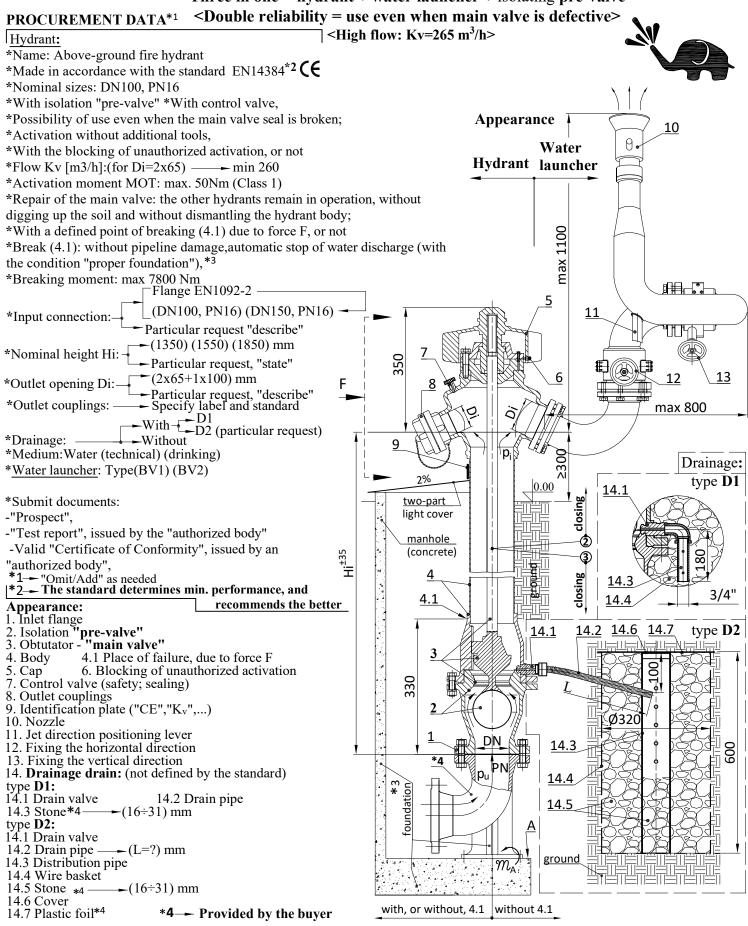


## **MONITOR type MNH2**

No. 07.23/10.4.1

<Three in one = hydrant + water launcher + isolating pre-valve>





Srbija - 26000 PANČEVO, Savska 12 - 14. Tel. +381 13 346226 Tel./Fax +381 13 346042 www.tecoop.co.rs / tecoopeng@mts.rs



## **MONITOR type MNH2**

<Three in one = hydrant + water launcher + isolating pre-valve> <Double reliability = use even when main valve is defective> <High flow: Kv=265 m<sup>3</sup>/h>



F=M/a

 $m_{A}$ =Fxb

 $F_A = F$ 

#### **Basic technical characteristics:**

Water launcher:

Load scheme

(4.1)

* Safe = compliant with the requirements of the standard EN 14384	<b>4</b> = <b>C∈</b>	type BV 1	type BV 2
* See "Procurement data" L1/2  * flow: Kv= 265 m <sup>3</sup> /h, for Di = 2x65  * moment of activation Mot<45 Nm, Class 1	- nominal openingsDi = 65 mmDi = 100 mm - nominal pressurePN 16 bar - choice of jet shape		
* moment of breakage (at point 4.1) due to force F M=7500 Nm  * foundation  * weight			
- hydrant bodynodular cast / stainless steel - spindle and obturator seatstainless steel - sealantspolypropylene/elastomers - cap, and outlet couplingsaluminium	- nozzle	ts	aluminium

#### **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:  $Kv=265 \text{ m}^3/\text{h}$ , for Di=2x65

**Hydrant:** 

- \* Replacing the main valve seal(3): without digging up the ground and without disassembling the body(4),
- \* The threaded part of the obturator is: out of the water flow, 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,
- \* High strength of the obturator and body of the hydrant, MsT > 250 Nm,
- \* Easy activation: Class 1, MOT < 45 Nm (max allowed 130 Nm; Class 3),
- \* Quick activation: 1 turn until water appears, 10 turns until maximum flow (max. 15 turns allowed),
- \* 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 body of the hydrant, < 80 cm<sup>3</sup> (max. allowed 150 cm<sup>3</sup>),
- \* Fast draining, ≤5 min (permitted max. 10 min/m),
- \* Easy replacement of seat, main valve (3) and pre-valve (2)
- \* Drain valve repair (14.1); 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) Kv=265

# $Q [m^3/h]$ Kv=140 1.0 $\Delta p(=p_u-p_i)$ [bar]

### Flow of hydrant:

 $Q = K_v \times (1000\Delta p / \rho)^{1/2}$ - flow...... Q [m<sup>3</sup>/h] - flow coefficient..... K<sub>V</sub> [m<sup>3</sup>/h] - pressure difference..... Δp [bar]

- water density......  $\rho$  [kg/m<sup>3</sup>]



Srbija - 26000 PANČEVO, Savska 12 - 14. Tel. +381 13 346226 Tel./Fax +381 13 346042 www.tecoop.co.rs / tecoopeng@mts.rs