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DELTAfire[®]

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www.deltafire.com.au



FIREMIKS[®]

THE SWEDISH ORIGINAL

THE USER-FRIENDLY DOSING SYSTEM

SIMPLICITY

The user-friendly dosing system for fire fighting.
Easy to install, use, maintain and test.



THE USER-FRIENDLY DOSING SYSTEM

EASY TO

...INSTALL: Compact system driven by the water flow only.

- *No additional parts or external energy needed.*

THE USER-FRIENDLY DOSING SYSTEM

EASY TO

...USE: Mechanical self-regulating and flow controlled system with a wide flow and pressure range.

- *No need of complicated pressure balances or calibration.*

THE USER-FRIENDLY DOSING SYSTEM

EASY TO

...MAINTAIN AND TEST: Economical and environmentally beneficial testing through the option of adding a Dosing return valve.

- No need of consuming the extinguishing media during testing or maintaining the unit.

THE USER-FRIENDLY DOSING SYSTEM

Fixed installations



Mobile use



THE USER-FRIENDLY DOSING SYSTEM FIRE-FIGHTING MARKETS

Industry



Fire Brigade



Offshore/Shipping



Forest Fire-fighting



Sprinkler

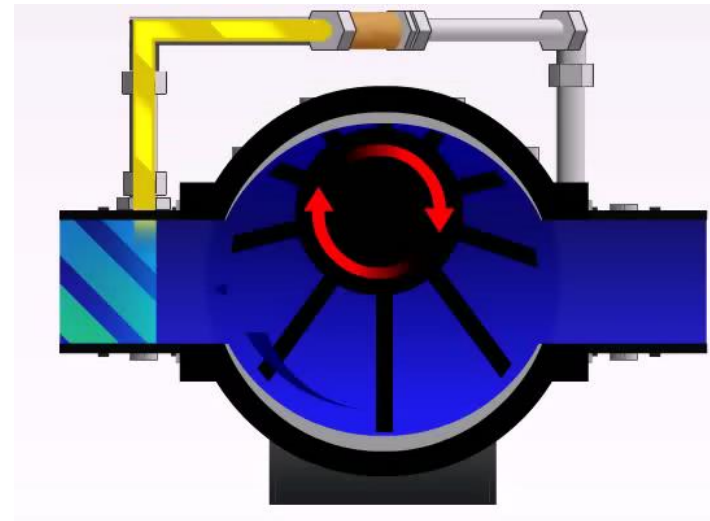
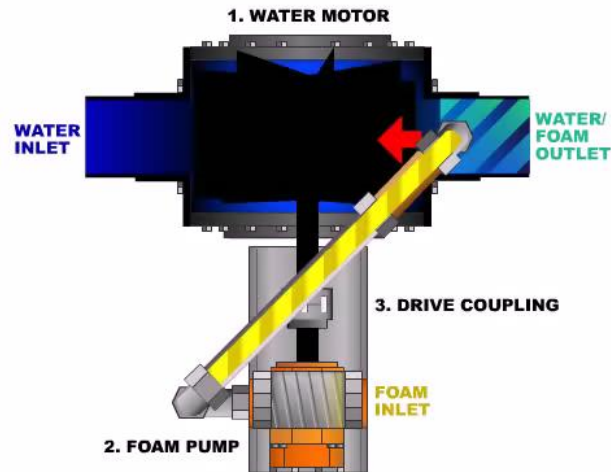


THE USER-FRIENDLY DOSING SYSTEM

MAIN ADVANTAGES WITH FIREMIKS

- Dosing is **proportional to flow rate** and independent of pressure variations. This gives a steady admixture within the min and max flow and pressure.
- FIREMIKS is available in different max flow sizes; **from 300 up to 12.000 lpm**, with fixed dosing alternatives; 0,5%, 1%, 2%, 3% or selectable. Other dosing options on request.
- Materials used are hard anodized and PTFE-coated aluminum for the water motor. All other parts are also made in **corrosion resistant material** such as AISI 316 stainless steel, brass and PET.

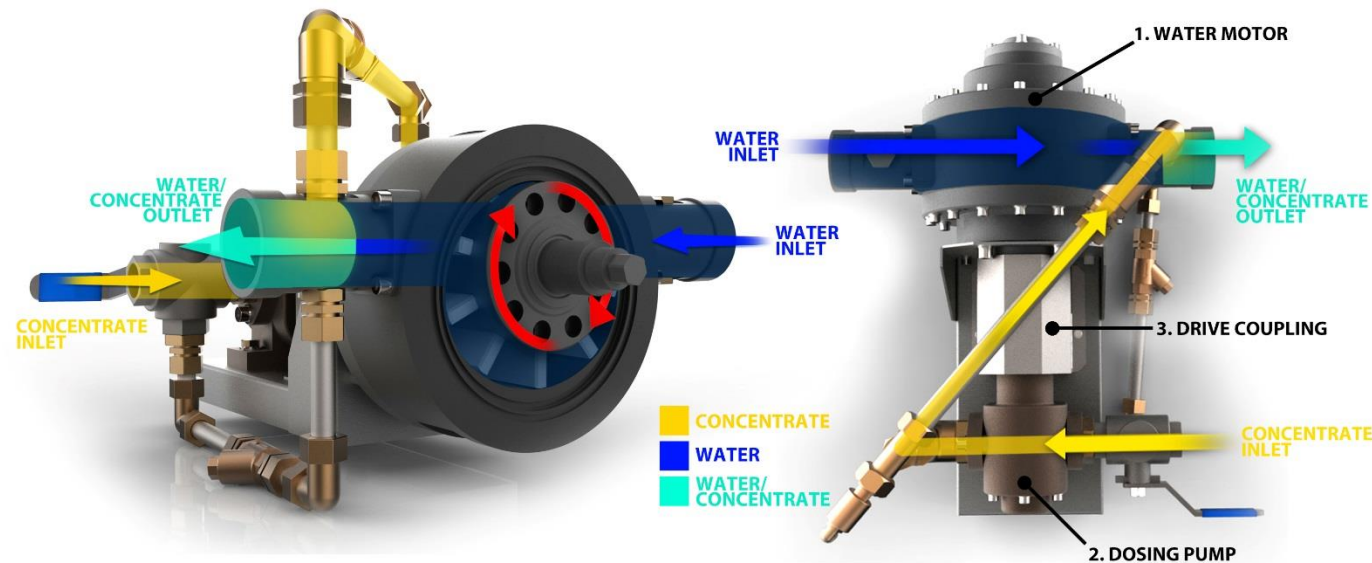
THE USER-FRIENDLY DOSING SYSTEM OPERATING PRINCIPLE



The water flow goes through the FIREMIKS water motor. This generates a circular rotor motion, transferred to the dosing pump over the direct drive coupling. The concentrate is pumped into the water motor outlet, where dosing occurs.

Since the water motor functions both as a power source to the dosing pump and as a flow meter system, the system becomes flow proportional: dosing automatically follows all the variations in the water flow.

THE USER-FRIENDLY DOSING SYSTEM OPERATING PRINCIPLE



- 8 or 10 working wings, gives an early and stable volumetric function of the water motor within a flow range up to 1:10 (for example 240-2.400 lpm).
- Narrow interior design, low friction of the vanes, reduced noise level of the unit.
- Creates a long and lasting durability.

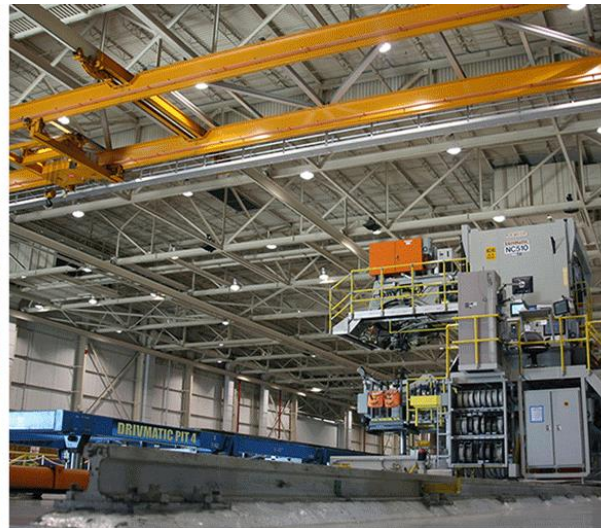
THE USER-FRIENDLY DOSING SYSTEM DIFFERENT NOZZLES

FIREMIKS works with all common types of nozzles, among others: low expansion, medium expansion and high expansion nozzles, foam sprinkler heads, spray nozzles, foam monitors and foam chambers.

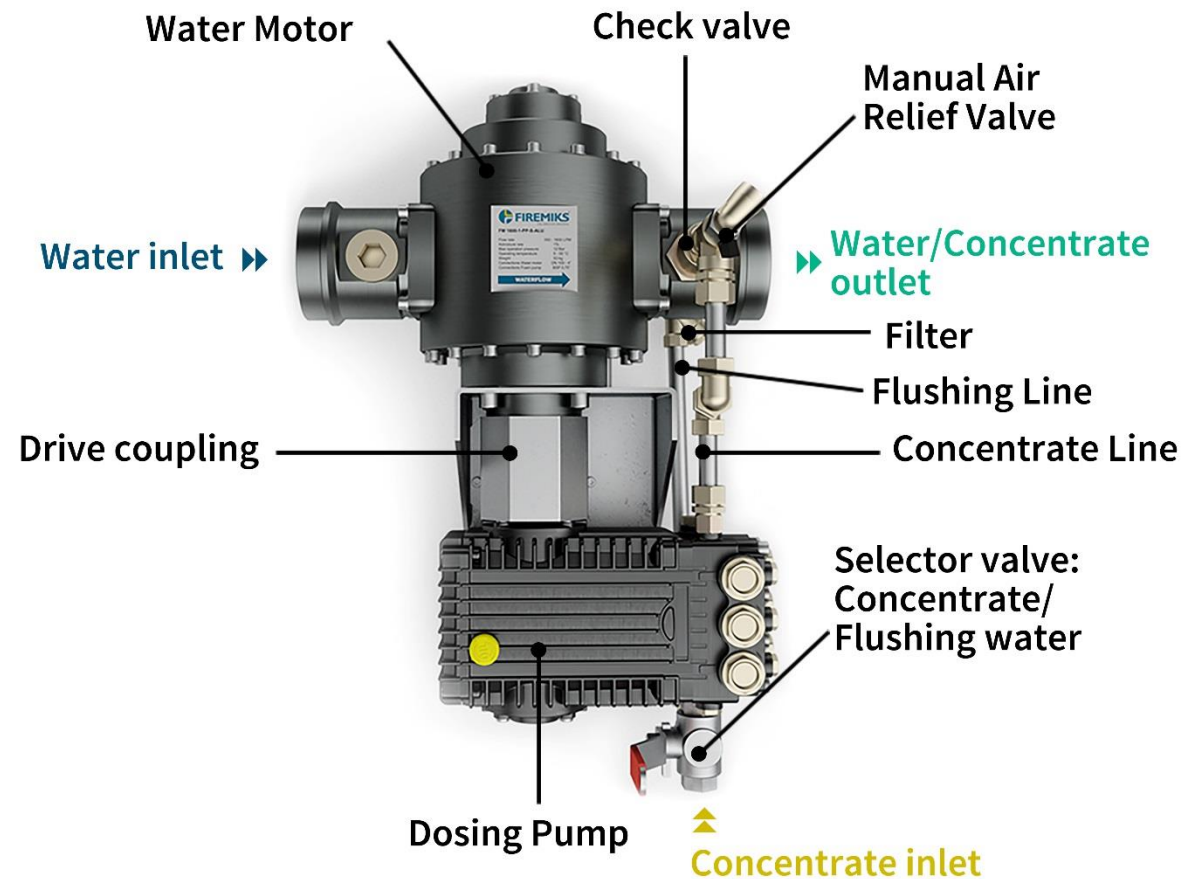


THE USER-FRIENDLY DOSING SYSTEM FIREMIKS - PP

FIREMIKS - PP is provided with a piston pump and is particularly suited for use in systems with low start flows (for example, sprinkler systems) as well as for extinguishing media concentrates with low viscosity such as wetting agents. The unit shall be placed in such a manner that the media concentrate has a free flow and flows down from the tank to the dosing pump.

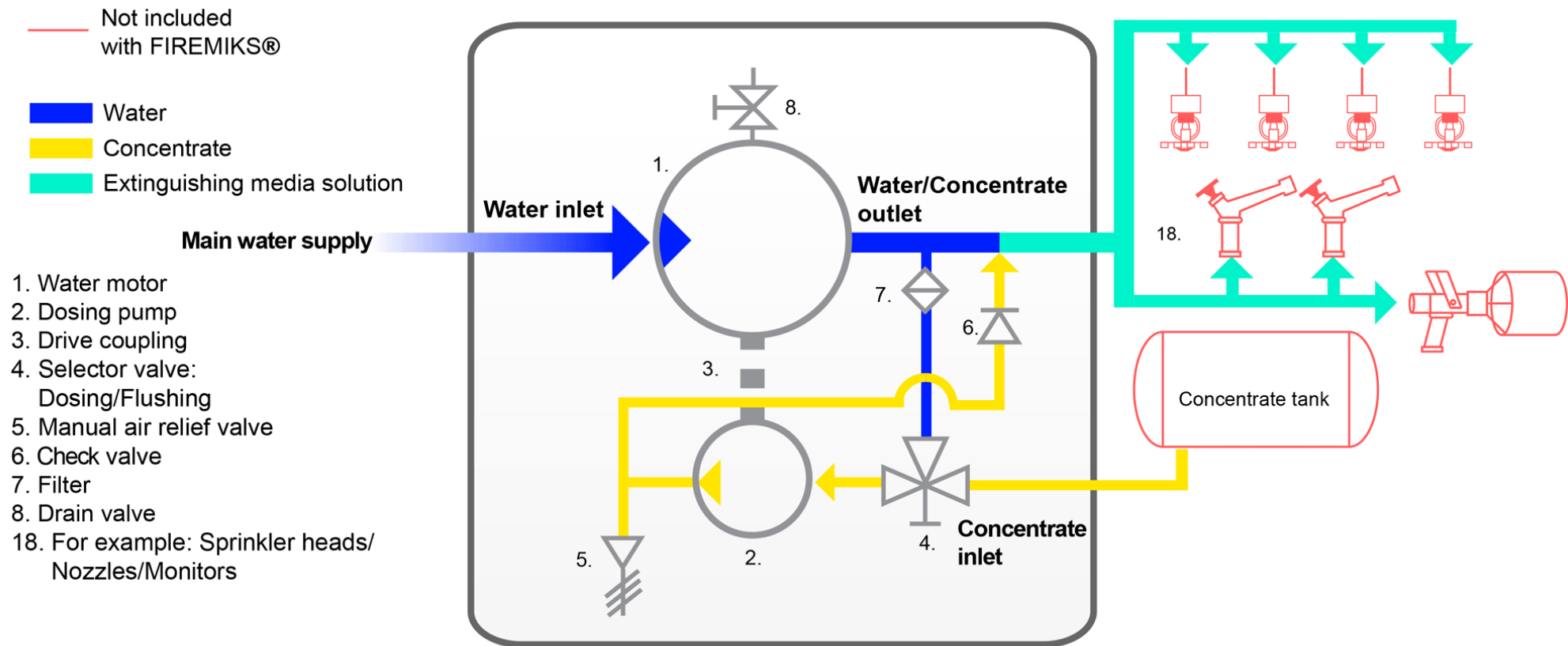


THE USER-FRIENDLY DOSING SYSTEM FIREMIKS - PP



THE USER-FRIENDLY DOSING SYSTEM

FIREMIKS – PP – FLOW CHART



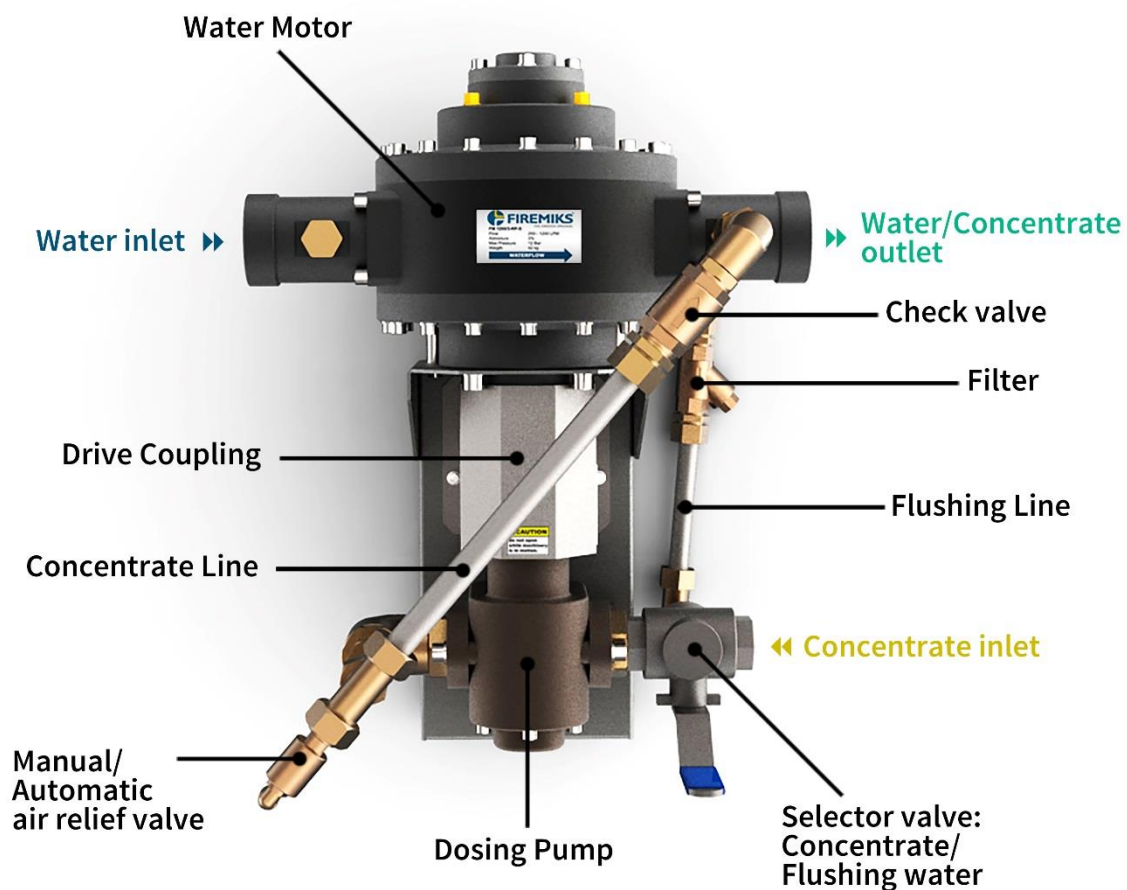
N.B. Reverse water flow direction is optional.

THE USER-FRIENDLY DOSING SYSTEM FIREMIKS - GP

FIREMIKS – GP is provided with a gear pump and is particularly suited for use in systems with higher flow rates, such as deluge systems, fire monitors and fire trucks. This type is, in addition, also very suited for high viscosity extinguishing media concentrates.

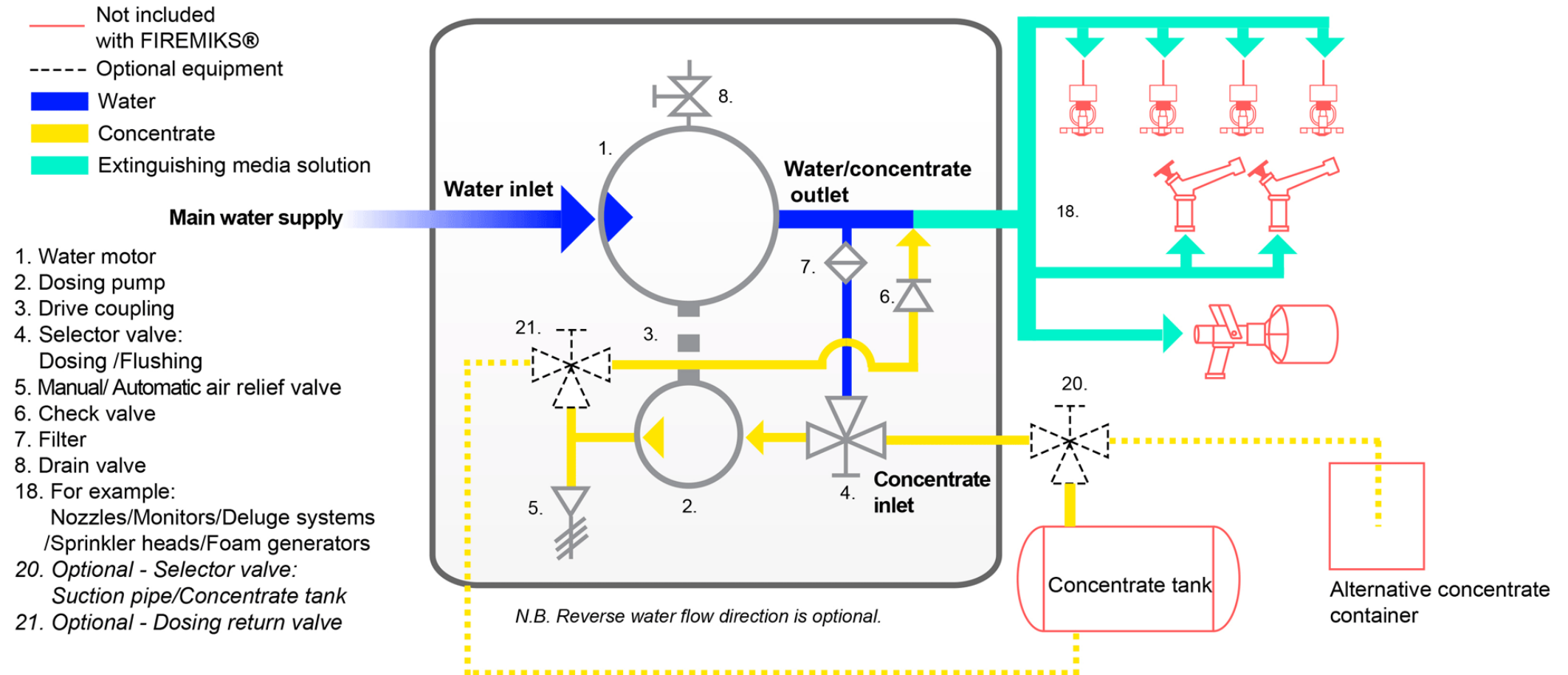


THE USER-FRIENDLY DOSING SYSTEM FIREMIKS - GP



THE USER-FRIENDLY DOSING SYSTEM

FIREMIKS – GP – FLOW CHART



RECOMMENDED PRINCIPLE SETUP - FIREMIKS® FIXED TYPE (AUTOMATIC FLUSHING)

The purpose of this recommended principle setup scheme is to inform on the general needs for making a good installation with the FIREMIKS and is not binding or contractual in any way. For information about each specific FIREMIKS model, working conditions, connection types, etc. please consult the respective data sheets. We reserve the right to make changes in this information without prior notice.

FIREMIKS

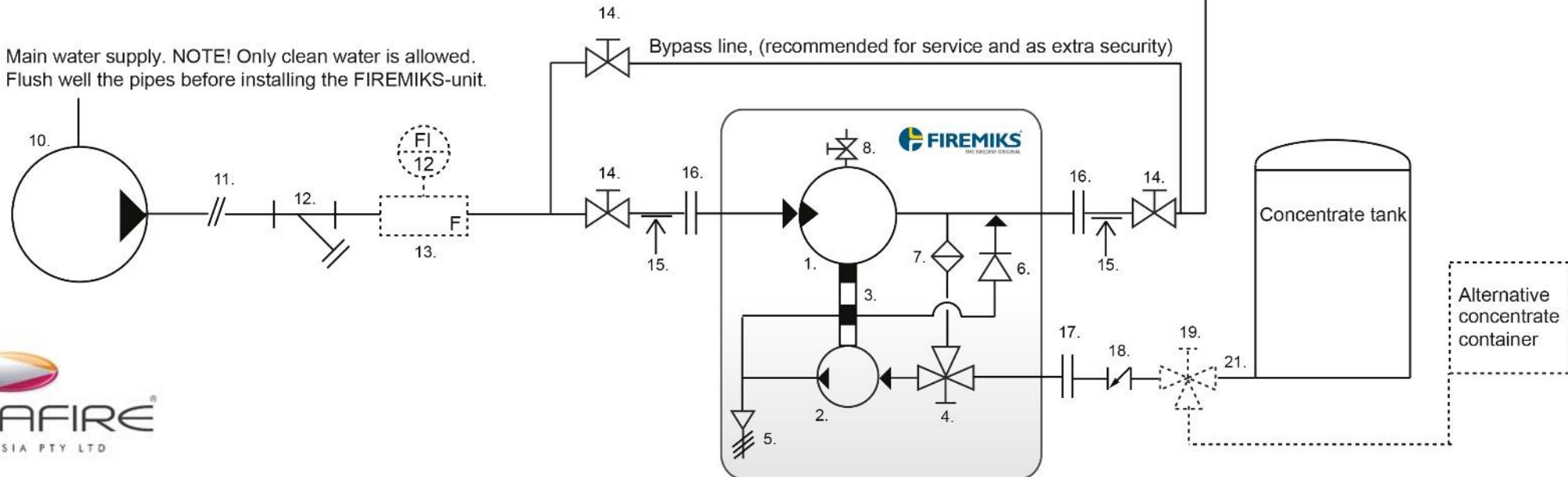
1. Water motor
2. Dosing pump
3. Drive coupling
4. Selector valve:
Dosing/Flushing
5. Manual/Automatic air relief valve
6. Check valve
7. Filter
8. Drain valve

10. Main water pump
11. (Length does not affect dosing rate of FIREMIKS)
12. Y-strainer, main water line,
13. Optional: Flow meter
14. Shut off valves
15. Pipe supports
16. Connections to Water motor
17. Connection to Concentrate inlet
18. Swing check valve, to prevent flushing water to enter the Concentrate tank, (do not use a check valve that is spring loaded, as it restricts the concentrate flow)

19. Optional; Selector valve:
Suction pipe/ Concentrate container
20. Nozzles - Monitors - Deluge system
- Sprinkler heads - Foam generators, etc.
21. Internal diameter on suction system must have equal or larger diameter as the inlet of the Selector valve Dosing/Flushing (pos no 4.)

*We recommend gravity-feed of concentrate from tank to dosing pump.
(Obligatory for piston pump -PP types).*

Main water supply. NOTE! Only clean water is allowed.
Flush well the pipes before installing the FIREMIKS-unit.



THE USER-FRIENDLY DOSING SYSTEM MOBILE UNIT

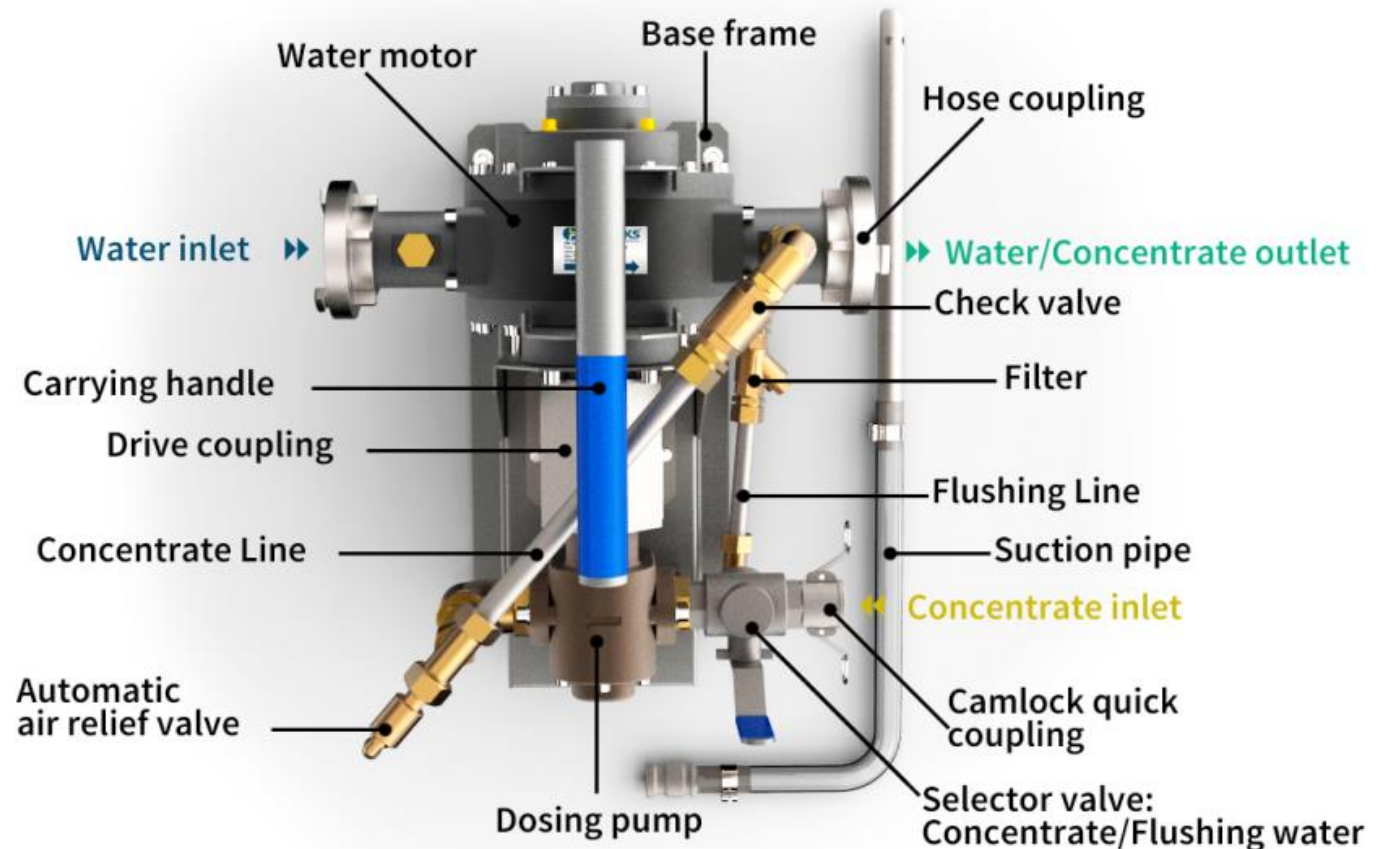
FIREMIKS Mobile type is mainly used by fire & rescue services as a handy complement to fixed concentrate proportioning systems. Just connect FIREMIKS to the fire hoses and insert the suction tube into a concentrate tank, and it is ready to be used! Equipped as standard with an Automatic air relief valve to speed up the suction from the pump.



THE USER-FRIENDLY DOSING SYSTEM MOBILE UNIT

On units provided with a gear pump (- GP) the suction from the unit is automatic. The extinguishing media concentrate needs to be in line with the dosing pump on our mobile models with a piston pump (- PP).

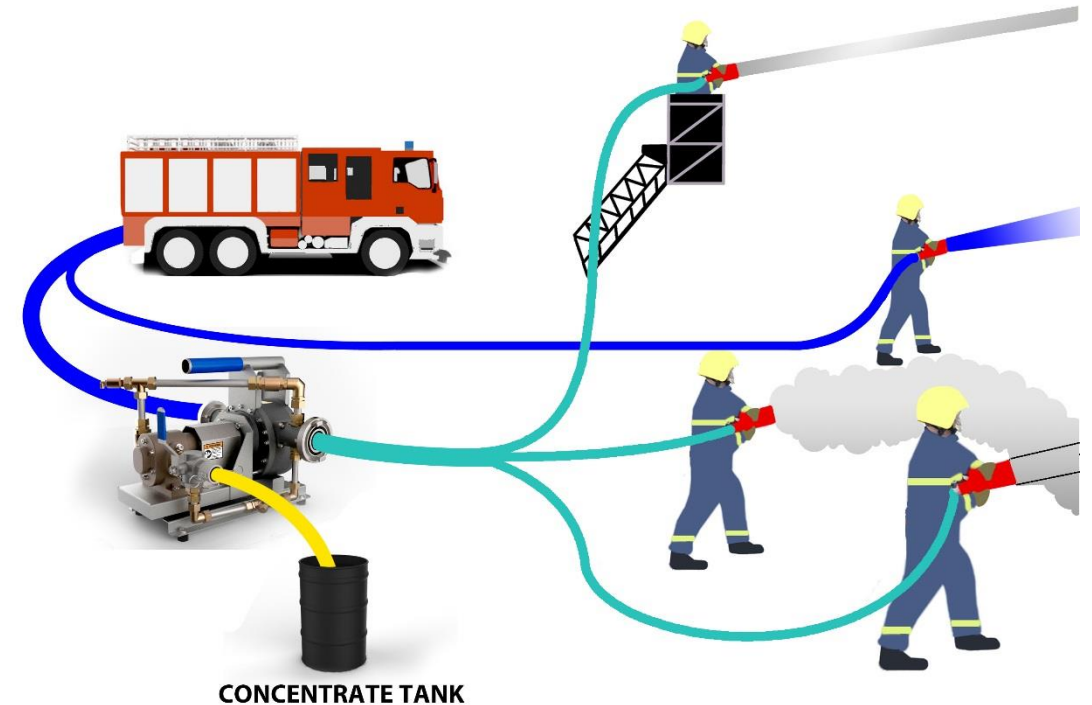
Smaller sizes are carried by using the handle, larger sizes are placed on a wheeled frame or trailer to ensure easy movement.



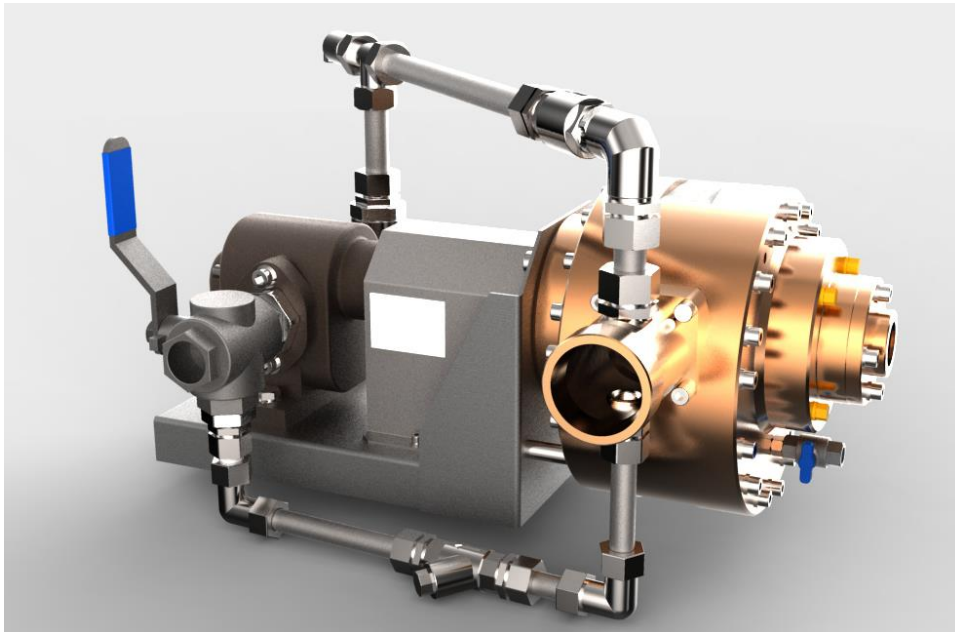
THE USER-FRIENDLY DOSING SYSTEM

ONE FIREMIKS – SEVERAL NOZZLES

- Flexible system that easily adapts to different fire-fighting situations.
- Use several different nozzles at the same time, positioned at different lengths and different heights from the FIREMIKS.
- Add or remove hoses, vary the hose diameter and open or close nozzles independently.
- Does not affect the quality of the admixture as long as the min and max flows of the FIREMIKS unit are followed.



THE USER-FRIENDLY DOSING SYSTEM SALT WATER RESISTANT



- FIREMIKS is available with the water motor entirely made from bronze.
- Suitable for offshore, shipping and other installations where seawater is used.
- Other material options are high-grade stainless steel, super-duplex, titanium, etc.

THE USER-FRIENDLY DOSING SYSTEM

NFPA CONFORMITY– CE-MARKED – ISO 9001-CERTIFIED

We certify that all our FIREMIKS[®]-units conforms with applicable parts in **NFPA 11 (2010)** and **NFPA 1901 (2009)**

FIREMIKS[®] is CE-marked. We declare that all our FIREMIKS[®]-units conforms with European Directive 2006/42/EC.

We offer the possibility to deliver any FIREMIKS[®]-unit with a third party inspection report by **DetNorske Veritas/GL** or **Bureau Veritas**, at a minor additional cost.

Firemiks AB is certified according to ISO 9001 by **Bureau Veritas**.



THE USER-FRIENDLY DOSING SYSTEM

FM APPROVED – CERTIFICATION OF COMPLIANCE.



Certificate of Compliance

This certificate is issued for the following:

FIREMIKS®

Foam Concentrate Proportioner Systems

Models: 450-3-PP-F-ALU-FM, 800-3-PP-F-ALU-FM, 1200-3-PP-F-ALU-FM,
1800-3-PP-F-ALU-FM, 2400-3-PP-F-ALU-FM, & 3200-3-PP-F-ALU-FM

Prepared for:
Firemiks AB
P.O. Box 8155
Stockholm, SE-104 20
Sweden

Manufactured at:
Firemiks AB
Bergkällavägen 35B,
Sollentuna, SE-192 79
Sweden

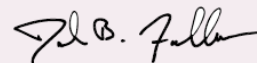
FM Approvals Class: 5130

Approval Identification: 3060416

Approval Granted: January 9, 2018

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.



David Fuller
VP - Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA

THE USER-FRIENDLY DOSING SYSTEM

A FAMILY COMPANY FOR THREE GENERATIONS

Originally founded in 1979 – as a Swedish family based business –
Firemiks AB is operated by the third generation.

Throughout the years, our main focus has been to develop, manufacture and distribute our product line of water motor driven proportioning systems worldwide.

With more than 30 years of experience in the international firefighting market
– **Firemiks AB** is a company to count on!



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