

UNDERGROUND HYDRANT DN80 PN16

3500-16

3600-16

Purpose

Firefighting and drawing water for municipal purposes. Max. temp. 40° C

Authorisation

- National Institute of Public Health PZH
- Scientific and Research Centre for Fire Protection
- Certificate of approval
- CE certificate

Technical information

- Performance requirements and verification tests according to PN-EN 14384 and PN-EN 1074-6
- Flange connection according to PN-EN 1092-2
- Maximum closing torque: MOT 105 Nm
- Working pressure: PN16
- Kv coefficient min. 60
- Number of turns until the beginning of the opening: 3
- Number of turns for full opening: 10
- Nominal hydrant capacity 10 dm³/s at a pressure of 0.2 MPa in accordance with PN-B 02863

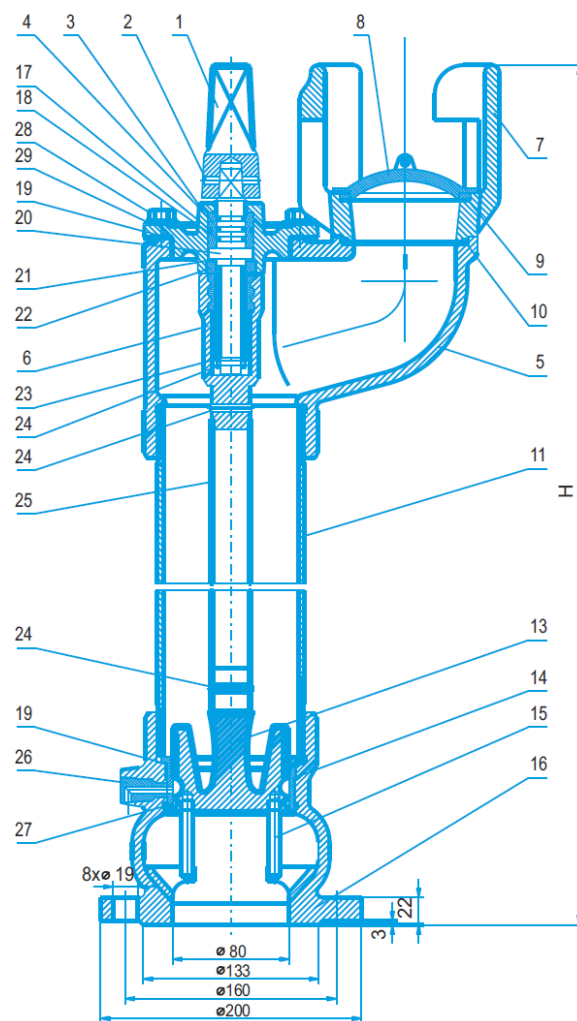
Design features

- Upper body, valve chamber and hydrant stand connection made of ductile cast iron, grade EN-GJS 500-7, column according to the table, stem made of stainless steel.
- Hydrant piston vulcanized with EPDM rubber of 70° Sh. hardness.
- Brass stem nut with trapezoidal thread, cast in cast iron housing.
- Spindle (stem) made of stainless steel with cold-rolled thread.
- Closing of the hydrant is executed by a piston cooperating with a brass guide sleeve
- Self-draining follows at the moment of complete closure of the hydrant.
- Possibility of trenchless replacement of internal elements ("drive").
- Full anticorrosive protection inside and outside with epoxy powder paint with coating thickness min. 250µm, resistant to flashover 3 kV.



No.	Part	Materials
1.	Cap	Gray cast iron EN-GJL 250 Ductile iron EN-GJS 500-7
2.	Spring pin	Galvanized or stainless steel
3.	Upper head plug	Gray cast iron EN-GJL 250 Ductile iron EN-GJS 500-7
4.	Choke bushing	Polyamide PA6 or brass
5.	Upper body	Gray cast iron EN-GJL 250 Ductile iron EN-GJS 500-7
6.	Nut housing Nut	Ductile iron EN-GJS 500-7 Brass
7.	Hydrant stand connection	Ductile iron EN-GJS 500-7
8.	Protective cover	Polypropylene F-401
9.	Sealing ring	EPDM rubber
10.	Gasket	EPDM rubber
11.	Column	235 steel 235 steel, hot-dip galvanized Stainless steel Ductile iron EN-GJS 420-10
12.		
13.	Rubber covered hydrant piston	Ductile iron EN-GJS 500-7 /EPDM rubber
14.	Guide sleeve	Polyamide PA6 or brass
15.	Piston guide rod	Stainless steel 1.4021
16.	Valve chamber	Gray cast iron EN-GJL 250 Ductile iron EN-GJS 500-7
17.	O-ring	EPDM rubber
18.	O-ring	EPDM rubber
19.	O-ring	EPDM rubber
20.	Stem	Stainless steel 1.4021
21.	Washer	Polyamide PA6
22.	Screw plug	Polyamide PA6
23.	Washer	Stainless steel 1.4021
24.	Spring pin 6x40	Galvanized or stainless steel
25.	1" stem pipe	Galvanized or stainless steel
26.	Dehydrator	Polyamide PA6
27.	O-ring	EPDM rubber
28.	M10x25 bolt	Galvanized or stainless steel
29.	O-ring	EPDM rubber
30.	Washer	Galvanized or stainless steel

***dirt deflector on request**



DN	H	Rd	Weight 1,2,3(kg)	Cat. No. 1&6	Cat. No. 1&7	Cat. No. 2&6	Cat. No. 2&7	Cat. No. 3&6	Cat. No. 3&7	Weight 4&5 (kg)	Cat. No. 4&6	Cat. No. 5&7
80	500	750	22,5	3503	3504	3523	3502	•	•	24,0	3550	3650
80	750	1000	25,0	3505	3506	3525	3507	3508	3509	30,0	3555	3655
80	1000	1250	27,5	3510	3511	3530	3512	3513	3514	36,0	3560	3660
80	1250	1500	30,0	3515	3516	3535	3517	3518	3519	42,0	3565	3665
80	1550	1800	33,0	3520	3521	3536	3522	3526	3527	47,0	•	3670

Column:

- Steel pipe
- Galvanized steel pipe
- Stainless steel pipe
- Ductile iron pipe EN-GJS 500-7

Valve chamber, upper body:

- Ductile iron EN-GJS 500-7