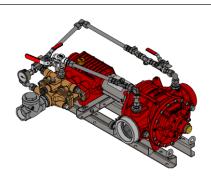


■ DATA SHEET PROPORTIONER FD2000 GEN III

FOR STATIONARY EXTINGUISHING SYSTEMS.



1. TECHNICAL DATA.

Туре		FD2000/0,5-S	FD2000/1-S	FD2000/3-S	FD2000/3/3-S	
Proportioning rate		0.5 %	1%	3 %	3% + 3% = 6%	
Approvals	FM ²⁾	_	FM Approved	_		
	VdS ²⁾	_	_	VdS G420028	_	
Flow directions of water motor		Horizontal: "left → right" or "right → left"				
		Vertical: "top → bottom" or "bottom → top"				
Min. water flow rate ¹⁾		180 l/min	180 l/min	200 l/min	250 l/min	
Min. water flow rate FM		-	270 l/min	280 l/min	_	
Max. water flow rate		2000 l/min				
Operating temperature 3)		5° C – 50° C (standard version)				
		5 °C – 80 °C (High-Temp version) ×)				
Storage temperature		-20 °C − 80 °C				
Operating pressure		5 – 16 bar				
Weight ⁴⁾						
Freshwater version		59 kg	60 kg	86 kg	115 kg	
Seawater version x)		104 kg	105 kg	131 kg	160 kg	
ATEX classification x)		🐼 II 2G Ex h IIC T4 Gb				
for +5 °C \leq T _a \leq +60 °C		ʿ 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 5 bar. For more detailed information, refer to page 2, item 3. "Minimum water flow rate".

X) Optional equipment.









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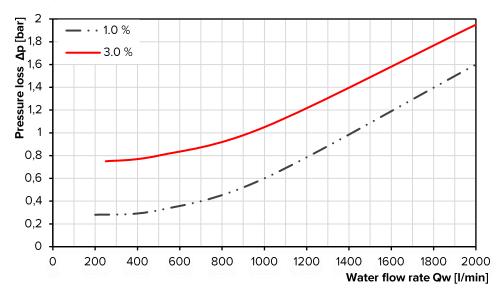
²⁾ For information regarding FM Approved data, please refer to www.approvalguide.com. For VdS Approval conditions, see VdS Certificate G420028.

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.



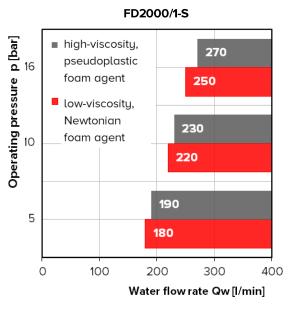
2. PRESSURE LOSS.

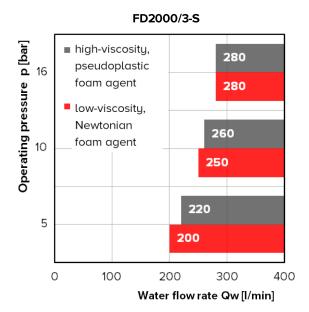
Indication valid for operating pressure of 10 bar. For more information on different system conditions or proportioning rates, please contact us.



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).





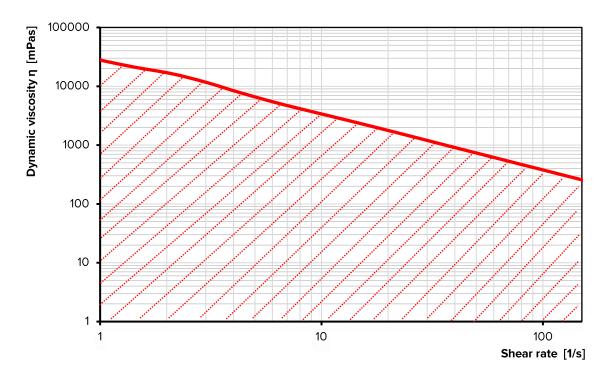
Comment:

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.

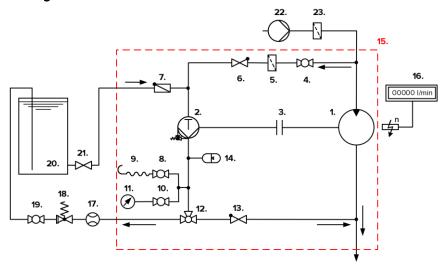
	Freshwater version	Seawater version		
Water motor 4)	Cast Aluminium G-AlSi7Mg HC-coated, AlMgSi1 HC-PTFE-coated, stainless steel 316 / 316Ti, POM, PVDF, NBR, FKM	Cast Bronze G-CuSn10, stainless steel 316 / 316Ti, Aluminium-Bronze CuAl10Fe5Ni5-C-GC, POM, PVDF, NBR, FKM		
Proportioning pump 4)	Stainless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

⁴⁾ media-exposed materials

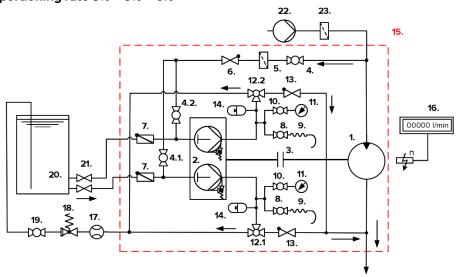


6. FLOW DIAGRAM.

Proportioning rate 0.5% / 1% / 3%



Proportioning rate 3% + 3% = 6%



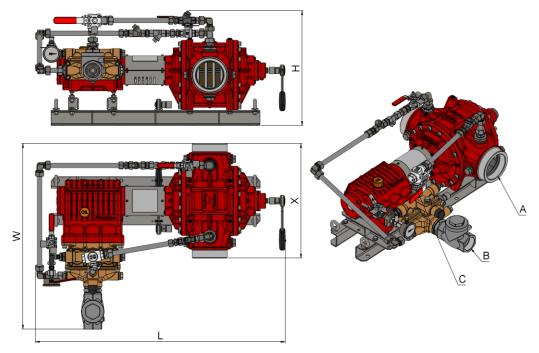
- 1. Water motor
- 2. Proportioning pump
- 3. Coupling
- 4. 2-way ball valve "Flushing/Priming"
- 4.1 "Flushing/Priming" pump head I
- 4.2 "Flushing/Priming" pump head II
- 5. Filter in the flushing line
- 6. Check valve in the flushing line
- 7. Non-return flap in the suction line
- 8. Air bleed valve
- 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 ^{y)}
- 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 $^{\times}$
- 20. Foam agent supply
- 21. Shut-off valve in the suction line
- 22. Extinguishing water supply
- 23. Water filter

X) Special version y) not applicable



7. EXAMPLE FIGURE / DIMENSIONS.



Туре	FD2000/0,5-S	FD2000/1-S	FD2000/3-S	FD2000/3/3-S	
Proportioning rate	0.5 %	1%	3 %	3% + 3% = 6%	
	Optionally: 4" MT BSP, 3" FT BSP (Standard)				
Connection water motor A	Flange DIN EN 1092-1, DN100 PN16 RF				
	Flange ASME B16.5, 4" Class 150 RF				
Installation length water motor X ⁵⁾	452 mm				
Connection suction line B	1.1/4" MT BSP	1.1/4" FT BSP	2" FT BSP	2x 2" MT BSP	
Connection suction line B	1.1/4" MT NPT ^{X)}	1.1/4" MT NPT ^{X)}	2" MT NPT X)	2x 2" MT NPT X)	
Connection return line C	1/2" FT BSP	3/4" FT BSP	1" FT BSP	2x 1" FT BSP	
Connection return line C	1/2" MT NPT ^{X)}	3/4" MT NPT ^{X)}	1" MT NPT ^{X)}	2x 1" MT NPT ^{X)}	
Length L ⁵⁾	825 mm	900 mm	985 mm	985 mm	
Width W ⁵⁾	503 mm	605 mm	740 mm	750 mm	
Height H ⁵⁾	425 mm	445 mm	480 mm	570 mm	

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.

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.

www.firedos.com

X) Special version.

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