







INDUSTRIAL SPRAY NOZZLES - SPRAY DRYING

SDX V Spray Drying Nozzle

Delavan Spray Drying Nozzles - Taking Our Technical Leadership One Step Further

FEATURES AND BENEFITS

- · Wear benefits are positively retained during assembly.
- · Compatible with current SDX range.
- · New internal design reduces pressure loss through the nozzle.
- Smaller and lighter compact design which is more durable, easy to clean and can be rapidly stripped down and reassembled.
- · No wrenches or tools are required to install the nozzle.
- Minimal friction due to nozzle design permitting 10-20% lower operating pressure than conventional slotted distributor nozzle for equivalent atomization quality.
- Extended pump life due to lower operating pressure.

SPRAY CHARACTERISTICS

- The nozzle produces a hollow cone spray pattern with uniform particle size distribution even at low operating pressure.
- Reduction in fine particles is possible due to lower pressure requirements.
- Flow rats are certified to be within +/-5% of rated capacity at 69 Bar.G. and within +/-5% of rated spray angle when tested with water.
- Unique, patented single inlet spiral swirl chamber offers increased nozzle life, improved uniformity, density or solubility.

CONSTRUCTION AND MATERIALS

- 5 piece construction with 'O' ring seals.
- · Nozzle body and adaptors are available in 316 Stainless Steel.
- · Wear parts are in Tungsten Carbide.
- · O-rings are in Silicone or Viton.
- · O-ring seals allow assembly and disassembly without tools.

ORDER EXAMPLE

Please indicate all component parts and materials when ordering.



CAPACITY CHARTS



SDX® V Assembly Description and Part Numbers				SDX* V Swirl Chamber Part Numbers				
Description	Part Number		Material	Ref	Standard*	Flat Back*	Open*	Crown Retainer
(A) Body	W194990013		Stainless Steel	SA	W194720014	W198290014	W209710018	W211240012
	W194990708		17-4 PH Stainless	SB	W194720022	W198290022	W209710026	W211240020
(B) Orifice O-Ring	W155100164		Silicone	SC	W194720030	W198290030	W209710034	W211240038
	A313520163		Viton	SD	W194720048	W198290048	W209710042	W211240046
(C) Orifice Disc	W19581-XXX*		Tungsten Carbide	SE	W194720055	W198290055	W209710059	W211240053
(D) Swirl Chamber	See Swirl Cham	ber Chart		SF	W194720063	W198290063	W209710067	W211240061
(E) Retainer O-Ring	W155100180		Silicone	SG	W194720071	W198290071	W209710075	W211240079
	A313520189		Viton	SH	W194720089	W198290089	W209710083	W211240087
(F) Standard Retainer	W195490013		Stainless Steel	SI	W194720097	W198290097	W209710091	W211240095
Cross-Milled Retainer	W198300003		Stainless Steel	SJ	W194720105	W198290105	W209710109	W211240103
Crown Retainer	See Swirl Chamber Chart			*Stand	and Swirt Chambor upon	s Standard Retainer W	05400013 or Crown B	otsinor W/20070001
End Plate	W053660012		Tungsten Carbide	120000000000000000000000000000000000000		Cross Milled Retainer V		
(G) Body O-Ring	W155100222		Silicone			rown Retainer (Various		
	A313520221		Viton	*Crown	Retainer Part Number	rs to be used with Oper	Swirt Chamber	
(H) Adaptor	BSPT Thread	NPT Thread			4			
1/4 Adaptor	W195000010	W196350018	Stainless Steel					1 4
3/8 Adaptor	W195000028	W196350026	Stainless Steel		1			- E
		W196350034		/				
1/2 Adaptor	W195000036	W196350034	Stainless Steel					9
1/2 Adaptor 3/4 Adaptor	W195000036 W195000044	W196350034 W196350042	Stainless Steel Stainless Steel	+	(-(-))			——————————————————————————————————————
					(P)			1162") Diameter
3/4 Adaptor Removal Tool	W195000044		Stainless Steel					mm (1 62") Di
3/4 Adaptor	W195000044 W196440025		Stainless Steel DurAl					41mm (1.62") Di
3/4 Adaptor Removal Tool SDX® Adaptor	W195000044 W196440025 W19636	W196350042	Stainless Steel DurAl Stainless Steel					41mm (1 62")
3/4 Adaptor Removal Tool SDX® Adaptor SDX® II/III Adaptor	W195000044 W196440025 W19636 W19637	W196350042	Stainless Steel DurAl Stainless Steel	38	.1mm (1.5°) A/F		56mm (2.2")	41 mm (1 6.2 h)

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