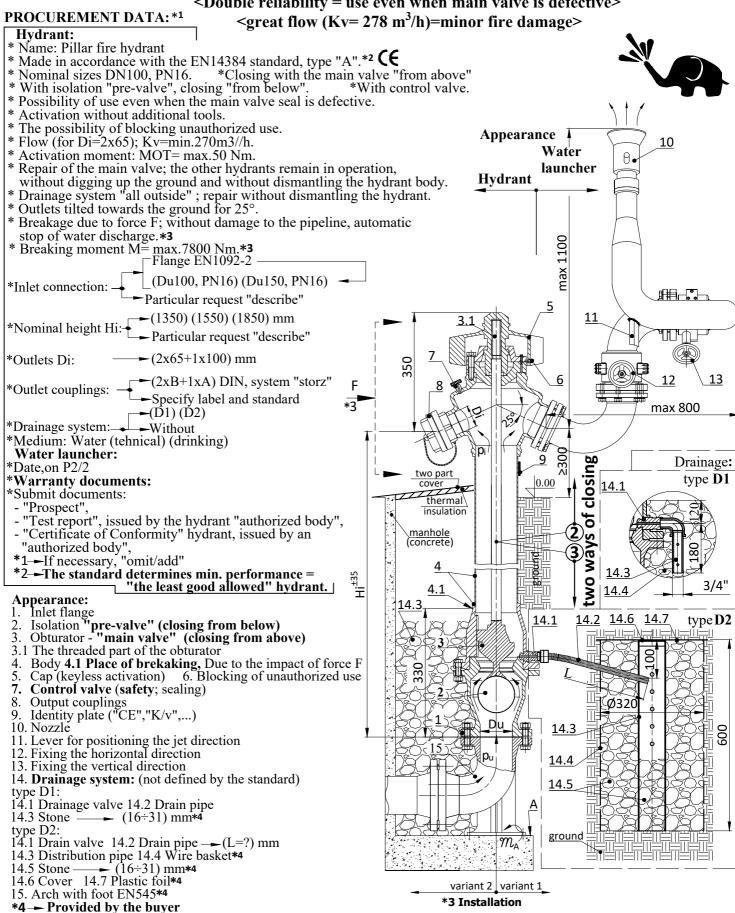


MONITOR type MNH2

No. 07.23/10.4.1 P 1/2

<Three in one = hydrant + water launcher + isolating pre-valve>
<Double reliability = use even when main valve is defective>





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> <great flow (Kv= 278 m³/h)=minor fire damage>



F=M/a

 m_A =Fxb

 $F_A = F$

Basic technical characteristics:

Water launcher:

* Safe = compliant with the requirements of the standard EN 14384 =	type BV 1	type BV 2
* See "Procurement data" P1/2		
* Flow: $Kv = 278 \text{ m}^3/\text{h}$, for Di = 2x65	- nominal openings Di = 65 mm	$Di = 100 \text{ mm}$
* Moment of activation MOT<45 Nm, (Class 1)	- nominal pressure	$PN = 16$ bar
* Moment of breakage (at point 4.1) due to force F M=7500 Nm	- choice of jet shape	
* Foundation	- choice of jet directionvertical	llv / horizontallv

* Weight $\sim (75 \div 92)$ daN for Hi $(1350 \div 1850)$ mm

Hydrant: type NH2

* Materials:

- hydrant body castings nodular cast

- cap, and output couplings aluminium

- pipe of body, spindle, and obtutator seat stainless steel

- nominal pressure PN = 16 bar		
- choice of jet shape		
- choice of jet directionvertically / horizontally		
- fixing the selected jet position		
- weight		
- materials:		
- body steel		

- sealants elastomers Load scheme

F

(4.1)

- nozzle......aluminium

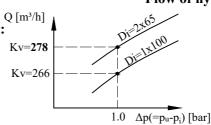
Advantage:

- * Two ways of use = double reliability:
 - closing with the main valve (3), from above (regular work),
 - closing with a pre-valve (2), from below (extraordinary work),
- * Isolation pre-valve (2) inside the hydrant, automatic, self-blocking, which enables:
 - the use of a hydrant even the main valve (3) is malfuction.
 - 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,
- * Large flow: (Kv = 278 m^3 //h, for Di = 2×65); less fire damage.
- * Control valve (7) = great safety of the executor, prevention of hydrant freezing.
- * Prevented damage to the supply pipeline = breakage at point 4.1, due to force F.
- * Activation without additional tools, by turning the cap (5).
- * Easy activation: (class 1, MOT < 45 Nm) longer service life.
- * Possibility of blocking (6) unauthorized use.
- * High reliability of closing: impermeability even after 1000 closings.
- * Outlets tilted (25°) down, longer service life of fire hoses.
- * The main valve seal is conical, self-flushing = dirt retention prevented = longer service life.
- * Very easy hydrant maintenance:
 - Replacing the main valve seal (3); without digging up the ground and without dismantling the body (4).
 - The threaded part of the closure (3.1) is outside the flow of water, permanently lubricated, maintenance-free throughout it's 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.
- * Long warranty period 5 years.
- * Probably the best, and the most economical hydrant available.

Flow of hydrant:

Documents accompanying the delivery of hydrant:

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



 $Q = K_v \times (1000\Delta p / \rho)^{1/2}$ - flow...... Q [m³/h] - flow coefficient..... K_v [m³/h]

- pressure difference..... Δp [bar]

- water density...... ρ [kg/m³]



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