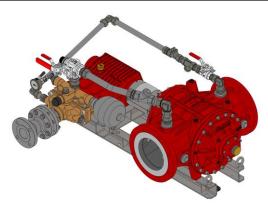
DATA SHEET PROPORTIONER FD8000 GEN III FOR STATIONARY EXTINGUISHING SYSTEMS



1. TECHNICAL DATA

Туре	FD8000/1-S	FD8000/3-S
Proportioning rate	1%	3 %
Approvals	FM Approval PR452158	
Flow directions of water motor	Horizontal: "left \rightarrow right" or "right \rightarrow left"	
Flow directions of water motor	Vertical: "top \rightarrow bottom" or "bottom \rightarrow top"	
Min. water flow rate ¹⁾	108 gpm	111 gpm
Water flow rate ²⁾	232 gpm – 2113 gpm	137 gpm – 2113 gpm
Operating temperature ³⁾	41 °F – 122 °F (standard version)	
	41 °F – 176 °F (High-Temp version) ×)	
Storage temperature	-4 °F – 176 °F	
Operating pressure	72 psi – 232 psi	
Weight ⁴⁾		
Freshwater version	527 lb.	635 lb.
Seawater version ^{x)}	935 lb.	1043 lb.
ATEX classification ^{x)}	🐼 II 2G Ex h IIC T4 Gb	
for +5 °C \leq T _a \leq +60 °C	⟨ᡚ II 2D Ex h IIIC T130 ℃ 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 72 psi. 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 122 °F. 4) Weight indications are based upon the standard version in dry condition. Special versions will differ.

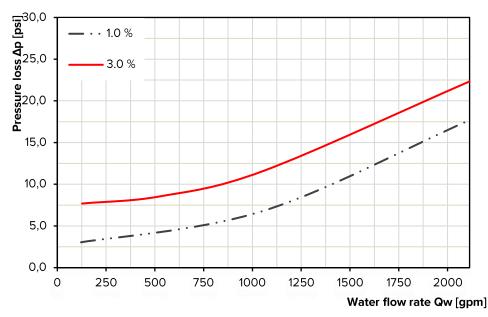




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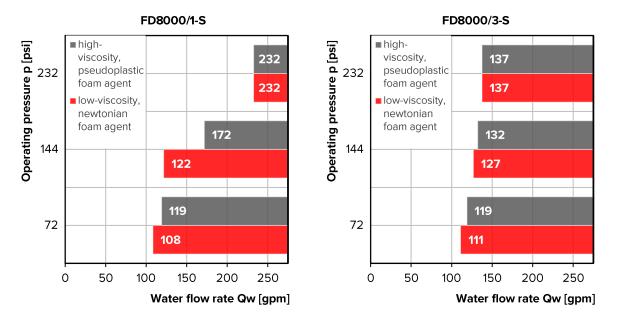
2. PRESSURE LOSS

Indication valid for operating pressure of 145 psi. 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.

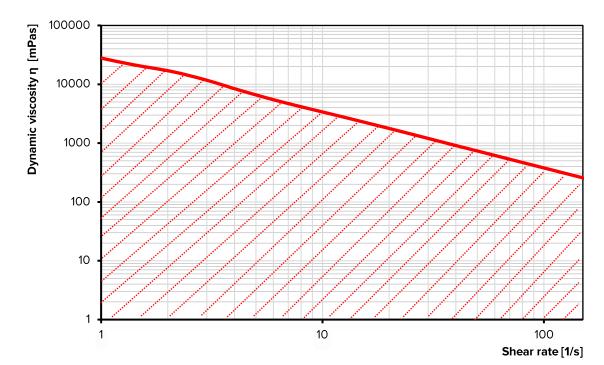


Comment: The values specified for the minimum extinguishing water flow rate increase by approx. 40% in the high-temperature version. The specified figures apply to the foam agent viscosity range stated in paragraph 4 only.

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4. FOAM AGENT VISCOSITY

FireDos proportioners are suitable for all foam agents available on the market. For 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.



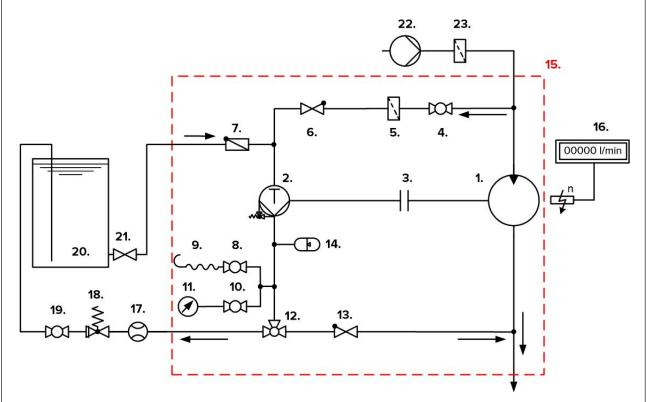
5. MATERIALS

	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, 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

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6. FLOW DIAGRAM

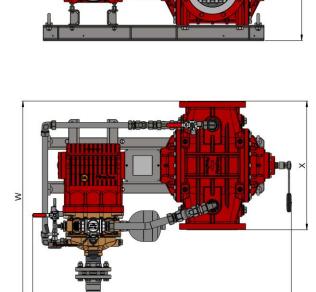


- 1. Water motor
- 2. Proportioning pump
- 3. Coupling
- 4. 2-way ball valve "Flushing/Priming"
- 5. Filter in the flushing line
- 6. Check valve in the flushing line
- 7. Non-return flap in the suction line
- 8. Air bleed valve
- 9. Air bleed hose
- 10. Shut-off valve pressure gauge
- 11. Pressure gauge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

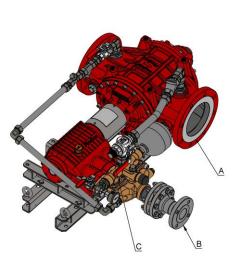
X) Optional equipment

- 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

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7. EXAMPLE FIGURE / DIMENSIONS



Туре	FD8000/1-S	FD8000/3-S
Proportioning rate	1 %	3 %
Connection water motor A	flange ASME B16.5, 8" Class 150	
Installation length water motor X ⁵⁾	26.4 in.	
Connection suction line B	ASME B16.5, 2.1/2" Class 150	ASME B16.5, 3" Class 150
Connection return line C	1.1/4" male NPT	2" male NPT
Length L ⁵⁾	53.1 in.	55.1 in.
Width W ⁵⁾	41.5 in.	41.9 in.
Height H ⁵⁾	24.6 in.	26.4 in.

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

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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We reserve the right to make modifications at any time.