PILLAR FIRE HYDRANT type NH2

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

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

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

PROCUREMENT DATA:*1

*Name: Overhead fire hydrant.
*Made in accordance with the SRPS EN14384 standard.*2 CE
*Nominal sizes: DN100, PN16.
*With isolation "pre-valve" *With control valve.
*Possibility of use even when the main valve seal is broken.
*Activation without additional tool.
*The possibility of blocking unauthorized use.
*Flow (for Di=2x65): Kv=min 270m3//h.
*Activation moment: MOT= max. 50Nm (Class 1).
*Repair of the main valve: the other hydrants remain in operation, without digging up the ground and without dismantling the hydrant body.
*Drainage drain closed already at 20% opening stroke.
*Drainage drain repair: outside, without dismantling the hydrant.
*With a defined place of breakage due to impact, in the underground part.*3
* Fracture; without damage to the pipeline, automatic stop of water discharge.
*Breaking moment M= max 7800 Nm.*3

*Input connection: Flange EN1092-2 (Du100, PN16) (Du150, PN16) / Particular request, "describe"
*Nominal height Hi: (1350) (1550) (1850) mm / Particular request, "describe"
*Outlet opening Di: (2x65+1x100) mm / Particular request, "describe"
*Outlet couplings: Specify label and standard
*Drainage: With D1 / D2(particular request) / Without
*Medium:Water: Technical / Drinking
*Colors of external surfaces:
- overhead part (not pipe): red / special request
- underground part: black
*Submit documents:
-"Prospect",
-"Test report", issued by the "authorized body",
-Valid "Certificate of Conformity", issued by an "authorized body",

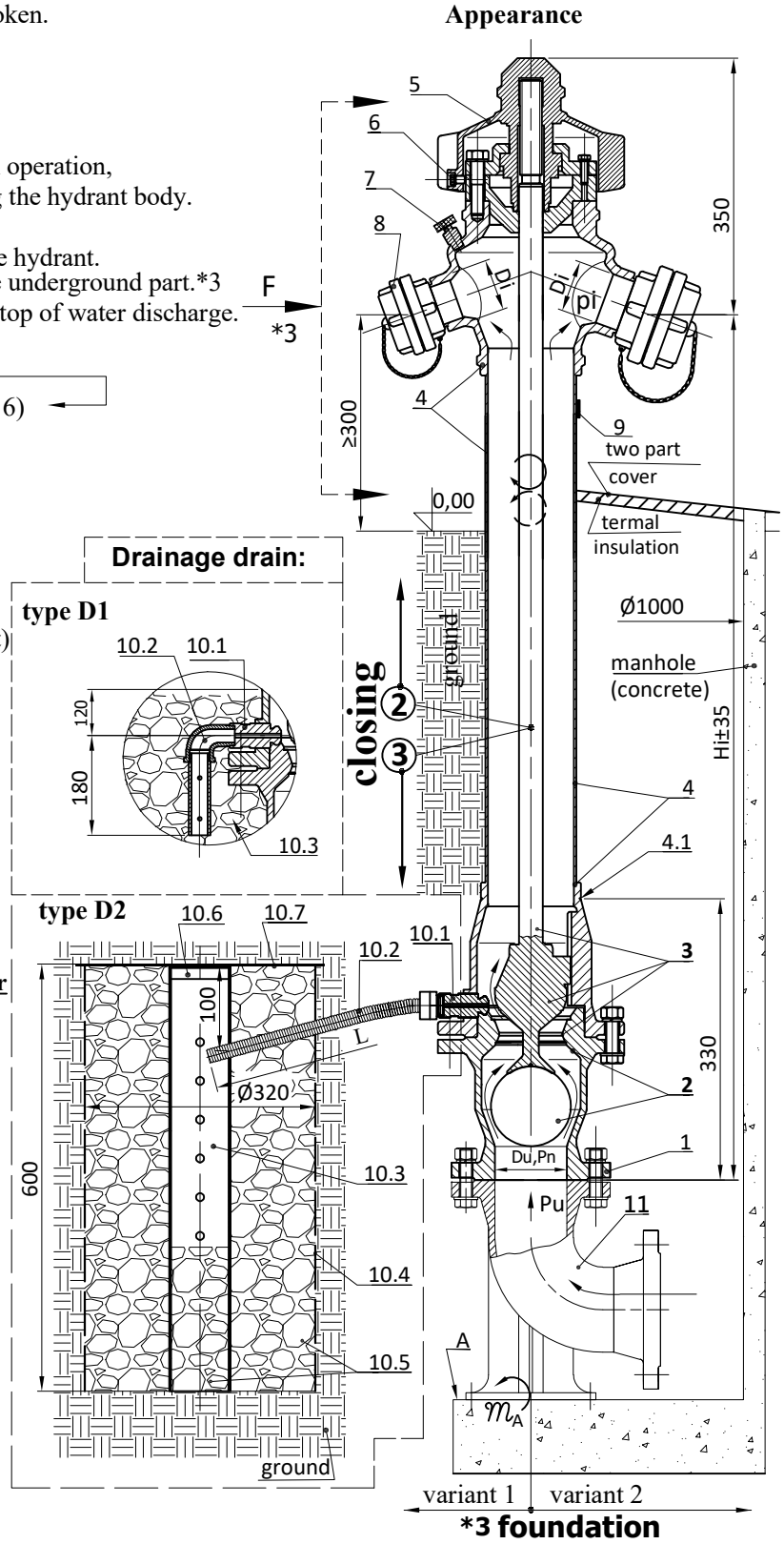
***1** → "Omit/Add" as needed
***2** → **The standard determines min. performance, and recommends the better**

Appearance:

1.Inlet flange 2. Isolation **"pre-valve"**
3. Obturator - **"main valve"**
4. Body **4.1 Place of breakage**, Due to the impact of force F
5. Cap 6.Blocking of unauthorized use
7. Control valve (safety; sealing)
8. Outlet couplings
9. Identification plate ("CE", "K_v", ...)
10. **Drainage drain:** (not defined by the standard)
type **D1**:
10.1 Drain valve 10.2 Drain pipe
10.3 Stone → (16÷31)mm***4**
type **D2**:
10.1 Drainage valve 10.2 Drain pipe → (L=?) mm
10.3 Distribution pipe 10.4 Wire basket
10.5 Stone → (16÷31) mm***4**
10.6 Cover 10.7 Plastic foil
11. Arch with foot EN545***4**

***4** → **Provided by the buyer**

Appearance



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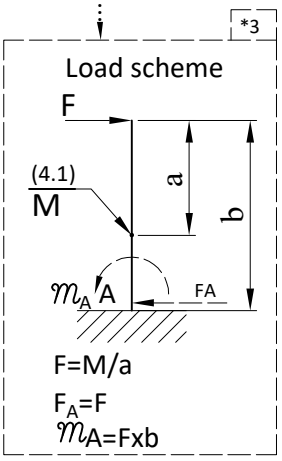
PILLAR FIRE HYDRANT type NH2
<Two in one = hydrant + isolating pre-valve>
<Double reliability = use even when main valve is defective>
<great flow (Kv= 278 m^3/h)=minor fire damage>

Basic technical characteristics:

***Safe =** complies with the **requirements of the standard EN 14384 =** CE
***Purpose: Useing water** from underground pipelines **for fire fighting and communal needs**
*** → See "Procurement Data" L1/2**
***Flow:Kv=278m^3/h, for Di = 2x65** ·····
***moment of activation Mot: max 45Nm, (Class 1)**
***moment of breakage** (at point 4.1) due to force F..... M=7500 Nm
***foundation** .....
***weight**..... ~(65÷76) daN for Hi (1350÷1850) mm
***materials:**
-hydrant body castings..... nodular cast
-cap, and output couplings..... aluminium
-sealants.....polypropylene/elastomers
-pipe of body, spindle, and obtutator seat..... stainless steel

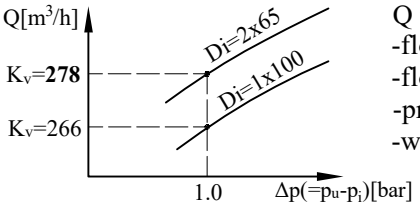


Advantage:

* Isolation **pre-valve** (2) **inside the hydrant**, automatic, self-blocking, **which enables**:
  - **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**,
  - **the use of a hydrant even in the case when the main valve (3) is broken.**
* **Large flow: (Kv = 278 m3//h**, for Di = 2 x 65); **minor fire damage.**
* **The possibility of using** a hydrant (drainage drain closed) **at a flow rate of (20÷100)%.**
* **Prevented damage to the supply pipeline = breakage at point 4.1**, due to force F.
* **Activation without additional tools**, by turning the cap (5).
* **Possibility of blocking (6) unauthorized use.**
* **Possibility to control (7) the correctness of the** drainage and main valve**, greater operator safety.**
* **Easy activation: (class 1, MOT < 45 Nm) longer service life**.
* **High reliability of closing**: tightness even after 1000 closings.
* **High reliability** of the drainage system = two outlet openings, **self-flushing drainage valve**.
* **High strength** of the closure and hydrant body, MsT > 250 Nm.
* **Very easy hydrant maintenance**:
  - **Replacing the main valve seal (3)** ; **without digging up the ground and without disassembling the body (4).**
  - **The threaded part of the closure** is outside the flow of water, **permanently lubricated maintenance-free** throughout its 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**.
  - **Easy replacement of the seat** of the main valve (3) and pre-valve (2).
  - **The main valve seal is conical, self-flushing** = dirt retention prevented = **longer service life.**

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 [m^3/h]
-flow coefficient.....K_v [m^3/h]
-pressure difference.....Δp [bar]
-water density..... ρ [kg/m^3]

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