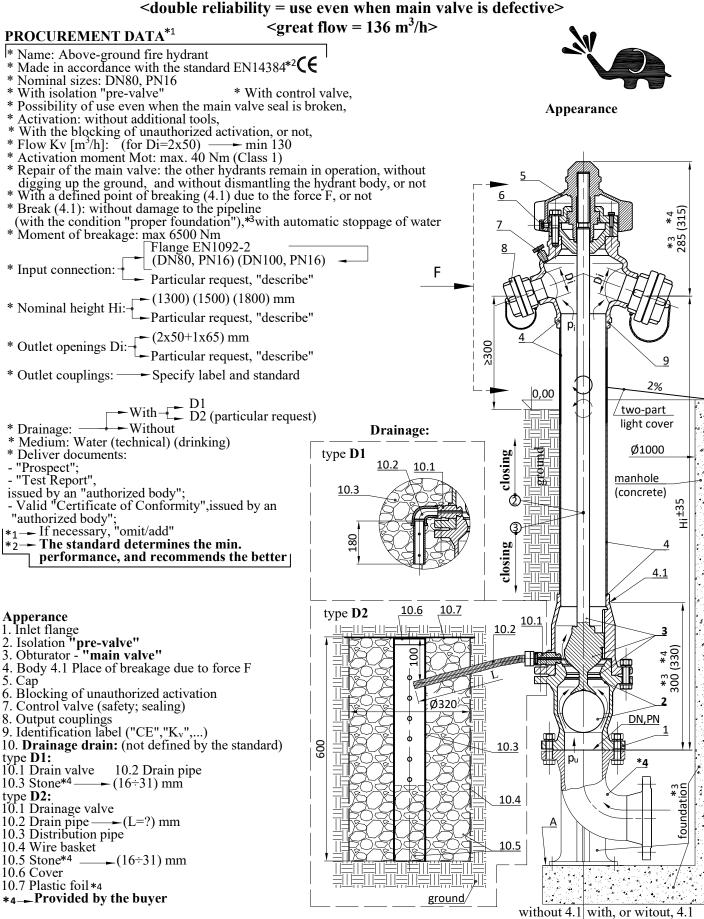


PILLAR FIRE HYDRANT type NH1

No. 01.23/10.4.1

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

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





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PILLAR FIRE HYDRANT type NH1

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

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 "Procurement data" L1/2
- * flow: $\overline{Kv} = 136 \text{ m}^3/\text{h}$, for Di=2x50
- * moment of activation Mot: max. 30 Nm (Class 1)
- * moment of breakage (at point 4.1) due to force F M=6300 Nm
- * foundation (51:65) JoN for Hi (1200:1800) mm
- * weight $\sim (51 \div 65)$ daN for Hi $(1300 \div 1800)$ mm
- * materials:
 - hydrant bodynodular cast / stainless steel
 - spindle and obturator seat,.....stainless steel
 - cap, and output couplings.....aluminium
 - sealants.....polypropylene/elastomers

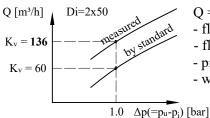
Advantages:

- * 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
 - automatic stop of water leakage, in case of breakage (4.1) due to force F,
 - to omit a separate isolation valve in front of the hydrant,
 - lower cost of construction and maintenance of the hydrant network.
- * High flow, $Kv = 136 \text{ m}^3/\text{h}$, for $Di = 2 \times 50$
- * Replacing the main valve seal: without digging up the ground and without disassembling the body,
- * The threaded part of the obturator is: out of the water flow, permanently lubricated, maintenance-free throughout its working life,
- * Prevented damage to the supply pipeline = breakage at point 4.1, due to force F,
- * Activation without additional tools, by turning the cap (5) on top of the hydrant,
- * Possibility of blocking (6) unauthorized activation,
- * The main valve seal is conical, self-flushing = dirt retention prevented = longer service life of the seal,
- * Easy activation: Class 1, MOT < 30 Nm (max allowed 125 Nm; Class 3),
- * Quick activation: 1 turn until water appears, 8 turns until maximum flow (max. 15 turns allowed),
- * High closing reliability: sealing of the closure even after 1000 closures
- * High reliability of the drainage system = two outlet openings, and self-flushing drainage valve
- * Great strength of the obturator and the body of the hydrant, MsT > 250 Nm,
- * The possibility of easy control (7) of the correctness of the hydrant,
- * Amount of residual water in the hydrant body, < 80 cm³ (max. allowed 150 cm³),
- * Fast draining, ≤5 min (permitted max. 10 min/m),
- * Easy replacement of main valve seat (3) and pre-valve seat (2),
- * Drainage valve (10.1) repair; from the outside, partial excavation, and without dismantling the hydrant body.(4)

Documents with delivery of hydrant:

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

Flow of hydrant:



$$\begin{split} Q &= K_v \; x \; (1000 \Delta p \; / \; \rho) \frac{1}{2} \\ &- flow...... \; Q \; \left[m^3 / h \right] \end{split}$$

- flow coefficient...... K_v [m³/h]

pressure difference..... Δp [bar]
water density...... ρ [kg/m³]

- water density...... p [kg/III-



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Load scheme

(4.1)

F=M/a

 \mathcal{M}_A =Fxb

 $F_A = F$