

<high flow: $K_V = 265 \text{ m}^3/\text{h}$ >


TECOOP - ENG D.O.O
 INDUSTRIJSKI INŽENJERING

PILLAR FIRE HYDRANT type NH2

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

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

<high flow: $K_v = 265 \text{ m}^3/\text{h}$ >

Basic technical characteristics:

*Safe = complies 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: $K_v=265 \text{ m}^3/\text{h}$, for $D_i = 2 \times 65$

*moment of activation M_{ot} : max 45Nm, (Class 1)

*moment of breakage (at point 4.1) due to force F $M=7500 \text{ Nm}$

*foundation
*weight..... $\sim (85 \div 92) \text{ daN}$ for $H_i (1350 \div 1850) \text{ mm}$

*materials:

-hydrant body..... nodular cast /stainless steel

-cap, and output couplings..... aluminium

-sealants..... polypropylene/elastomers

-spindle, and obturator seat..... stainless steel

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.

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*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 during its entire 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,

*Easy activation: class 1, $MOT < 45 \text{ Nm}$ (max allowed 130 Nm, class 3),

*High closing reliability: sealing of the closure even after 1000 closures.

*High reliability of the drainage system = two outlet openings, and self-flushing drainage valve

*Great strength of the obturator and the body of the hydrant, $M_{sT} > 250 \text{ Nm}$

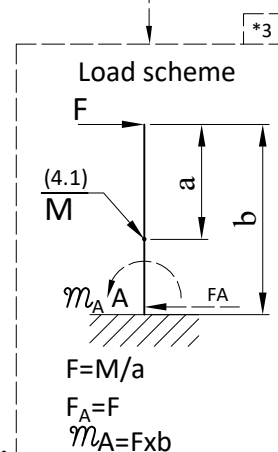
*The possibility (7) of easy control of the correctness of closing and draining the hydrant,

*The amount of residual water in the hydrant body, $< 80 \text{ cm}^3$ (max. allowed 150 cm^3),

*Fast drainage $\leq 5 \text{ min}$ (max. allowed 10 min/m),

*Easy replacement of the seat, main valve (3) and pre-valve (2)

*Repair of the drainage valve (10.1), outside, partial excavation, and without dismantling the hydrant body.(4)

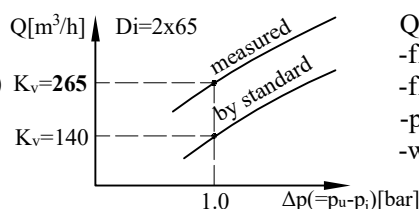


Documents with the delivery of hydrant:

*Declaration of Performance

*Instruction for safety work (installation, handling, inspection, maintenance, guarantee)

Flow of hydrant:



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

-flow..... $Q \text{ [m}^3/\text{h]}$

-flow ratio..... $K_v \text{ [m}^3/\text{h]}$

-pressure difference..... $\Delta p \text{ [bar]}$

-water density..... $\rho \text{ [kg/m}^3]$