

SDX V SPRAY DRYING NOZZLE

DELAVAN SPRAY DRYING NOZZLES - TAKING OUR TECHNICAL LEADERSHIP ONE STEP FURTHER

FEATURES & BENEFITS

- * Wear parts 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 readily 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 atomisation 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 rates are certified to be within +/-5% of rated capacity at 65 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 product 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

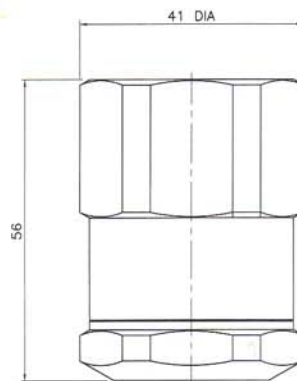
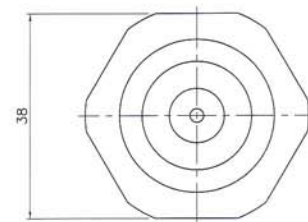
ORDER EXAMPLE

Please indicate all component parts and materials when ordering. Please see order sheet.



SDX V PAT PENDING

THE LATEST VERSION OF THE WORLD'S LEADING SIMPLEX SPRAY-DRYING NOZZLE, USING THE ORIGINAL, FREE-VORTEX SWIRL CHAMBER FROM DELAVAN, THE COMPANY THAT INVENTED IT.



OVERALL NOZZLE DIMENSIONS

SDX V CAPACITY CHART

Swirl Chamber	Orifice Disc	Spray Angle @ 68 Bar.G	Flow Rate in Litres/Hour at Bar.G.								
			15	25	50	75	100	125	150	200	300
SBV	W19581-033	70	37.5	47.7	65.8	79.2	89.9	99.5	108	123	149
SAV	W19581-038	80									
SCV	W19581-034	60									
SBV	W19581-040	75	45.9	58.1	81.8	98.3	112	124	135	156	187
SAV	W19581-048	85									
SDV	W19581-036	60									
SCV	W19581-039	70	54.6	70.0	98.3	118	135	150	164	189	228
SAV	W19581-059	85									
SEV	W19581-035	50									
SDV	W19581-039	65	63.4	81.5	115	136	159	179	193	225	271
SBV	W19581-054	80									
SAV	W19581-069	90									
SEV	W19581-038	55									
SDV	W19581-048	65	71.9	92.9	131	158	181	202	220	253	307
SCV	W19581-050	75									
SBV	W19581-062	85									
SFV	W19581-038	50									
SEV	W19581-041	60	80.7	106	146	178	205	227	248	285	347
SCV	W19581-054	75									
SBV	W19581-069	85									
SFV	W19581-040	50									
SEV	W19581-044	60									
SDV	W19581-052	70	89.1	116	164	199	229	257	279	321	390
SCV	W19581-060	80									
SBV	W19581-077	90									
SFV	W19581-043	50									
SEV	W19581-048	60	97.5	126	179	216	248	279	303	351	428
SDV	W19581-056	70									
SCV	W19581-066	80									
SGV	W19581-040	45									
SFV	W19581-045	55	106	138	196	237	275	307	332	384	474
SEV	W19581-051	65									
SCV	W19581-071	80									
SGV	W19581-045	45									
SFV	W19581-051	55	124	160	229	277	321	360	390	451	559
SEV	W19581-058	65									
SDV	W19581-069	75									
SCV	W19581-083	85									
SGV	W19581-049	50									
SFV	W19581-056	60	141	182	260	315	364	404	439	512	627
SEV	W19581-064	70									
SDV	W19581-076	80									
SCV	W19581-094	90									
SGV	W19581-053	50									
SFV	W19581-060	60	158	205	293	356	409	459	505	585	711
SEV	W19581-070	70									
SDV	W19581-083	80									
SCV	W19581-107	90									
SGV	W19581-057	55									
SFV	W19581-065	65	176	228	327	394	454	514	559	646	795
SDV	W19581-092	80									
SHV	W19581-054	45									
SGV	W19581-060	55	192	247	358	436	501	562	615	715	895
SFV	W19581-070	65									
SEV	W19581-083	75	192	247	358	436	501	562	615	715	895
SDV	W19581-100	85									
SHV	W19581-057	45									
SGV	W19581-063	55	211	274	390	474	550	616	669	776	955
SFV	W19581-075	65									
SEV	W19581-089	75									
SDV	W19581-108	85									
SHV	W19581-066	50									
SGV	W19581-075	60	262	340	486	593	681	766	833	968	1170
SFV	W19581-089	70									
SEV	W19581-108	80									
SDV	W19581-133	90									
SHV	W19581-075	50									
SGV	W19581-086	65	315	407	585	715	826	929	1013	1174	1449
SFV	W19581-102	75									
SEV	W19581-125	85									
SIV	W19581-076	45									
SHV	W19581-083	55	367	477	681	829	955	1086	1182	1365	1690
SGV	W19581-097	65									
SFV	W19581-114	75									
SEV	W19581-141	85									
SIV	W19581-083	50									
SHV	W19581-090	60	420	546	780	948	1097	1232	1338	1544	1912
SGV	W19581-106	70									
SFV	W19581-127	80									
SIV	W19581-088	50									
SHV	W19581-099	60	474	612	880	1087	1238	1399	1518	1771	2160
SGV	W19581-119	70									
SFV	W19581-141	80									
SJV	W19581-085	45									
SIV	W19581-095	55	524	683	975	1185	1369	1555	1683	1950	2409
SHV	W19581-106	65									
SGV	W19581-128	75									
SFV	W19581-155	85									
SJV	W19581-094	45									
SIV	W19581-106	55	608	798	1139	1384	1606	1813	1968	2275	2875
SHV	W19581-120	65									
SGV	W19581-144	75									
SJV	W19581-103	50									
SIV	W19581-115	60	696	909	1292	1579	1827	2050	2236	2581	3193
SHV	W19581-133	70									
SJV	W19581-110	50									
SIV	W19581-128	60	748	1030	1460	1790	2064	2303	2523	2925	3613
SHV	W19581-145	70									
SJV	W19581-118	55									
SIV	W19581-135	65	872	1136	1625	1988	2294	2570	2810	3250	4015
SHV	W19581-156	75									
SJV	W19581-127	55	968	1257	1790	2176	2514	2818	3058	3555	4392
SIV	W19581-149	65									
SJV	W19581-135	60	1063	1384	1957	2370	2745	3030	3326	3861	4760
SIV	W19581-155	70									
SJV	W19581-151	60	1154	1495	2122	2561	2963	3303	3584	4167	5085
SJV	W19581-158	65	1257	1616	2294	2771	3204	3586	3831	4473	5543
SJV	W19581-185	70	1519	1961	2773	3397	3922	4386	4804	5547	6794

COMPONENT PARTS

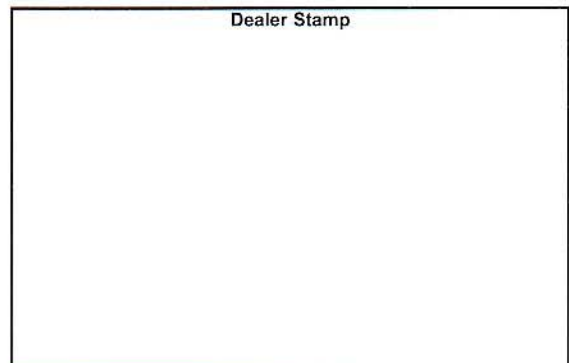
Description	Part Number	Material
Standard Body	W19499	316 Stainless Steel
Cone Faced Body		
70°	W19600-1	316 Stainless Steel
80°	W19600-2	316 Stainless Steel
90°	W19600-3	316 Stainless Steel
1/4" BSPT Standard Adaptor*	W19500-1	316 Stainless Steel
3/8" BSPT Standard Adaptor*	W19500-2	316 Stainless Steel
1/2" BSPT Standard Adaptor*	W19500-3	316 Stainless Steel
3/4" BSPT Standard Adaptor*	W19500-4	316 Stainless Steel
SDX I Interface Adaptor	W19598	316 Stainless Steel
SDX II & III Interface Adaptor	W19599	316 Stainless Steel
Retaining Disc	W19549	316 Stainless Steel
Orifice 'O' Ring	W155100164	Silicone
Orifice 'O' Ring	A313520163	Viton
Body 'O' Ring	W155100222	Silicone
Body 'O' Ring	A313520221	Viton
Retaining Disc 'O' Ring	W155100180	Silicone
Retaining Disc 'O' Ring	A313520189	Viton
Swirl Chamber	W19472-XXX	TungstenCarbide
Orifice Disc	W19581-XXX	Tungsten Carbide
Removal Tool	W15336	Aluminium

* NPT and Butt weld available on request

SDX V ASSEMBLY PROCEDURE

- >Place the nozzle body thread side up on a flat surface
- >Insert the orifice seal
- >Place the orifice disc inside the nozzle body with the "orifice nose" ie: the smallest diameter first inserted into the body orifice.
- >Place the swirl chamber on top of the orifice, with the larger diameter flat surface (swirl end) in contact with the orifice disc.
- >Ensure that the retaining disc 'o' ring is fitted onto the retaining disc.
- >Push the retaining disc into the body until the unit is pressed against the back face of the swirl chamber. At this point the retaining disc 'o' ring will have locked into position with the corresponding groove in the nozzle body.
- >Place body seal into body seal groove positioned above the threads on the outside of the body.
- >Pick up the assembled unit and screw into the female adaptor.
- >Hand tighten the assembly.

Dealer Stamp



* +/- 5% tolerance on flow

* Flow charts are compatible with the whole of the SDX range

* Maximum operating pressure for SDX V = 350 Bar.G - please contact Delavan for confirmation of higher operating pressure

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