

FIRE FIGHTING PISTOL KIT HPW200

Fire fighting pistol with quick coupling exchangeable fog, piercing and foam nozzle .
All nozzles are equipped with quick coupling enable fast and easy attachment to handle.
Attach applicable nozzle rod to the handle depending on fire fighting task.



FIRE FIGHTING KIT COMPRISES FOLLOWING COMPONENTS:

1. High pressure water pump HPW200/30-45. Note external documents HPW_manual_ENG, HPW200-30-45_DATA_ENG.
2. Spray pistol handle, (pressure hose 10 m). Quick coupling tool attachable.
3. Fog nozzle. Thick high pressure fog blanket for extinguishing large areas in flames. Small droplets ensure low water usage and damage. Lowers burn temperature efficiently. Rapid efficiency temperature drop.
4. Piercing nozzles 60 and 170. Rapid piercing through wall with instant extinguishing mode. Prevents extra oxygen access to strengthen flames.
5. Foaming agent / water injector. Throughput max. 25 l/min, adjustable foam content 0 -6%. Attach to the HPW pump water inlet.
6. Agent/water mixer valve. Sucks agent from foam reservoir
7. Foam nozzle. If adjust more air > Bigger bubbles and foam is spongy.
Less air > Smaller bubbles.

WASHING PISTOLS



Washing pistol double ST15-ST53-25xx.

Pistol equipped with regulation knob enable adjusting spray form.

Spraying operation:

1. Attach water hose to handle quick coupling.
2. Start the HPW pump.
3. Point washing pistol to the target.
4. Push the handle knob to start spraying.
5. Release the handle to stop spraying.
6. Stop HPW pump if no use in next five (5) minutes.



Washing pistol



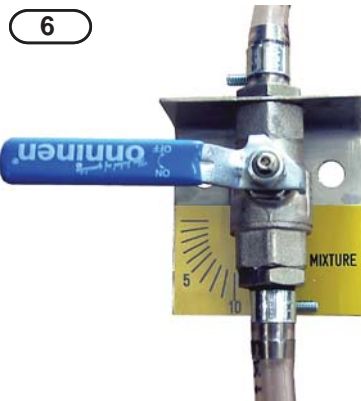
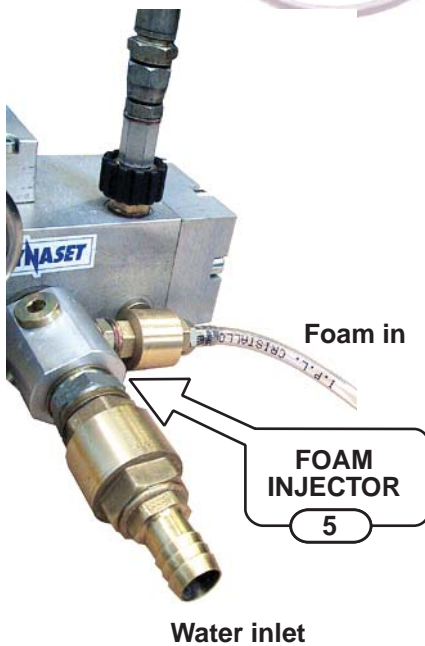
KEEP FROM FREEZING. DRAIN WATER PIPELINE AND FLUSCH IT WITH PRESSURIZED AIR.

NOTE ! SPARE PARTS ORDERING NUMBERS ARE LISTED ON DEVICE MODULE PART LIST.

FOAMING AGENT INJECTOR HPW200-FOAM



DYNASET HPW200-FOAM fire injector is designed for installation to any vehicle equipped with a hydraulic system of sufficient power. Adjust spray either point or flat forms depending the target.



Mixing ratio of injector mixture is steplessly adjustable and effected by means of manual valve.

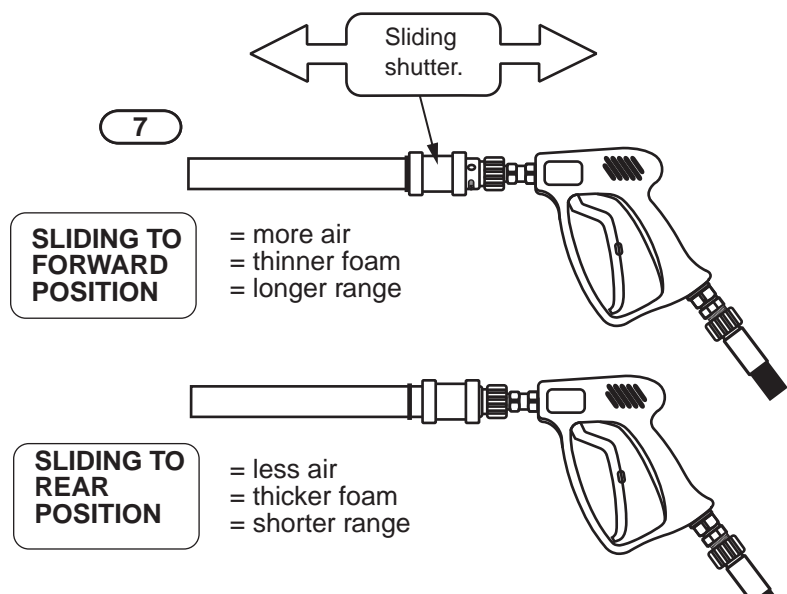
Mixing ratio is subject to foaming agent's viscosity. At viscosity value same as water's corresponding value, max. content of foaming agent in mixture reaches 18% 0-6%.

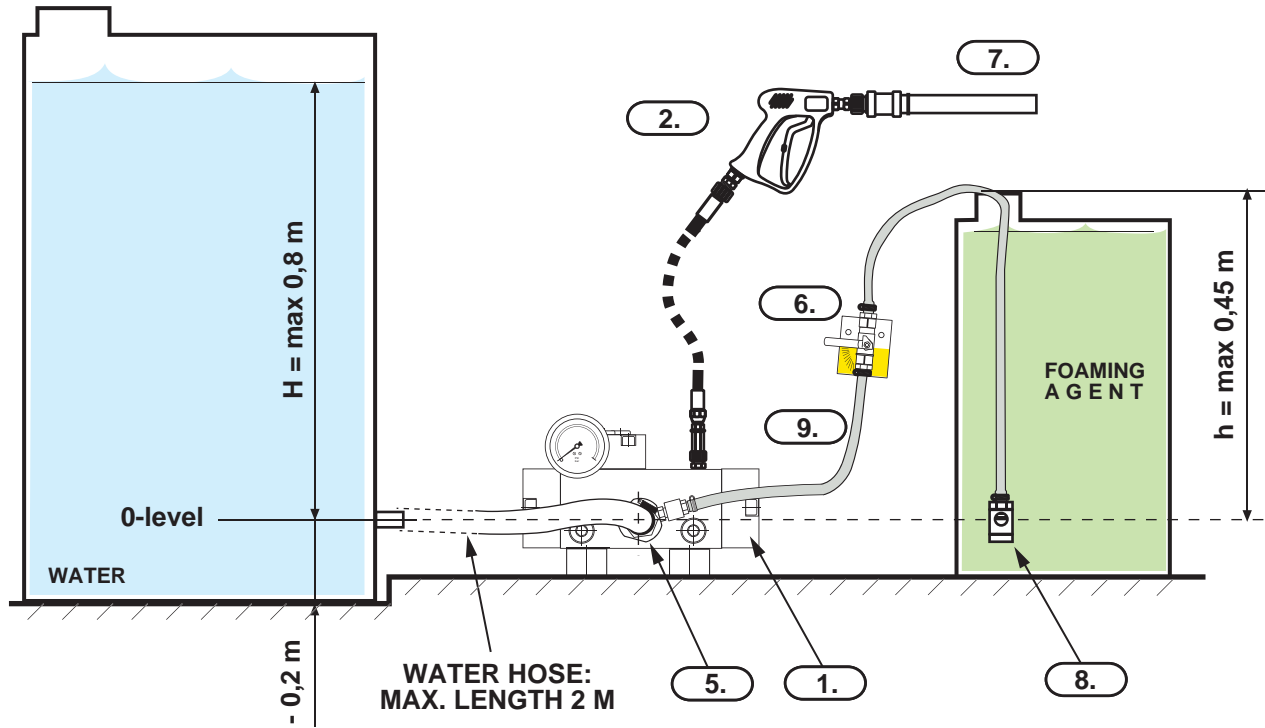


FOAM INJECTOR

The foaming is effected by feeding air into a water/foaming agent mixture which comes to spray pistol's dispensing pipe from a special nozzle.

Spray pistol is provided with a sliding shutter which allows to adjust air quantity being injected into a water/foaming agent mix.



**FOAMING AGENT INJECTOR
HPW200-FOAM****INSTALLATION / OPERATION PRE-CONDITIONS****FOAMING AGENT INJECTOR KIT COMPRISES
FOLLOWING COMPONENTS:**

1. High pressure water pump HPW200/30-45;
2. Spray pistol,
5. Foaming agent/water injector, throughput max. 25 l/min;
6. Agent/water mixer valve.
7. Foam nozzle
8. Intake piece
9. Hose (total length max. 1,6)

To achieve best results in outdoor use consider following factors when using an injector:

- wind's strength and direction
- air-to-fluid mixing ratio
- density of foaming agent
- water flow (max. 30 l/min for HPW 200/30-45)

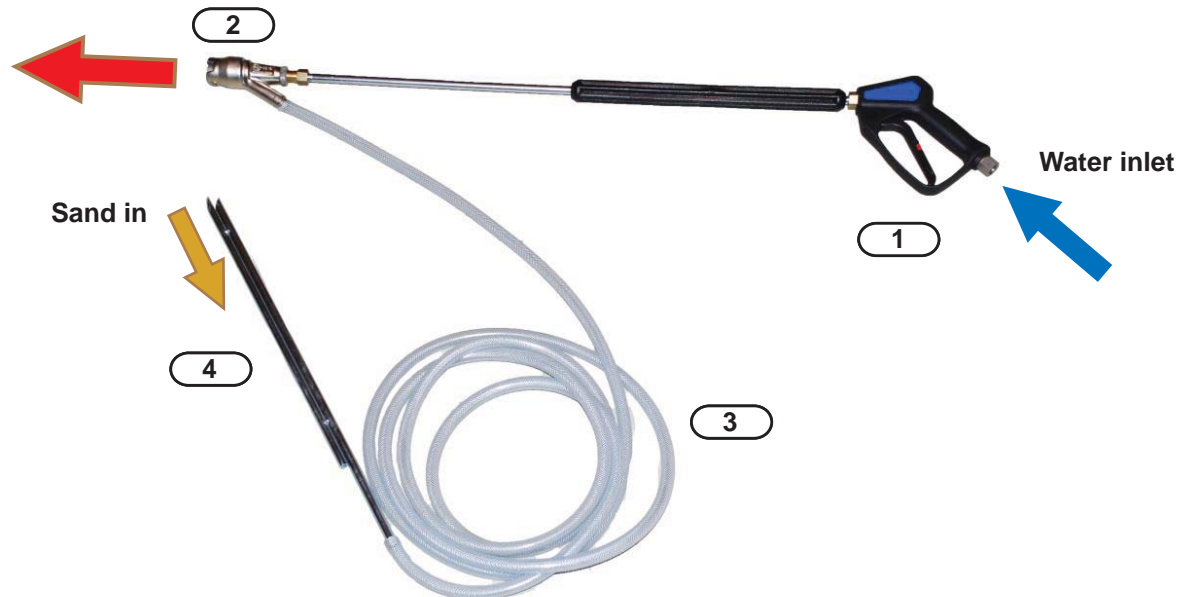


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FLUSCH IT WITH PRESSURIZED AIR.**

SANDBLASTING ATTACHMENT R1/4" 400 bar

Sandblasting head is useful to remove old paint and rust from metal surfaces before painting boats, bridges, cars, facades etc. It's also easy to clean concrete and wood before painting facades, walls etc.

The great advantage of using wet sandblasting is that there is no dust at workplace.

**SANDBLASTING ATTACHMENT COMPRISES FOLLOWING COMPONENTS:**

1. Hand spray pistol
2. Sandblasting head 400 bar, point nozzle (oc.6306676000)
3. Sand suction hose m
4. Sand suction lance

DYNASET sandblasting attachment works sucking dry sand through sand lance to the mixing head where high pressure water and sand are mixed. Water flow accelerates the sand in very high speed generating extremely high impact force. The sandblasting head is used same way as the normal water nozzle in the head of pistol or robot head.

- Attach water pressure hose to the spray pistol's water coupling.
- Put the sand suction lance into the sand tank.
- Start HPW pump.
- Point spray pistol to the target and press handle.

The amount of sand is very easy to adjust with a past by air knob in sand suction hose. Sand must be dry because wet sand may cause jam in suction hose. Sand coarseness should be 0,2 - 1,4 mm.



KEEP FROM FREEZING. DRAIN WATER PIPELINE AND FLUSCH IT WITH PRESSURIZED AIR.

EC DECLARATION OF CONFORMITY

We hereby declare that the below-reference product design and manufacturing are in conformity with the provisions in the Council Directive on mutual approximation of laws of the Member States on the safety of machines.

- Machine directive 2006/42/EC
- LVD directive 2006/95/EC
- EMC directive 2004/108/EC.
- SFS 135-1 Machines and machinery. Electrical equipment and systems.

Apply conformity standards:

- EN ISO 4413: EN ISO 4413:2010 Hydraulic fluid power - General rules and safety requirements for systems and their components.
- Safety of Machinery. Electrical equipment of machines. SFS 60204 SFS-EN-60204-1-6. Protection against electric shock. SFS-EN-60204-1-8. Equipotential bonding.
Electrical assemblies are fitted with these standards to meet the requirements.

If device has changed by someone other than at the hands of manufacturer or his permission, this declaration is not valid.

PRODUCT: FIRE FIGHTING PISTOL KIT HPW200

YLÖJÄRVI 04.09.2013

DYNASET Oy



Timo Nieminen
R&D Manager

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PRODUCT: SANDBLASTING ATTACHMENT R1/4" 400 bar

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DYNASET Oy



Timo Nieminen
R&D Manager

MANUFACTURER'S LIMITED WARRANTY**1. Warranty coverage**

All hydraulic accessories manufactured by DYNASET OY are subject to the terms and conditions of this limited warranty. Products are warranted to the original purchaser to be free from defects in materials or workmanship. Exclusions from warranty are explained in item 8.

2. Beginning of warranty period

Warranty period begins from the delivery date of the product. Delivery is considered to be done on the date when installation has been accomplished or purchaser has taken the product in use. Product is considered as taken in use at the date when DYNASET OY has delivered the product to purchaser, unless separately agreed otherwise by written agreement.

3. Warranty period

Warranty period is twelve (12) months based on maximum of 2000 hours usage during this time period. In cases where the system is provided complete with certain special components (e.g. drive unit), those components are considered as a subject to their manufacturer's warranty.

4. Warranty procedures

Immediately upon identifying a problem which purchaser believes to be a failure subject to the product's limited warranty, purchaser must contact primary to the seller of the product. Contact must be made as soon as possible, latest thirty (30) days after the problem was identified. Seller and/or manufacturer technical staff determines the nature of the problem primarily by phone or e-mail. Purchaser commits to give necessary information and to perform routine diagnostic procedures in order to determine the nature of the problem and necessary procedures.

5. Warranty repairs

If the product is found to be defective during the warranty period, DYNASET OY will, at its option, either repair the product, author it to be repaired at its authorized workshop or exchange the defective product. If the product must be repaired elsewhere than premises of DYNASET OY or authorized workshop, all costs excluded from this warranty (traveling and waiting hours, daily allowance, traveling expenses and uninstallation/reinstallation costs) will be charged from the purchaser.

If the problem is not covered by this limited warranty, DYNASET OY has the right to charge purchaser of troubleshooting and repairing.

6. Delivery terms of warranty repair

If the product is found possible to be defective under this limited warranty and it needs to be repaired, DYNASET OY gives Warranty Return Number (WRN). Items being returned must be shipped, at the purchaser's cost, adequately packed for shipment, to the DYNASET OY or to other location authored by DYNASET OY.

Shipment documents must contain:

- Purchaser's name and contact information
- Receipt of original purchase
- WRN code
- Problem description

7. Warranty of repaired product

Warranty period of the product repaired under this limited warranty continues to the end of original warranty period.

8. Exclusions from warranty

This warranty shall not apply to:

- a. Failures due to normal wear and tear, improper installation, misuse, abuse, negligence, purchaser selection of improper product to intended use, accident, improper filtration of hydraulic oil or intake water or lack of maintenance
- b. Cost of maintenance, adjustments, installation or startup
- c. Coating, hydraulic oil, quick couplings and interconnection hoses (internal or external to system assemblies)
- d. Products altered or modified in a manner not authorized by DYNASET OY in writing
- e. Products which have been repaired during warranty period by others than DYNASET OY or its authorized workshop
- f. Costs of any other damage or loss, whether direct, indirect, incidental, special or consequential, arising out of the use of, or the inability to use, the product
- g. Telephone or other communications expense
- h. Product that is used in exceptional conditions, considered to cause excessive wear and tear
- i. Faults caused by nature phenomenon's like flood, thunder, etc.

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