

# ABOVEGROUND HYDRANT

## 1 CHARACTERISTICS AND BENEFITS

- Above-ground hydrant for potable water For quick use in case of fires and temporary connecting of pipe network
- Type A – unbreakable, type C – breakable construction
- Single closing (AU)
- Outlets for connecting fireman hosepipe: 1B+2C/1A+2B/2B
- Hydrant head from ductile iron – resistant to high temperature
- Direction of closure clockwise; 4 dead out of 10 turns
- Resistant to disinfection
- Fixation of couplings with aluminium nuts – to avoid corrosion
- Inner stem rod from whole material – no bacteria growth
- Light weight of the hydrant enables quick and simple installation
- Hydrant head fixation on any position (360°) after installation
- Ramp for piston orientation during assembly or replacement – simpler maintenance
- Terminal stoppers prevent damages due to eventual use of excessive force during opening/closing
- Closing in the upward direction without terminal stopper on the sealing seat – less possibility for piston damage
- Good hydraulic characteristics
- No need to dig out the hydrant in case of replacement
- Drain integrated in the valve body – no corrosion on the threads
- All uncoloured parts from rust-resistant materials
- Epoxy colour coating in RAL 5005, hydrant head additional coated with UV resistant colour RAL 3000

## 2 STANDARDS

- Hydrants manufactured & tested in acc. to EN 14384, EN 1074-6
- Acc. to European construction products regulation 305/2011/EU (CPR)
- Ductile iron acc. to z EN 1563-3
- Stem out of W.Nr. 1.4021 acc. to EN 10088
- Flanges acc. to EN 1092-2 PN 10/16
- Outlets for connecting fire hose acc. to DIN 14317 (C), 14318 (B), 14319 (A)
- Operating cap acc. to DIN 3223
- Final strength and tightness test acc. to EN 12266-1
- Corrosion protection acc. to DIN 30677-2 and EN 14901
- Sealing elements for drinking water acc. to EN 681
- Microbiological suitability acc. to EN 16421 (W270)

## 2 APPROVALS

- UBA, W270, KTW, ACS WRAS, Belgaqua for EPDM sealing elements and Epoxy coating
- GSK – RAL GZ-662/2 for corrosion protection
- CE mark
- DVGW certificate for the German market
- ÖVGW certificate for the Austrian market
- CNBOP conformity for the Polish market
- VIK for the Croatian market

### ART. 2018L

DN 80, 100



### ON DEMAND

#### POSSIBLE ADDITIONS

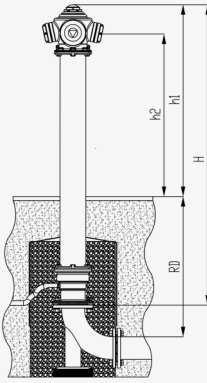
- Stand pipe and screw material: A4
- Hand wheel for tunnels
- Other mounting depths
- Drainage protection box
- Hydrant key
- Other outlets

#### SPARE PARTS

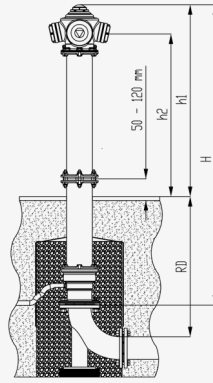
- Set 1: Gasket and screw material
- Set 2: Piston and gasket
- Set 3: Upper hydrant part

PN	16
<b>Max. operating pressure</b> [bar]	16
<b>Max. operating temperature for neutral liquids</b> [°C]	60
<b>Shell strength and tightness:</b> test with water, rate A [bar]	25
<b>Seat tightness:</b> test with water, rate A [bar]	17,6

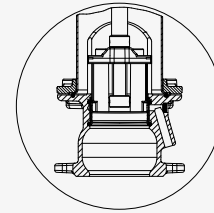
TECHNICAL DRAWINGS



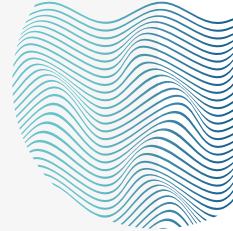
TYPE A – UNBREAKABLE CONSTRUCTION



TYPE C – BREAKABLE CONSTRUCTION



AU – SINGLE CLOSING



DATA

DN	DIMENSIONS [mm]				FLANGE CONNECTIONS [mm]				WEIGHT [kg]		OPERATING LOADS [Nm]		DRAINAGE	
	Mounting depth – RD	H	h1	h2	D	DK	n	d	A	C	MOT	MST	Residual volume [ml]	Drainage time [min/m]
80	750	1550	995	828	200	160	8	19	33.5	35.5	105	260	18	2.4
	1000	1800							36	38				
	1250	2050							38.5	40.5				
	1500	2300							41	43				
100	750	1550	995	828	220	180	8	19	34.3	36.3	130	260	20	2.3
	1000	1800							36.8	38.8				
	1250	2050							39.3	41.3				
	1500	2300							41.8	43.8				

FLOW – Kv value DN80/DN100 [m³/h], RD 1500

Outlet	Kv measured [m³/h]		min Kv – EN 14384	min Kv – DVGW
	head 2B	head 1B + 2C		
1 x A			160	
1 x B	134	143	80	110
1 x C	---	84	40	---
2 x B	143	---	140	140
2 x C	---	120	60	---

MATERIALS

	BASIC VERSION	SPECIAL VERSIONS ON DEMAND (differences from basic version)
Pipe	W.No. 1.4301	1.4571
Valve	EN GJS-400-15	
Stem rod	W.No. 1.4021	1.4571
Terminal stoppers	A2	CW307G
Piston	EN GJS-400-15 / EPDM	PUR
Bearing	Al	
Head	EN-GJS-400-15	
Head cover, operating cap	Al	
Coupling	Al	1.4301 / 1.4401
Screw material	A2	A4
Sealing material	EPDM	
Epoxy coating valve	RAL 5005 min. 250 µm	Min. 300 µm
Additional UV resistant coating head	RAL 3000 min. 80 µm	