

# Compressed Air Work announces availability of new Tatum AFS 3 Free Flow helmet

Type tested according to DIN EN 15333–2

The certification body is DNV GL SE, identification number 0098  
The helmet has:

- Approval for contaminated waters
- Approval for use in liquids with a density greater than water
- Approval as head protection according to DIN EN 397 type A (construction site helmet)



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## Modular construction:

GRP helmet shell with stainless steel helmet ring, multi-valve block with integrated check valve between main and emergency air connection, sealing gas valves

(sluice valves) for the exhaled air, front frame to hold the pane and

Special accessories, balance weights

## Sealing gas valves (sluice valves) as outlet valves:

The exhaled air escapes via Sealing gas controlled exhaust valves. The inner valves are not in direct contact with of the environment, open and close first and are always pressurized inside and outside to the external environment. Penetration of water or other solutions into the helmet will thus prevented

## Automatic Free Flow System:

the breathing air is dosed automatically, Pressure controlled dosing valve, the minimum free flow is 10 %, the remaining quantity to the Breath is dosed on demand by a lung automatic control. A manual control allows to increase the free flow from 10% to 100%. The Permanently inflowing Free Flow reduces the CO<sub>2</sub> level inside the helmet significantly below the permissible limit value, an inner mask is therefore not required. The control diaphragm and thus also the control of the automatic dosing valve has no direct contact with the surroundings. The automatic dosage therefore also works in liquids with a density greater than water e.g. sludge. The automatic dosing valve divides the one part flows in front of the window, the other part floods the window with air lower part of the helmet. This prevents fogging of the visor and an enrichment of CO<sub>2</sub> excluded. The helmet internal pressure is adjusted to plus 18 to 20 mbar and is used as a control variable for the inlet of the breathing air.

## Hood with removable, integrated Diver Head Set:

The hood is attached to the Head size adjusted by the diver and equalizes the space between head and helmet off. The helmet needs no additional head attachment. The diver head set, loudspeaker and microphone, is housed in ear protection capsule. Due to the shape of the helmet shell, the construction of the head hood in connection with the hearing protection capsules a reduction of the noise level of 25 dB(A) is reached. The noise level in the hearing protection capsule Microphone enables interference-reduced communication with the land station. The Noise at the ear is reduced, which reduces the sound power of the speakers to < 10%. could be reduced than usual.

### Balance weights:

The balance weights ensure an even weight distribution on land and in water. The helmet is always balanced.

### Made in Germany:

The production of the components and modules, as well as the final assembly is done in Germany.