

Appearance

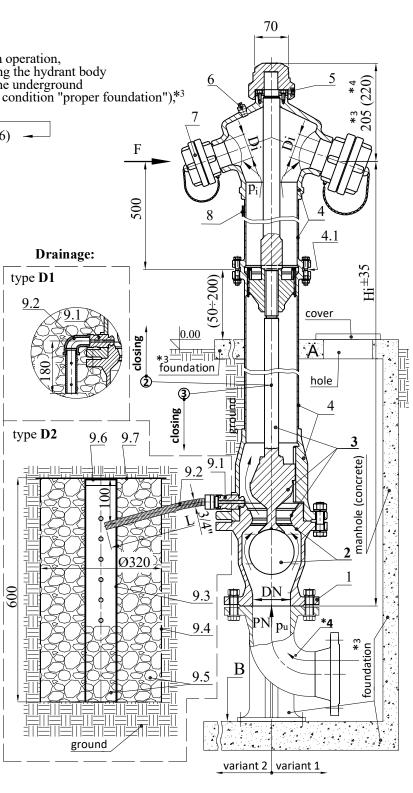
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## PILLAR FIRE HYDRANT WITH FRACTURE SYSTEM type LNHI

<Two in one = hydrant + isolating pre-valve>

<Double reliability = use even when main valve is defective>

## <high flow Kv = 142 m<sup>3</sup>/h>PROCUREMENT DATA\*1 \* Name: Fragile above ground fire hydrant Made in accordance with the standard EN14384\*2 ( Nominal sizes: DN80, PN16 \* With isolation ,,prevalve" \*With control valve \* Use even when the main valve seal is broken With the blocking of unauthorized activation, or not \* Flow Kv $[m^3/h]$ : (for Di=2x50) Activation moment MOT: <60 Nm (Class 1) \* Repair of the main valve: the other hydrants remain in operation, without digging up the ground and without dismantling the hydrant body \* Break (4.1) of the hydrant body: without damage to the underground part of the hydrant and without water leakage (with the condition "proper foundation"),\*3 Breaking force F: max\_1200 daN Flange EN1092-2 (DN80, PN16) (DN100, PN16) Particular request, "describe" \* Input connection: <del>-</del>(1300) (1500) (1800) mm \* Nominal height Hi:-Particular request, "describe" -(2x50+1x65) mm \* Outlet opening Di: -Particular request, "describe" \* Output couplings: - Specify label and standard D1 (particular request) \* Medium: Water (technical) (drinking) \* Deliver documents: "Prospect"; "Test Report", issued by an "authorized body"; - Valid "Certificate of Conformity", issued by an "authorized body" \*1 — If necessary, "omit/add" The standard determines the min. performance, and recommends the better Appearance: 1. Inlet flange 2. Isolation "pre-valve" 3. Obtutator - "main valve" 4. Body 4.1 Place of breaking due to force F 5. Blocking of unauthorized activation 6. Control valve (safety; sealing) 7. Output couplings 8. Identification plate ("CE", "K<sub>v</sub>",...) 9. **Drainage drain:** (not defined by the standard) type **D1**: 9.1 Drain valve 9.2 Drain pipe 9.3 Stones \*4 $-(16 \div 31) \text{ mm}$ type **D2:** 9.1 Drain valve 9.2 Drain pipe —→(L=?) mm 9.3 Distribution pipe 9.4 Wired basket 9.5 Stones \*4 \_ $\sim (16 \div 31) \, \text{mm}$ 9.6 Cover 9.7 Plastic foil\*4





- Provided by the buyer

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No. 04.23/10.4.1

# PILLAR FIRE HYDRANT WITH FRACTURE SYSTEM type LNH1

<Two in one = hydrant + isolating pre-valve>
<Double reliability = use even when main valve is defective>
<high flow Kv = 142 m<sup>3</sup>/h>

#### **Basic technical characteristics:**

- \* Safe = compliant with the requirements of the standard EN 14384 = (
- \* Purpose: Taking water from underground pipelines for fire fighting and communal needs
- \* See "Order information" L1/2
- \* Flow:  $\overline{\text{Kv}}=142 \text{ m}^3/\text{h}$ , for Di=2x50
- \* Moment of activation Mot: max 50 Nm (Class 1)
- \* breaking force..... F=1100 daN
- \* foundation .....
- \* weight ...... ~ (53÷67) daN for Hi (1300÷1800) mm
- \* materials:
  - hydrant body .....nodular cast / stainless steel
  - obtutator seat.....brass
  - outlet couplings.....alumunium
  - spindle .....stainless steel
  - sealants.....elastomers

### **Advantages:**

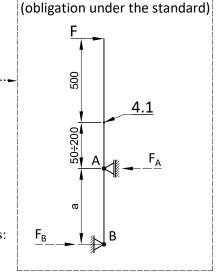
- \* Isolation pre-valve (2) inside the hydrant, automatic, self-blocking, which enables:
- the use of a hydrant even when the main valve (3) is defective,
- that the other hydrants remain in operation even when the main valve seal is replaced
- to omit a separate isolation valve in front of the hydrant,
- **lower cost** of procurement and maintenance of the hydrant network.
- \* High flow:  $Kv=142 \text{ m}^3/\text{h}$ , for Di=2x50
- \* In case of breakage due to force F: the hydrant remains closed, and the part of the hydrant below the breakage point remains undamaged,
- \* Replacing the main valve seal: without digging up the ground and without disassembling the body,
- \* Possibility of blocking (6) unauthorized activation,
- \* The main valve seal is conical, self-flushing = dirt retention prevented = longer service life of the seal,
- \* Great strength of the obturator and the body of the hydrant, MsT > 250 Nm,
- \* Easy activation: Class 1, MOT < 50 Nm (max allowed 125 Nm; Class 3),
- \* Quick activation: 1 turn until water appears, 8 turns until maximum flow (max. 15 turns allowed),
- \* High reliability of the drainage system = two outlet openings, and self-flushing drainage valve
- \* The possibility (6) of easy control of the correctness of the hydrant,
- \* Obtutator tightness even after 1000 activations,
- \* The amount of residual water in the hydrant body, < 80 cm<sup>3</sup> (max. allowed 100 cm<sup>3</sup>),
- \* Fast drainage, ≤5 min (allowed max. 10 min/m),
- \* Easy replacement of seat, main valve (3) and pre-valve (2)
- \* Drainage valve (9.1) repair; from the outside, partial excavation, and without dismantling the hydrant body. (4)

#### **Documents with the delivery of hydrant:**

- \* Declaration of Performance, or Certificate of Constancy of Performance
- \* Instruction for safety work (installation, handling, inspection, maintenance, guarantee)

#### 

Flow of hydrant:



Load scheme

