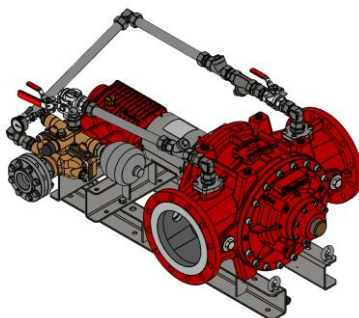


■ DATA SHEET PROPORTIONER FD10000 GEN III FOR STATIONARY EXTINGUISHING SYSTEMS.



■ 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 ²⁾	—	 FM Approval PR452158	—	—
	VdS ²⁾	—	—	 G421001	—
Flow directions of water motor		Horizontal: “left → right” or “right → left”			
		Vertical: “top → bottom” or “bottom → top”			
Min. water flow rate ¹⁾		300 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		270 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		 II 2G Ex h IIC T4 Gb  II 2D Ex h IIC T130 °C Gb			

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. For VdS Approval conditions, see VdS Certificate G420028.

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.



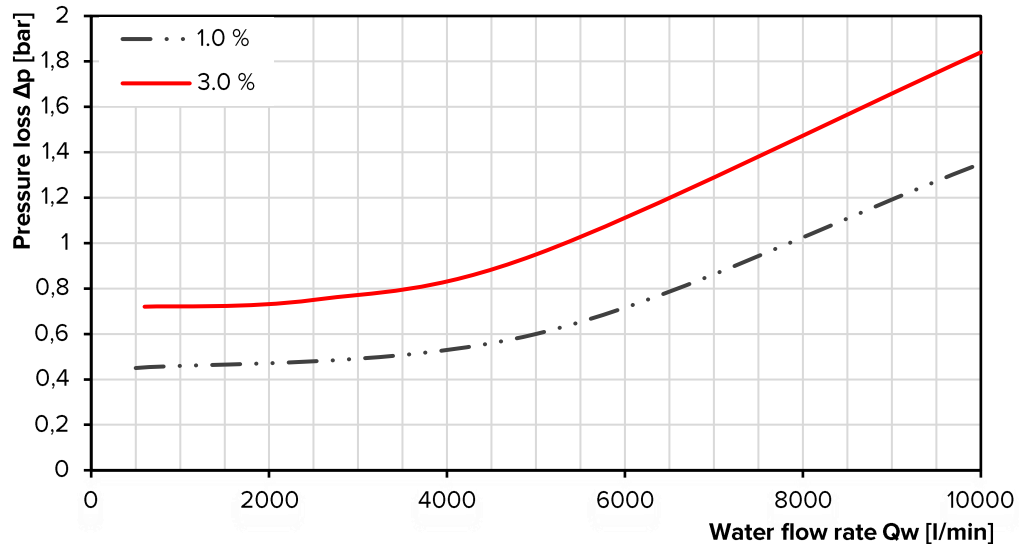
VdS Approval for FD10000/3-S



www.firedos.com

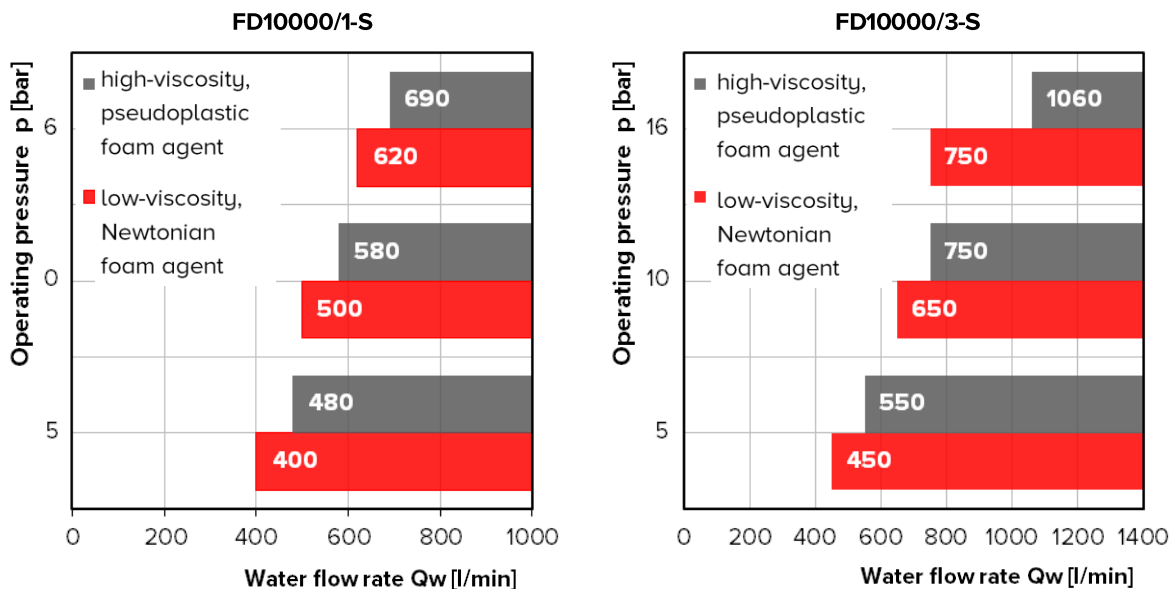
■ 2. PRESSURE LOSS.

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).

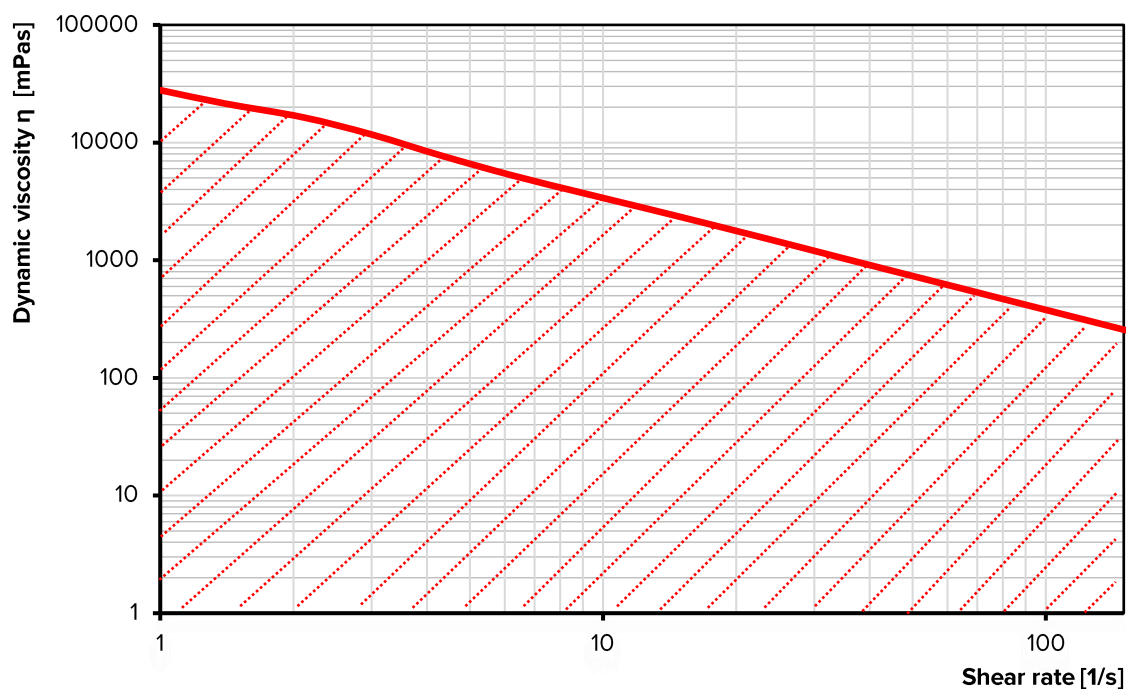


Comment:

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.**



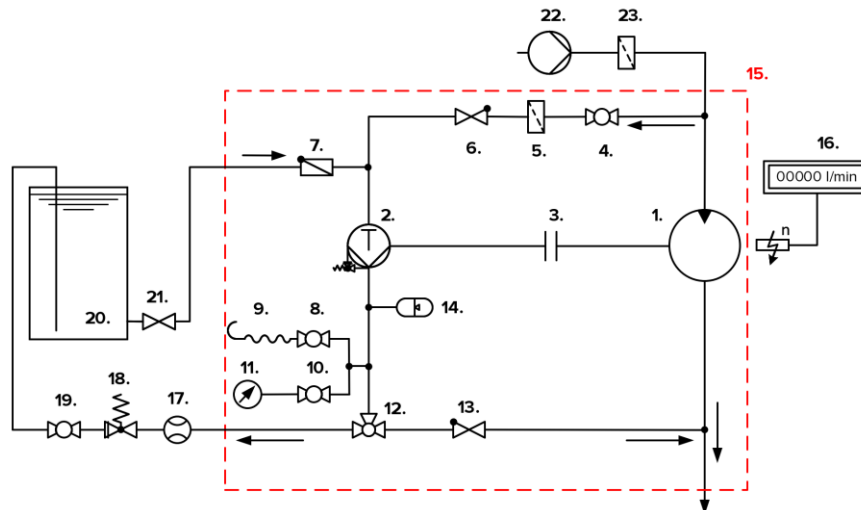
5. MATERIALS.

	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 Al ₂ O ₃ , Aluminium-Bronze CuAl10Ni5Fe5-C-GC	
Pipework ⁴⁾	Stainless steel 316 / CF8M / SS316Ti, PTFE, FKM	
Support frame	Stainless steel 304 / 316	

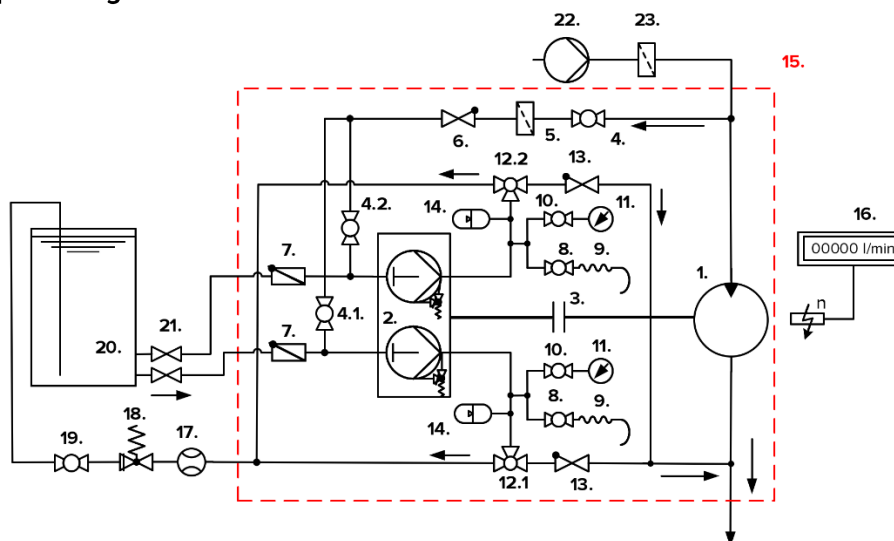
⁴⁾ media-exposed materials

6. FLOW DIAGRAM.

Proportioning rate 0.5% / 1% / 3%



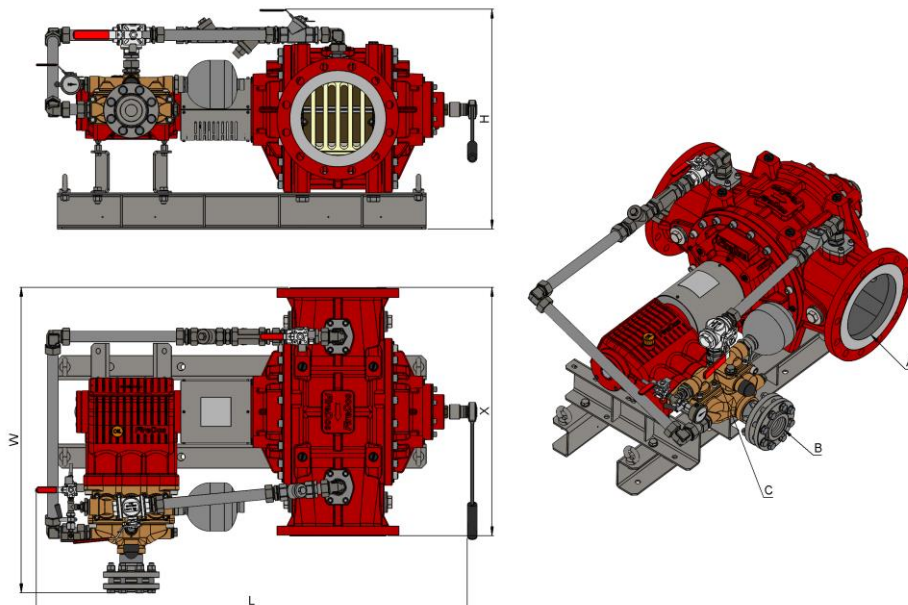
Proportioning rate 3% + 3% = 6%



- | | |
|--|---|
| 1. Water motor | 12.1 "Returning/Proportioning" pump head I |
| 2. Proportioning pump | 12.2 "Returning/Proportioning" pump head II |
| 3. Coupling | 13. Check valve in the proportioning line |
| 4. 2-way ball valve "Flushing/Priming" | 14. Pulsation damper |
| 4.1 "Flushing/Priming" pump head I | 15. Standard scope of supply of FireDos proportioner |
| 4.2 "Flushing/Priming" pump head II | 16. Revolution counter with flow rate display ^{x)} |
| 5. Filter in the flushing line | 17. Flow meter for return line ^{x)} |
| 6. Check valve in the flushing line | 18. Pressure sustaining valve for return line ^{x)} |
| 7. Non-return flap in the suction line | 19. 2-way ball valve in return line ^{x)} |
| 8. Air bleed valve | 20. Foam agent supply |
| 9. Air bleed hose | 21. Shut-off valve in the suction line |
| 10. Shut-off valve pressure gauge | 22. Extinguishing water supply |
| 11. Pressure gauge | 23. Water filter |
| 12. 3-way ball valve "Returning/Proportioning" | |

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" MT 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.