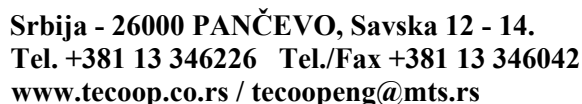


PROCUREMENT DATA: *1 <great flow (Kv= 278 m³/h)=minor fire damage>

Appearance

- *4—Provided by the buyer**



PILLAR FIRE HYDRANT WITH BREAK SYSTEM type LNH2

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

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

<great flow ($K_v = 278 \text{ m}^3/\text{h}$)=minor fire damage>

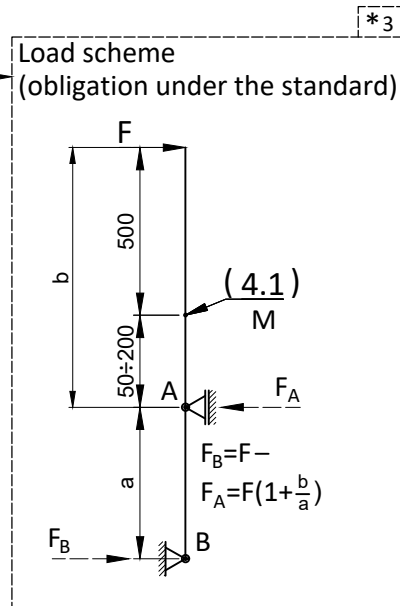
Basic technical characteristics:

- * **Safe** = compliant with the requirements of the EN 14384 standard = **CE**
- * **Purpose:** Taking water from underground pipelines for fire fighting and communal needs
- * See "Procurement data" P1/2
- * **Flow:** $K_v = 278 \text{ m}^3/\text{h}$, for $D_i = 2 \times 65$
- * **Activation moment MOT:** max. 55Nm, (Class 1)
- * **Breaking force** $F = 1350 \text{ daN}$
- * **Foundation**
- * **Weight** $\sim (57 \div 94) \text{ daN}$ for $H_i (1350 \div 1850) \text{ mm}$
- * **Materials:**
 - hydrant body castings nodular cast,
 - cap, and output couplings aluminium,
 - sealants polypropylene/elastomers,
 - pipe of body, spindle, and obturator seat stainless steel,



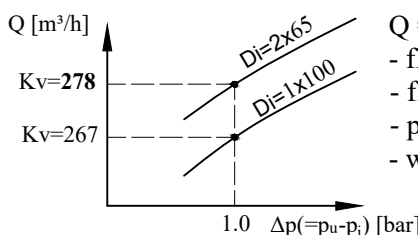
Advantages:

- * **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:** ($K_v = 278 \text{ m}^3/\text{h}$; for $D_i = 2 \times 65$); minor 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 < 55 Nm) longer service life.
- * **Possibility of blocking (6) unauthorized use.**
- * **High reliability of closing reliability;** impermeability even after 1000 closures.
- * **Outlet 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:

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



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

- flow $Q \text{ [m}^3/\text{h]}$
- flow coefficient $K_v \text{ [m}^3/\text{h]}$
- pressure difference $\Delta p \text{ [bar]}$
- water density $\rho \text{ [kg/m}^3]$