PAVLIŠ HARTMANN

PAVLIŠ A HARTMANN

FIRE-FIGHTING EQUIPMENT PRODUCTION

CERTIFICATED 14001:2004 CERTIFICATED

CERTIFICATED 9001:2001 CERTIFICATED











PRODUCT CATALOGUE

Hydrant systems & other firefighting equipment

Mr. Zdeněk Pavliš and **Mr. Jaroslav Hartmann** started their business activities in 1990. The beginning of fire-fighting equipment manufacture followed right after that in 1991. Pavliš a Hartmann, spol. s r.o. was established in 1994.

Our program focuses on the production of high quality fire-fighting equipment such as: fire hydrant systems, fire hoses, portable floating pumps, sewage pumps, PPV fans, portable fire-fighting pumps, nozzles, valves, couplings and many other professional fire-fighting products which meet the appropriate European norms.

However there is also the production of our tool shop where we manufacture tools such as ingot moulds, dies and moulds for injection moulding of rubber, plastic and pressure moulding of aluminium. With our highly experienced team of engineers and designers we are able to offer you a complete range of high quality fire-fighting equipment.

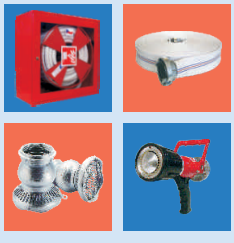
Since 1999 we have also our own production plant in Týniště nad Orlicí where, using the expertise of our team of specialists as well as state-of-the-art technologies, we manufacture fire hoses. These are currently produced mostly on the braiding machines designed and manufactured in our parent company, Pavliš a Hartmann, spol. s r.o. in Chvaletice.

Further dynamic development of the company is guaranteed by our stable team of highly qualified personnel. Our machinery and tools are constantly upgraded in order to satisfy ever growing demands of our business contacts and clients for technical excellence and high quality of our products.

This effort is well documented by the fact that our products have been able to penetrate the exacting foreign markets.



PAVLIŠ HARTMANN



HYDRANT SYSTEM WITH PH PLUS SEMI-RIGID HOSE

Pavlis a Hartmann expanded their product range by new-type hydrant systems with PH Plus semi-rigid hose.

The systems are in compliance with the CSN EN 671-1 standard. The cabinets show excellent rigidity, stability and new design. Apart from the basic colours – red, white and anthracite, we can also provide another colour designs to the customer´s requirements.

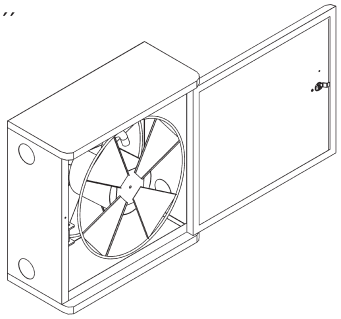
HYDRANT SYSTEMS WITH D 19 SEMI-RIGID HOSE

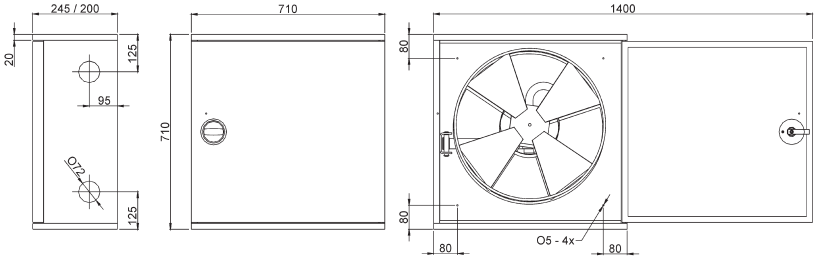
Dimensions	Door	Hose	Fire nozzle	Cat. No.
710 x 710 x 200	solid	30 m of D 19	equiv. 6	**svv 500**
710 x 710 x 200	solid	20 m of D 19	equiv. 6	**svv 501**
710 x 710 x 200	glass-panelled	20 m of D 19	equiv. 6	**svv 502**
710 x 710 x 200	glass-panelled	30 m of D 19	equiv. 6	**svv 503**

HYDRANT SYSTEMS WITH D 25 SEMI-RIGID HOSE

Dimensions	Door	Hose	Fire nozzle	Cat. No.
710 x 710 x 245	solid	30 m of D 25	equiv. 10	**svv 504**
710 x 710 x 245	solid	20 m of D 25	equiv. 10	**svv 505**
710 x 710 x 245	glass-panelled	30 m of D 25	equiv. 10	**svv 506**
710 x 710 x 245	glass-panelled	20 m of D 25	equiv. 10	**svv 507**
710 x 710 x 245	solid	30 m of D 25	equiv. 6	**svv 508**
710 x 710 x 245	solid	20 m of D 25	equiv. 6	**svv 509**
710 x 710 x 245	glass-panelled	30 m of D 25	equiv. 6	**svv 510**
710 x 710 x 245	glass-panelled	20 m of D 25	equiv. 6	**svv 511**

The system includes:
- *D 25 fire nozzle (with equivalent 6 or 10 millimetres) - equiv. 6mm - flow rate Q < 1.1 L/sec; equiv. 10mm - flow rate Q > 1.1 L/sec*
- *D 19 or D 25 hose (20/30 m)*
- *Connection hose D 19/25, length 1.4 m, with ball valve 3/4´´ or 1´´*
- *Steel cabinet with hose reel*





HYDRANT SYSTEM WITH PH PLUS SEMI-RIGID HOSE



- *Attractive design*
- *Suitable for modern interiors*
- *Tradition-based quality workmanship*

HYDRANT SYSTEMS WITH SEMI-RIGID HOSE

APPROVED TO CSN 73 0873 AND CSN EN 671-1
UNIVERSAL DESIGN – CAN BE SURFACE-MOUNTED OR RECESS-MOUNTED

Fire hydrant system with semi-rigid hose is a very effective fire-fighting facility with an uninterrupted supply of water which is available immediately. The design of the system allows quick operation by a single person.

The system includes:

1. *Hydrant cabinet – made of steel sheet.*
   Pressurized water supply brought through the centre of the reel, enabling immediate use of the system.
   Surface treatment – textured powder coating designed for indoor environment (outdoor design possible by agreement with the manufacturer).
   Solid or glass-panelled door.
2. *PH – stabil D semi-rigid hose of 19 or 25 mm inner diameter.*
3. *Nickel-plated brass ball valve*
4. *D 25 spray fire nozzle consisting of a polypropylene body and revolving head.*
   The revolving head enables the user to set a full or spray stream with an adjustable spraying angle within the range 0 – 110° and to shut off the nozzle.
5. *Connection hose used to connect the system to water main.*

Dimensions:

Hydrant system with D 25 mm semi-rigid hose

650 x 650 x 285 mm – 20 or 30-m hose can be used
650 x 650 x 210 mm – only 20-m hose can be used
710 x 710 x 245 mm – 20 or 30-m hose can be used

Nozzle options: equiv. 6 mm diam. – flow rate Q < 1.1 L/sec
equiv. 10 mm diam. – flow rate Q > 1.1 L/sec

Hydrant system with D 25 mm - KOMBI semi-rigid hose

Hydrant system with a cabinet for fire extinguisher.
950 x 650 x 285 mm – 20 or 30-m hose can be used

Nozzle options: equiv. 6 mm diam. – flow rate Q < 1.1 L/sec
equiv. 10 mm diam. – flow rate Q > 1.1 L/sec

Hydrant system with D 19 mm semi-rigid hose

650 x 650 x 175 mm – 20 or 30-m hose can be used
710 x 710 x 135 mm – only 20-m hose can be used

Only fire nozzle with 6 mm equiv. diam. is used – flow rate Q < 1.1 L/sec

System installation:

When selecting a specific type of equipment, systems with at least 25 mm hose (internal diameter) are to be installed especially in the following areas:
a) Fire sections in production facilities (according to CSN 73 0804) and warehouses (according to CSN 73 0845)
b) Fire sections (buildings) where the linear speed of fire propagation is v_1 > 1.2 m/min; values of v1 can be used without additional certificates (according to CSN 73 0873)
c) In buildings or their parts designed as:

1. Indoor meeting areas according to CSN 73 0831, Annex B, Table B.1
2. Accommodation buildings of OB 4 group (according to CSN 73 0833)
3. Retail outlets and distribution depots
4. Multiple garages
5. Exhibition grounds
6. Film, TV and radio studios
7. Stages, backstage areas, scene-docks
8. Fire sections on underground floors with more than 10 persons present according to CSN 73 0818
9. Fire sections with high fire load (p > 120 kg/m²)

In other relevant cases, it is sufficient to install hose systems using 19 mm (nominal internal diameter) hose at least.

The hose reel systems are to be installed at a height betw. 1.1 m and 1.3 m above the floor (measured to the centre of equipment). Their position should allow easy reach and it should be possible to open the door up to 180°. For the installation it is necessary to provide sufficient water supply so that a minimum overpressure of 0.2 MPa is guaranteed in the least favourable place.

Application:
After opening the cabinet and checking that the nozzle is shut off, open the ball valve on the inlet (the system fills with water).
Unwind the required length of hose from the reel up to the place of fire and turn the head of the nozzle to adjust the required shape of water stream.

Inspection of hydrant system is to be undertaken by a trained person in accordance with applicable standards and regulations.

HYDRANT SYSTEMS WITH SEMI-RIGID HOSE





HYDRANT SYSTEMS WITH D 19 SEMI-RIGID HOSE

Dimensions	*Door*	*Hose*	*Fire nozzle*	*Cat. No.*
650 x 650 x 175	solid	20 m of D 19	equiv. 6	**svv 101 /**
650 x 650 x 175	solid	30 m of D 19	equiv. 6	**svv 102 /**
710 x 710 x 135	solid	20 m of D 19	equiv. 6	**svv 110 /**
650 x 650 x 175	glass panelled	20 m of D 19	equiv. 6	**svv 103 /**
650 x 650 x 175	glass panelled	30 m of D 19	equiv. 6	**svv 104 /**
710 x 710 x 135	glass panelled	20 m of D 19	equiv. 6	**svv 111 /**

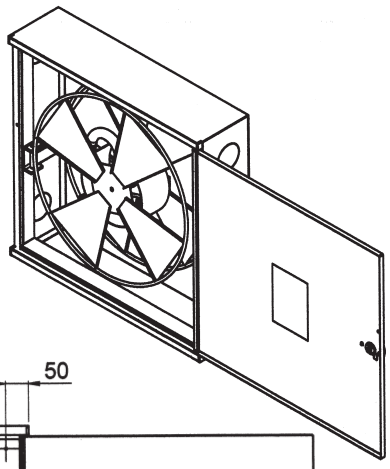
HYDRANT SYSTEMS WITH D 25 SEMI-RIGID HOSE

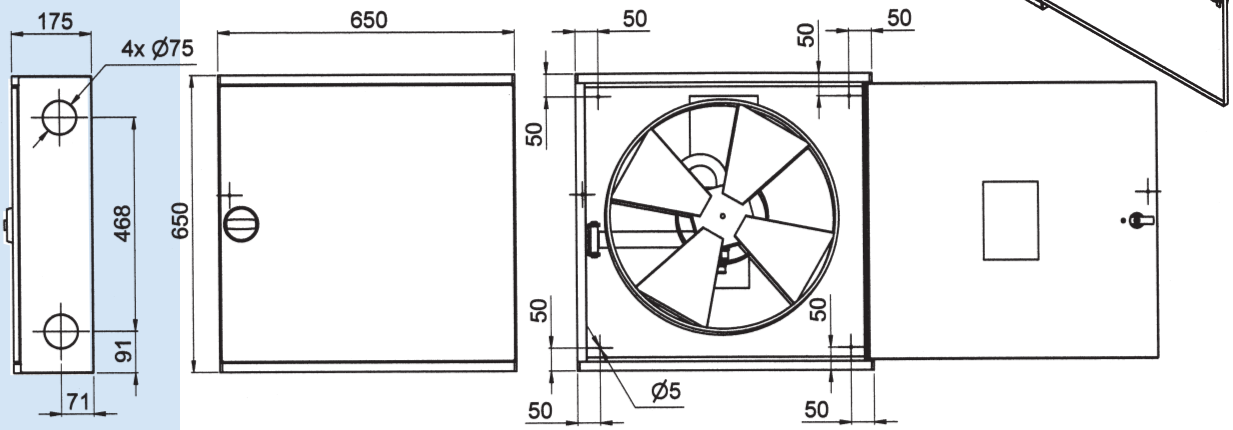
Dimensions	*Door*	*Hose*	*Fire nozzle*	*Cat. No.*
650 x 650 x 285	solid	20 m of D 25	equiv. 10	***svv 002 /***
650 x 650 x 285	solid	30 m of D 25	equiv. 10	***svv 004 /***
650 x 650 x 285	solid	20 m of D 25	equiv. 6	***svv 001 /***
650 x 650 x 285	solid	30 m of D 25	equiv. 6	***svv 003 /***
650 x 650 x 210	solid	20 m of D 25	equiv. 6	***svv 005 /***
650 x 650 x 210	solid	20 m of D 25	equiv. 10	***svv 006 /***
710 x 710 x 245	solid	30 m of D 25	equiv. 6	***svv 016 /***
710 x 710 x 245	solid	30 m of D 25	equiv. 10	***svv 010 /***
650 x 650 x 285	glass panelled	20 m of D 25	equiv. 10	***svv 011 /***
650 x 650 x 285	galss panelled	30 m of D 25	equiv. 10	***svv 012 /***
650 x 650 x 285	glass panelled	20 m of D 25	equiv. 6	***svv 027 /***
650 x 650 x 285	glass panelled	30 m of D 25	equiv. 6	***svv 029 /***
650 x 650 x 210	glass panelled	20 m of D 25	equiv. 6	***svv 051 /***
650 x 650 x 210	glass panelled	20 m of D 25	equiv. 10	***svv 007 /***
710 x 710 x 245	glass panelled	30 m of D 25	equiv. 6	***svv 052 /***
710 x 710 x 245	glass panelled	30 m of D 25	equiv. 10	***svv 008 /***

HYDRANT SYSTEM WITH D 19 SEMI-RIGID HOSE (W 650 x H 650 x D 175 mm)
Approved to CSN EN 671-1

The system includes:

- *D 25 fire nozzle, equiv. 6 mm – flow rate Q < 1.1 L/sec*
- *20 or 30 m of D 19 hose*
- *Connection hose D 19, length 1.4 m, with ball valve 3/4´´*
- *Steel cabinet with hose reel*

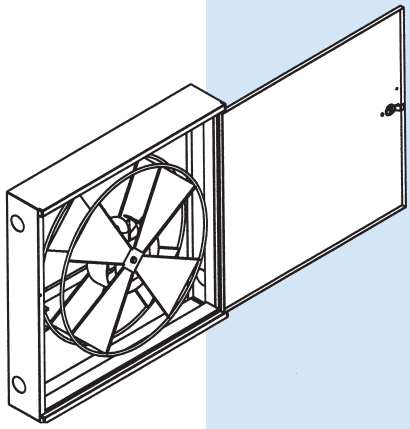


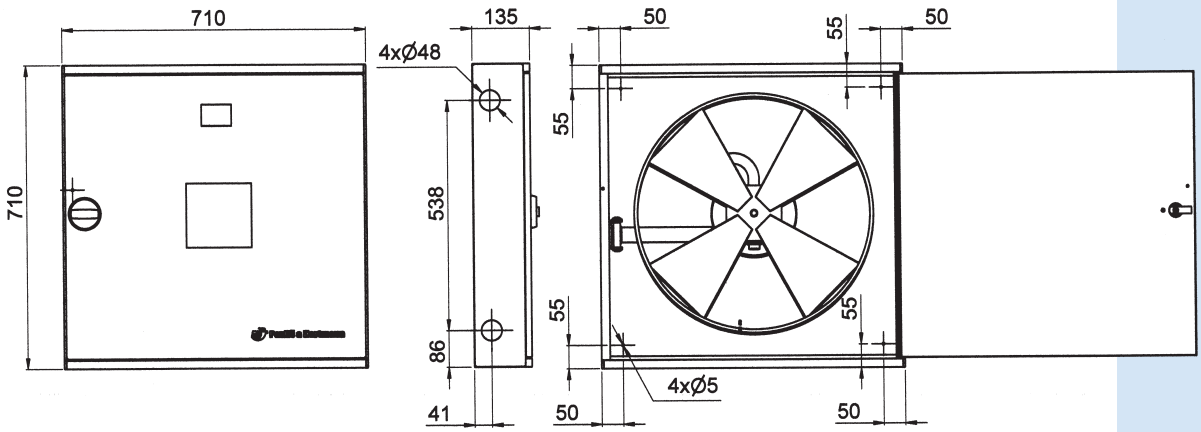


HYDRANT SYSTEM WITH D 19 SEMI-RIGID HOSE (W 710 x H 710 x D 135 mm)
Approved to CSN EN 671-1

The system includes:

- *D 25 fire nozzle, equiv. 6 mm – flow rate Q < 1.1 L/sec*
- *only D 19 hose, length 20 m*
- *Connection hose D 19, length 1.4 m, with ball valve 3/4´´*
- *Steel cabinet with hose reel*

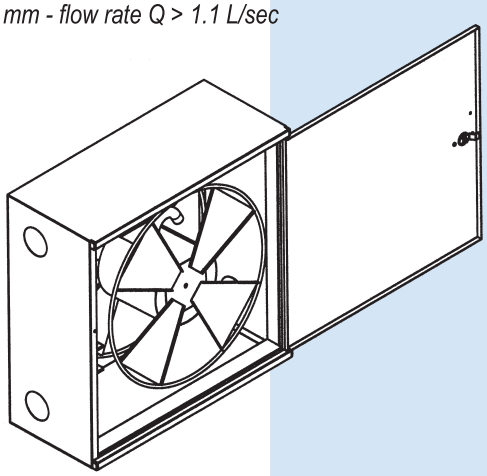


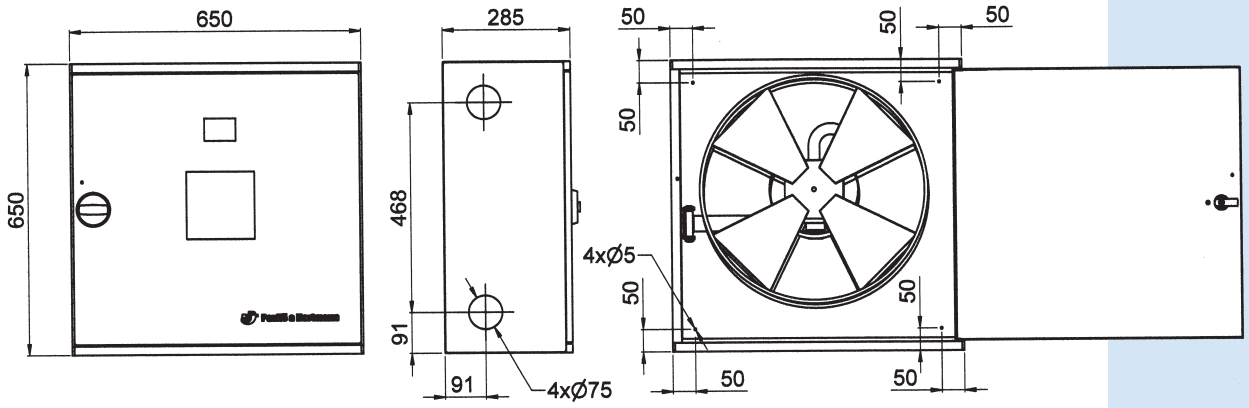


HYDRANT SYSTEM WITH D 25 SEMI-RIGID HOSE (W 650 x H 650 x D 285 mm)
Approved to CSN EN 671-1

The system includes:

- *D 25 fire nozzle, equiv. 6 mm – flow rate Q < 1.1 L/sec; equiv. 10 mm - flow rate Q > 1.1 L/sec*
- *D 25 hose, length 20 m or 30 m*
- *Connection hose D 25, length 1.4 m, with ball valve 3/4´´*
- *Steel cabinet with hose reel*

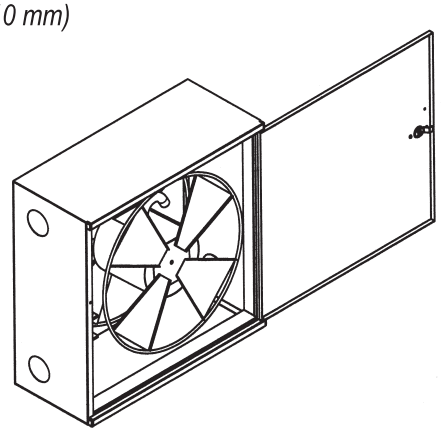


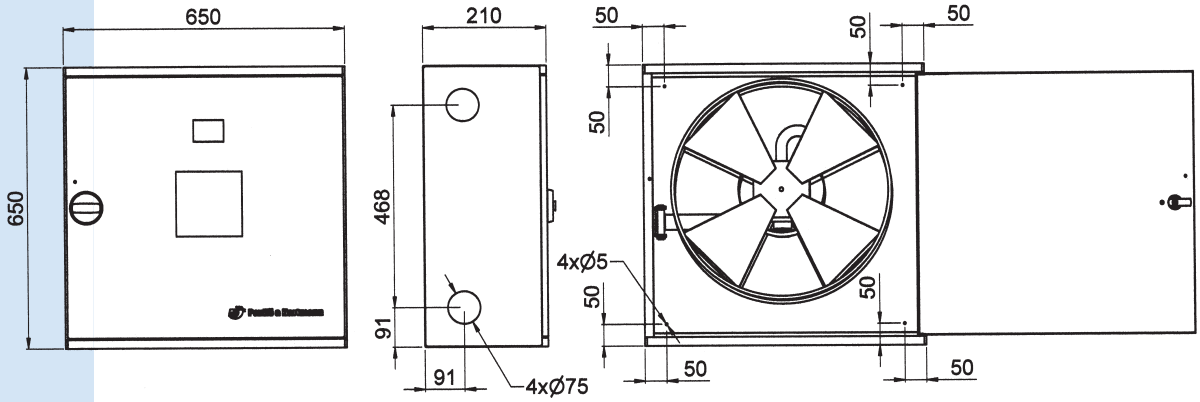


HYDRANT SYSTEM WITH D 25 SEMI-RIGID HOSE (W 650 x H 650 x D 210 mm)
Approved to CSN EN 671-1

The system includes:

- *D 25 fire nozzle, equiv. 6 mm – flow rate Q < 1.1 L/sec*
- *or equiv. 10 mm – flow rate Q > 1.1 L/sec*
- *D 25 hose, only 20 m length*
- *Connection hose D 25, length 1.4 m, with ball valve 1´´*
- *Steel cabinet with hose reel*

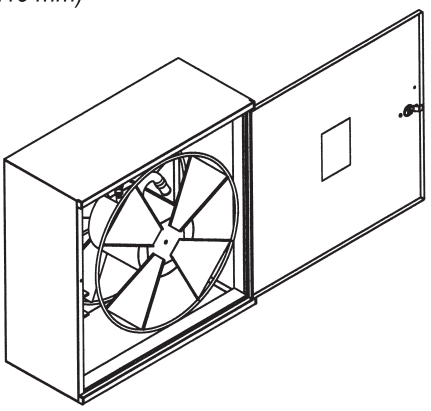


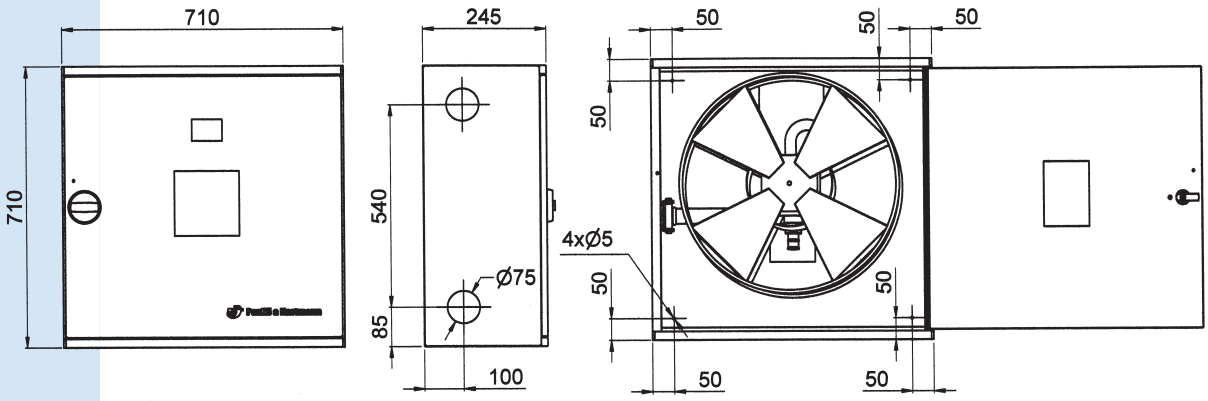


HYDRANT SYSTEM WITH D 25 SEMI-RIGID HOSE (W 710 x H 710 x D 245 mm)
Approved to CSN EN 671-1

The system includes:

- *D 25 fire nozzle, equiv. 6 mm – flow rate Q < 1.1 L/sec*
- *or equiv. 10 mm - flow rate Q > 1.1 L/sec*
- *D 25 hose, length 20 m or 30 m*
- *Connection hose D 25, length 1.4 m, with ball valve 1´´*
- *Steel cabinet with hose reel*





Hydrant systems with frame and door D19 and D25

Recess mounted design only







HYDRANT SYSTEMS WITH D 19 SEMI-RIGID HOSE

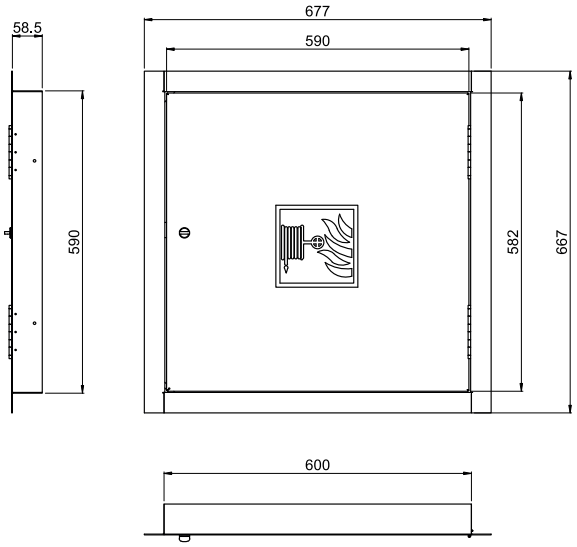
Dimensions	*Door*	*Hose*	*Fire nozzle*	*Cat. No.*
650 x 650 x 175	solid	20 m of D 19	equiv. 6	**svv 101 / R**
650 x 650 x 175	solid	30 m of D 19	equiv. 6	**svv 102 / R**
710 x 710 x 135	solid	20 m of D 19	equiv. 6	**svv 110 / R**
650 x 650 x 175	glass panelled	20 m of D 19	equiv. 6	**svv 103 / R**
650 x 650 x 175	glass panelled	30 m of D 19	equiv. 6	**svv 104 / R**
710 x 710 x 135	glass panelled	20 m of D 19	equiv. 6	**svv 111 / R**

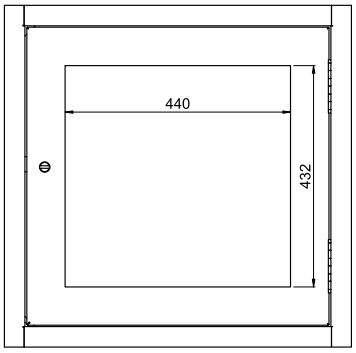
HYDRANT SYSTEMS WITH D 25 SEMI-RIGID HOSE

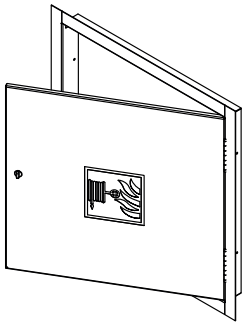
Dimensions	*Door*	*Hose*	*Fire nozzle*	*Cat. No.*
650 x 650 x 210	solid	20 m of D25	equiv. 6	**svv 005 / R**
650 x 650 x 210	solid	20 m of D25	equiv. 10	**svv 006 / R**
710 x 710 x 245	solid	30 m of D25	equiv. 6	**svv 016 / R**
710 x 710 x 245	solid	30 m of D25	equiv. 10	**svv 010 / R**
650 x 650 x 210	glass panelled	20 m of D25	equiv. 6	**svv 051 / R**
650 x 650 x 210	glass panelled	20 m of D25	equiv. 10	**svv 007 / R**

HYDRANT SYSTEMS 650X650X285 WITH D 25 SEMI-RIGID HOSE

Dimensions	*Door*	*Hose*	*Fire nozzle*	*Cat. No.*
650 x 650 x 285	solid	20 m of D25	equiv. 6	**svv 001 / R**
650 x 650 x 285	solid	20 m of D25	equiv. 10	**svv 002 / R**
650 x 650 x 285	solid	30 m of D25	equiv. 6	**svv 003 / R**
650 x 650 x 285	solid	30 m of D25	equiv. 10	**svv 004 /R**
650 x 650 x 285	glass panelled	20 m of D25	equiv. 6	**svv 027 / R**
650 x 650 x 285	glass panelled	20 m of D25	equiv. 10	**svv 011 / R**
650 x 650 x 285	glass panelled	30 m of D25	equiv. 6	**svv 029 / R**
650 x 650 x 285	glass panelled	30 m of D25	equiv. 10	**svv 012 / R**







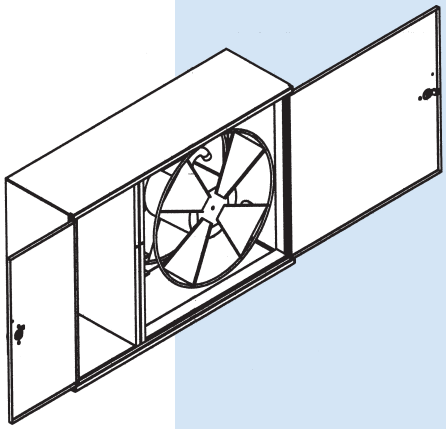
HYDRANT SYSTEM WITH A CABINET FOR FIRE EXTINGUISHER



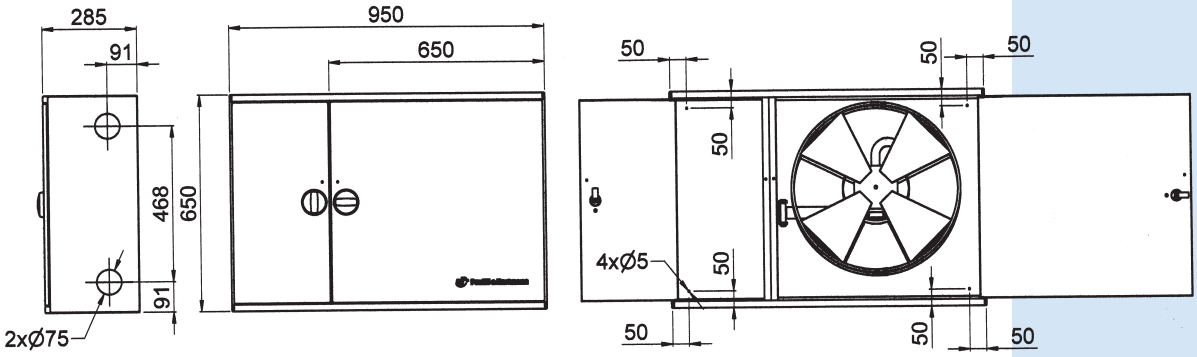
HYDRANT SYSTEM WITH D 25 SEMI-RIGID HOSE – KOMBI (W 950 x H 650 x D 285 mm)
Hydrant system with a cabinet for fire extinguisher.

The system includes:

- *D 25 fire nozzle, equivalent 6mm – flow rate Q < 1.1 L/sec*
- *or equivalent 10mm – flow rate Q > 1.1 L/sec*
- *D 25 hose of 20 or 30m length.*
- *D 25 connection hose of 1.4m length with 1" ball valve*
- *Steel cabinet with a reel.*



Dimension	Door	Hose	Fire nozzle	Cat. No.
950 x 650 x 285	solid	D 25 - 20 bm	ekv. 6	**skvvd 009**
950 x 650 x 285	solid	D 25 - 20 bm	ekv. 10	**skvvd 009**
950 x 650 x 285	solid	D 25 - 30 bm	ekv. 6	**skvvd 004**
950 x 650 x 285	solid	D 25 - 30 bm	ekv. 10	**skvvd 004**



RECESS MOUNTED HYDRANT SYSTEM

Recess mounted hydrant system consists of the same parts as the system with a box, only the box is replaced with a frame made of hollow square sections. This frame is used to fix the reel arm and the door with a revolving lock with a possibility of attaching a seal.

The frame is fitted with two anchors with holes to fix the frame to the wall or plaster board using dowels and installation foam. Drainage of the cabinet is to be made by an installation company through an opening of approx. 2x2 cm in the wall under the bottom edge of the frame.

This system offers the advantage of better access when connecting to water mains, longer service life and higher stiffness of the frame. The other data are consistent with the previous design.

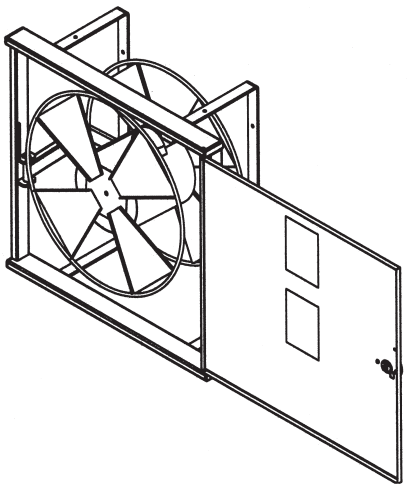


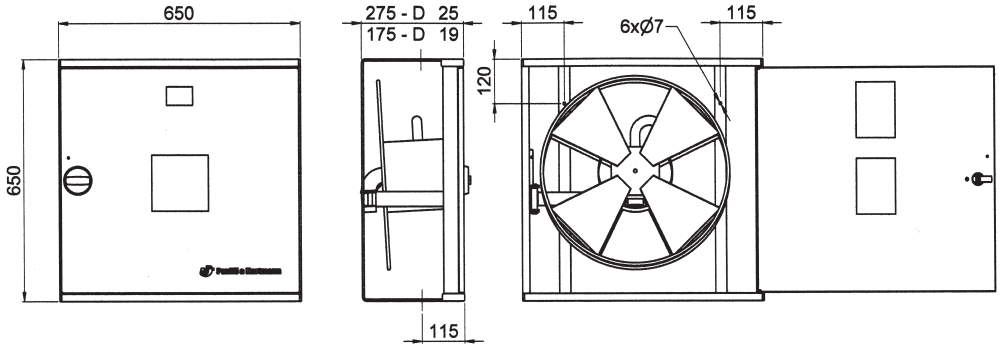


RECESS MOUNTED HYDRANT SYSTEMS

Approved to CSN 73 0873 and CSN EN 671-1

Door	*Hose*	*Fire nozzle*	*Cat. no.*
solid	*30 m of D 19*	*equiv. 6*	**svv 210 /**
solid	*20 m of D 19*	*equiv. 6*	**svv 211 /**
glass panelled	*30 m of D 19*	*equiv. 6*	**svv 212 /**
glass panelled	*20 m of D 19*	*equiv. 6*	**svv 213 /**
solid	*30 m of D 25*	*equiv. 10*	**svv 201 /**
solid	*20 m of D 25*	*equiv. 10*	**svv 200 /**
solid	*30 m of D 25*	*equiv. 6*	**svv 202 /**
solid	*20 m of D 25*	*equiv. 6*	**svv 203 /**
glass panelled	*30 m of D 25*	*equiv. 10*	**svv 204 /**
glass panelled	*20 m of D 25*	*equiv. 10*	**svv 205 /**
glass panelled	*30 m of D 25*	*equiv. 6*	**svv 206 /**
glass panelled	*20 m of D 25*	*equiv. 6*	**svv 207 /**





HYDRANT SYSTEM with stainless steel door

Recess mounted design only





solid

glass-panelled

Due to surface treatment by bead blasting, the Hydrant System should not be situated in aggressive environment such as chemical operations, swimming pools etc.

HYDRANT SYSTEM with stainless steel door

HYDRANT SYSTEMS with semi-rigid hose

Approved to CSN 73 0873 and CSN EN 671-1 - recess mounted version, stainless steel door including frame

Frame and door material	Door	Hose	Fire nozzle	Cat. No.
stainless steel sheet	solid	30 m of D 25	equiv. 10	**svv 013**
stainless steel sheet	solid	20 m of D 25	equiv. 10	**svv 026**
stainless steel sheet	solid	30 m of D 25	equiv. 6	**svv 060**
stainless steel sheet	solid	20 m of D 25	equiv. 6	**svv 061**
stainless steel sheet	glass panelled	30 m of D 25	equiv. 10	**svv 062**
stainless steel sheet	glass panelled	20 m of D 25	equiv. 10	**svv 063**
stainless steel sheet	glass panelled	30 m of D 25	equiv. 6	**svv 064**
stainless steel sheet	glass panelled	20 m of D 25	equiv. 6	**svv 065**
stainless steel sheet	solid	20 m of D 19	equiv. 6	**svv 106**
stainless steel sheet	solid	30 m of D 19	equiv. 6	**svv 108**
stainless steel sheet	glass panelled	20 m of D 19	equiv. 6	**svv 115**
stainless steel sheet	glass panelled	30 m of D 19	equiv. 6	**svv 116**

HYDRANT SYSTEM

All-stainless-steel

Surface mounted design only



Due to surface treatment by bead blasting, the Hydrant System should not be situated in aggressive environment such as chemical operations, swimming pools etc.

HYDRANT SYSTEMS 650 X 650 X 285 with D 25 semi-rigid hose

approved to CSN 730873 and CSN EN 671-1 - surface mounted design

Cabinet material	Door	Hose	Fire nozzle	Cat. No.
stainless steel sheet	solid	30 m of D 25	equiv. 10	**svv 030**
stainless steel sheet	solid	20 m of D 25	equiv. 10	**svv 033**
stainless steel sheet	solid	30 m of D 25	equiv. 6	**svv 053**
stainless steel sheet	solid	20 m of D 25	equiv. 6	**svv 054**
stainless steel sheet	glass panelled	30 m of D 25	equiv. 10	**svv 055**
stainless steel sheet	glass panelled	20 m of D 25	equiv. 10	**svv 056**
stainless steel sheet	glass panelled	30 m of D 25	equiv. 6	**svv 057**
stainless steel sheet	glass panelled	20 m of D 25	equiv. 6	**svv 058**

HYDRANT FOAM SYSTEM with D 25 semi-rigid hose

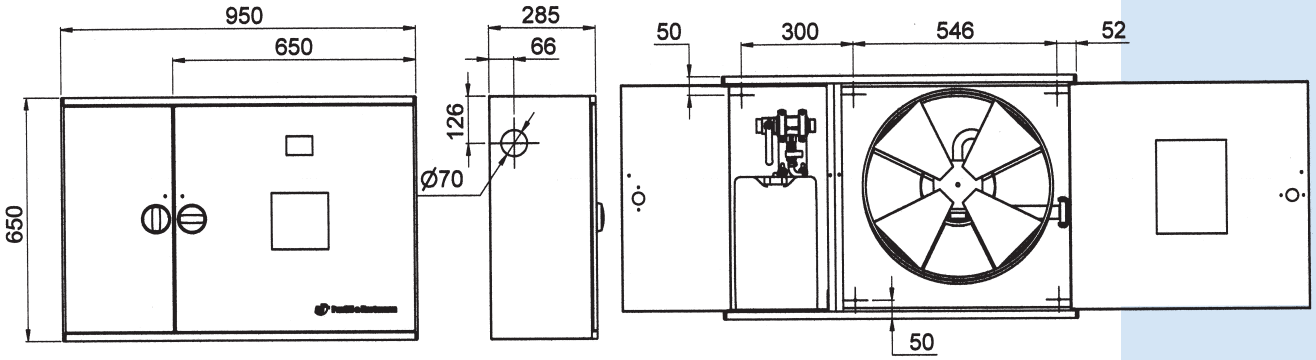
UNIVERSAL DESIGN

Hydrant foam system with D 25 semi-rigid hose is yet another of the certified fire fighting systems produced and marketed by Pavlis a Hartmann. This product diversifies the complete line of D 19, 25 and 33 hydrant systems with semi-rigid hose with the first already certified type of foam-inducing system. The system uses an admixer and a foam inducing nozzle developed by our engineers in the Pavlis a Hartmann design centre.

The system includes:
- Steel cabinet with reel (W 950 x H 650 x D 285)
- D 25 admixer for HS application with G1" ball valve
- D 25 connecting hose 1.4 m long
- D 25 hose maximum length of 30 m
- Tank with foamer (15 L)
- Fire foam inducing nozzle for heavy foam with a ball valve
- Suction hose with a stainless steel tube

The drawing illustrates LEFT-hand design (water inlet from the left). RIGHT-hand design is available as well (water inlet from the right).





Application:

The hydrant foam inducing system is designed for initial extinguishing using heavy foam. The amount of the foamer will last for the period of 7 minutes at least. The system is normally equipped with the jet for the application of 3% foamer which is included in the delivery.

The tank with foamer can only be opened in the case of action. Otherwise there is a danger of foamer degradation. The equipment can also be used for extinguishing with water. In such a case, the suction valve of the admixer must be kept closed. After each action with the use of foamer, the whole system is to be flushed with clean water by removing the suction stainless-steel tube from the tank with foamer and inserting it in a tank with clean water. Then open the suction valve of the admixer and flush the whole system thoroughly.

Water – foamer 3% (accuracy of admixing approved to CSN EN 13565-1, Section 7; 2.5 mm orifice)					
Pressure (MPa)	0.2	0.3	0.4	0.5	0.6
Flow rate (L/min)	37.3	43.6	48.6	53.3	57.6
Discharge range (m)	7	8	9	10	10
Suction (g)	1150	1400	1600	1750	1750
% of admixing	3	3.2	3.2	3.2	3

Specifications of quality parameters of foam (under CSN EN 1568-3)
Foaming number is 3.7 – 6.4 at pressure 0.2 – 0.4 MPa.

Description of the system:

The hydrant foam inducing system includes a reel with D 25 semi-rigid hose of max. 30 m on a swinging arm installed in a cabinet, 1.4 m connecting hose of the same diameter, D 25 fire nozzle for heavy foam, admixer with the main ball valve and a 15-litre tank with foamer.

The nozzle (equiv. to 7) consists of the body made of light weight alloy with holes for air suction and plastic coating for safety grip and protection against cold, and a D 25 lever-operated ball valve with connecting thread of 1". The positions are marked with arrows and symbols ON-OFF.

The admixer is installed before the reel. It consists of a body with diffuser of brass, a 3/8" ball valve of the foamer suction system with a replaceable jet and suction hose ended with a stainless steel tube. In case of an action, this tube is inserted into the tank with foamer located in the cabinet.

At the inlet, the admixer is fitted with a D 25 ON-OFF ball valve and at the outlet with a male thread G 1" to which the connecting hose is fastened. The direction of water flow is marked with an arrow on the admixer body.

The cabinet is made of sheet steel with textured RAL 3000 (red) tint powder coated surface.
Cabinet dimensions are 950 x 650 x 285 mm. It is divided into two parts. One part contains the reel with hose and the nozzle and the other part houses the admixing equipment and a 15-litre foamer tank. Two variants of the system are available. The left hand version has the water inlet and tank in the left hand part of the box while the right hand version has these on the right hand side. The closing system is fitted with a plastic lock allowing the application of a seal. The cabinet is designed for indoor environment.

Installation of the system is similar to that of the other fire hydrant systems manufactured by Pavlis a Hartmann.

THE EQUIPMENT IS DESIGNED FOR FROST-FREE INDOOR ENVIRONMENT.

HYDRANT FOAM SYSTEM with D 25 semi-rigid hose

approved under CSN EN 671-1 – surface mounted design

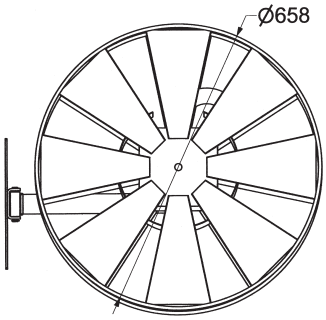
Dimension	Door	Hose	Fire nozzle	Cat. No.
950 x 650 x 285	solid	20 m of D 25	foam-inducing	**svv 302 /**
950 x 650 x 285	solid	30 m of D 25	foam-inducing	**svv 301 /**

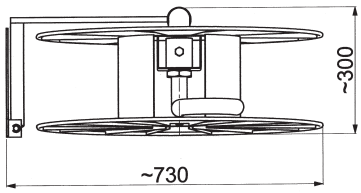
HYDRANT SYSTEM with D 33 semi-rigid hose

Pavlis a Hartmann has developed and launched a newly certified fire hydrant system with D 33 semi-rigid hose. This product supplements the line of hydrant systems with the type with the highest output – up to 200 L/min. under the 671-1 standard.

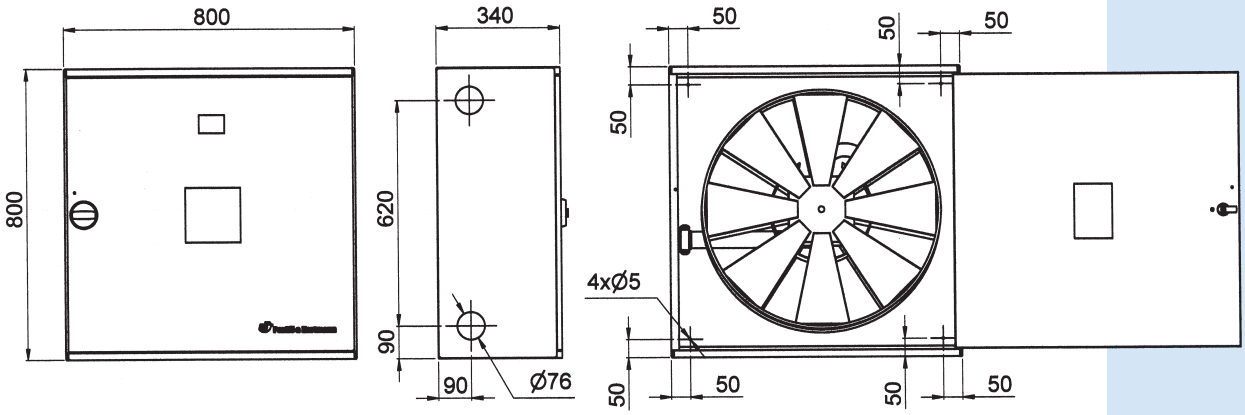
The manufacturing programme of Pavlis a Hartmann now includes all three types of the hydrant systems with D 19, 25 and 33 semi-rigid hose specified in the 671-1 standard, for which EC certificates have been issued.

The system includes:
- *Tajfun Turbo fire nozzle equivalent to 13 mm*
- *D 33 hose up to 30 m long*
- *D 33 connecting hose, 1.4 m long with 5/4" ball valve*
- *Steel cabinet with reel (800 x 800 x 340 mm)*
- *Can be installed without cabinet, with bracket*









The hose reel with D 33 hose is especially suitable where large amount of water is required - refer to the table.

Pressure (MPa)	*0.2 MPa*	*0.4 MPa*	*0.6 MPa*
Type of stream		*Flow rate (L/min)*	
Jet	*113.5*	*162.2*	*200*
Spray	*115*	*163.2*	*200*
Type of stream		*Maximum throw distance (m)*	
Jet	*15*	*24*	*30*
Spray	*9*	*9*	*10*

Manufacturer: Pavlis a Hartmann, spol. s r.o., V Telcicich 249, 533 12 Chvaletice
Fire hydrant system with a semi-rigid hose represents a very efficient fire extinguishing system with uninterrupted water supply, which is available immediately. This system can be operated by a single person.

Description of the system:

The fire hose reel is designed as a swinging hose reel with manual control. The whole system is inserted into a metal cabinet designed for surface or recess mounting. To facilitate water supply into the system, the cabinet is equipped with two knock-out holes at the top and bottom of both side walls of the cabinet (standard cabinet dimension – 800 x 800 x 340 mm).

The hose reel is installed on a swinging arm. It is made of two side discs and 8 mm wire. Standard reel dimensions are 658 mm in diameter and 216 mm wide.

The D 33 Semi-rigid fire hose is manufactured by Pavlis a Hartmann under the trade name PH-hydrant-D-stabil D 33; certificate No. 221/032/2005. Maximum hose length is 30 m.

Tajfun Turbo spray nozzle (equivalent to 13 mm) with revolving head made by Pavlis a Hartmann was approved and certified under No. 221/0002/1999.

Manually controlled inlet valve of the "quick-open" type is a ball valve marked with 1 1/4" PN 30 D 32.

The hydrant reel can be installed on the wall independently without cabinet using a steel bracket, or the arm holder can be welded onto a steel structure.

We recommend installing the steel bracket on the wall with 4 steel screws of min. 8 mm diameter.

Hose systems are to be installed at the height of 1.1 to 1.3 m above the floor (measured to the centre of equipment).



THIS EQUIPMENT IS DESIGNED FOR FROST-FREE INDOOR AREAS.

HYDRANT SYSTEM with D 33 semi-rigid hose

approved to CSN 730873 and CSN EN 671-1

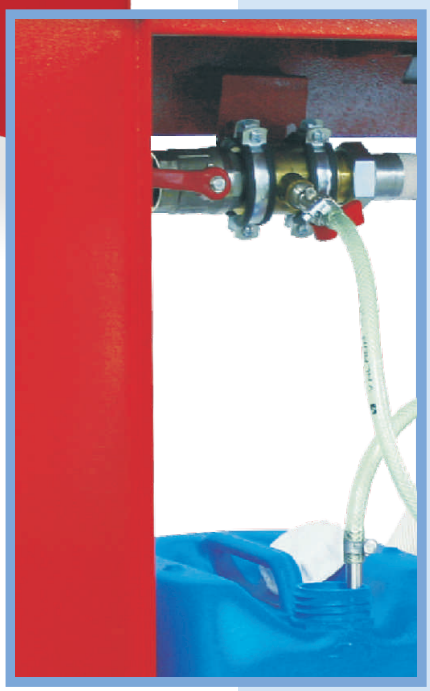
Dimensions	Door	Hose	Fire nozzle	Design	Cat. No.
800 x 800 x 340	*solid*	*30 m of D 33*	*equiv. 13*	*in cabinet*	***svv 080 /***
800 x 800 x 340	*solid*	*20 m of D 33*	*equiv. 13*	*in cabinet*	***svv 081 /***
		30 m of D 33	*equiv. 13*	*reel with bracket*	***nvv 080 /***
		20 m of D 33	*equiv. 13*	*reel with bracket*	***nvv 081 /***

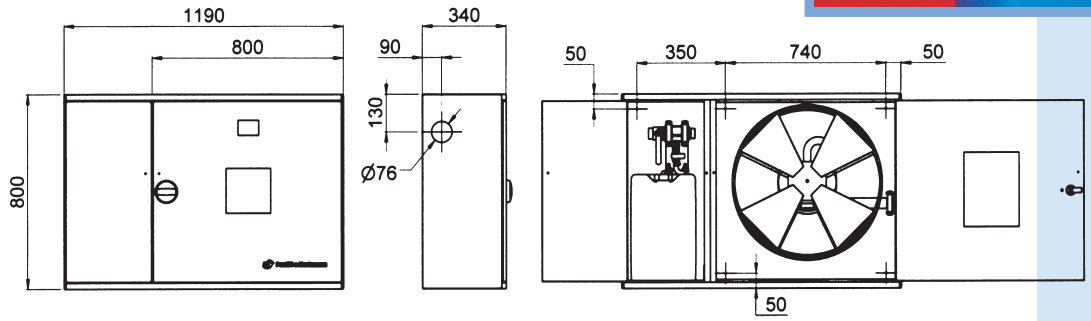
HYDRANT FOAM SYSTEM with D 33 semi-rigid hose

Hydrant foam system with D 33 semi-rigid hose is yet another of the certified fire fighting systems produced and marketed by Pavlis a Hartmann. This product diversifies the complete line of D 19, 25 33 and foam inducing D 25 hydrant systems with semi-rigid hose with the second already certified type of foam-inducing system. The system uses an admixer and a foam inducing nozzle developed by our engineers in the Pavlis a Hartmann design centre.

The system includes:
- Steel cabinet with reel (W 1190 x H 800 x D 340
- D 33 admixer for HS application with a ball valve
- D 33 connecting hose 1.4 m long
- D 33 hose maximum length of 30 m
- Tank with foamer (20 L)
- Fire foam inducing nozzle for heavy foam with a ball valve
- Suction hose with a stainless steel tube







The drawing illustrates LEFT-hand design (water inlet from the left). RIGHT-hand design is available as well (water inlet from the right).

The hydrant foam inducing system is designed for initial extinguishing using heavy foam. The amount of the foamer will last for the period of 7 minutes at least. The system is normally equipped with the jet for the application of 1% foamer which is included in the delivery.

The tank with foamer can only be opened in the case of action. Otherwise there is a danger of foamer degradation. The equipment can also be used for extinguishing with water. In such a case, the suction valve of the admixer must be kept closed. After each action with the use of foamer, the whole system is to be flushed with clean water by removing the suction stainless-steel tube from the tank with foamer and inserting it in a tank with clean water. Then open the suction valve of the admixer and flush the whole system thoroughly.

Water – foamer 1% (accuracy of admixing approved to CSN EN 13565-1, Section 7)					
Pressure (MPa)	0.4	0.6	0.8	1.0	1.2
Flow rate (L/min	92	112	129	142	156
Discharge range (m)	8.5	12.5	14	16	18
Suction (g)	1300	1600	1700	1640	1900
% of admixing	1.4	1.4	1.3	1.15	1.2

Specifications of quality parameters of foam (under CSN EN 1568-3)
Foaming number is 6.1 – 6.8 at pressure 0.4 – 1.0 MPa.

Manufacturer: Pavlis a Hartmann, spol. s r.o., V Telcicich 249, 533 12 Chvaletice
Fire hydrant system with a semi-rigid hose represents a very efficient fire extinguishing system with uninterrupted water supply, which is available immediately. This system can be operated by a single person.

Description of the system:

The hydrant foam inducing system includes a reel with D 33 semi-rigid hose of max. 30 m on a swinging arm installed in a cabinet, 1.4-m connecting hose of the same diameter, a D 33 fire nozzle for heavy foam, an admixer with the main ball valve and a 20-litre tank with foamer.

The nozzle (equiv. to 10) consists of the body made of light weight alloy with holes for air suction and plastic coating for safety grip and protection against cold, and a D 33 lever-operated ball valve with connecting thread G 1 1/4".

The positions are marked with arrows and symbols ON-OFF.

The admixer is fitted before the reel. It consists of a body with diffuser of brass, a 3/8" ball valve of the foamer suction system with a replaceable jet and suction hose ended with a stainless tube. In case of an action, this tube is inserted into the tank with foamer located in the cabinet.

At the inlet, the admixer is fitted with a D 33 ON-OFF ball valve and at the outlet with male thread G 1 1/4" to which the connecting hose is fastened. The direction of water flow is marked with an arrow on the admixer body.

The cabinet is made of sheet steel with textured RAL 3000 tint powder coated surface. Cabinet dimensions are 1190 x 800 x 340 mm. It is divided into two parts. One part contains the reel with hose and the nozzle and the other part houses the admixing equipment and a 20-litre foamer tank. Two variants of the system are available. The left hand version has the water inlet and tank in the left hand part of the box while the right hand version has these on the right-hand side. The closing system isfitted with a plastic lock allowing the application of a seal. The cabinet is designed for indoor environment.

Installation of the system is similar to that of the other fire hydrant systems manufactured by Pavlis a Hartmann.

THIS EQUIPMENT IS DESIGNED FOR FROST-FREE INDOOR AREAS

HYDRANT FOAM SYSTEM with D 33 semi-rigid hose

approved under CSN EN 671-1 – surface mounted design

Dimensions	*Door*	*Hose*	*Fire nozzle*	*Cat. No.*
1190 x 800 x 340	*solid*	*20 m of D 33*	*Foam-inducing*	***svv 310 /***
1190 x 800 x 340	*solid*	*30 m of D 33*	*Foam-inducing*	***svv 311 /***

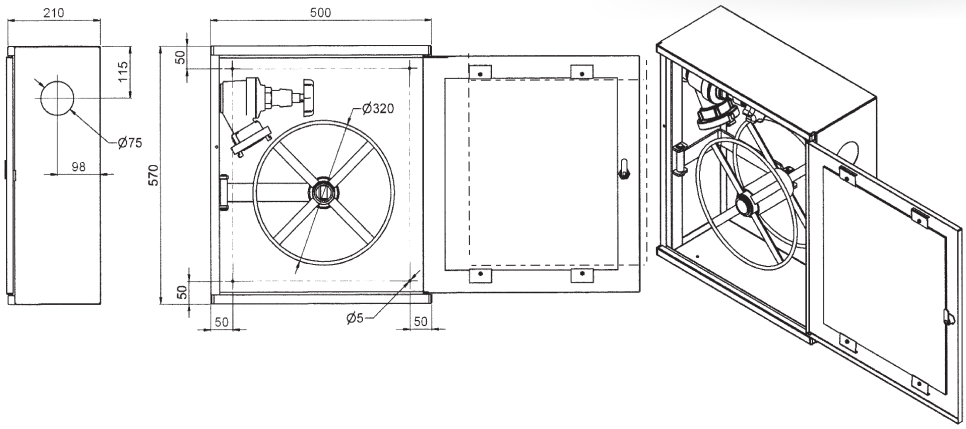
HYDRANT SYSTEMS WITH C 52 LAY-FLAT HOSE

It can be connected to the supply piping of D 2" or larger.

The system includes:
- TAJFUN - TURBO C 52 fire nozzle
- 20 m of C 52 hose
- Al C 52 wall mounted hydrant
- Steel cabinet (W 500 x H 570 x D 210)
- Hose reel

Catalogue Number: **ksc 002**





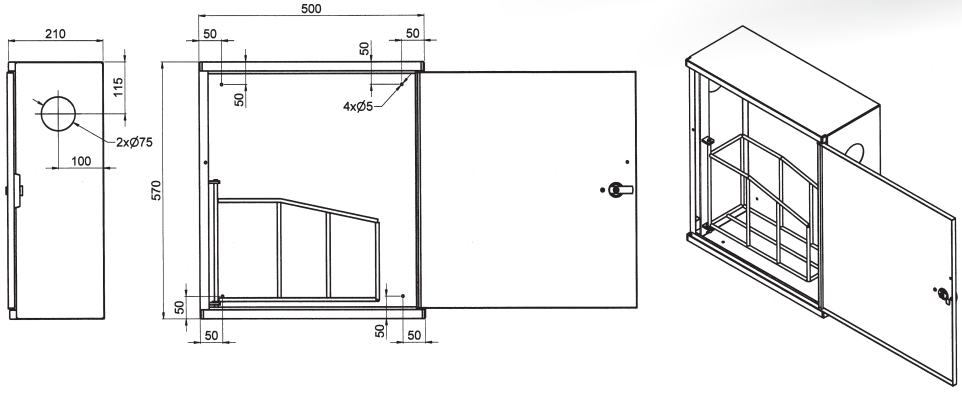
HYDRANT SYSTEMS WITH C 52 LAY-FLAT HOSE

Approved to CSN 730873 as amended in June 2003, and CSN EN 671-2
It can be connected to the supply piping of D 2" or larger.

The system includes:
- TAJFUN - TURBO C 52 fire nozzle
- 20 m of C 52 hose
- Al C 52 wall mounted hydrant
- Steel cabinet (W 500 x H 570 x D 210)
- Hose rack

Catalogue Number: **ksc 001**





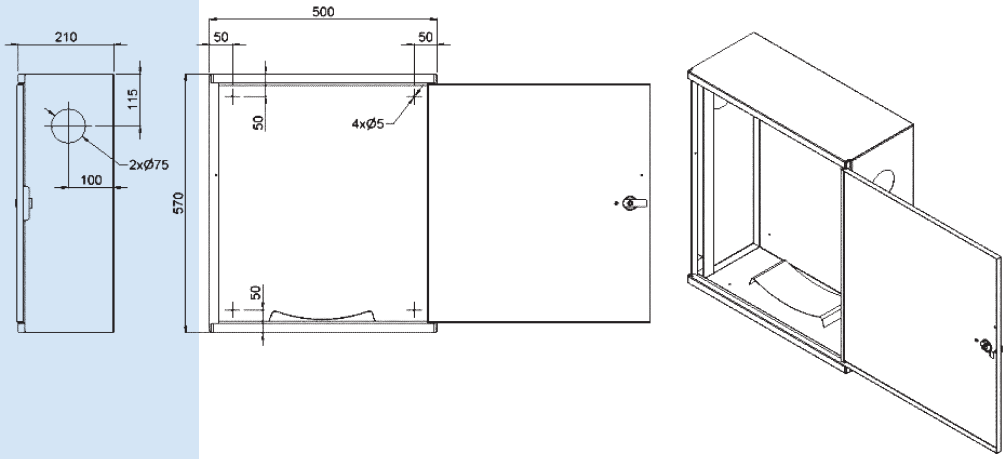
HYDRANT SYSTEMS C 52 WITH CRADDLE

Approved to CSN 730873 as amended in June 2003, and CSN EN 671-2
Fire hydrant system without hose rack does not comply with the standard amendment.
It can be connected to the supply piping of D 2" or larger.

The system includes:
- TAJFUN - TURBO C 52 fire nozzle
- 20 m of C 52 hose
- Al C 52 wall mounted hydrant
- Steel cabinet (W 500 x H 570 x D 210)
- Hose cradle

Catalogue Number: **ksvvc**





D 25 SURFACE MOUNTED HYDRANT CABINET

Width:	460 mm
Height:	460 mm
Depth:	110 mm
Weight:	3.47 kg

Catalogue Number **fin 101**

If complete it is not in compliance with CSN 730873.
The system includes:
- D 25 fire nozzle
- 20 m of D 25 hose
- Surface-mounted D 25 hydrant
- Steel cabinet



HYDRANT CABINET

Width:	750 mm
Height:	1150 mm
Depth:	400 mm

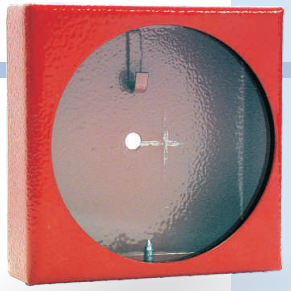
Catalogue Number: **fin 004**



SMALL KEY BOX

Width:	75 mm
Height:	75 mm
Depth:	25 mm
Weight:	0.145 kg

Catalogue Number: **fin 341**



LARGE KEY BOX

Width:	115 mm
Height:	115 mm
Depth:	30 mm
Weight:	0.295 kg

Catalogue Number: **vv 455**



SMALL KEY BOX - PLASTIC

Width:	74 mm
Height:	74 mm
Depth:	23 mm
Weight:	0.047 kg

Catalogue Number: **vv454**



BOX FOR HAND FIRE EXTINGUISHER

Width:	*280 mm*
Height:	*650 mm*
Depth:	*285 mm*
Weight:	*6.40 kg*

Catalogue Number: ***vv082***



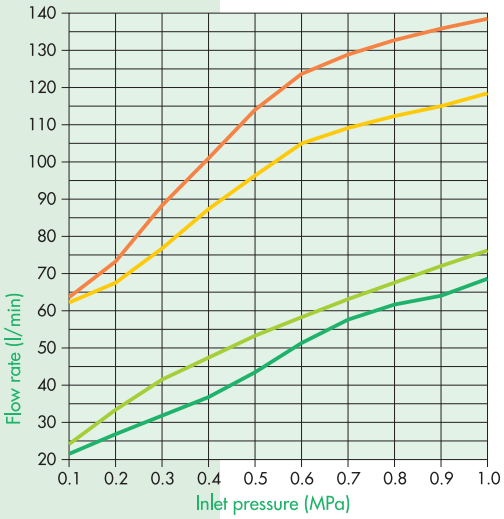
ADJUSTABLE COMBINED D 25

Designed for extinguishing fire by full jet or stream with smoothly adjustable spraying angle.

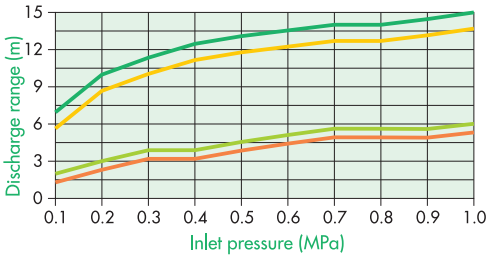
Weight:	0.125 kg (coupling made of Al alloy) 0.09 kg (coupling made of composite)
Working perssure:	1.6 MPa
Lenght:	192 mm
Material:	polypropylene
D 25 coupling:	Al alloy or composite
Diameter of nozzle:	6 mm or 10 mm



Flow rate (l/min)



Discharge range (m)



Ø 6 mm nozzle spray stream

Ø 10 mm nozzle jet stream

Ø 6 mm nozzle jet stream

Ø 10 mm nozzle spray stream

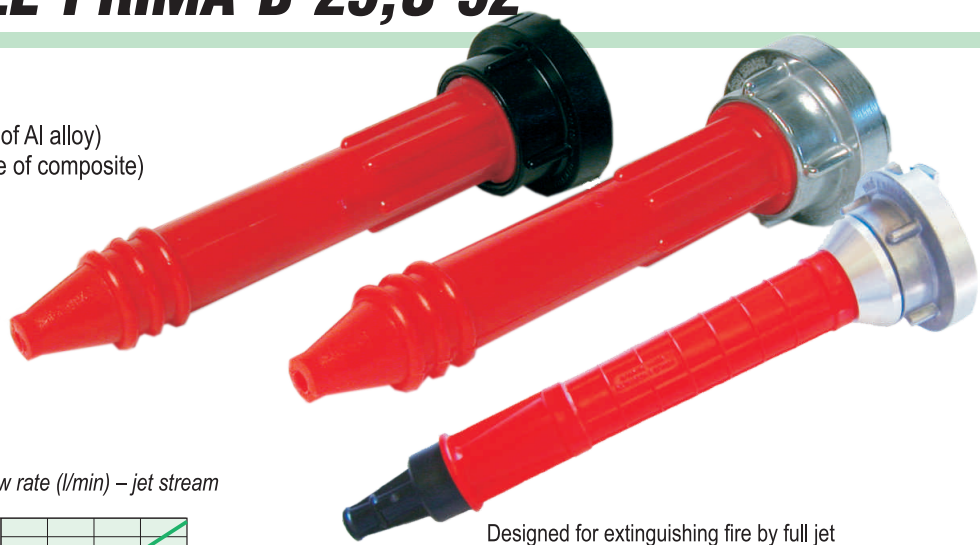
Nozzle tip	Coupling	Cat. No.
6	Al	**vv 111**
6	composite	**vv 124**
6	without coupling	**vv 140**
10	Al	**vv 117**
10	composite	**vv 112**
10	without coupling	**vv 141**

The nozzle with a 10 mm nozzle tip is certified only in the hydrant system to CSN EN 671-1.

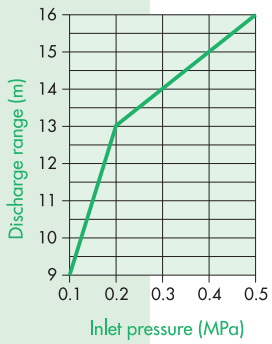
STRAIGHT NOZZLE PRIMA D 25,C 52

Designed for extinguishing fire by full jet

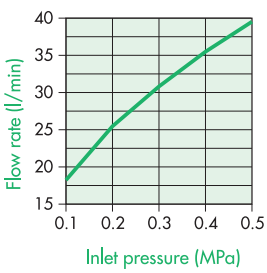
Weight:	0.1 kg (coupling made of Al alloy) 0.07 kg (coupling made of composite)
Working pressure:	1.6 MPa
Lenght:	190 mm
Material:	polypropylene
D 25 coupling:	Al alloy or composite
Diameter of nozzle:	5 mm



Discharge range (m) - jet stream



Flow rate (l/min) – jet stream



Coupling	*Cat. No.*
Al	**vv 118**
composite	**vv 128**

Designed for extinguishing fire by full jet

Working pressure:	1,6 MPa
Length:	425 mm
Weight:	0,49 kg
Removable nozzle:	9 mm

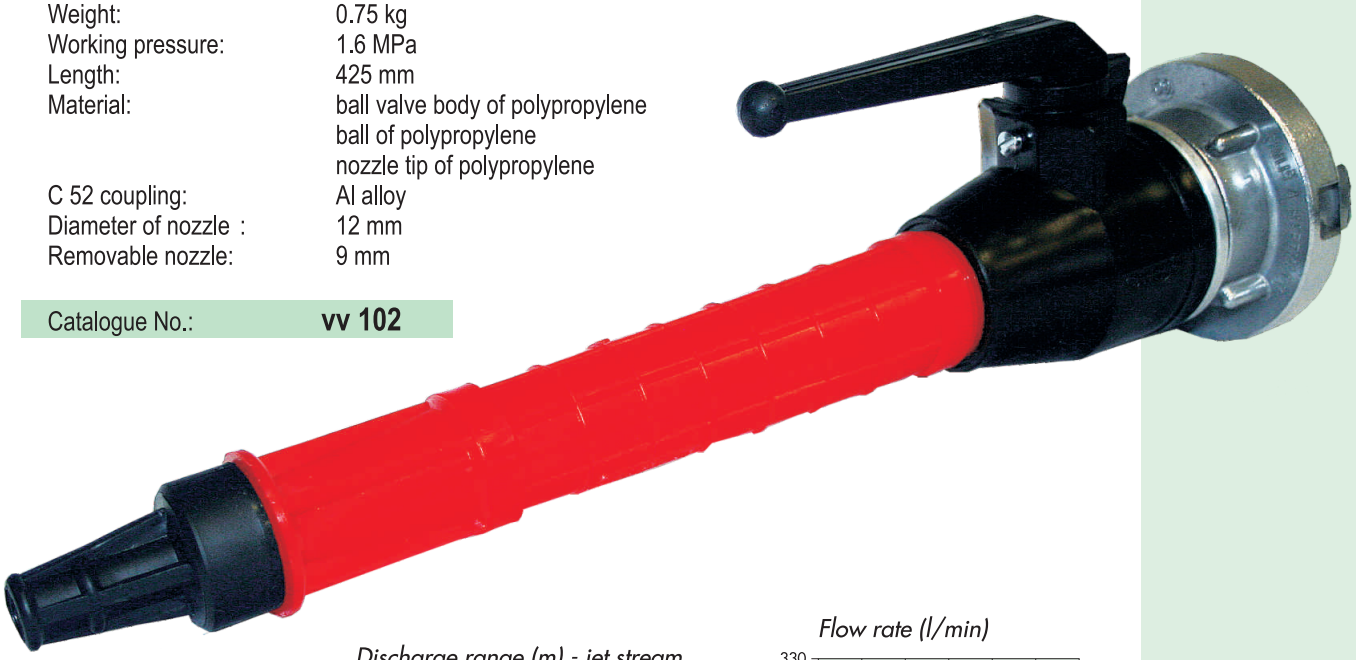
Cat. No. **vv 142**

PLASTIC NOZZLE C 52

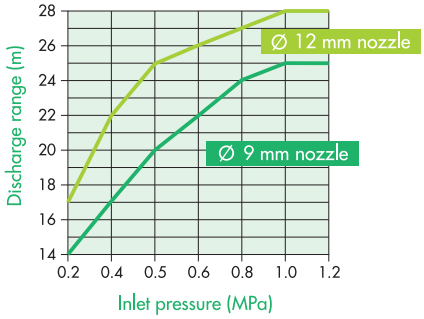
Designed for extinguishing fire by full jet

Weight:	0.75 kg
Working pressure:	1.6 MPa
Length:	425 mm
Material:	ball valve body of polypropylene
	ball of polypropylene
	nozzle tip of polypropylene
C 52 coupling:	Al alloy
Diameter of nozzle :	12 mm
Removable nozzle:	9 mm

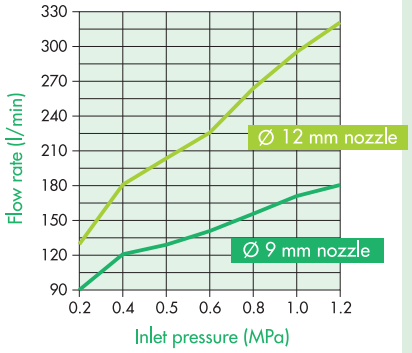
Catalogue No.: **vv 102**



Discharge range (m) - jet stream



Flow rate (l/min)

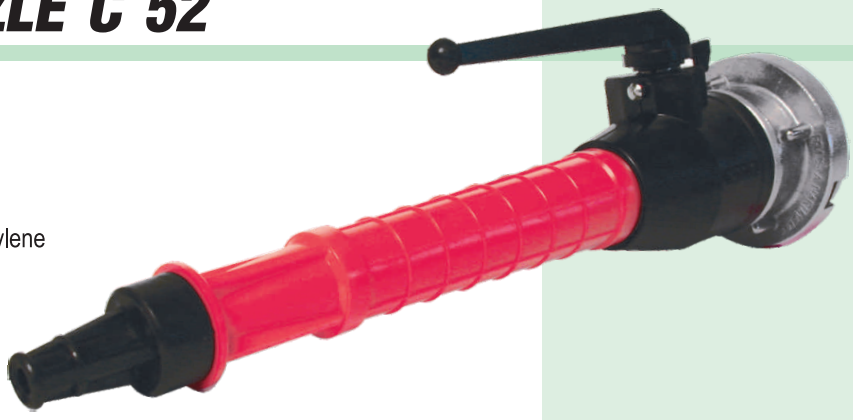


PLASTIC COMBI NOZZLE C 52

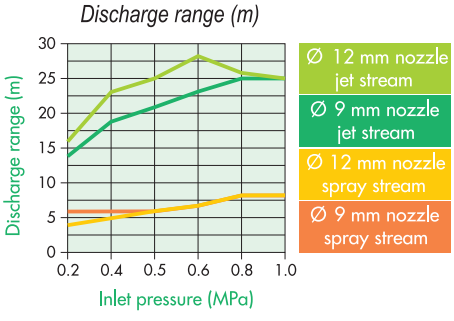
Designed for extinguishing fire by full jet or spray stream

Weight:	0.82 kg
Working pressure:	1.6 MPa
Length:	425 mm
Material:	ball valve body of polypropylene
	ball of duralumin
	nozzle tip of polypropylene
C 52 coupling:	Al alloy
Diameter of nozzle:	12 mm
Removable of nozzle:	9 mm

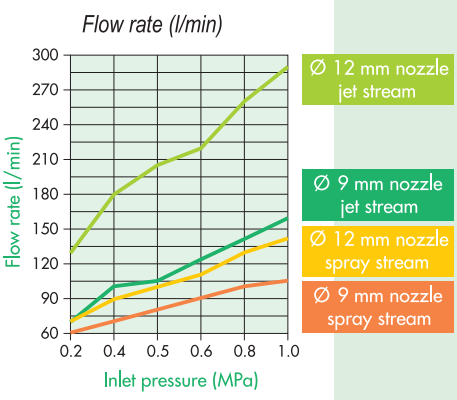
Catalogue No.: **vv 115**



Discharge range (m)



Flow rate (l/min)



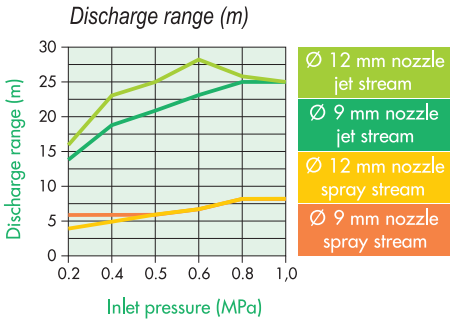
KOMBI AL NOZZLE C 52

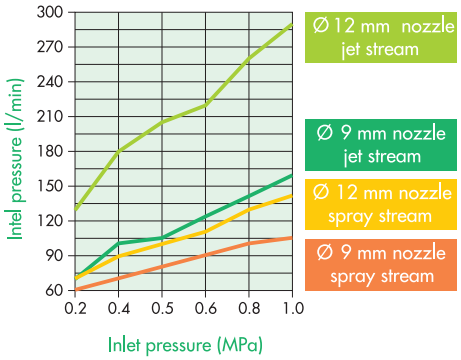
Designed for extinguishing fire by full jet or spray stream

Weight:	1.1 kg
Working pressure:	1.6 MPa
Length:	426 mm
Material:	ball valve body of Al alloy
	ball of duralumin
	nozzle tip of polypropylene
C52 coupling:	Al alloy
Diameter of nozzle	12 mm
Removable nozzle:	9 mm

Cat. No.: **vv 113**





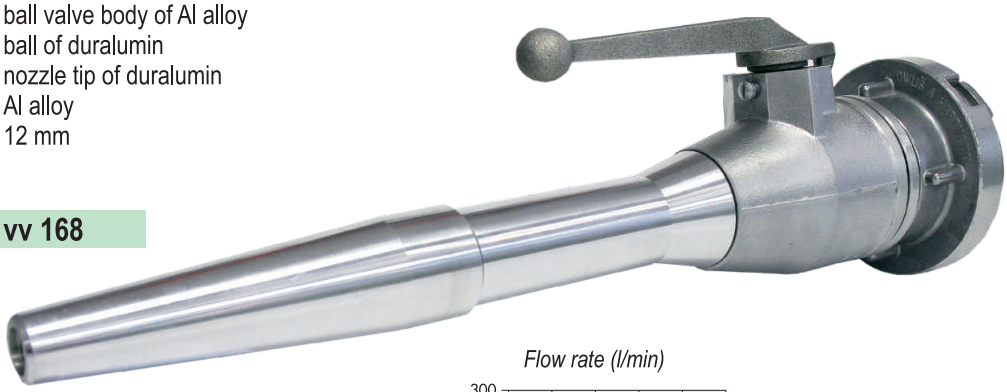


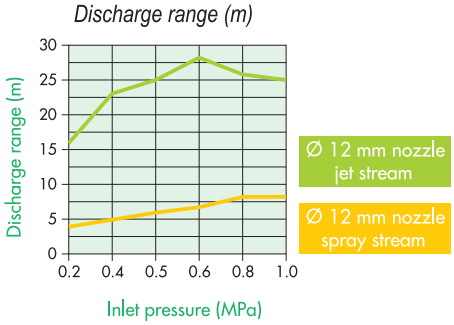
INDUSTRIAL ALL METAL NOZZLE C 52

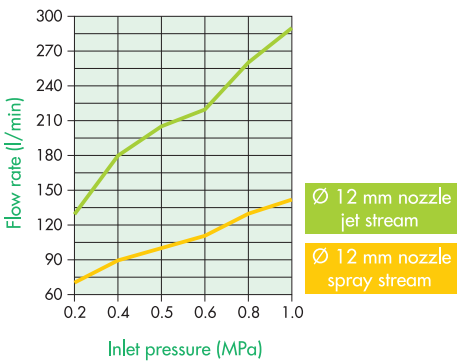
The nozzle can use jet or spray stream.

Max. working pressure:	1.6 MPa
Weight:	1.45 kg
Length:	400 mm
Material:	ball valve body of Al alloy
	ball of duralumin
	nozzle tip of duralumin
C 52 coupling:	Al alloy
Diameter of nozzle:	12 mm

Catalogue No.: **vv 168**







FIRE-FIGHTING COMPETITION NOZZLE PH-SPORT

This nozzle is designed for fire-fighting competition, both for the hinged targets and the spray targets. Its excellent properties have been achieved by using light-weight quality material. Even with different combinations of pumps and powerful engines, this nozzle keeps very compact stream of water and is able to knock down the target at a long distance.



Max. working pressure	1.6 MPa
Weight:	0.405 kg
Length:	400 mm
Material:	duralumin
Diameter of nozzle	12.5 mm

Catalogue No.:	**vv 262**

TAJFUN - TURBO C 52 NOZZLE

This nozzle is designed for water using full jet and spray stream, especially for fighting dusty and easily swirling substances (e.g. coal, flour, etc.). It will especially find its use in coal management facilities in the power industry, coal boiler rooms, silos, joiner´s workshops, farming facilities and for forest fires. When extinguishing apartment fires, we recommend the pattern of dispersed fog for a maximum extinguishing effect with minimum consumption of water in order to minimize the damage resulting from the action.

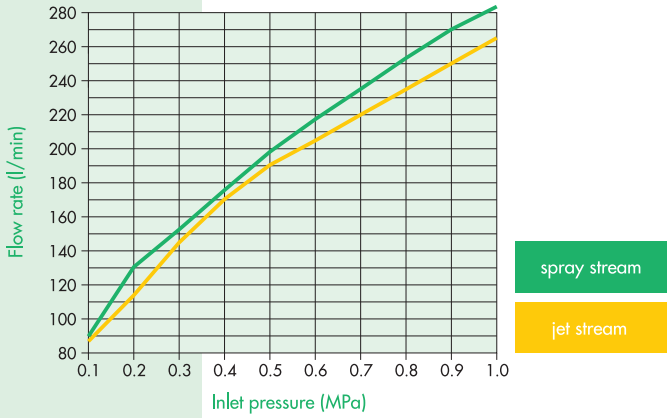
The Tajfun – Turbo C52 nozzle can be closed, adjusted by the revolving head to a jet stream or, by further revolving, it can be adjusted to a spray stream within the range of 0 – 130°.

All the materials used were selected in view of exceptional stress to which the nozzle may be exposed during a fire action.

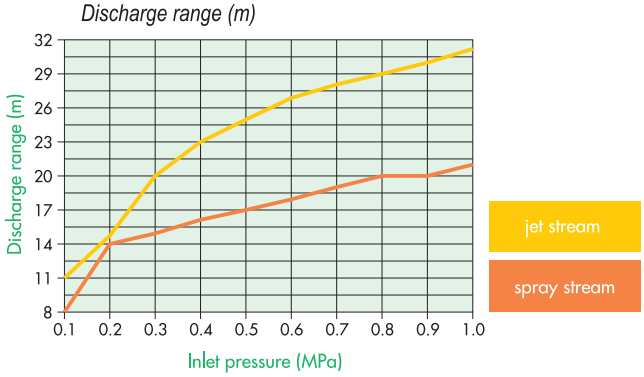
Weight:	0.47 kg
Working pressure:	1.6 MPa
Length:	315 mm
Material:	body and the revolving head of shock-proof and frost-proof polypropylene
C 52 coupling:	Al alloy
Catalogue No.:	**vv 116**



Flow rate (l/min)



Discharge range (m)



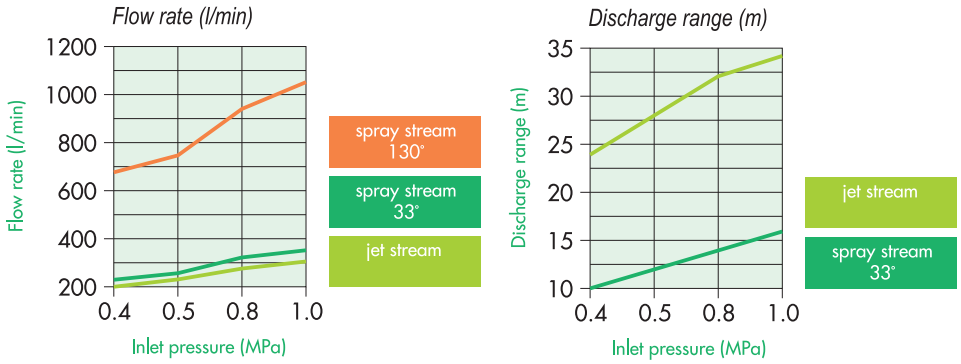
TAJFUN - PROFI C NOZZLE

Fire nozzle Tajfun – Profi C consists of the body, a horse-shoe on-off lever, a ball valve, a revolving head of Al alloy, and a rubber pistol grip. Using the revolving head you can change smoothly the pattern from a full jet to spray or even a fog screen and to shut off the nozzle. Adjusting the screen to its maximum position has a flushing function. The nozzle outlet is fitted with a rotary flow breaker. The swivel inlet flange is fitted with a C 52 rigid pressure coupling to CSN 38 9427. All the materials used were selected in view of exceptional stress to which the nozzle may be exposed during a fire action.
This nozzle is designed for water using full jet and spray stream, especially for extinguishing dusty and easily swirling substances (e.g. coal, flour, etc.). In particular, the Tajfun - Profi C will find its use in coal management facilities in the power industry, coal boiler rooms and farming facilities and for forest fires. When extinguishing apartment fires, we recommend using the pattern of dispersed fog for a maximum extinguishing effect with minimum consumption of water in order to minimize the damage resulting from the action. The advantage for the fire-fighters is the possibility of closing and opening the nozzle anytime with the stream adjusted.

Weight:	2.68 kg
Working pressure:	1.6 MPa
Length:	300/320 mm (min/max)
Width:	120 mm
Height:	276 mm

Catalogue No.: **vv 155**





HEAVY-FOAM INDUCING ADAPTOR FOR TAJFUN - PROFI C NOZZLE

Foam inducing adaptor for the Tajfun- Profi C 52 nozzle is made up of a 150 mm diameter stainless steel body with a grid inside and a holder to fix it to the revolving nozzle head. The adaptor is 405 mm long and has a diameter of 190 mm. The weight of the adaptor is 1.7 kg.



Catalogue No.: **vv 156**

TAJFUN NOZZLE - PROFI D, PROFI D/C

Fire nozzle Tajfun – Profi D and Tajfun – Profi D/C consists of its body, a horse-shoe on-off lever, a ball valve, a revolving rubber-coated head of Al alloy, a swivel inlet flange and a rubber pistol grip.
The lever is used to close or open the nozzle. Using the revolving head you can change smoothly the pattern from full jet to spray or even to a fog screen and to shut off the nozzle. Adjusting the screen to its maximum position has a flushing function. The nozzle outlet is fitted with a rotary flow breaker. The swivel inlet flange is fitted with a Storz C52 rigid pressure coupling to ČSN 38 9427 for Tajfun Profi D/C or Storz D 25 rigid pressure coupling to ČSN 38 9427 for Tajfun Profi D.
All the materials used were selected and their surface treated in view of exceptional stress to which the nozzle may be exposed during a fire-fighting action.
This nozzle is designed for water using full jet and spray stream, especially for extinguishing dusty and easily swirling substances (e.g. coal, flour, etc.). Tajfun-Profi D and Tajfun-Profi D/C will find its use in apartment fires, coal management facilities, in the power industry, coal boiler rooms, farming facilities and for forest fires. When extinguishing apartment fires, we recommend the pattern of dispersed fog for a maximum extinguishing effect with minimum consumption of water in order to minimize the damage resulting from the action. The advantage for the fire-fighters is the possibility of closing and opening the nozzle anytime while keeping the stream pre-set.



Tajfun Profi D

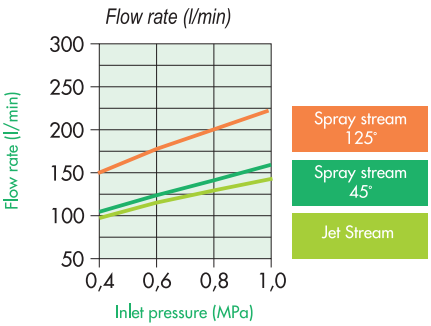
Weight: 1,5 kg with D25 coupling
Working pressure: 1,6 MPa
Length: 283/300 mm (min/max)
Width: 98 mm
Height: 257 mm

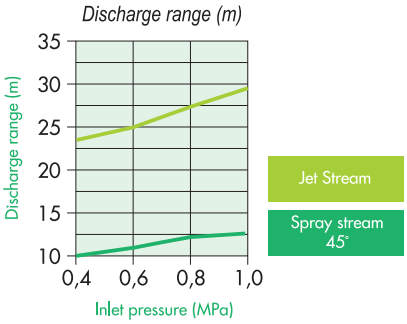
Catalogue No.: **vv 192**

Tajfun Profi D/C

Weight: 1,7 kg
Working pressure: 1,6 MPa
Length: 296/315 mm (min/max)
Width: 98 mm
Height: 257 mm

Catalogue No: **vv 195**





FIRE NOZZLE TAJFUN - TURBO B 75, TAJFUN - TURBO R B 75

The 75 R design nozzle is made up of the nozzle body with a supporting elbow with a handle and revolving head in aluminium alloy. The nozzle body is covered with a plastic sleeve and the head with a contoured rubber layer. The revolving head allows for smooth adjustment of the stream pattern from spray to jet stream and shut-off position. This is achieved by half a turn of the head. The inlet is fitted with a B 75 rigid Storz coupling to CSN 38 9427. The nozzle of the 75 design has no supporting elbow and the B 75 Storz coupling is fitted directly on the nozzle body. All materials have been chosen with respect to the extreme stress to which the nozzle may be exposed during a fire action.
The nozzle is designed for full jet and spray stream, in particular for extinguishing fire in areas with dust and easily swirling substances such as coal, flour, etc. It will find its use in coal management facilities in power industry, coal boiler rooms, silos, joiner´s shops, farming facilities and for forest fires. When used for apartment fires, we recommend using dispersed fog for a maximum extinguishing effect with minimum consumption of water in order to minimize damage resulting from the action.

Tajfun - Turbo B 75

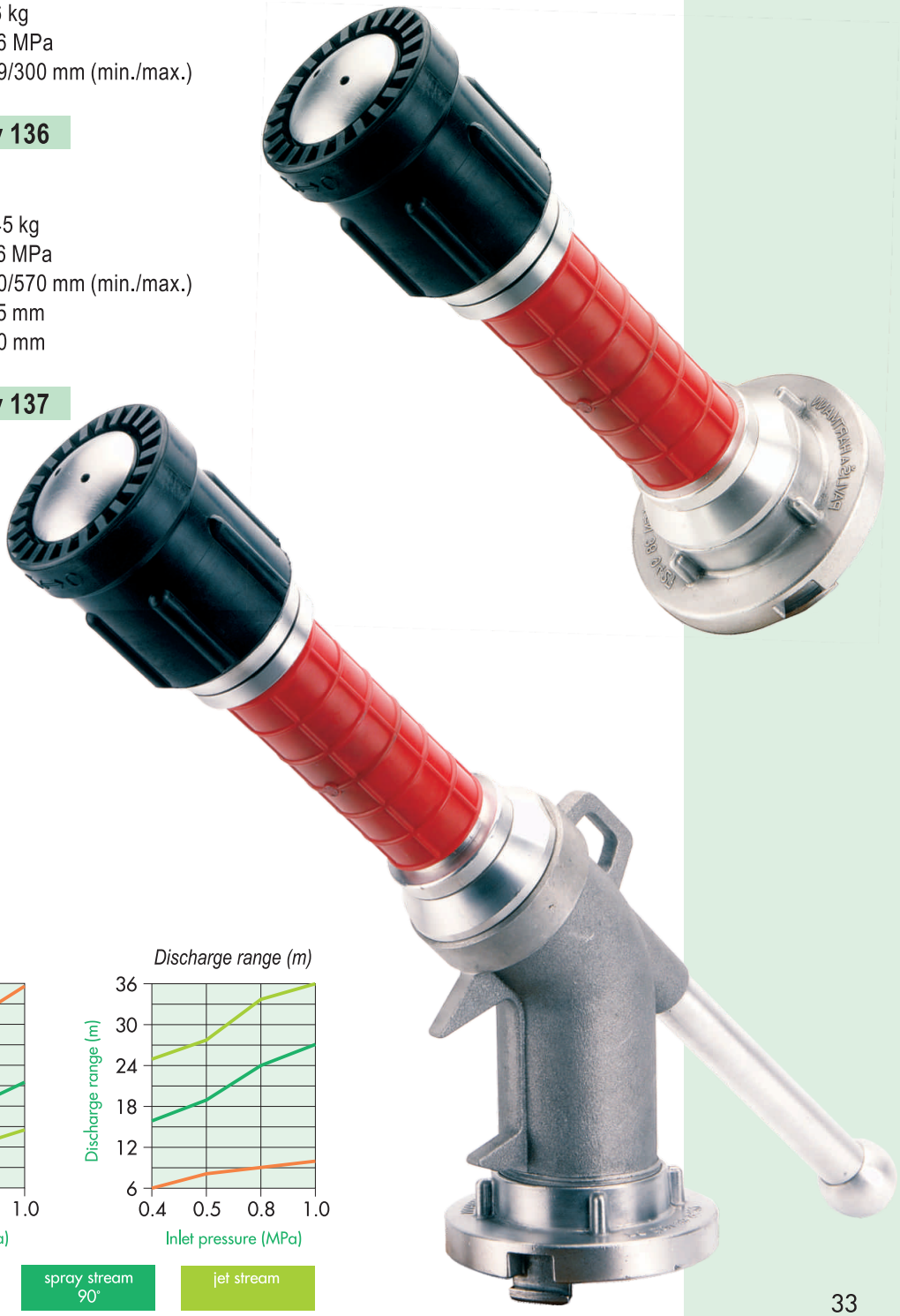
Weight:	1.6 kg
Working pressure:	1.6 MPa
Length:	219/300 mm (min./max.)

Catalogue No.: **vv 136**

Tajfun - Turbo R B 75

Weight:	2.45 kg
Working pressure:	1.6 MPa
Length:	560/570 mm (min./max.)
Width:	125 mm
Height:	210 mm

Catalogue No.: **vv 137**



PH ATOMIC “Attack”

The PH ATOMIC – Water Mist Fire Suppression Lance “Attack” consists of a stainless-steel nozzle body, a spike with 16x1.9mm holes on each side around the perimeter, a ball valve and an inlet part fitted with Storz D25 Brass coupling for a pressure of 40 bar.
The ball valve can be used to close or open the mist nozzle. This PH ATOMIC mist lance is designed for spraying water by direct spray of mist.

Always use protective gloves to operate the PH ATOMIC mist lance.

When using the PH ATOMIC mist lance in enclosed spaces, it is sufficient to create a hole in the door, window, roof, etc., and fight the fire with water mist without the need for firefighter entry. This is a step forward in firefighter Health & Safety, preventing also access of air to the fire. With the use 70 l of water per minute, the mist completely evaporates minimising secondary damage to property.

The PH ATOMIC mist lance should not be used to create holes in hard materials (brick walls, concrete, stone, wood, etc.). In these materials, it is absolutely necessary to first make a hole of the required diameter (e.g. by drilling or using a hammer) for the subsequent use of the fog spike.

Available in three length sizes, 55 cm, 100 cm and 150 cm.

Length:	55 cm	100 cm	150 cm
Weight:	1,5 kg	2,1 kg	2,6 kg
Material:	Stainless steel		
Height:	21 cm		
Width:	10 cm		
Max. pressure:	40 bar		

PH ATOMIC “Attack” Length 55 cm	
Cat.No:	**vv 371**
PH ATOMIC “Attack” Length 100 cm	
Cat.No:	**vv 371/100**
PH ATOMIC “Attack” Length 150 cm	
Cat.No:	**vv 371/150**



PH ATOMIC “Defensive”

The PH ATOMIC – Water Mist Fire Suppression Lance “Defensive” consists of a stainless-steel nozzle body, a spike with 12x1.6mm holes on each side around the perimeter, a ball valve and an inlet part fitted with Storz D25 Brass coupling for the pressure of 40 bar.
The ball valve can be used to close or open the mist nozzle. This PH ATOMIC mist lance is designed for spraying water by direct spray of mist.

Always use protective gloves to operate the PH ATOMIC mist lance.

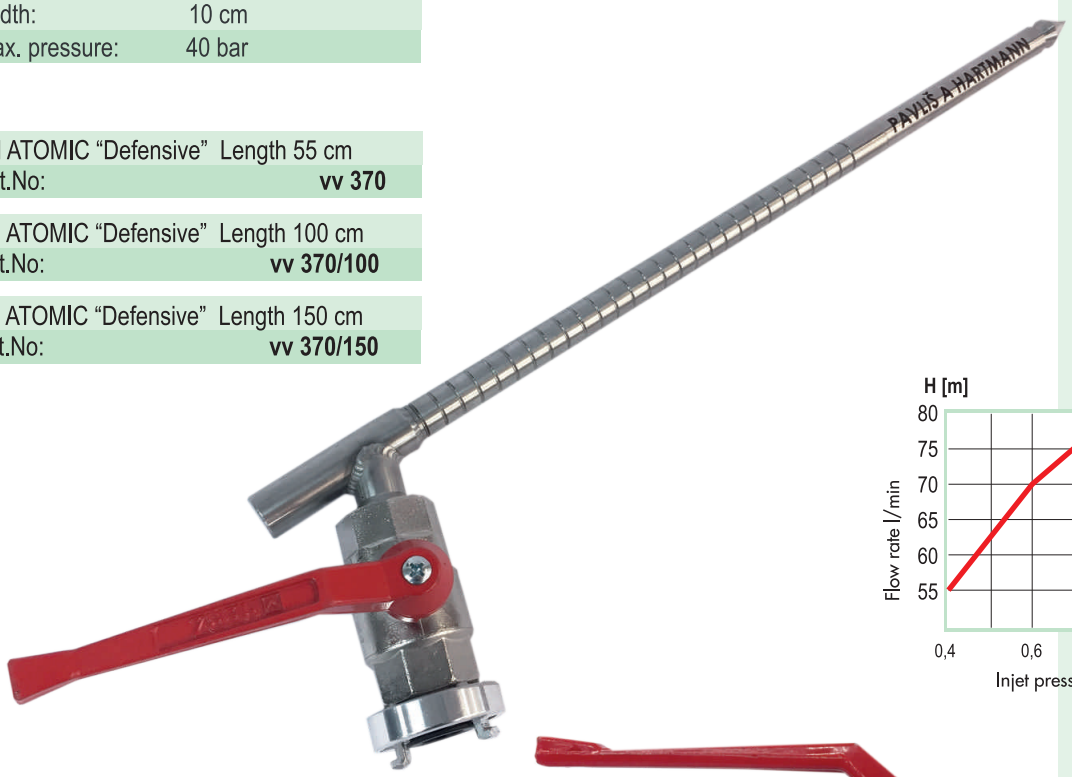
When using the PH ATOMIC mist lance in enclosed spaces, it is sufficient to create a hole in the door, window, roof, etc., and fight the fire with water mist without the need for firefighter entry. This is a step forward in firefighter Health & Safety, preventing also access of air to the fire. With the use 70 l of water per minute, the mist completely evaporates minimising secondary damage to property.

The PH ATOMIC mist lance should not be used to create holes in hard materials (brick walls, concrete, stone, wood, etc.). In these materials, it is absolutely necessary to first make a hole of the required diameter (e.g. by drilling or using a hammer) for the subsequent use of the mist nozzle.

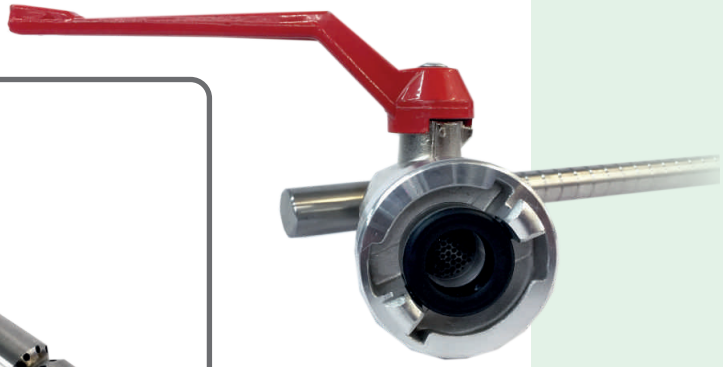
Available in three length sizes, 55 cm, 100 cm and 150 cm.

Length:	55 cm	100 cm	150 cm
Weight:	1,5 kg	2,1 kg	2,6 kg
Material:	Stainless steel		
Height:	21 cm		
Width:	10 cm		
Max. pressure:	40 bar		

PH ATOMIC “Defensive” Length 55 cm	
Cat.No:	**vv 370**
PH ATOMIC “Defensive” Length 100 cm	
Cat.No:	**vv 370/100**
PH ATOMIC “Defensive” Length 150 cm	
Cat.No:	**vv 370/150**







DISTRIBUTOR WITH BALL VALVE B- CBC

The distributor is used for division of a water stream of 75 into two streams of 52 and one of 75. The outlet flanges are equipped with ball valves providing the possibility of closing and regulating the individual streams.

Weight:	6.38 kg
Working pressure:	1.6 MPa
Height:	260 mm
Width:	360 mm
Depth:	340 mm
Outlets:	2 x C 52
	1 x B 75
Material:	Light metals alloy
Couplings C 52, B 75:	Al alloy

Cat. No.: **vv 120**



Loss of pressure

Direction of flow	Loss of pressure		Loss coefficient ζ (maximum value)
	Q (L/min)	Δ p (bar)	
75 - 52	200	0.06	2.5
75 - 75	800	0.20	

FIRE COMPETITION DISTRIBUTOR PH-SPORT

Pavliš and Hartmann has developed the lightest fire competition distributor on the Czech market. It is designed for fire competition, but also for a common fire-fighting action.
It is used to divide a 75-mm water line into one 75-mm and two 52-mm streams. The outputs are fitted with ball valves to shut off or control each stream. The light-weight steel levers are easy to handle while also contributing to lower weight of the equipment. The angles of the C outlets have been made lower to enable better unwinding of hoses during a fire action.

Weight:	5.05 kg
Working pressure:	1.6 MPa
Height:	205 mm
Width:	360 mm
Depth:	340 mm
Output:	2 x C 52
	1 x B 75
Material:	Ligth metals alloy
Couplings C 52, B 75:	Al alloy

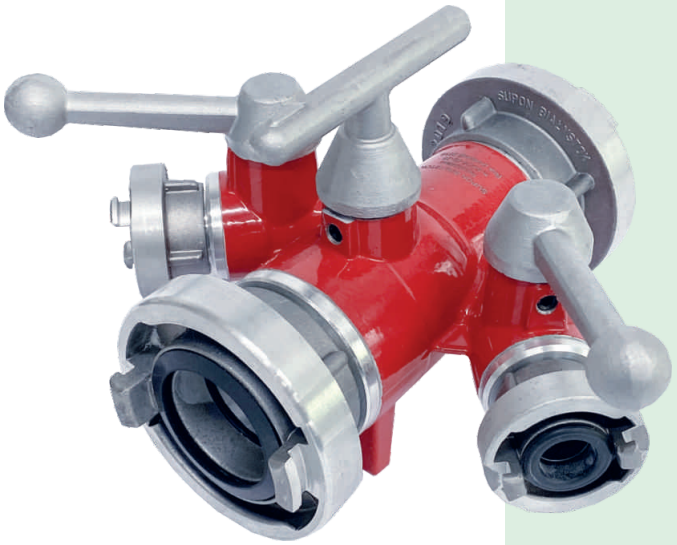
Cat. No.: **vv 260**



DISTRIBUTOR C-DCD

Weight:	2,34 kg
Working pressure	1.6 MPa
Height:	160 mm
Width:	260 mm
Length:	225 mm
Output:	2x D 25
	1x C 52
Material:	Al alloy

Cat. No.: **vpo 064**



DISTRIBUTOR PH JUNIOR C-DD

A very light-weight gated wye, designed mainly for kids fire sport, but also for normal splitting of water line C52 into two streams of D25. The outlet ports are fitted with ball valves to close and regulate either of the streams.

Weight:	2.13 kg
Max. working pressure:	1,6 MPa
Height:	155 mm
Width:	270 mm
Length:	220 mm
Inlet:	1x coupling C52
Outlet:	2x coupling D25
Material:	Al alloy

Cat. No.: **vv 461**



FIRE SIAMESE B75 - FIRE SIAMESE A110/B75

These collectibles are used to turn multiple flows into a single flow.

Fire Siamese B75

Weight:	2.6 kg
Working pressure:	1.6 MPa
Test pressure:	2.4 Mpa

Cat. No.: **vv 488**

Fire Siamese A110/B75

Weight:	2.7 kg
Working pressure:	1.6 MPa
Test pressure:	2.4 Mpa

Cat. No.: **vv 487**



DN 80 and DN 100 HYDRANT EXTENSION WITH SCREW-DOWN VALVES

A hydrant standpipe is used to draw water from the public supply network via underground hydrants. The outlet nozzles are equipped with screw-down valves, with the possibility of opening or closing the water flow.

DN 80

Weight:	6,5 kg
Working pressure:	1,6 MPa
Width:	1030 mm
Height:	340 mm
Material:	Body - light metals alloy Couplings - Al alloy

Cat. No.: **vpo 019**

DN 100

Weight:	9,4 kg
Working pressure:	1,6 MPa
Width:	1025/1075 mm
Height:	330 mm
Material:	Body - light metals alloy Couplings - Al alloy

Cat. No.: **vpo 017**



HYDRANT EXTENSION WITH A BALL VALVE

Hydrant extension is used to connect fire hoses to the underground water piping. By turning to the right (clockwise) the extension connects to the underground hydrant ČSN 13 6610.The outlet sockets are equipped with ball valves, providing the possibility to close the water stream.

Weight:	8.5 kg
Working pressure:	1.6 MPa
Height:	915 mm
Width:	410 mm
Depth:	250 mm
Suction pipe:	diam. 72 x 4 mm
Length of pipe:	650 mm
Material:	body - light metals alloy pipe - zinc-coated steel
Copulings B 75:	Al alloy

Cat. No.: **vv 135**



STORZ RIGID COUPLING

D 25 Al
Weight - 0,06 kg
Female thread - G 1”
Working pressure - 1,6 MPa
Cat. No.: **met 026**



D 25 polypropylene
Weight - 0,03 kg
Female thread - G 1”
Working pressure - 1,6 MPa
Cat. No.: **vv 127**



C 52 Al
Weight - 0,23 kg
Female thread - G 2”
Working pressure - 1,6 MPa
Cat. No.: **vv 119**



C 52 Ms
Weight - 0,76 kg
Female thread - G 2”
Working pressure - 2,5 MPa
Cat. No.: **vpo 065**



Fire coupling forged

C52 Al	**vog009**
B75 Al	**vog004**

C52 male thread
Weight - 0,23 kg
Male thread - G 2”
Working pressure - 1,6 MPa
Cat. No.: **vpo 051**



B 75 Al
Weight - 0,37 kg
Female thread - G 2,5”
Working pressure - 1,6 MPa
Cat. No.: **vv 152**



B 75 thread 3”
Weight - 0,4 kg
Female thread - G 3”
Working pressure - 1,6 MPa
Cat. No.: **vpo 052**



B 75 thread 2,5”
Weight - 0,4 kg
Male thread - G 2,5”
Working pressure - 1,6 MPa
Cat. No.: **vpo 058**



RIGID FIRE COUPLING) A 110
Weight - 0,933 kg
Female thread - G 4”
Working pressure - 1,6 MPa
Cat. No.: **kar 003**



STORZ CAP

B 75 Al
Weight - 0.43 kg
Working pressure - 1.6 MPa
Cat. No.: **vv 153**



D 25 polypropylene
Working - 0.045 kg
Working pressure - 1.6 MPa
Cat. No.: **vv 130**



D25 Al
Working - 0,09 kg
Working pressure - 1,6 MPa
Cat. No.: **pop 012**



C 52 Al
Weight - 0.26 kg
Working pressure - 1.6 MPa
Cat. No.: **vv 121**



A110 Al
Weight - 1,097 kg
Working pressure - 1,6 MPa
Cat. No.: **vpo 008**



STORZ FIRE HOSE COUPLING

D 25 Al
Weight - 0,15 kg
Working pressure - 1,6 MPa
Cat. No.: **met 029**



D 25 polypropylene
Weight - 0,07 kg
Working pressure - 1,6 MPa
Cat. No.: **vv 126**



C 52 Al
Weight - 0,56 kg
Working pressure - 1,6 MPa
Cat. No.: **vv 129**



B 75 Al
Weight - 0,95 kg
Working pressure - 1,6 MPa
Cat. No.: **vv 151**



C 42 Al
Weight - 0,59 kg
Working pressure - 1,6 MPa
Cat. No.: **vv 133**



B 65 Al
Weight - 0,98 kg
Working pressure - 1,6 MPa
Cat. No.: **vv 134**



A 110
Weight - 2,75 kg
Working pressure - 1,6 MPa
Cat. No.: **vpo 001**



C38 Al
Weight - 548 g
Working pressure - 1,6 MPa
Cat. No.: **vv 178**



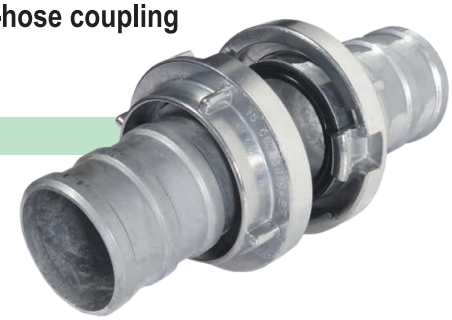
Forged fire hose coupling

Coupling C42 Al	**vog010**
Coupling C52 Al	**vog002**
Coupling B65 Al	**vog011**
Coupling B75 Al	**vog001**

SUCTION HOSE COUPLING

Storz B 75 Al - suction-hose coupling
Weight - 1.3 kg
Working pressure - 1.6 MPa

Cat. No.: **vv 154**



ADAPTOR 5/4" /1"



Serves for reduction from the diameter of 5/4“ to 1“.

Weight – 0.038 kg, material – polypropylene

Cat. No.: **mim 026**

ADAPTOR 1" /2"

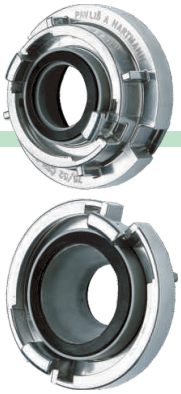


Serves for connection of the hose or the pipe system C52 and D25 using the appropriate fire couplings.

Weight – 0.038 kg, material – polypropylene

Cat. No.: **mim 031**

STORZ ADAPTOR B/C



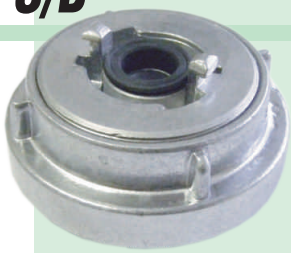
Weight - 0.43 kg
Working pressure - 1.6 Mpa

Cat. No.: **vv 110**

STORZ ADAPTOR C/D

Weight - 0.43 kg
Working pressure - 1.6 Mpa

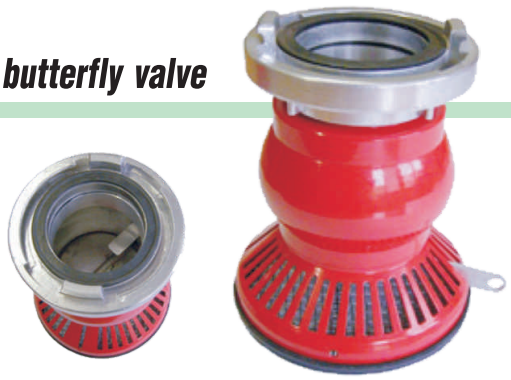
Cat. No.: **kar 030**



PH - SPORT SUCTION STRAINER *with a butterfly valve*

Weight- 2,75 kg, Height - 265 mm
Max diameter - 260 mm
Outlet - Storz A110

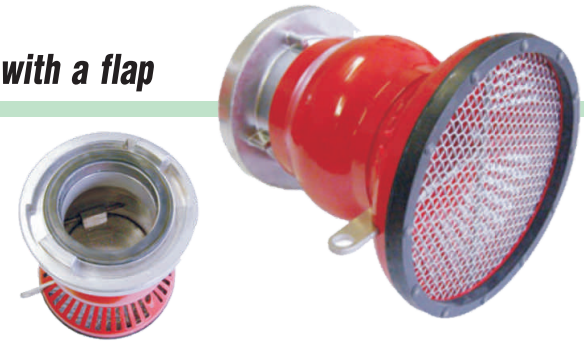
Cat. No.: **vv 245 S**



PH - SPORT SUCTION STRAINER *with a flap*

Weight- 2,75 kg, Height - 265 mm
Max diameter - 260 mm
Outlet - Storz A110

Cat. No.: **vv 244 S**



SUCTION STRAINER PH B75

Suction strainer PH B75 with a non-return valve
Weight: 2,2 kg, Height: 225 mm
Max. diameter: 183 mm
Outlet - storz B75

Cat. No.: **vv 405**



SUCTION STRAINER *with a flap coupling A110*

Weight - 4.5 kg, Height - 320 mm
max. diameter - 260 mm
Outlet - Storz A110

Cat. No.: **vv 161/1**



SUCTION STRAINER B 75





Weight - 1.718 kg, height - 170 mm
max. diameter - 185 mm
Outlet - Storz B75

Cat. No.: **vv 144**

SUCTION STRAINER PH C 52





Suction strainer is with a non-return valve
Weight: 0,9 kg, Height: 160 mm, Max. diameter: 123 mm
Width across flap control: 126 mm
Outlet - Storz C52

Cat. No.: **vv 404**

SUCTION STRAINER B 75 SPECIAL





Weight - 1.2 kg, height - 148 mm
max. diameter - 175 mm
Outlet - Storz B 75
material: Fe+Zn

Cat. No.: **vv 288**

SUCTION STRAINER A 110 SPECIAL





Weight - 1.9 kg, height - 160 mm
max. diameter - 180 mm
Outlet - Storz A110
material: Fe+Zn

Cat. No.: **vv 401**

FLOATING SUCTION STRAINER - STORZ COUPLING A110

The floating suction strainer A110 is designed to pump water from natural resources - lakes, rivers. Its main advantage is pumping water several centimeters below the water surface, this avoids clogging of the strainer and pumps by polluted surface water, or as in the case with traditional strainers, sludge from the bottom of the water source.

Weight: 5,8 kg
Length: 555 mm
Width: 250 mm
Height: 510 mm

Cat. No.: **vv 411**



FLOATING SUCTION STRAINER - STORZ COUPLING B 75

The floating suction strainer B75 is designed to pump water from natural resources - lakes, rivers. Its main advantage is pumping water several centimeters below the water surface, this avoids clogging of the strainer and pumps by polluted surface water, or as in the case with traditional strainers, sludge from the bottom of the water source.

Weight: 5,1 kg
Length: 555 mm
Width: 250 mm
Height: 510 mm

Cat. No.: **vv 413**



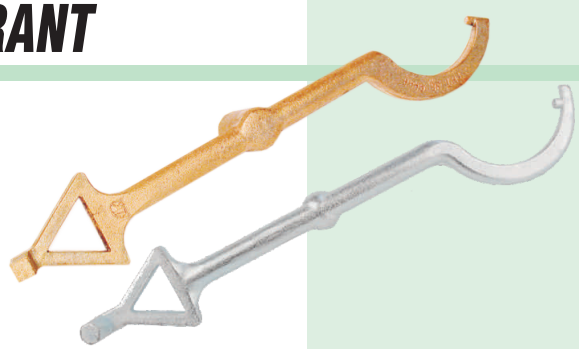
WRENCH FOR ABOVE GROUND HYDRANT

Weight: 1.21 kg (gold colour)

Cat. No.: **kar 096**

Weight: 1.28 kg (silver colour)

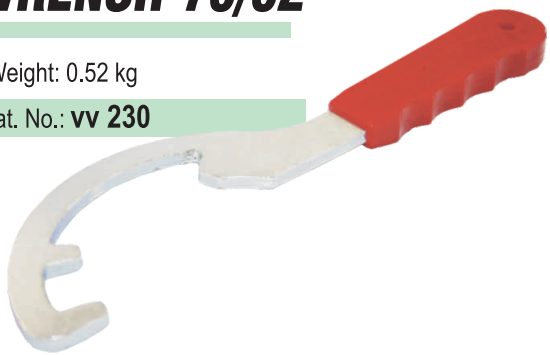
Cat. No.: **Nem 001**



WRENCH 75/52

Weight: 0.52 kg

Cat. No.: **vv 230**



WRENCH 125/75

Weight: 0.74 kg

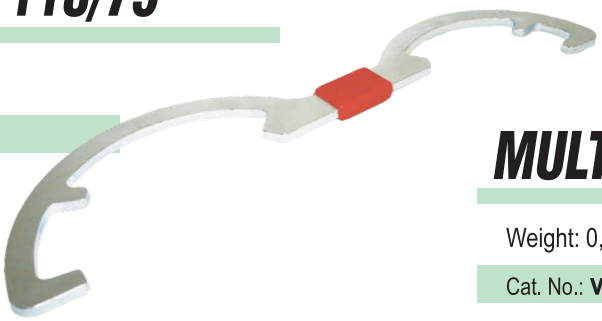
Cat. No.: **kar 077**



WRENCH 110/75

Weight: 0.74 kg

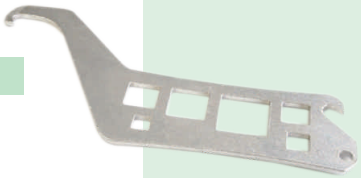
Cat. No.: **vv 233**



MULTI-PURPOSE WRENCH

Weight: 0,122 kg

Cat. No.: **vv 234**



WRENCH FOR UNDERGROUND HYDRANT

Weight: 4.17 kg

Cat. No.: **wm 003**



VALVE ROPE 6x12

Rope designed to open the suction strainer flap. Made of technical polyester fibre with a snap-hook.

Rope diameter: 6 mm
Rope length: 12 m

Cat. No.: **vv 457**



VALVE ROPE 8x25

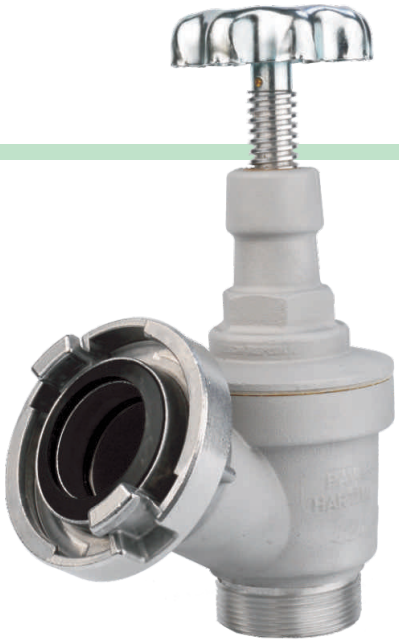
Rope designed to open the suction strainer flap. Made of technical polyester fibre with a snap-hook.

Rope diameter: 8 mm
Rope length: 25 m

Cat. No.: **vv 456**



HYDRANT VALVE AL C52



Designed as the intake valve of the hydrant system with the C 52 lay-flat hose.

Weight:	1.15 kg
Working pressure:	1.6 MPa
Material:	Al alloy
C 52 Copuling:	Al alloy
Inlet	2"
Outlet	Storz C52

Cat. No.: **with coupling - vv 107**

HYDRANT VALVE Ms C52



Intended as the intake valve of the hydrant system with the C 52 lay-flat hose.
Its design allows the use of the valve in very demanding environments.

PN 16 Working pressure 1.6 MPa

Weight:	Without coupling	1.51 kg - Cat. No.: **has 100**
	Storz Al alloy coupling	1.73 kg - Cat. No.: **vv 211**
	Storz Ms (brass) coupling	2.28 kg - Cat. No.: **vv 210**

PN 25 Working pressure 2.5 MPa

Weight:	Without coupling	1.65 kg - Cat. No.: **vv 114**
	Storz Al alloy coupling	1.87 kg - Cat. No.: **vv 103**
	Storz Ms (brass) couplin	2.42 kg - Cat. No.: **vv 104**

Material: Ms 80 (brass)

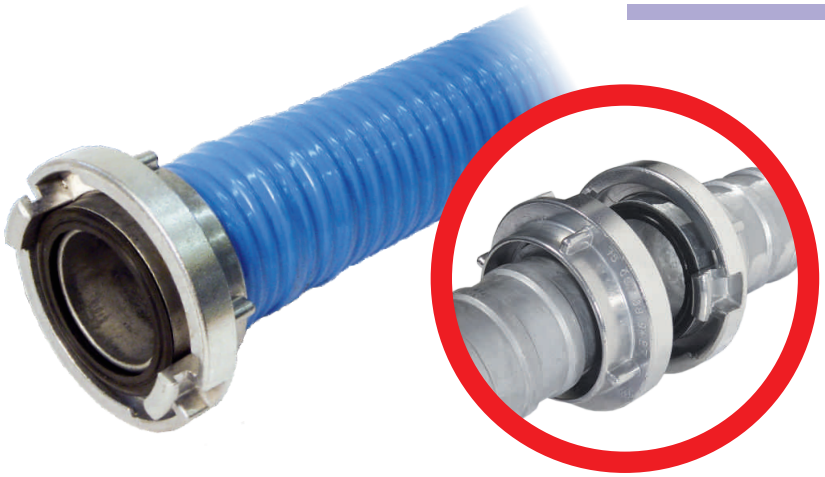
HYDRANT VALVE Ms D25

Weight:	without coupling	0,34 kg - Cat. No.: **insm 033**
	Storz Al alloy coupling	0,40 kg - Cat. No.: **vv 106**
	Storz Composite coupling	0,37 kg - Cat. No.: **vv 105**

Working pressure: 2 MPa
Material: Ms



SUCTION HOSE PH ASE 75 - BLUE



PVC hose made of super-elastic mixture.
Reinforced with a shock-proof rigid PVC spiral
provides high elasticity and durability of these hoses.
Temperature range: from -35°C to +50°C.
Coupling - Storz B75

Length: 2500 mm - Cat. No.: **vv 216**

Length: 6000 mm - Cat. No.: **vv 215**

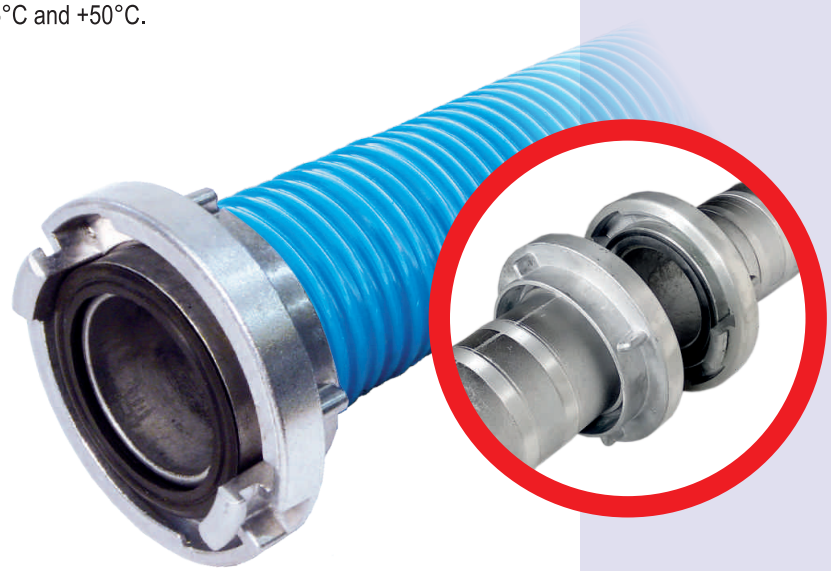
SUCTION HOSE PH PH 110 - blue with Storz A110 coupling

This hose can be used at temperatures between -35°C and +50°C.

Inner Ø:	105 mm
Weight:	2800 g/m
Wall Thickness:	6,8 mm
Minimum bend radius:	410 mm
Burst pressure:	9 kg/cm²
Suction Pressure:	8,5 m/H2O

Length: 1600 mm - Cat. No.: **vv 296-S**

Length: 2500 mm - Cat. No.: **vv 149-S**



PH - ACTION B75, C52 FIRE GOLD

Insulated fire hose designed especially for professional and volunteer fire brigades, both for sport and action purposes. It can be used at temperatures from -30°C to +70°C. It is marked by three colour strips: blue-red-blue. The outside colour of the polyester fibre is luminescent yellow; the inside smooth EPDM-rubber liner is black.
With its luminescent colour, the hose is well visible even at low visibility.
The design of the hose results in a minimum pressure loss in water transport.

Trade name	Includes Storz	Catalogue No.
PH-ACTION-C52 FIRE GOLD	Al coupling	**hvv 091**
PH-ACTION-C52 FIRE GOLD	no coupling	**hvv 090**
PH-ACTION-B75 FIRE GOLD	Al coupling	**hvv093**
PH-ACTION-B75 FIRE GOLD	no coupling	**hvv092**



Trade name	Inner diameter (mm)	Minimum burst pressure (MPa)	Test pressure (MPa)	Working pressure (MPa)	Weight without coupling (g/m)	Weight with coupling (kg/20m)	Available length (m)
PH-ACTION-C52 FIRE GOLD	52	4.9	2.4	1.6	250	5.61	max 50
PH-ACTION-B75 FIRE GOLD	75	4.9	2.4	1.6	390	8.8	max 50

PH - D25 HIGH-PRESSURE

The most durable hose on the market is based on the PH Action D25 hose, where, by reinforcing the warp by knurling, we have ensured that the working pressure can be increased up to 40 bar and at the same time the wear resistance is significantly increased. The destructive pressure of this hose exceeds 80 bars. The outside layer of the high-strength PES yarn used is iridescent, the inner insert is black EPDM rubber. The hose is standardly equipped with brass couplings for a pressure of 40 bar and have a length of 20 m.

Trade name	Comes with Storz	Cat. No.
PH-D25 high-pressure	with brass coupling	**hvv 177**
PH-D25 high-pressure	without coupling	**hvv 175**



Trade name	Inner diameter (mm)	Minimum burst pressure (MPa)	Test pressure (MPa)	Working pressure (MPa)	Weight with coupling (kg/20m)
PH-D25 high-pressure	25	8	6	4	3,2

PH - ACTION D25, C42, C52, B65, B75

Insulated fire hose designed especially for professional and volunteer fire brigades. It can be used at temperatures from -30°C to +70°C. It is marked by three colour strips: blue-red-blue. The outside colour of the polyester fibre is white; the inside rubber liner is black. The hose is certified to ČSN 80 8711.



Trade name of the hose	Inner diameter (mm)	Minimum burst pressure (MPa)	Test pressure (MPa)	Working pressure (MPa)	Weight without coupling (g/m)	Weight with coupling (kg/20 m)	Available length (m)
PH - ACTION - D	D - 25	4.9	2.4	1.6	120	2.7	max 50
PH - ACTION - C	C - 52	4.9	2.4	1.6	245	5.51	max 50
PH - ACTION - B	B - 75	4.9	2.4	1.6	385	8.73	max 50
PH - C 38	B - 38	4.5	2.25	1.6	165	3.91	max 50
PH - C42	C - 42	4.5	2.25	1.5	235	5.31	max 50
PH - B 65	B - 65	4.5	2.25	1.5	375	8.5	max 50

Trade name	*Includes Storz*	*Cat. No.*
PH - ACTION - D	plastic coupling	**hvv 010**
PH - ACTION - D	Al coupling	**hvv 009**
PH - ACTION - D	no coupling	**hvv 006**
PH - ACTION - C	Al coupling	**hvv 008**
PH - ACTION - C	no coupling	**hvv 005**
PH - ACTION - B	Al coupling	**hvv 027**
PH - ACTION - B	no coupling	**hvv 026**

Trade name	*Includes Storz*	*Cat. No.*
PH - C 38	Al coupling	**hvv 074**
PH - C 38	no coupling	**hvv 073**
PH - C 42	Al coupling	**hvv 014**
PH - C 42	no coupling	**hvv 021**
PH - B 65	Al coupling	**hvv 033**
PH - B 65	no coupling	**hvv 035**

This hose is designed especially for fire sport.

PH - ACTION C42 AND B65 FIRE ORANGE

This insulated fire hose is designed especially for professional and volunteer fire brigades. It can be used at temperatures from -30°C to +70°C. Its marking consists of three colour strips in the order blue-red-blue. Outside colour of the polyester fibre is orange, the inner rubber liner is of black colour. The hose is certified to pr. ČSN 808711.



Trade name	*Inner diameter (mm)*	*Minimum burst pressure (MPa)*	*Test pressure (MPa)*	*Working pressure (MPa)*	*Weight with coupling (kg/20m)*	*Weight without coupling (g/m)*
PH-ACTION C42 Fire Orange	42	4,9	2,4	1,6	4,8	190
PH-ACTION B65 Fire Orange	65	4,9	2,4	1,6	8,1	350

Trade name	*Includes Storz*	*Cat. No.*
PH – ACTION C42 Fire Orange	without couplings	**hvv 098**
PH – ACTION C42 Fire Orange	with couplings	**hvv 099**
PH – ACTION C42 Fire Orange	with forged couplings	**hvv 099-K**
PH – ACTION B65 Fire Orange	without couplings	**hvv 104**
PH – ACTION B65 Fire Orange	with couplings	**hvv 105**
PH – ACTION B65 Fire Orange	with forged couplings	**hvv 105-K**

PH - HYDRANT D25



Insulated fire hose designed especially for fire hydrant cabinets. It can be used at temperatures from -30°C to + 70°C. The D-type hose is marked by two colour strips: red- blue. The outside colour of the polyester fibre is white, the inside rubber liner is black. The hose is certified to EN 1924-2.

Trade name of the hose	Inner diameter (mm)	Min. burst pressure (MPa)	Test pressure (MPa)	Working pressure (MPa)	Weight without coupling (g/m)	Weight with coupling (kg/20 m)	Available length (m)
PH - HYDRANT - D	D - 25	4.5	2.25	1.5	98	2.2	max 50

Trade name	*Includes Storz*	*Cat. No.*
PH - HYDRANT - D	plastic coupling	**hvv 038**
PH - HYDRANT - D	Al coupling	**hvv 039**
PH - HYDRANT - D	no coupling	**hvv 036**

PH - HYDRANT C52



Insulated fire hose designed especially for fire hydrant cabinets. It can be used at temperatures from -30°C to + 70°C.
It is marked by two colour strips: blue- red. The outside colour of the polyester fibre is white, the inside rubber liner is black. The hose is certified to CSN EN 14 540.

Trade name of hose	Inner diameter (mm)	Min. burst pressure (MPa)	Test pressure (MPa)	Working pressure (MPa)	Weight without coupling (g/m)	Weight with coupling (kg/20 m)	Available length (m)
PH - HYDRANT - C	C - 52	4.5	2.25	1.5	220	4.9	max 50

Trade name	*Includes Storz*	*Cat. No.*
PH - HYDRANT - C	Al coupling	**hvv 159**
PH - HYDRANT - C	no coupling	**hvv 004**

PH - STABIL D33, D25, D19



Insulated semi-rigid fire hose designed especially for fire hydrant cabinets. It can be used at temperatures from -30°C to +70°C. It is not marked by colour strips. The outside colour of the polyester fibre is white. A PES thread is woven into the fibre to keep the shape of the hose. The inside rubber liner is black. The hose is suitable for winding-up in the box of fire-fighting systems. The hose is certified to CSN EN 694.

Trade name of the hose	Inner diameter (mm)	Min. burst pressure (MPa)	Test prssure (MPa)	Working pressure (MPa)	Weight without coupling (g/m)	Weight with coupling (kg/20 m)	Available length (m)
PH - STABIL - D	19	4.2	2.4	1.2	135	—	max 50
PH - STABIL - D	25	4.2	2.4	1.2	155	—	max 50
PH - STABIL - D	33	4.2	2.4	1.2	210	—	max 50

PH - RESIST D25, C52, B75, A110, A150

Hoses specially designed for fire brigades, technical support services, industry, shipping, refineries. 100% synthetic fabric made from high tenacity yarns. Circularly woven, in rubber coating embedded, providing optimal protection for the pressure carrier. Oil, petrol and chemical resistant. Aging, ozone and UV resistant. Very low pressure drop. Temperature resistant from -40 °C to +100 °C. Color of the hose is red. According to DIN 14811.



	Includes Storz	*Cat. No.*
PH-RESIST D25	without coupling	**res 005**
PH-RESIST D25	with Al coupling 20 m	**hvv 131**
PH-RESIST C52	without coupling	**res 001**
PH-RESIST C52	with Al coupling 20 m	**hvv 120**
PH-RESIST B75	without coupling	**res 002**
PH-RESIST B75	with Al coupling 20 m	**hvv 121**
PH-RESIST A110	without coupling	**res 011**
PH-RESIST A110	with Al coupling 20 m	**hvv 132**
PH-RESIST A150	without coupling	**res 012**

	Inner diameter (mm)	*Minimum burst pressure (MPa)*	*Minimum working pressure (Mpa)*	*Weight without coupling (g/m)*	*Weight - with coupling (kg/20m)*	*Weight - without coupling (kg/20m)*
PH - RESIST D25	25	7,5	2	225	4,6	4,4
PH - RESIST C52	52	6	2	385	8,6	8
PH - RESIST B75	75	6	2	680	13,9	12,7
PH - RESIST A110	110	4,5	1,6	1140	26	22,8
PH - RESIST A150	150	3,8	1,6	1700	-	34

PH - ACTION - A110 / PH - TRANSPORT A152, A200

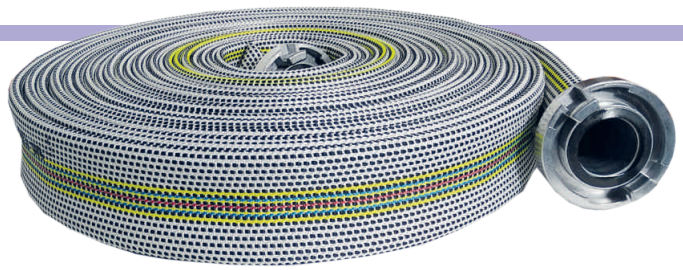
Insulated fire hose designed for professional and voluntary fire brigades and for transport of water with admixture in industry, agriculture, etc. It can be used at temperatures from -30°C to + 70°C. It is marked by three colour stripes: blue-red-blue. The outside colour of the polyester yarn is white, the inside rubber liner is black. The hose is certified to EN 1924-1.



Trade name of hose	Inner diameter (mm)	Min. burst pressure (MPa)	Test pressure (MPa)	Working pressure (MPa)	Weight without coupling (g/m)	Weight with coupling (kg/20 m)	Available length (m)
PH - ACTION	A - 110	3.6	2.4	1.6	590	—	max 50
PH - TRANSPORT A152	A -152	-	1,5	1	830	—	max 50
PH - TRANSPORT	A - 200	—	1.2	0.8	1200	—	max 50

Trade name	*Includes Storz*	*Cat. No.*
PH - TRANSPORT - A110	Al coupling	**hvv 064**
PH - TRANSPORT - A110	no coupling	**hvv 050**
PH - TRANSPORT - A152	Al coupling	**hvv 125**
PH - TRANSPORT - A152	no coupling	**hvv 124**

PH - PROLINE FIRE-HOSES



These PROLINE hoses are designed for interventions in forest and mountain terrain especially for use in areas where there is an increased risk of mechanical damage. By strengthening the braid, especially in the warp, and supplementing the anti-abrasion scuffing, there was a significant increase in the abrasion resistance. The PROLINE hose consists of three layers. The outside layer is a high-strength PES yarn, the inside liner is black EPDM rubber and the middle connecting layer is white.

	Innen Ø (mm)	Minimum burst pressure (MPa)	Test pressure (MPa)	Working pressure (MPa)	Weight without coupling (g/m)	Weight with couplings (kg/20 m)	Hose length (m)
PH - PROLINE D25	D - 25	8	6	1,6	160	3.45	20
PH - PROLINE C38	C - 38	6.3	2.4	1,6	282	6.1	20
PH - PROLINE C42	C - 42	6.4	2.4	1,6	300	6.7	20
PH - PROLINE C52	C - 52	6.4	2.4	1,6	366	7.9	20
PH - PROLINE B65	B - 65	5.6	2.4	1,6	498	11.1	20
PH - PROLINE B75	B - 75	5.16	2.4	1,6	583	12.6	20

	Includes Storz	*Cat. No.:*
PH - PROLINE - D25	without coupling	**hvv 199**
PH - PROLINE - D25	with Al coupling	**hvv 200**
PH - PROLINE - C38	without coupling	**hvv 201**
PH - PROLINE - C38	with Al coupling	**hvv 202**
PH - PROLINE - C42	without coupling	**hvv 203**
PH - PROLINE - C42	with Al coupling	**hvv 204**
PH - PROLINE - C42	with forged coupling	**hvv 205**

	Includes Storz	*Cat. No.:*
PH - PROLINE - C52	without coupling	**hvv 206**
PH - PROLINE - C52	with Al coupling	**hvv 207**
PH - PROLINE - C52	with forged coupling	**hvv 208**
PH - PROLINE - B65	without coupling	**hvv 209**
PH - PROLINE - B65	with Al coupling	**hvv 210**
PH - PROLINE - B65	with forged coupling	**hvv 211**
PH - PROLINE - B75	without coupling	**hvv 212**
PH - PROLINE - B75	with Al coupling	**hvv 213**
PH - PROLINE - B75	with forged coupling	**hvv 214**

PH - STABIL D25 - HIGH PRESSURE

This insulated dimensionally stable fire hose is especially designed for use in fire trucks / e.g: for winding into fire extinguishing systems. It can be used at temperatures from -30°C to +70°C. The outside layer is a high-strength PES yarn with an interwoven PET (Polyethylene terephthalate) fibre, which guarantees the solid shape of the hose. The PH - Stabil D25 - high pressure fire hose is also provided with a polyurethane treatment to improve abrasion resistance, the inside liner is black EPDM rubber.

This hose is certified according to ČSN EN 1947 classification B class 3

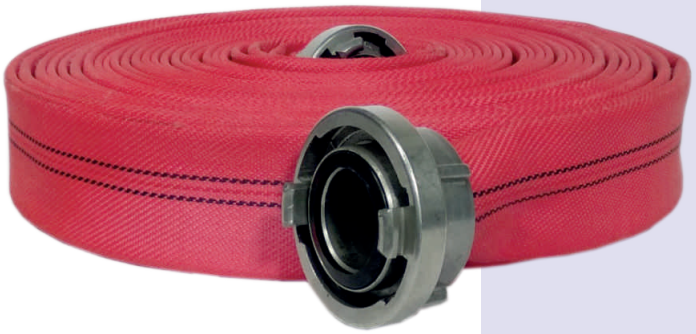
Inner hose (mm)	25
Min. burst pressure (MPa)	10
Test Pressure (Mpa)	6
Working Pressure (Mpa)	4
Hose weight without couplings (kg)	13.1
Hose weight with couplings (kg/60m)	13.7
Hose length	60
Cat. No. with couplings	**hvv 162**
Cat. No. without couplings	**hvv 161**



PH - EXTREME FIRE HOSE D25, C42, C52, B65 and B75

This insulated PH-Extreme fire hose can be used at temperatures from -30 ° C to + 70 ° C. and is primarily designed for professional and voluntary fire brigades.
The outside layer is a high-strength PES yarn with polyurethane treatment to increase abrasion resistance. The inside liner is black EPDM rubber. The PH-Extreme fire hose is for use in normal and demanding environments. This tzpe of hose is less absorbent and easier to clean.

	Includes Storz	Cat. No.
PH-EXTREME D25	without coupling	**hvv 228**
PH-EXTREME D25	with brass coupling	**hvv 229**
PH-EXTREME C42	without coupling	**hvv 220**
PH-EXTREME C42	with Al coupling	**hvv 221**
PH-EXTREME C52	without coupling	**hvv 222**
PH-EXTREME C52	with Al coupling	**hvv 223**
PH-EXTREME B65	without coupling	**hvv 224**
PH-EXTREME B65	with Al coupling	**hvv 225**
PH-EXTREME B75	without coupling	**hvv 226**
PH-EXTREME B75	with Al coupling	**hvv 227**



Trade name of hose	Inner diameter (mm)	Min.burst pressure (Mpa)	Working pressure (Mpa)	Weight without coupling (g/m)	Weight with coupling (kg/20 m)	Hose length (m)
PH-EXTREME D25	25	7	3	136	3.3	20
PH-EXTREME C42	42	6.4	2.4	250	5.4	20
PH-EXTREME C52	52	6.4	2.4	274	6.2	20
PH-EXTREME B65	65	5.6	2.4	368	8.1	20
PH-EXTREME B75	75	5.16	2.4	414	8.9	20

HOSE REEL 25/60

This hose reel is designed to be mounted on fire engines, but can be installed elsewhere. It can be fitted to the floor, wall and ceiling. The hose reel is a very effective means of fire fighting. It features D-25 semi-rigid hose coated with abrasion-resistant polyurethane-based layer. As standard, the hose is fitted with the Tajfun-Profi D nozzle which can smoothly change the stream pattern from full jet to spray or even to a fog screen, and to shut off the nozzle.
The nozzle can be equipped with a solid wetting agent cartridge to make effective use of the extinguishing agent when fighting car or flat fires, extinguishing dusty agents, etc.

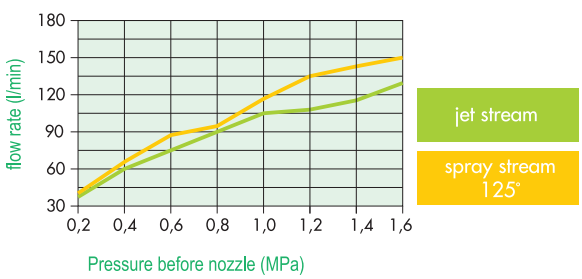


Discharge rate(l/min)

Dimensions (WxLxH)	525 x 690 x 585 mm
Weight:	27 kg
Hose:	D25 semi-rigid, 60 m long
Connecting hose:	D25 semi-rigid, 2 m long
Nozzle	Tajfun-Profi D
Max. working pressure:	1,6 MPa

Cat. No.: **nv 250**

Flow rate (l/min)



FIRE HOOK

Fire hook manufactured by Pavliš a Hartmann spol. s r.o. according to TS 1-2007 specification is designed for pulling objects out of the burning or flooded buildings, tearing down structures before their collapse, removing burning materials, pulling out ice floats, etc..

It is designed for work where there is no danger of flashover voltage.

The hook consists of a two-part aluminium handle with knurled sections for better grip. One part is topped with a forged hook in the form of one straight and one bent blade. The weight of a completed hook is 2.8 kg.



Weight:	2.8 kg
Total length:	4050 mm
Folded up length:	2150 mm
Material:	handle - Al alloy hook – forged steel
Cat. No.:	**vv 204**

Do not use as a crowbar!



Close-up of the connecting catch

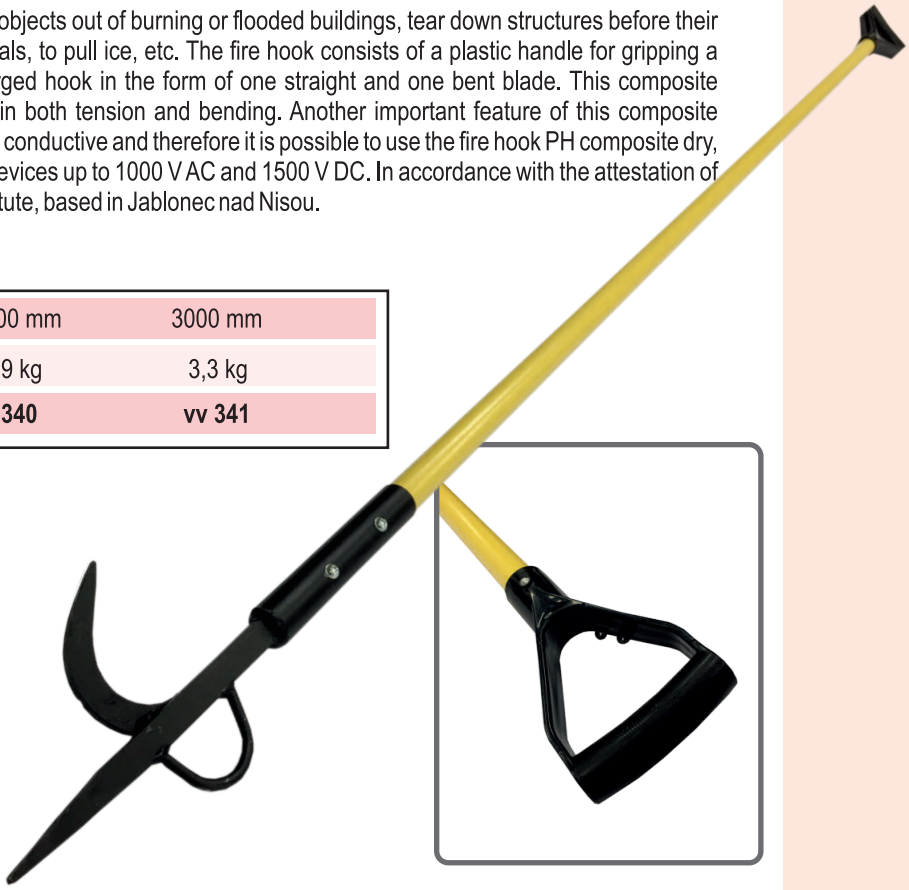


Hook close-up

FIRE HOOK PH COMPOSITE

This fire hook is designed to pull objects out of burning or flooded buildings, tear down structures before their collapse, remove burning materials, to pull ice, etc. The fire hook consists of a plastic handle for gripping a special composite bar with a forged hook in the form of one straight and one bent blade. This composite material provides high strength in both tension and bending. Another important feature of this composite material is that it is not electrically conductive and therefore it is possible to use the fire hook PH composite dry, in case of any interference with devices up to 1000 V AC and 1500 V DC. In accordance with the attestation of the (SZÚ) - Engineering Test Institute, based in Jablonec nad Nisou.

Length:	2500 mm	3000 mm
Weight:	2,9 kg	3,3 kg
Cat. No.:	**vv 340**	**vv 341**



PH LIQUIDATOR I

The PH-Liquidator 1, is a multipurpose rescue tool especially designed for fire/rescue personnel for accomplishing forcible entry into buildings, vehicles and other locked enclosures. The PH- liquidator 1 consists of a stainless shaft, which is equipped with non-slip grooves and two heat treated stainless steel working ends. One working end has a curved pike for prying a lock or latch and a duckbill with a smooth incline to force windows and doors. The other working end is provided with a forked prying tang for pulling bolts and heavy nails.

Length: 915 mm
Width: 160 mm
Height: 155 mm
Weight: 4,7 kg

Cat. No.: **vv 320**

Length: 762 mm
Width: 160 mm
Height: 155 mm
Weight: 4 kg

Cat. No.: **vv 320/76**



PH LIQUIDATOR II

The PH-Liquidator II, is a multipurpose rescue tool especially designed for fire/rescue personnel for accomplishing forcible entry into buildings, vehicles and other locked enclosures. The PH- liquidator II consists of a stainless shaft, which is equipped with non-slip grooves and two heat treated stainless steel working ends. One working end has a curved pike for prying a lock or latch and a duckbill with a smooth incline to force windows and doors. The other working end is provided with a cutting edge for ripping metal sheets or composites.

Length: 915 mm
Width: 160 mm
Height: 155 mm
Weight: 4,8 kg

Cat. No.: **vv 321**

Length: 762 mm
Width: 160 mm
Height: 155 mm
Weight: 4 kg

Cat. No.: **vv 321/76**



PH 52 SEWER MOLE

C52 Sewer Mole is used to clean sewage system and drain pipes from mud and other deposited debris. High-pressure water breaks layers deposited on the sewer or drain pipe wall directing the nozzle in the opposite direction to enable its motion with the hose in the sewer pipe. Pressure water is provided by a hydrant or a pump via a C52 hose.



Nozzle shell:	duralumin piece
Nozzle insert:	duralumin piece with a 2´´ thread
Nozzle jet:	brass piece, full or with a jet

Nozzle flow rate: 460 l/min at pressure 0.4 MPa
Weight: 0.9 kg with a C52 Al coupling
Connection of the nozzle to the hose by a C52 coupling
Minimum diameter of the drain pipe wall, sewer pipe, etc. is 130 mm

Cat. No.: **vv 229**

PH HOSE BRIDGE

The PH Hose bridge provides protection for hoses or cables etc. by means of two channels, each of 85 mm in diameter, while insuring a method of safe passage for heavy fire-fighting machinery or other vehicles.

- The hinged connecting elements can also be used to carry the bridge
- Design of the bridge allows the use on any surface
- Yellow reflective stripes (3 pieces on each side)
- Made of durable black rubber
- Possibility to connect multiple bridges together with unlimited width
- Designed for two pcs of B75 hoses or for two C52 hoses

- Maximum load: 40 t
- Weight: 11 kg
- Length: 860 mm
- Width: 300 mm
- Height: 100 mm



Catalogue No.: **vv 400**

PROFI - D25, C52 AND B75 HOSE RACK

The C 52 hose rack is designed for carrying up to 3 pieces of C 52 fire hoses. The B 75 is designed for carrying 2 pieces of B75 folded-up hoses. All hoses are connected to each other with couplings. During their use in the action, the end of the hoses is fixed and by moving from the place of fixing the hoses are unfolded from the rack up to the point where needed by the firefighter.

D25

Dimensions:	width:65 mm, height: 340 mm, length: 525 mm
Weight:	1.45 kg
Material:	stainless steel 17240
Cat. No.:	**vv 208**

C52

Dimensions:	width:120 mm, height: 400 mm, length: 700 mm
Weight:	1.65 kg
Material:	stainless steel 17240
Cat. No.:	**vv 205**

B75

Dimensions:	width: 140 mm, height: 400 mm, length: 700 mm
Weight:	1.75 kg
Material:	stainless steel 17240
Cat. No.:	**vv 206**



BAG 4H BASIC

Backpack with basic set of equipment, designed especially for extinguishing forest fires or fires in hard-to-reach terrain.

The Basic set contains:

1x backpack BAG 4H
4x PH-Action D25 hose in the length of 20 m
1x C-DCD distributor
2x adjustable combined nozzle D 25
1x hose strap

The backpack BAG 4H is made of waterproof Cordura® fabric coated with PU coating on the inside. It is equipped with wide shoulder straps allowing adjustment for different heights of figures.
Comfort is provided by a softened padded back. The soft inner liner is also fitted on the front of the bag to protect the hoses. The backpack is equipped with a handle for easy carrying.

The **PH-Action D25** hose is an insulated fire hose designed primarily for professional and voluntary fire brigades. It can be used at temperatures from -30°C to +70°C. The hose is marked by three colour strips: blue-red-blue. The outside colour of the polyester fibre is white; the inside rubber liner is black. The four hoses are provided with aluminum couplings.

The **distributor C – DCD** is used for division of a water stream of 52 into two streams of 25 and one of 52. The outlets are equipped with ball valves providing the possibility of closing and regulating the individual streams.

The **adjustable combined nozzle D 25** is designed for fighting fires by full jet or stream with smoothly adjustable spraying angle.

The **hose strap** is a rope with an eyelet on one side and a wooden peg on the other. It is used primarily for secure attachment of pressure hoses.

The weight of the whole set is a

Item: **Bag 4H Basic**
Cat. number: vv 820



BAG 4H CLASSIC

Backpack with an extended set of equipment, designed especially for extinguishing forest fires or fires in hard-to-reach terrain.

The Classic set contains:

1x backpack BAG 4H
4x PH-Action D25 hose in the length of 20 m
1x C-DCD distributor
2x adjustable combined nozzle D 25
1x Tajfun - Profi D nozzle
1x Tajfun – Profi D/C nozzle
1x Adaptor C/D Al
1x PH ATOMIC mist lance Attack
1x hose strap

The **Bag 4H Proline** is made of waterproof Cordura® fabric coated with PU coating on the inside. It is equipped with wide shoulder straps allowing adjustment for different heights of figures.
Comfort is provided by a softened padded back. The soft inner liner is also fitted on the front of the bag to protect the hoses. The backpack is equipped with a handle for easy carrying.

The **PH-Action D25** hose is an insulated fire hose designed primarily for professional and voluntary fire brigades. It can be used at temperatures from -30°C to +70°C. The hose is marked by three colour strips: blue-red-blue. The outside colour of the polyester fibre is white; the inside rubber liner is black. The four hoses are provided with aluminum couplings.

The **distributor C – DCD** is used for division of a water stream of 52 into two streams of 25 and one of 52. The outlets are equipped with ball valves providing the possibility of closing and regulating the individual streams.

The **adjustable combined nozzle D 25** is designed for fighting fires by full jet or stream with smoothly adjustable spraying angle.

The **Tajfun - Profi D nozzle** is designed for water using full jet and spray stream, especially for extinguishing dusty and easily swirling substances. Using the revolving head you can change smoothly the pattern from full jet to spray or even to a fog screen and to shut off the nozzle. Adjusting the screen to its maximum position has a flushing function. The swivel inlet flange is fitted with a D 25 rigid pressure coupling.

The **Tajfun - Profi D/C nozzle** is designed for water using full jet and spray stream, especially for extinguishing dusty and easily swirling substances. The lever is used to close or open the nozzle. Using the revolving head you can change smoothly the pattern from full jet to spray or even to a fog screen and to shut off the nozzle. The swivel inlet flange is fitted with a C52 rigid, pressure coupling.

The **Adaptor C/D Al** is fitted with Al flange with pressure sleeves.

The **PH ATOMIC – Water Mist Fire Suppression Lance "Attack"** consists of a stainless-steel nozzle body, a spike with 16x1.9mm holes on each side around the perimeter, a ball valve and an inlet part fitted with Storz D25 Brass coupling for a pressure of 40 bar. The ball valve can be used to close or open the mist nozzle. This PH ATOMIC mist lance is designed for spraying water by direct spray of mist.

The **hose strap** is a rope with an eyelet on one side and a wooden peg on the other. It is used primarily for secure attachment of pressure hoses.
The weight of the whole set is about 20 kg.

Item: **Bag 4H Classic**
Cat. number: vv 821





BAG 4H PROLINE

Backpack with a first-class set of equipment, designed especially for extinguishing forest fires or fires in hard-to-reach terrain.

The Proline set contains:

1x backpack BAG 4H
4x Proline D25 hoses in the length of 20 m
1x C-DCD distributor
2x adjustable combined nozzle D 25
1x Tajfun - Profi D nozzle
1x Tajfun – Profi D/C nozzle
1x Adaptor C/D Al
1x PH ATOMIC mist lance Attack
1x hose strap

The **Bag 4H Proline** is made of waterproof Cordura® fabric coated with PU coating on the inside. It is equipped with wide shoulder straps allowing adjustment for different heights of figures.
Comfort is provided by a softened padded back. The soft inner liner is also fitted on the front of the bag to protect the hoses. The backpack is equipped with a handle for easy carrying.

The **Proline D25** hose is intended for interventions in forest and mountain terrain and where there is an increased risk of mechanical damage. This hose consists of three layers. The outside layer is a high-strength PES yarn, the inside liner is black EPDM rubber and the middle connecting layer is white. The four hoses are provided with aluminium couplings.

The **distributor C – DCD** is used for division of a water stream of 52 into two streams of 25 and one of 52. The outlets are equipped with ball valves providing the possibility of closing and regulating the individual streams.

The **adjustable combined nozzle D 25** is designed for fighting fires by full jet or stream with smoothly adjustable spraying angle.

The **Tajfun - Profi D nozzle** is designed for water using full jet and spray stream, especially for extinguishing dusty and easily swirling substances. Using the revolving head you can change smoothly the pattern from full jet to spray or even to a fog screen and to shut off the nozzle. Adjusting the screen to its maximum position has a flushing function. The swivel inlet flange is fitted with a D 25 rigid pressure coupling.

The **Tajfun - Profi D/C nozzle** is designed for water using full jet and spray stream, especially for extinguishing dusty and easily swirling substances. The lever is used to close or open the nozzle. Using the revolving head you can change smoothly the pattern from full jet to spray or even to a fog screen and to shut off the nozzle. The swivel inlet flange is fitted with a C52 rigid, pressure coupling.

The **Adaptor C/D Al** is fitted with Al flange with pressure sleeves.

The **PH ATOMIC – Water Mist Fire Suppression Lance "Attack"** consists of a stainless-steel nozzle body, a spike with 16x1.9mm holes on each side around the perimeter, a ball valve and an inlet part fitted with Storz D25 Brass coupling for a pressure of 40 bar. The ball valve can be used to close or open the mist nozzle. This PH ATOMIC mist lance is designed for spraying water by direct spray of mist.

The **hose strap** is a rope with an eyelet on one side and a wooden peg on the other. It is used primarily for secure attachment of pressure hoses.
The weight of the whole set is about 23 kg.

Item: **Bag 4H Proline**
Cat. number: vv 822



Notes:

Notes:

QUALITY POLICY IN PAVLIŠ A HARTMANN

As a manufacturer of fire fighting equipment, hoses and fire hydrant systems, it is our goal to satisfy the requirements of our customers regarding not only the quality of the product but also our partner-like approach and reliability based on our management system. We consider implementation of a functional and effective quality system to be a natural aspect of a modern company management. Our commitment to implementation and constant improvement of the quality management system is based on the philosophy:

„HIGH QUALITY AND RELIABILITY OF OUR PRODUCTS WILL BRING BACK OUR CUSTOMERS“.

1. The customer's satisfaction is a priority of all our staff.
2. The quality of fire-fighting equipment requires systemic management of processes and constant improvement of production and instrumentation technology. We want innovations of products and equipment that will strengthen our position in the market.
3. A satisfied employee influences the quality of production and internal communication. We want to achieve maximum involvement of the staff in our business success.
4. Our aim is to develop partnerships with our suppliers on the win-win principle.
5. Our intention is to implement the quality system, so that it meets the customers' requirements according to the standard CSN EN ISO 9001:2001and the requirements of a supplier for the Czech Army.



CERTIFIKÁT

č. 42013837-2

LL-C Certification

Pavliš a Hartmann, spol. s r.o.
V Telčicích 249
533 12 Chvaletice
Česká republika

včetně provozovny:
V Telčicích 249, 533 12 Chvaletice

ISO 9001:2015

Vývoj a výroba výrobků protipožární techniky. Strojírenská výroba.

Tento certifikát byl vydán pod číslem 42013837-2 a je platný od 11. června 2020 do 10. června 2023.
První certifikát byl vystaven dne 12. června 2017.

IAF

www.ll-c.net

LL-C (Certification) Czech Republic a.s. | Pobřežní 620/3, 186 00 Praha 8



CERTIFIKÁT

č. 42013837-1

LL-C Certification

Pavliš a Hartmann, spol. s r.o.
V Telčicích 249
533 12 Chvaletice
Česká republika

včetně provozovny:
Lipská 994, 517 21 Týniště nad Orlicí

ISO 14001:2015

Výroba výrobků protipožární techniky.

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The manufacturer reserves the right to modify and improve the products illustrated and described in this catalogue as long as such modifications do not affect the function of the equipment, without prior notice and without accepting any liabilities.

www.firefighting-phhp.com

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