IMP ARMATURE D.O.O.
Ljubljanska cesta 43
1295 Ivančna Gorica
Slovenija EU
t +386 (0)1 7887 300
f +386 (0)1 7887 328
e info@imp-ta.si
w imp-ta.si

UNDERGROUND HYDRANT TYPE 2016A

INSTRUCTIONS FOR SAFE HANDLING

Naziv: **UNDERGROUND HYDRANT TYPE 2016A**

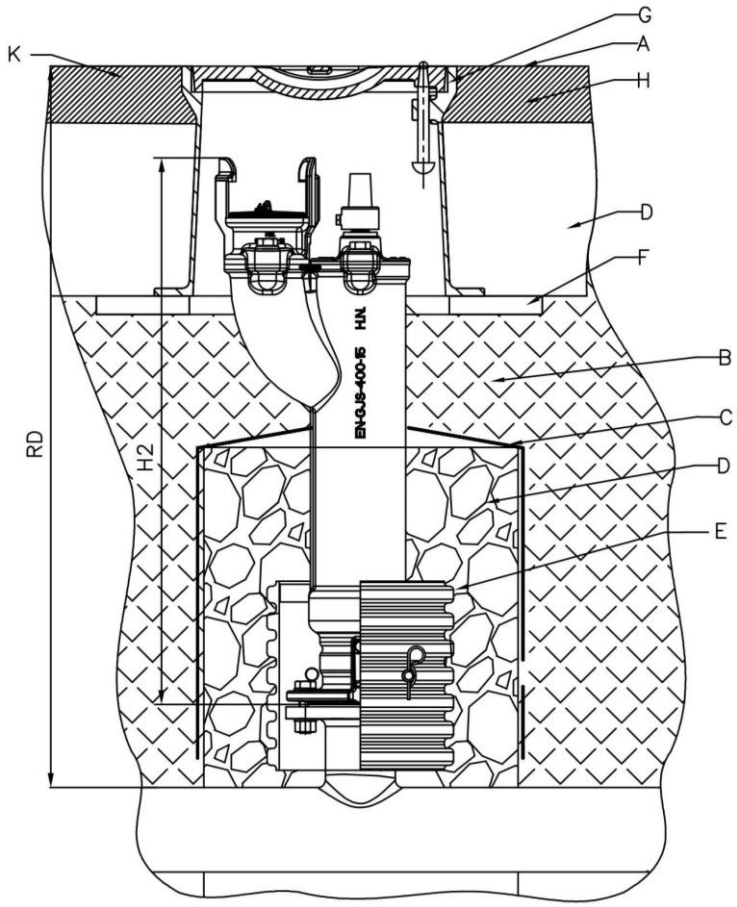
Highest working –operating pressure
- PN 16 = 16 bar

1. PRODUCT INSTALLATION

Correct installation of the hydrant is a condition for its uninterrupted operation.
For optimal choice of the hydrant is particularly important the depth of the pipeline, which defines the mounting depth of the hydrant. When installing the hydrant, particular attention should be paid to the safety of the worker undertaking these operations; therefore a suitably sized excavation with a levelled area shall be arranged, where the worker can stand. It should be checked that no sand or dirt is present in the pipe, which could damage the hydrant's sealing element. A sealing element shall be fastened onto a clean connecting flange, afterwards the hydrant shall be set and uniformly tightened with screws.
The design of the drainage at the outlet is very important, particularly on heavy clayey areas. Otherwise the water from the hydrant will not drain, which may cause the medium to freeze at low temperatures of and consequently cause damage on the hydrant. When filling up the hydrant, particular attention should be paid not to damage it. Prior to the installation of the hydrant, the through-flow must be blocked, i.e. the water distribution system should be empty.

INSTALLATION OF THE HYDRANT INTO PIPELINE

HYDRANT DIMENSIONS		
DN	**MOUNTING DEPTH (Rd)**	**H2**
80	750	508
	1000	738
	1250	988
	1500	1238



A – Ground level
B – Well-established ground
C – Recommended PE foil
D – Sand (thickness 4-20mm)
E – Option: drainage protection
F – Base plate
G – Surface box
H – Grass
K – Asphalt

NOTE – hydrant is suitable for use with potable water, however it is required to flush the hydrant before use.

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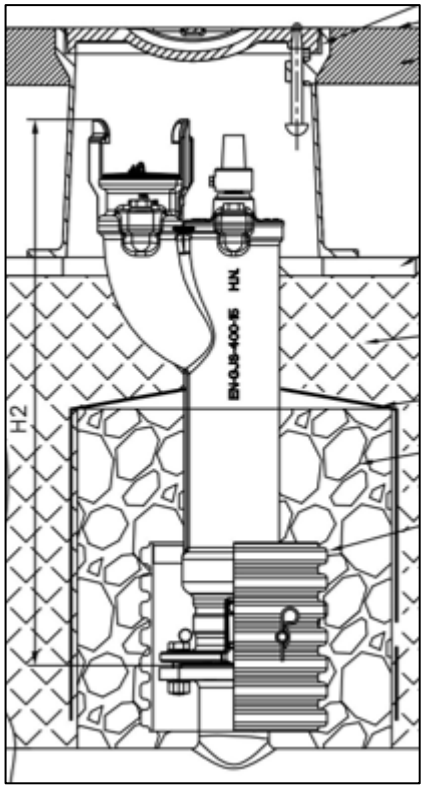
- **ALLOWED POSITIONS OF THE INSTALLED PRODUCT**



This is the only possible correct installation position for the product to function optimally.

2. MAINTENANCE AND REPAIRS

Underground hydrant is of a simple design and does not require special maintenance.
Two annual inspections are advised to assure that rainwater has not left any deposits in the surface box, which could obstract the use of the hydrant.
It is particularly important that after the use the hydrant is closed with a rubber cover. This prevents the entry of dirt (ants and other organisms in soil) into the hydrant.

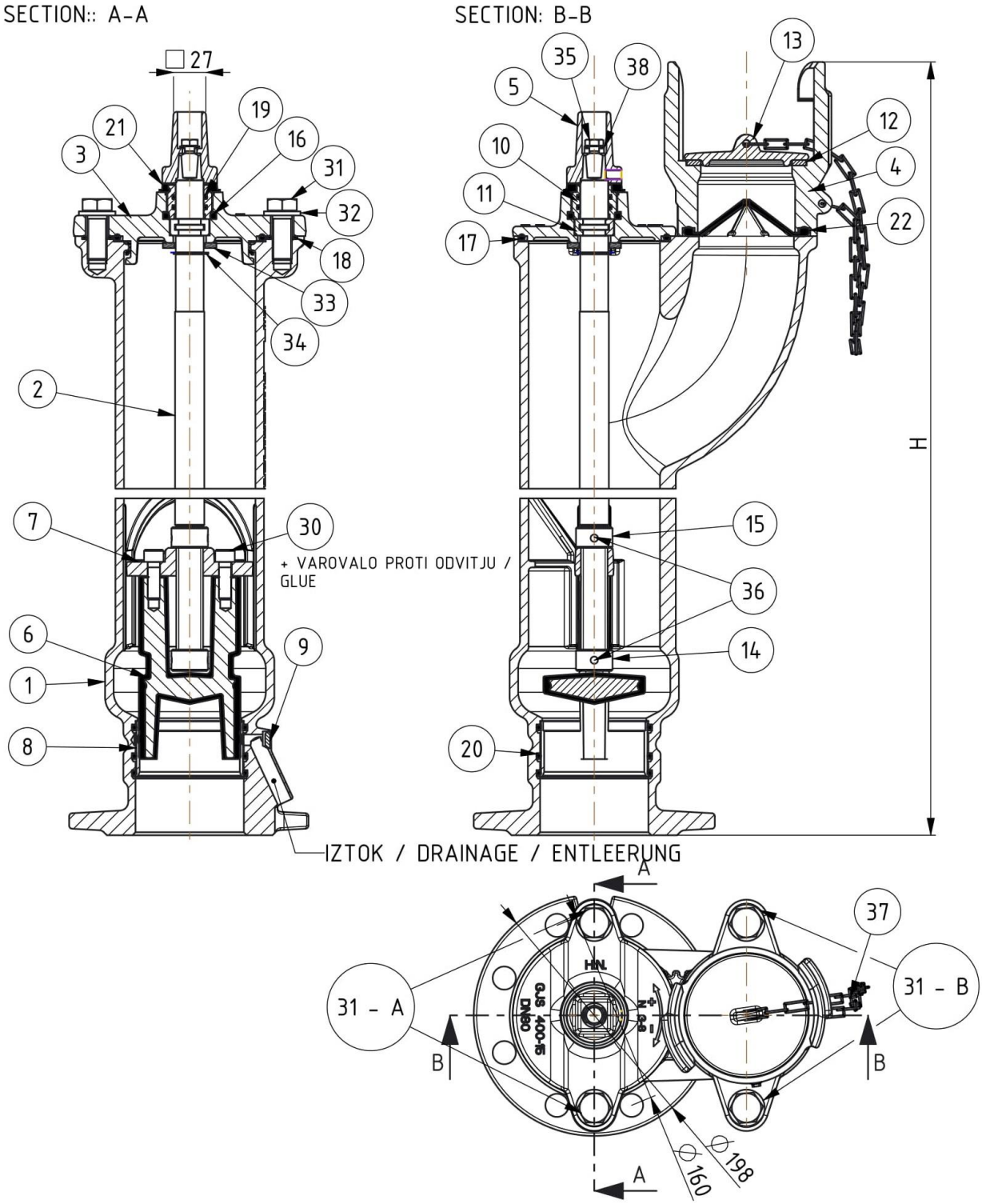
Before any maintenance work on or in the hydrant, the valve in front of the hydrant must be closed! Pressure release of the hydrant must be assured, for example open the hydrant. All service work on the hydrant can only be performed by a qualified and trained person.

Procedure of replacement of the main sealing element (6):
Close the inflow of water into the hydrant, open the hydrant to open position and check that it is not under pressure. Unscrew the bolts pos. 31-A and remove the bonnet of hydrant pos. 3. Rotate bonnet for 30° before pulling it out to loosen safety breech. Together with cover pull out also the spindle pos. 2 and all related parts including piston pos. 6. Unscrew bolts pos. 30 and replace piston with a new one. Screw bolts pos. 30 back and secure them against unscrewing with thread locker Loctite or similar.
Replace cover gaskets pos. 17 and gaskets pos. 18. Insert the cover together with spindle and piston back into the hydrant. Push the piston inside with light pressure so the piston slides automatically into its place. Rotate the cover of hydrant for 30°, push it into the body and rotate it again until holes for screws in the same line. Screw

bolts pos. 31-A back into their position with torque 90Nm. Close the hydrant, open the inflow of water into the hydrant and check the operating function of hydrant.

Procedure of replacement of the outlet (4):
Close the inflow of water into the hydrant, open the hydrant to open position and check that it is not under pressure. Unscrew the bolts pos. 31-B, by which the outlet pos. 4 is fixed. Remove the damaged outlet, membrane pos. 22 and gaskets pos. 18. Place the new gaskets and outlet in and screw the bolts pos. 31-B with torque 90 Nm.

Pos.	Pcs.	Description and dimens.	Material	Pos.	Pcs.	Description and dimens.	Material
1	1	BODY	EN-GJS-400-15	21	1	WIPPER RING	EPDM 70 ShA
2	1	SPINDLE	W. No 1.4028	22	1	MEMBRANE	EPDM 70 ShA
3	1	BONNET	EN-GJS-400-15	30	2	SCREW	A2
4	1	OUTLET	EN-GJS-400-15	31	4	SCREW	A2
5	1	OPERATING CAP	EN-GJS-400-15	32	4	WASHER	A2
6	1	PISTON	EN-GJS-400-15 / EPDM 70 ShA	33	1	WASHER	A2
7	1	SPINDLE NUT	CW 614 N	34	1	RETAINING RING	A2
8	1	SEALING RING	W. No 1.4301	35	1	SCREW	A2
9	1	PLUG	KOTERM - PE	36	2	PIN	A2
10	1	SEALING NUT	CW 614 N	37	1	CHAIN	A2
11	1	LIMITER	CW 614 N	38	1	WASHER	PA6
12	1	MS RING	CW 614 N				
13	1	CAP	EN-GJS-400-15				
14	1	LIMITER	CW 614 N				
15	1	LIMITER	CW 614 N				
16	1	GASKET	EPDM 70 ShA				
17	1	»O« RING 113,7X5,33	EPDM 70 ShA				
18	4	»O« RING 18X3	EPDM 70 ShA				
19	2	»O« RING 23X3	EPDM 70 ShA				
20	3	»O« RING 87X4	EPDM 70 ShA				


SECTION:: A-A
SECTION: B-B
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+ VAROVALO PROTI ODVITJU / GLUE
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IZTOK / DRAINAGE / ENTLEERUNG
A
37
31 - A
31 - B
B
B
A
GJS 400-15 DN80
Ø160
Ø198