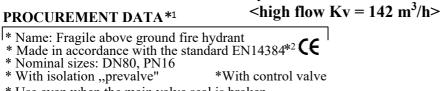


Appearance

PILLAR FIRE HYDRANT WITH FRACTURE SYSTEM type LNH1

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

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



* Use even when the main valve seal is broken

* With the blocking of unauthorized activation, or not * Flow Kv [m³/h]: (for Di=2x50) — min 140 * 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

* Input connection: Particular request, "describe" **−**(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

-With 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 breizing due to force F

5. Blocking of unauthorized activation

6. Control valve (safety; sealing)7. Output couplings

8. Identification plate ("CE","K_v",...)

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

-(L=?) mm 9.2 Drain pipe —

9.3 Distribution pipe

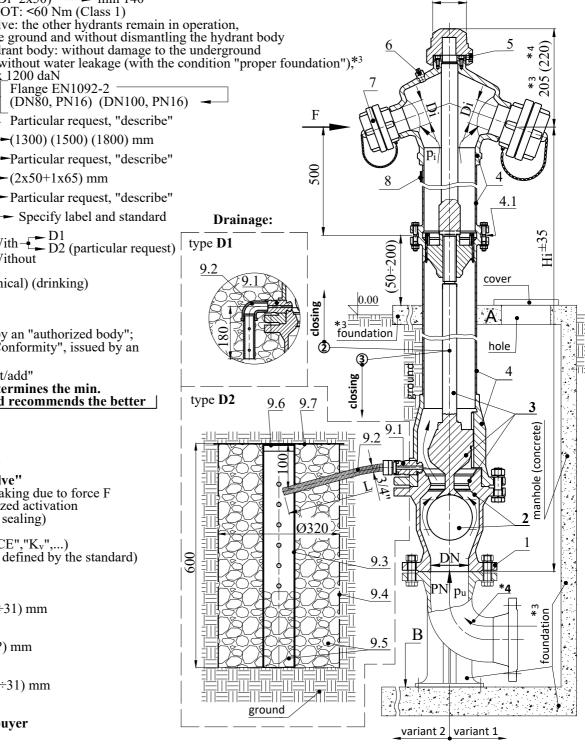
9.4 Wired basket

 $(16 \div 31) \text{ mm}$ 9.5 Stones *4

9.6 Cover

9.7 Plastic foil*4

*4- Provided by the buyer





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Load scheme

(obligation under the standard)

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 m³/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: Kv=142 m³/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 bodynodular cast / stainless steel
 - obtutator seat.....brass
 - outlet couplings......alumunium
 - spindlestainless steel
 - sealantselastomers

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 of easy control (7) of the correctness of the hydrant,
- * Obtutator tightness even after 1000 activations,
- * The amount of residual water in the hydrant body, < 80 cm³ (max. allowed 100 cm³),
- * 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)

$Q[m^3/h]$ Di=2x50Kv = 142Kv=60 1.0 $\Delta p(=p_u-p_i)$ [bar]

Flow of hydrant:

 $Q = K_v \times (1000\Delta p / \rho)^{1/2}$ - flow...... $Q = [m^3/h]$

- flow coefficient..... $K_v = [m^3/h]$

- pressure difference..... $\Delta p = [bar]$

- water density...... $\rho = [kg/m^3]$



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