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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 bodynodular cast / stainless steel
 - cap, and outlet couplings.....aluminium
 - spindle and obturator seatstainless 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),

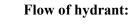
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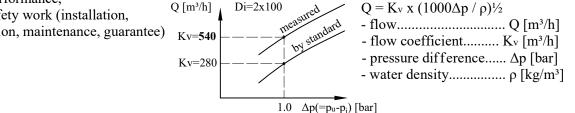
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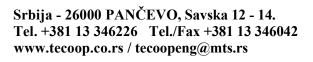
- * High reliability of the drainage system = two outlet openings, and self-flushing drainage valve
- * The possibility (7) of easy control of the correctness of closing and draining
- * Obturator tightness even after 1000 activations,
- * Amount of residual water in the hydrant body, < 135 cm³ (max. allowed 200 cm³),
- * 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)

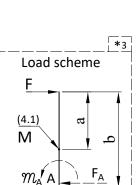
Documents with the delivery of hydrant:

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









F=M/a $F_A = F$

 $\mathcal{M}_A = Fxb$

