UNDERGROUND HYDRANT

1 CHARACTERISTICS AND BENEFITS

- Underground hydrant for potable water - for quick use in case of fires and temporary connecting of pipe network
- All materials suitable for potable water
- Enables quick and simple handling in emergency
- Single (AU) or double (AUD) closing
- Drain integrated in the valve body – no plastic elbows
- Connection to a pipeline network with an N or FF piece
- Direction of closure clockwise; 3 dead out of 8 turns
- Resistant to disinfection
- Automatic drainage
- Inner stem rod from whole material – to prevent growth of bacteria
- Stainless steel seat - maintenance free
- Sealing construction enables self-cleaning of the sealing area
- Terminal stoppers prevent damages due to eventual use of excessive force during opening/closing
- Light weight of the hydrant enables quick and simple installation
- Good hydraulic characteristics
- No need to dig out the hydrant in case of replacement of damaged parts
- Epoxy powder coating in RAL 5005

2 STANDARDS

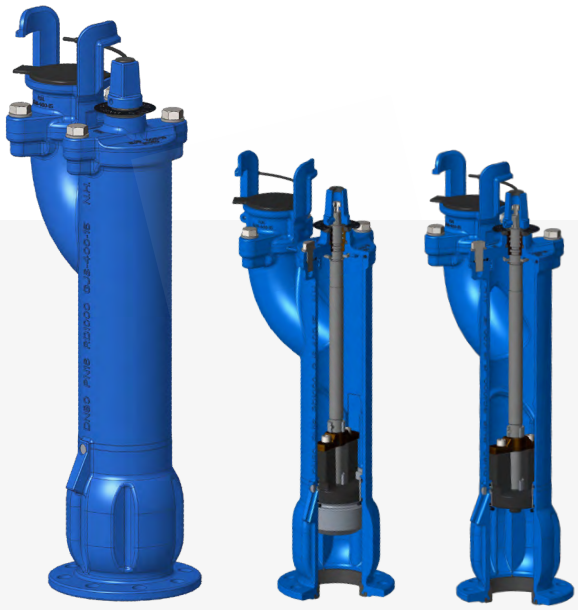
- Hydrants manufactured and tested in acc. to EN 14339, EN 1074-6
- Acc. to European construction products regulation 305/2011/EU (CPR)
- Ductile iron acc. to EN 1563-3
- Stem out of W.Nr. 1.4021 acc. to EN 10088
- Flanges acc. to EN 1092-2 PN 10/16
- Outlet for connecting fire hose acc. to DIN 3221
- 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)

3 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

ART. 2016 AU/AUD

DN 80, DN 100



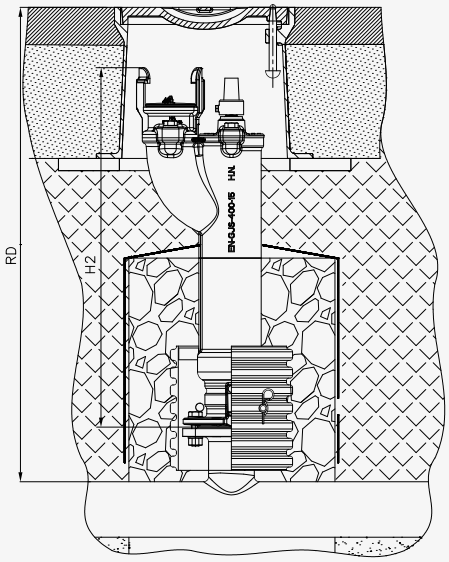
ON DEMAND

POSSIBLE ADDITIONS

- Different outflow cover versions
- Drainage protection shell
- Hydrant T-key
- N & FF piece
- Reduce flanges

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

TECHNICAL DRAWING



DATA

DN		80/100			
Mounting depth - RD		750	1000	1250	1500
H2		508	738	988	1238
Flange connections	D DN 80/100	200 / 220			
	DK DN 80/100	160 / 180			
	n	8			
	d	19			
Weight DN 80/100 [kg]		22 / 25	27 / 30	32 / 35	38 / 39
Operating loads [Nm]	MOT	105			
	MST	250			
Drainage	Residual volume [ml]	10			
	Drainage time [s/m]	190			
Kv value DN 80/100 [m³/h]	Kv measured	150	145	140	134
	min Kv EN14339/DVGWVP325		60		110

MATERIALS

	BASIC VERSION	SPECIAL VERSIONS ON DEMAND (differences from basic version)
Body	EN GJS-400-15	
Seal ring	W.No. 1.4301	W.No. 1.4404
Operating cap	EN GJS-400-15 / RAL 5005	
Outflow cover	EPDM	
Outlet bonnet	EN GJS-400-15	
Spindle	W.No. 1.4021	1.4571
Piston	EN GJS-400-15 / EPDM	PUR
Terminal stoppers	A2	CW307G
Screw material	A2	A4
Sealing material	EPDM	
Epoxy coating	RAL 5005 min. 250 µm	Min. 300 µm