



Underground fire hydrant Mod. Urano

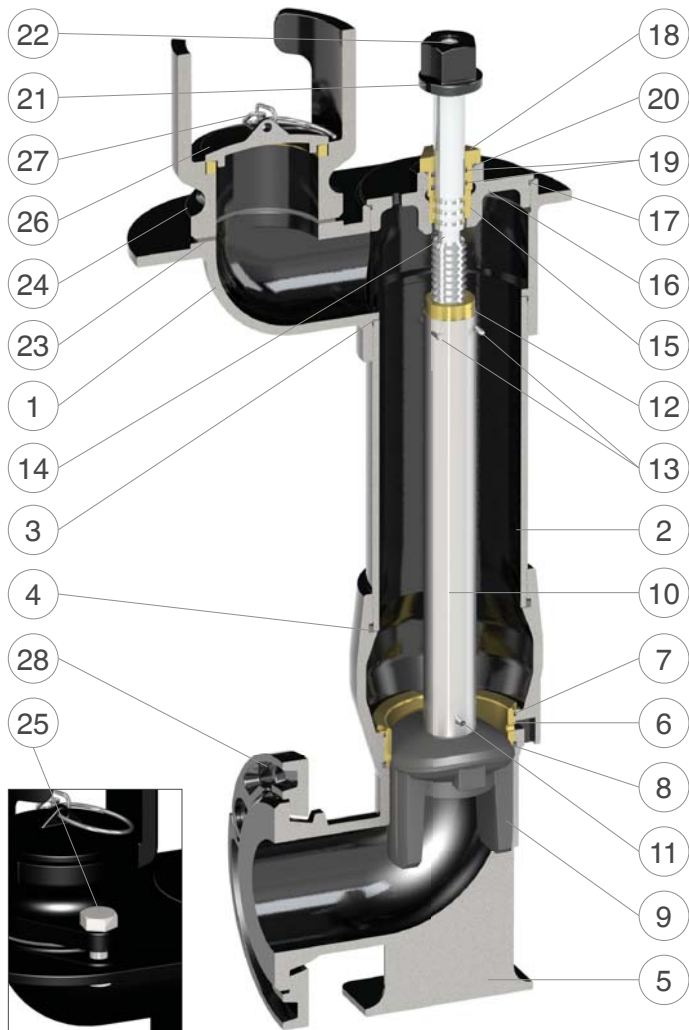
The CSA underground fire hydrant Mod. URANO, completely made in ductile cast iron and stainless steel, has been specifically designed for the highest quality standards and long lasting performances. The execution with different heights and built in anti-freezing drainage system makes it suitable also in areas and locations subject to frost.



Technical features and benefits

- In compliance with the applicable EN standards.
- Main pipe, upper body and duck foot bend in ductile cast iron to guarantee the maximum safety also in case of overpressure and unexpected water hammer events. Internal components in stainless steel.
- The obturator, manufactured in ductile cast iron and covered in vulcanized EPDM, has been studied to reduce water hammer effects and vibrations during closure, and consequently sudden drop in pressure during opening. This is due to the particular conical winged shape and the special housing obtained inside the duck foot bend.
- The sealing is obtained by means of the compression of the rubber of the obturator against the ring in bronze, properly machined with the drainage hole and threaded on the lower part of the hydrant. In comparison with other designs, where a simple flat disk is closing on the metal, CSA solution increases dramatically the reliability and safety assuring a perfect water tightness also in case of high pressure values.
- Anti-leakage system thanks to the winged shape design of the obturator, allowing the water discharge through the drainage anti-freezing hole only when the hydrant is fully closed. During opening and movement of the obturator, in fact, the inlet upstream pressure will never be in contact with the drainage hole ensuring a real anti-leakage system which can never be obtained with flat shutters.
- Painting is carried out by potable water approved epoxy powders, to guarantee the uniform thickness inside and outside of the hydrant with the best quality and durability of coating.

Technical details



N.	Component	Material
1	Upper body	GJS 500-7
2	Barrel	steel
3	O-ring gasket	NBR
4	O-ring gasket	NBR
5	Duck foot bend	GJS 500-7
6	Sealing ring	bronze
7	O-ring gasket	NBR
8	O-ring gasket	NBR
9	Wedge	GJS 500-7/NBR
10	Stand pipe	stainless steel
11	Cotter pin	stainless steel
12	Threaded part	bronze
13	Pins	stainless steel
14	Upper stem	stainless steel
15	Anti-friction washer	brass
16	Bonnet	GJS 500-7
17	O-ring gasket	NBR
18	Hold down nut	brass
19	O-ring gaskets	NBR
20	O-ring gasket	NBR
21	Operating nut	GJS 500-7
22	TCEI screw	stainless steel
23	Plane gasket	neoprene
24	Bayonet fitting	GJS 500-7
25	Nuts and bolts	stainless steel
26	Tap	GJS 500-7
27	Chain	stainless steel
28	Adjustable flanges	GJS 500-7

The list of materials and components is subject to changes without notice.

Working conditions

Treated water maximum 70°C.

Pressure testing

Test of mechanical resistance with obturator fully open at 25 bar.

Test of mechanical resistance with obturator fully closed at 20 bar.

Standard

Designed in compliance with EN 1074/6 and EN 14339. Flanges according to EN 1092/2. Black epoxy painting. Available in different heights of the underground barrel. Different painting, flanges and height on request.

Model	A mm	Connection	Flange	Weight Kg
DN 80A	650	DN 70		31
DN 80B	850	threaded	DN 80	37
DN 80C	1150	or	PN 16	44
DN 80D	1400	DN 70 bayonet		51

