

HS NOZZLES D10, D12, D16, D20



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DESCRIPTION AND OPERATING INSTRUCTIONS



Hollow stream nozzles with shut-off for the delivery of firefighting water in the form of full jet and selectable spray jet, compliant with EN 671 and EN 15182*
Maximum working pressure: 16 bar.

***Approval for use on ships on the basis of EN 15182 with DNV certification
 MED-B-7307 and MED-D-1579**

Description:

HS nozzles can be conveniently and continuously adjusted from completely closed via full jet to spray jet between 0 - 120° by twisting the rubber coated head.

Switching sequence: Closed – full jet – spray jet.

The spray teeth have flat deflection surfaces on the inside and produce a spray the centre of which is directed forwards. This results in a large spray jet throw distance. Large drops for reach, small drops for cooling. As a result, universal and effective use of the HS nozzles is possible.

Advantages:

Low weight and absolute corrosion resistance to seawater.

The simple design means the nozzle is not prone to repair.

Low operating forces, extremely sturdy.

Completely maintenance-free!

Materials:

Operating head:	Rubber (NBR) and chrome-plated brass
Barrel:	Extremely impact-resistant plastic (POM)
Valve plate:	Polyamide
Valve rod:	Stainless steel

Flow rates and effective throw distances according to EN 15182:

6 bar	Full jet litres/min - throw distance (m)				Spray jet litres/min - throw distance (m)			
	HS 10	HS 12	HS 16	HS 20	HS 10	HS 12	HS 16	HS 20
	160-24	230-28	330-30	380-32	440-4	460-4.5	470-4.5	470-4.5

2 bar	Full jet litres/min - throw distance (m)				Spray jet litres/min - throw distance (m)			
	HS 10	HS 12	HS 16	HS 20	HS 10	HS 12	HS 16	HS 20
	90-16	130-17	170-18	220-21	250-4	265-4.5	275-4.5	275-4.5

Structure of HS nozzles:

All bills of material have an identical structure.

The only difference between types HS10, 12, 16, 20 is that they have different valve plates at the front. These are marked at the front as "D10", "D12", "D16" and "D20".

ID numbers without adapter, with male thread G2A:

HS10: 30377597 HS 12: 30377697 HS 16: 30377797 HS20: 30377897

ID numbers with Storz C (aluminium) adapter:

HS10 : 60426497 HS12 : 60426397 HS16 : 60425997 HS20 : 60426197

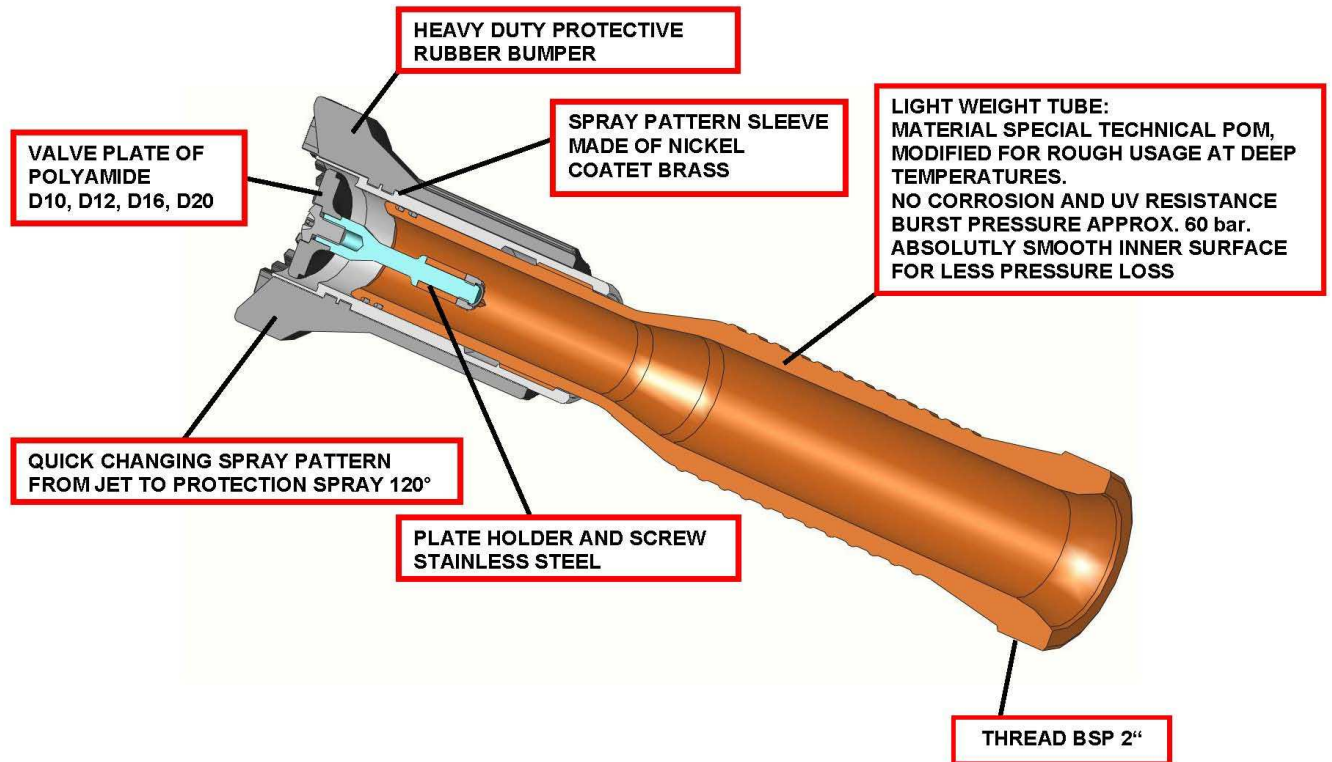
ID numbers with Storz C (brass) adapter:

HS10 : 60426499 HS12 : 60426399 HS16 : 60425999 HS20 : 60426199

Dimensions: with C-type adapter: 347 x 98 x 98 mm

Weight: 1.1 kg (aluminium) 1.6 kg (brass)

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Warnings and notices to guarantee safe operation:

- The very nature of fire extinguishing actions makes them dangerous and requires adequate training. This nozzle may only be operated by appropriately trained fire officers.
Any claims shall be rendered invalid in the event of inappropriate use. The manufacturer shall not be liable for any damage which is caused by improper use or non-observance of the safety instructions.
- Make sure that the nozzle adapter is fully connected to the hose adapter.
- Fill the hoses in such a way that you achieve slow and controlled build-up of the water pressure at the nozzle.
- Open and close the nozzle slowly.
- Rapid opening and closing will lead to sudden recoil. Fast opening and closing times will lead to water hammers.
- In use, the nozzle produces a recoil force, depending on the pressure and flow rate.
Make sure that a sufficient number of fire fighters can hold the nozzle safely and operate it for longer periods.
- Make sure that the nozzle is facing in a safe direction before it is opened.



- Do not direct it at people, animals or objects which may become damaged.
- Make sure you have sufficient flow and pressure available for the respective firefighting situation.
- Clean the nozzle by switching to the flushing function if soiling has accumulated on the inside. Indications of this are: reduction of flow quantities and asymmetrical or laterally incomplete spray jet.
- The hose may become kinked when used under very low pressure. A kink in the hose can lead to an insufficient flow rate for the firefighting situation.
- Do not use the nozzle as a tool to break any windows or similar.
- Do not use the nozzle as a shut-off valve to carry out pressure tests on hoses.
- Do not use the nozzle if you are standing on a ladder.
- Be careful when the ground is slippery (ice, snow, wet grass ...).
- Before detaching the hose, always make sure that it is no longer under pressure.

Product notes:

- If labels or information on the fitting is no longer legible, they should be replaced.
- Only for use with water (max. 60°C) and liquid extinguishing agent additives.
- The nozzle must not be constantly under pressure when stored.
- No structural modifications may be made to the nozzle in any way.
- The nozzle should be subjected to a visual inspection before and after every use in order to guarantee that it is in a proper operating condition. If something does not work or is difficult to operate, the reason must be investigated without delay before the next operation, and the problem must be eliminated by a qualified person. This also applies to excessive use or leaks.

List of possible misuses:

- Operation above the maximum nominal capacity (above 16 bar).
- Not drained of water when risk of frost.
- Dropped from a great height (>3m).
- Longer-term influence of temperatures above +60°C or below -40°C.
- Advancement in inside attack under great heat and with nozzle closed for longer period.
- Nozzle set down in the embers.