

P 1/2

PILLAR FIRE HYDRANT WITH FRACTURE SYSTEM type LNH2

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

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

<great flow (Kv= 278 m³/h)=minor fire damage> PROCUREMENT DATA: *1 * Name: Pillar fire hydrant with fracture system * Made in accordance with the SRPS EN14384 standard.*2 * Nominal sizes: DN100, PN16. Appearance *With isolation "pre-valve". *With control valve. * Activation without or with an additional tool. * The possibility of blocking unauthorized use. * Flow (for Di=2x65): Kv=min 270m3//h. 5 * Activation moment MOT= max. 65 Nm (Class 1). * The drainage drain is already closed at 20% of the opening stroke.
* Repair of the main valve: the other hydrants remain in operation, without digging up the ground and without dismantling the hydrant body. * Fracture; without damage to the pipeline, automatic stoppage of water flow (with the condition "proper foundation"). * Breaking moment M= max 1 500 daN.*3 Flange EN1092-2 (Dulo, PN16) (Dulo, PN16) * Input connection:-Particular request, "describe" -(1350) (1550) (1850) mm * Nominal height Hi: Particular request, "describe" **Drainage:** -(2x65+1x100) mm type D1 * Outlet opening Di: Particular request, "describe" 10.1 * Output couplings: - Specify label and standard cover −With − D1 Without D2 (particular request) * Drainage: (technical) (drinking) * Medium:Water *Colors of external surfaces: hole · red overhead part (not pipe):special request - underground part: black Deliver documents: - "Prospect"; - "Test Report", issued by an "authorized body";
- Valid "Certificate of Conformity", issued by an type **D2** 10.6 "authorized body"
*1 → If necessary, "omit/add"
2 → The standard determines the min. performance, and recommends the better Appearance: 1. Inlet flange 2. Isolation "pre-valve" 3. Shutter - "main valve" 4. Body 4.1 Place of breaking, Due to the impact of force F 5. Cap 6. Blocking of unauthorized use 7. Control valve (safety; tightness) 10.3 8. Output couplings 9. Ident plate ("CE", "Kv",...) 10.4 10. Drainage drain: (not defined by the standard) type D1: 10.1 Drain valve 10.2 Drain pipe 10.3 Stone $--(16\div31) \text{ mm}^$ 10.5 type D2: 10.1 Drain valve 10.2 Drain pipe (L=?) mm 10.3 Distribution pipe 10.4 Wire basket $(16 \div 31) \text{ mm}^{*4}$ 10.5 Stone — 10.6 Cover 10.7 Plastic foil*4 variant 1 variant 2 11.Arch with foot EN545*4



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*3 foundation



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Basic technical characteristics:

<great flow (Kv= 278 m³/h)=minor fire damage>

- * Safe = compliant with the requirements of the standard EN 14384 =
- * Purpose: Taking water from underground pipelines for fire fighting and communal needs
- * See "Procurement data" L1/2
- * flow: $\overline{Kv} = 278 \text{m}^3/\text{h}$, for Di=2x65
- * momenat of activation Mot: max. 55Nm, (Class 1)
- * fracture force F=1350 daN
- * foundation
- * weight~ (57÷94) daN for Hi (1350÷1850) mm
- * materials:
- -hydrant body castings..... nodular cast
- -cap, and output couplings..... aluminium
- -sealants.....polypropylene/elastomers
- -pipe of body, spindle, and obtutator seat..... stainless steel

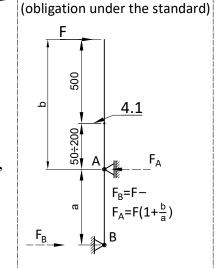
Advantages:

- * 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 defective,
- * Large flow: (Kv=278 m3//h; for Di=2x65); minor fire damage.
- * The possibility of using a hydrant (drainage drain closed) at a flow rate of (20÷100)%.
- * Activation without additional tools, by turning the cap (5).
- * Possibility of blocking (6) unauthorized use.
- * Possibility to control (7) the correctness of the drainage and main valve, greater operator safety.
- * Easy activation: (class 1, MOT < 55 Nm) longer service life.
- * Great closing reliability; impermeability even after 1000 closures.
- * High reliability of the drainage system = two outlet openings, self-flushing drainage valve.
- * High strength of the closure and hydrant body, MsT > 250 Nm.
- * Very easy hydrant maintenance:
 - Replacing the main valve seal (3); without digging up the ground and without disassembling the body (4).
 - Possibility (7) of checking the correctness of the drain and main valve.
 - Repair of the drainage valve (9.1); from the outside, partial excavation, and without dismantling the hydrant.
 - Easy replacement of seat, main valve (3) and pre-valve (2).
 - The main valve seal is conical, self-flushing = dirt retention prevented = longer service life.

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: $Q[m^3/h]$ $Q = K_v x (1000\Delta p / \rho)^{1/2}$ - flow...... Q [m³/h] Kv=278- flow coefficient..... K_v [m³/h] - pressure difference..... Δp [bar] Kv=267 - water density...... ρ [kg/m³] 1.0 $\Delta p(=p_u-p_i)$ [bar]



Load scheme



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