



Twin-fluid atomizing nozzles for gas treatment

Series 76X



- Twin-fluid nozzle with external mixing for production of fine droplets
- Modular concept
- Wide range of combination options

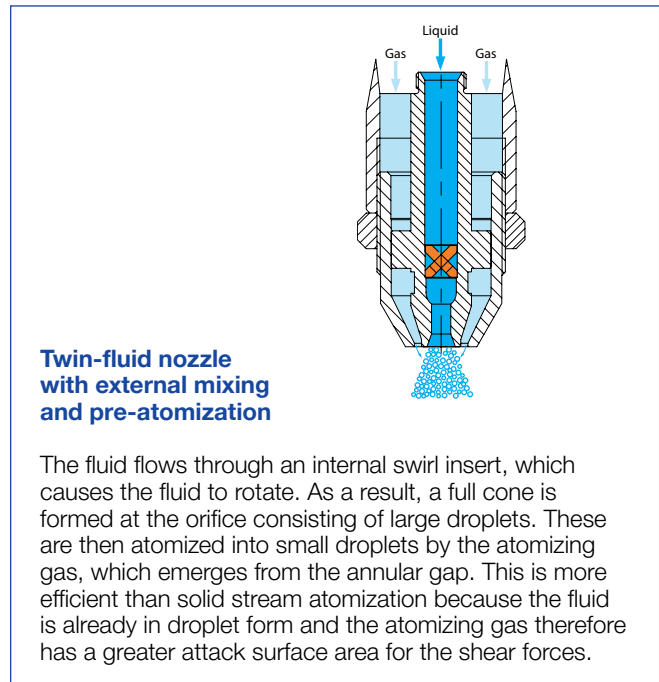
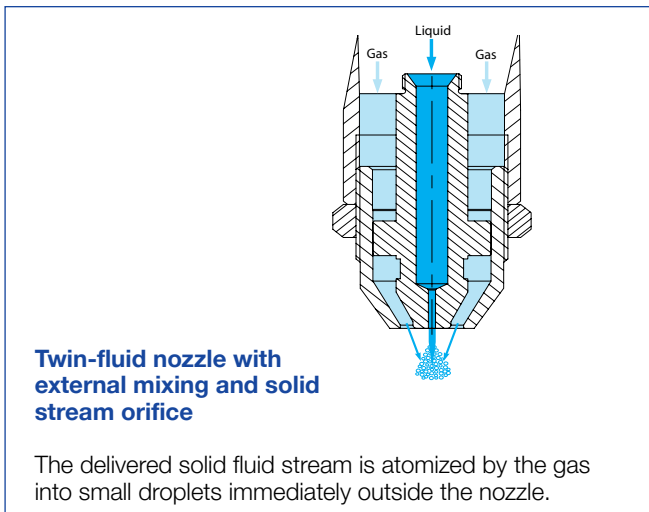
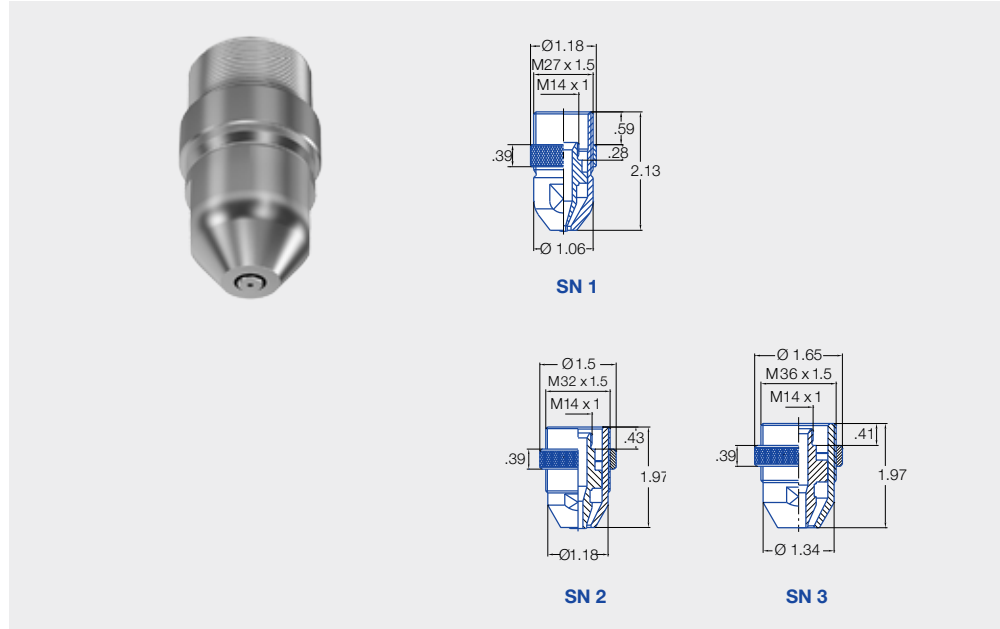
Applications:

Gas treatment, combustion processes.

Material:

Seawater-resistant stainless steels or stainless steels adapted to the combustion process.

- Solid stream nozzles for high-viscosity suspensions and fluids
- Nozzles with pre-atomization for high atomization efficiency



Overview of nozzle sizes

Nozzle/series		Size	Reference air pressure dp [psi]	Air flow rate [SCFM]
Solid stream orifice	with pre-atomization			
760.XX0.1Y	761.XX6	SN 1	60	15
762.XX0.1Y	763.XX6	SN 1	60	27
764.XX0.1Y	765.XX6	SN 2	60	65
—	767.XX6	SN 3	60	75
766.XX0.1Y	—	SN 3	60	106



Twin-fluid atomizing nozzles for lance mounting Series 76X



Twin-fluid nozzle with external mixing and solid stream orifice

No.	Ordering no. Type	Flow rate						Atomizing air						Outside diameter of lance D [in]	
		B [in]	Flow Rate gal/min					Size	SCFM						
			p [psi]						p [psi]						
			15	10	7	4	1	15	30	45	60	75	90		
1	760.050	0.02	0.07	0.04	0.03	0.02	0.01	SN 1	7	11	15	18	22	26	1.18
	760.100	0.04	0.18	0.15	0.12	0.10	0.06								
	760.150	0.06	3.96	0.33	0.28	0.22	0.12								
	760.200	0.08	0.70	0.59	0.50	0.39	0.22								
	760.250	0.10	1.10	0.92	0.78	0.60	0.35								
	760.300	0.12	1.58	1.33	1.12	0.87	0.50								
2	762.150	0.06	0.40	0.33	0.28	0.22	0.12	SN 1	14	21	27	34	41	47	1.18
	762.200	0.08	0.70	0.59	0.50	0.39	0.22								
	762.250	0.10	1.10	0.92	0.78	0.60	0.35								
	762.300	0.12	1.58	1.33	1.12	0.87	0.50								
	762.320	0.13	1.80	1.51	1.27	0.99	0.57								
3	764.300	0.12	1.58	1.33	1.12	0.87	0.50	SN 2	32	49	65	81	97	113	1.50
	764.500	0.20	4.40	3.68	3.11	2.41	1.39								
4	766.300	0.12	1.58	1.33	1.12	0.87	0.50	SN 3	53	79	106	132	159	185	1.65
	766.500	0.20	4.40	3.68	3.11	2.41	1.39								

B = bore diameter

Materials on request

Twin-fluid nozzle with external mixing and pre-atomization

No.	Ordering no. Type	B [in]	E [in]	Flow rate						Atomizing air						Outside diameter of lance D [in]	
				Flow Rate (Gallons Per Minute)						Size	SCFM						
				15 psi	30 psi	45 psi	60 psi	75 psi	90 psi		p [psi]						
				15	30	45	60	75	90	15	30	45	60	75	90		
1	761.446.1Y.00	0.05	0.04	0.25	0.33	0.39	0.44	0.48	0.51	SN 1	7	11	15	18	22	26	1.18
	761.486.1Y.00	0.06	0.05	0.32	0.42	0.50	0.56	0.61	0.66								
	761.506.1Y.00	0.06	0.05	0.36	0.48	0.56	0.63	0.69	0.74								
	761.526.1Y.00	0.06	0.05	0.40	0.53	0.62	0.70	0.76	0.82								
	761.566.1Y.00	0.07	0.05	0.50	0.66	0.78	0.87	0.95	1.02								
	761.606.1Y.00	0.08	0.06	0.63	0.83	0.98	1.10	1.20	1.29								
2	763.446.1Y.00	0.05	0.04	0.25	0.33	0.39	0.44	0.48	0.51	SN 1	14	21	27	34	41	47	1.18
	763.486.1Y.00	0.06	0.05	0.32	0.42	0.50	0.56	0.61	0.66								
	763.506.1Y.00	0.06	0.05	0.36	0.48	0.56	0.63	0.69	0.74								
	763.526.1Y.00	0.06	0.05	0.40	0.53	0.62	0.70	0.76	0.82								
	763.566.1Y.00	0.07	0.05	0.50	0.66	0.78	0.87	0.95	1.02								
	763.606.1Y.00	0.08	0.06	0.63	0.83	0.98	1.10	1.20	1.29								
3	765.486.1Y.00	0.06	0.05	0.32	0.42	0.50	0.56	0.61	0.66	SN 2	32	49	65	82	97	113	1.5
	765.646.1Y.00	0.09	0.07	0.80	1.06	1.24	1.39	1.52	1.64								
	765.746.1Y.00	0.13	0.07	1.42	1.88	2.21	2.48	2.71	2.91								
4	767.646.1Y.00	0.09	0.07	0.80	1.06	2.49	1.39	1.52	1.64	SN 3	38	57	75	94	113	132	1.65
	767.766.1Y.00	0.13	0.09	1.60	2.11	1.24	2.79	3.05	3.28								
	767.846.1Y.00	0.16	0.13	2.49	3.30	3.88	4.36	4.76	5.12								

B = bore diameter · E = narrowest free cross section

Materials on request