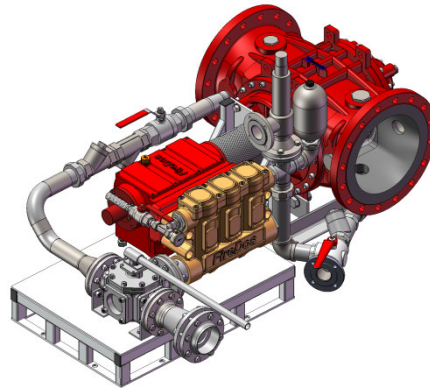


■ DATA SHEET PROPORTIONER FD20000 FOR STATIONARY EXTINGUISHING SYSTEMS.



■ 1. TECHNICAL DATA.

Proportioning rate	0.5%	1%	3%	3% + 3%
Approvals	-	FM 3039305 ¹		-
	DNV-GL TAF00000GK ¹			
Flow directions of water motor	Horizontal: "left → right" or "right → left" Vertical: "top → bottom" or "bottom → top"			
Min. water flow rate ²	800 l/min	1000 l/min	1200 l/min	1500 l/min
Min. water flow rate ² with flow reduction	270 l/min	340 l/min	400 l/min	500 l/min
Max. water flow rate	20000 l/min			
Operating temperature	5 °C – 50 °C			
Max. operating pressure	16 bar			
Weight ³				
Freshwater version	460 kg	645 kg	910 kg	1350 kg
Seawater version	1010 kg	1200 kg	1450 kg	1900 kg
ATEX classification (optional) ⁴	Ex CE II 2G IIC c T4 / II 2D IIIC c T<130°C			

1) Applies to pump generation I and II.

2) Proportioning starts even at a lower water flow rate. The nominal proportioning rate is achieved when reaching the specified figure.

3) Weight indication is based upon a proportioner with a service crank. Further accessories installed at the proportioner will increase the specified weight. Weight indications do not consider extinguishing water or foam agent.

4) The proportioner does **not** have a service crank if it is an ATEX version. Divergent materials are possible.



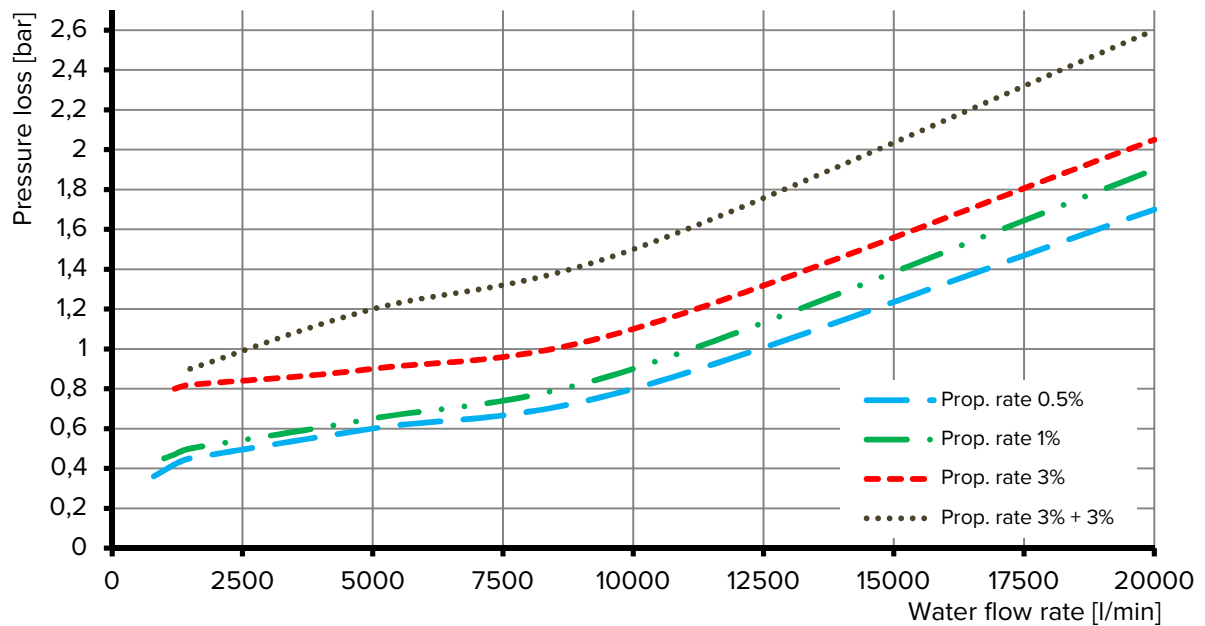
ISO 9001:2015
Certificate No.: 12 100 16020/01 TMS
ISO 14001:2015
Certificate No.: 12 104 16020/01 TMS



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■ 2. PRESSURE LOSS.

The actual pressure loss may slightly vary, depending on the operating conditions.



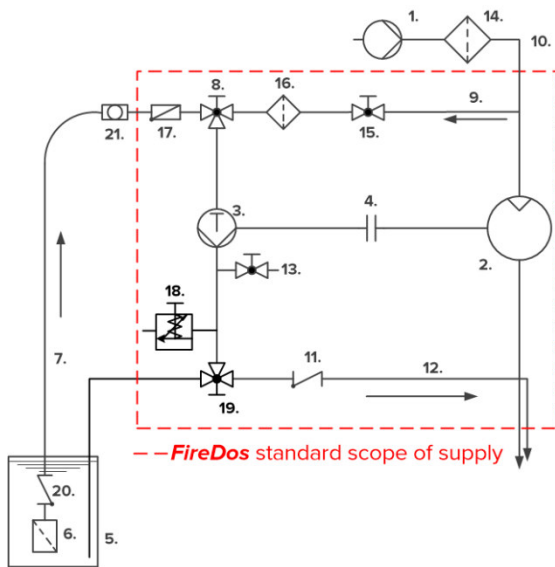
■ 3. MATERIALS.

	Freshwater version	Seawater version
Water motor	Aluminium casting G-AISi7Mg HC-coated, AlMgSi1 anodised ⁵ , stainless steel V2A, POM, PVDF, NBR, FPM	Bronze casting CuSn10, stainless steel V4A, aluminium bronze, POM, PVDF, NBR, FPM
Prop. pump	Stainless steel V4A, POM, FPM, ceramics, aluminium bronze	Stainless steel V4A, POM, FPM, ceramics, aluminium bronze
Pipework	Stainless steel V2A and V4A, PTFE, FPM, nickel-plated brass	Stainless steel V4A, PTFE, FPM

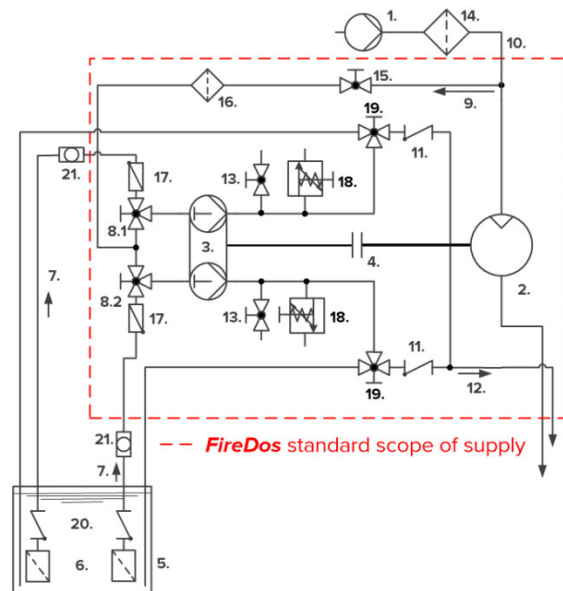
5) with the 3% + 3% variant: aluminium bronze

■ 4. FLOW DIAGRAM WITH RETURN LINE CONNECTION.

Proportioning rate 0.5% / 1% or 3%



Proportioning rate 3% + 3%

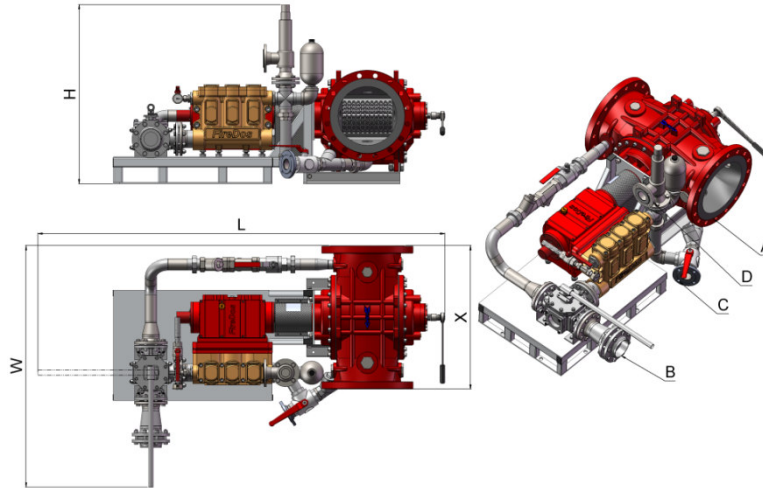


1. Extinguishing water supply
2. Water motor
3. Proportioning pump
4. Coupling
5. Foam agent supply
6. Foot filter
7. Suction line
8. 3-way ball valve "Flushing/Priming"
- 8.1 "Flushing/Priming" pump head I
- 8.2 "Flushing/Priming" pump head II
9. Flushing line
10. Extinguishing water line

11. Check valve in the proportioning line
12. Pressure/proportioning line
13. Air bleed valve
14. Filter in the extinguishing water line
15. Gate valve in the flushing line
16. Filter in the flushing line
17. Non-return flap in the suction line
18. Pressure-relief valve
19. 3-way ball valve "Admixing/Returning"
20. Foot valve*
21. Ventilation/Filling of the suction line*

*) Necessary only with a non-constant course of the suction line

5. EXAMPLE FIGURE / DIMENSIONS.



Proportioning rate	0.5%	1%	3%	3% + 3%
Connection water motor A	Optionally: Flange acc. to DIN 2633, DN400 PN16 Flange acc. to ANSI B16.5, 16"-150 lbs/in ² Flange acc. to JIS B2220 20K-400			
Connection suction line B ⁶				
Pump generation I	-	-	-	-
Pump generation II	2" FT BSP	3" FT BSP	Flange DN125	2x Flange DN125
Connection return line C	1" FT BSP	2" FT BSP	Flange DN65	2x Flange DN65
Connection pressure-relief valve D	¾" FT BSP	1" FT BSP	Flange DN65	2x Flange DN65
Length L ⁷	1900 mm	2210 mm	2800 mm	2700 mm
Height H ⁷	750 mm	810 mm	1190 mm	1280 mm
Width W ⁷	950 mm	1155 mm	1600 mm	2250 mm
Installation length in the pipework X	950 mm			

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

6) We will be pleased to advise you on which pump generation to use for your purpose.

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

Please allow sufficient accessibility of the proportioner for maintenance work.

6. MANUFACTURER.

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

We reserve the right to make modifications at any time.