

External mixing two-fluid nozzle
KEM type for mixing air
KEM**S** type for mixing **steam**



KYORITSU GOKIN CO., LTD.

KEM type – External mixing with air –

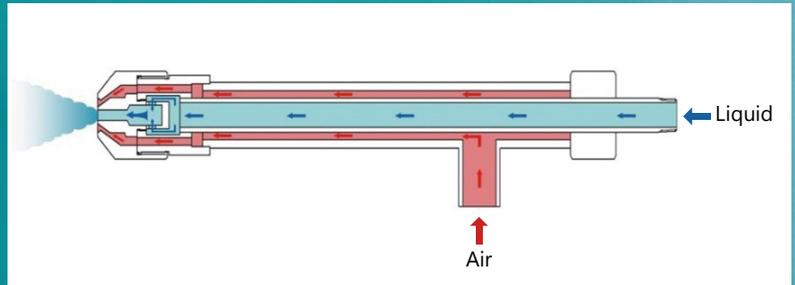
Features

- High clogging resistance
- Stable spray even though small flow rate
- Easy maintenance

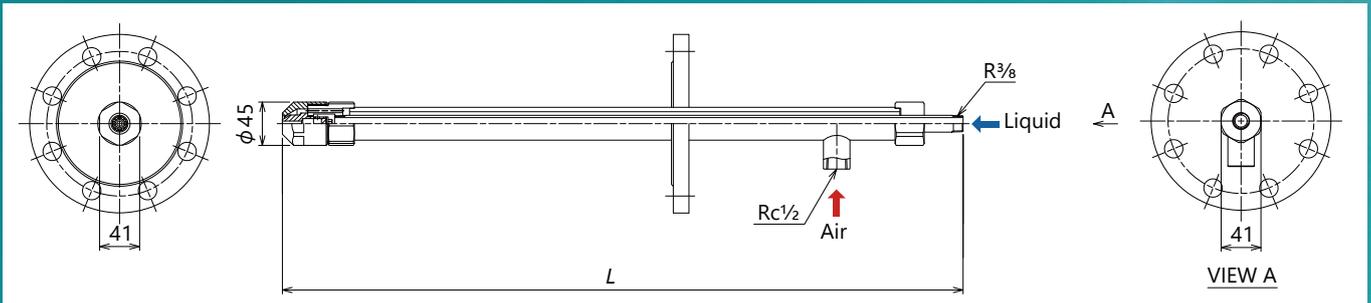
Material

Principal parts: Stainless steel(standard: SUS316L)
 Nozzle tip: SUS316L, C-22
 *Please ask an Everloy representative for other material.

Inner structure



Shape



Model number list

Model number	Criterion water flow rate [L/h]	Min. diameter for liquid [mm]	Air flow rate [m³/h(nor)]	Water flow rate [L/min]
KEM 200	200	2.2	32.0	3.30
KEM 400	400	3.0	64.0	6.67
KEM 600	600	3.5	60.0	10.00
KEM 800	800	4.0	80.0	13.33
KEM 1000	1000	4.2	100.0	16.67

Spray pattern

Model No.	Criterion water flow rate [L/h]	Air pressure [MPa]	Water pressure [MPa]	Air flow rate [m³/h(nor)]	Water flow rate [L/min]	Air-Water volume ratio	Spray pattern value [mm]		
							D	L	W
KEM 200	200	0.30	0.28	32.0	3.33	160	4500	500	180
								1000	280
								2000	480
								3000	580
KEM 400	400	0.11	0.29	64.0	6.67	160	4500	500	180
								1000	260
								2000	480
								3000	700
KEM 600	600	0.41	0.30	60.0	10.00	100	4000	500	180
								1000	260
								2000	500
								3000	620
KEM 800	800	0.37	0.28	80.0	13.33	100	4500	500	220
								1000	300
								2000	500
								3000	660
KEM 1000	1000	0.49	0.25	100.0	16.67	100	4500	500	260
								1000	340
								2000	540
								3000	680

KEMS type – External mixing with Steam –

Features

Special structure to spray steam

High clogging resistance

Stable spray even though small flow rate

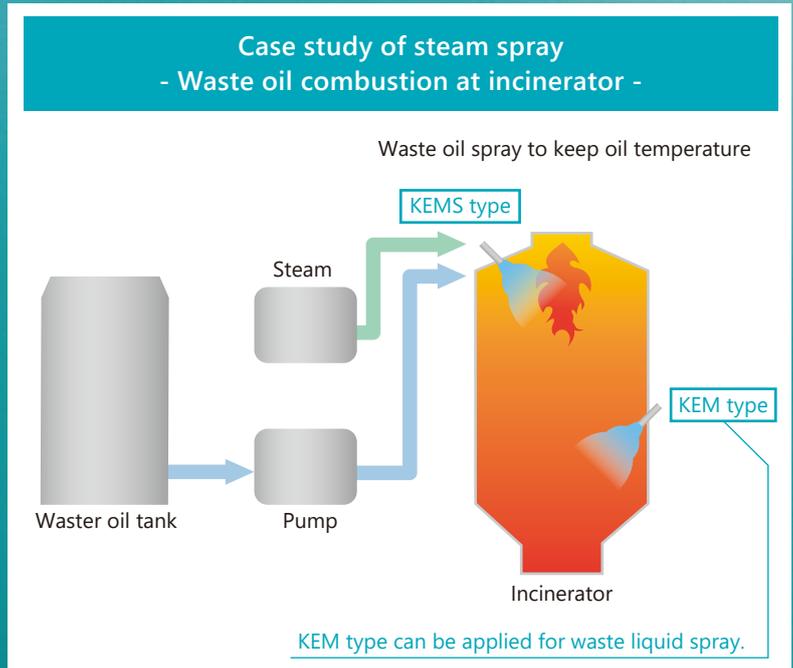
Easy maintenance

Material

Principal parts: Stainless steel(standard: SUS316L)

Nozzle tip: SUS316L, C-22

*Please ask an Everloy representative for other material.



Model number list

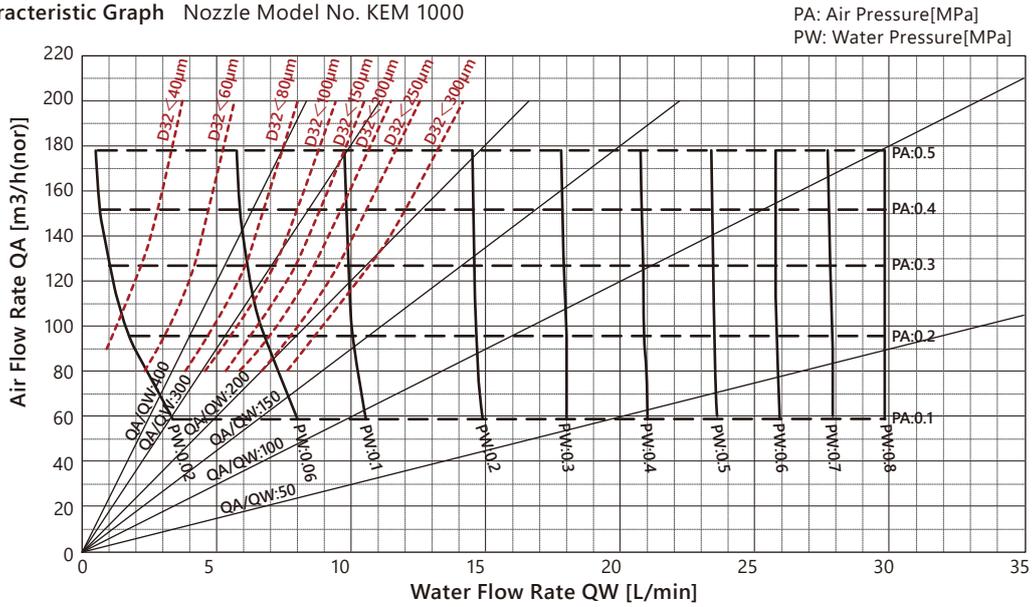
Model number	Criterion water flow rate [L/h]	Min. diameter for liquid [mm]	Steam flow rate [kg/h]	Water flow rate [L/min]
KEMS 200	200	2.2	70.0	3.5
KEMS 400	400	3.0	120.0	7.0
KEMS 600	600	3.5	160.0	12.0
KEMS 800	800	4.0	200.0	14.0
KEMS 1000	1000	4.2	200.0	16.0

Spray pattern

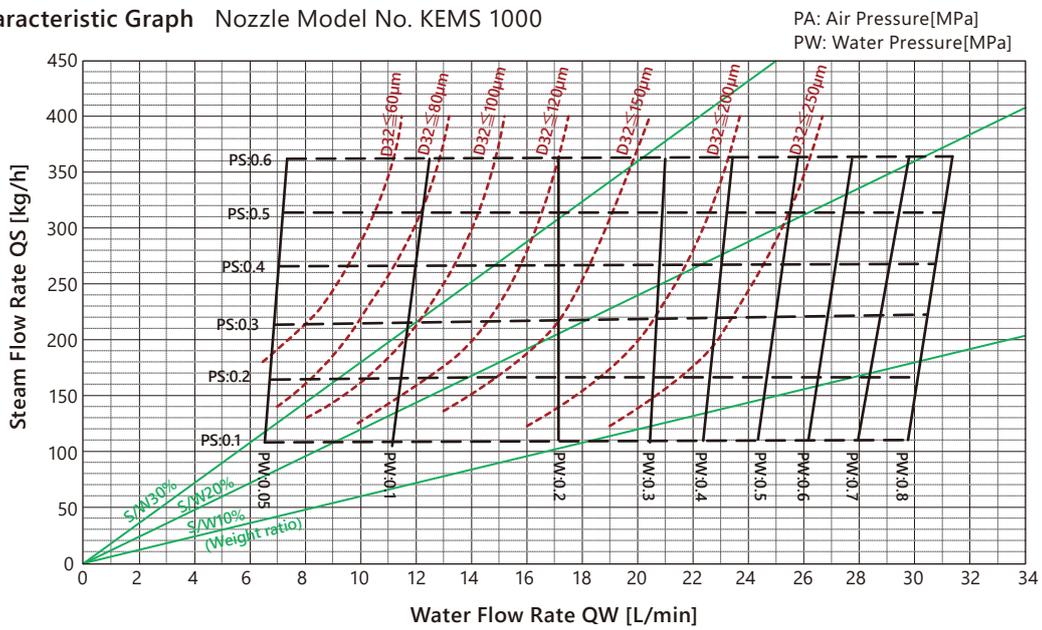
Model No.	Criterion water flow rate [L/h]	Steam pressure [MPa]	Water pressure [MPa]	Steam flow rate [kg/h]	Water flow rate [L/min]	Steam/ Water volume ratio	Spray pattern value [mm]		
							D	L	W
KEMS 200	200	0.30	0.30	70	3.5	0.33	4500	500	260
								1000	420
								2000	660
								3000	840
KEMS 400	400	0.33	0.30	120	7.0	0.29	5500	500	280
								1000	420
								2000	600
								3000	820
KEMS 600	600	0.30	0.36	160	12.0	0.22	5500	500	280
								1000	460
								2000	680
								3000	920
KEMS 800	800	0.31	0.23	200	14.0	0.24	6000	500	220
								1000	360
								2000	600
								3000	760
KEMS 1000	1000	0.27	0.18	200	16.0	0.21	6500	500	260
								1000	360
								2000	600
								3000	760

Performance data

● P-Q Characteristic Graph Nozzle Model No. KEM 1000



● P-Q Characteristic Graph Nozzle Model No. KEMS 1000



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