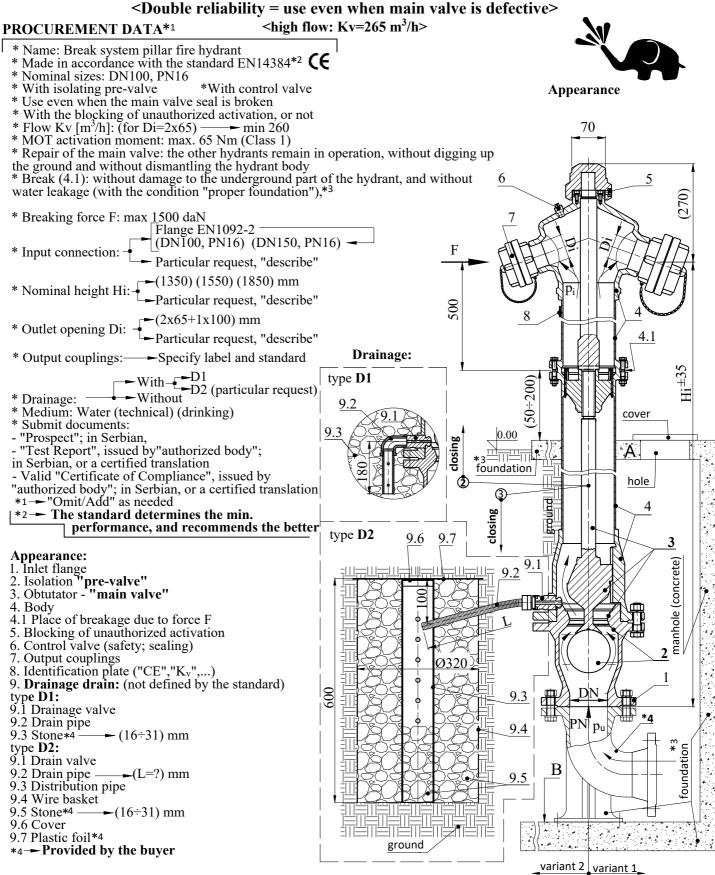


PILLAR FIRE HYDRANT WITH FRACTURE SYSTEM type LNH2

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





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4.1

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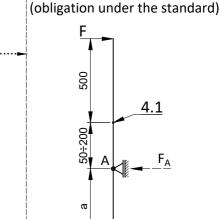
<Double reliability = use even when main valve is defective>

Basic technical characteristics:

<high flow: Kv=265 m 3 /h>



- * Purpose: Taking water from underground pipelines for fire fighting and communal needs
- See "Procurement data" L1/2
- * flow: $\overline{Kv} = 265 \text{m}^3/\text{h}$, for Di=2x65
- * momenat of activation Mot: max. 55Nm, (Class 1)
- * fracture force F=1350 daN
- * foundation
- * weight $\sim (57 \div 94)$ daN for Hi $(1350 \div 1850)$ mm
- - hydrant bodynodular cast / stainless steel
 - obturator seatbrass
 - outlet couplings.....aluminium
- spindle, and obturator seat.....stainless steel
- sealants.....polypropylene/elastomers



Load scheme

Advantages:

- * Isolation pre-valve (2) inside the hydrant, automatic, self-blocking, which enables:
 - use of the hydrant and in case the main valve (3) is broken,
 - 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 construction and maintenance of the hydrant network.
- * High flow; $Kv = 265 \text{ m}^3/\text{h}$, for Di= 2x65
- * 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,
- * The 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 < 55 Nm (max. allowed 130 Nm; Class 3),
- * Quick activation: 1 turn until water appears, 10 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 closing and draining.
- * Great closing reliability; impermeability of the shutter even after 1000 activations,
- * The amount of residual water in the hydrant body, < 80 cm³ (max.allowed 150 cm³),
- * Quick drainage, ≤ 7 min (max. allowed 10 min/m),
- * Easy replacement of main valve seat (3) and pilot valve seat (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) Kv=265

$Q[m^3/h]$ Di=2x65 $K_{V} = 140$ 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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