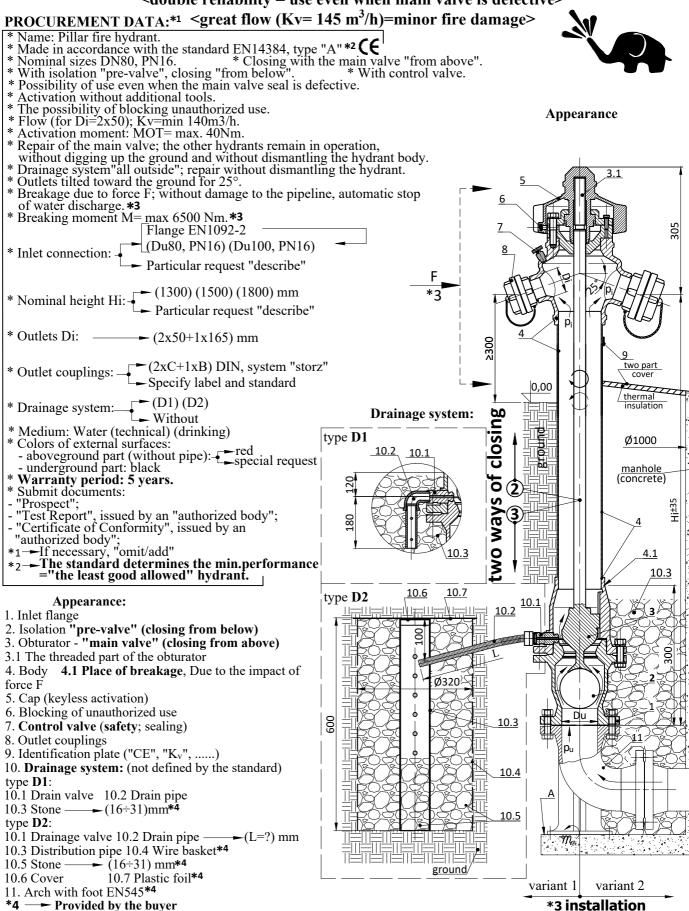


PILLAR FIRE HYDRANT type NH1

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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<great flow (Kv= 145 m³/h)=minor fire damage>

Basic technical characteristics:

- * Safe = compliant with the requirements of the standard EN 14384 = CE
- * Purpose: Taking water from underground pipelines for fire fighting and communal needs
- * See "Procurement data" P1/2
- * Flow: Kv=145 m³/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
- * Weight $\sim (51 \div 65)$ daN for Hi $(1300 \div 1800)$ mm
- * Materials:
- hydrant body castings nodular cast
- cap, and output couplings aluminium
- pipe of body, spindle, and obtutator seat stainless steel
- sealants polypropylene/elastomers

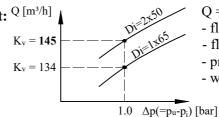


- * Two ways of use = double reliability.
 - closing with the main valve (3), from above (regular work),
 - closing with a pre-valve (2), from below (extraordinary work),
- * Isolation pre-valve (2) inside the hydrant, automatic, self-blocking, which enables:
 - that the other hydrants remain in operation even when the main valve (3) malfunction,
 - automatic stop of water flow, 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,
 - the use of a hydrant even the main valve (3) is malfunction.
- * Large flow: (Kv = 145 m 3 //h, for Di = 2 x 50); less fire damage.
- * Control valve (7) = great safety of the executor, prevention of hydrant freezing.
- * Prevented damage to the supply pipeline = breakage at point 4.1, due to force F.
- * Activation without additional tools, by turning the cap (5).
- * Easy activation: (class 1, MOT < 30 Nm) longer service life.
- * Possibility of blocking (6) unauthorized use.
- * High reliability of closing: impermeability 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).
 - The threaded part of the closure (3.1) is outside the flow of water, permanently lubricated, maintenance-free throughout it's working life.
 - Possibility (7) of checking the correctness of the drain and main valve.
 - Repair of the drainage valve (10.1); from the outside, partial excavation, without dismantling the hydrant.
- * Long warranty period (5 years).
- * Probably the best, and the most economical hydrant available.

Flow of hydrant:

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

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

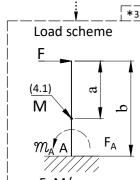


- $Q = K_v x (1000\Delta p / \rho)^{1/2}$
- pressure difference..... Δp [bar]
- water density...... ρ [kg/m³]



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F=M/a $F_A=F$ $\mathcal{M}_\Delta=Fxb$