

WELCOME TO DELAVAN

Meeting the challenges

industries and NEW market



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# SPRAYING APPLICATIONS

With more than 60 years of nozzle application experience Delavan has listed some of the more common spray nozzle applications in the table below. Please use the Nozzle Technology section to calculate the desired flow rate, spray angle, operating pressure and material and then use the tables in this section to find the nozzle you need.

The first table groups applications by industry and the second lists the nozzle types suggested for each application. Certain installation sites will often present unique design constraints but the most common nozzles for particular applications are presented in the next table on page 3.6.

# WE ARE HERE TO HELP

If you need more detailed information or advice then Delavan sales engineers and technical staff are always available to answer your questions.

INDUSTRY APPLICA
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INDUSTRY	APPLICATION	SEE APPLICATION TYPES	
Agriculture/Horticulture/Livestock	Plant Protection / Watering / Irrigation	Application 3 – Dust Suppression – Roads	
	Stubble Burning	Application 26 – Oil Burning	
	Aerial Spraying	Application 25 – Oil Pollution Control	
	Livestock Showering / Cooling	Application 37 – Livestock Cooling	
Automotive Industry	Component or Body Washing Machines	Application 15 – Component Washing	
	De-burring	Application 16 – De-burring	
	Dip Tank Agitation	Application 17 – Liquid Agitation	
	Leak Test	Application 20 – Leak Testing	
	Foam Breaking	Application 6 – Foam Breaking	
Bottling and Canning Industries	Conveyor Lubrication	Application 7 – Roll Lubrication	
	Bottle & Can Cooling	Application 15 – Component Washing	
	Washing – Trays etc.	Application 10 – Phosphate Spraying	
	Drying	Application 13 – Air Drying	
	Foam Breaking	Application 6 – Foam Breaking	
Brewing Industry	Vessel Clean In Place Systems	Application 30 – Cleaning In Place	
	Mash Tun Cleaning	Application 30 – Cleaning In Place	
	Foam Breaking	Application 6 – Foam Breaking	
	Bottle Washing	Application 15 – Component Washing	
	Keg Washing	Application 30 – Cleaning In Place	
	Conveyor Lubrication	Application 7 – Roll Lubrication	
	Drying	Application 13 – Air Drying	
	Trub Dispersal	Application 14 – Coke / Slag Quenching	
Carpet Industry	Application of Stain Repellent Chemicals	Application 7 – Roll Lubrication	



INDUSTRY	APPLICATION	SEE APPLICATION TYPES	
CHEMICAL & PETROCHEMICAL	Dust Suppression	Application 2 – Dust Suppression – Transfer Points	
Manufacturing	Storage Tank Cooling	Application 23 – Fire Protection	
	Leaching	Application 15 – Component Washing	
	Odour Control	Application 22 – Odour Control	
	Vessel Clean In Place Systems	Application 30 – Cleaning In Place	
	Container Washing – Internal	Application 30 – Cleaning In Place	
	Container Washing – External	Application 15 – Component Washing	
	Keg Washing	Application 30 – Cleaning In Place	
	IBC Washing – Internal	Application 30 – Cleaning In Place	
	IBC Washing – External	Application 15 – Component Washing	
	Conveyor Washing	Application 21 – Vehicle Washing	
	Conveyor Lubrication	Application 7 – Roll Lubrication	
	Foam Breaking	Application 6 – Foam Breaking	
	Oil Slick – Detergent Spraying	Application 25 – Oil Pollution Control	
	Gas Scrubbing	Application 35 – Gas Scrubbing	
	Steam Conditioning	Application 36 – Steam Conditioning	
	Liquid Waste Incineration	Application 26 – Oil Burning	
	Fire Protection	Application 23 – Fire Protection	
	Safety Showers & Eye Baths	Application 44 – Safety Showers	
	Coke or Slag Quenching	Application 14 – Coke / Slag Quenching	
Civil Engineering	Dust Suppression	Application 3 – Dust Suppression – Roads	
	Building Cleaning	Application 9 – Descaling	
	Decorative Water Features	Application 45 – Decorative Water Features	
	Wood Preservation	Application 18 – Paint Spraying	
	Roof Cooling	Application 23 – Fire Protection	
Electronics Industry	Etch and Wash Chemical Spraying	Application 40 – Etch And Wash Chemical Spraying – Electronics	
	Dip Tank Agitation	Application 17 – Liquid Agitation	
	Drying	Application 13 – Air Drying	
	Foam Breaking	Application 6 – Foam Breaking	
Environmental	Dust Control – Roads	Application 3 – Dust Suppression – Roads	
	Pollution Control – Oil Slick Spraying	Application 25 – Oil Pollution Control	
	Effluent Treatment	Application 28 – Effluent Treatment	
	Spray Ponds	Application 29 – Spray Ponds	
	Odour Control	Application 22 – Odour Control	
	Dust Suppression	Application 2 – Dust Suppression – Transfer Points Application 3 – Dust Suppression – Roads	
	Wheel Wash	Application 5 – Wheel Wash	
	Road Sweeping	Application 24 – Weed Control	



INDUSTRY	APPLICATION	SEE APPLICATION TYPES	
Environmental (continued)	Weed Control	Application 24 – Weed Control	
	Liquid Waste Incineration	Application 26 – Oil Burning	
	Weir Wall Washing	Application 16 – Oil De-burring	
Food Processing Industry	Container Washing - External	Application 15 – Component Washing	
	Container Washing – Internal	Application 30 – Cleaning In Place	
	Conveyor Washing	Application 21 – Vehicle Washing	
	Drying	Application 13 – Air Drying	
	Leaching	Application 15 – Component Washing	
	Foam Breaking	Application 6 – Foam Breaking	
	Fruit/Vegetable Washing	Application 15 – Component Washing	
	Fruit/Vegetable Coating	Application 7 – Roll Lubrication	
	Mould Cooling	Application 31 – Mould Cooling	
	Release Agent Spraying	Application 7 – Roll Lubrication	
	Disinfection – Spraying or Fogging	Application 27 – Humidification	
	Spray Drying	Application 32 – Spray Drying	
	Oven Humidity Control	Application 27 – Humidification	
HVAC	Heating – Oil Burning	Application 26 – Oil Burning	
	Humidification	Application 27 – Humidification	
	Fogging	Application 27 – Humidification	
	Fume Scrubbing	Application 19 – Fume Scrubbing	
Meat Processing	Abattoir Cleaning	Application 15 – Component Washing	
	Disinfection – Spraying or Fogging	Application 27 – Humidification	
	Conveyor Washing	Application 21 – Vehicle Washing	
	Foam Breaking	Application 6 – Foam Breaking	
Mechanical Engineering	Tool Cooling	Application 4 – Cutter Cooling	
	Mould Release Spraying	Application 7 – Roll Lubrication	
	Lubricant & Grease Spraying	Application 7 – Roll Lubrication	
Metal Finishing	Static, Rotary or Conveyor Component Washing Machines	Application 15 – Component Washing	
	De-burring	Application 16 – De-burring	
	Grinding Dust Removal	Application 5 – Wheel Wash	
	Electroplating – Tank Agitation	Application 17 – Liquid Agitation	
	Electroplating – Product Washing	Application 10 – Phosphate Spraying	
	Pre-treatment Wash	Application 15 – Component Washing	
	Pre-treatment Plating Iron or Zinc Phosphate	Application 10 – Phosphate Spraying	
	Protective Coating Spraying	Application 7 – Roll Lubrication	
	Paint Spraying	Application 18 – Paint Spraying	
	Drying	Application 13 – Air Drying	
	Dip Tank Agitation	Application 17 – Liquid Agitation	



INDUSTRY	APPLICATION	SEE APPLICATION TYPES	
Metal Finishing (continued)	Foam Breaking	Application 6 – Foam Breaking	
	Safety Showers & Eyebaths	Application 44 – Safety Showers	
	Fume Scrubbing	Application 19 – Fume Scrubbing	
Metal Heat Treatment	Billet Quenching	Application 11 – Continuous Casting Cooling	
	Strip Cooling	Application 8 – Cooling Mill Rolls	
Metal Production Industry	Roll Lubrication	Application 7 – Roll Lubrication	
	Roll Cooling	Application 8 – Cooling Mill Rolls	
	Descaling	Application 9 – Descaling	
	Dust Control – at Descaling Points	Application 2 – Dust Suppression – Transfer Points	
	Pickling	Application 10 – Phosphate Spraying	
	Continuous Casting – Cooling	Application 11 – Continuous Casting	
	Wire Die Lubrication / Cooling	Application 12 – Wire Die Lubrication	
	Sheet Washing	Application 10 – Phosphate Spraying	
	Drying	Application 13 – Air Drying	
	Sheet Oiling	Application 7 – Roll Lubrication	
	Coke or Slag Quenching	Application 14 – Coke Quenching	
Mineral Extraction & Processing	Gravel or Coal Washing	Application 1 – Gravel / Coal Washing	
	Dust Control – Transfer Points	Application 2 – Dust Suppression – Transfer Points	
	Dust Control – Roads	Application 3 – Dust Suppression – Roads	
	Cutter Cooling	Application 4 – Cutter Cooling	
	Wheel Wash	Application 5 – Wheel Wash	
	Foam Breaking	Application 6 – Foam Breaking	
Paper Making Industry	Bark Removal	Application 16 – De-burring	
	Edge Trimming	Application 42 – Edge Trimming	
	Pulp – Water Addition	Application 43 – Pulp – Water Addition	
	Foam Breaking	Application 6 – Foam Breaking	
	Filter / Screen Washing	Application 11 – Continuous Casting Cooling	
Pharmaceutical Industry	Vessel Clean In Place Systems	Application 30 – Cleaning In Place	
	Tablet Coating	Application 33 – Tablet Coating	
	Bottle Washing	Application 15 – Component Washing	
	Drying	Application 13 – Air Drying	
	Conveyor Lubrication	Application 7 – Roll Lubrication	
	Dust Suppression	Application 2 – Dust Suppression – Transfer Points	
	Fume Scrubbing	Application 19 – Fume Scrubbing	
	Centrifuge Cake Washing	Application 34 – Centrifuge Cake Washing	
Photographic Industry	Film Processing	Application 40 – Etch And Wash Chemical Spraying – Electronics	
	Dip Tank Agitation	Application 17 – Agitation	
	Drying	Application 13 – Air Drying	



INDUSTRY	APPLICATION	SEE APPLICATION TYPES	
Power Industry	Flue Gas De-Sulphurisation	Application 35 – Gas Scrubbing	
	Steam Conditioning	Application 36 – Steam Conditioning	
	De-Superheating	Application 36 – Steam Conditioning	
	Spray Ponds	Application 29 – Spray Ponds	
	Cooling Towers	Application 29 – Spray Ponds	
	Gravel / Coal Washing	Application 1 – Gravel / Coal Washing	
	Dust Control – Transfer Points	Application 2 – Dust Suppression – Transfer Points	
	Dust Control – Roads	Application 3 – Dust Suppression – Roads	
	Flask Decontamination – Nuclear	Application 38 – Flask Decontamination – Nuclear	
	Magnox Extinguishing	Application 39 – Magnox Extinguishing – Nuclear	
	Safety Showers & Eyebaths	Application 44 – Safety Showers	
	Pollution Control – Oil Slick Spraying	Application 25 – Oil Pollution Control	
	Wheel Wash	Application 5 – Wheel Wash	
	Insulator Washing	Application 5 – Wheel Wash	
	Transformer Fire Protection	Application 23 – Fire Protection	
	Coke or Slag Quenching	Application 14 – Coke / Slag Quenching	
Rubber Processing Industry	Conveyor Lubrication	Application 7 – Roll Lubrication	
	Belt Cooling	Application 41 – Belt Cooling	
	Mould Release Agent Spraying	Application 7 – Roll Lubrication	
	Foam Breaking	Application 6 – Foam Breaking	
Textile Industry	Moistening of cloth or yarn	Application 27 – Humidification	
	Spraying of Stain Repellent Chemicals	Application 7 – Roll Lubrication	
Transport Industry	Vehicle Washing	Application 21 – Vehicle Wash	
	Wheel Wash	Application 5 – Wheel Wash	
	Odour Control – Ships	Application 22 – Odour Control	
	Fire Protection – Ships	Application 23 – Fire Protection	
	Weed Control – Railway Lines, Runways & Pavements	Application 24 – Weed Control	
	Oil Slick Detergent Spraying	Application 25 – Oil Pollution Control	



Having found the application number from the previous table, use this table to determine the nozzle you require.

The various fitting options are:

One piece threaded - This type of nozzle screws onto or into a

mating part.

Tip Type – A flanged nozzle which requires a body and cap

assembly.

Delafit – A quick release system which allows tool free

replacement.

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# APPLICATION 1 - GRAVEL/COAL WASHING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, TJ, AN		DFAC, DFTJ, DFAN		Eyelets, HNS
Hollow Cone Spray	AE, AF, AH, AG		DFAE, DFAF		
Solid Cone Spray	BI, BN		DFBI, DFBN		
Other Nozzles					

Use Hollow Cone sprays when the wash water is re-circulated and is likely to contain debris.

# **APPLICATION 2 - DUST SUPPRESSION - TRANSFER POINTS**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					Eyelets, HNS,
Hollow Cone Spray	AE, AF, WR, WRW	DC	DFAE, DFAF		Swivels
Solid Cone Spray	BI, BN,BK,BL	WL	DFBI, DFBN		
Other Nozzles					

#### APPLICATION 3 - DUST SUPPRESSION - ROADS

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, AN				Eyelets, HNS
Hollow Cone Spray					
Solid Cone Spray	BI, CJ				
Other Nozzles				Sector Sprays	

#### APPLICATION 4 - CUTTER COOLING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC(0°)				HNS
Hollow Cone Spray	WM				
Solid Cone Spray	BL				
Other Nozzles					

# APPLICATION 5 - WHEEL WASH

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, TJ	AD			HNS
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# APPLICATION 6 - FOAM BREAKING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AN	D Tip			Eyelets, HNS
Hollow Cone Spray	RA				
Solid Cone Spray	BN, BY				
Other Nozzles					

Due to the complex nature and variation of different chemical foams please contact Delavan's Customer Service Team for advice on this application.

# **APPLICATION 7 - ROLL LUBRICATION**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray		LF, LK, D Tip		AL15, AL60, Lo-Air	HNS, Swivels
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# **APPLICATION 8 - COOLING MILL ROLLS**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, CAC	LF	DFAC	LD, AD	HNS
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# APPLICATION 9 - DESCALING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AZ, BZ, 343, 344	DE, DQ, DD, LQ			HNS
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# **APPLICATION 10 - PHOSPHATE SPRAYING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, TJ, AN		DFAC, DFTJ, DFAN	LD, AD	Eyelets, Ball Swivel
Hollow Cone Spray	AE, AF		DFAE, DFAF		Eyelets, HNS, Adjustable Joints
Solid Cone Spray	BI, BN		DFBI, DFBN		
Other Nozzles					

# **APPLICATION 11 - CONTINUOUS CASTING COOLING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC	LF	DFAC, FB Cap & Body	LD, AD	HNS
Hollow Cone Spray					
Solid Cone Spray	BI, BN, BQ, BT		DFBI, DFBN, DFBQ, DFBT		
Other Nozzles					

# APPLICATION 12 - WIRE DIE LUBRICATION (AND COOLING)

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS
Hollow Cone Spray	WM				
Solid Cone Spray				AL, AL45	
Other Nozzles					

# **APPLICATION 13 - AIR DRYING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, DJ	LF, SL, Blow Off	DFAC, FB Cap & Body		HNS, Swivels,
Hollow Cone Spray					Adjustable Joints
Solid Cone Spray					
Other Nozzles					

# **APPLICATION 14 - COKE QUENCHING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS
Hollow Cone Spray	AE, AF, BE		DFAE, DFAF		
Solid Cone Spray	BI, BN, CM, BY		DFBI, DFBN		
Other Nozzles					

# **APPLICATION 15 - COMPONENT WASHING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, CAC, TJ		DFAC, DFTJ		HNS, Ball Swivel
Hollow Cone Spray	AE		DFAE		Eyelets
Solid Cone Spray	BI		BFBI		
Other Nozzles					

# APPLICATION 16 - DE-BURRING

ATTERIOR TO BE BORRING							
SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES		
Flat Spray	AQ, AZ	LQ			HNS		
Hollow Cone Spray							
Solid Cone Spray							
Other Nozzles							

# **APPLICATION 17 - LIQUID AGITATION**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC				HNS, Ball Swivel
Hollow Cone Spray					Eyelets, Adjustable Joints
Solid Cone Spray					
Other Nozzles				BB Eductor	

# APPLICATION 18 - PAINT SPRAYING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray		LK, LQ		Airless Tips	Turnaflo
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# APPLICATION 19 - FUME SCRUBBING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS, Ball Swivel
Hollow Cone Spray	AE, AF, PJ		DFAE, DFAF		Eyelets
Solid Cone Spray	BN		DFBN	AL30	
Other Nozzles					

# **APPLICATION 20 - LEAK TESTING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS, Ball Swivel
Hollow Cone Spray					Eyelets
Solid Cone Spray	BN, BI, CJ		DFBN, DFBI		
Other Nozzles					

# **APPLICATION 21 - VECHICLE WASHING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, CAC, AN, TJ, AZ	LF	DFAC, DFTJ, DFAN, FB Cap & Body		HNS, Ball Swivel Eyelets, Swivels
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# **APPLICATION 22 - ODOUR CONTROL**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray				AL60	HNS
Hollow Cone Spray	WM	WG	FB Cap & Body		
Solid Cone Spray				GA, GC, AL, AL45	
Other Nozzles					



# **APPLICATION 23 - FIRE PROTECTION**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AN				HNS
Hollow Cone Spray					
Solid Cone Spray	BI, BN,CM, BY			CL7	
Other Nozzles					

# APPLICATION 24 - WEED CONTROL

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AN	LF	FB Cap & Body		HNS, Swivels
Hollow Cone Spray	RA				
Solid Cone Spray	BL	WL	FB Cap & Body		
Other Nozzles					

# **APPLICATION 25 - OIL POLLUTION CONTROL**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC			QLD, FLD	HNS, Swivels,
Hollow Cone Spray	RA				Quick Couplers
Solid Cone Spray					
Other Nozzles					

Note:- QLD and FLD are not featured in this catalogue. Please contact Delavan's Customer Service Team for further details.

# **APPLICATION 26 - OIL BURNING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC	LF			Protek
Hollow Cone Spray		WDA		Swirl-Air	
Solid Cone Spray		WDB		SNA, AIRO.	
Other Nozzles					

Please contact Delavan's Customer Service Team for further details of oil burning nozzles and our Oil Burner leaflet.

# **APPLICATION 27 - HUMIDIFICATION**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray				AL60	
Hollow Cone Spray	WM	WG	FB Cap & Body	Swirl-Air	
Solid Cone Spray				AL, AL30, AL45, SNA	
Other Nozzles					

# APPLICATION 28 - EFFLUENT TREATMENT

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AN				HNS, Quick
Hollow Cone Spray	BE,WRA,WRA-RD				Couplers
Solid Cone Spray	СМ				
Other Nozzles					

# **APPLICATION 29 - SPRAY PONDS**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS, Quick
Hollow Cone Spray	BE, RA, WRA				Couplers
Solid Cone Spray					
Other Nozzles					

# APPLICATION 30 - CLEAN IN PLACE

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS
Hollow Cone Spray	PU, PJ				
Solid Cone Spray	BI, BN, CLFD 13			CIP21, DWN19, KN9	
Other Nozzles					

Note:- As vessels vary widely in shape and size, please contact Delavan's Customer Service Team for advice on Clean In Place Systems.

# **APPLICATION 31 - MOULD COOLING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS, Swivels, Adjustable Joints
Hollow Cone Spray					Adjustable Joints
Solid Cone Spray	BI, BN, BL	WL	DFBI, DFBN, FB Cap & Body		
Other Nozzles					

# APPLICATION 32 - SPRAY DRYING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					Assembly Tools,
Hollow Cone Spray				Mini SDX, SDX, SDX III, Swirl-Air	Kwik-Chek Orifice Gauge
Solid Cone Spray					
Other Nozzles					

Delavan produce a complete range of Spray Drying nozzles and accessories. Please contact Delavan's Customer Service Team for full details and a copy of our Spray Drying literature.

# APPLICATION 33 - TABLET COATING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray				AL15, AL60, AFAL, Airless Tip	
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

Note:- AFAL is a variable fan width, air atomising nozzle specifically designed for batch tablet coating and is not featured in this catalogue. Please contact Delavan's Customer Service Team for further details.

# **APPLICATION 34 - CENTRIFUGE CAKE WASHING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, TJ	LF	DFAC, DFTJ, FB Cap & Body		HNS
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# APPLICATION 35 - GAS SCRUBBING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS
Hollow Cone Spray	AF, BE, AE, UC				
Solid Cone Spray	BI,BN,CM,BY,CJ				
Other Nozzles					

Due to the complex nature and variation of the different chemicals and gas scrubber designs please contact Delavan's Customer Service Team for advice on this application.

# **APPLICATION 36 - STEAM CONDITIONING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS
Hollow Cone Spray	AE				
Solid Cone Spray	BI, CJ				
Other Nozzles					

# **APPLICATION 37 - LIVESTOCK COOLING**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS, Swivels
Hollow Cone Spray	WA, WR, WRW	WG			
Solid Cone Spray	BL, BI, BN	WL			
Other Nozzles					

# APPLICATION 38 - FLASK DE-CONTAMINATION - NUCLEAR

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AZ, AQ	LQ			HNS
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

# **APPLICATION 39 - MAGNOX EXTINGUISHING - NUCLEAR**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS
Hollow Cone Spray					
Solid Cone Spray	C1				
Other Nozzles					

# APPLICATION 40 - ETCH AND WASH CHEMICAL SPRAYING - ELECTRONICS

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	CAC	LF, LD, LE			HNS, Swivels, Adjustable Joints
Hollow Cone Spray	WM	WG			
Solid Cone Spray	BL	WL			
Other Nozzles					

# APPLICATION 41 - BELT COOLING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC				HNS
Hollow Cone Spray					
Solid Cone Spray	BT, BQ				
Other Nozzles					

# APPLICATION 42 - EDGE TRIMMING

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC(0°), AQ(0°)				HNS
Hollow Cone Spray					
Solid Cone Spray					
Other Nozzles					

Note:- Delavan have manufactured many types of edge trimming nozzles for a wide range of industries. Please call Delavan's Customer Service Team for further details.

# **APPLICATION 43 - WATER ADDITION**

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray					HNS
Hollow Cone Spray	AE, WR, RA				
Solid Cone Spray					
Other Nozzles					

# APPLICATION 44 - SAFETY SHOWERS AND EYEBATHS

Delavan produce a wide range of safety showers, Eyebaths and custom designed units for all applications. Please contact Delavan's Customer Service Team for further advice and a copy of the Safety Showers literature.

# APPLICATION 45 - DECORATIVE WATER FEATURES

SPRAY TYPE	ONE PIECE THREADED	TIP TYPE	DELA-FIT	OTHER	ACCESSORIES
Flat Spray	AC, AN, TJ				
Hollow Cone Spray	BE, WRA, WRS				
Solid Cone Spray	CM, BY				
Other Nozzles					

HNS = Header Nozzle Socket

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