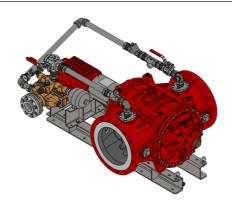


DATA SHEET PROPORTIONER FD20000 GEN III

FOR STATIONARY EXTINGUISHING SYSTEMS



1. TECHNICAL DATA

Туре	FD20000/1-S	FD20000/3-S	
Proportioning rate	1%	3 %	
Approvals	-		
Flow directions of water motor	Horizontal: "left → right" or "right → left"		
	Vertical: "top → bottom" or "bottom → top"		
Water flow rate 1)	750 l/min – 20000 l/min	850 I/min – 20000 I/min	
Operating temperature ²⁾	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 3)			
Freshwater version	540 kg	780 kg	
Seawater version x)	1105 kg	1350 kg	
ATEX classification ×)	on request		

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".



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Issued/modified: A. Hulinsky on: 28.05.2020 Version no.: 04 Approved: A. Hulinsky on: 28.05.2020

²⁾ Operating temperature is the maximum ambient and medium (foam and extinguishing water) temperature. Maximum foam agent temperature is generally limited to 50 °C.

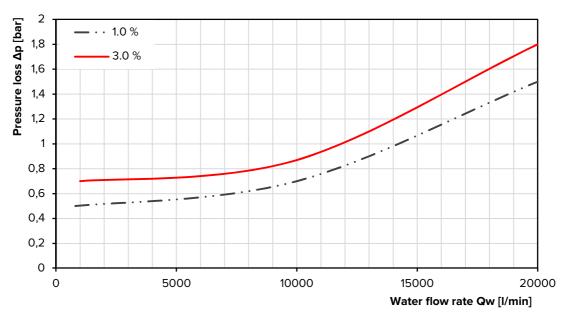
³⁾ Weight indications are based upon the standard version in dry condition. Special versions will differ.

X) Optional equipment.



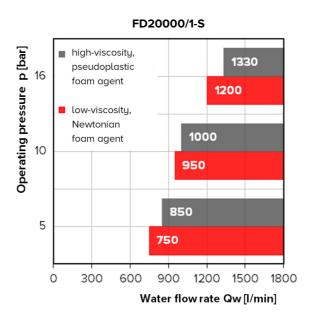
2. PRESSURE LOSS

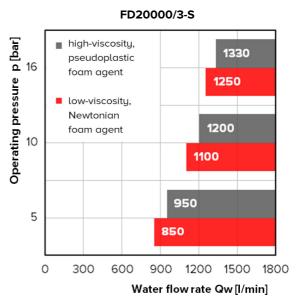
Indication valid for operating pressure of 10 bar. For more information on different system conditions, please contact us.



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.





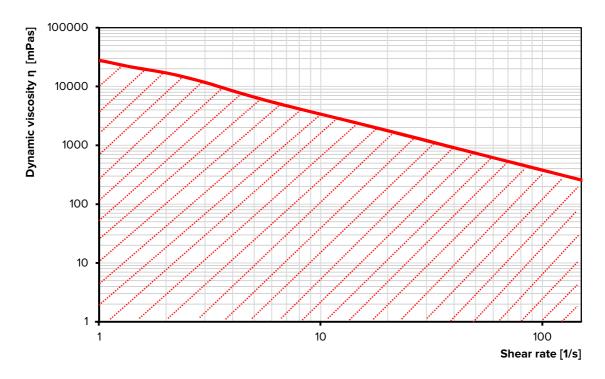
Comment: The values specified for the minimum extinguishing water flow rate increase by approx. 25% in the high-temperature version. The specified figures apply for the foam agent viscosity range stated in paragraph 4 only.

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4. FOAM AGENT VISCOSITY

FireDos proportioners are suitable for all foam agents available on the market. For your reference, please find the corresponding (associated) range of dynamic viscosity below. 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.**



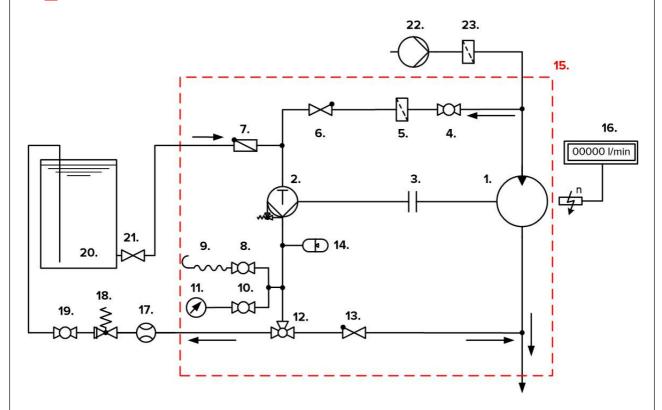
5. MATERIALS

	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, 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



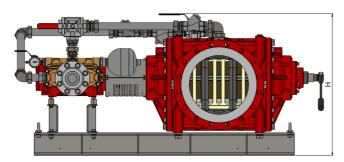
- 1. Water motor
- 2. Proportioning pump
- 3. Coupling
- 4. 2-way ball valve "Flushing/Priming"
- 5. Filter in the flushing line
- 6. Check valve in the flushing line
- 7. Non-return flap in the suction line
- 8. Air bleed valve
- 9. Air bleed hose
- 10. Shut-off valve pressure gauge
- 11. Pressure gauge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

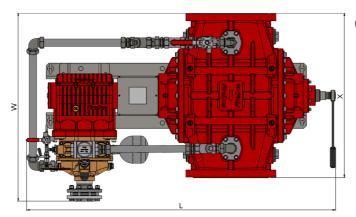
- 13. Check valve in the proportioning line
- 14. Pulsation damper
- 15. Standard scope of supply of *FireDos* proportioner
- 16. Revolution counter with flow rate display x)
- 17. Flow meter for return line x)
- 18. Pressure retention valve for return line x)
- 19. 2- way ball valve in return line x)
- 20. Foam agent supply
- 21. Shut-off valve in the suction line
- 22. Extinguishing water supply
- 23. Water filter

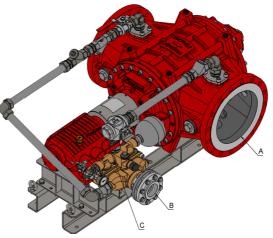
X) Optional equipment



7. EXAMPLE FIGURE / DIMENSIONS







Туре	FD20000/1-S	FD20000/3-S
Proportioning rate	1%	3 %
Connection water motor A	Optionally: flange DIN EN 1092-1, DN350 PN16 flange ASME B16.5, 14" Class 150	
Installation length water motor X ⁵⁾	950 mm	
Connection suction line B	3" FT BSP	5" FT BSP
Connection return line C	2" FT BSP	3" FT BSP
Length L ⁵⁾	1785 mm	1990 mm
Width W ⁵⁾	1090 mm	1350 mm
Height H ⁵⁾	820 mm	975 mm

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

8. MANUFACTURER

FireDos GmbH, Auf der Kaulbahn 6, 61200 Woelfersheim, Germany Phone +49 (0) 6036 9796-0, Email: info@firedos.de

We reserve the right to make modifications at any time.

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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.