19/07/2026
VFNPH21ELC875

Fire hydrant ELANCIO Non Traffic DN80-100 - Symmetric outlets

A good choice on a long term period

SG PAM Fire Hydrants are designed to last in time without particular intervention; their functionalities are kept even after many years of use.
The product was qualified in our PAM Laboratory accredited COFRAC.
The product offers higher performances compared to the requirements of the standards:

- a number of opening and closing higher than the 1,000 necessary cycles;
- a resistance of the envelope to the pressure higher than 25 bars;
- easily manoeuvrable with operating torques lower than 80 Nm.

DN (mm)	Version	Outlets	P=HC (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	E (mm)	S (mm)	Type	Mass (kg)	References
80	Bended box	1xDN65	1000	1941		429	1151	120	95x80	Red cover	83.00	RYA80KEBAC
80	Bended box		1000	1941		429	1151	120	95x80		83.00	RYA80KEBACJ

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ELANCIO FIRE PROTECTION

DN 80 - 100

19/07/2026

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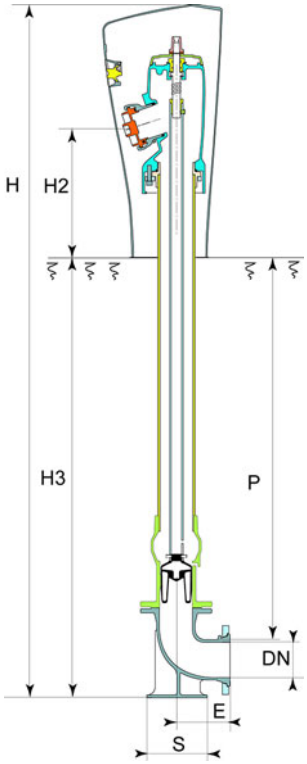
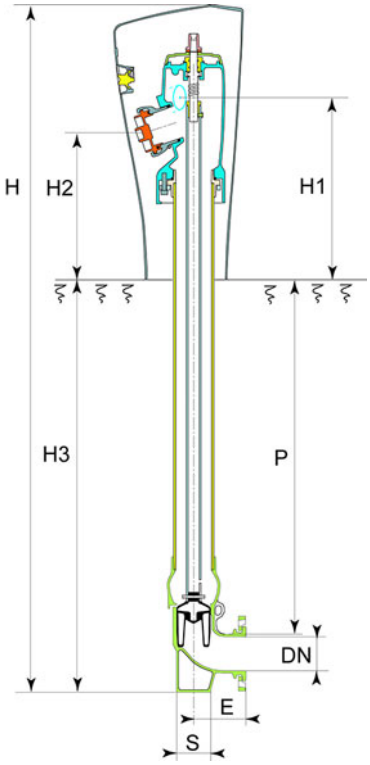
DN (mm)	Version	Outlets	P=HC (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	E (mm)	S (mm)	Type	Mass (kg)	References
80	Bended box	2xDN40 + 1xDN65	1000	1941	528	429	1151	120	95x80	Red cover	83.00	RYA80KEBBC
80	Straight box	1xDN65	1250	2199		460	1410	165	180x180	Red cover	103.00	RYA80KVCAC
80	Straight box		1250	2199		460	1410	165	180x180		103.00	RYA80KVCACJ
100	Bended box	2xDN65 + 1xDN100	1002	1961	561	459	1170	152	100x90	Red cover	87.00	RYB10KEBCC
100	Bended box		1002	1961	561	459	1170	152	100x90		87.00	RYB10KEBCCJ
100	Straight box	2xDN65 + 1xDN100	1002	1961	561	459	1170	152	100x90	Red cover	87.00	RYB10KVBCC
100	Straight box	2xDN65 + 1xDN100	1250	2224	561	459	1434	180	200x200	Red cover	110.00	RYB10KVCCC
100	Straight box		1250	2224	561	459	1434	180	200x200		110.00	RYB10KVCCCJ

Straight valve box



Bended valve box



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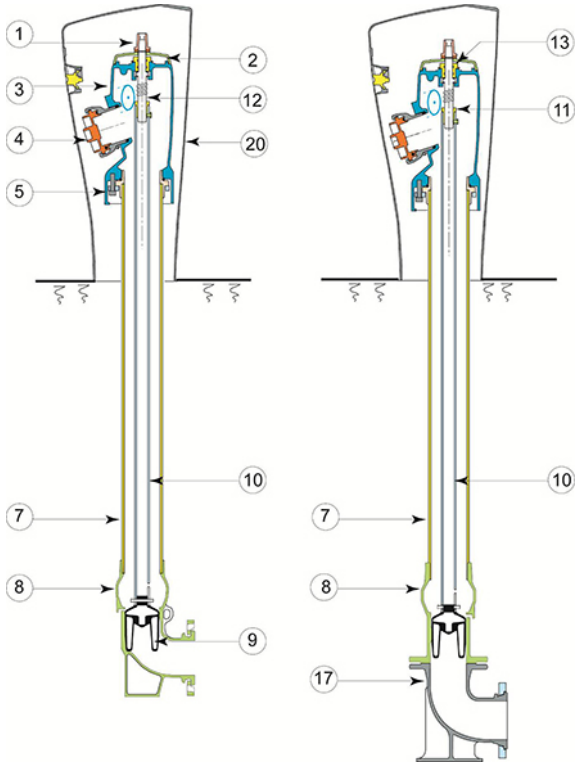
Field of use

Fire hydrants pillar or underground type are designed, according to applicable standards and regulations, for exclusive use of fire protection and using drinking water or raw water network.

They must be handled and used in strict compliance with the recommendations and best practice by personnel trained with these recommendations.

These devices must be inspected periodically (as required by regulations or recommended instructions) to verify and maintain their proper and safe operation.

Material and coating



Item	Designation	Material	Coating
1	Operating cap	Ductile iron EN GJS 400-15 or 500-7 EN 1563	Zinc coated
2	Cover	Polyamide P A 6	Grey polyurethane paint
3	Upper body	Ductile iron EN GJS 400-15 or 500-7 EN 1563	250 microns fusion bonded red-brown epoxy + red polyurethane

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Item	Designation	Material	Coating
4	Symmetric Outlet plugs	Aluminium type AS7G	Red polyurethane
5	Fixing screw CHC	Steel CL 8/8 type	Zinc coated
6	Adjustable box	Ductile iron	Bituminous varnish
7	Extension tube	Ductile iron EN GJS 400-15 or 500-7 EN 1563	Blue epoxy powder thickness 250 microns
8	Valve box (straight or bended)	Ductile iron EN GJS 400-15 or 500-7 EN 1563	Blue epoxy powder thickness 250 microns
9	Gate	Ductile iron NF EN 1563	Covered with EPDM elastomer
10	Operating rod	Steel Tu 56-8 type NF EN 10240	Galvanized
11	Operating nut	Brass Cu Zn 39 Pb2 type NF EN 12420	
12	Operating stem	Steel X 20 CR 13 type NF EN 10088-3	
13	Upper and lower bush	Brass Cu Zn 39 Pb2 typeNF EN 12420	
14	Lower body	Ductile iron	Red-brown epoxy powder 250 microns + red polyurethane
15	Clamping blocks	Ductile iron	Blue epoxy powder thickness 250 microns + red polyurethane
16	Lower flange	Ductile iron EN GJS 400-15 or 500-7 EN 1563	Blue epoxy powder thickness 150 microns
17	Flanged duckfoot bend	Ductile iron EN GJS 400-15 or 500-7 EN 1563	Blue epoxy powder thickness 150 microns
18	Upper operating rod	Steel XC 38	Epoxy Cataphoresis
19	Pavement plate	PA6	
20	ELANCIO cover	Polyester with fibreglass	Red polyurethane + varnish

Notice NPPI 11 A

Coating

Epoxy + red polyurethane 250 microns mini inside and outside for an excellent behavior against corrosion. A complementary coating on the air part enables him to resist the climatic requests: sun, the moon, bad weather, etc...
Reference of the repairing paint: 291163

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Standards and marking

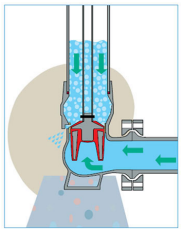
- Standards: fire hydrant Atlas+ Non Traffic DN100 is in conformity with Standards NF EN 14384/CN.
- Mark NF: SG Pam is authorized by CSTB to put NF Mark on this product. It is in conformity with Standards and complementary specifications NF EN 14384/CN.
- CE marking: fire hydrant for fire network in conformity with Standard NF EN 14384.
- Alimentarity: the product is in conformity with the French regulation. It obtained the Sanitary Conformity certificate (ACS).

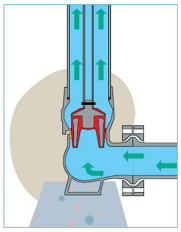
Technical characteristics

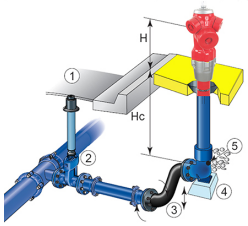
Fire hydrant operating:

- Square: 30 x 30mm
- Closing direction: clockwise
- Number of revolutions: 13
- Kv coefficient: 160 (on the central outlet)
- Outlets diameter: 2 outlets Ø65 and 1 outlet Ø100 symmetric
- Connecting flange: drilling ISO PN10/16
- Allowable operating pressure (PFA): 16 bars
- Factory test pressure:
  - Body: 25 bars
  - Plug: 18 bars

Reliable and perennial closing system







The closing system used with the products of the fire network was designed to guarantee the maximum security.

Easy draining without maintenance

Automatic draining.
The fire hydrant equipped with a plug must be completely empty after use to avoid the risks of freezing in winter. SG PAM developed a completely automatic system of draining made up of a simple opening integrated in the ductile iron of the valve box.

Single design without component: no maintenance, perennial operation, no spare parts.

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Fire hydrant in closed position (drawing 1) : the valve releases the opening of draining and water is evacuated gravitationally.

Fire hydrant in opened position (drawing 2) : the valve closes the draining from the beginning of the opening to the total opening. There is no loss of water during the opening operation.

Progressive and durable valve

Valve made up of two ductile iron parts covered with EPDM. This technology enables a perennial tightness.

During the closing operation, the two parts approach by compressing the EPDM to have a durable tightness.

The closing system has been studied so that the flow is established in a progressive way at the opening and closing of the fire hydrant to avoid any risks of water hammer (sinusoidal tightness line).

Closing system with right geometry to avoid its blocking by possible foreign elements contained in water (stones for example) which could involve a tightness defect.

A great simplicity of installation and use

The fire hydrant was designed with a mobile flange at the level of the duckfoot bend to be able to adjust the fire hydrant direction compared to its environment.

Installation of the fire hydrant in conformity with Standard NF S 62 200 and the regulations of the Book of the General Technical Specifications at the Public Markets of Works (fascicule 71)

Earthwork is not necessary and the fire hydrants are directional on 360°.

The smooth barrel without bolt avoids the problems of corrosion of the fire hydrant, and is integrated directly in the ground, which makes it possible to simplify works of completion or landscape installation surrounding.

On this drawing it’s necessary to underline:

- the use of an adjustment ‘S’ Bend in order to put the hydrant at the good level ;
- the draining material around the drain ;
- the block of the duckfoot bend ;
- the short flanged pipe or a piece of pipe with assembling pieces to respect a distance of 1 m minimum (from axis to axis) between the fire hydrant and the valve or 3 m minimum if the valve is in the axis of the front outlet of the fire hydrant.

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Linked products

Accessory for ELANCIO

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