Suction Pillar Hydrant in load C9+ Non Traffic

A good choice on a long term period

SG PAM Pillar 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.

Version	Mass (kg)	References
Bended box	82.00	185282

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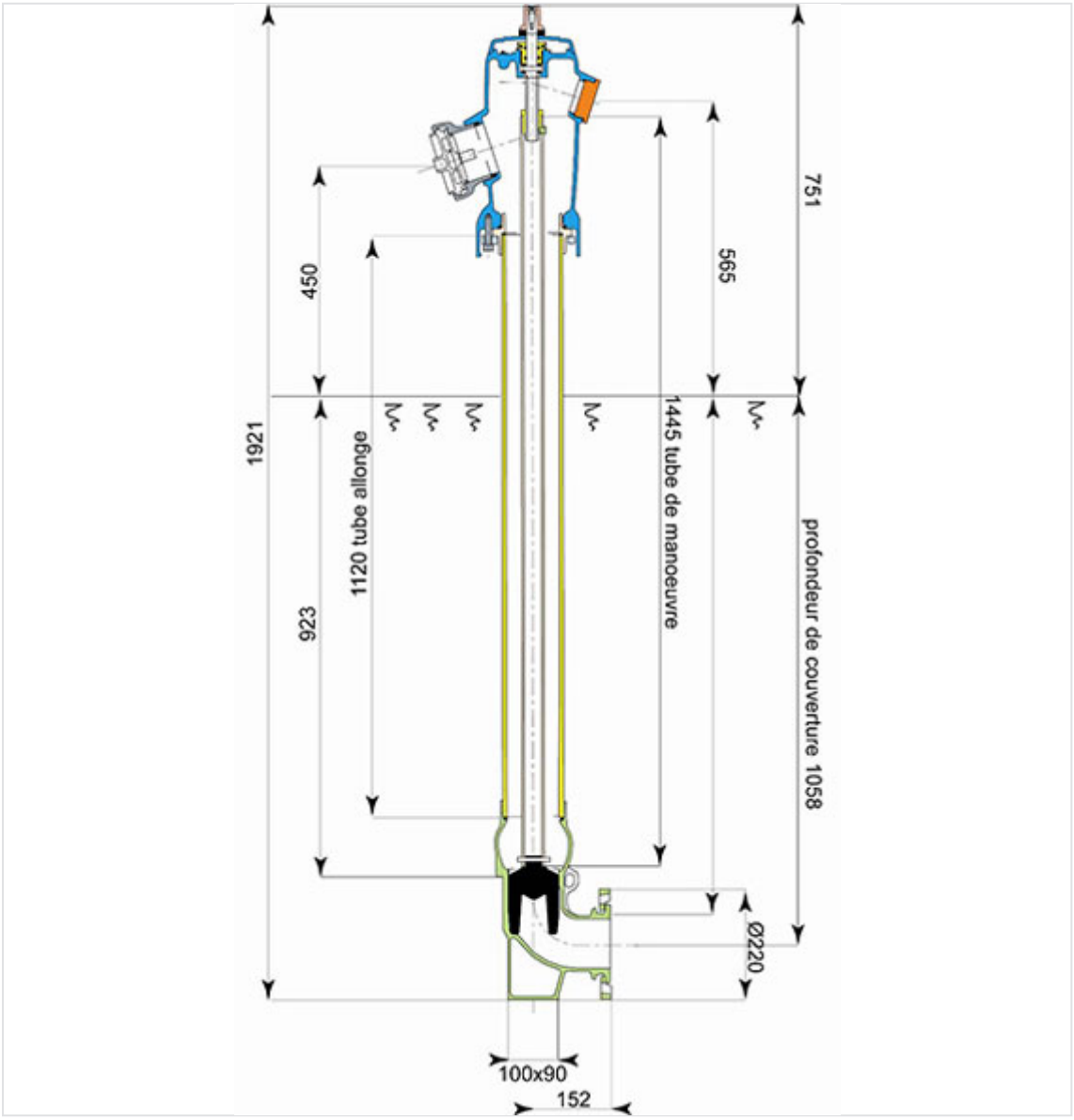

Field of use

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.

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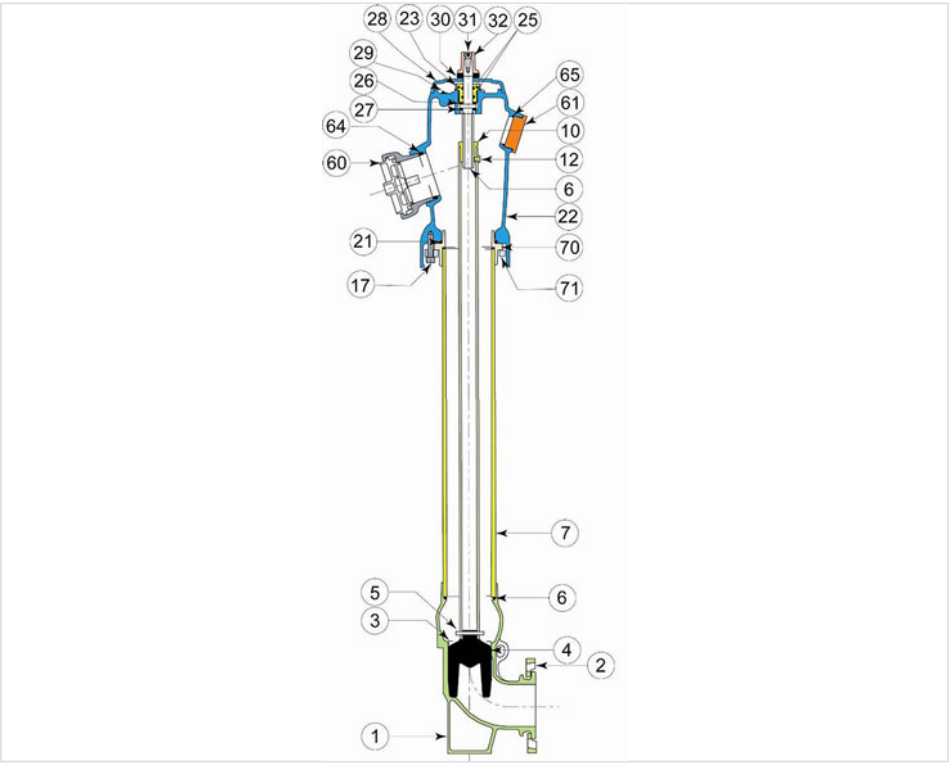
These devices must be inspected periodically (as required by regulations or recommended instructions) to verify and maintain their proper and safe operation.

Material and coating



Item	Designation	Material
71	Counter-flange	Ductile iron EN GJS 400-15 or 500-7 EN 1563
70	Screwed flange	Ductile iron EN GJS 400-15 or 500-7 EN 1563
65	Joint DN65	Polyurethane
64	Joint DN100	Polyurethane
61	Plug DN65	Aluminium
60	Kit outlet + symmetrical plugs DN100	Aluminium AS7G Y33 NF EN 1706
32	Operating cap	Ductile iron EN GJS 400-15 or 500-7 EN 1563
31	Screw CHc M8x25	Steel Cl 8/8 zinc coated Bichromated
30	Foam-rubber joint 42x22	EPDM
29	Number plate	Aluminium
28	Cover of marking	ASA

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Item	Designation	Material
27	Thrust washer 39x26	Cu Sn 7 Pb 6 Zn 4 NF EN 1982
26	Friction ring 36x25.5	PA 6-6
25	Joint R16	EPDM NF EN 681-1
24	Joint R29	EPDM NF EN 681-1
23	Screwed stage M44x2.5	Cu Zn 38 Pb 2 NF EN 12420
22	Body C9 Plus	Ductile iron EN GJS 400-15 or 500-7 EN 1563
21	O'ring 115x8	Elastomer CL 70 (alimentary)
18	Washer Z12	Steel Cl 6/6 zinc coated Bichromated
17	Screw A T-basse Torx M12x50	Steel Cl 6/6 zinc coated Bichromated
12	Adjusting screw HM 8x8	Stainless steel A2-70 ISO 3506
10	Operating nut	Cu Zn 40 NF EN 12420
9	Operating screw	X 20 Cr 13 NF EN 10088-3
8	Operating rod 1445	Steel TU 56-8 NF EN 10240
7	Tube allonge 1120	Ductile iron NF EN 545
6	Joint	Polyurethane
5	Pin diam 8x65	X 20 Cr 13 NF EN 10088-3
4	Moulded valve	Ductile iron NF EN 1563 + EPDM
3	Jacket	Cu Sn 6 Zn 4 Pb 2 EN 1982 or Cu Zn 40
2	Half flange DN100	Ductile iron EN GJS 400-15 or 500-7 EN 1563
1	Bended valve box	Ductile iron EN GJS 400-15 or 500-7 EN 1563

Final coating: Epoxy + blue polyurethane (RAL 5005) thickness 250 microns mini inside and outside to have an excellent resistance against corrosion. A complementary coating on the upper part offers a good resistance to climatic factors: sun, moon, bad weather, etc...

Alimentarity

The product is in conformity with the French regulation.
It obtained the Sanitary Conformity certificate (ACS).

Technical characteristics

Pillar hydrant operating:

- Square: 30x30 mm
- Closing direction: clockwise
- Number of revolutions: 13
- Kv coefficient: 160
- Diameter of the outlet: Ø100 symmetric

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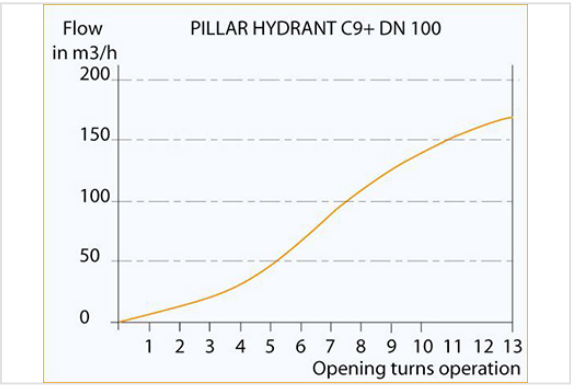
- Connection flange: drilling ISO PN10/16
- Allowable operating pressure (PFA): 16 bars
- Factory test pressure: Body: 25 bars, Plug: 18 bars

Hydraulic performances

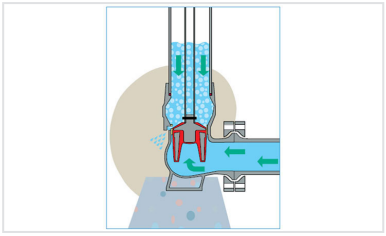


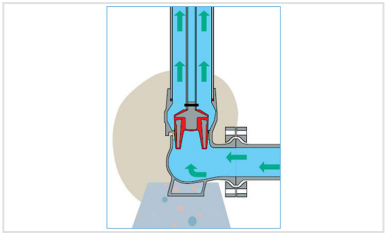
Flow of the pillar hydrant C9 + non traffic DN100 according to the number of operating revolutions and creating a pressure loss of 1 bar with full opening.

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

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.

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