

MINI-SDX

INDUSTRIAL SPRAY NOZZLES - SPRAY DRYING

FEATURES

The unique swirl chamber is the heart of Delavan's Mini-SDX nozzle design. The single inlet spiral configuration produces a natural, free vortex pattern. Friction is minimized, permitting 10-20% lower operating pressure than conventional slotted distributor nozzles. This lengthens both pump and nozzle life.

SPRAY CHARACTERISTICS

- *The Mini-SDX nozzle produces a hollow cone spray pattern with relatively uniform droplet size and particle distribution.*
- *Nominal spray angle is 70°-75°.*
- *Flow rates on water at 69 Bar.G. range from as low as 24.2 litres/hour to as high as 208 litres/hour, depending on nozzle size.*

CONSTRUCTION AND MATERIALS

- *Five part construction (see part and material list below).*
- *The orifice disc, a pressed fit insert, is recessed to protect against damage if dropped or hit.*
- *Wrench tighten only when replacing orifice disc by pressing into nozzle body with assembly tool, otherwise no wrench tightening should be done during assembly. Wrench tightening may result in fracture of the swirl chamber.*
- *The patented single inlet swirl chamber minimizes plugging and maximizes particle uniformity.*
- *The Viton O-Ring seal allows assembly and disassembly without tools.*
- *Only assembly tool (P/N 36386) is needed for changing the pressed fit orifice disc.*

ORDER EXAMPLE

When ordering specify the following:

- 1) *Assembly part number from capacity chart*
- or 2) *Part numbers of individual items.*

Max. Design Pressure: 350 Bar.G.

Max. Design Temperature: 150°.



CAPACITY CHARTS



Mini SDX® Assembly Description and Part Numbers			Mini SDX® Swirl Chamber Part Numbers		
Description	Part Number	Material	Ref	Tungsten Carbide	Ceramic
(A) Body	A329320020	Stainless Steel	SW1	A507910014	A329330011
(B) Orifice Disc	A00902-XXX*	Tungsten Carbide	SW2	A507910022	A329330029
(C) Swirl Chamber	See Swirl Chamber Chart		SW3	A507910030	A329330037
(D) O-Ring	A313520130	Viton	SW4	A507910048	A329330045
(E) 1/4 NPTF Adaptor	A329310013	Stainless Steel			
(E) 3/8 NPTF Adaptor	A329310021	Stainless Steel			
Assembly Tool	A363860006	Stainless Steel			
Mini SDX® Seal Kit	(24 O-Rings)				
	A491090005	Viton			