13065	7.77	10.99	13.00	13.46	17.37	20.56	24.57	
3SF 05 146 . 65	14665	8.73	12.34	14.60	15.11	19.51	23.08	27.59	
3SF 05 150 . 65	15065	8.96	12.67	15.00	15.52	20.04	23.71	28.33	
3SF 05 160 . 65	16065	9.55	13.51	16.00	16.54	21.35	25.27	30.20	
3SF 05 165 . 65	16565	9.86	13.95	16.50	17.08	22.05	26.09	31.18	
3SF 05 170 . 65	17065	10.16	14.37	17.00	17.60	22.72	26.88	32.13	
70°	3SF 05 026 . 70	2670	1.55	2.20	2.60	2.69	3.47	4.11	4.91
	3SF 05 052 . 70	5270	3.11	4.39	5.20	5.38	6.95	8.22	9.83
	3SF 05 062 . 70	6270	3.71	5.24	6.20	6.42	8.29	9.80	11.72
80°	3SF 05 015 . 80	1580	0.90	1.27	1.50	1.56	2.01	2.38	2.85
	3SF 05 020 . 80	2080	1.20	1.69	2.00	2.07	2.67	3.16	3.78
	3SF 05 025 . 80	2580	1.49	2.11	2.49	2.58	3.33	3.94	4.71
	3SF 05 030 . 80	3080	1.79	2.54	3.00	3.11	4.01	4.74	5.67
	3SF 05 033 . 80	3380	1.96	2.77	3.28	3.39	4.38	5.19	6.20
	3SF 05 035 . 80	3580	2.09	2.96	3.50	3.62	4.68	5.53	6.61
	3SF 05 040 . 80	4080	2.39	3.38	4.00	4.14	5.35	6.32	7.56
	3SF 05 045 . 80	4580	2.69	3.80	4.50	4.66	6.01	7.12	8.50
	3SF 05 050 . 80	5080	2.99	4.23	5.00	5.18	6.68	7.91	9.45



SPADFLOW 3SF 05

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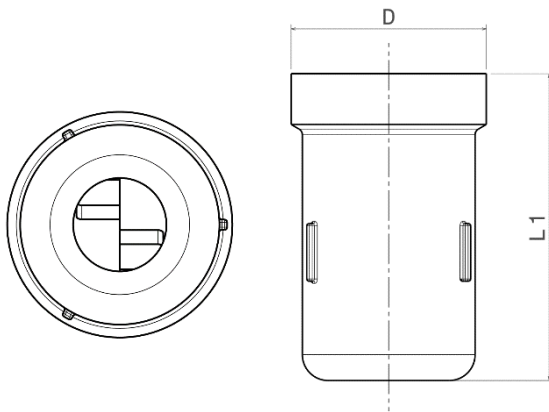


Spray angle	Code	General Code	Flow rate [l/min]						
			P [bar]						
			1.0 <i>K factor</i>	2.0	2.8	3.0	5.0	7.0	10
80°	3SF 05 060 . 80	6080	3.59	5.07	6.00	6.21	8.02	9.49	11.34
	3SF 05 075 . 80	7580	4.50	6.36	7.53	7.79	10.06	11.91	14.23
	3SF 05 080 . 80	8080	4.78	6.76	8.00	8.28	10.69	12.65	15.12
	3SF 05 085 . 80	8580	5.08	7.18	8.50	8.80	11.36	13.44	16.06
	3SF 05 098 . 80	9880	5.86	8.28	9.80	10.14	13.10	15.50	18.52
	3SF 05 102 . 80	10280	6.10	8.62	10.20	10.56	13.63	16.13	19.28
	3SF 05 106 . 80	10680	6.33	8.96	10.60	10.97	14.16	16.76	20.03
	3SF 05 110 . 80	11080	6.57	9.30	11.00	11.39	14.70	17.39	20.79
	3SF 05 118 . 80	11880	7.05	9.97	11.80	12.21	15.77	18.66	22.30
	3SF 05 129 . 80	12980	7.71	10.90	12.90	13.35	17.24	20.40	24.38
	3SF 05 150 . 80	15080	8.96	12.68	15.00	15.53	20.04	23.72	28.35
	3SF 05 160 . 80	16080	9.56	13.52	16.00	16.56	21.38	25.30	30.24
90°	3SF 05 015 . 90	1590	0.90	1.27	1.50	1.56	2.01	2.38	2.85
	3SF 05 020 . 90	2090	1.20	1.70	2.00	2.08	2.68	3.17	3.79
	3SF 05 025 . 90	2590	1.49	2.11	2.50	2.59	3.34	3.95	4.72
	3SF 05 030 . 90	3090	1.79	2.54	3.00	3.11	4.01	4.74	5.67
	3SF 05 035 . 90	3590	2.09	2.96	3.50	3.62	4.67	5.53	6.61
	3SF 05 038 . 90	3890	2.27	3.21	3.80	3.93	5.08	6.01	7.18
	3SF 05 040 . 90	4090	2.39	3.38	4.00	4.14	5.35	6.32	7.56
	3SF 05 045 . 90	4590	2.69	3.80	4.50	4.66	6.01	7.12	8.50
	3SF 05 046 . 90	4690	2.75	3.89	4.60	4.76	6.15	7.27	8.69
	3SF 05 050 . 90	5090	2.99	4.23	5.00	5.18	6.68	7.91	9.45
	3SF 05 055 . 90	5590	3.29	4.65	5.50	5.69	7.35	8.70	10.39
	3SF 05 060 . 90	6090	3.59	5.07	6.00	6.21	8.02	9.49	11.34
	3SF 05 065 . 90	6590	3.88	5.49	6.50	6.73	8.69	10.28	12.28
	3SF 05 074 . 90	7490	4.42	6.25	7.40	7.66	9.89	11.70	13.98
	3SF 05 080 . 90	8090	4.78	6.76	8.00	8.28	10.69	12.65	15.12
	3SF 05 090 . 90	9090	5.38	7.61	9.00	9.32	12.03	14.23	17.01
	3SF 05 095 . 90	9590	5.68	8.03	9.50	9.83	12.69	15.02	17.95
	3SF 05 100 . 90	10090	5.98	8.45	10.00	10.35	13.36	15.81	18.90
	3SF 05 110 . 90	11090	6.57	9.30	11.00	11.39	14.70	17.39	20.79
	3SF 05 120 . 90	12090	7.17	10.14	12.00	12.42	16.04	18.97	22.68
3SF 05 146 . 90	14690	8.73	12.34	14.60	15.11	19.51	23.08	27.59	

SPADFLOW 3S R

High Flow Full-Cone Nozzle

Webpage
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Properties:

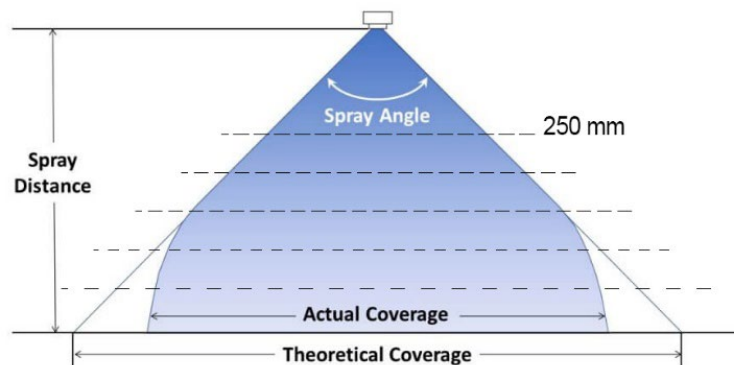
- One-Piece Construction
- Internal Vane
- Large Open Orifice

G1	Thread Type			Dimensions [mm]		Weight
	BSPT	BSPP	NPT	L ₁	D	
2"	200T	200P	200N	112.7	74.6	1.36 Kg
2 1/2"	212T	212P	212N	138.9	88.1	2.49 Kg
3"	300T	300P	300N	165.1	104.8	3.40 Kg
4"	400T	400P	400N	206.4	127.0	6.12 Kg
5"	500T	500P	500N	254.8	161.9	14.97 Kg
6"	600T	600P	600N	300.0	193.7	17.46 Kg
8"	800T	800P	800N	388.9	241.3	34.02 Kg

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage
	@ 250 mm
50°	220
65°	300
80°	420
95°	550



Spray angle (α)	Code	Connection [inch]	Flow rate [l/min]							
			P [bar]							
			0.1	0.2	0.4	0.5	0.7	1.5	3	4
50°	3S R 45 . 050	2"	122	168	231	256	298	424	583	665
	3S R 70 . 050	2 1/2"	190	261	359	398	464	659	907	1035
	3S R 110 . 050	3"	298	410	564	625	730	1036	1425	1627
	3S R 160 . 050	4"	434	596	820	909	1061	1507	2073	2366
	3S R 190 . 050	4"	515	708	974	1079	1260	1789	2461	2809
	3S R 250 . 050	5"	677	932	1282	1420	1658	2354	3238	3697
	3S R 280 . 050	5"	759	1044	1436	1591	1857	2637	3627	4140
	3S R 360 . 050	6"	975	1342	1846	2045	2388	3390	4663	5323
	3S R 400 . 050	6"	1084	1491	2051	2273	2653	3767	5181	5915
	3S R 650 . 050	8"	1761	2423	3333	3693	4311	6121	8420	9611
3S R 750 . 050	8"	2032	2795	3845	4261	4974	7063	9715	11090	
65°	3S R 45 . 065	2"	122	168	231	256	298	424	583	665
	3S R 60 . 065	2"	163	224	308	341	398	565	777	887
	3S R 70 . 065	2 1/2"	190	261	359	398	464	659	907	1035
	3S R 90 . 065	2 1/2"	244	335	461	511	597	848	1166	1331



SPADFLOW 3S R

High Flow Full-Cone Nozzle

Webpage
+ STP



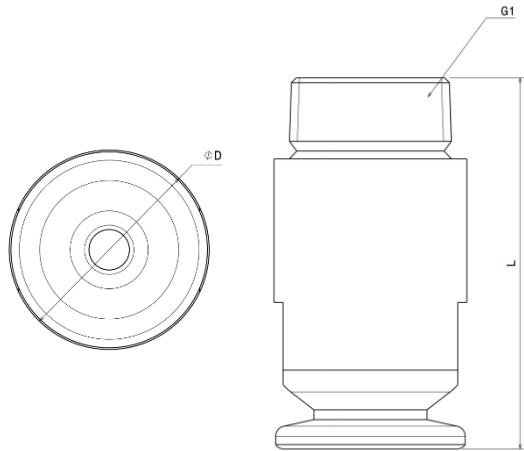
Spray angle (α)	Code	Connection [inch]	Flow rate [l/min]							
			P [bar]							
			0.1	0.2	0.4	0.5	0.7	1.5	3	4
	3S R 110 . 065	3"	298	410	564	625	730	1036	1425	1627
	3S R 140 . 065	3"	379	522	718	795	929	1318	1814	2070
	3S R 160 . 065	4"	434	596	820	909	1061	1507	2073	2366
	3S R 190 . 065	4"	515	708	974	1079	1260	1789	2461	2809
	3S R 250 . 065	4" – 5"	677	932	1282	1420	1658	2354	3238	3697
	3S R 280 . 065	5"	759	1044	1436	1591	1857	2637	3627	4140
	3S R 360 . 065	6"	975	1342	1846	2045	2388	3390	4663	5323
	3S R 380 . 065	5"	1030	1416	1948	2159	2520	3579	4922	5619
	3S R 400 . 065	6"	1084	1491	2051	2273	2653	3767	5181	5915
	3S R 560 . 065	6"	1517	2087	2871	3182	3714	5274	7254	8280
	3S R 650 . 065	8"	1761	2423	3333	3693	4311	6121	8420	9611
	3S R 750 . 065	8"	2032	2795	3845	4261	4974	7063	9715	11090
	3S R 850 . 065	8"	2303	3168	4358	4829	5637	8005	11011	12569
80°	3S R 160 . 080	4"	434	596	820	909	1061	1507	2073	2366
	3S R 250 . 080	5"	677	932	1282	1420	1658	2354	3238	3697
	3S R 360 . 080	6"	975	1342	1846	2045	2388	3390	4663	5323
	3S R 650 . 080	8"	1761	2423	3333	3693	4311	6121	8420	9611
95°	3S R 45 . 095	2"	122	168	231	256	298	424	583	665
	3S R 60 . 095	2"	163	224	308	341	398	565	777	887
	3S R 70 . 095	2 1/2"	190	261	359	398	464	659	907	1035
	3S R 90 . 095	2 1/2"	244	335	461	511	597	848	1166	1331
	3S R 110 . 095	3"	298	410	564	625	730	1036	1425	1627
	3S R 140 . 095	3"	379	522	718	795	929	1318	1814	2070
	3S R 190 . 095	4"	515	708	974	1079	1260	1789	2461	2809
	3S R 250 . 095	4"	677	932	1282	1420	1658	2354	3238	3697
	3S R 280 . 095	5"	759	1044	1436	1591	1857	2637	3627	4140
	3S R 380 . 095	5"	1030	1416	1948	2159	2520	3579	4922	5619
	3S R 400 . 095	6"	1084	1491	2051	2273	2653	3767	5181	5915
	3S R 560 . 095	6"	1517	2087	2871	3182	3714	5274	7254	8280
	3S R 750 . 095	8"	2032	2795	3845	4261	4974	7063	9715	11090
	3S R 850 . 095	8"	2303	3168	4358	4829	5637	8005	11011	12569
3S R 1000 . 095	8"	2710	3727	5127	5681	6632	9417	12954	14787	



SPADFLOW 3B MP

High Flow Full-Cone Nozzle

Webpage
+ STP



Properties:

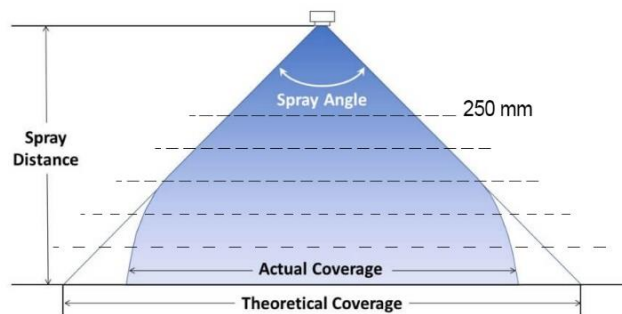
- One-Piece Construction
- Internal Vane
- Large Open Orifice

G1	Thread Type		
	BSPT	BSPP	NPT
2"	200T	200P	200N
2 1/2"	212T	212P	212N
3"	300T	300P	300N
4"	400T	400P	400N

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage @ 250 mm
120°	850 mm

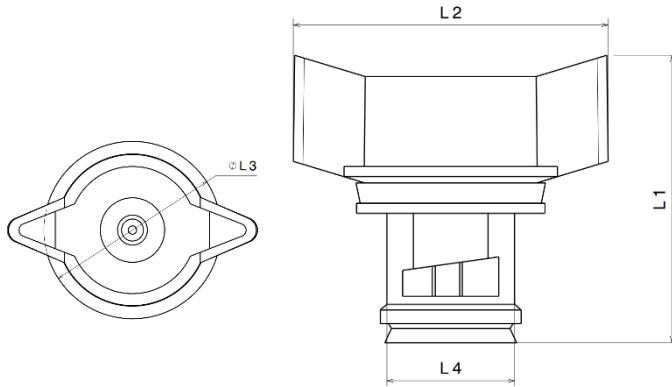


Spray angle (α)	Code	Connection** [inch]	Flow rate [l/min]								Dimension [mm]		Weight
			P [bar]								L	D	
			0.2	0.3	0.5	0.7	1 <i>K factor</i>	2	3	5			
120°	3B MP 750 . 120	2"	94.8	115	146	171	202	280	339	430	159	66.8	1.59 Kg
	3B MP 812 . 120	2"	104	126	160	187	221	306	370	471	159	66.8	1.59 Kg
	3B MP 875 . 120	2"	129	155	197	231	273	378	458	582	159	66.8	1.59 Kg
	3B MP 937 . 120	2"	144	174	221	259	306	424	513	652	165	82.6	1.70 Kg
	3B MP 1000 . 120	2" - 2 1/2"	168	203	259	303	358	496	600	763	171	82.6	1.70 Kg
	3B MP 1125 . 120	2" - 2 1/2"	206	249	317	371	439	608	736	935	168	82.6	1.70 Kg
	3B MP 1250 . 120	2 1/2"	247	299	381	446	527	730	883	1120	171	82.6	2.04 Kg
	3B MP 1375 . 120	2 1/2"	297	359	456	535	632	875	1060	1350	178	82.6	2.04 Kg
	3B MP 1500 . 120	2 1/2" - 3"	363	440	559	655	774	1070	1230	1650	181	82.6	2.04 Kg
	3B MP 1625 . 120	3"	428	517	658	770	911	1260	1530	1940	229	102	2.84 Kg
	3B MP 1750 . 120	3" - 4"	488	591	751	880	1040	1440	1740	2220	229	102	2.84 Kg
	3B MP 1875 . 120	4"	549	664	845	989	1,170	1,620	1,960	2,490	248	121	3.29 Kg
	3B MP 2000 . 120	4"	643	778	989	1160	1370	1900	2300	2920	251	121	3.29 Kg
	3B MP 2125 . 120	4"	718	869	1100	1290	1530	2120	2560	3260	251	121	3.29 Kg
3B MP 2250 . 120	4"	779	943	1200	1,400	1,660	2,300	2,780	3,540	248	121	3.63 Kg	



SPADFLOW 3S QPHA

Quick Connect Full-Cone Nozzle



G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L1	L2	L3	L4	
1/4"	014T	018P	014N	28.4	31.9	22	13	10 gr

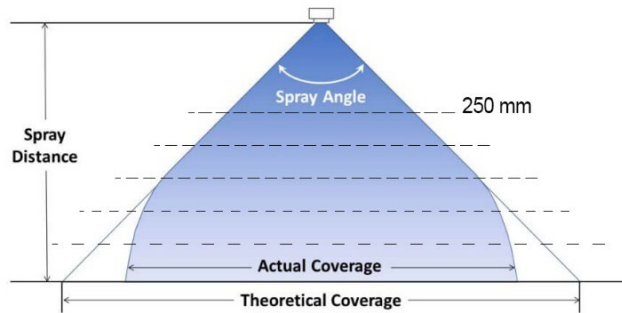
Material*	Code
Polypropylene	PP
Polyamide	PA

* Different materials are available upon request

Properties:

- Two - Piece Construction
- Internal Vane
- Drip-Free Performance
- Quick Connection

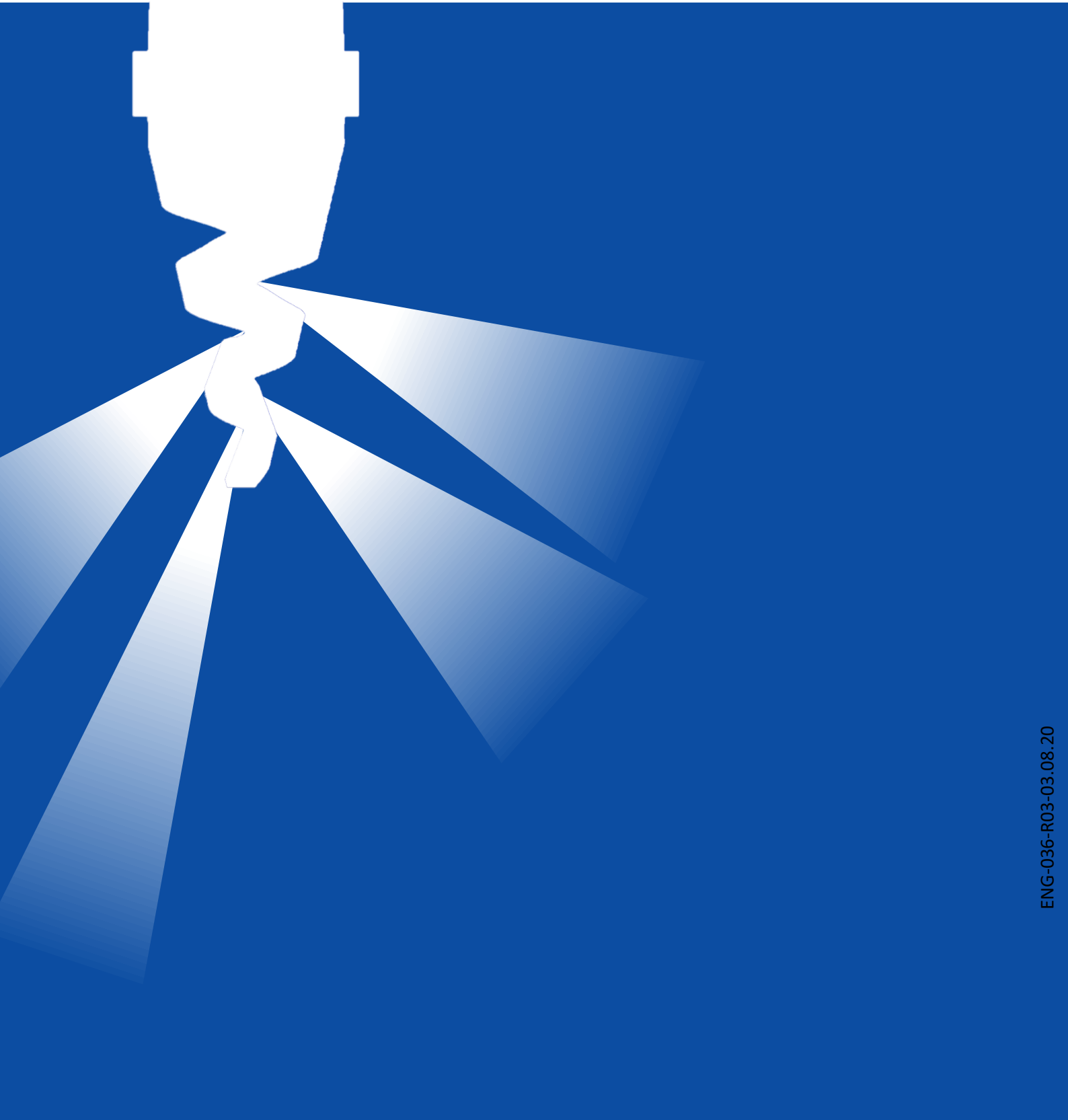
α	Spray coverage @ 250 mm
60°	280 mm



Spray angle (α)	Code	Connection [inch]	\varnothing B [mm]	\varnothing E [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0	2.0	3.0	5.0	7.0	10.0
60°	3S QPHA 10. 060	1/4"	0.89	0.64	-	0.54	0.62	0.74	0.94	1.1	1.3
	3S QPHA 15. 060	1/4"	1.1	0.64	0.49	0.81	0.93	1.1	1.4	1.7	1.9
	3S QPHA 20. 060	1/4"	1.2	1.0	0.65	1.1	1.2	1.5	1.9	2.2	2.6
	3S QPHA 30. 060	1/4"	1.5	1.0	0.98	1.6	1.9	2.2	2.8	3.3	3.9

CHAPTER 4


◆◆ Spiral Nozzles



Spiral Nozzles

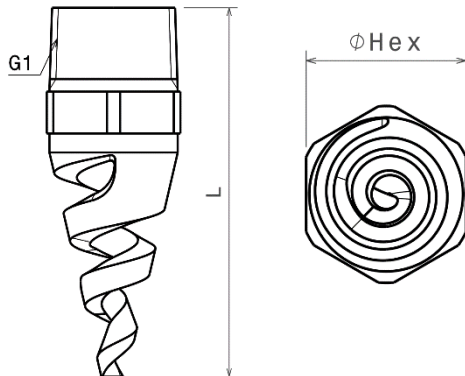
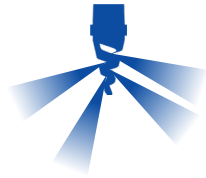
Selection Guide



Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 4B TF	High Flow Up to 10000 liters per Minute	Standard Pressure Up to 20 bar	Wide Spray Angle 60° - 90° - 120° - 150° - 170°	Quenching Scrubbing Fire Protection Humidification Dust Control Cooling Aeration	49 - 51

SPADFLOW 4B TF

Clog-Resistance Cone Nozzle



G1	Connection Type			Dimensions [mm]			Weight
	BSPT	BSPP	NPT	L ₁	L ₂	Hex	
1/8"	018T	018P	018N	42.9	42.9	14.3	28 gr
1/8"	01/8T	018P	018N	42.9	55.6	14.3	28 gr
1/4"	01/4T	014P	014N	47.6	47.6	14.3	35 gr
1/4"	01/4T	014P	014N	47.6	60.3	14.3	35 gr
3/8"	03/8T	018P	038N	47.6	60.5	17.5	46 gr
1/2"	01/2T	012P	012N	63.5	77.7	22.2	85 gr
3/4"	03/4T	034P	034N	69.9	88.9	28.6	156 gr
1"	100T	100P	100N	92.1	111	34.9	241 gr
1 1/2"	112T	112P	112N	111	137	50.8	624 gr
1 1/2"	112T	112P	112N	111	143	50.8	624 gr
2"	200T	200P	200N	143	175	63.5	1300 gr
2"	200T	200P	200N	176	178	63.5	1530 gr
3"	300T	300P	300N	219	235	88.9	3230 gr
4"	400T	400P	400N	257	-	114	4790 gr

L1 refer to 60°, 90°, and 120°

L2 refer to 150° and 170°

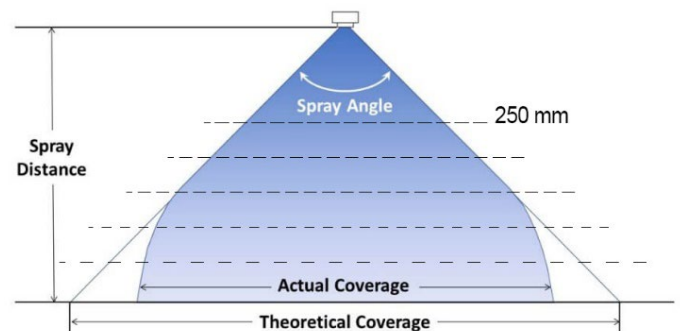
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage @ 250 mm
60°	280
90°	500
120°	850
150°	1850
170°	5500

Properties:

- One-Piece Construction
- No Internal Parts
- Passes Particles Equal to Orifice Size
- Large Free Cross Section
- Fine Atomization
- Clog-Resistant Performance
- High Discharge Velocity
- High Energy Efficiency





SPADFLOW 4B TF

Clog-Resistance Cone Nozzle



Spray angle (α)	Code	Connection [inch]	B Ø [mm]	E Ø [mm]	Flow rate [l/min]							
					P [bar]							
					0.5	0.7	1.0 <i>K factor</i>	2.0	3.0	5.0	10.0	20.0
60°	4B TF 06 . 060	1/8"-1/4"-3/8"	2.38	2.38	2.26	2.67	3.19	4.5	5.5	7.1	10.1	14.3
	4B TF 08 . 060	1/8"-1/4"-3/8"	3.18	3.18	4.19	4.96	5.93	8.4	10.3	13.2	18.7	26.5
	4B TF 10 . 060	1/4"-3/8"	3.97	3.18	6.45	7.63	9.12	12.9	15.8	20.4	28.8	40.8
	4B TF 12 . 060	3/8"	4.76	3.18	9.67	11.4	13.7	19.3	23.7	30.6	43.2	61.1
	4B TF 14 . 060	3/8"	5.56	3.18	13.1	15.4	18.5	26.1	32.0	41.3	58.4	82.6
	4B TF 16 . 060	3/8"	6.35	3.18	17.1	20.2	24.2	34.2	41.8	54.0	76.4	108
	4B TF 20 . 060	3/8"	7.94	3.18	26.6	31.5	37.6	53.2	65.1	84.1	119	168
	4B TF 24 . 060	1/2"	9.53	4.76	38.8	46.0	54.9	77.7	95.1	123	174	246
	4B TF 28 . 060	1/2"	11.1	4.76	53.2	62.9	75.2	106	130	168	238	336
	4B TF 32 . 060	3/4"	12.7	4.76	67.7	80.1	95.7	135	166	214	303	428
	4B TF 40 . 060	1"	15.9	6.35	108	128	153	216	264	341	483	683
	4B TF 48 . 060	1"	19.1	6.35	153	181	216	306	375	484	685	968
	4B TF 56 . 060	1 1/2"	22.2	7.94	208	246	294	416	509	657	930	1320
	4B TF 64 . 060	1 1/2"	25.4	7.94	272	322	385	545	667	861	1220	1720
	4B TF 72 . 060	1 1/2"	28.6	7.94	309	366	438	619	758	978	1380	1960
	4B TF 88 . 060	2"	34.9	11.1	451	534	638	902	1110	1430	2020	2850
4B TF 96 . 060	2"	38.1	11.1	570	674	806	1140	1400	1800	2550	3600	
4B TF 112 . 060	3"	44.5	14.3	825	976	1170	1650	2020	2610	3690	5220	
4B TF 128 . 060	3"	50.8	14.3	1090	1290	1550	2190	2680	3460	4891	6920	
4B TF 160 . 060	4"	63.5	15.9	1690	2000	2390	3380	4140	5350	7570	10700	
90°	4B TF 06 . 090	1/8"-1/4"-3/8"	2.38	2.38	2.26	2.67	3.19	4.5	5.5	7.1	10.1	14.3
	4B TF 08 . 090	1/8"-1/4"-3/8"	3.18	3.18	4.19	4.96	5.93	8.4	10.3	13.2	18.7	26.5
	4B TF 10 . 090	1/4"-3/8"	3.97	3.18	6.45	7.63	9.12	12.9	15.8	20.4	28.8	40.8
	4B TF 12 . 090	3/8"	4.76	3.18	9.67	11.4	13.7	19.3	23.7	30.6	43.2	61.1
	4B TF 14 . 090	3/8"	5.56	3.18	13.1	15.4	18.5	26.1	32.0	41.3	58.4	82.6
	4B TF 16 . 090	3/8"	6.35	3.18	17.1	20.2	24.2	34.2	41.8	54.0	76.4	108
	4B TF 20 . 090	3/8"	7.94	3.18	26.6	31.5	37.6	53.2	65.1	84.1	119	168
	4B TF 24 . 090	1/2"	9.53	4.76	38.8	46.0	54.9	77.7	95.1	123	174	246
	4B TF 28 . 090	1/2"	11.1	4.76	53.2	62.9	75.2	106	130	168	238	336
	4B TF 32 . 090	3/4"	12.7	4.76	67.7	80.1	95.7	135	166	214	303	428
	4B TF 40 . 090	1"	15.9	6.35	108	128	153	216	264	341	483	683
	4B TF 48 . 090	1"	19.1	6.35	153	181	216	306	375	484	685	968
	4B TF 56 . 090	1 1/2"	22.2	7.94	208	246	294	416	509	657	930	1320
	4B TF 64 . 090	1 1/2"	25.4	7.94	272	322	385	545	667	861	1220	1720
	4B TF 72 . 090	1 1/2"	28.6	7.94	309	366	438	619	758	978	1380	1960
	4B TF 88 . 090	2"	34.9	11.1	451	534	638	902	1110	1430	2020	2850
4B TF 96 . 090	2"	38.1	11.1	570	674	806	1140	1400	1800	2550	3600	
4B TF 112 . 090	3"	44.5	14.3	825	976	1170	1650	2020	2610	3690	5220	
4B TF 128 . 090	3"	50.8	14.3	1090	1290	1550	2190	2680	3460	4891	6920	
4B TF 160 . 090	4"	63.5	15.9	1690	2000	2390	3380	4140	5350	7570	10700	
120°	4B TF 06 . 120	1/8"-1/4"-3/8"	2.38	2.38	2.26	2.67	3.19	4.5	5.5	7.1	10.1	14.3
	4B TF 08 . 120	1/8"-1/4"-3/8"	3.18	3.18	4.19	4.96	5.93	8.4	10.3	13.2	18.7	26.5
	4B TF 10 . 120	1/4"-3/8"	3.97	3.18	6.45	7.63	9.12	12.9	15.8	20.4	28.8	40.8
	4B TF 12 . 120	3/8"	4.76	3.18	9.67	11.4	13.7	19.3	23.7	30.6	43.2	61.1
	4B TF 14 . 120	3/8"	5.56	3.18	13.1	15.4	18.5	26.1	32.0	41.3	58.4	82.6
	4B TF 16 . 120	3/8"	6.35	3.18	17.1	20.2	24.2	34.2	41.8	54.0	76.4	108
	4B TF 20 . 120	3/8"	7.94	3.18	26.6	31.5	37.6	53.2	65.1	84.1	119	168
	4B TF 24 . 120	1/2"	9.53	4.76	38.8	46.0	54.9	77.7	95.1	123	174	246
	4B TF 28 . 120	1/2"	11.1	4.76	53.2	62.9	75.2	106	130	168	238	336
	4B TF 32 . 120	3/4"	12.7	4.76	67.7	80.1	95.7	135	166	214	303	428
	4B TF 40 . 120	1"	15.9	6.35	108	128	153	216	264	341	483	683
	4B TF 48 . 120	1"	19.1	6.35	153	181	216	306	375	484	685	968
	4B TF 56 . 120	1 1/2"	22.2	7.94	208	246	294	416	509	657	930	1320
	4B TF 64 . 120	1 1/2"	25.4	7.94	272	322	385	545	667	861	1220	1720
	4B TF 72 . 120	1 1/2"	28.6	7.94	309	366	438	619	758	978	1380	1960
	4B TF 88 . 120	2"	34.9	11.1	451	534	638	902	1110	1430	2020	2850
4B TF 96 . 120	2"	38.1	11.1	570	674	806	1140	1400	1800	2550	3600	
4B TF 112 . 120	3"	44.5	14.3	825	976	1170	1650	2020	2610	3690	5220	
4B TF 128 . 120	3"	50.8	14.3	1090	1290	1550	2190	2680	3460	4891	6920	
4B TF 160 . 120	4"	63.5	15.9	1690	2000	2390	3380	4140	5350	7570	10700	



SPADFLOW 4B TF

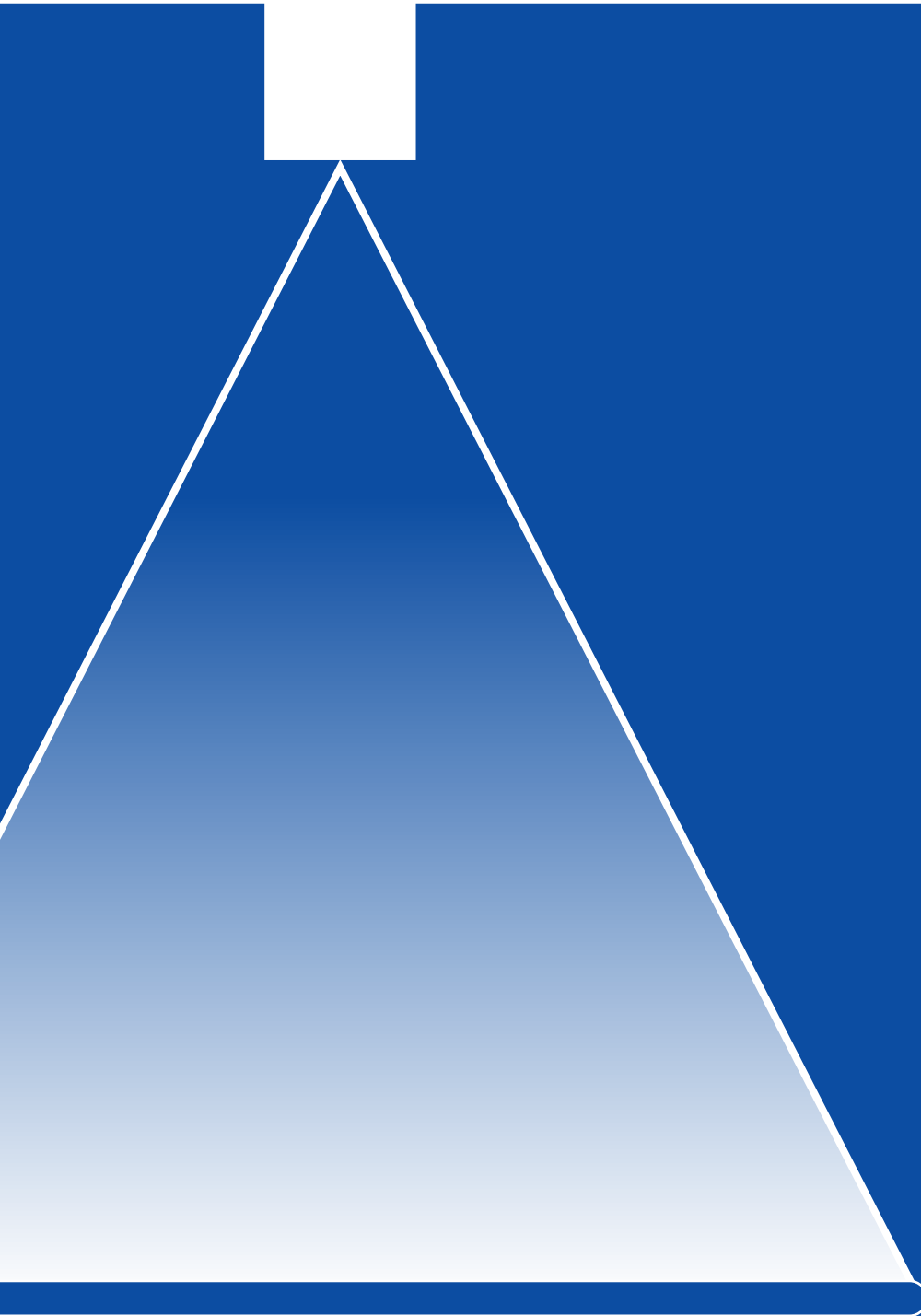
Clog-Resistance Cone Nozzle



Spray angle (α)	Code	Connection [inch]	B Ø [mm]	E Ø [mm]	Flow rate [l/min]							
					P [bar]							
					0.5	0.7	1.0 <i>K factor</i>	2.0	3.0	5.0	10.0	20.0
150°	4B TF 06 . 150	1/8"-1/4"	2.38	2.38	2.26	2.67	3.19	4.5	5.5	7.1	10.1	14.3
	4B TF 08 . 150	1/8"-1/4"	3.18	3.18	4.19	4.96	5.93	8.4	10.3	13.2	18.7	26.5
	4B TF 10 . 150	1/4"	3.97	3.18	6.45	7.63	9.12	12.9	15.8	20.4	28.8	40.8
	4B TF 12 . 150	3/8"	4.76	3.18	9.67	11.4	13.7	19.3	23.7	30.6	43.2	61.1
	4B TF 14 . 150	3/8"	5.56	3.18	13.1	15.4	18.5	26.1	32.0	41.3	58.4	82.6
	4B TF 16 . 150	3/8"	6.35	3.18	17.1	20.2	24.2	34.2	41.8	54.0	76.4	108
	4B TF 20 . 150	3/8"	7.94	3.18	26.6	31.5	37.6	53.2	65.1	84.1	119	168
	4B TF 24 . 150	1/2"	9.53	4.76	38.8	46.0	54.9	77.7	95.1	123	174	246
	4B TF 28 . 150	1/2"	11.1	4.76	53.2	62.9	75.2	106	130	168	238	336
	4B TF 32 . 150	3/4"	12.7	4.76	67.7	80.1	95.7	135	166	214	303	428
	4B TF 40 . 150	1"	15.9	6.35	108	128	153	216	264	341	483	683
	4B TF 48 . 150	1"	19.1	6.35	153	181	216	306	375	484	685	968
	4B TF 56 . 150	1 1/2"	22.2	7.94	208	246	294	416	509	657	930	1320
	4B TF 64 . 150	1 1/2"	25.4	7.94	272	322	385	545	667	861	1220	1720
	4B TF 72 . 150	1 1/2"	28.6	7.94	309	366	438	619	758	978	1380	1960
	4B TF 88 . 150	2"	34.9	11.1	451	534	638	902	1110	1430	2020	2850
4B TF 96 . 150	2"	38.1	11.1	570	674	806	1140	1400	1800	2550	3600	
4B TF 112 . 150	3"	44.5	14.3	825	976	1170	1650	2020	2610	3690	5220	
4B TF 128 . 150	3"	50.8	14.3	1090	1290	1550	2190	2680	3460	4891	6920	
170°	4B TF 06 . 170	1/8"-1/4"	2.38	2.38	2.26	2.67	3.19	4.5	5.5	7.1	10.1	14.3
	4B TF 08 . 170	1/8"-1/4"	3.18	3.18	4.19	4.96	5.93	8.4	10.3	13.2	18.7	26.5
	4B TF 10 . 170	1/4"	3.97	3.18	6.45	7.63	9.12	12.9	15.8	20.4	28.8	40.8
	4B TF 12 . 170	3/8"	4.76	3.18	9.67	11.4	13.7	19.3	23.7	30.6	43.2	61.1
	4B TF 14 . 170	3/8"	5.56	3.18	13.1	15.4	18.5	26.1	32.0	41.3	58.4	82.6
	4B TF 16 . 170	3/8"	6.35	3.18	17.1	20.2	24.2	34.2	41.8	54.0	76.4	108
	4B TF 20 . 170	3/8"	7.94	3.18	26.6	31.5	37.6	53.2	65.1	84.1	119	168
	4B TF 24 . 170	1/2"	9.53	4.76	38.8	46.0	54.9	77.7	95.1	123	174	246
	4B TF 28 . 170	1/2"	11.1	4.76	53.2	62.9	75.2	106	130	168	238	336
	4B TF 32 . 170	3/4"	12.7	4.76	67.7	80.1	95.7	135	166	214	303	428
	4B TF 40 . 170	1"	15.9	6.35	108	128	153	216	264	341	483	683
	4B TF 48 . 170	1"	19.1	6.35	153	181	216	306	375	484	685	968
	4B TF 56 . 170	1 1/2"	22.2	7.94	208	246	294	416	509	657	930	1320
	4B TF 64 . 170	1 1/2"	25.4	7.94	272	322	385	545	667	861	1220	1720
	4B TF 72 . 170	1 1/2"	28.6	7.94	309	366	438	619	758	978	1380	1960
	4B TF 88 . 170	2"	34.9	11.1	451	534	638	902	1110	1430	2020	2850
4B TF 96 . 170	2"	38.1	11.1	570	674	806	1140	1400	1800	2550	3600	
4B TF 112 . 170	3"	44.5	14.3	825	976	1170	1650	2020	2610	3690	5220	
4B TF 128 . 170	3"	50.8	14.3	1090	1290	1550	2190	2680	3460	4891	6920	

CHAPTER 5







◆◆ Flat Fan Nozzles



Flat Fan Nozzles

Selection Guide









Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 5L 632	Low Flow Up to 50 liters per Minute	High Pressure Up to 10 bar	Narrow to Wide Spray Angle 20° - 30° - 45° - 60° - 75° - 90° - 120°	Spray Cleaning Surface Treatment Filter Cleaning Belt Cleaning Lubrication Coating	55 – 57
 5L 633	Standard Flow Up to 120 liters per Minute	Standard Pressure Up to 10 bar	Standard Spray Angle 60°	Spray Cleaning Surface Treatment Filter Cleaning Belt Cleaning Lubrication Coating	55 - 57
 5L 660	Standard Flow Up to 20 liters per Minute	Standard Pressure Up to 10 bar	Narrow to Wide Spray Angle 20° - 30° - 45° - 60° - 75° - 90° - 120°	Cleaning Installation Cooling Headers Spray Pipes Roll Cooling Cooling of Rolled Stock	58 – 59
 5L 664	Standard Flow Up to 50 liters per Minute	Standard Pressure Up to 10 bar	Narrow to Wide Spray Angle 20° - 30° - 45° - 60° - 75° - 90° - 120°	Cleaning Installation Cooling Headers Spray Pipes Roll Cooling Cooling of Rolled Stock	60 - 61
 5L 665	Standard Flow Up to 150 liters per Minute	Standard Pressure Up to 10 bar	Narrow to Wide Spray Angle 30° - 45° - 60° - 75° - 90° - 120°	Cleaning Installation Cooling Headers Spray Pipes Roll Cooling Cooling of Rolled Stock	60 - 61
 5B NF	High Flow Up to 3000 liters per Minute	Standard Pressure Up to 30 bar	Narrow to Wide Spray Angle 15° - 30° - 50° - 65° - 80° - 90° - 110° - 120°	Applying Additives Dust Removal Car Wash Coating Process Fire Protection Wall Lubrication Roll Cooling Washing Conveyor	62 – 66

Flat Fan Nozzles

Selection Guide

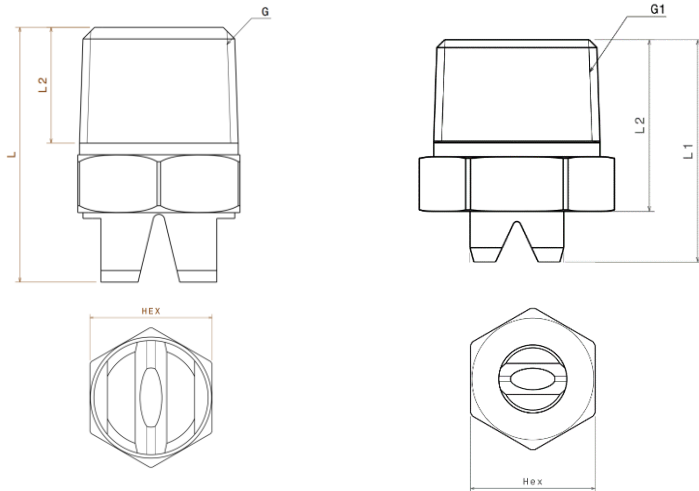


Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 5L 602	Standard Flow Up to 90 liters per Minute	High Pressure Up to 200 bar	Narrow to Standard Spray Angle 20° - 30° - 40° - 45° - 60° - 80°	Spray Cleaning Surface Treatment Filter Cleaning Belt Cleaning Lubrication Coating	67 - 70
 5L 608	Standard Flow Up to 90 liters per Minute	High Pressure Up to 200 bar	Narrow to Standard Spray Angle 20° - 30° - 40° - 45° - 60° - 80°	Spray Cleaning Surface Treatment Filter Cleaning Belt Cleaning Lubrication Coating	71 - 73
 5L 652	Standard Flow Up to 40 liters per Minute	Standard Pressure Up to 10 bar	Narrow to Wide Spray Angle 20° - 30° - 45° - 60° - 75° - 90° - 120°	Spray Cleaning Surface Treatment Filter Cleaning Belt Cleaning Lubrication Coating	74 - 76
 5L 656	Standard Flow Up to 60 liters per Minute	Standard Pressure Up to 10 bar	Narrow to Wide Spray Angle 20° - 30° - 45° - 60° - 90° - 120°	Cleaning Installation Cooling Headers Spray Pipes Roll Cooling Cooling of Rolled Stock Gravel Washing	74 - 76
 5L 657	Standard Flow Up to 90 liters per Minute	Standard Pressure Up to 10 bar	Narrow to Wide Spray Angle 20° - 30° - 45° - 60° - 90° - 120°	Cleaning Installation Cooling Headers Spray Pipes Roll Cooling Cooling of Rolled Stock Gravel Washing	77 - 78
 5L 652 (HP)	Standard Flow Up to 90 liters per Minute	High Pressure Up to 200 bar	Narrow to Standard Spray Angle 20° - 30° - 40° - 45° - 60° - 80°	Spray Cleaning Surface Treatment Filter Cleaning Belt Cleaning Lubrication Coating	79 - 81



SPADFLOW 5L 632/633

Widespread Flat-Fan Nozzle



5L 632 Series

5L 633 Series

G1	Thread Type			Dimensions [mm]				Weight
	BSPT	BSPP	NPT	L ₁	L ₂	Flat	Hex	
1/8"	018T	018P	018T	22.0	6.5	10	14	17 gr
1/4"	014T	014P	014T	22.0	9.7	10	14	20 gr
3/8"	038T	038P	038T	22.0	10.1	-	17	30 gr
1/2"	012T	012P	012T	27.0	13.2	-	22	40 gr

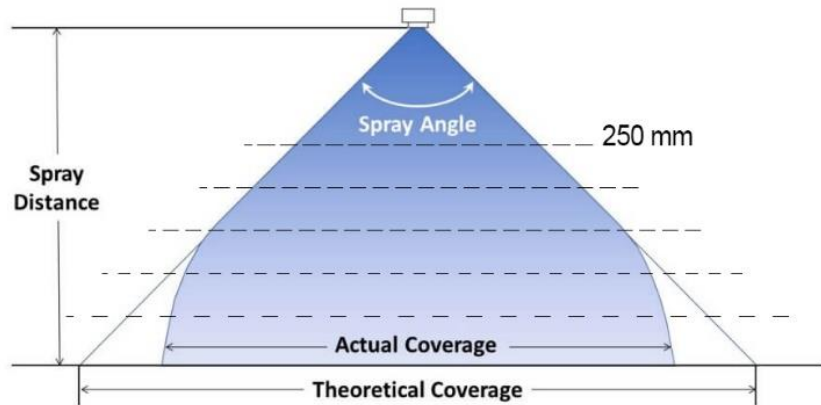
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- One - Piece Construction
- Uniform, Parabolic Liquid Distribution
- Stable Spray Angle
- Tapered, Self-Sealing Thread

α	Spray coverage @ 250 mm
20°	85 mm
30°	120 mm
45°	170 mm
60°	290 mm
75°	380 mm
90°	500 mm
120°	910 mm



Spray angle (α)	Code	Connection [inch]	A \varnothing [mm]	E \varnothing [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0	2.0	3.0	5.0	7.0	10.0
20°	5L 632 30 . 020	1/8"-1/4"	0.70	0.60	0.16	0.23	0.32	0.39	0.51	0.60	0.72
	5L 632 36 . 020	1/8"-1/4"	1.00	0.80	0.31	0.44	0.63	0.77	1.00	1.18	1.40
	5L 632 44 . 020	1/8"-1/4"	1.35	1.10	0.62	0.88	1.25	1.53	1.98	2.34	2.80
	5L 632 48 . 020	1/8"-1/4"	1.50	1.20	0.80	1.13	1.60	1.96	2.53	2.99	3.58
30°	5L 632 30 . 030	1/8"-1/4"	0.60	0.50	0.16	0.23	0.32	0.39	0.51	0.60	0.72
	5L 632 36 . 030	1/8"-1/4"	1.00	0.70	0.31	0.44	0.63	0.77	1.00	1.18	1.40
	5L 632 40 . 030	1/8"-1/4"	1.20	0.90	0.50	0.71	1.00	1.23	1.58	1.87	2.24



SPADFLOW 5L 632/633

Widespread Flat-Fan Nozzle

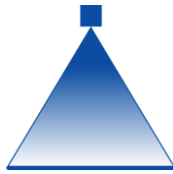


Spray angle (α)	Code	Connection [inch]	A Ø [mm]	E Ø [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0	2.0	3.0	5.0	7.0	10.0
30°	5L 632 48 . 030	1/8"-1/4"	1.50	1.10	0.80	1.13	1.60	1.96	2.53	2.99	3.58
	5L 632 56 . 030	1/8"-1/4"	2.00	1.50	1.25	1.77	2.50	3.06	3.95	4.68	5.59
	5L 632 64 . 030	1/4"	2.50	1.80	2.00	2.83	4.00	4.90	6.33	7.48	8.94
	5L 632 72 . 030	1/4"	3.00	2.40	3.15	4.46	6.30	7.72	9.96	11.79	14.09
	5L 632 76 . 030	1/4"	3.50	2.70	4.00	5.66	8.00	9.80	12.65	14.97	17.89
	5L 632 80 . 030	1/4"	4.00	3.10	5.00	7.07	10.00	12.25	15.81	18.71	22.36
45°	5L 632 30 . 045	1/8"-1/4"	0.70	0.50	0.16	0.23	0.32	0.39	0.51	0.60	0.72
	5L 632 36 . 045	1/8"-1/4"	1.00	0.60	0.31	0.44	0.63	0.77	1.00	1.18	1.40
	5L 632 40 . 045	1/8"-1/4"	1.20	0.90	0.50	0.71	1.00	1.23	1.58	1.87	2.24
	5L 632 48 . 045	1/8"-1/4"	1.50	1.10	0.80	1.13	1.60	1.96	2.53	2.99	3.58
	5L 632 56 . 045	1/8"-1/4"	2.00	1.40	1.25	1.77	2.50	3.06	3.95	4.68	5.59
	5L 632 64 . 045	1/8"-1/4"	2.50	1.80	2.00	2.83	4.00	4.90	6.33	7.48	8.94
	5L 632 67 . 045	1/4"- 3/8"	2.70	2.00	2.83	3.36	4.75	5.82	7.51	8.89	10.62
	5L 632 72 . 045	1/4"- 3/8"	3.00	2.40	3.15	4.46	6.30	7.72	9.96	11.79	14.09
	5L 632 76 . 045	1/4"- 3/8"	3.50	2.60	4.00	5.66	8.00	9.80	12.65	14.97	17.89
	5L 632 80 . 045	1/4"- 3/8"- 1/2"	4.00	3.00	5.00	7.07	10.00	12.25	15.81	18.71	22.36
	5L 632 84 . 045	1/4"- 1/2"	4.50	3.40	6.25	8.84	12.50	15.31	19.76	23.39	27.95
	5L 632 88 . 045	3/8"	5.00	3.80	8.00	11.31	16.00	19.60	25.30	29.93	35.78
	5L 632 92 . 045	3/8"	5.50	4.20	10.00	14.14	20.00	24.50	31.62	37.42	44.72
5L 632 96 . 045	3/8"	6.00	4.40	12.50	17.68	25.00	30.62	39.53	46.77	55.90	
60°	5L 632 30 . 060	1/8"-1/4"	0.70	0.40	0.16	0.23	0.32	0.39	0.51	0.60	0.72
	5L 632 33 . 060	1/8"-1/4"	0.90	0.50	0.22	0.32	0.45	0.55	0.71	0.84	1.01
	5L 632 36 . 060	1/8"-1/4"	1.00	0.60	0.31	0.44	0.63	0.77	1.00	1.18	1.40
	5L 632 40 . 060	1/8"-1/4"	1.20	0.80	0.50	0.71	1.00	1.23	1.58	1.87	2.24
	5L 632 44 . 060	1/8"-1/4"	1.35	0.90	0.62	0.88	1.25	1.53	1.98	2.34	2.80
	5L 632 48 . 060	1/8"-1/4"	1.50	1.00	0.80	1.13	1.60	1.96	2.53	2.99	3.58
	5L 632 51 . 060	1/8"-1/4"	1.65	1.10	0.95	1.34	1.90	2.33	3.00	3.56	4.25
	5L 632 56 . 060	1/8"-1/4"	2.00	1.30	1.25	1.77	2.50	3.06	3.95	4.68	5.59
	5L 632 60 . 060	1/8"-1/4"	2.20	1.50	1.58	2.23	3.15	3.86	4.98	5.89	7.04
	5L 632 64 . 060	1/4"- 3/8"	2.50	1.60	2.00	2.83	4.00	4.90	6.33	7.48	8.94
	5L 632 67 . 060	1/4"- 3/8"	2.70	1.80	2.38	3.36	4.75	5.82	7.51	8.89	10.62
	5L 632 72 . 060	1/4"- 3/8"	3.00	2.10	3.15	4.46	6.30	7.72	9.96	11.79	14.09
	5L 632 76 . 060	1/4"- 3/8"	3.50	2.30	4.00	5.66	8.00	9.80	12.65	14.97	17.89
	5L 632 80 . 060	1/4"- 1/2"	4.00	2.60	5.00	7.07	10.00	12.25	15.81	18.71	22.36
	5L 632 84 . 060	1/4"- 1/2"	4.50	3.00	6.25	8.84	12.50	15.31	19.76	23.39	27.95
	5L 632 88 . 060	1/4"- 1/2"	5.00	3.40	8.00	11.31	16.00	19.60	25.30	29.93	35.78
	5L 632 92 . 060	1/2"	5.50	4.10	10.00	14.14	20.00	24.50	31.62	37.42	44.72
	5L 632 96 . 060	1/2"	6.00	4.20	12.50	17.68	25.00	30.62	39.53	46.77	55.90
	5L 633 00 . 060	1/2"	7.00	4.80	15.75	22.27	31.50	38.57	49.80	58.92	70.43
	5L 633 04 . 060	1/2"	8.00	5.50	20.00	28.28	40.00	48.99	63.25	74.83	89.44
5L 633 08 . 060	1/2"	9.00	6.80	25.00	35.36	50.00	61.24	79.06	93.54	111.80	
75°	5L 632 14 . 075	1/8"-1/4"	0.20	0.12	-	0.04	0.05	0.06	0.08	0.09	0.11
	5L 632 16 . 075	1/8"-1/4"	0.20	0.14	-	0.05	0.07	0.08	0.10	0.12	0.15
	5L 632 18 . 075	1/8"-1/4"	0.20	0.16	-	0.06	0.08	0.10	0.13	0.15	0.18
	5L 632 21 . 075	1/8"-1/4"	0.40	0.20	-	0.08	0.11	0.14	0.18	0.21	0.25
	5L 632 24 . 075	1/8"-1/4"	0.50	0.30	-	0.12	0.16	0.20	0.26	0.30	0.36
	5L 632 27 . 090	1/8"-1/4"	0.60	0.30	0.11	0.16	0.22	0.27	0.35	0.41	0.49
90°	5L 632 21 . 090	1/8"-1/4"	0.40	0.20	-	0.08	0.11	0.14	0.18	0.21	0.25
	5L 632 27 . 090	1/8"-1/4"	0.60	0.30	0.11	0.16	0.22	0.27	0.35	0.41	0.49
	5L 632 30 . 090	1/8"-1/4"	0.70	0.40	0.16	0.23	0.32	0.39	0.51	0.60	0.72
	5L 632 33 . 090	1/8"-1/4"	0.90	0.50	0.22	0.32	0.45	0.55	0.71	0.84	1.01
	5L 632 36 . 090	1/8"-1/4"	1.00	0.50	0.31	0.44	0.63	0.77	1.00	1.18	1.41
	5L 632 40 . 090	1/8"-1/4"	1.20	0.70	0.50	0.71	1.00	1.23	1.58	1.87	2.24
	5L 632 44 . 090	1/8"-1/4"	1.35	0.80	0.62	0.88	1.25	1.53	1.98	2.34	2.80
	5L 632 48 . 090	1/8"-1/4"	1.50	0.80	0.80	1.13	1.60	1.96	2.53	2.99	3.58
	5L 632 51 . 090	1/8"-1/4"	1.65	0.90	0.95	1.34	1.90	2.33	3.00	3.56	4.25
	5L 632 56 . 090	1/8"-1/4"	2.00	1.10	1.25	1.77	2.50	3.06	3.95	4.68	5.59
	5L 632 60 . 090	1/8"-1/4"	2.20	1.20	1.58	2.23	3.15	3.86	4.98	5.89	7.04
	5L 632 64 . 090	1/4"- 3/8"	2.50	1.30	2.00	2.83	4.00	4.90	6.33	7.48	8.94
	5L 632 67 . 090	1/4"- 3/8"	2.70	1.40	2.38	3.36	4.75	5.82	7.51	8.89	10.62
	5L 632 72 . 090	1/4"- 3/8"	3.00	1.70	3.15	4.46	6.30	7.72	9.96	11.79	14.09



SPADFLOW 5L 632/633

Widespread Flat-Fan Nozzle



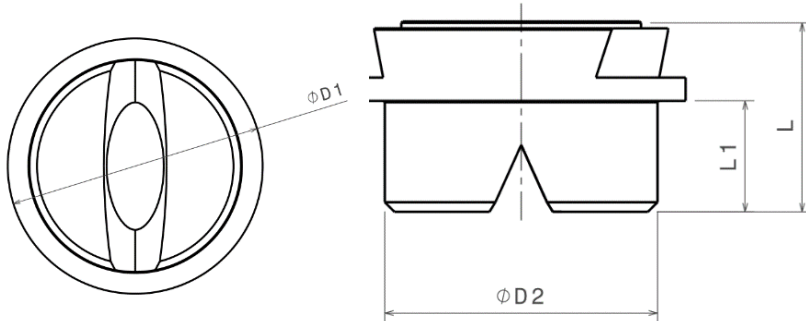
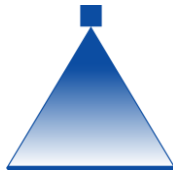
Spray angle (α)	Code	Connection [inch]	A Ø [mm]	E Ø [mm]	Flow rate [l/min]						
					P [bar]						
					0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	7.0	10.0
90°	5L 632 76 . 090	1/4"- 3/8"	3.50	1.90	4.00	5.66	8.00	9.80	12.65	14.97	17.89
	5L 632 80 . 090	1/4"- 1/2"	4.00	2.40	5.00	7.07	10.00	12.25	15.81	18.71	22.36
	5L 632 84 . 090	1/4"- 1/2"	4.50	2.40	6.25	8.84	12.50	15.31	19.76	23.39	27.95
	5L 632 88 . 090	1/4"- 1/2"	5.00	3.10	8.00	11.31	16.00	19.60	25.30	29.93	35.78
	5L 632 92 . 090	1/2"	5.50	3.60	10.00	14.14	20.00	24.50	31.62	37.42	44.72
	5L 632 96 . 090	1/2"	6.00	3.90	12.50	17.68	25.00	30.62	39.53	46.77	55.90
120°	5L 632 18 . 120	1/8"-1/4"	0.35	0.20	-	0.06	0.08	0.10	0.13	0.15	0.18
	5L 632 21 . 120	1/8"-1/4"	0.40	0.20	-	0.08	0.11	0.14	0.18	0.21	0.25
	5L 632 24 . 120	1/8"-1/4"	0.50	0.20	-	0.12	0.16	0.20	0.26	0.30	0.36
	5L 632 27 . 120	1/8"-1/4"	0.60	0.30	-	0.16	0.22	0.27	0.35	0.41	0.49
	5L 632 30 . 120	1/8"-1/4"	0.70	0.30	0.16	0.23	0.32	0.39	0.51	0.60	0.72
	5L 632 33 . 120	1/8"-1/4"	0.90	0.40	0.22	0.32	0.45	0.55	0.71	0.84	1.01
	5L 632 36 . 120	1/8"-1/4"	1.00	0.50	0.31	0.44	0.63	0.77	1.00	1.18	1.41
	5L 632 40 . 120	1/8"-1/4"	1.20	0.60	0.50	0.71	1.00	1.23	1.58	1.87	2.24
	5L 632 44 . 120	1/8"-1/4"	1.35	0.60	0.62	0.88	1.25	1.53	1.98	2.34	2.80
	5L 632 48 . 120	1/8"-1/4"	1.50	0.60	0.80	1.13	1.60	1.96	2.53	2.99	3.58
	5L 632 51 . 120	1/8"-1/4"	1.65	0.90	0.95	1.34	1.90	2.33	3.00	3.56	4.25
	5L 632 56 . 120	1/8"-1/4"	2.00	0.90	1.25	1.77	2.50	3.06	3.95	4.68	5.59
	5L 632 60 . 120	1/8"-1/4"	2.20	1.10	1.58	2.23	3.15	3.86	4.98	5.89	7.04
	5L 632 64 . 120	1/4"- 3/8"	2.50	1.30	2.00	2.83	4.00	4.90	6.33	7.48	8.94
	5L 632 67 . 120	1/4"- 3/8"	2.70	1.40	2.38	3.36	4.75	5.82	7.51	8.89	10.62
	5L 632 72 . 120	1/4"- 3/8"	3.00	1.60	3.15	4.46	6.30	7.72	9.96	11.79	14.09
	5L 632 76 . 120	1/4"- 3/8"	3.50	1.70	4.00	5.66	8.00	9.80	12.65	14.97	17.89
	5L 632 80 . 120	1/4"- 1/2"	4.00	2.00	5.00	7.07	10.00	12.25	15.81	18.71	22.36
	5L 632 84 . 120	1/4"- 1/2"	4.50	2.30	6.25	8.84	12.50	15.31	19.76	23.39	27.95
	5L 632 88 . 120	1/2"	5.00	2.60	8.00	11.31	16.00	19.60	25.30	29.93	35.78
5L 632 92 . 120	1/2"	5.50	2.90	10.00	14.14	20.00	24.50	31.62	37.42	44.72	



SPADFLOW 5L 660

Parabolical Distribution Flat-Fan Nozzle

Webpage
+ STP



G1	Dimensions [mm]				Weight
	L	L1	D1	D2	
Retaining Nut 3/8"	12.0	7.0	14.8	12.0	13 gr

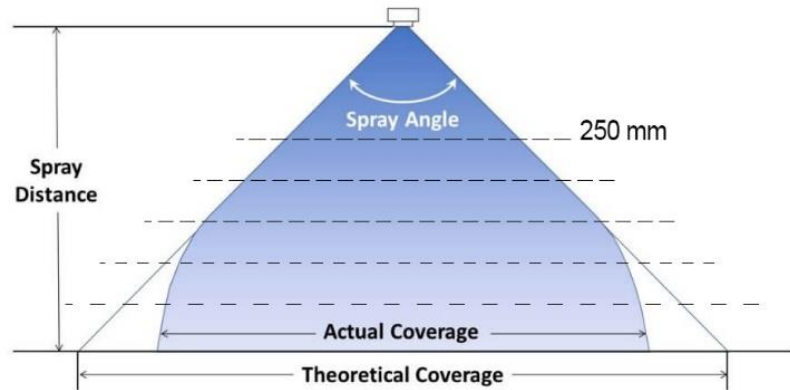
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- One - Piece Construction
- Non-Clogging
- Uniform, Parabolic Liquid Distribution
- Stable Spray Angle

α	Spray coverage @ 250 mm
20°	85 mm
30°	120-130 mm
45°	170-220 mm
60°	260-290 mm
75°	380 mm
90°	420-530 mm
120°	630-900 mm



Spray angle (α)	Code	A ϕ [mm]	E ϕ [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	10.0
20°	5L 660 30 . 020	0.70	0.60	0.16	0.23	0.32	0.39	0.51	0.72
	5L 660 36 . 020	1.00	0.80	0.31	0.44	0.63	0.77	1.00	1.40
	5L 660 44 . 020	1.35	1.10	0.62	0.88	1.25	1.53	1.98	2.80
	5L 660 48 . 020	1.50	1.20	0.80	1.13	1.60	1.96	2.53	3.58
30°	5L 660 30 . 030	0.60	0.50	0.16	0.23	0.32	0.39	0.51	0.72
	5L 660 36 . 030	1.00	0.70	0.31	0.44	0.63	0.77	1.00	1.40
	5L 660 40 . 030	1.20	0.90	0.50	0.71	1.00	1.23	1.58	2.24
	5L 660 48 . 030	1.50	1.10	0.80	1.13	1.60	1.96	2.53	3.57
	5L 660 56 . 030	2.00	1.50	1.25	1.76	2.50	3.06	3.95	5.59



SPADFLOW 5L 660

Parabolical Distribution Flat-Fan Nozzle

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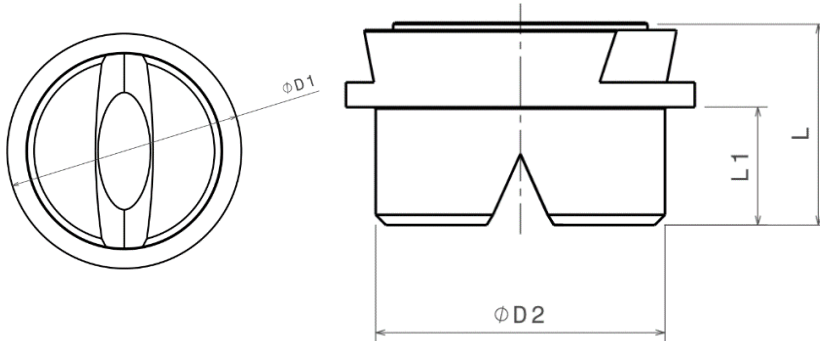
Spray angle (α)	Code	A Ø [mm]	E Ø [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K Factor</i>	2.0	3.0	5.0	10.0
45°	5L 660 30 . 045	0.70	0.50	0.16	0.23	0.32	0.39	0.51	0.72
	5L 660 36 . 045	1.00	0.60	0.31	0.44	0.63	0.77	1.00	1.40
	5L 660 40 . 045	1.20	0.90	0.50	0.71	1.00	1.23	1.58	2.24
	5L 660 48 . 045	1.50	1.10	0.80	1.13	1.60	1.96	2.53	3.58
	5L 660 56 . 045	2.00	1.40	1.25	1.76	2.50	3.06	3.95	5.59
5L 660 64 . 045	2.50	1.80	2.00	2.83	4.00	4.90	6.33	8.94	
60°	5L 660 30 . 060	0.70	0.40	0.16	0.23	0.32	0.39	0.51	0.72
	5L 660 33 . 060	0.90	0.50	0.22	0.32	0.45	0.55	0.71	1.01
	5L 660 36 . 060	1.00	0.60	0.31	0.44	0.63	0.77	1.00	1.40
	5L 660 40 . 060	1.20	0.80	0.50	0.71	1.00	1.23	1.58	2.24
	5L 660 44 . 060	1.35	0.90	0.62	0.88	1.25	1.53	1.98	2.80
	5L 660 48 . 060	1.50	1.00	0.80	1.13	1.60	1.96	2.53	3.58
	5L 660 51 . 060	1.65	1.10	0.95	1.34	1.90	2.33	3.00	4.25
	5L 660 56 . 060	2.00	1.30	1.25	1.77	2.50	3.06	3.95	5.59
	5L 660 60 . 060	2.20	1.50	1.58	2.23	3.15	3.86	4.98	7.04
	5L 660 64 . 060	2.50	1.60	2.00	2.83	4.00	4.90	6.33	8.94
	5L 660 72 . 060	3.00	2.10	3.15	4.46	6.30	7.72	9.96	14.09
5L 660 80 . 060	4.00	2.60	5.00	7.07	10.00	12.25	15.81	22.36	
75°	5L 660 14 . 075	0.20	0.12	-	0.04	0.05	0.06	0.08	0.11
	5L 660 16 . 075	0.20	0.14	-	0.05	0.07	0.08	0.10	0.15
	5L 660 18 . 075	0.20	0.16	-	0.06	0.08	0.10	0.13	0.18
	5L 660 21 . 075	0.50	0.20	-	0.08	0.11	0.14	0.18	0.25
	5L 660 24 . 075	0.50	0.30	-	0.12	0.16	0.20	0.26	0.36
5L 660 27 . 075	0.60	0.30	0.11	0.16	0.22	0.27	0.35	0.49	
90°	5L 660 21 . 090	0.40	0.20	-	0.08	0.11	0.14	0.18	0.25
	5L 660 27 . 090	0.60	0.30	0.11	0.16	0.22	0.27	0.35	0.49
	5L 660 30 . 090	0.70	0.40	0.16	0.23	0.32	0.39	0.51	0.72
	5L 660 33 . 090	0.90	0.50	0.22	0.32	0.45	0.55	0.71	1.01
	5L 660 36 . 090	1.00	0.50	0.31	0.44	0.63	0.77	1.00	1.41
	5L 660 40 . 090	1.20	0.70	0.50	0.71	1.00	1.23	1.58	2.24
	5L 660 44 . 090	1.35	0.80	0.62	0.88	1.25	1.53	1.98	2.80
	5L 660 48 . 090	1.50	0.80	0.80	1.13	1.60	1.96	2.53	3.58
	5L 660 51 . 090	1.65	0.90	0.95	1.34	1.90	2.33	3.00	4.25
	5L 660 56 . 090	2.00	1.10	1.25	1.77	2.50	3.06	3.95	5.59
	5L 660 60 . 090	2.20	1.20	1.58	2.23	3.15	3.86	4.98	7.04
	5L 660 64 . 090	2.50	1.30	2.00	2.83	4.00	4.90	6.33	8.94
	5L 660 67 . 090	2.70	1.40	2.38	3.36	4.75	5.82	7.51	10.62
5L 660 72 . 090	3.00	1.70	3.15	4.46	6.30	7.72	9.96	14.09	
5L 660 80 . 090	4.00	2.40	5.00	7.07	10.00	12.25	15.81	22.36	
120°	5L 660 18 . 120	0.35	0.20	-	0.06	0.08	0.10	0.13	0.18
	5L 660 21 . 120	0.40	0.20	-	0.08	0.11	0.14	0.18	0.25
	5L 660 24 . 120	0.50	0.20	-	0.12	0.16	0.20	0.26	0.36
	5L 660 27 . 120	0.60	0.30	-	0.16	0.22	0.27	0.35	0.49
	5L 660 30 . 120	0.70	0.30	0.16	0.23	0.32	0.39	0.51	0.72
	5L 660 33 . 120	0.90	0.40	0.22	0.32	0.45	0.55	0.71	1.00
	5L 660 36 . 120	1.00	0.40	0.31	0.44	0.63	0.77	1.00	1.41
	5L 660 40 . 120	1.20	0.60	0.50	0.71	1.00	1.23	1.58	2.24
	5L 660 44 . 120	1.35	0.60	0.62	0.88	1.25	1.53	1.98	2.80
	5L 660 48 . 120	1.50	0.60	0.80	1.13	1.60	1.96	2.53	3.58
	5L 660 51 . 120	1.65	0.90	0.95	1.34	1.90	2.33	3.00	4.25
	5L 660 56 . 120	2.00	0.90	1.25	1.77	2.50	3.06	3.95	5.59
	5L 660 60 . 120	2.20	1.10	1.58	2.23	3.15	3.86	4.98	7.04
	5L 660 64 . 120	2.50	1.30	2.00	2.83	4.00	4.90	6.33	8.94
	5L 660 72 . 120	3.00	1.60	3.15	4.46	6.30	7.72	9.96	14.09
5L 660 80 . 120	4.00	2.00	5.00	7.07	10.00	12.25	15.81	22.36	



SPADFLOW 5L 664/665

Parabolical Distribution Flat-Fan Nozzle

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G1	Dimensions [mm]				Weight
	L	L1	D1	D2	
Retaining Nut 3/4"	14.0	8.0	24.0	20.0	13 gr

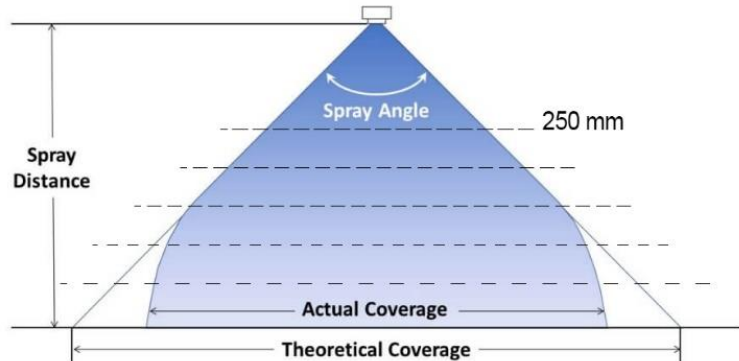
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- One - Piece Construction
- Non-Clogging Nozzle
- Uniform, Parabolic Liquid Distribution
- Stable Spray Angle

α	Spray coverage @ 250 mm
20°	100 mm
30°	140 mm
45°	220 mm
60°	280 mm
90°	520 mm
120°	890 mm



Spray angle (α)	Code	A ϕ [mm]	E ϕ [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	10.0
20°	5L 664 72 . 020	3.00	2.50	3.15	4.45	6.30	7.72	9.96	14.09
	5L 664 80 . 020	4.00	3.20	5.00	7.07	10.00	12.25	15.81	22.36
	5L 664 88 . 020	5.00	4.00	8.00	11.31	16.00	19.60	25.30	35.78
	5L 664 92 . 020	5.50	4.40	10.00	14.14	20.00	24.49	31.62	44.72
	5L 664 96 . 020	6.00	5.10	12.50	17.68	25.00	30.62	39.53	55.90
30°	5L 664 72 . 030	3.00	2.40	3.15	4.45	6.30	7.72	9.96	14.09
	5L 664 76 . 030	3.50	2.70	4.00	5.66	8.00	9.80	12.65	17.89
	5L 664 80 . 030	4.00	3.10	5.00	7.07	10.00	12.25	15.81	22.36
	5L 664 88 . 030	5.00	4.00	8.00	11.31	16.00	19.60	25.30	35.78
	5L 664 92 . 030	5.50	4.40	10.00	14.14	20.00	24.49	31.62	44.72
	5L 664 96 . 030	6.00	5.00	12.50	17.68	25.00	30.62	39.53	55.90
	5L 665 04 . 030	8.00	6.40	20.00	28.28	40.00	48.99	63.25	89.44
5L 665 12 . 030	10.00	8.20	31.50	44.55	63.00	77.16	99.61	140.87	



SPADFLOW 5L 664/665

Parabolical Distribution Flat-Fan Nozzle

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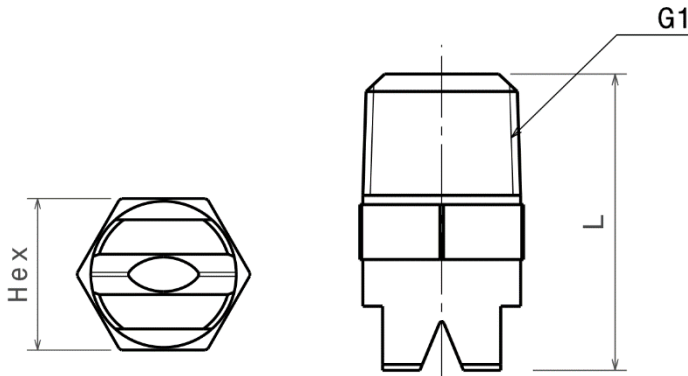


Spray angle (α)	Code	A Ø [mm]	E Ø [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K Factor</i>	2.0	3.0	5.0	10.0
45°	5L 664 72 . 045	3.00	2.40	3.15	4.45	6.30	7.72	9.96	14.09
	5L 664 76 . 045	3.50	2.60	4.00	5.66	8.00	9.80	12.65	17.89
	5L 664 80 . 045	4.00	3.00	5.00	7.07	10.00	12.25	15.81	22.36
	5L 664 84 . 045	4.50	3.40	6.25	8.84	12.50	15.31	19.76	27.95
	5L 664 88 . 045	5.00	3.80	8.00	11.31	16.00	19.60	25.30	35.78
	5L 664 92 . 045	5.50	4.20	10.00	14.14	20.00	24.49	31.62	44.72
	5L 664 96 . 045	6.00	4.40	12.50	17.68	25.00	30.62	39.53	55.90
	5L 665 04 . 045	8.00	5.90	20.00	28.28	40.00	48.99	63.25	89.44
60°	5L 664 72 . 060	3.00	2.10	3.15	4.45	6.30	7.72	9.96	14.09
	5L 664 76 . 060	3.50	2.30	4.00	5.66	8.00	9.80	12.65	17.89
	5L 664 80 . 060	4.00	2.60	5.00	7.07	10.00	12.25	15.81	22.36
	5L 664 84 . 060	4.50	3.00	6.25	8.84	12.50	15.31	19.76	27.95
	5L 664 88 . 060	5.00	3.40	8.00	11.31	16.00	19.60	25.30	35.78
	5L 664 92 . 060	5.50	4.10	10.00	14.14	20.00	24.49	31.62	44.72
	5L 664 96 . 060	6.00	4.20	12.50	17.68	25.00	30.62	39.53	55.90
	5L 665 04 . 060	8.00	5.50	20.00	28.28	40.00	48.99	63.25	89.44
	5L 665 08 . 060	9.00	6.20	25.00	35.36	50.00	61.24	79.06	111.80
5L 665 12 . 060	10.00	7.40	31.50	44.55	63.00	77.16	99.61	140.87	
90°	5L 664 72 . 090	3.00	1.70	3.15	4.45	6.30	7.72	9.96	14.09
	5L 664 76 . 090	3.50	1.90	4.00	5.66	8.00	9.80	12.65	17.89
	5L 664 80 . 090	4.00	2.40	5.00	7.07	10.00	12.25	15.81	22.36
	5L 664 84 . 090	4.50	2.40	6.25	8.84	12.50	15.31	19.76	27.95
	5L 664 88 . 090	5.00	3.10	8.00	11.31	16.00	19.60	25.30	35.78
	5L 664 92 . 090	5.50	3.60	10.00	14.14	20.00	24.49	31.62	44.72
	5L 664 96 . 090	6.00	3.90	12.50	17.68	25.00	30.62	39.53	55.90
	5L 665 04 . 090	8.00	4.90	20.00	28.28	40.00	48.99	63.25	89.44
5L 665 12 . 090	10.00	6.40	31.50	44.55	63.00	77.16	99.61	140.87	
120°	5L 664 72 . 120	3.00	1.60	3.15	4.45	6.30	7.72	9.96	14.09
	5L 664 76 . 120	3.50	1.70	4.00	5.66	8.00	9.80	12.65	17.89
	5L 664 80 . 120	4.00	2.00	5.00	7.07	10.00	12.25	15.81	22.36
	5L 664 88 . 120	5.00	2.60	8.00	11.31	16.00	19.60	25.30	35.78
	5L 664 92 . 120	5.50	2.90	10.00	14.14	20.00	24.49	31.62	44.72
	5L 664 96 . 120	6.00	3.20	12.50	17.68	25.00	30.62	39.53	55.90
	5L 665 04 . 120	8.00	4.40	20.00	28.28	40.00	48.99	63.25	89.44

SPADFLOW 5B NF

Widespread Flat-Fan Nozzle

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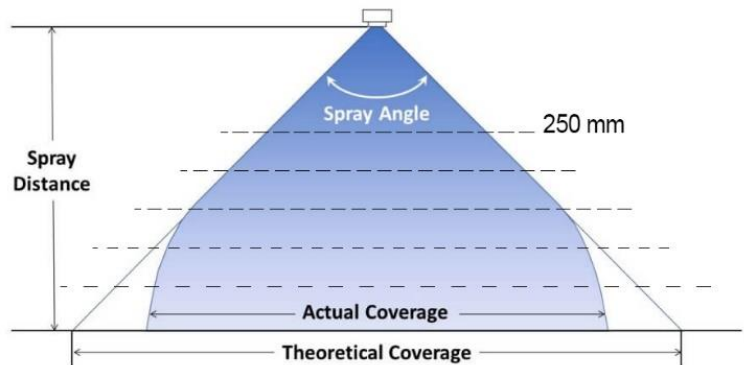


G1	Thread Type			Dimensions [mm]		Weight
	BSPT	BSPP	NPT	L	Hex	
1/8"	018T	018P	018N	22.2	11.1	28.4 gr
1/4"	014T	014P	014N	27.0	14.3	42.5 gr
3/8"	038T	038P	038N	31.8	17.5	56.7 gr
1/2"	012T	012P	012N	38.1	22.2	85.1 gr
3/4"	034T	034P	034N	44.5	28.6	170 gr
1"	100T	100P	100N	55.6	34.9	227 gr
1 1/4"	114T	114P	114N	63.5	44.5	340 gr
1 1/2"	112T	112P	112N	76.2	50.8	567 gr
2"	200T	200P	200N	88.9	63.5	1588 gr

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

α	Spray coverage @ 250 mm
15°	60 mm
30°	120 mm
50°	220 mm
65°	300 mm
80°	400 mm
90°	500 mm
110°	680 mm
120°	800 mm



Spray angle (α)	Code	Connection [inch]	A \varnothing [mm]	Flow rate [l/min]							
				P [bar]							
				0.5	0.7	1.0 <i>K factor</i>	2.0	3.0	5.0	10	30
15°	5B NF01 . 015	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 015	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 015	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 015	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 015	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 015	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 015	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 015	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 015	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 015	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5



SPADFLOW 5B NF

Widespread Flat-Fan Nozzle

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Spray angle (α)	Code	Connection [inch]	A Ø [mm]	Flow rate [l/min]							
				P [bar]							
				0.5	0.7	1.0 <i>K factor</i>	2.0	3.0	5.0	10	30
15°	5B NF15 . 015	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 015	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25
	5B NF30 . 015	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 015	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9
	5B NF50 . 015	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 015	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 015	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 015	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 015	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 015	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 015	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 015	1/2"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 015	1/2"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 015	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 015	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 015	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 015	1 1/4"	18.3	129	153	182	258	316	408	577	999
5B NF1150 . 015	1 1/4"	21.8	185	219	262	371	454	586	829	1440	
5B NF1500 . 015	1 1/2"	24.6	242	286	342	483	592	764	1080	1870	
5B NF2250 . 015	2"	30.2	362	429	513	725	890	1150	1620	2810	
30°	5B NF01 . 030	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 030	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 030	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 030	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 030	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 030	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 030	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 030	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 030	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 030	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5
	5B NF15 . 030	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 030	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25
	5B NF30 . 030	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 030	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9
	5B NF50 . 030	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 030	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 030	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 030	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 030	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 030	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 030	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 030	1/2"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 030	1/2"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 030	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 030	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 030	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 030	1 1/4"	18.3	129	153	182	258	316	408	577	999
5B NF1150 . 030	1 1/4"	21.8	185	219	262	371	454	586	829	1440	
5B NF1500 . 030	1 1/2"	24.6	242	286	342	483	592	764	1080	1870	
5B NF2250 . 030	2"	30.2	362	429	513	725	890	1150	1620	2810	
50°	5B NF01 . 050	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 050	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 050	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 050	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 050	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 050	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 050	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 050	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 050	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 050	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5



SPADFLOW 5B NF

Widespread Flat-Fan Nozzle

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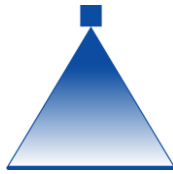
Spray angle (α)	Code	Connection [inch]	A Ø [mm]	Flow rate [l/min]							
				P [bar]							
				0.5	0.7	1.0 <i>K factor</i>	2.0	3.0	5.0	10	30
50°	5B NF15 . 050	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 050	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25
	5B NF30 . 050	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 050	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9
	5B NF50 . 050	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 050	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 050	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 050	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 050	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 050	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 050	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 050	1/2"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 050	1/2"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 050	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 050	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 050	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 050	1 1/4"	18.3	129	153	182	258	316	408	577	999
	5B NF1150 . 050	1 1/4"	21.8	185	219	262	371	454	586	829	1440
5B NF1500 . 050	1 1/2"	24.6	242	286	342	483	592	764	1080	1870	
5B NF2250 . 050	2"	30.2	362	429	513	725	890	1150	1620	2810	
65°	5B NF01 . 065	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 065	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 065	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 065	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 065	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 065	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 065	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 065	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 065	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 065	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5
	5B NF15 . 065	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 065	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25
	5B NF30 . 065	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 065	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9
	5B NF50 . 065	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 065	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 065	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 065	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 065	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 065	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 065	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 065	1/2"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 065	1/2"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 065	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 065	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 065	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 065	1 1/4"	18.3	129	153	182	258	316	408	577	999
	5B NF1150 . 065	1 1/4"	21.8	185	219	262	371	454	586	829	1440
5B NF1500 . 065	1 1/2"	24.6	242	286	342	483	592	764	1080	1870	
5B NF2250 . 065	2"	30.2	362	429	513	725	890	1150	1620	2810	
80°	5B NF01 . 080	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 080	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 080	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 080	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 080	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 080	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 080	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 080	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 080	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 080	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5
	5B NF15 . 080	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 080	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25



SPADFLOW 5B NF

Widespread Flat-Fan Nozzle

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Spray angle (α)	Code	Connection [inch]	A Ø [mm]	Flow rate [l/min]							
				P [bar]							
				0.5	0.7	1.0 <i>K factor</i>	2.0	3.0	5.0	10	30
80°	5B NF30 . 080	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 080	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9
	5B NF50 . 080	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 080	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 080	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 080	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 080	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 080	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 080	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 080	1/2"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 080	1/2"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 080	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 080	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 080	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 080	1 1/4"	18.3	129	153	182	258	316	408	577	999
	5B NF1150 . 080	1 1/4"	21.8	185	219	262	371	454	586	829	1440
	5B NF1500 . 080	1 1/2"	24.6	242	286	342	483	592	764	1080	1870
	5B NF2250 . 080	2"	30.2	362	429	513	725	890	1150	1620	2810
90°	5B NF01 . 090	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 090	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 090	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 090	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 090	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 090	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 090	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 090	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 090	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 090	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5
	5B NF15 . 090	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 090	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25
	5B NF30 . 090	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 090	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9
	5B NF50 . 090	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 090	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 090	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 090	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 090	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 090	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 090	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 090	1/2"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 090	1/2"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 090	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 090	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 090	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 090	1 1/4"	18.3	129	153	182	258	316	408	577	999
	5B NF1150 . 090	1 1/4"	21.8	185	219	262	371	454	586	829	1440
5B NF1500 . 090	1 1/2"	24.6	242	286	342	483	592	764	1080	1870	
5B NF2250 . 090	2"	30.2	362	429	513	725	890	1150	1620	2810	
110°	5B NF01 . 110	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 110	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 110	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 110	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 110	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 110	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 110	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 110	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 110	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 110	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5
	5B NF15 . 110	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 110	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25
	5B NF30 . 110	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 110	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9



SPADFLOW 5B NF

Widespread Flat-Fan Nozzle

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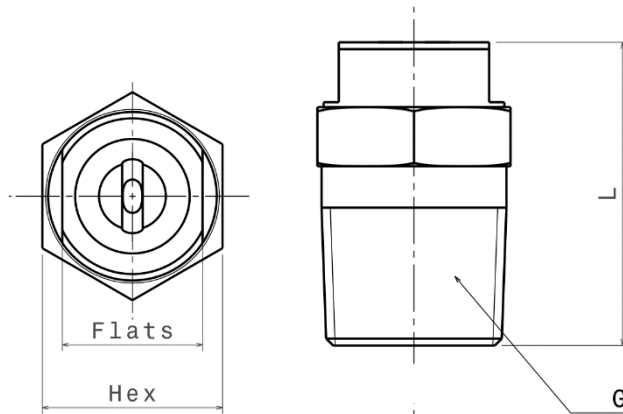


Spray angle (α)	Code	Connection [inch]	A Ø [mm]	Flow rate [l/min]							
				P [bar]							
				0.5	0.7	1.0 <i>K factor</i>	2.0	3.0	5.0	10	30
110°	5B NF50 . 110	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 110	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 110	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 110	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 110	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 110	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 110	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 110	1/2"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 110	1/2"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 110	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 110	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 110	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 110	1 1/4"	18.3	129	153	182	258	316	408	577	999
	5B NF1150 . 110	1 1/4"	21.8	185	219	262	371	454	586	829	1440
	5B NF1500 . 110	1 1/2"	24.6	242	286	342	483	592	764	1080	1870
5B NF2250 . 110	2"	30.2	362	429	513	725	890	1150	1620	2810	
120°	5B NF01 . 120	1/8"-1/4"	0.66	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25
	5B NF015 . 120	1/8"-1/4"	0.79	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87
	5B NF02 . 120	1/8"-1/4"	0.91	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49
	5B NF025 . 120	1/8"-1/4"	1.02	0.4	0.48	0.57	0.81	0.99	1.27	1.8	3.12
	5B NF03 . 120	1/8"-1/4"	1.09	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74
	5B NF04 . 120	1/8"-1/4"	1.32	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99
	5B NF05 . 120	1/8"-1/4"	1.45	0.81	0.95	1.14	1.61	1.97	2.55	3.6	6.24
	5B NF06 . 120	1/8"-1/4"	1.57	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49
	5B NF08 . 120	1/8"-1/4"	1.83	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95
	5B NF10 . 120	1/8"-1/4"-3/8"	2.03	1.61	1.91	2.28	3.22	3.95	5.1	7.21	12.5
	5B NF15 . 120	1/8"-1/4"-3/8"	2.38	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7
	5B NF20 . 120	1/8"-1/4"-3/8"	2.78	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25
	5B NF30 . 120	1/8"-1/4"-3/8"	3.57	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4
	5B NF40 . 120	1/8"-1/4"-3/8"	3.97	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9
	5B NF50 . 120	1/4"-3/8"	4.37	8.06	9.53	11.4	16.1	19.7	25.5	36	62.4
	5B NF60 . 120	1/4"-3/8"-1/2"	4.76	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9
	5B NF70 . 120	1/4"-3/8"-1/2"	5.16	11.3	13.3	16	22.6	27.6	35.7	50.4	87.4
	5B NF80 . 120	3/8"-1/2"	5.56	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9
	5B NF90 . 120	3/8"-1/2"	5.95	14.5	17.2	20.5	29	35.5	45.9	64.9	112
	5B NF100 . 120	3/8"-1/2"	6.35	16.1	19.1	22.8	32.2	39.5	51	72.1	125
	5B NF120 . 120	3/8"-1/2"	6.75	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150
	5B NF150 . 120	3/4"	7.54	24.2	28.6	34.2	48.3	59.2	76.4	108	187
	5B NF200 . 120	3/4"	8.73	32.2	38.1	45.6	64.5	78.9	102	144	250
	5B NF300 . 120	3/4"	10.7	48.3	57.2	68.4	96.7	118	153	216	374
	5B NF400 . 120	3/4"-1"	12.7	64.5	76.3	91.2	129	158	204	288	499
	5B NF750 . 120	1"	17.5	121	143	171	242	296	382	540	936
	5B NF800 . 120	1 1/4"	18.3	129	153	182	258	316	408	577	999
	5B NF1150 . 120	1 1/4"	21.8	185	219	262	371	454	586	829	1440
5B NF1500 . 120	1 1/2"	24.6	242	286	342	483	592	764	1080	1870	
5B NF2250 . 120	2"	30.2	362	429	513	725	890	1150	1620	2810	

SPADFLOW 5L 602

High Pressure Flat-Fan Nozzle

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G1	Thread Type			Dimensions [mm]					Weight
	BSPT	BSPP	NPT	L ₁	L ₂	D	Hex	Flats	
1/4"	014T	014P	014N	22.0	10.0	13.0	14	10	18 gr

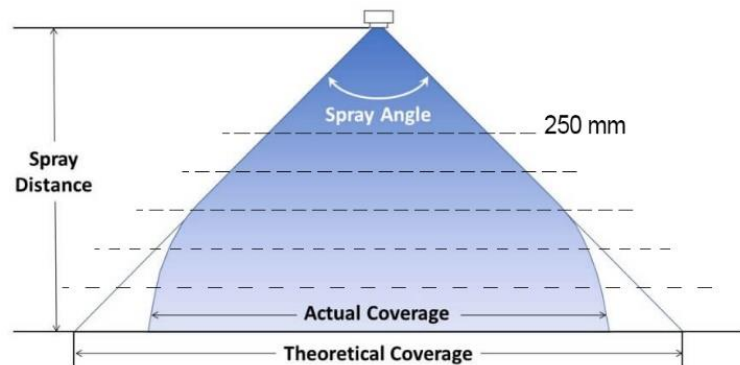
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- Two – Piece Construction
- Internal Part
- Sharp, Uniform Flat Fan Spray
- Extremely Narrow Spray Depth

α	Spray coverage @ 250 mm
20°	85 mm
30°	125 mm
40°	150 mm
45°	170 mm
60°	290 mm
80°	500 mm



Spray angle (α)	Code	Connection** [inch]	General code	A \varnothing [mm]	Flow rate [l/min]						
					P [bar]						
					40	60	80	100	120	150	200
20°	5L 602 36 . 020	1/4"	2002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 602 37 . 020	1/4"	20021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 602 38 . 020	1/4"	20025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 602 39 . 020	1/4"	20028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 602 40 . 020	1/4"	2003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 602 41 . 020	1/4"	20034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 602 44 . 020	1/4"	20038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 602 45 . 020	1/4"	2004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 602 46 . 020	1/4"	20043	1.38	6.2	7.59	8.77	9.8	10.74	12	13.86
	5L 602 47 . 020	1/4"	20045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 602 48 . 020	1/4"	2005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 602 50 . 020	1/4"	20055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 602 52 . 020	1/4"	2006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 602 53 . 020	1/4"	20065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
5L 602 54 . 020	1/4"	2007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57	



SPADFLOW 5L 602

High Pressure Flat-Fan Nozzle

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Spray angle (α)	Code	Connection** [inch]	General code	A Ø [mm]	Flow rate [l/min]						
					P [bar]						
					40	60	80	100	120	150	200
20°	5L 602 55 . 020	1/4"	20075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 602 57 . 020	1/4"	2008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 602 58 . 020	1/4"	20087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 602 59 . 020	1/4"	2009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 602 60 . 020	1/4"	2010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 602 62 . 020	1/4"	2011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
	5L 602 64 . 020	1/4"	20125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29
	5L 602 65 . 020	1/4"	20131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23
	5L 602 66 . 020	1/4"	20139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8
	5L 602 67 . 020	1/4"	2015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35
5L 602 70 . 020	1/4"	20175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
30°	5L 602 36 . 030	1/4"	3002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 602 37 . 030	1/4"	30021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 602 38 . 030	1/4"	30025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 602 39 . 030	1/4"	30028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 602 40 . 030	1/4"	3003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 602 41 . 030	1/4"	30034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 602 44 . 030	1/4"	30038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 602 45 . 030	1/4"	3004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 602 46 . 030	1/4"	30043	1.38	6.2	7.59	8.77	9.8	10.74	12	13.86
	5L 602 47 . 030	1/4"	30045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 602 48 . 030	1/4"	3005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 602 50 . 030	1/4"	30055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 602 52 . 030	1/4"	3006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 602 53 . 030	1/4"	30065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 602 54 . 030	1/4"	3007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 602 55 . 030	1/4"	30075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 602 57 . 030	1/4"	3008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 602 58 . 030	1/4"	30087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 602 59 . 030	1/4"	3009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 602 60 . 030	1/4"	3010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
5L 602 62 . 030	1/4"	3011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45	
5L 602 64 . 030	1/4"	30125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29	
5L 602 65 . 030	1/4"	30131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23	
5L 602 66 . 030	1/4"	30139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8	
5L 602 67 . 030	1/4"	3015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35	
5L 602 70 . 030	1/4"	30175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
40°	5L 602 36 . 040	1/4"	4002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 602 37 . 040	1/4"	40021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 602 38 . 040	1/4"	40025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 602 39 . 040	1/4"	40028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 602 40 . 040	1/4"	4003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 602 41 . 040	1/4"	40034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 602 44 . 040	1/4"	40038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 602 45 . 040	1/4"	4004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 602 47 . 040	1/4"	40045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 602 48 . 040	1/4"	4005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 602 50 . 040	1/4"	40055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 602 52 . 040	1/4"	4006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 602 53 . 040	1/4"	40065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 602 54 . 040	1/4"	4007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 602 55 . 040	1/4"	40075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 602 57 . 040	1/4"	4008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 602 58 . 040	1/4"	40087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 602 59 . 040	1/4"	4009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 602 60 . 040	1/4"	4010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 602 62 . 040	1/4"	4011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
5L 602 64 . 040	1/4"	40125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29	
5L 602 65 . 040	1/4"	40131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23	
5L 602 66 . 040	1/4"	40139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8	



SPADFLOW 5L 602

High Pressure Flat-Fan Nozzle

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Spray angle (α)	Code	Connection** [inch]	General code	A Ø [mm]	Flow rate [l/min]						
					P [bar]						
					40	60	80	100	120	150	200
40°	5L 602 67 . 040	1/4"	4015	2.7	21.62	26.48	30.58	34.19	37.40	41.87	48.35
	5L 602 70 . 040	1/4"	40175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41
	5L 602 72 . 040	1/4"	4020	3.05	28.83	35.31	40.78	40.59	49.94	55.84	64.47
	5L 602 76 . 040	1/4"	4025	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6
	5L 602 79 . 040	1/4"	4030	3.9	43.25	52.97	61.16	68.38	74.91	83.75	96.7
45°	5L 602 36 . 045	1/4"	4502	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 602 37 . 045	1/4"	45021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 602 38 . 045	1/4"	45025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 602 39 . 045	1/4"	45028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 602 40 . 045	1/4"	4503	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 602 41 . 045	1/4"	45034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 602 44 . 045	1/4"	45038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 602 45 . 045	1/4"	4504	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 602 47 . 045	1/4"	45045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 602 48 . 045	1/4"	4505	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 602 50 . 045	1/4"	45055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 602 52 . 045	1/4"	4506	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 602 53 . 045	1/4"	45065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 602 54 . 045	1/4"	4507	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 602 55 . 045	1/4"	45075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 602 57 . 045	1/4"	4508	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 602 58 . 045	1/4"	45087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 602 59 . 045	1/4"	4509	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 602 60 . 045	1/4"	4510	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 602 62 . 045	1/4"	4511	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
	5L 602 64 . 045	1/4"	45125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29
	5L 602 65 . 045	1/4"	45131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23
	5L 602 66 . 045	1/4"	45139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8
	5L 602 67 . 045	1/4"	4515	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35
	5L 602 70 . 045	1/4"	45175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41
5L 602 72 . 045	1/4"	4520	3.05	28.83	35.31	40.78	45.59	49.94	55.84	64.47	
5L 602 76 . 045	1/4"	4525	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6	
5L 602 79 . 045	1/4"	4530	3.9	43.25	52.97	61.16	68.38	74.91	83.75	96.7	
60°	5L 602 36 . 060	1/4"	6002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 602 37 . 060	1/4"	60021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 602 38 . 060	1/4"	60025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 602 39 . 060	1/4"	60028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 602 40 . 060	1/4"	6003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 602 41 . 060	1/4"	60034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 602 45 . 060	1/4"	6004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 602 47 . 060	1/4"	60045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 602 48 . 060	1/4"	6005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 602 50 . 060	1/4"	60055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 602 52 . 060	1/4"	6006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 602 53 . 060	1/4"	60065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 602 54 . 060	1/4"	6007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 602 55 . 060	1/4"	60075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 602 57 . 060	1/4"	6008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 602 58 . 060	1/4"	60087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 602 59 . 060	1/4"	6009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 602 60 . 060	1/4"	6010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 602 62 . 060	1/4"	6011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
	5L 602 64 . 060	1/4"	60125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29
	5L 602 65 . 060	1/4"	60131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23
	5L 602 66 . 060	1/4"	60139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8
	5L 602 67 . 060	1/4"	6015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35
	5L 602 70 . 060	1/4"	60175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41
	5L 602 72 . 060	1/4"	6020	3.05	28.83	35.31	40.78	45.59	49.94	55.84	64.47
5L 602 76 . 060	1/4"	6025	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6	
80°	5L 602 36 . 080	1/4"	8002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 602 37 . 080	1/4"	80021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77



SPADFLOW 5L 602

High Pressure Flat-Fan Nozzle

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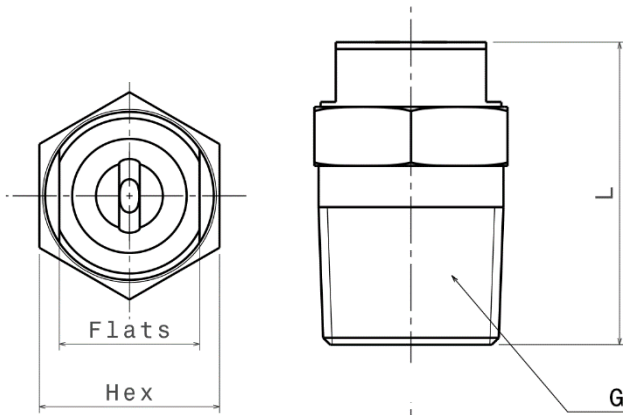
Spray angle (α)	Code	Connection** [inch]	General code	A Ø [mm]	Flow rate [l/min]						
					P [bar]						
					40	60	80	100	120	150	200
80°	5L 602 38 . 080	1/4"	80025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 602 39 . 080	1/4"	80028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 602 40 . 080	1/4"	8003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 602 41 . 080	1/4"	80034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 602 45 . 080	1/4"	8004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 602 47 . 080	1/4"	80045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 602 48 . 080	1/4"	8005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 602 50 . 080	1/4"	80055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 602 52 . 080	1/4"	8006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 602 53 . 080	1/4"	80065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 602 54 . 080	1/4"	8007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 602 55 . 080	1/4"	80075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 602 57 . 080	1/4"	8008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 602 58 . 080	1/4"	80087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 602 59 . 080	1/4"	8009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 602 60 . 080	1/4"	8010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 602 62 . 080	1/4"	8011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
	5L 602 64 . 080	1/4"	80125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29
	5L 602 65 . 080	1/4"	80131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23
	5L 602 66 . 080	1/4"	80139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8
5L 602 67 . 080	1/4"	8015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35	
5L 602 70 . 080	1/4"	80175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
5L 602 72 . 080	1/4"	8020	3.05	28.83	35.31	40.78	45.59	49.94	55.84	64.47	
5L 602 76 . 080	1/4"	8025	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6	



SPADFLOW 5L 608

High Pressure Flat-Fan Nozzle

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G1	Thread Type			Dimensions [mm]					Weight
	BSPT	BSPP	NPT	L1	L2	D	Hex	Flats	
1/8"	018T	018P	018N	22.0	10.0	13.0	14	10	18 gr

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

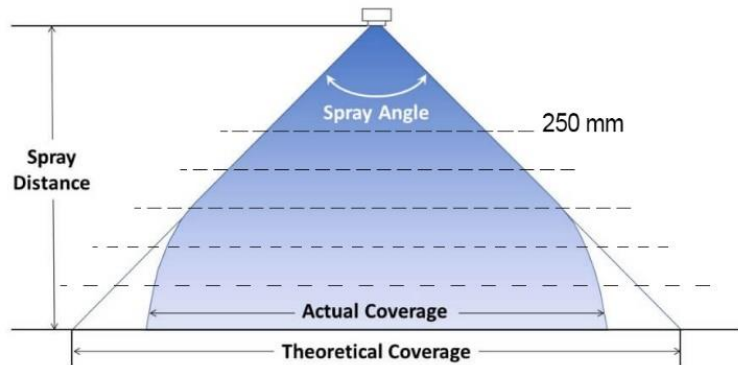
Two – Piece Construction

Internal Part

Sharp, Uniform Flat Fan Spray

Extremely Narrow Spray Depth

α	Spray coverage @ 250 mm
20°	85 mm
30°	125 mm
40°	150 mm
45°	170 mm
60°	290 mm
80°	400 mm



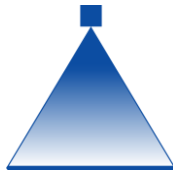
Spray angle (α)	Code	General code	Connection** [inch]	A \varnothing [mm]	Flow rate [l/min]						
					P [bar]						
					40	60	80	100	120	150	200
20°	5L 608 36 . 020	2002	1/8"	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 608 37 . 020	20021	1/8"	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 608 38 . 020	20025	1/8"	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 608 39 . 020	20028	1/8"	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 608 40 . 020	2003	1/8"	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 608 41 . 020	20034	1/8"	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 608 44 . 020	20038	1/8"	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 608 45 . 020	2004	1/8"	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 608 46 . 020	20043	1/8"	1.38	6.2	7.59	8.77	9.8	10.74	12	13.86
	5L 608 47 . 020	20045	1/8"	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 608 48 . 020	2005	1/8"	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 608 50 . 020	20055	1/8"	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 608 52 . 020	2006	1/8"	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35



SPADFLOW 5L 608

High Pressure Flat-Fan Nozzle

Webpage
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Spray angle (α)	Code	General code	Connection** [inch]	A Ø [mm]	Flow rate [l/min]						
					P [bar]						
					40	60	80	100	120	150	200
20°	5L 608 53 . 020	20065	1/8"	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 608 54 . 020	2007	1/8"	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 608 55 . 020	20075	1/8"	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 608 57 . 020	2008	1/8"	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 608 58 . 020	20087	1/8"	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 608 59 . 020	2009	1/8"	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
30°	5L 608 60 . 020	2010	1/8"	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 608 36 . 030	3002	1/8"	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 608 37 . 030	30021	1/8"	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 608 38 . 030	30025	1/8"	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 608 39 . 030	30028	1/8"	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 608 40 . 030	3003	1/8"	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 608 41 . 030	30034	1/8"	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 608 44 . 030	30038	1/8"	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 608 45 . 030	3004	1/8"	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 608 46 . 030	30043	1/8"	1.38	6.2	7.59	8.77	9.8	10.74	12	13.86
	5L 608 47 . 030	30045	1/8"	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 608 48 . 030	3005	1/8"	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 608 50 . 030	30055	1/8"	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 608 52 . 030	3006	1/8"	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 608 53 . 030	30065	1/8"	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 608 54 . 030	3007	1/8"	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 608 55 . 030	30075	1/8"	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 608 57 . 030	3008	1/8"	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
5L 608 58 . 030	30087	1/8"	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04	
5L 608 59 . 030	3009	1/8"	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02	
5L 608 60 . 030	3010	1/8"	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23	
40°	5L 608 36 . 040	40021	1/8"	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 608 37 . 040	40025	1/8"	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 608 38 . 040	40028	1/8"	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 608 39 . 040	4003	1/8"	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 608 40 . 040	40034	1/8"	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 608 41 . 040	40038	1/8"	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 608 44 . 040	4004	1/8"	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 608 45 . 040	40040	1/8"	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 608 47 . 040	4005	1/8"	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 608 48 . 040	40055	1/8"	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 608 50 . 040	4006	1/8"	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 608 52 . 040	40065	1/8"	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 608 53 . 040	4007	1/8"	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 608 54 . 040	40075	1/8"	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 608 55 . 040	4008	1/8"	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 608 57 . 040	40087	1/8"	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 608 58 . 040	4009	1/8"	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 608 59 . 040	4010	1/8"	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
5L 608 60 . 040	40021	1/8"	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23	
45°	5L 608 36 . 045	4502	1/8"	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 608 37 . 045	45021	1/8"	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 608 38 . 045	45025	1/8"	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 608 39 . 045	45028	1/8"	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 608 40 . 045	4503	1/8"	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 608 41 . 045	45034	1/8"	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 608 44 . 045	45038	1/8"	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 608 45 . 045	4504	1/8"	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 608 47 . 045	45045	1/8"	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 608 48 . 045	4505	1/8"	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 608 50 . 045	45055	1/8"	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 608 52 . 045	4506	1/8"	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 608 53 . 045	45065	1/8"	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 608 54 . 045	4507	1/8"	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57



SPADFLOW 5L 608

High Pressure Flat-Fan Nozzle

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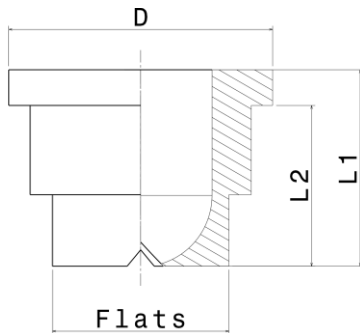
Spray angle (α)	Code	General code	Connection** [inch]	A Ø [mm]	Flow rate [l/min]						
					P [bar]						
					40	60	80	100	120	150	200
	5L 608 55 . 045	45075	1/8"	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 608 57 . 045	4508	1/8"	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 608 58 . 045	45087	1/8"	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 608 59 . 045	4509	1/8"	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 608 60 . 045	4510	1/8"	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
60°	5L 608 36 . 060	6002	1/8"	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 608 37 . 060	60021	1/8"	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 608 38 . 060	60025	1/8"	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 608 39 . 060	60028	1/8"	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 608 40 . 060	6003	1/8"	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 608 41 . 060	60034	1/8"	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 608 45 . 060	6004	1/8"	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 608 47 . 060	60045	1/8"	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 608 48 . 060	6005	1/8"	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 608 50 . 060	60055	1/8"	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 608 52 . 060	6006	1/8"	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 608 53 . 060	60065	1/8"	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 608 54 . 060	6007	1/8"	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 608 55 . 060	60075	1/8"	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 608 57 . 060	6008	1/8"	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
5L 608 58 . 060	60087	1/8"	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04	
5L 608 59 . 060	6009	1/8"	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02	
5L 608 60 . 060	6010	1/8"	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23	
80°	5L 608 36 . 080	8002	1/8"	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 608 37 . 080	80021	1/8"	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 608 38 . 080	80025	1/8"	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 608 39 . 080	80028	1/8"	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 608 40 . 080	8003	1/8"	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 608 41 . 080	80034	1/8"	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 608 45 . 080	8004	1/8"	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 608 47 . 080	80045	1/8"	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 608 48 . 080	8005	1/8"	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 608 50 . 080	80055	1/8"	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 608 52 . 080	8006	1/8"	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 608 53 . 080	80065	1/8"	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 608 54 . 080	8007	1/8"	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 608 55 . 080	80075	1/8"	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 608 57 . 080	8008	1/8"	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
5L 608 58 . 080	80087	1/8"	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04	
5L 608 59 . 080	8009	1/8"	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02	
5L 608 60 . 080	8010	1/8"	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23	



SPADFLOW 5L 652

Low Pressure Flat-Fan Nozzle

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G1	Dimensions [mm]				Weight
	L1	L2	D	Flats	
Retaining Nut 3/8"	11.0	9.0	14.8	10.0	10 gr

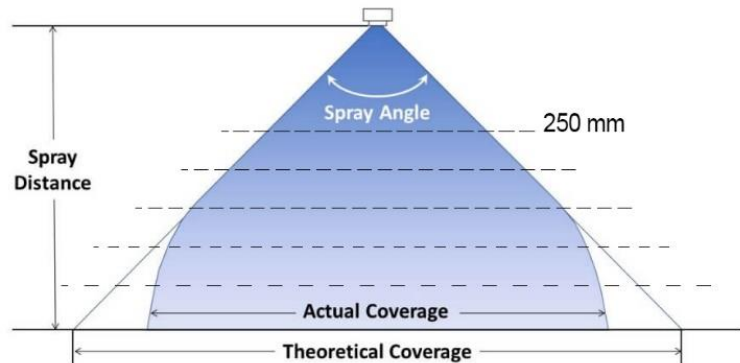
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- Uniform, Parabolic Liquid Distribution
- Stable Spray Angle
- Assembly with Retaining Nut

α	Spray coverage @ 250 mm
20°	85 mm
30°	120-140 mm
45°	170-220 mm
60°	260-290 mm
75°	380 mm
90°	420-540 mm
120°	630-900 mm



Spray angle (α)	Code	A \emptyset [mm]	E \emptyset [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	10.0
20°	5L 652 30 . 020	0.70	0.60	0.16	0.23	0.32	0.39	0.51	0.72
	5L 652 36 . 020	1.00	0.80	0.31	0.44	0.63	0.77	1.00	1.40
	5L 652 44 . 020	1.35	1.10	0.62	0.88	1.25	1.53	1.98	2.80
	5L 652 48 . 020	1.50	1.20	0.80	1.13	1.60	1.96	2.53	3.58
30°	5L 652 30 . 030	0.60	0.50	0.16	0.23	0.32	0.40	0.51	0.72
	5L 652 36 . 030	1.00	0.70	0.32	0.45	0.63	0.77	1.00	1.41
	5L 652 40 . 030	1.20	0.90	0.50	0.71	1.00	1.22	1.58	2.23
	5L 652 48 . 030	1.50	1.10	0.80	1.13	1.60	1.96	2.53	3.58
	5L 652 56 . 030	2.00	1.50	1.25	1.77	2.50	3.06	3.95	5.59
	5L 652 64 . 030	2.50	1.80	2.00	2.83	4.00	4.90	6.33	8.95
	5L 652 72 . 030	3.00	2.40	3.15	4.45	6.30	7.71	9.96	14.09
	5L 652 76 . 030	3.50	2.70	4.00	5.66	8.00	9.80	12.65	17.89
5L 652 80 . 030	4.00	3.10	5.00	7.07	10.00	12.25	15.81	22.36	



SPADFLOW 5L 652

Low Pressure Flat-Fan Nozzle

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Spray angle (α)	Code	A Ø [mm]	E Ø [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K Factor</i>	2.0	3.0	5.0	10.0
45°	5L 652 30 . 045	0.70	0.50	0.16	0.23	0.32	0.40	0.51	0.72
	5L 652 36 . 045	1.00	0.60	0.32	0.45	0.63	0.77	1.00	1.41
	5L 652 40 . 045	1.20	0.90	0.50	0.71	1.00	1.22	1.58	2.23
	5L 652 48 . 045	1.50	1.10	0.80	1.13	1.60	1.96	2.53	3.58
	5L 652 56 . 045	2.00	1.40	1.25	1.77	2.50	3.06	3.95	5.59
	5L 652 64 . 045	2.50	1.80	2.00	2.83	4.00	4.90	6.33	8.95
	5L 652 72 . 045	3.00	2.40	3.15	4.45	6.30	7.71	9.96	14.09
	5L 652 76 . 045	3.50	2.60	4.00	5.66	8.00	9.80	12.65	17.89
5L 652 80 . 045	4.00	3.00	5.00	7.07	10.00	12.25	15.81	22.36	
60°	5L 652 30 . 060	0.70	0.40	0.16	0.23	0.32	0.40	0.51	0.72
	5L 652 33 . 060	0.90	0.50	0.22	0.32	0.45	0.55	0.71	1.00
	5L 652 36 . 060	1.00	0.60	0.32	0.45	0.63	0.77	1.00	1.41
	5L 652 40 . 060	1.20	0.80	0.50	0.71	1.00	1.22	1.58	2.23
	5L 652 44 . 060	1.35	0.90	0.63	0.89	1.25	1.53	1.98	2.80
	5L 652 48 . 060	1.50	1.00	0.80	1.13	1.60	1.96	2.53	3.58
	5L 652 51 . 060	1.65	1.10	0.95	1.34	1.90	2.32	3.00	4.24
	5L 652 56 . 060	2.00	1.30	1.25	1.77	2.50	3.06	3.95	5.59
	5L 652 60 . 060	2.20	1.50	1.57	2.23	3.15	3.86	4.98	7.04
	5L 652 64 . 060	2.50	1.60	2.00	2.83	4.00	4.90	6.33	8.95
	5L 652 67 . 060	2.70	1.80	2.37	3.36	4.75	5.82	7.51	10.62
	5L 652 72 . 060	3.00	2.10	3.15	4.45	6.30	7.71	9.96	14.09
	5L 652 76 . 060	3.50	2.30	4.00	5.66	8.00	9.80	12.65	17.89
	5L 652 80 . 060	4.00	2.60	5.00	7.07	10.00	12.25	15.81	22.36
	5L 652 84 . 060	4.50	3.00	6.25	8.84	12.50	15.31	19.76	27.94
5L 652 88 . 060	5.00	3.40	8.00	11.31	16.00	19.60	25.30	35.78	
75°	5L 652 14 . 075	0.20	0.12	–	0.04	0.05	0.06	0.08	0.11
	5L 652 16 . 075	0.20	0.14	–	0.05	0.07	0.08	0.10	0.14
	5L 652 18 . 075	0.20	0.16	–	0.06	0.08	0.10	0.13	0.18
	5L 652 21 . 075	0.40	0.20	–	0.08	0.11	0.14	0.18	0.25
	5L 652 24 . 075	0.50	0.30	–	0.12	0.16	0.20	0.26	0.37
	5L 652 27 . 075	0.60	0.30	0.11	0.16	0.22	0.27	0.35	0.49
90°	5L 652 21 . 090	0.40	0.20	0.06	0.08	0.11	0.14	0.18	0.25
	5L 652 24 . 090	0.50	0.30	0.08	0.12	0.16	0.20	0.26	0.37
	5L 652 27 . 090	0.60	0.30	0.11	0.16	0.22	0.27	0.35	0.49
	5L 652 30 . 090	0.70	0.40	0.16	0.23	0.32	0.40	0.51	0.72
	5L 652 33 . 090	0.90	0.50	0.22	0.32	0.45	0.55	0.71	1.00
	5L 652 36 . 090	1.00	0.50	0.32	0.45	0.63	0.77	1.00	1.41
	5L 652 40 . 090	1.20	0.70	0.50	0.71	1.00	1.22	1.58	2.23
	5L 652 44 . 090	1.35	0.80	0.63	0.89	1.25	1.53	1.98	2.80
	5L 652 48 . 090	1.50	0.80	0.80	1.13	1.60	1.96	2.53	3.58
	5L 652 51 . 090	1.65	0.90	0.95	1.34	1.90	2.32	3.00	4.24
	5L 652 56 . 090	2.00	1.10	1.25	1.77	2.50	3.06	3.95	5.59
	5L 652 60 . 090	2.20	1.20	1.57	2.23	3.15	3.86	4.98	7.04
	5L 652 64 . 090	2.50	1.30	2.00	2.83	4.00	4.90	6.33	8.95
	5L 652 67 . 090	2.70	1.40	2.37	3.36	4.75	5.82	7.51	10.62
	5L 652 72 . 090	3.00	1.70	3.15	4.45	6.30	7.71	9.96	14.09
	5L 652 76 . 090	3.50	1.90	4.00	5.66	8.00	9.80	12.65	17.89
	5L 652 80 . 090	4.00	2.40	5.00	7.07	10.00	12.25	15.81	22.36
5L 652 84 . 090	4.50	2.40	6.25	8.84	12.50	15.31	19.76	27.94	
5L 652 88 . 090	5.00	3.10	8.00	11.31	16.00	19.60	25.30	35.78	
120°	5L 652 18 . 120	0.35	0.20	–	0.06	0.08	0.10	0.13	0.18
	5L 652 21 . 120	0.40	0.20	–	0.08	0.11	0.14	0.18	0.25
	5L 652 24 . 120	0.50	0.20	–	0.12	0.16	0.20	0.26	0.37
	5L 652 27 . 120	0.60	0.30	–	0.16	0.22	0.27	0.35	0.49
	5L 652 30 . 120	0.70	0.30	0.16	0.23	0.32	0.40	0.51	0.72
	5L 652 33 . 120	0.90	0.40	0.22	0.32	0.45	0.55	0.71	1.00
	5L 652 36 . 120	1.00	0.50	0.32	0.45	0.63	0.77	1.00	1.41
	5L 652 40 . 120	1.20	0.60	0.50	0.71	1.00	1.22	1.58	2.23
	5L 652 44 . 120	1.35	0.60	0.63	0.89	1.25	1.53	1.98	2.80
	5L 652 48 . 120	1.50	0.60	0.80	1.13	1.60	1.96	2.53	3.58
	5L 652 51 . 120	1.65	0.90	0.95	1.34	1.90	2.32	3.00	4.24



SPADFLOW 5L 652

Low Pressure Flat-Fan Nozzle

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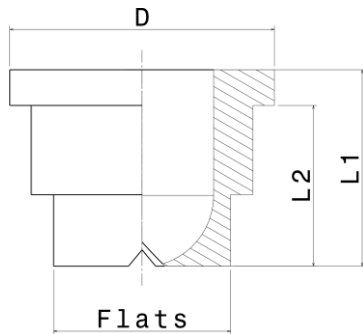
Spray angle (α)	Code	A ∅ [mm]	E ∅ [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K Factor</i>	2.0	3.0	5.0	10.0
120°	5L 652 56 . 120	2.00	0.90	1.25	1.77	2.50	3.06	3.95	5.59
	5L 652 60 . 120	2.20	1.10	1.57	2.23	3.15	3.86	4.98	7.04
	5L 652 64 . 120	2.50	1.30	2.00	2.83	4.00	4.90	6.33	8.95
	5L 652 67 . 120	2.70	1.40	2.37	3.36	4.75	5.82	7.51	10.62
	5L 652 72 . 120	3.00	1.60	3.15	4.45	6.30	7.71	9.96	14.09
	5L 652 76 . 120	3.50	1.70	4.00	5.66	8.00	9.80	12.65	17.89
	5L 652 80 . 120	4.00	2.00	6.25	8.84	12.50	15.31	19.76	27.94
	5L 652 88 . 120	5.00	2.60	8.00	11.31	16.00	19.60	25.30	35.78



SPADFLOW 5L 656/657

Low Pressure Flat-Fan Nozzle

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G1	Dimensions [mm]				Weight
	L1	L2	D	Flats	
Retaining Nut 3/8"	11.0	9.0	14.8	10.0	10 gr

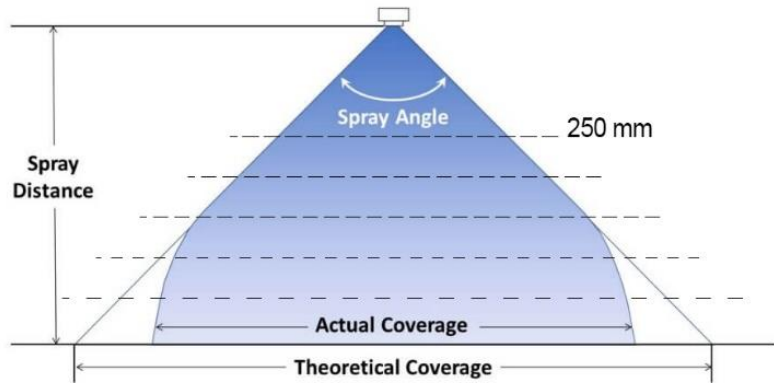
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- Uniform, Parabolic Liquid Distribution
- Stable Spray Angle
- Assembly with Retaining Nut

α	Spray coverage @ 250 mm
20°	85 mm
30°	120-140 mm
45°	170-220 mm
60°	260-290 mm
75°	380 mm
90°	420-540 mm
120°	630-900 mm



Spray angle (α)	Code	A Ø [mm]	E Ø [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K factor</i>	2.0	3.0	5.0	10.0
20°	5L 656 72 . 020	3.00	2.50	3.15	4.45	6.30	7.72	9.96	14.09
	5L 656 80 . 020	4.00	3.20	5.00	7.07	10.00	12.25	15.81	22.36
	5L 656 88 . 020	5.00	4.00	8.00	11.31	16.00	19.60	25.30	35.78
	5L 656 92 . 020	5.50	4.40	10.00	14.14	20.00	24.49	31.62	44.72
	5L 656 96 . 020	6.00	5.30	12.50	17.68	25.00	30.62	39.53	55.90
30°	5L 656 72 . 030	3.00	2.40	3.15	4.45	6.30	7.72	9.96	14.09
	5L 656 76 . 030	3.50	2.70	4.00	5.66	8.00	9.80	12.65	17.89
	5L 656 80 . 030	4.00	3.10	5.00	7.07	10.00	12.25	15.81	22.36
	5L 656 88 . 030	5.00	4.00	8.00	11.31	16.00	19.60	25.30	35.78
	5L 656 92 . 030	5.50	4.40	10.00	14.14	20.00	24.49	31.62	44.72
5L 656 96 . 030	6.00	5.00	12.50	17.68	25.00	30.62	39.53	55.90	



SPADFLOW 5L 656/657

Low Pressure Flat-Fan Nozzle

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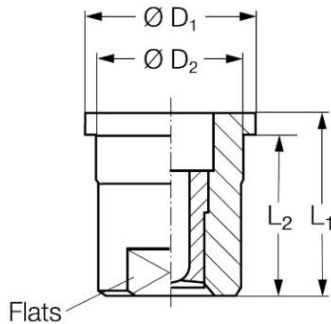
Spray angle (α)	Code	A Ø [mm]	E Ø [mm]	Flow rate [l/min]					
				P [bar]					
				0.5	1.0 <i>K Factor</i>	2.0	3.0	5.0	10.0
45°	5L 656 72 . 045	3.00	2.40	3.15	4.45	6.30	7.72	9.96	14.09
	5L 656 76 . 045	3.50	2.60	4.00	5.66	8.00	9.80	12.65	17.89
	5L 656 80 . 045	4.00	3.00	5.00	7.07	10.00	12.25	15.81	22.36
	5L 656 84 . 045	4.50	3.40	6.25	8.84	12.50	15.31	19.76	27.95
	5L 656 88 . 045	5.00	3.80	8.00	11.31	16.00	19.60	25.30	35.78
	5L 656 92 . 045	5.50	4.20	10.00	14.14	20.00	24.49	31.62	44.72
	5L 656 96 . 045	6.00	4.40	12.50	17.68	25.00	30.62	39.53	55.90
60°	5L 656 72 . 060	3.00	2.10	3.15	4.45	6.30	7.72	9.96	14.09
	5L 656 76 . 060	3.50	2.30	4.00	5.66	8.00	9.80	12.65	17.89
	5L 656 80 . 060	4.00	2.60	5.00	7.07	10.00	12.25	15.81	22.36
	5L 656 84 . 060	4.50	3.00	6.25	8.84	12.50	15.31	19.76	27.95
	5L 656 88 . 060	5.00	3.40	8.00	11.31	16.00	19.60	25.30	35.78
	5L 656 92 . 060	5.50	4.10	10.00	14.14	20.00	24.49	31.62	44.72
	5L 656 96 . 060	6.00	4.20	12.50	17.68	25.00	30.62	39.53	55.90
5L 657 04 . 060	8.00	5.50	20.00	28.28	40.00	48.99	63.25	89.44	
90°	5L 656 72 . 090	3.00	1.70	3.15	4.45	6.30	7.72	9.96	14.09
	5L 656 76 . 090	3.50	1.90	4.00	5.66	8.00	9.80	12.65	17.89
	5L 656 80 . 090	4.00	2.40	5.00	7.07	10.00	12.25	15.81	22.36
	5L 656 84 . 090	4.50	2.40	6.25	8.84	12.50	15.31	19.76	27.95
	5L 656 88 . 090	5.00	3.10	8.00	11.31	16.00	19.60	25.30	35.78
	5L 656 92 . 090	5.50	3.60	10.00	14.14	20.00	24.49	31.62	44.72
	5L 656 96 . 090	6.00	3.90	12.50	17.68	25.00	30.62	39.53	55.90
5L 657 04 . 090	8.00	4.90	20.00	28.28	40.00	48.99	63.25	89.44	
120°	5L 656 72 . 120	3.00	1.60	3.15	4.45	6.30	7.72	9.96	14.09
	5L 656 76 . 120	3.50	1.70	4.00	5.66	8.00	9.80	12.65	17.89
	5L 656 80 . 120	4.00	2.00	5.00	7.07	10.00	12.25	15.81	22.36
	5L 656 88 . 120	5.00	2.60	8.00	11.31	16.00	19.60	25.30	35.78
	5L 656 92 . 120	5.50	2.90	10.00	14.14	20.00	24.49	31.62	44.72



SPADFLOW 5L 652(HP)

High Pressure Cleaning Flat-Fan Nozzle

Webpage
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G1	Dimensions [mm]					Weight
	L1	L2	D1	D2	Flats	
Retaining Nut 3/8"	16.0	14.0	14.8	12.6	10.0	10 gr

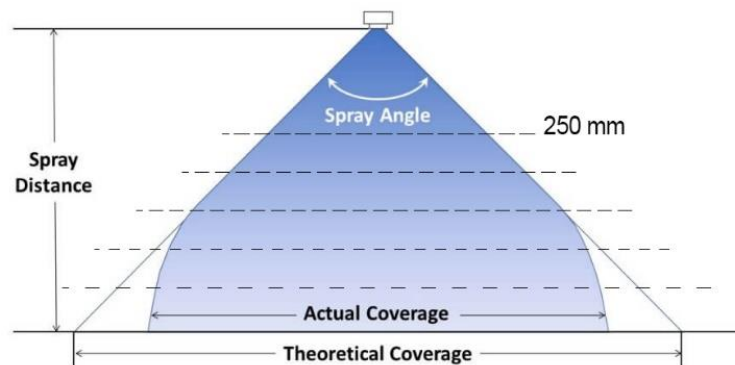
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- Uniform, Parabolic Liquid Distribution
- Stable Spray Angle
- Assembly with Retaining Nut

α	Spray coverage
	@ 250 mm
20°	85 mm
30°	125 mm
45°	170 mm
60°	290 mm



Spray angle (α)	Code	General Code	A Ø [mm]	Flow rate [l/min]							
				P [bar]							
				40	60	80	100	120	150	200	
20°	5L 652H 36 . 020	2002	1	2.88	3.53	4.08	4.56	5	5.58	6.45	
	5L 652H 37 . 020	20021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77	
	5L 652H 38 . 020	20025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06	
	5L 652H 39 . 020	20028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02	
	5L 652H 40 . 020	2003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66	
	5L 652H 41 . 020	20034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96	
	5L 652H 44 . 020	20038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26	
	5L 652H 45 . 020	2004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9	
	5L 652H 46 . 020	20043	1.38	6.2	7.59	8.77	9.8	10.74	12	13.86	
	5L 652H 47 . 020	20045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51	
	5L 652H 48 . 020	2005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12	
	5L 652H 50 . 020	20055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73	
5L 652H 52 . 020	2006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35		



SPADFLOW 5L 652(HP)

High Pressure Cleaning Flat-Fan Nozzle

Webpage
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Spray angle (α)	Code	General Code	A Ø [mm]	Flow rate [l/min]						
				P [bar]						
				40	60	80	100	120	150	200
20°	5L 652H 53 . 020	20065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 652H 54 . 020	2007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 652H 55 . 020	20075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 652H 57 . 020	2008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 652H 58 . 020	20087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 652H 59 . 020	2009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 652H 60 . 020	2010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 652H 62 . 020	2011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
	5L 652H 64 . 020	20125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29
	5L 652H 65 . 020	20131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23
	5L 652H 66 . 020	20139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8
	5L 652H 67 . 020	2015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35
5L 652H 70 . 020	20175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
30°	5L 652H 36 . 030	3002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 652H 37 . 030	30021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 652H 38 . 030	30025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 652H 39 . 030	30028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 652H 40 . 030	3003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 652H 41 . 030	30034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 652H 44 . 030	30038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 652H 45 . 030	3004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 652H 46 . 030	30043	1.38	6.2	7.59	8.77	9.8	10.74	12	13.86
	5L 652H 47 . 030	30045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 652H 48 . 030	3005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 652H 50 . 030	30055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 652H 52 . 030	3006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 652H 53 . 030	30065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 652H 54 . 030	3007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 652H 55 . 030	30075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 652H 57 . 030	3008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 652H 58 . 030	30087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
5L 652H 59 . 030	3009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02	
5L 652H 60 . 030	3010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23	
5L 652H 62 . 030	3011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45	
5L 652H 64 . 030	30125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29	
5L 652H 65 . 030	30131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23	
5L 652H 66 . 030	30139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8	
5L 652H 67 . 030	3015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35	
5L 652H 70 . 030	30175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
40°	5L 652H 36 . 040	4002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 652H 37 . 040	40021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 652H 38 . 040	40025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 652H 39 . 040	40028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 652H 40 . 040	4003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 652H 41 . 040	40034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 652H 44 . 040	40038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 652H 45 . 040	4004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 652H 47 . 040	40040	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 652H 48 . 040	4005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 652H 50 . 040	40055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 652H 52 . 040	4006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 652H 53 . 040	40065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 652H 54 . 040	4007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 652H 55 . 040	40075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 652H 57 . 040	4008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 652H 58 . 040	40087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 652H 59 . 040	4009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
5L 652H 60 . 040	4010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23	
5L 652H 62 . 040	4011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45	
5L 652H 64 . 040	40125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29	



SPADFLOW 5L 652(HP)

High Pressure Cleaning Flat-Fan Nozzle

Webpage
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Spray angle (α)	Code	General Code	A Ø [mm]	Flow rate [l/min]						
				P [bar]						
				40	60	80	100	120	150	200
40°	5L 652H 65 . 040	40131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23
	5L 652H 66 . 040	40139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8
	5L 652H 67 . 040	4015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35
	5L 652H 70 . 040	40175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41
	5L 652H 72 . 040	4020	3.05	28.83	35.31	40.78	45.59	49.94	55.84	64.47
	5L 652H 76 . 040	4025	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6
45°	5L 652H 79 . 040	4030	3.9	43.25	52.97	61.16	68.38	74.91	83.75	96.7
	5L 652H 36 . 045	4502	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 652H 37 . 045	45021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 652H 38 . 045	45025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 652H 39 . 045	45028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 652H 40 . 045	4503	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 652H 41 . 045	45034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 652H 44 . 045	45038	1.33	5.48	6.72	7.75	8.67	9.5	10.62	12.26
	5L 652H 45 . 045	4504	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 652H 47 . 045	45045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 652H 48 . 045	4505	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 652H 50 . 045	45055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 652H 52 . 045	4506	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 652H 53 . 045	45065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 652H 54 . 045	4507	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 652H 55 . 045	45075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 652H 57 . 045	4508	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 652H 58 . 045	45087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 652H 59 . 045	4509	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 652H 60 . 045	4510	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 652H 62 . 045	4511	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
5L 652H 64 . 045	45125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29	
5L 652H 65 . 045	45131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23	
5L 652H 66 . 045	45139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8	
5L 652H 67 . 045	4515	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35	
5L 652H 70 . 045	45175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
5L 652H 72 . 045	4520	3.05	28.83	35.31	40.78	45.59	49.94	55.84	64.47	
5L 652H 76 . 045	4525	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6	
5L 652H 79 . 045	4530	3.9	43.25	52.97	61.16	68.38	74.91	83.75	96.7	
60°	5L 652H 36 . 060	6002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 652H 37 . 060	60021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 652H 38 . 060	60025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 652H 39 . 060	60028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 652H 40 . 060	6003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 652H 41 . 060	60034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 652H 45 . 060	6004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 652H 47 . 060	60045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 652H 48 . 060	6005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 652H 50 . 060	60055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 652H 52 . 060	6006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 652H 53 . 060	60065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 652H 54 . 060	6007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 652H 55 . 060	60075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 652H 57 . 060	6008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 652H 58 . 060	60087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 652H 59 . 060	6009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 652H 60 . 060	6010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 652H 62 . 060	6011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
	5L 652H 64 . 060	60125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29
	5L 652H 65 . 060	60131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23
5L 652H 66 . 060	60139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8	
5L 652H 67 . 060	6015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35	
5L 652H 70 . 060	60175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
5L 652H 72 . 060	6020	3.05	28.83	35.31	40.78	45.59	49.94	55.84	64.47	
5L 652H 76 . 060	6025	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6	



SPADFLOW 5L 652(HP)

High Pressure Cleaning Flat-Fan Nozzle

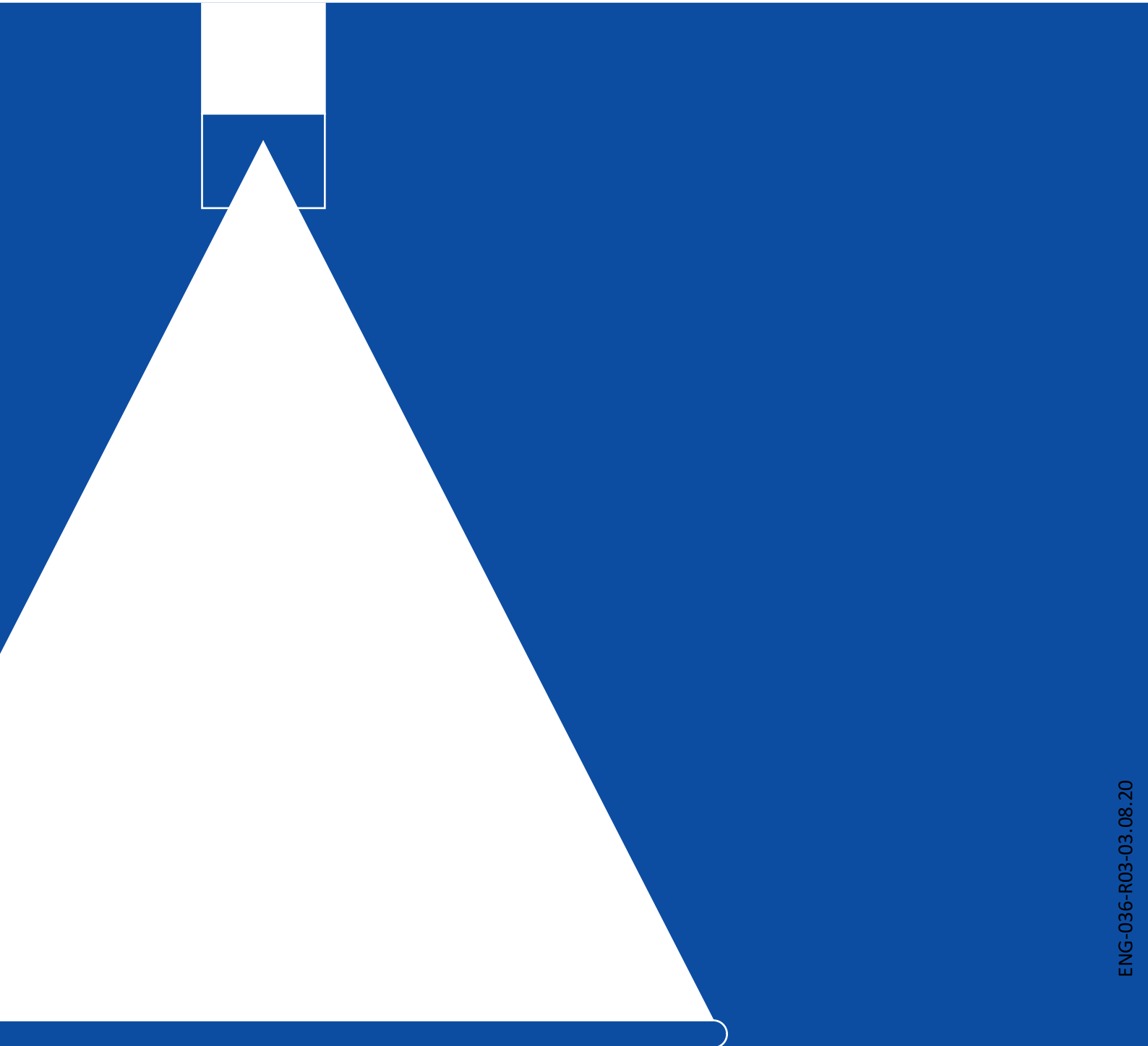
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Spray angle (α)	Code	General Code	A Ø [mm]	Flow rate [l/min]						
				P [bar]						
				40	60	80	100	120	150	200
80°	5L 652H 36 . 080	8002	1	2.88	3.53	4.08	4.56	5	5.58	6.45
	5L 652H 37 . 080	80021	1.02	3.03	3.71	4.28	4.79	5.25	5.87	6.77
	5L 652H 38 . 080	80025	1.1	3.6	4.42	5.1	5.7	6.24	6.98	8.06
	5L 652H 39 . 080	80028	1.16	4.04	4.94	5.71	6.38	6.99	7.81	9.02
	5L 652H 40 . 080	8003	1.18	4.32	5.29	6.11	6.83	7.48	8.37	9.66
	5L 652H 41 . 080	80034	1.3	4.9	6	6.93	7.75	8.49	9.49	10.96
	5L 652H 45 . 080	8004	1.35	5.77	7.06	8.16	9.12	9.99	11.17	12.9
	5L 652H 47 . 080	80045	1.4	6.49	7.95	9.18	10.26	11.24	12.57	14.51
	5L 652H 48 . 080	8005	1.55	7.21	8.83	10.2	11.4	12.49	13.96	16.12
	5L 652H 50 . 080	80055	1.6	7.93	9.71	11.22	12.54	13.74	15.36	17.73
	5L 652H 52 . 080	8006	1.72	8.65	10.6	12.24	13.68	14.99	16.75	19.35
	5L 652H 53 . 080	80065	1.75	9.37	11.48	13.26	14.82	16.23	18.15	20.96
	5L 652H 54 . 080	8007	1.8	10.09	12.36	14.28	15.96	17.48	19.55	22.57
	5L 652H 55 . 080	80075	1.9	10.81	13.25	15.29	17.1	18.73	20.94	24.18
	5L 652H 57 . 080	8008	2.05	11.54	14.13	16.31	18.24	19.98	22.34	25.8
	5L 652H 58 . 080	80087	2.06	12.54	15.36	17.74	19.83	21.72	24.29	28.04
	5L 652H 59 . 080	8009	2.1	12.98	15.89	18.35	20.52	22.48	25.13	29.02
	5L 652H 60 . 080	8010	2.3	14.41	17.65	20.38	22.79	24.97	27.91	32.23
	5L 652H 62 . 080	8011	2.4	15.86	19.42	22.42	25.07	27.46	30.7	35.45
	5L 652H 64 . 080	80125	2.5	18.02	22.07	25.48	28.49	31.21	34.89	40.29
5L 652H 65 . 080	80131	2.55	18.89	23.13	26.71	29.86	32.71	36.57	42.23	
5L 652H 66 . 080	80139	2.65	20.04	24.54	28.34	31.68	34.7	38.8	44.8	
5L 652H 67 . 080	8015	2.7	21.62	26.48	30.58	34.19	37.45	41.87	48.35	
5L 652H 70 . 080	80175	3	25.23	30.9	35.68	39.89	43.7	48.86	56.41	
5L 652H 72 . 080	8020	3.05	28.83	35.31	40.78	45.59	49.94	55.84	64.47	
5L 652H 76 . 080	8025	3.5	36.04	44.14	50.97	56.99	62.43	69.8	80.6	

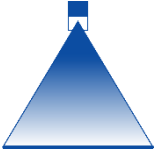
CHAPTER 6



◆◆ Deflector Nozzles



Deflector Nozzles

Selection Guide



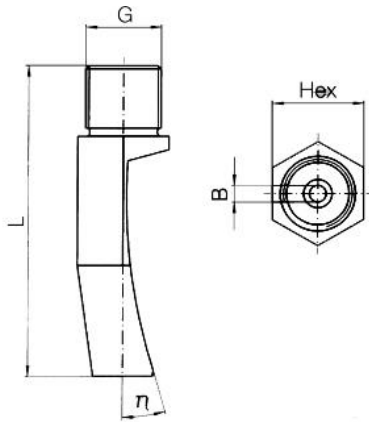
Nozzle Series	Flow Capacity	Operating Pressures	Spray Angle	Application	Page
 5L 688	standard Flow Up to 40 liters per Minute	Low Pressure Up to 5.0 bar	Narrow Spray Angle 15° - 30° - 45°	Cleaning Washing Degreasing Phosphating Process Engineering	85
 5L 689	Standard Flow Up to 100 liters per Minute	Low Pressure Up to 5.0 bar	Narrow Spray Angle 15° - 30° - 45°	Cleaning Washing Degreasing Phosphating Process Engineering	85
 5M LD	Standard Flow Up to 150 liters per Minute	Standard Pressure Up to 10 bar	Narrow Spray Angle 15° - 25° - 30° - 40° - 50°	Cleaning Rinsing Degreasing Phosphating Process Engineering	86 - 87
 5L 686	Standard Flow Up to 50 liters per Minute	Low Pressure Up to 5.0 bar	Wide Spray Angle 90° - 140°	Foam Control Carte Washers Cleaning Washing Preparation Techniques	88 - 89



SPADFLOW 6L 688/689

Powerful Deflector Nozzle

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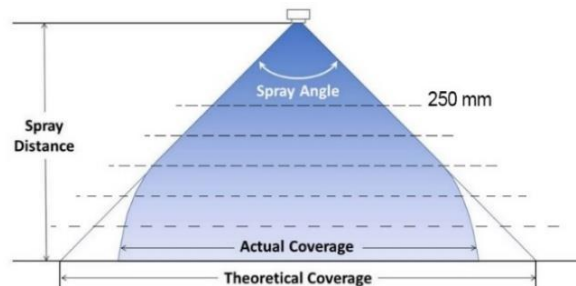
Size	Conn. code			Weight
	BSPT	BSPP	NPT	
3/8"	038T	038P	038N	150 gr
1/2"	012T	012P	012N	220 gr
3/4"	034T	034P	034N	306 gr

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

α	Spray coverage
	@ 250 mm
15°	65 mm
30°	135 mm
45°	220 mm

Properties:

- High Resistance to Physical Damage
- Sharp Flat-Fan Spray
- Not prone to clogging



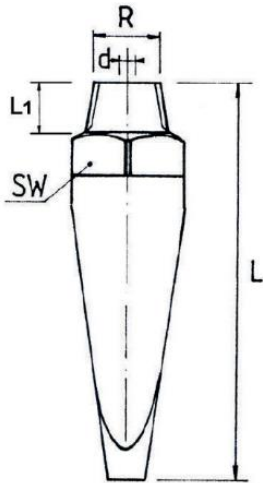
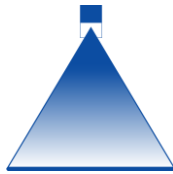
Spray angle (α)	Code	η	Connection** [Inch]	B Ø [mm]	Flow rate [l/min]			Dimensions						
					P [bar]			L [mm]			Hex [mm]			
					1.0 <i>K factor</i>	2.0	5.0	R 3/8	R 1/2	R 3/4	R 3/8	R 1/2	R 3/4	
15°	5L 688 92 . 015	10°	1/2"	4.7	14.14	20	31.62	-	103	-	-	22	-	-
	5L 689 00 . 015	9°	3/4"	6	22.27	31.5	49.81	-	-	141	-	-	-	27
	5L 689 12 . 015	9°	3/4"	8.6	44.55	63	99.61	-	-	168	-	-	-	27
30°	5L 688 92 . 030	17°	1/2"	4.7	14.14	20	31.62	-	73	-	-	22	-	-
	5L 689 00 . 030	17°	3/4"	6	22.27	31.5	49.81	-	-	86,5	-	-	-	27
	5L 689 08 . 030	15°	1/2" - 3/4"	7.6	35.36	50	79.06	-	-	97,5	-	-	-	27
	5L 689 12 . 030	15°	3/4"	8.6	44.55	63	99.61	-	-	108,5	-	-	-	27
45°	5L 688 76 . 045	35°	3/8"	3	5.66	8	12.65	42	-	-	-	19	-	-
	5L 688 84 . 045	30°	3/8"	3.8	8.84	12.5	19.76	49,5	-	-	-	19	-	-
	5L 688 92 . 045	29°	3/8"	4.8	14.14	20	31.62	58,5	-	-	-	22	-	-
	5L 688 92 . 045	29°	3/8"	4.8	14.14	20	31.62	54	-	-	-	22	-	-
	5L 689 00 . 045	35°	3/8" - 1/2" - 3/4"	6	22.27	31.5	49.81	65	-	73,5	24	-	-	27
	5L 689 04 . 045	21°	3/8"	6.9	28.28	40	63.25	66,5	-	-	-	24	-	-
	5L 689 08 . 045	18°	3/4"	7.6	35.36	50	79.06	-	-	73,5	-	-	-	27
	5L 689 12 . 045	18°	3/8"	8.6	44.55	63	99.61	78,5	-	-	-	24	-	-



SPADFLOW 6M LD

Square-Shape Deflector Nozzle

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G1	Thread Type			Weight
	BSPT	BSPP	NPT	
1/4"	014T	014P	014N	135 gr
3/8"	038T	038P	038N	150 g
1/2"	012T	012P	012N	170 gr
3/4"	034T	034P	034N	306g

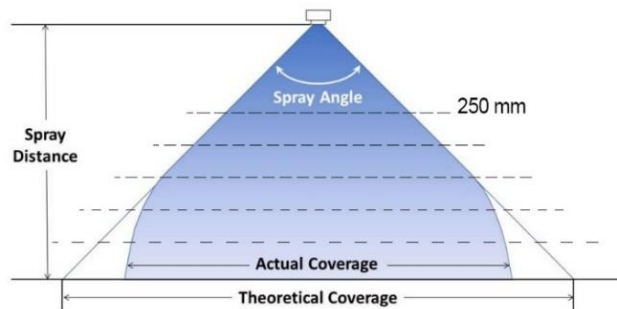
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- Square Section
- High Resistance to Physical Damage
- Sharp Flat-Fan Spray
- Not prone to clogging

α	Spray coverage
	@ 250 mm
15°	65
25°	110
30°	130
40°	180
50°	230



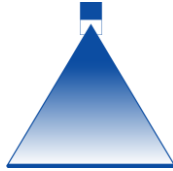
Spray angle (α)	Code	η	Connection** [Inch]	B \varnothing [mm]	Flow rate [l/min]					Dimensions [mm]		
					P [bar]					L	L1	SW
					1.0 <i>K factor</i>	2.0	3.0	5.0	10.0			
15°	5M LD 10 . 015	22°	1/4"	2	2.3	3.3	3.8	5	7	48	10	16
	5M LD 20 . 015	19°	1/4"	2.8	4.5	6.5	7.5	10	15	54	10	16
	5M LD 30 . 015	25°	3/8"	3.2	7	10	11	15	22	72	10	20
	5M LD 40 . 015	19°	3/8"	3.5	9.5	13	15	20	29	92	10	20
	5M LD 50 . 015	15°	3/8"	4	12	16	19	25	37	91	10	20
	5M LD 60 . 015	14°	1/2"	4.6	13.5	19.2	23	30	43	125	13	25
	5M LD 80 . 015	14°	1/2"	5.3	18.1	26	31	40	57	130	13	25
	5M LD 100 . 015	14°	1/2"	6	23	33	39	50	73	137	13	25
	5M LD 200 . 015	14°	3/4"	8.4	45	64	78	101	143	191	15	30



SPADFLOW 6M LD

Square-Shape Deflector Nozzle

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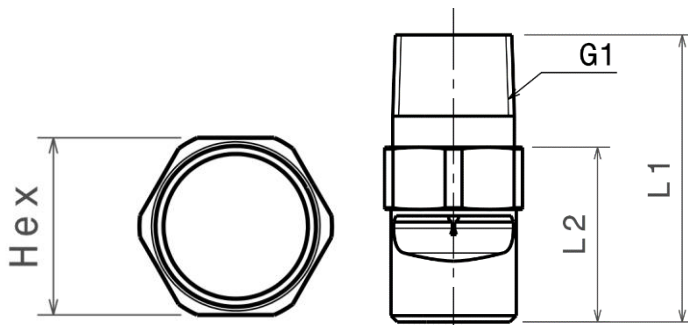
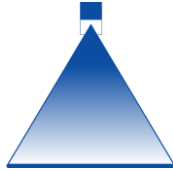
Spray angle (α)	Code	η	Connection** [Inch]	B ∅ [mm]	Flow rate [l/min]					Dimensions [mm]		
					P [bar]					L	L1	SW
					1.0 <i>K factor</i>	2.0	3.0	5.0	10.0			
25°	5M LD 40 . 025	25°	1/4"	3.7	9	12.8	15.5	20	29	65	10	19
	5M LD 04 . 035	40°	1/8"	1.2	0.9	1.3	1.6	2	2.9	23	7	16
	5M LD 10 . 035	35°	1/4"	2	2.3	3.3	3.8	5	7	37	10	16
	5M LD 20 . 035	30°	1/4"-3/8"	2.6	4.5	6.4	7.8	10.1	14.3	42	10	20
	5M LD 25 . 035	28°	1/4"-3/8"	2.9	5.6	8	9.8	12.6	17.9	49	10	20
	5M LD 30 . 035	28°	3/8"	3.3	6.8	9.6	11.7	15.1	21	52	10	20
	5M LD 40 . 035	25°	3/8"	3.5	9.5	13	15	22	29	58	10	20
	5M LD 50 . 035	23°	3/8"	4	12	16	19	25	37	64	10	20
	5M LD 60 . 035	27°	1/2"	4.5	13.5	19.1	23	30	43	73	13	25
	5M LD 80 . 035	24°	1/2"	5.2	18	26	30	40	58	81	13	25
	5M LD 100 . 035	20°	1/2"	6	23	33	38	50	73	89	13	25
	5M LD 160 . 035	23°	3/4"	7.5	37	52	60	80	177	114	15	30
5M LD 200 . 035	23°	3/4"	8.4	45	64	78	101	143	122	15	30	
35°	5M LD 40 . 040	35°	3/8"	3.5	9.5	13	15	20	29	60	10	30
	5M LD 50 . 040	34°	3/8"	4	12	16	19	25	37	64	10	25
	5M LD 60 . 040	33°	3/8"	4.5	13.5	19.1	23	30	43	72	10	25
	5M LD 70 . 040	29°	3/8"	5	15.8	22	27	35	50	75	10	25
	5M LD 80 . 040	26°	3/8"	5.2	18	26	30	40	58	77	10	25
	5M LD 90 . 040	28°	3/8"	5.5	21	29	34	45	65	77	10	25
	5M LD 100 . 040	28°	3/8"	6	23	32	39	50	71	87	10	25
40°	5M LD 10 . 050	60°	1/4"	2	2.3	3.3	3.8	5	7	31	10	16
	5M LD 25 . 050	42°	1/4"-3/8"	2.9	5.6	8	9.8	12.6	17.9	42	10	20
	5M LD 40 . 050	45°	1/4"-3/8"	3.5	9	12.8	15.6	20	29	47	10	20
	5M LD 60 . 050	37°	3/8"	4.4	13.5	19.2	23	30	43	55	10	25
	5M LD 100 . 050	40°	3/8"	6	23	32	39	50	71	72	10	30
	5M LD 125 . 050	40°	3/8"	6.7	28	41	49	63	89	72	10	30
	5M LD 160 . 050	37°	3/8"	7.5	36	51	63	81	114	72	10	30
	5M LD 200 . 050	32°	3/8"	8.3	46	64	76	100	147	72	10	30



SPADFLOW 6L 686

Powerful Deflector Nozzle

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G1	Thread Type			Dimensions [mm]			Weight
	BSPT	BSPP	NPT	L ₁	L ₂	Hex	
1/8"	018T	018P	018N	23.0	6.5	11	17 gr
1/4"	014T	014P	014N	35.0	9.7	14	20 gr
3/8"	038T	038P	038N	38.5	10.1	17	30 gr
1/2"	012T	012P	012N	45.0	13.2	22	40 gr

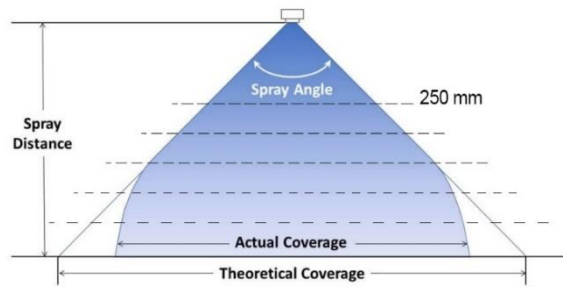
Material*	Code
Brass	1
S.S.304	2
S.S.316	3

* Different materials are available upon request

Properties:

- Wide Flat-Fan Spray
- Sharply Delimited Jet Pattern
- Particularly Clog-Proof

α	Spray coverage @ 250 mm
90°	520-530 mm
140°	1360-1370 mm



Spray angle (α)	Code	η	Connection [Inch]	B \varnothing [mm]	Flow rate [l/min]		
					P [bar]		
					1.0 <i>K factor</i>	2.0	5.0
90°	5L 686 36 . 090	75°	1/8"-1/4"	0.80	0.45	0.63	1.00
	5L 686 40 . 090	75°	1/8"-1/4"	1.00	0.71	1.00	1.58
	5L 686 68 . 090	40°	1/4"	2.40	3.54	5.00	7.91
	5L 686 72 . 090	40°	1/8"-1/4"	2.70	4.45	6.30	9.96
	5L 686 80 . 090	40°	1/4"	3.40	7.07	10.00	15.81
	5L 686 88 . 090	40°	1/4"	4.20	11.31	16.00	25.30
	5L 686 92 . 090	40°	3/8"	4.70	14.14	20.00	31.62



SPADFLOW 6L 686

Powerful Deflector Nozzle

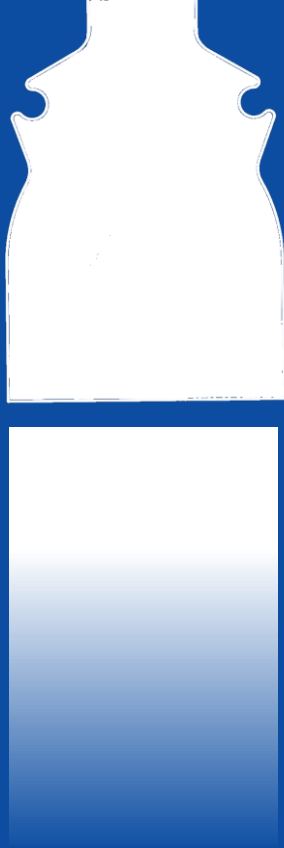
Webpage
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Spray angle (α)	Code	η	Connection [Inch]	B Ø [mm]	Flow rate [l/min]		
					P [bar]		
					1.0 <i>K factor</i>	2.0	5.0
140°	5L 686 36 . 140	75°	1/8"-1/4"	0.80	0.45	0.63	1.00
	5L 686 40 . 140	75°	1/8"-1/4"	1.00	0.71	1.00	1.58
	5L 686 44 . 140	75°	1/4"	1.20	0.88	1.25	1.98
	5L 686 48 . 140	75°	1/8"1/4"	1.30	1.13	1.60	2.53
	5L 686 52 . 140	75°	1/8"1/4"	1.50	1.41	2.00	3.16
	5L 686 56 . 140	75°	1/8"1/4"	1.70	1.77	2.50	3.59
	5L 686 60 . 140	75°	1/8"1/4"	1.90	2.23	3.15	4.98
	5L 686 64 . 140	75°	1/4"	2.20	2.83	4.00	6.32
	5L 686 68 . 140	75°	1/8"1/4"	2.40	3.54	5.00	7.91
	5L 686 72 . 140	75°	1/8"1/4"	2.70	4.45	6.30	9.96
	5L 686 76 . 140	75°	1/4"	3.00	5.66	8.00	12.65
	5L 686 80 . 140	75°	1/8"1/4"	3.40	7.07	10.00	15.81
	5L 686 82 . 140	75°	1/4"	3.60	7.92	11.20	17.71
	5L 686 84 . 140	75°	1/4"	3.80	8.80	12.50	19.76
	5L 686 86 . 140	75°	1/4"	4.00	9.90	14.00	22.14
	5L 686 88 . 140	75°	1/4"	4.20	11.31	16.00	25.30
	5L 686 90 . 140	75°	1/4"	4.50	12.73	18.00	28.46
	5L 686 92 . 140	75°	3/8"	4.70	14.14	20.00	31.62
	5L 686 96 . 140	75°	1/2"	5.30	17.68	25.00	39.53
	5L 686 98 . 140	75°	3/8"-1/2"	5.60	19.80	28.00	44.27

CHAPTER 7


◆◆ Air Blower Nozzles



Air Blower Nozzles

Selection Guide

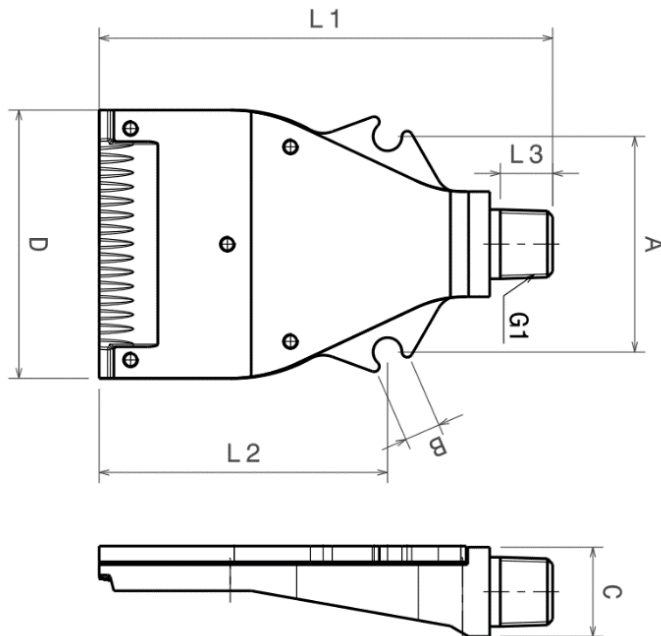


Nozzle Series	Consumption	Operating Pressures	Spray Angle	Application	Page
 7L 600.606	Normal Flow Up to 60 liters per Minute (in Normal Condition)	Low Pressure Up to 6 bar	Narrow Spray Angle	Cleaning Drying Blowing off/Out Cooling Transporting Protection Wall	92



SPADFLOW 7L 600.606

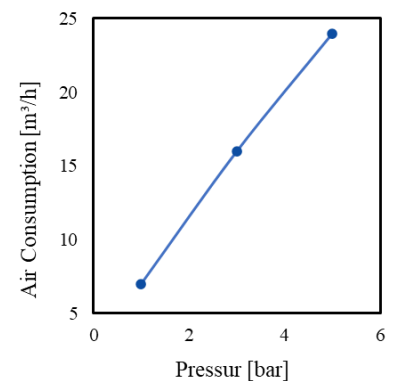
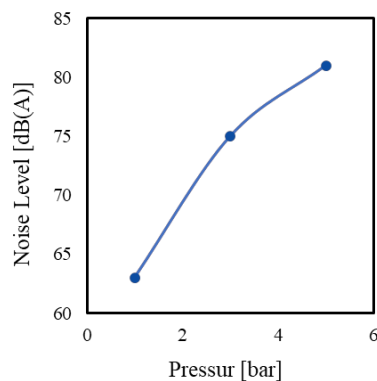
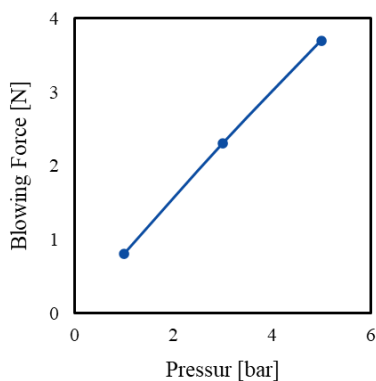
Multi-Channel Flat Fan Nozzle



Properties:

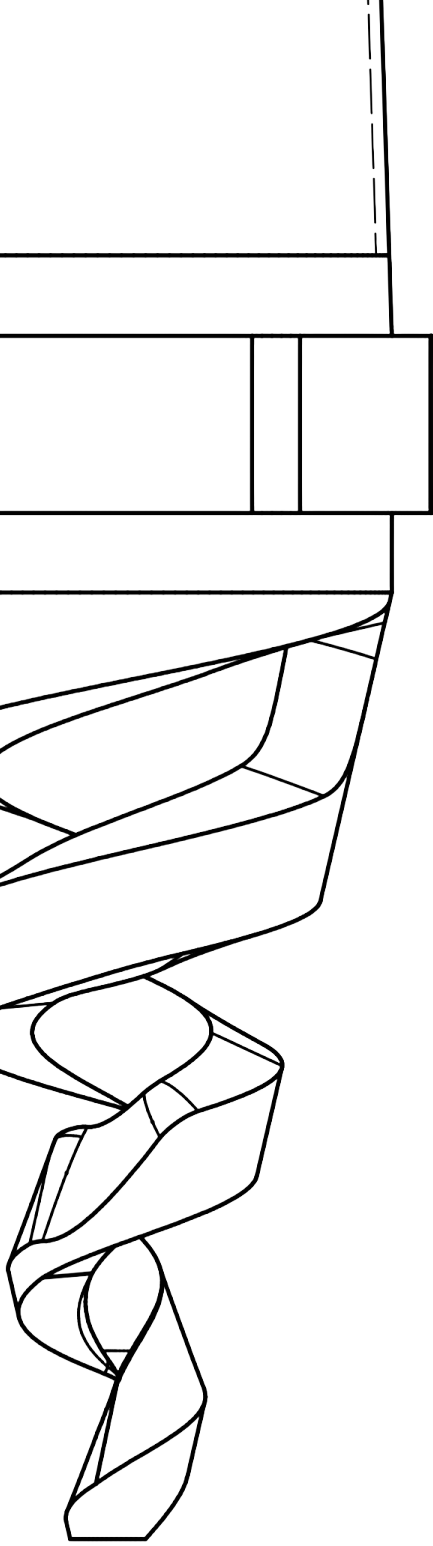
- Laminar Flow
- Powerful Air Stream
- High Blowing Force
- For High Thermal Condition

G1	Thread Type			Dimensions [mm]							Weight
	BSPT	BSPP	NPT	L ₁	L ₂	L ₃	A	B	C	D	
1/4"	014T	014P	014N	86.5	55.0	10.5	41.0	5.1	17.0	51.0	60 gr



Material*	Code
S.S.316	3
Aluminum	AL

* Different materials are available upon request



Edition ENG-036-R03-03.08.20



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