

Fixed firefighting systems - Hose systems -

SUPRON3

innovations & solutions for buildings and
constructions

**EKSPERTU
DIENAS#6**

**BŪVĒT UGUNSDROŠI NO
PAMATIEM LĪDZ ĒKAS
NODOŠANAI EKSPLUATĀCIJĀ
PROBLĒMAS UN RISINĀJUMI**



In 2017 we celebrate 25 years of our activity.

Since 1992 we have delivered to market products of the highest quality. We are a leading manufacturer of internal hydrants and fire fighting equipment, we have a wide range of customers in Poland and abroad.

Recent years have seen huge changes in our company. In 2016 we moved to a new building where we have a modern machine park and improved design and manufacturing capabilities. Thanks to the investments made, we are able to realize even the most unusual order.



We are owner of:

- **8 CE certificates** for hydrants
- **12 Certificates of admittance** for fire hoses and other fire-fighting equipment.

We work under quality certificate no 1144/4/2013 according to **PN-EN ISO 9001:2009**

in the field of activities: design, production and distribution of fire-fighting and industrial safety goods and services.



SERVISS

UGUNSDROŠĪBA

DARBA
AIZSARDZĪBA

VIDES
AIZSARDZĪBA

DROŠĪBAS
SISTĒMAS

APMĀCĪBA

With FN SERVISS

we have been working over 14 years

- since 2003

Fixed firefighting systems

– hose systems –

are

Construction products

with

Intended use:

Fixed installations to provide the occupants of a building the means to control and extinguish a fire nearby

ACTS & REGULATIONS

- **Regulation (EU) No 305/2011** of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products (**CPR**)
- **EN-671-1:2012** Fixed firefighting systems – Hose systems –
Part 1: Hose systems with semi-rigid hose

PN-EN 694:2014 Fire-fighting hoses – Semi-rigid hoses for fixed systems
- **EN-671-2: 2012** Fixed firefighting systems – Hose systems –
Part 2: Hose systems with lay-flat hose

PN-EN 14540:2014 Fire-fighting hoses – Non-percolating layflat hoses for fixed system

Hydrant - definition

EN 671-1:2012

Point 3.3

Manual fire hose reel; manual hose reel

firefighting appliance consisting of a **reel with water supplied through the centre**, manual inlet stop **valve** adjacent to the reel, **semi-rigid hose**, **shut-off nozzle** and, where required, a hose guide

EN 671-2: 2012

Point 3.3

Fire hose system; hose system

firefighting appliance consisting essentially of a **cabinet** or cover, **hose suport**, manual stop **valve**, **lay-flat hose** with couplings, **shut-off nozzle**

Hoses - requirement

EN 671-1:2012

The hose shall be semi-rigid
and according to EN 694

Inside diameter of the hose:

19 mm

25 mm

33 mm

The lenght of the hoses shall
be in one piece and should
not exceed 30m

EN 671-2: 2012

The hose shall be lay-flat
and according to EN 14540

The inside diameter of the hose shall be
maximum 52 mm

EN 14540:2014 allowed inside diameter:

25, 38, 40/42/45, 50/51/52

For handling reasons the lenght of the hose
should **not exceed 20m**

Maximum working pressure

EN 671- 1:2012

19 mm, 25 mm – 1,2 MPa

33 mm – 0,7 MPa

EN 671- 2: 2012

0,7 MPa

Shut-off nozzle

EN 671-1:2012

EN 671-2: 2012

Nozzle with a spray setting shall give a spray angle as follows:

sheet spray : $90^\circ \pm 5^\circ$ conical spray: not less than 45°

The hose shall terminate in a shut-off nozzle, which shall give following control settings:

SHUT- SPRAY -



- JET



Cabinet

EN 671-1:2012

EN 671-2: 2012

Cabinet for hose system shall be fitted with a door.

Cabinet doors shall open to min. 170° to allow the hose to be run out freely in any direction. Cabinet shall be free of sharp edges, which might damage the equipment or cause injury.



System of covered/unseen hinges

Protected by utility model.

This solution offer high quality aesthetic performance, smooth door on whole surface and possibilities **to open the door for 180°**. Only this solution meets the high requirements of interior design.



Cabinet

EN 671-1:2012

EN 671-2: 2012

*Lockable cabinet shall be provide with **an emergency opening device**, which may be protected only by transparent frangible material.*

Innovative solution for key fixing



This solution is registered in Patent Office of the Republic of Poland.

This allows us to use PATENT lock in non standards versions i.e. with glass or mirror. Hydrant is locked and there is no need to use additional cabinet for key.

Cabinet

EN 671-1:2012

EN 671-2: 2012

Cabinet may also be used to contain other firefighting equipment, provided that the cabinet is of sufficient size and the equipment does not interfere with the prompt use.



Cabinet

EN 671-1:2012

*The colour of the **hose reel**
shall be **RED***



EN 671-2: 2012

*The colour of the **hose suport**
shell be **RED***



Where hose systems are installed ?



According to Polish Regulation:

Hydrants with semi-rigid hose 25 have to be installed in fire zones ZL classified as risks to humans (we have 5 fire zones ZL I, II, III, IV, V):

- on each floor of high buildings and high altitude buildings
- on each floor of low and medium high buildings:
 - in fire zone of square above 200m², classified to ZL I, ZLII or ZLV
 - in fire zone classified to ZL III:
 - in medium high buildings with surface above 200m²
 - in low building with surface above 1000m²

Summary in all buildings :

- ✓ for temporary occupation: hotels, motels, hostels, sanatoriums etc.
- ✓ for constant occupation with possible presense of people with disabilities: (hospitals, prisons, children's homes, shelters, hospices etc.).
- ✓ where there may present a large number of people at once (restaurants, shopping malls, conference centres, concert and sporting halls, universities, libraries, airports etc.).
- ✓ where people present at day time, which know the layout of the building - office and administrative buildings, banks etc.



Hydrants 33 have to be installed in garages:

- with single storey/single-level with more than 10 parking place
- multi storey/multi-level garages





Hydrants 52 have to be installed in:

- storage and production zone with density of the fire load above 500MJ/m² and surface above 200m²
- storage and production zone with density of the fire load below 500MJ/m² but with room with surface above 100m² and density of the fire load above 1000 MJ/m²
- at the entrance to storage or technical room with surface above 200m² and density of the fire load above 500MJ/m², located in fire zone ZL I, ZLII, ZLIII or ZL V in low or medium high buildings

Hose systems produce by SUPRON 3



Internal hydrants $\phi 19$



Internal hydrants $\phi 25$ FIT



Internal hydrants $\phi 25$



Internal hydrants with constance flow



Internal hydrants $\phi 33$



Internal hydrants with place for
fire button



Internal hydrants $\phi 52$



Internal hydrants recess with
separate front assembly

What's new at
SUPRON3

25 years

We create for Your safety

New design of cabinets C-2 & B-2



New design of cabinets C-2 & B-2

Hydrants mounted in recess



PN-EN 671-2B-2/52-20
HW52-2B2-20-180

PN-EN 671-2B-2/52-15
HW52-2B2-15-180

Hydrant dimension: 520 x 390 x 180 mm
Recess dimension: 540 x 410 x 190 mm
(Height / Width / Depth)



Double basket

PN-EN 671-2B-2/52-20
HW52-2B2-40-240

PN-EN 671-2B-2/52-15
HW52-2B2-30-240

Hydrant dimension: 520 x 390 x 240 mm
Recess dimension: 540 x 410 x 250 mm
(Height / Width / Depth)

Hydrants mounted on the wall



PN-EN 671-2C-2/52-20
HW52-2C2-20-180

PN-EN 671-2C-2/52-15
HW52-2C2-15-180

Hydrant dimension: 520 x 390 x 180 mm
(Height / Width / Depth)



Double basket

PN-EN 671-2C-2/52-20
HW52-2C2-40-240

PN-EN 671-2C-2/52-15
HW52-2C2-30-240

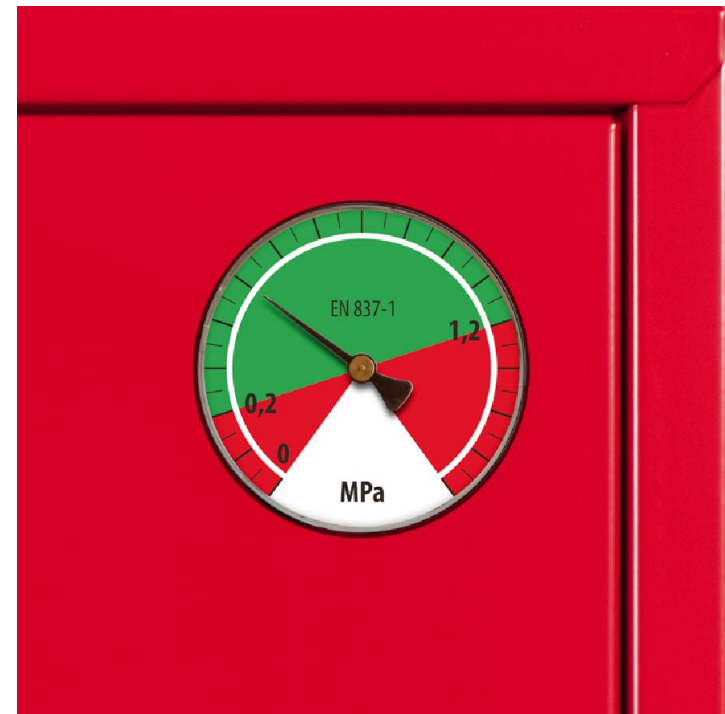
Hydrant dimension: 520 x 390 x 240 mm
(Height / Width / Depth)

Hydrant with manometer

The manometer allows to easy checking of water networks pressure and hydrant readiness at any time without opening the cabinet door.

The pressure gauge measures static and dynamic pressure when the hydrant valve is opened.

Color scale facilitates quick control: green - normal pressure and red - incorrect pressure



Hydrants with manometer



Hydrants with constant flow

Design and solution for :

- buildings where hydrants and valves are connected with other fire protection systems (sprinklers)
- buildings where hydrants are supplied with water from pump station
- in high office buildings which have their own pumping station and there is needed to install all types of internal hydrants

Thanks to the technical solutions, the compact size, ease of use and maintenance these hydrants are facilitate design, construction and supervision of installation of fire protection in the building and directly contribute to the reduction of investment costs.

Hydrants have been tested by polish notified body CNBOP-PIB. The results confirm hydrants constant flow, which is not affected by a change in the supply pressure.

Hydrants with constant flow



Hydrant valves with constant flow



Internal hydrants as part of interior design

Hydrant, more and more often in addition to the basic function of fire protection, also acts as an interior design element.

We offer hydrants with separate front assembly and with glass and any graphics, such as company logo, photo of the product or project and any laser cut pattern



Internal hydrants as part of interior design

Cabinet's front perfectly fitted to the surface of the wall

Thanks to this solution, we assemble the front of the hydrant after finishing all the works, "clean". The innovative front design makes the hydrant perfectly aligned with the wall. The frame does not protrude beyond the wall, there are no bend on the door and visible hinges.



Internal hydrants as part of interior design

Cabinet's front perfectly fitted to the surface of the wall



Internal hydrants as part of interior design

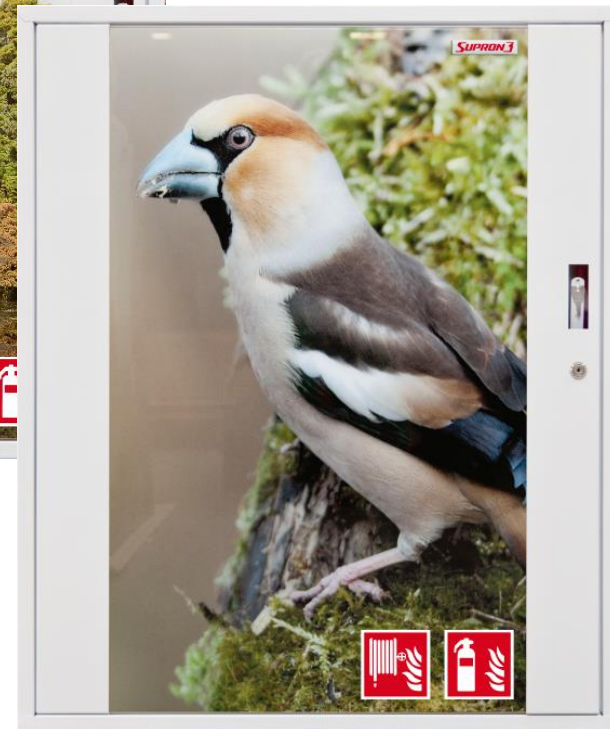
Glass with graphic

The innovative solution makes it possible to replace the glass with the graphics at a low cost and in a very simple manner, adjusting it to the current needs and requirements of the interior.



Internal hydrants as part of interior design

Glass with graphic



Internal hydrants as part of interior design

Laser cutting graphics on the fire hydrant door



Internal hydrants as part of interior design

Laser cutting graphics on the fire hydrant door



Other products

Fire extinguisher stand

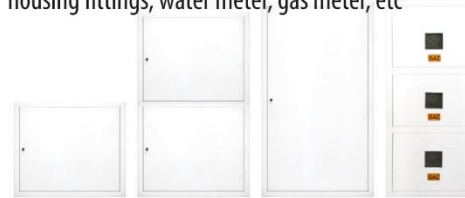


Other production

Protective cabinets



Frame with door – mounted in recess for housing fittings, water meter, gas meter, etc



First aid kit cabinets



Cabinets for keys



Firefighting hoses

Hydrants hoses

Suction hoses



Firefighting equipment

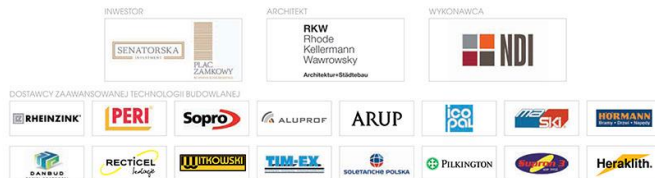


Reference objects

Builder
EXCLUSIVE



PLAC ZAMKOWY – Business with Heritage





Thank you for your attention ☺