



# PILLAR FIRE HYDRANT type NH3

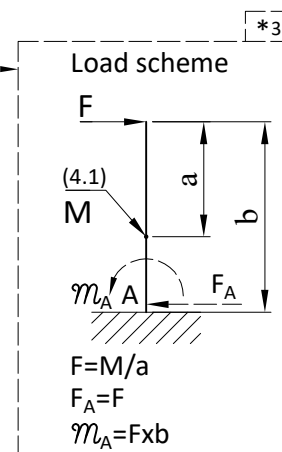
<Two in one = hydrant + isolating pre-valve>

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

<great flow ( $K_v = 540 \text{ m}^3/\text{h}$ )=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" L1/2**
- \* **Flow:**  $K_v = 540 \text{ m}^3/\text{h}$ , for  $D_i = 2 \times 60$  .....
- \* **Moment of activation Mot:** max 60Nm, (Class 1)
- \* **Moment of breakage** (at place 4.1) due to force F .....  $M \approx 12500 \text{ Nm}$
- \* **foundation** .....
- \* **weight** .....  $\sim (92 \div 108) \text{ daN}$  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



## Advantage:

- \* 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 in the case when the main valve (3) is broken.
- \* **Large flow:** ( $K_v = 540 \text{ m}^3/\text{h}$ , for  $D_i = 2 \times 100$ ); minor fire damage.
- \* **The possibility of using** a hydrant (drainage drain closed) **at a flow rate of (20÷100)%**.
- \* **Prevented damage to the supply pipeline = breakage at point 4.1**, due to force F.
- \* **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 < 60 Nm) longer service life.
- \* **High reliability of closing:** tightness even after 1000 closings.
- \* **High reliability of the drainage system** = two outlet openings, self-flushing drainage valve.
- \* **High strength** of the closure and hydrant body,  $M_sT > 250 \text{ Nm}$ .
- \* **Very easy hydrant maintenance:**
  - Replacing the main valve seal (3) ; without digging up the ground and without disassembling the body (4).
  - The threaded part of the closure is outside the flow of water, permanently lubricated, maintenance-free throughout its 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.
  - Easy replacement of the seat of the 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,
- \* Instruction for safety work (installation, handling, inspection, maintenance, guarantee)

