



Spray Drying



WELCOME TO DELAVAN

Meeting the **challenges**
of new
industries and *NEW markets*

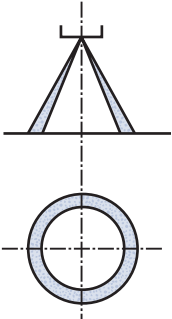
DELAVAN[®]
Spray Technologies

Special purpose nozzles for use in the Spray Drying industry covering a wide variety of products.

SECTION INDEX

Nozzle Type	Spray Characteristics	Spray Angles	Basic Features	Flow Range. L/Hour @ 70 Bar.G.	Page No.	
SPRAY DRYING	MINI-SDX	Uniform spray pattern with fine atomisation.	70° – 75°	1/4"-3/8" NPT Female threads. Hand tight assembly.	24,2 – 208,1	E.1-2
	SDX	Uniform spray pattern with fine atomisation.	45° – 90°	1/4"-3/4" NPT or BSPT Female threads.	76,5 – 2677	E.3
	SDX III	Uniform spray pattern with fine atomisation.	45° – 90°	1/4"-3/4" NPT or BSPT Female threads. Hand tight assembly.	76,5 – 2677	E.4
	MISC.	Bodies, Adaptors and Special Tools.	–	–	–	E.5
	CAPACITY CHART	Capacity charts for SDX and SDX III nozzle assemblies.	–	–	–	E.6-7
	KWIK-CHEK	Calibrated orifice gauge tool.	–	Three sizes available for 0,25-0,70mm, 0,60-3,30mm and 3,30-6,50mm	–	E.8

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Tel: +44 (0) 151 424 6821
Fax: +44 (0) 151 495 1043
e-mail:sales@delavan.co.uk
Web:www.delavan.co.uk



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 minimised, 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

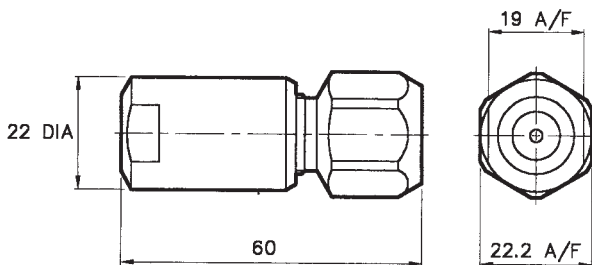
- Five part construction (see part and material list below).
- The orifice disc, a pressed fit insert, is recessed to protect against damage if dropped or hit.
- Wrench tighten only when replacing orifice disc by pressing into nozzle body with assembly tool, otherwise no wrench tightening should be done during assembly. Wrench tightening may result in fracture of the swirl chamber.
- The patented single inlet swirl chamber minimises plugging and maximises 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°C.



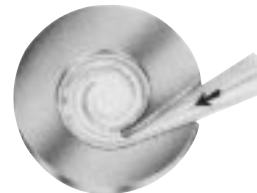
MATERIALS AND WEIGHTS

DESCRIPTION	PART NO.	MATERIAL	WEIGHT (g)
Orifice Disc	902-XX*	Tungsten Carbide	8,5
Nozzle Body	32932	303 SS	62,4
Swirl Chamber	32933-X*	Ceramic	7,1
Swirl Chamber	50791-X*	Tungsten Carbide	9,9
O-Ring Seal	31352-013	Viton	2,3
1/4" NPTF Adaptor	32931-1	303 SS	85,0
3/8" NPTF Adaptor	32931-2	303 SS	71,0

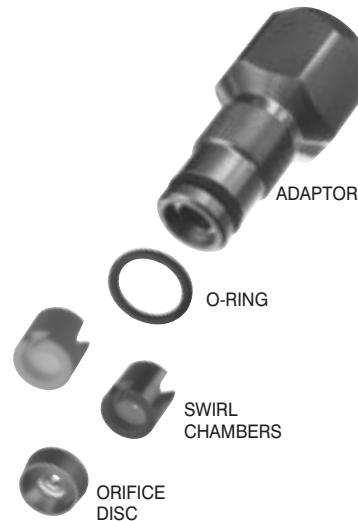
* Refer to capacity chart for dash number.
NOTE: - 50791-1 is equivalent to 32933-1.

SEAL KIT (24 SEALS)

PART NO.	DESCRIPTION	MATERIAL
49109	Seal Kit	Viton



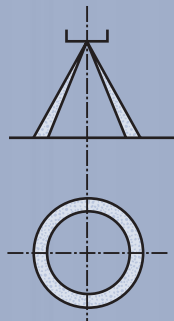
UNIQUE SWIRL CHAMBER



SPRAY DRYING

TYPE MINI-SDX

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Fax: +44 (0) 151 495 1043
e-mail: sales@delavan.co.uk
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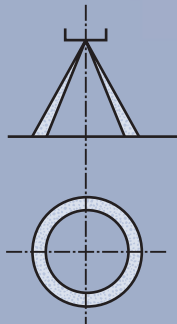


CAPACITY CHART

ASSEMBLY PART NUMBER	ADAPTOR	INLET THREAD (NPTF)	SWIRL CHAMBER	ORIFICE DISC	FLOW RATE IN LITRES/HOUR AT BAR.G.						APPROX. WEIGHT (g)
					34,5	69	138	207	276	345	
32936-47 32936-48	32931-1 32931-2	1/4 3/8	32933-4	902-18	17,4	24,2	34	42	48,4	53,7	133 119
32936-49 32936-50	32931-1 32931-2	1/4 3/8	32933-4	902-20	18,5	25,7	36,3	44,6	51,5	57,5	133 119
32936-51 32936-52	32931-1 32931-2	1/4 3/8	32933-4	902-22	20,4	28,4	40,1	49,2	56,8	63,6	133 119
32936-53 32936-54	32931-1 32931-2	1/4 3/8	32933-4	902-24	23,5	32,5	46,2	56,4	65,1	72,6	133 119
32936-55 32936-56	32931-1 32931-2	1/4 3/8	32933-4	902-27	26,9	37,8	53,3	65,5	75,7	84,7	133 119
32936-1 32936-2	32931-1 32931-2	1/4 3/8	32933-1	902-22	29,5	41,6	59,0	72,2	83,2	93,1	133 119
32936-3 32936-4	32931-1 32931-2	1/4 3/8	32933-1	902-24	34	47,3	67	82	94,6	105,9	133 119
32936-5 32936-6	32931-1 32931-2	1/4 3/8	32933-1	902-27	38,6	54,9	77,6	95	109,8	122,6	133 119
32936-7 32936-8	32931-1 32931-2	1/4 3/8	32933-1	902-30	44,3	62,4	88,2	108,2	124,8	140,1	133 119
32936-9 32936-10	32931-1 32931-2	1/4 3/8	32933-2	902-30	53,3	75,7	107,1	130,9	151,3	169,1	133 119
32936-11 32936-12	32931-1 32931-2	1/4 3/8	32933-2	902-33	60,1	85,1	120,3	147,5	170,2	190,3	133 119
32936-13 32936-14	32931-1 32931-2	1/4 3/8	32933-2	902-36	67	94,6	133,9	163,8	189,2	211,5	133 119
32936-15 32936-16	32931-1 32931-2	1/4 3/8	32933-2	902-38	70,7	100,3	141,9	173,3	200,5	224,4	133 119
32936-17 32936-18	32931-1 32931-2	1/4 3/8	32933-2	902-40	77,6	109,7	155,1	189,9	219,4	245,1	133 119
32936-19 32936-20	32931-1 32931-2	1/4 3/8	32933-2	902-42	80,2	113,5	160,8	196,7	227	253,5	133 119
32936-21 32936-22	32931-1 32931-2	1/4 3/8	32933-2	902-44	82,9	117,3	164,2	203,5	234,6	262,1	133 119
32936-23 32936-24	32931-1 32931-2	1/4 3/8	32933-2	902-46	87	123	174	213	245,9	275	133 119
32936-25 32936-26	32931-1 32931-2	1/4 3/8	32933-2	902-48	90,8	132,4	187,3	229,3	264,8	296,2	133 119
32936-27 32936-28	32931-1 32931-2	1/4 3/8	32933-2	902-50	97,6	138,1	195,2	239,1	276	308,7	133 119
32936-29 32936-30	32931-1 32931-2	1/4 3/8	32933-2	902-52	105,6	149,4	211,5	258,8	298,9	334,1	133 119
32936-31 32936-32	32931-1 32931-2	1/4 3/8	32933-2	902-54	109,7	155,1	219,4	268,6	310,2	346,9	133 119
32936-33 32936-34	32931-1 32931-2	1/4 3/8	32933-2	902-56	113,5	158,9	224,7	275,4	317,8	355,6	133 119
32936-37 32936-38	32931-1 32931-2	1/4 3/8	32933-3	902-50	117,3	169,5	239,5	293,6	339,0	378,3	133 119
32936-39 32936-40	32931-1 32931-2	1/4 3/8	32933-3	902-52	127,5	180,8	255,8	313,3	361,7	404,4	133 119
32936-41 32936-42	32931-1 32931-2	1/4 3/8	32933-3	902-54	135,1	191,1	270,1	331	382,1	427,1	133 119
32936-43 32936-44	32931-1 32931-2	1/4 3/8	32933-3	902-56	143,8	202,4	286,4	350,7	404,8	452,5	133 119
32936-45 32936-46	32931-1 32931-2	1/4 3/8	32933-3	902-58	147,2	208,1	294,3	360,6	416,2	465,3	133 119

All Spray Angles 70°-75°.

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e-mail:sales@delavan.co.uk
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SPRAY CHARACTERISTICS

- The SDX series nozzles produce a hollow cone spray pattern with uniform particle size distribution even at low operating pressures.
- Flow rates are certified to be within $\pm 5\%$ of rated capacity at 69 Bar.G. and within $\pm 5^\circ$ 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.
- 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.
- Reduction in fine particles is possible due to lower pressure requirements.

CONSTRUCTION AND MATERIALS

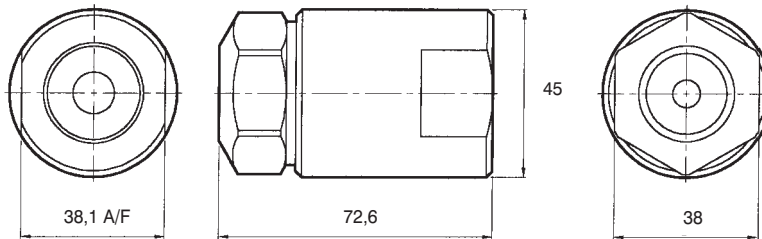
- Eight part construction (see part and material list below).
- Nozzle bodies, screw pins and adaptors are available in 316 Stainless Steel. Other materials available on special request.
- Orifice discs are easily removable and are available in Tungsten Carbide, Chrome Carbide and Ceramic as standard.
- Swirl chambers are standard in Tungsten Carbide, Hardened Stainless Steel or Ceramic.
- End plates are available in Tungsten Carbide, Chrome Carbide and Ceramic.
- Combined swirl chamber/end plate is available in Tungsten Carbide only.
- Seals are available in Nylon, PTFE, Copper, Hard Fibre and Aluminium.

ORDER EXAMPLE

Please indicate all component parts and materials when ordering.

Max. Design Pressure: 500 Bar.G.
Max. Design Temperature: 540°C (Metal Seals),
150°C (Other Seals).

WEIGHTS	
Assembly Size	Weight (g)
1/4"	680
3/8"	666
1/2"	640
3/4"	612



NOZZLE ASSEMBLY

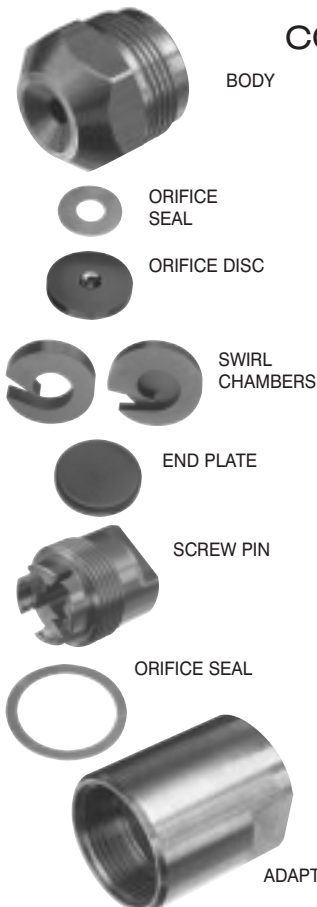


ADAPTOR

SPRAY DRYING

TYPE SDX

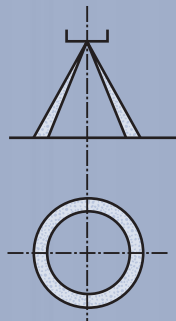
COMPONENT PARTS, MATERIALS AND WEIGHTS



Description	Part No.	Material	Weight (g)
Body	29776	316 SS	153,0
Orifice Seal	29772-1	Nylon	-
	29772-3	Aluminium	-
	29772-6	PTFE	-
	29772-7	Hard Fibre	-
	29772-4	Copper	-
Orifice Disc	703-XXX*	Tungsten Carbide	11,4
	704-XXX	Chrome Carbide	11,4
	608-XXX	Ceramic	-
Swirl Chamber	29794-XX*	Hardened SS	8,5
	31212-XX	Tungsten Carbide	17,0
	30655-XX	Ceramic	-
	W01380-XX	Tungsten Carbide	28,4
End Plate	W05366	Tungsten Carbide	11,4
	29953	Chrome Carbide	11,4
	34330	Ceramic	-
Screw Pin	29777	316 Stainless Steel	91,0
Body Seal	29773-1	Nylon	-
	29773-3	Aluminium	-
	29773-6	PTFE	-
	29773-7	Hard Fibre	-
	29773-4	Copper	-
1/4" BSPT Female Adaptor	29775-9	316 Stainless Steel	370,0
3/8" BSPT Female Adaptor	29775-11		
1/2" BSPT Female Adaptor	29775-13		
3/4" BSPT Female Adaptor	29775-15		

* Specify orifice size and swirl chamber suffix from capacity chart.

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Max. Design Pressure: 350 Bar.G.
Max. Design Temperature: 150°C.

SPRAY CHARACTERISTICS

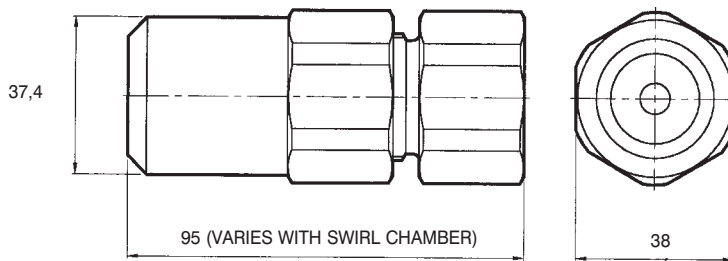
- The SDX series nozzles produce a hollow cone spray pattern with uniform particle size distribution even at low operating pressures.
- Flow rates are certified to be within $\pm 5\%$ of rated capacity at 65 Bar.G. and within $\pm 5^\circ$ of rated spray angle when tested with water.
- Unique, patented single inlet spiral swirl chamber offers increased nozzle life, improved product uniformity, density or solubility.
- 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.
- Reduction in fine particles is possible due to lower pressure requirements.

CONSTRUCTION AND MATERIALS

- Six part construction (see part and material list below).
- O-ring seals allow assembly and disassembly without tools.
- Body and adaptors are produced from hexagon barstock with other materials in round bar with flats.
- Nozzle bodies and adaptors are available in 316 Stainless Steel. Other materials are available on special request.
- Orifice discs are easily removable and are available in Tungsten Carbide, Chrome Carbide and Ceramic.
- Swirl chambers are standard in Tungsten Carbide, Hardened Stainless Steel or Ceramic.
- End plates are available in Tungsten Carbide and Ceramic.
- Combined swirl chamber/end plate is available in Tungsten Carbide only.
- O-Rings are in Silicone or Viton.

ORDER EXAMPLE

Please indicate all component parts and materials when ordering.

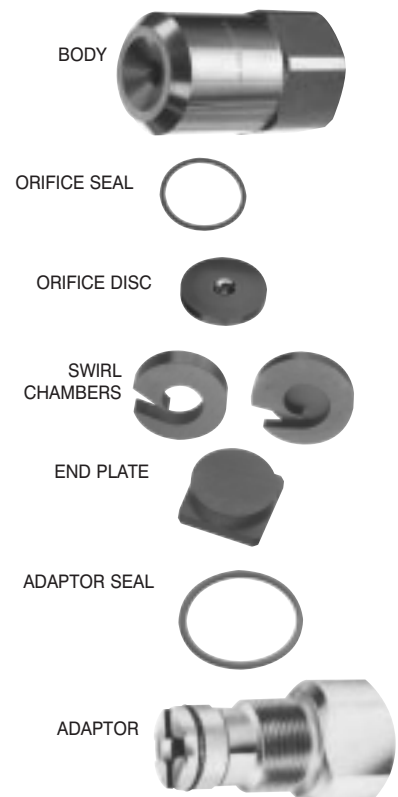


WEIGHTS

Assembly Size	Weight (g)
1/4"	743
3/8"	729
1/2"	714
3/4"	700

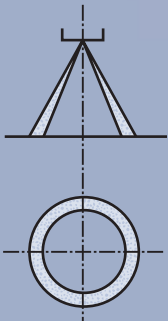
COMPONENT PARTS, MATERIALS AND WEIGHTS

Description	Part No.	Material	Weight (g)
Body	W11300	316 Stainless Steel	276
Orifice O-Ring	31351-66 31352-016	Silicone Viton	- -
Orifice Disc	703-XXX* 704-XXX 608-XXX	Tungsten Carbide Chrome Carbide Ceramic	11,4 11,4 -
Swirl Chamber	29794-XX*	Hardened Stainless Steel	8,5
Swirl Chamber	31212-XX	Tungsten Carbide	17
Swirl Chamber	30655-XX	Ceramic	-
Swirl Chamber with End Plate Combined	W01380-XX	Tungsten Carbide	28,4
End Plate	38331** W11430	Tungsten Carbide Ceramic	42,5 -
Adaptor O-Ring	31351-65 31351-32	Silicone Viton	- -
1/4" BSPT Female Adaptor	W11301-1	316 Stainless Steel	369
3/8" BSPT Female Adaptor	W11301-2		354
1/2" BSPT Female Adaptor	W11301-3		340
3/4" BSPT Female Adaptor	W11301-4		312



* Specify orifice size and swirl chamber suffix from capacity chart.
** End plate not required with W01380 swirl chamber.

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The following are various special bodies, adaptors and tools that are available for the SDX nozzle range.

CONE FACED BODIES

These are designed to prevent build up of sprayed product on the nozzle face and are available with cone angles of 70°, 80° and 90°.

CONE FACED BODY PART NUMBERS

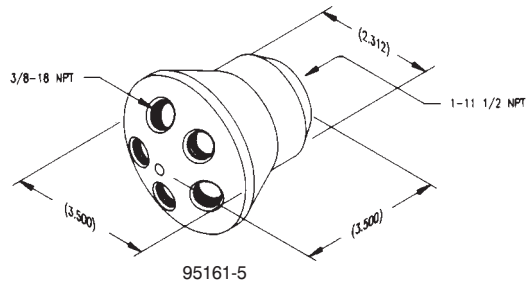
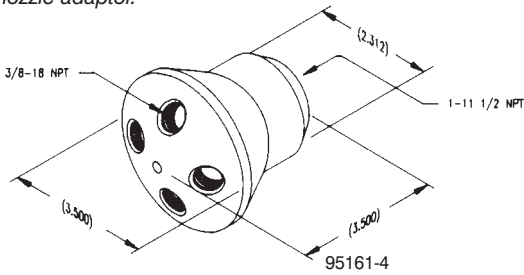
Nozzle Type	70°	80°	90°
SDX	20319-1	20319-2	20319-3
SDXIII	W11882-1	W11882-2	W11882-3



SDX III TYPE

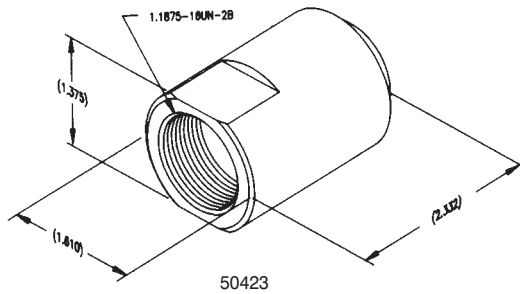
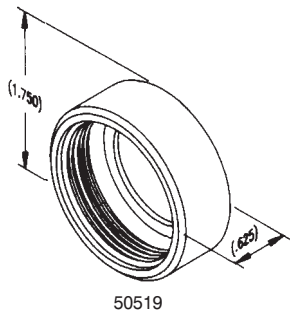
MULTIPLE NOZZLE ADAPTORS

Where spray dryers permit, special adaptors are available to provide multiple nozzle installations. These have a 1" NPTF inlet with 3/8" NPTF outlets so that nipples can be fitted on to which the nozzles will be mounted. The part numbers are 95161-4 for the four nozzle adaptor and 95161-5 for the five nozzle adaptor.



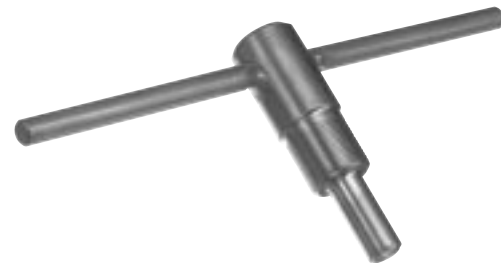
THREAD GUARDS

These are designed to protect the threads and sealing surfaces during cleaning of the SDX bodies and SDX III adaptors. The part numbers are 50519 for the SDX and 50423 for the SDX III.



ASSEMBLY TOOLS

Part number 36386 for changing Mini-SDX orifice discs.



36386

Part number W11307 for insertion and removal of SDX and SDX III swirl chambers.



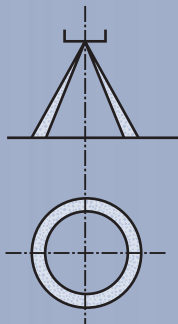
W11307

There is an additional tool number W11336 which is designed for removal of orifice discs which have become embedded with product.

SPRAY DRYING

TYPE SDX

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Web:www.delavan.co.uk



Coltec Industries



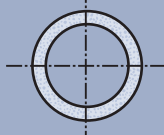
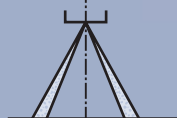
CAPACITY CHART - SDX & SDX III

SWIRL CHAMBER SUFFIX	ORIFICE DISC	SPRAY ANGLE AT 69 Bar.G.	FLOW RATE IN LITRES/HOUR AT Bar.G.										
			15	25	50	75	100	125	150	200	300	400	500
SB	703-33	70	37,5	47,7	65,8	79,2	89,9	99,5	108	123	149	171	188
SA	703-38	80											
SC	703-34	60											
SB	703-40	75	45,9	58,1	81,8	98,3	112	124	135	156	187	216	240
SA	703-48	85											
SD	703-35	60											
SC	703-39	70	54,6	70,0	98,3	118	135	150	164	189	228	264	293
SA	703-59	85											
SE	703-35	50											
SD	703-39	65	63,4	81,5	115	136	159	179	193	225	271	312	347
SB	703-54	80											
SA	703-69	90											
SE	703-38	55											
SD	703-48	65	71,9	92,9	131	158	181	202	220	253	307	358	394
SC	703-50	75											
SB	703-62	85											
SF	703-38	50											
SE	703-41	60	80,7	106	146	178	205	227	248	285	347	401	439
SC	703-54	75											
SB	703-69	85											
SF	703-40	50											
SE	703-44	60											
SD	703-52	70	89,1	116	164	199	229	257	279	321	390	451	508
SC	703-60	80											
SB	703-77	90											
SF	703-43	50											
SE	703-48	60	97,5	126	179	216	248	279	303	351	428	497	554
SD	703-56	70											
SC	703-66	80											
SG	703-40	45											
SF	703-45	55	106	138	196	237	275	307	332	384	474	546	612
SE	703-51	65											
SC	703-71	80											
SG	703-45	45											
SF	703-51	55											
SE	703-58	65	124	160	229	277	321	360	390	451	559	646	722
SD	703-69	75											
SC	703-83	85											
SG	703-49	50											
SF	703-56	60											
SE	703-64	70	141	182	260	315	364	404	439	512	627	722	811
SD	703-76	80											
SC	703-94	90											
SG	703-53	50											
SF	703-60	60											
SE	703-70	70	158	205	293	356	409	459	505	585	711	811	929
SD	703-83	80											
SC	703-107	90											
SG	703-57	55											
SF	703-65	65	176	228	327	394	454	514	559	646	795	921	1032
SD	703-92	80											
SH	703-54	45											
SG	703-60	55	192	247	358	436	501	562	615	715	895	1013	1139
SF	703-70	65											
SE	703-83	75	192	247	358	436	501	562	615	715	895	1013	1139
SD	703-100	85											
SH	703-57	45											
SG	703-63	55											
SF	703-75	65	211	274	390	474	550	616	669	776	955	1101	1242
SE	703-89	75											
SD	703-108	85											

* Maximum Operating Pressure for SDX III = 350 Bar.G.

*

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Tel: +44 (0) 151 424 6821
Fax: +44 (0) 151 495 1043
e-mail:sales@delavan.co.uk
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CAPACITY CHART - SDX & SDX III

SWIRL CHAMBER SUFFIX	ORIFICE DISC	SPRAY ANGLE AT 69 Bar.G.	FLOW RATE IN LITRES/HOUR AT Bar.G.											
			15	25	50	75	100	125	150	200	300	400	500	
SH	703-66	50												
SG	703-75	60												
SF	703-89	70	262	340	486	593	681	766	833	968	1170	1377	1548	
SE	703-108	80												
SD	703-133	90												
SH	703-75	50												
SG	703-86	65	315	407	585	715	826	929	1013	1174	1449	1675	1881	
SF	703-102	75												
SE	703-125	85												
SI	703-76	45												
SH	703-83	55												
SG	703-97	65	367	477	681	829	955	1086	1182	1365	1690	1950	2187	
SF	703-114	75												
SE	703-141	85												
SI	703-83	50												
SH	703-90	60	420	546	780	948	1097	1232	1338	1544	1912	2218	2486	
SG	703-106	70												
SF	703-127	80												
SI	703-88	50												
SH	703-99	60	474	612	880	1087	1238	1399	1518	1771	2180	2523	2829	
SG	703-119	70												
SF	703-141	80												
SJ	703-85	45												
SI	703-95	55												
SH	703-106	65	524	683	975	1185	1369	1555	1683	1950	2409	2791	3135	
SG	703-128	75												
SF	703-155	85												
SJ	703-94	45												
SI	703-106	55	608	798	1139	1384	1606	1813	1968	2275	2875	3269	3670	
SH	703-120	65												
SG	703-144	75												
SJ	703-103	50												
SI	703-115	60	696	909	1292	1579	1827	2050	2236	2581	3193	3709	4167	
SH	703-133	70												
SJ	703-110	50												
SI	703-128	60	748	1030	1460	1790	2064	2303	2523	2925	3613	4206	4722	
SH	703-145	70												
SJ	703-118	55												
SI	703-135	65	872	1136	1625	1988	2294	2570	2810	3250	4015	4664	5199	
SH	703-156	75												
SJ	703-127	55	968	1257	1790	2176	2514	2818	3058	3555	4392	5047	5658	
SI	703-149	65												
SJ	703-135	60	1063	1384	1957	2370	2745	3030	3326	3861	4760	5467	5884	
SI	703-155	70												
SJ	703-151	60	1154	1495	2122	2561	2963	3303	3594	4167	5085	5850	6499	
SK	703-126	50												
SJ	703-158	65												
SK	703-138	55	1257	1616	2294	2771	3204	3596	3831	4473	5543	6385	7169	
SM	703-113	40												
SJ	703-185	70												
SK	703-150	55	1519	1961	2773	3397	3922	4386	4804	5547	6794	7845	8770	
SM	703-128	45												
SK	703-160	60	1766	2280	3225	3950	4561	5099	5586	6450	7900	9122	10190	
SM	703-143	50												
SM	703-160	50	2208	2851	4032	4938	5702	6375	6983	8064	9876	11400	12700	

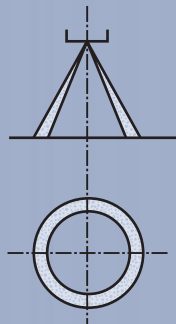
* Maximum Operating Pressure for SDX III = 350 Bar.G.

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SPRAY DRYING

TYPE SDX & SDX III

Contact our Helpline for any special requirements:
Tel: +44 (0) 151 424 6821
Fax: +44 (0) 151 495 1043
e-mail:sales@delavan.co.uk
Web:www.delavan.co.uk



Coltec Industries



The Kwik-Chek orifice gauges are designed for the rapid measurement of small hole diameters. Models are available to cover a range of hole diameters from 0,010" to 0,255" (0,25mm-6,50mm).

These gauges work on the principle of directly transferring diameter measurements from a sliding, tapered needle to a linear scale readout graduated in 0,001" or 0,02mm.

FEATURES

- No skill required. Untrained personnel can make fast and accurate measurements.
- Rapid and simple calibration. A setting master is provided with each gauge. Permits rapid periodic check on calibration and field readjustment, if necessary, by shop personnel.
- Magnified, direct reading scale permits easy reading of hole diameters to nearest 0,001" or 0,02mm.
- Precision ground tapered needle is made of 52-100 Steel and Chrome plated for maximum wear resistance.
- Positive Clutch which locks needle and scale at exact dimension of hole being measured.
- Convenient pocket size and weight makes these gauges ideal for roving inspectors and engineers.

ORDER EXAMPLE

Please specify the model number and Inch or Metric size when ordering.

INDIVIDUAL GAUGES

Model Number	Hole Size Range	
	Inches	Metric
10	0,010"-0,028"	0,25mm-0,70mm
20	0,025"-0,130"	0,60mm-3,30mm
30	0,130"-0,225"	3,30mm-6,50mm



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