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## **PILLAR FIRE HYDRANT type NH3**

<Two in one = hydrant + isolating pre-valve> <Double reliability = use even when main valve is defective> <High flow:  $K_V = 540 \text{ m}^3/\text{h}$ >

## **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:  $Kv = 540m^3/h$ , for Di = 2x100
- \* Moment of activation Mot: max 60Nm, (Class 1)
- \* Moment of breakage (at place 4.1) due to force F ..... M≈12500 Nm
- \* foundation ..... \* weight .....~ ~ (92÷108) daN for Hi (1350÷1850) mm
- \* materials:
  - hydrant body .....nodular cast / stainless steel
  - cap, and outlet couplings.....aluminium
  - spindle and obturator seat .....stainless steel
  - 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=540m/h, for Di = 2x100
- \* Replacing the main valve seal(3): without digging up the ground and without disassembling the body,(4)
- \* The threaded part of the obturator is: outside the flow of water, 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,
- \* Great strength of the obturator and the body of the hydrant, MsT > 250 Nm,
- \* Easy activation: Class 1, MOT < 60 Nm (max allowed 195 Nm; Class 3),

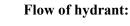
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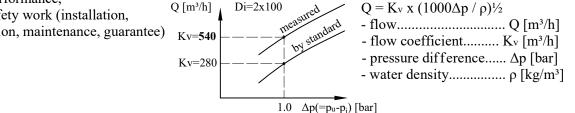
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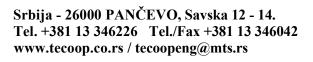
- \* High reliability of the drainage system = two outlet openings, and self-flushing drainage valve
- \* The possibility (7) of easy control of the correctness of closing and draining
- \* Obturator tightness even after 1000 activations,
- \* Amount of residual water in the hydrant body, < 135 cm<sup>3</sup> (max. allowed 200 cm<sup>3</sup>),
- \* Fast draining,  $\leq 7 \text{ min}$  (permitted max. 10 min/m),
- \* Easy replacement of seat, main valve (3) and pre-valve (2)
- \* Drain valve repair (10.1); from the outside, partial excavation, and without dismantling the hydrant body.(4)

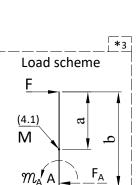
## Documents with the delivery of hydrant:

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









F=M/a  $F_A = F$ 

 $\mathcal{M}_A = Fxb$ 

