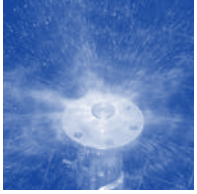
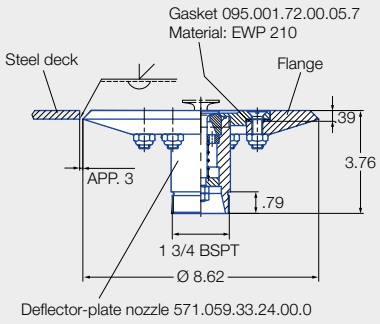
Deflector-plate nozzles
Series 571



Applications:
Cleaning deck surfaces in the event of NBC contamination.

- Uniform, flat and coarse-droplet spray circle
- Low wind susceptibility, large-area fluid impact
- Recessed installation

Other housing versions possible on request.



Deflector-plate nozzle 571.059.33.24.00.0

Spray angle	Ordering no. / Type	E Ø [in]	Flow Rate p [psi] gal/min					Flow Rate p [psi] SCFM				
			75	90	100	120	130	75	90	100	120	130
180°	**571.059**	.08	17.62	18.94	20.68	22.01	23.33	2.35	2.53	2.77	2.94	3.12
	571.179	.11	34.79	38.30	40.95	44.04	46.68	4.65	5.12	5.47	5.89	6.24

Standard material: Lock nuts = 316Ti SS · Spring: 1.4300 · All other components: 2.0920 (aluminum bronze)
Flange not included in the scope of delivery. Available on request.

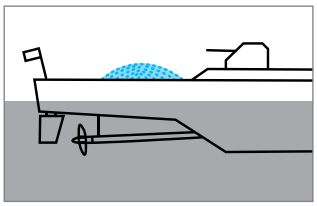
NATO/BW number available on request.

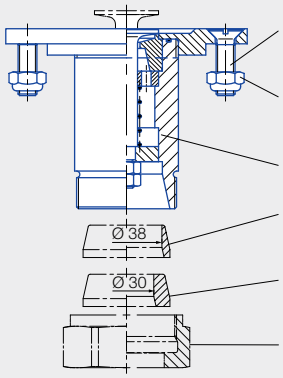
Design recommendations
Spray water quantity:
Approx. 1 SCFM (1.32 gal/min) is calculated per tonne displacement. According to the construction specifications of the German Armed Forces for naval ships, 0.14 SCFM (1.06 gal/min) is required per m^2 of deck area.

However, it was possible to prove in tests that .66–.79 gal/min is sufficient for coverage of the deck surfaces due to the low spray losses of the Lechler nozzles used when combined.

Spray diameter

Pressure	Type 571.059.33.24 Ø [ft]	Type 571.179.33.24 Ø [ft]
75	23	24
90	24	24
100	21	23
120	21	23
130	21	23

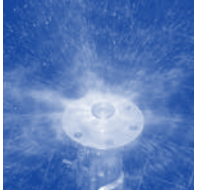

Spray circle diameter at 116 psi (according to BWB)
Type 571.059: approx. 20 ft
Type 571.179: approx. 23 ft



Countersunk screw ordering no.: 6 ea.	**095.012.1C.00.35.0** **M10 x 35 DIN 963** Material: 1.4301
Countersunk screw ordering no.: 6 ea.	**095.011.1C.00.14.0** **M10 DIN 985** Material: 1.4301
Nozzle ordering no.:	**571.XXX.33.24**
Brazed conical nipple ordering no.:	**095.016.3F.01.30.0** **A38 DIN 86148** Material: 2.0872
Brazed conical nipple ordering no.:	**095.016.3F.04.10.0** **A30 DIN 86148** Material: 2.0872
Union nut Hex 60 ordering no.:	**095.011.3E.00.12.0** Material: 2.0966

Other connection flanges and mounting types on request.

Deflector-plate nozzles
Series 571/500.289

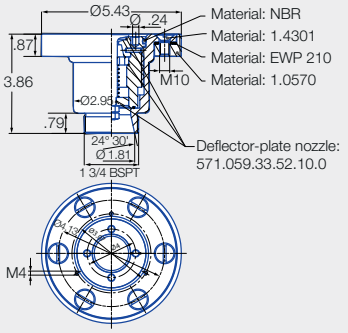


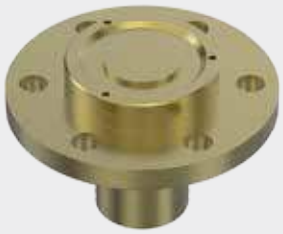
Applications:
Cleaning deck surfaces in the event of NBC contamination.

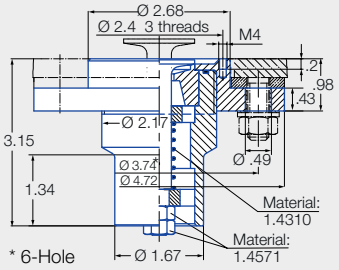
■ **Series 571**
Modular-design deflector-plate nozzle where the nozzle is guided. This allows simple mounting/ disassembly, e. g. for cleaning purposes or in areas with high mechanical loads (e. g. in the area of the guns).

■ **Series 500.289**
Deflector-plate nozzle for mounting using stud bolts and clamp couplings (e. g. Straub Grip-L) from the inside of the ship.

■ **Recessed installation**

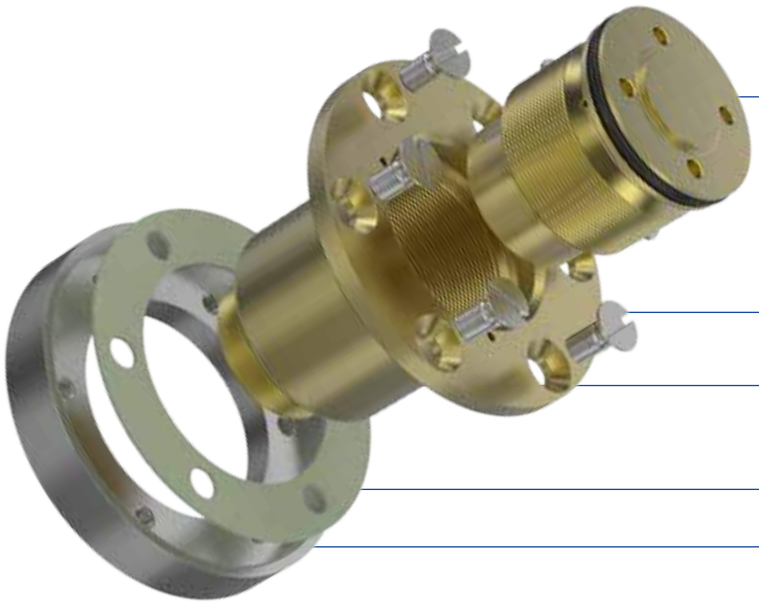




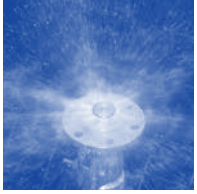


Spray angle	Ordering no. / Type	E Ø [in]	V̇ p [psi] gal/min					p [psi] SCFM				
			75	90	100	120	130	75	90	100	120	130
180°	**571.059.33.52**	0.08	17.62	18.94	20.68	22.01	23.33	2	3	3	3	3
	571.179.33.52	0.11	34.79	38.30	40.95	44.04	46.68	5	5	5	6	6
	500.289.33.00	0.08	17.62	18.94	20.68	22.01	23.33	2	3	3	3	3

Standard material: Lock nuts = 316Ti SS · Spring: 301 SS · All other components: AlBz8 (aluminum bronze)



CamouTech system
Series 500.286/600



The CamouTech system was developed especially to reduce the IR signature (e. g. heating up due to the sun). Thanks to large-area spraying of the ship surfaces, these are cooled so that they are almost at the ambient temperature. An additional benefit is active protection against NBC contamination.

The Lechler CamouTech system consists of two components:

■ CamouSpray

The ship's hull and all superstructures are sprayed using the CamouSpray system. The nozzles recessed in the ship wall do not offer any radar signature and are extended only in operation when the corresponding water pressure is present. The resulted coarse-droplet water film has low susceptibility to wind drift which cools the outer shell efficiently.

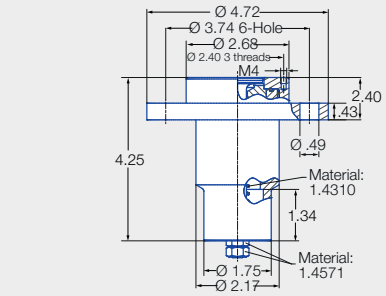
■ CamouJet

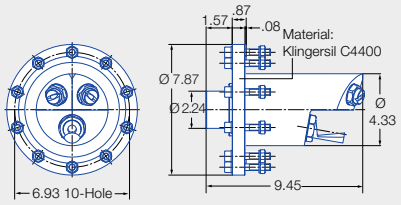
The CamouJet system is used for shielding hot exhaust gases that are discharged above the water line at the rear of the ship. This system consists of three spray heads that are arranged around the exhaust pipe and enclose and cool the exhaust gas stream.

Please contact us for further information.

CamouSpray single nozzle

CamouJet single nozzle





CamouSpray single nozzle

Spray angle	Ordering no. / Type	Flow Rate p [psi] gal/min 60	p [psi] gal/min 75	p [psi] gal/min 100	p [psi] gal/min 120
180°	**500.286.33.05**	7.93	8.88	10.57	11.23

CamouJet single nozzle

Ordering no. / Type	Flow Rate p [psi] gal/min 120	p [psi] in SCFM 120	Position
600.469.17	124.16	7.45	Port
600.470.17	124.16	5.89	Starboard
600.468.17	98.01	22.3	Midships