

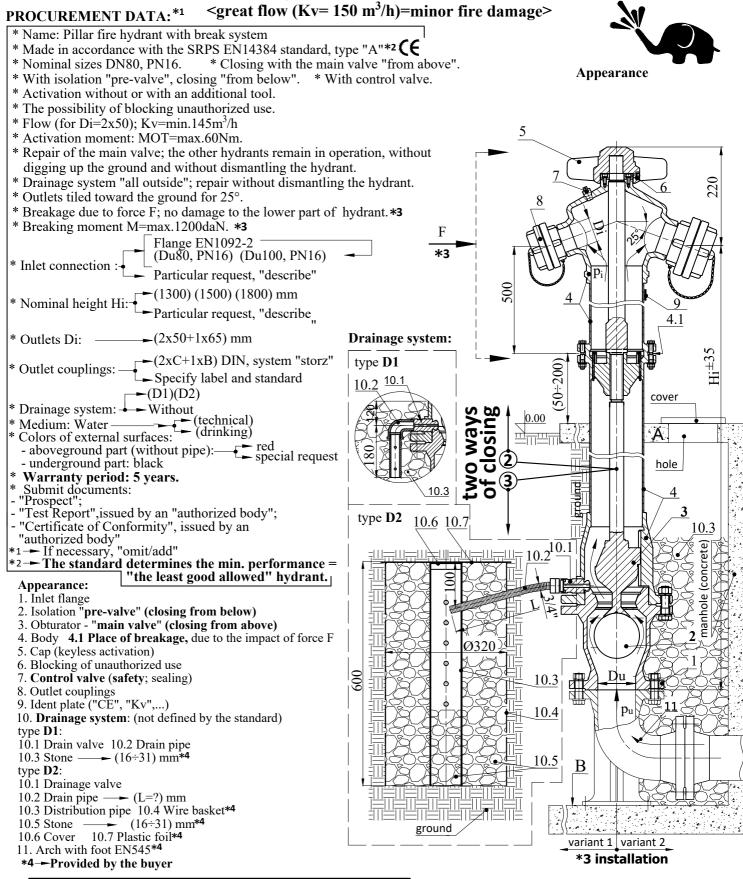
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PILLAR FIRE HYDRANT WITH BREAK SYSTEM type LNH1

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

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





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Basic technical characteristics:

<great flow (Kv= 150 m³/h)=minor fire damage>

- * Safe = complies with the requirements of the EN 14384 standard = (€
- * Purpose: Taking water from underground pipelines for fire fighting and communal needs
- * See "Procurement data" P1/2
- * Flow: Kv=150m³/h, for Di=2x50
- * Moment of activation MOT:max 50 Nm (Class 1)
- * Breaking force F=1100 daN
- * In case of breakage: the hydrant remains closed, and part of the hydrant is below the fracture site remains undamaged
- * Foundation
- * Weight $\sim (53 \div 67)$ daN for Hi $(1300 \div 1800)$ mm
- * Materials:
- hydrant body castings nodular cast
- cap, and output couplings aluminium
- sealants polypropylene/elastomers
- pipe of body, spindle, and obtutator seat stainless steel

Advantages:

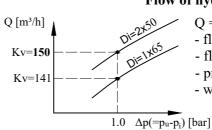
- * Two ways of use = double reliability
 - closing with the main valve (3), from above (regular work),
 - closing with a pre-valve (2), from below (extraordinary work),
- * Isolation pre-valve (2) inside the hydrant, automatic, self-blocking, which enables:
 - that the other hydrants remain in operation even when the main valve (3) malfunction,
 - to omit a separate isolation valve in front of the hydrant,
 - lower cost of procurement and maintenance of the hydrant network,
 - the use of a hydrant even when the main valve (3) is malfunction,
- * Large flow: (Kv=150 m³/h; for Di=2x50); less fire damage.
- * Control valve (7) = great safety of the executor, prevention of hydrant freezing.
- * Activation without additional tools, by turning the cap (5).
- * Easy activation: (class 1, MOT < 50 Nm) longer service life.
- * Possibility of blocking (6) unauthorized use.
- * High reliability of closing; impermeablility even after 1000 closings.
- * Outlets tilted (25°) down, longer service life of fire hoses.
- * The main valve seal is conical, self-flushing = dirt retention prevented = longer service life.
- * Very easy hydrant maintenance:
 - Replacing the main valve seal (3); without digging up the ground and without dismantling the body (4).
 - Possibility (7) of checking the correctness of the drain and main valve.
 - Repair of the drainage valve (10.1); from the outside, partial excavation, and without dismantling the hydrant.
- * Long warranty period 5 years.
- * Probably the best, and the most economical hydrant available

Documents accompanying the delivery of hydrant: $Q[m^3/h]$

* Declaration of Performance,

or Certificate of Constancy of Performance

* Instruction for safety work (installation, handling, inspection, maintenance, warranty)



Flow of hydrant:

 $Q = K_v \times (1000\Delta p / \rho)^{1/2}$

- flow...... Q [m³/h]

- flow coefficient...... K_v [m³/h]

- pressure difference..... Δp [bar]

- water density...... ρ [kg/m³]



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