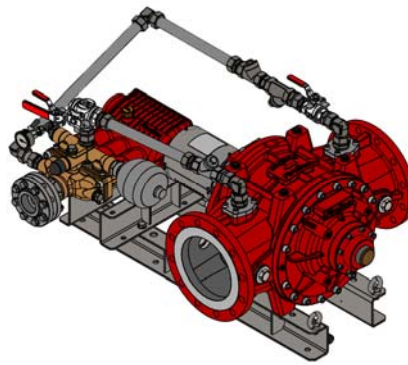

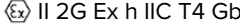



■ DATA SHEET PROPORTIONER FD10000 GEN III FOR STATIONARY EXTINGUISHING SYSTEMS.



■ 1. TECHNICAL DATA.

| Type | FD10000/0,5-S | FD10000/1-S | FD10000/3-S | FD10000/3/3-S |
|--|--|--|-------------|---------------|
| Proportioning rate | 0.5 % | 1 % | 3 % | 3% + 3% = 6% |
| Approvals | – |  FM Approval PR452158 ²⁾ | | – |
| Flow directions of water motor | Horizontal: “left → right” or “right → left” | | | |
| | Vertical: “top → bottom” or “bottom → top” | | | |
| Min. water flow rate ¹⁾ | 400 l/min | 400 l/min | 450 l/min | 650 l/min |
| Min. water flow rate FM | – | 690 l/min | 1060 l/min | – |
| Max. water flow rate | 10000 l/min | | | |
| Operating temperature ³⁾ | 5° C – 50° C (standard version) | | | |
| | 5° C – 80° C (High-Temp version) ^{x)} | | | |
| Storage temperature | -20° C – 80° C | | | |
| Operating pressure | 5 – 16 bar | | | |
| Weight ⁴⁾ | | | | |
| Freshwater version | 280 kg | 335 kg | 505 kg | 665 kg |
| Seawater version ^{x)} | 678 kg | 645 kg | 815 kg | 975 kg |
| ATEX classification ^{x)} for +5 °C ≤ T _a ≤ +60 °C |   | | | |

1) The nominal proportioning rate is achieved when reaching the specified minimum figure. Indication for proportioning of fluid Newtonian foam agents at operating pressure of 5 bar. For more detailed information, refer to page 2, item 3. “Minimum water flow rate”.

2) For information regarding FM Approved data, please refer to www.approvalguide.com.

3) Operating temp. is the max. ambient and medium (foam and extinguishing water) temperature. Max. foam agent temp. is generally limited to 50 °C.

4) Weight indications are based upon the standard version in dry condition. Special versions will differ.

X) Optional equipment.

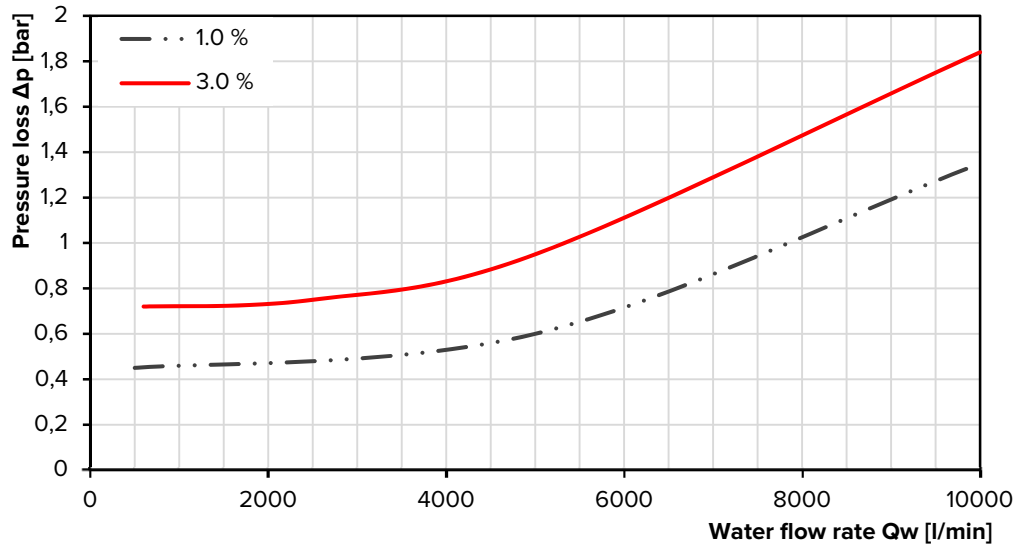


Valid for selected product types.

www.firedos.com

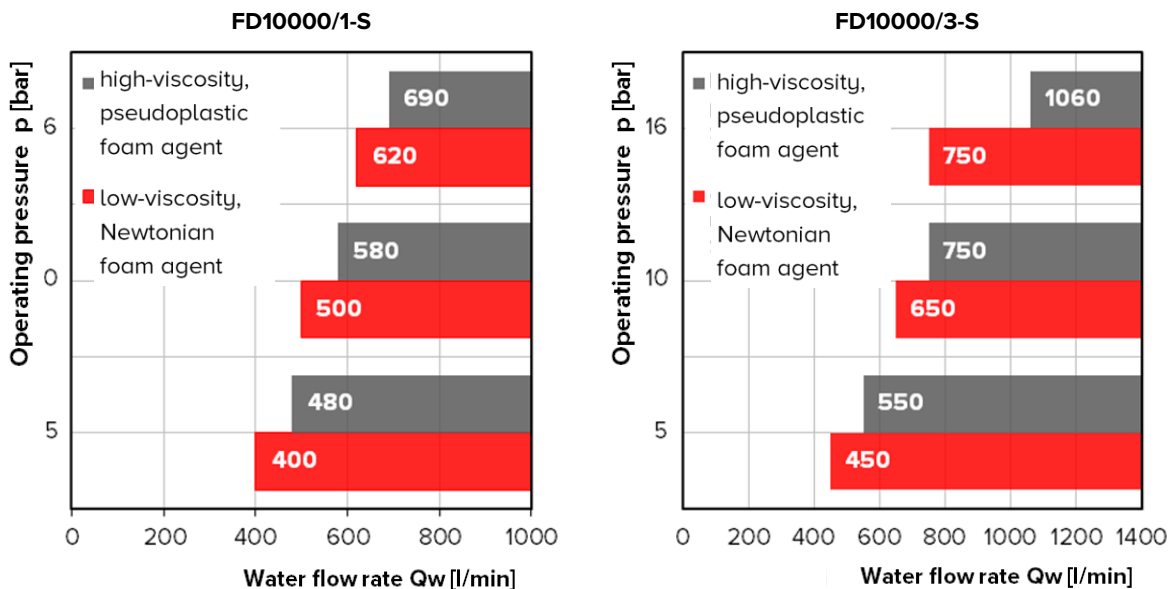
■ 2. PRESSURE LOSS.

Indication valid for operating pressure of 10 bar. For more information on different system conditions or proportioning rates, please contact us.



■ 3. MINIMUM WATER FLOW RATE.

The following diagrams show the effect of the operating pressure and foam agent viscosity on the minimum water flow rate (valid for viscosities in the graph at para. 4).

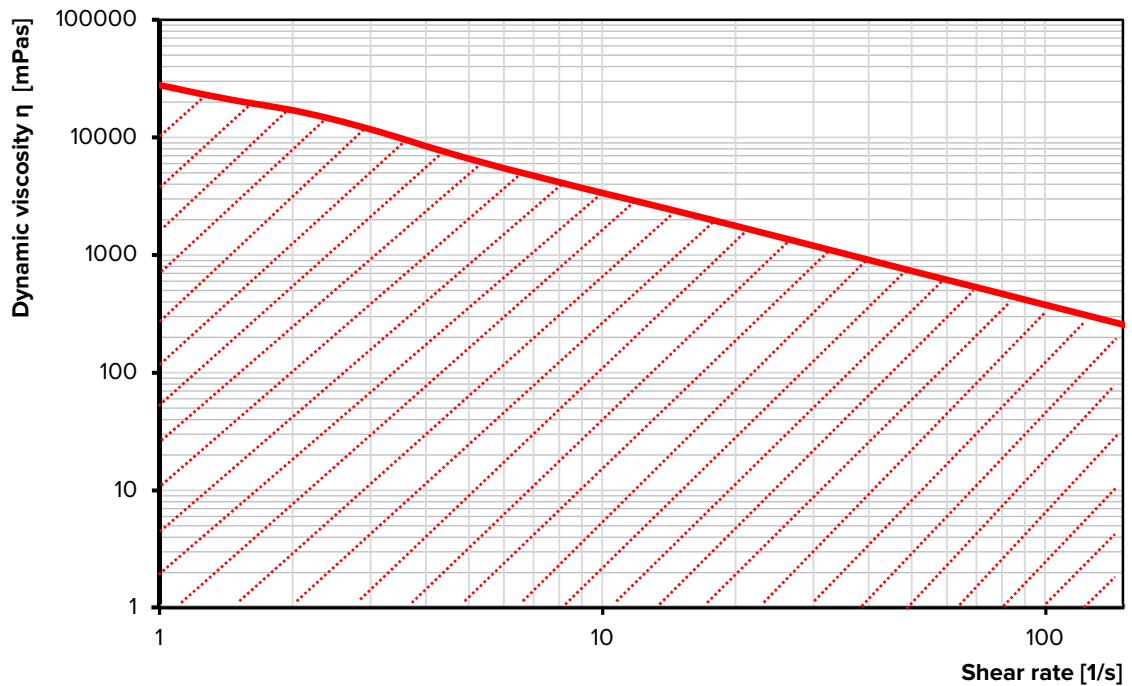


Comment:

The values can be reduced to approx. 35% by an optional flow reduction. The values increase by approx. 40% in the high-temp version. For values at other proportioning rates, please contact us.

4. FOAM AGENT VISCOSITY.

FireDos proportioners are suitable for all foam agents available on the market. For reference regarding units with an FM Approval, please find the corresponding/associated range of dynamic viscosity below (www.approvalguide.com). Contact us if the dynamic viscosity of your foam agent is higher than the values in the diagram. **Do not hesitate to request our support for the correct dimensioning of your suction line.**



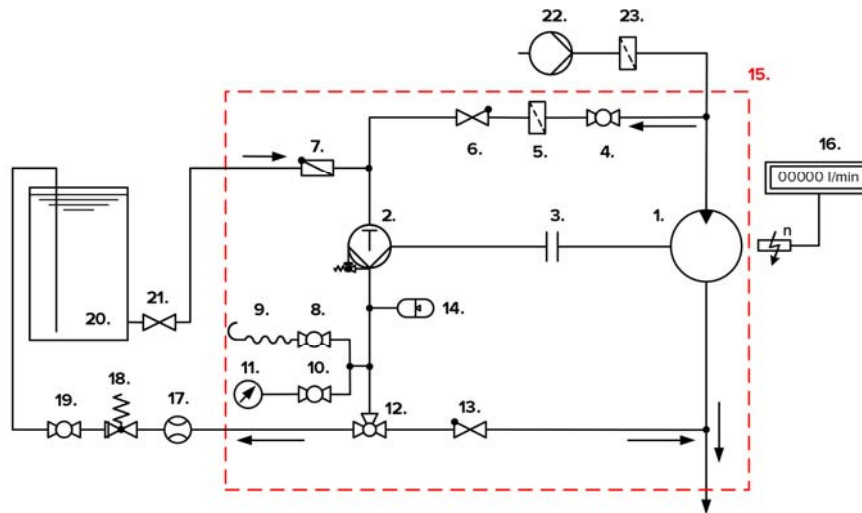
5. MATERIALS.

| | Freshwater version | Seawater version |
|---|---|--|
| Water motor ⁴⁾ | Cast Aluminium G-AlSi7Mg HC-coated, AlMgSi1 HC-PTFE-coated, stainless steel 316 / 316Ti, POM, PVDF, NBR, FKM | Cast Bronze G-CuSn10, stainless steel 316 / 316Ti, Aluminium-Bronze CuAl10Fe5Ni5-C-GC, POM, PVDF, NBR, FKM |
| Proportioning pump ⁴⁾ | Stainless steel 316 / SS316Ti / 318 LN, POM, FKM, Aluminium oxide ceramic Al2O3, Aluminium-Bronze CuAl10Ni5Fe5-C-GC | |
| Pipework ⁴⁾ | Stainless steel 316 / CF8M / SS316Ti, PTFE, | |
| Support frame | Stainless steel 304 / 316 | |

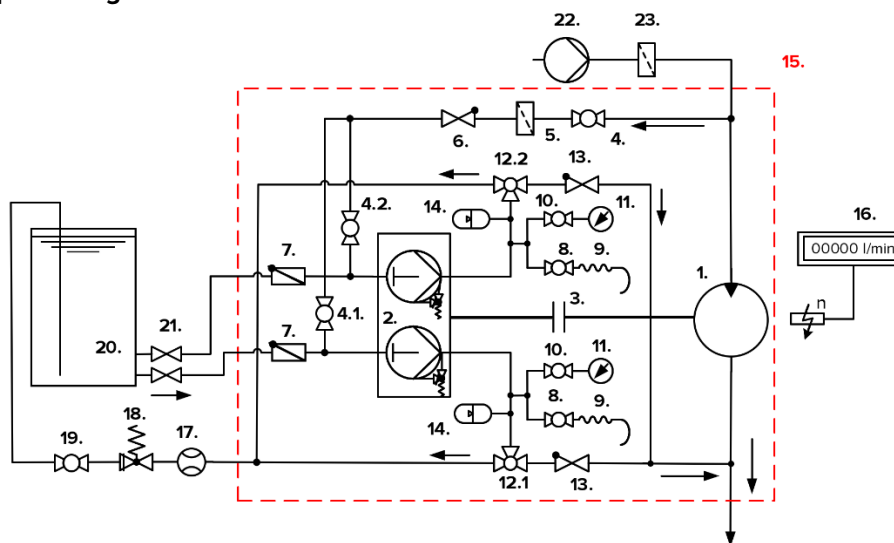
⁴⁾ media-exposed materials

6. FLOW DIAGRAM.

Proportioning rate 0.5% / 1% / 3%



Proportioning rate 3% + 3% = 6%

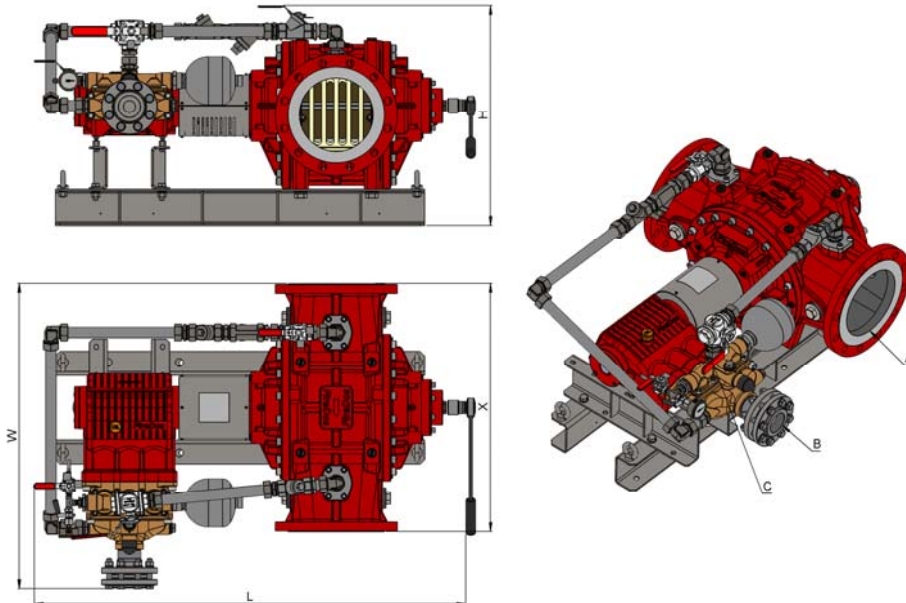


1. Water motor
2. Proportioning pump
3. Coupling
4. 2-way ball valve "Flushing/Priming"
- 4.1 "Flushing/Priming" pump head I
- 4.2 "Flushing/Priming" pump head II
5. Filter in the flushing line
6. Check valve in the flushing line
7. Non-return flap in the suction line
8. Air bleed valve
9. Air bleed hose
10. Shut-off valve pressure gauge
11. Pressure gauge
12. 3-way ball valve "Returning/Proportioning"

- 12.1 "Returning/Proportioning" pump head I
- 12.2 "Returning/Proportioning" pump head II
13. Check valve in the proportioning line
14. Pulsation damper
15. Standard scope of supply of **FireDos** proportioner
16. Revolution counter with flow rate display ^{x)}
17. Flow meter for return line ^{x)}
18. Pressure sustaining valve for return l^{x)}
19. 2-way ball valve in return line ^{x)}
20. Foam agent supply
21. Shut-off valve in the suction line
22. Extinguishing water supply
23. Water filter

X) Special version

7. EXAMPLE FIGURE / DIMENSIONS.



| Type | FD10000/0,5-S | FD10000/1-S | FD10000/3-S | FD10000/3/3-S |
|---|--|---|---|---|
| Proportioning rate | 0.5 % | 1 % | 3 % | 3% + 3% = 6% |
| Connection water motor A | Optionally: Flange DIN EN 1092-1, DN250 PN16 RF Flange ASME B16.5, 10" Class 150 RF | | | |
| Installation length water motor X ⁵⁾ | 825 mm | | | |
| Connection suction line B | 2" MT BSP 2" MT NPT ^{X)} | 2.1/2" FT BSP Flange ASME B16.5 2.1/2" Class 150 ^{X)} | 4" FT BSP Flange ASME B16.5 4" Class 150 ^{X)} | 2x 4" FT BSP 2x Flange ASME B16.5 4" Class 150 ^{X)} |
| Connection return line C | 1" FT BSP 1" MT NPT ^{X)} | 1.1/4" FT BSP 1.1/4" MT NPT ^{X)} | 2.1/2" FT BSP Victaulic OGS DN50 ^{X)} | 2x 2.1/2" FT BSP 2x Victaulic OGS DN50 ^{X)} |
| Length L ⁵⁾ | 1328 mm | 1475 mm | 1670 mm | 1770 mm |
| Width W ⁵⁾ | 787 mm | 1015 mm | 1225 mm | 1450 mm |
| Height H ⁵⁾ | 722 mm | 735 mm | 840 mm | 990 mm |

All figures are approximate only and depend on the particular version/equipment options.

X) Special version.

5) Further accessories to the proportioner may require more installation space.

Please allow sufficient accessibility of the proportioner for maintenance work. For assistance to ensure sufficient accessibility, please refer to our planning manual for proportioners.

8. MANUFACTURER.

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Phone +49 (0) 6036 9796-0, Email: info@firedos.de

We reserve the right to make modifications at any time.