

MADE BY KEULAHUETTE

Hydrants





Hydrants

Made of ductile cast iron (SGCI)



Introduction

Hydrants made by Keulahütte GmbH in Krauschwitz are manufactured based on many years of design and development work and a high level of engineering expertise.

Main and supplementary shut-off valves and double shut-off device are of modular design. This serves to optimise provision and storage of spare parts and to make maintenance simple and efficient. Thanks to the double shut-off device, users of our products can go without an additional upstream gate valve. Maintenance work can thus be carried out on the hydrant without the need to shut off an entire pipeline section. All hydrant models with double shut-off device are fitted with shut-off ball valves. All offered coating options provide reliable long-term corrosion protection. All parts of the hydrants which may be under pressure are made of EN-GJS-400-15, so that the weight of the hydrants is reduced and they have a lean look. Thanks to the patented predetermined breaking point, neither the lower part of the hydrant nor the water pipeline can be damaged when external force is applied. The broken unit can be repaired easily without the need to remove the shut-off valve and fittings, but simply by replacing the rupture ring. The hydrants are designed such that remnant water cannot collect and that there are no cavities with stagnant water. This is to prevent damage caused by frost and impairment of the drinking water quality. The vertical dry barrel prevents ingrowing roots.

Hydrants have the following functions in the water supply network:

- Supply of water for fire fighting
- Aerating and bleeding of water pipelines
- Flushing the pipeline network for hygienic reasons
- Provision of temporary and emergency water supply points, bridging defective pipe sections, filling of tank trucks.
- Hydrants are typically provided at the following distances: Rural communities: approx. 140 m, urban and sub-urban residential areas: approx. 120 m, city centres and business districts: approx. 100 m.

Hydrants are no control valves. They only have two positions, 'open' and 'closed'. The valves shall be fully opened or fully closed, i.e. until you clearly notice a mechanical stop. The rated performance of our hydrants exceeds the reference values as required by DVGW. The flow rate depends on the line pressure and on any downstream valves, fittings and pipes. Given a pressure drop of 1 bar, measured immediately upstream and downstream of the hydrant, the minimum flow rate specified in DIN EN 14384 and DIN EN 14339 is exceeded.

Information for project planning and installation

An important point here is the pipeline coverage or installation depth. It must be ensured that there is no damage caused by frost.

When installing the hydrants it is recommended to follow the fitting instructions which are provided in an adhesive pocket with each unit.

Observing the specified dimensions forms a prerequisite for proper function of the hydrant. Proper drainage of remnant water shall be ensured by embedding the base of the hydrant in suitable material.

Hydrants comply with standards DIN EN 14384 and DIN EN 14339 and are tested in accordance with DIN EN 1074-1/2/6 and DIN EN 12266-1. Each hydrant has an ID number. A works certificate with testing results can be issued on request.

Underground hydrants



Keuladrant Model 97 F

DN 80/PN 16; according to DIN EN 14339 (previously DIN 3221) and DIN EN 1074-6

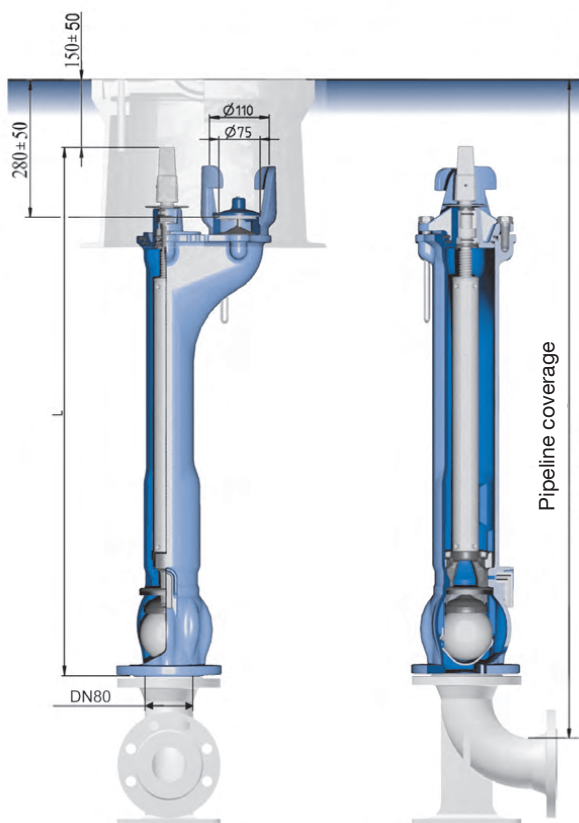
Type A1 – with single shut-off device

Type AD1 – with double shut-off device



Specifications

- DIN-DVGW-NW-6401AS2087
- CE approval no. according to DIN EN 14339: E-30-00265-07
- Flange connection according to DIN EN 1092-2, PN 16
- DN 80 connection claw for standpipe according to DIN 14375, PN 16
- Additional marking:
 - Pipeline coverage by notches on the upper jacket pipe flange (see table below)
 - Type of shut-off device by colour coding of type plate and claw cap (yellow: single shut-off device, red: double shut-off device)
- Extremely low actuating torque (fully encapsulated, maintenance-free stem bearing)
- Opening starts already after 2–3 turns, full flow after 10–11 turns
- Easy installation thanks to ample assembly space and integrated gasket at the connection flange
- Integrated ejection lock
- Protection against ingress of contamination thanks to integrated venous valve
- Reversible-flow cleaning at full capacity (ball retainer: V4A stainless steel spring)
- No metallic surfaces which would be susceptible to caking in the drainage section
- Advantages of the drainage:
 - Protection against the ingress of foreign particles thanks to cross-section enlargement in the flow direction
 - Complete drainage takes about 3 minutes, volume of remnant water < 15 ml



Minimum volumetric flow rate KV = 110 m³/h

The indicated flow rate applies to a fully opened hydrant at a pressure drop of 1 bar, measured immediately upstream and downstream of the hydrant.

Type	DN	Pipeline coverage Rd in m	Number of notches	Length in mm L	Weight in kg
A1	80	0.75	1	520	24.0
		1.00	2	725	26.5
		1.25	3	975	31.5
		1.50	4	1225	36.5
AD1	80	0.75	1	520	24.5
		1.00	2	725	27.0
		1.25	3	975	32.0
		1.50	4	1225	37.0

Underground hydrants



Keuladrant Model 97 F

DN 80/PN 16; according to DIN EN 14339 (previously DIN 3221) and DIN EN 1074-6

Type A1 – with single shut-off device

Type AD1 – with double shut-off device



Surface protection

- Jacket pipe: internal and external epoxy resin powder coating, according to DIN 3476, minimum layer thickness of 250 µm or fully enamelled inside according to DIN 51178 and external epoxy resin powder coating
- Claw and lid: all-round epoxy resin powder coating
- Colour: sky blue (RAL 5015)
- Layer thickness min. 300 µm according to DIN 3476

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Jacket pipe	EN-GJS-400-15
Cover lid	EN-GJS-400-15
Cone, rubber coated	EN-GJS-400-15, EPDM W 270
Stem	X20Cr13V
Stem screw nut	Brass
Extension pipe	X5CrNi1810
Retaining spring	X12CrNi177
Claw	EN-GJS-400-15
Seat ring	Brass
Square cap	EN-GJS-400-15 galvanised
O-rings	EPDM W 270
Wiping ring	EPDM
Bolts and pins	Stainless steel

Option

Keuladrant Model 97 F

with self-closing lid “Keuladrant SF”

Specification

- Self-closing claw lid (SF: schließfix – quick-shut)
- Material: 1.4301 (V2A), V4A possible on request
- Fixture: hexagon head bolt at the claw

Handling

- Self-closing lid can be opened with the hydrant wrench (no additional tools required)
- The lid will close the hydrant shaft automatically when the standpipe is removed.



Underground hydrants



Model 02

DN 100/PN 16; according to DIN EN 14339 (previously DIN 3221) and DIN EN 1074-6

Type AD1 – with double shut-off device

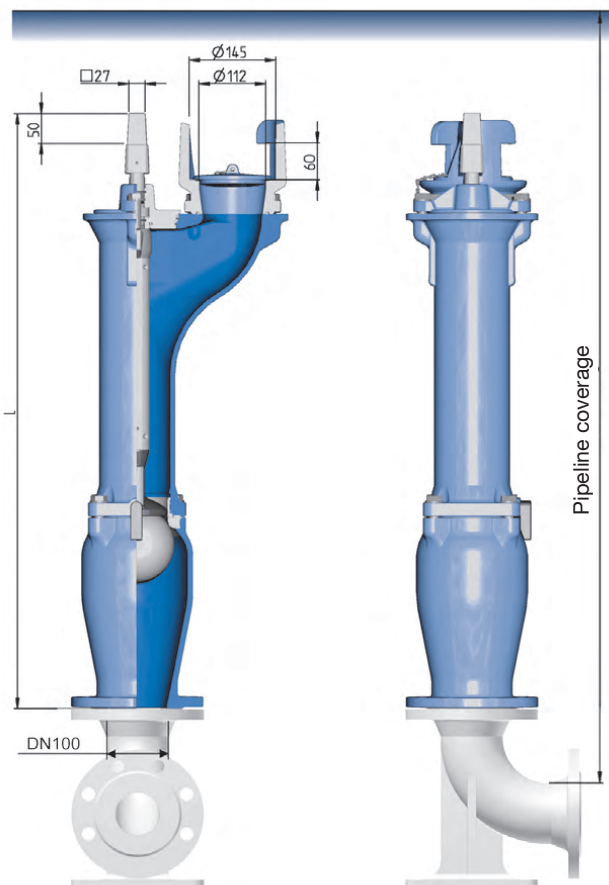


Specifications

- DIN DVGW conformity mark for AD1: NW-6401BN0341
- Flange connection according to DIN EN 1092-2, PN 16
- Connection claw as shown or with DN 80 adapter for standpipe according to DIN 14375, PN 16
- Additional marking:
 - Pipeline coverage by notches on the upper jacket pipe flange (see table below)
 - Type of shut-off device by colour coding of type plate, claw cap and transport protection cover (red: double shut-off device)
- Extremely low actuating torque (fully encapsulated, maintenance-free stem bearing)
- Opening starts already after 2–3 turns, full flow after 10–11 turns
- Easy installation thanks to ample assembly space
- Reversible-flow cleaning at full capacity
- No metallic surfaces which would be susceptible to caking in the drainage section
- Advantages of the drainage:
 - Protection against the ingress of foreign particles thanks to cross-section enlargement in the flow direction

Minimum volumetric flow rate 260 m³/h

The indicated flow rate applies to a fully opened hydrant at a pressure drop of 1 bar, measured immediately upstream and downstream of the hydrant.



Type	DN	Pipeline coverage Rd in m	Number of notches	Length in mm L	Weight in kg
AD1	100	1.00	2	770	40.0
		1.25	3	1000	45.0
		1.50	4	1250	50.0

Note:

If you plan to install a DN 100 underground hydrant, you are recommended to include a DN 100/80 claw adapter in your order, because the fire brigades often only have standpipes for DN 80 underground hydrants on board.

Underground hydrants



Model 02

DN 100/PN 16; according to DIN EN 14339 and DIN EN 1074-6
Type AD1 – with double shut-off device



Surface protection

- Jacket pipe: all-round (internal and external) epoxy resin powder coating according to DIN 3476 with a minimum layer thickness of 300 µm
- Claw and lid: all-round epoxy resin powder coating
- Colour: sky blue (RAL 5015)
- Layer thickness min. 250 µm according to DIN 3476

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Jacket pipe	EN-GJS-400-15
Cover lid	EN-GJS-400-15
Cone, rubber coated	EN-GJS-400-15, EPDM
Stem	X20Cr13V
Stem screw nut	Brass
Extension pipe	X5CrNi1810
Claw	EN-GJS-400-15
Seat ring	Brass
Square cap	EN-GJS-400-15 galvanised
Socket	Brass
O-ring	EPDM
Wiping ring	EPDM
Bolts and pins	Stainless steel

Standpost hydrants



Eurodrant 08 – DN 80, DN 100 – round

Style C

According to DIN EN 14384 (previously DIN 3222) and DIN 1074-6

Type AU – with single shut-off device

Type AUD – with double shut-off device



Specifications

- Eurodrant DIN-DVGW-DW-6411BU0328
- CE approval no. according to DIN EN 14384: E-30-00262-07
E-30-00263-07
- Flange connection according to DIN EN 1092-2, PN 16
- DN 80: 2 top outlets with fix Storz B couplings according to DIN 14318
- DN 100: one additional lower outlet with Storz A coupling according to DIN 14319
- Upper part of pillar can be rotated freely by 360°
- Vandalism-proof design with predetermined breaking point (style C)
- Weather-proof coating system:
epoxy resin powder coating + polyester
- Low actuating torque
- Opening starts already after 2–3 turns, full flow after 10–11 turns
- Complete drainage takes about 6–8 minutes
- Volume of remnant water < 15 ml

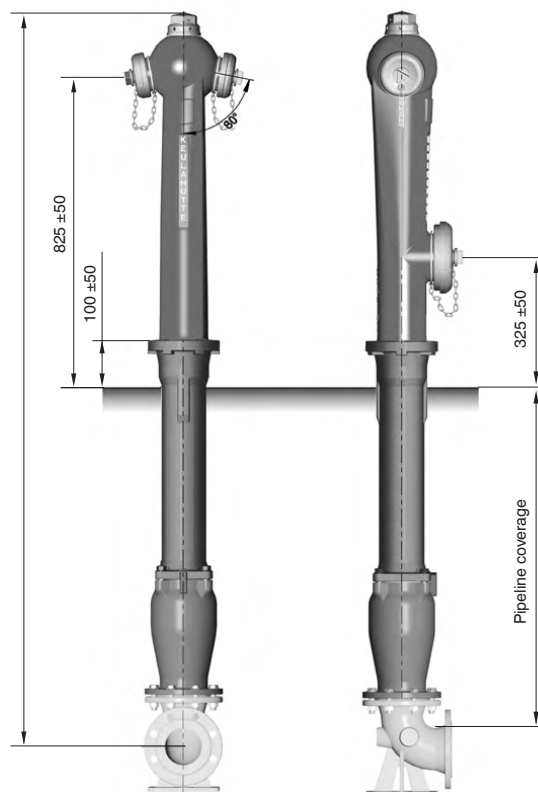
Minimum volumetric flow rate:

DN 80 2 x B KV = 140 m³/h

DN 100 2 x B KV = 210 m³/h

1 x A KV = 160 m³/h

The indicated flow rates apply if there is a pressure drop of 1 bar, measured immediately upstream and downstream of the hydrant.



Type	DN	Pipeline coverage Rd in m	Length in mm L	Height of fix A coupling in mm	Weight in kg
AU	80	0.8	1865	–	55
		1.0	2065		60
		1.25	2315		65
		1.5	2565		70
AUD	80	0.8	1865	–	56
		1.0	2065		61
		1.25	2315		66
		1.5	2565		71
AU	100	0.75	1880	350	70
		1.0	2080		75
		1.25	2330		80
		1.5	2580		85
AUD	100	0.75	1880	350	71
		1.0	2080		76
		1.25	2330		81
		1.5	2580		86

Standpost hydrants



Eurodrant 08 – DN 80, DN 100 – round

Style C

According to DIN EN 14384 (previously DIN 3222) and DIN 1074-6

Type AU – with single shut-off device

Type AUD – with double shut-off device



Surface protection

- Base: all-round epoxy resin powder coating
- Upper part and lower part of pillar: all-round epoxy resin powder coating
- Upper part: additional polyester top coat
Colour: blue grey (RAL 7031), flame red (RAL 3000), other colours on request
- Layer thickness min. 300 µm according to DIN 3476 or
- Base, upper part and lower part of pillar: fully enamelled inside according to DIN 51178 and external epoxy resin powder coating
- Upper part: additional polyester top coat
Colour: grey (RAL 7031), red (RAL 3000), other colours on request

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Upper part of pillar	EN-GJS-400-15
Lower part of pillar	EN-GJS-400-15
Base	EN-GJS-400-15
Cone	EN-GJS-400-15/EPDM W 270
Ball	Polyethylene
Guide bearing	EN-GJS-500-7
Stem	X20Cr13V
Stem screw nut, wing nut	Brass
Extension pipe	X5CrNi1810
Fix coupling	Aluminium
Cover cap	Aluminium
Seal	EPDM W 270
Socket	Brass
O-ring	EPDM W 270
Wiping ring	EPDM
Rupture ring	EN-GJL-250
Retaining ring	Stainless steel
Bolts and pins	Stainless steel
Actuator head	Aluminium, hardened
Retaining spring	X12CrNi177

Standpost hydrants



Eurodrant DN 80 – square – style C Model 94 DN 100 – square – style C

According to DIN EN 14384 (previously DIN 3222) and DIN EN 1074-6, PN 16

Type AU – with single shut-off device

Type AUD – with double shut-off device



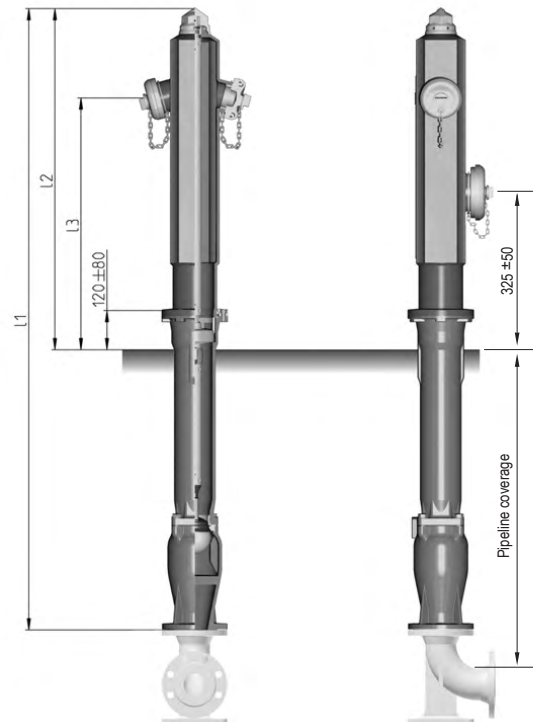
Specifications

- DIN DVGW conformity mark
Eurodrant DN80 NW 6411AP2011
Modell 94 DN 100: NW-6411AQ2014
- Vandalism-proof design with predetermined breaking point (style C)
- Type AUD with additional shut-off ball valve
- Flange connection according to DIN EN 1092-2, PN 16
- DN 80: 2 top outlets with fix Storz B couplings according to DIN 14318
- DN 100: one additional lower outlet with Storz A coupling according to DIN 14319
- Upper part of pillar can be rotated freely by 360°
- Weather-proof coating system:
epoxy resin powder coating + polyester

Minimum volumetric flow rate:

DN 80	140 m³/h
DN 100	210 m³/h

The indicated flow rates apply if both top outlets are open and if there is a pressure drop of 1 bar, measured immediately upstream and downstream of the hydrant.



Type	DN	Pipeline coverage Rd in m	Length in mm l1	Length in mm l2	Length in mm l3	Height of fix A coupling in mm	Weight in kg
AU	80	0.8	1700				58
		1.0	1900				63
		1.25	2150	1050	770	–	68
		1.5	2400				73
AUD	80	0.8	1700				59
		1.0	1900				64
		1.25	2150	1050	770	–	69
		1.5	2400				74
AU	100	0.75	1700				71
		1.0	1900				76
		1.25	2150	1050	770	450	81
		1.5	2400				86
AUD	100	0.75	1700				72
		1.0	1900				77
		1.25	2150	1050	770	450	82
		1.5	2400				87

Standpost hydrants



Eurodrant DN 80 – square – style C

Model 94 DN 100 – square – style C

According to DIN EN 14384 (previously DIN 3222) and DIN EN 1074-6, PN 16

Type AU – with single shut-off device

Type AUD – with double shut-off device



Surface protection

- Base: all-round epoxy resin powder coating
- Upper part and lower part of pillar: all-round epoxy resin powder coating
- Upper part: additional polyester top coat
Colour: blue grey (RAL 7031), flame red (RAL 3000), other colours on request
- Layer thickness min. 300 µm according to DIN 3476 or
- Base, upper part and lower part of pillar: fully enamelled inside according to DIN 51178 and external epoxy resin powder coating
- Upper part: additional polyester top coat
Colour: blue grey (RAL 7031), flame red (RAL 3000), other colours on request

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Upper part of pillar	EN-GJS-400-15
Lower part of pillar	EN-GJS-400-15
Base	EN-GJS-400-15
Cone	EN-GJS-400-15/EPDM W 270
Ball	Polyethylene
Guide bearing	EN-GJS-500-7
Stem	X20Cr13V
Stem screw nut, wing nut	Brass
Extension pipe	X5CrNi18.10
Fix coupling	Aluminium
Cover cap	Aluminium
Seal	EPDM W 270
Socket	Brass
O-ring	EPDM W 270
Wiping ring	EPDM
Rupture ring	EN-GJL-250
Retaining ring	Stainless steel
Bolts and pins	Stainless steel
Actuator head	Aluminium, hardened
Retaining spring	X12CrNi177

Standpost hydrants



Old town hydrant, model 1905/95

DN 80–100, PN 16, style C; according to DIN EN 14384 (previously DIN 3222) and DIN EN 1074-6

Type AU – with single shut-off device

Type AUD – with double shut-off device



Specifications

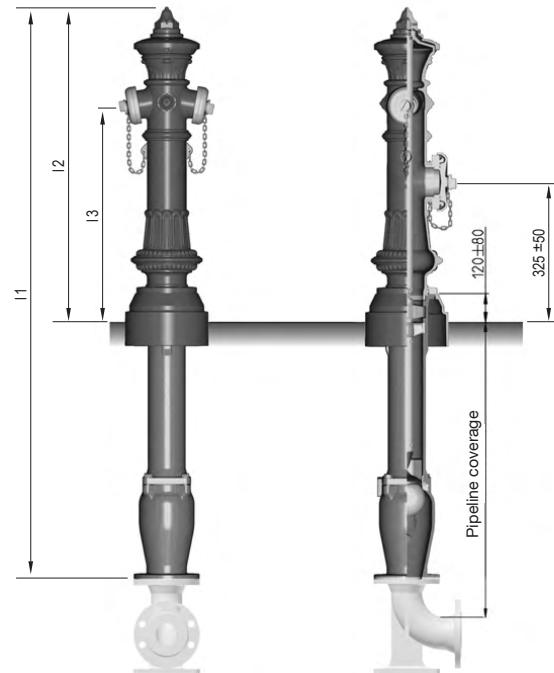
- DIN DVGW conformity mark for DN 80 und DN 100: NW-6411AQ2016
- Vandalism-proof design with predetermined breaking point (style C)
- Type AUD with additional shut-off ball valve
- Flange connection according to DIN EN 1092-2, PN 16
- DN 80: 2 top outlets with fix Storz B couplings according to DIN 14318
- DN 100: one additional lower outlet with Storz A coupling according to DIN 14319
- Upper part of pillar can be rotated freely
- Weather-proof coating system: epoxy resin powder coating with polyester

Minimum volumetric flow rate:

DN 80 140 m³/h

DN 100 210 m³/h

The indicated flow rates apply if both top outlets are open and if there is a pressure drop of 1 bar, measured immediately upstream and downstream of the hydrant.



Type	DN	Pipeline coverage Rd in m	Length in mm l1	Length in mm l2	Length in mm l3	Weight in kg
AU	80	0.8	1730	1060	730	72
		1.0	1930			77
		1.25	2180			82
		1.5	2430			87
AUD	80	0.8	1730	1060	730	73
		1.0	1930			78
		1.25	2180			83
		1.5	2430			88
AU	100	0.75	1680	1060	730	82
		1.0	1930			87
		1.25	2180			92
		1.5	2430			97
AUD	100	0.75	1680	1060	730	83
		1.0	1930			88
		1.25	2180			93
		1.5	2430			98

Standpost hydrants



Old town hydrant, model 1905/95

DN 80–100, PN 16; according to DIN EN 14384 (previously DIN 3222) and DIN EN 1074-6

Type AU – with single shut-off device

Type AUD – with double shut-off device



Surface protection

- Base: all-round epoxy resin powder coating
- Upper part and lower part of pillar: all-round epoxy resin powder coating
- Upper part: additional polyester top coat
Colour: blue grey (RAL 7031), flame red (RAL 3000), other colours on request
- Layer thickness min. 300 µm according to DIN 3476 or
- Base, upper part and lower part of pillar: fully enamelled inside according to DIN 51178 and external epoxy resin powder coating
- Upper part: additional polyester top coat
Colour: blue grey (RAL 7031), flame red (RAL 3000), other colours on request

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Upper part of pillar	EN-GJS-400-15
Lower part of pillar	EN-GJS-400-15
Base	EN-GJS-400-15
Cone	EN-GJS-400-15/EPDM W 270
Ball	Polyethylene
Guide bearing	EN-GJS-500-7
Stem	X20Cr13V
Wing nut	Brass
Extension pipe	X5CrNi18.10
Fix coupling	Aluminium
Cover cap	Aluminium
Seal	EPDM W 270
Socket	Brass
O-ring	EPDM W 270
Wiping ring	EPDM
Rupture ring	EN-GJL-250
Retaining ring	Stainless steel
Bolts and pins	Stainless steel
Actuator head	Aluminium, hardened

Standpost hydrants



Drop-jacket hydrant, model 99

DN 100, PN 16, style C; according to DIN EN 14384 (previously DIN 3222) and DIN EN 1074-6

Type AFU – with single shut-off device

Type AFUD – with double shut-off device



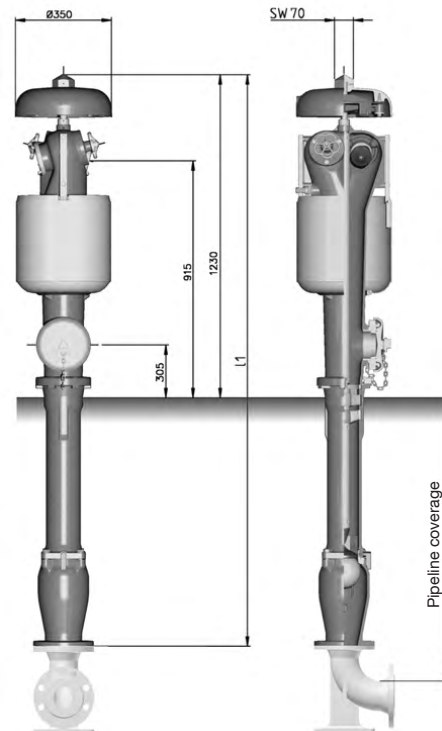
Specifications

- DIN DVGW conformity mark: NW-6411AU2287
- Vandalism-proof design with predetermined breaking point (style C)
- Type AFUD with additional shut-off ball valve
- Flange connection according to DIN EN 1092-2, PN 16
- 2 top outlets, individually controllable by landing valves, with fix Storz B couplings according to DIN 14318 under lockable drop jacket
- 1 lower outlet with fix Storz A coupling according to DIN 14319
- Upper part of pillar can be rotated freely
- Weather-proof coating system:
epoxy resin powder coating with polyester

Minimum volumetric flow rate:

200 m³/h

The indicated flow rate applies if both top outlets are open and if there is a pressure drop of 1 bar, measured immediately upstream and downstream of the hydrant.



Type	DN	Pipeline coverage Rd in m	Length in mm l1	Weight in kg
AFU	100	0.75	1850	104
		1.0	2100	109
		1.25	2350	114
		1.5	2600	119
AFUD	100	0.75	1850	105
		1.0	2100	110
		1.25	2350	115
		1.5	2600	120

Standpost hydrants



Drop-jacket hydrant, model 99

DN 100, PN 16, style C; according to DIN EN 14384 (previously DIN 3222) and DIN EN 1074-6

Type AFU – with single shut-off device

Type AFUD – with double shut-off device



Surface protection

- Base: all-round epoxy resin powder coating
 - Upper part and lower part of pillar: all-round epoxy resin powder coating
 - Upper part: additional polyester top coat
- Colour: blue grey (RAL 7031), flame red (RAL 3000), other colours on request
- Layer thickness min. 300 µm according to DIN 3476 or
-
- Base, upper part and lower part of pillar: fully enamelled inside according to DIN 51178 and external epoxy resin powder coating
 - Upper part: additional polyester top coat
- Colour: blue grey (RAL 7031), flame red (RAL 3000), other colours on request

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Upper part of pillar	
Lower part of pillar	EN-GJS-400-15
Base	
Lid	
Stem flange	EN-GJS-400-15
Valve cone, rubber coated	EN-GJS-400-15, EPDM
Valve stem	X20Cr13V
Valve seat	Brass
Drop jacket	X5CrNi18.10
Guide bearing	EN-GJS-500-7
Stem	X20Cr13V
Wing nut	Brass
Extension pipe	X5CrNi18.10
Fix coupling	Aluminium
Cover cap	Aluminium
Seal	EPDM W 270
Socket	Brass
O-ring	EPDM W 270
Wiping ring	EPDM
Rupture ring	EN-GJL-250
Retaining ring	Stainless steel
Bolts and pins	Stainless steel

Standpost hydrants



Eurodrant compact

DN 80 – round – PN 16 – style A

According to DIN EN 14384 and DIN EN 1074-6

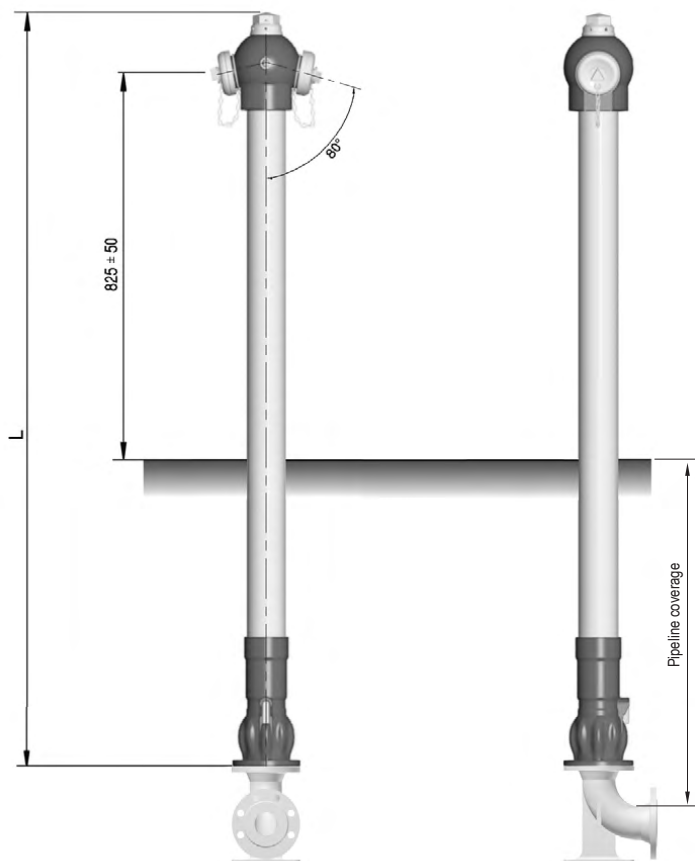
Type AU – with single shut-off device

Type AUD – with double shut-off device



Specifications

- CE approval no. according to DIN EN 14384: E-30-00264-07
- Simple construction thanks to combination of cast iron parts and steel pipe
- Not vandalism-proof (style A)
- Available for various pipe coverage
- Flange connection according to DIN EN 1092-2, PN 16
- 2 top outlets with fix Storz B couplings according to DIN 14318
- Upper part can be rotated freely
- Weather-proof coating system: epoxy resin powder coating + polyester
- Low actuating torque
- Opening starts already after 2–3 turns, full flow after 10–11 turns
- Complete drainage takes about 6–8 minutes
- Volume of remnant water < 15 ml
- Minimum volumetric flow rate:
 $2 \times B \text{ KV} = 140 \text{ m}^3/\text{h}$



Type	DN	Pipeline coverage Rd in m	Length in mm L	Weight in kg
AU	80	1.0	2065	48.0
		1.25	2315	51.5
		1.5	2565	55.0
AUD	80	1.0	2065	48.5
		1.25	2315	52.0
		1.5	2565	55.5

Additional coverages are available on request.

Standpost hydrants



Eurodrant compact

DN 80 – round – PN 16 – style A

According to DIN EN 14384 and DIN EN 1074-6

Type AU – with single shut-off device

Type AUD – with double shut-off device



Surface protection

- Upper part and lower part: all-round epoxy resin powder coating
- Upper part: additional polyester top coat
- Colour: flame red (RAL 3000)
- Layer thickness min. 300 µm according to DIN 3476

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Upper part	EN-GJS-400-15
Lower part	EN-GJS-400-15
Pipe	1.4301
Cone	EN-GJS-400-15/EPDM W 270
Ball	Polyethylene
Stem	X20Cr13V
Stem screw nut	Brass
Extension pipe	X5CrNi18.10
Fix coupling	Aluminium
Cover cap	Aluminium
Seal	EPDM W 270
Socket	Brass
Bolts and pins	Stainless steel
Actuator head	Aluminium, hardened
Retaining spring	X12CrNi177

Standpost hydrants



Tunnel hydrant compact

DN 80 – round – PN 16 – style A

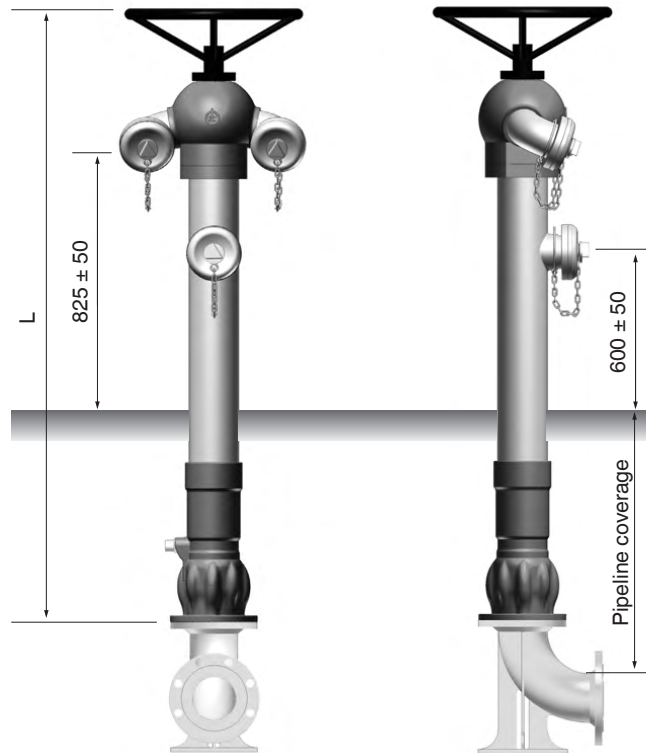
According to DIN EN 14384 and DIN EN 1074-6

Type AU – with single shut-off device

Type AUD – with double shut-off device

Specifications

- Simple construction thanks to combination of cast iron parts and steel pipe
- Without predetermined break point (style A)
- Available for various pipe coverage
- Flange connection according to DIN EN 1092-2, PN 16
- 2 top outlets with fix Storz B or C couplings
- Optionally 1 lower outlet with fix Storz A, B or C coupling
- Upper part can be rotated freely
- Weather-proof coating system: epoxy resin powder coating + polyester
- Low actuating torque
- Opening starts already after 2–3 turns, full flow after 10–11 turns
- Complete drainage takes about 6–8 minutes
- Volume of remnant water < 15 ml
- Minimum volumetric flow rate:
 $2 \times B \text{ KV} = 140 \text{ m}^3/\text{h}$



Type	DN	Pipeline coverage Rd in m	Length in mm L	Weight in kg
AU	80	1.0	2065	48.0
		1.25	2315	51.5
		1.5	2565	55.0
AUD	80	1.0	2065	48.5
		1.25	2315	52.0
		1.5	2565	55.5

Other lengths are available on request.

Standpost hydrants



Tunnel hydrant compact

DN 80 – round – PN 16 – style A

According to DIN EN 14384 and DIN EN 1074-6

Type AU – with single shut-off device

Type AUD – with double shut-off device

Surface protection

- Upper part and lower part: all-round epoxy resin powder coating
- Upper part: additional polyester top coat
- Colour: flame red (RAL 3000)
- Stainless steel tube
- Layer thickness min. 300 µm according to DIN 3476

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

Description	Material
Upper part	EN-GJS-400-15
Lower part	EN-GJS-400-15
Pipe	1.4301
Cone	EN-GJS-400-15/EPDM W 270
Ball	Polyethylene
Stem	X20Cr13V
Stem screw nut	Brass
Extension pipe	X5CrNi18.10
Fix coupling	Aluminium
Cover cap	Aluminium
Seal	EPDM W 270
Socket	Brass
Bolts and pins	Stainless steel
Hand wheel	St 37.0
Retaining spring	X12CrNi177

Fire water suction point – type A/B



Dry hydrant

DN 100, PN 16; according to DIN 14244

Type A – with dip rod

Type B – without dip rod



Specifications

- Bottom flange connection DN 100 according to DIN EN 1092-2, PN 16
- 1 outlet with fix Storz A coupling according to DIN 14319
- Weather-proof coating system: epoxy resin powder coating + polyester
- Suitable for suction and delivery applications
- Type A – with 1" dip rod port
- Type B – without dip rod
- Internal diameter: at least 100 mm throughout
- Weight – 36 kg

Materials

Description	Material
Body	EN-GJS-400-15
Plug	Brass
Fix Storz A coupling according to DIN 14319	Aluminium
Storz A cover cap according to DIN 14319	Aluminium
Gasket	EPDM W 270

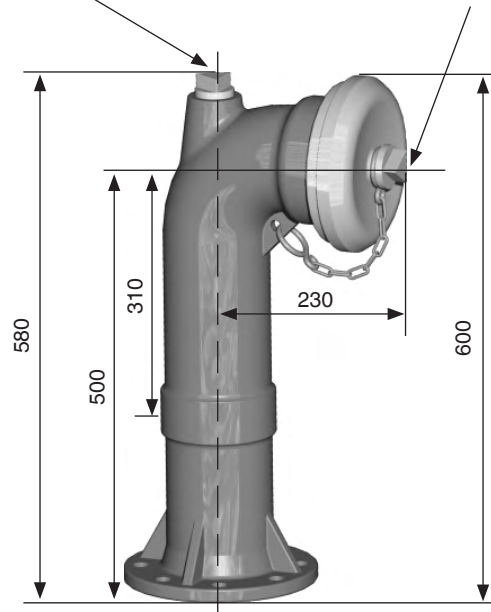
Surface protection

- Inside: epoxy resin powder coating
- outside: epoxy resin powder coating, additional polyester top coat
- Colour: flame red (RAL 3000) or blue grey (RAL 7031), other colours on request
- Layer thickness min. 300 µm according to DIN 3476

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines and comply with the requirements of the German Federal Environmental Agency (UBA).

Dip rod plug (type A)
Triangular key, side length: 39 mm

Triangular key,
side length: 39 mm



Fire water suction point – type C



Dry hydrant

DN 100, PN 16

Similar to DIN 14244

Type C (underground type)



Specifications

- Bottom flange connection DN 100 according to DIN EN 1092-2, PN 16
- 1 outlet with fix Storz A coupling according to DIN 14309
- Weather-proof coating system:
epoxy resin powder coating + polyester
- Suitable for suction and delivery applications
- Internal diameter: at least 100 mm throughout
- Weight – 11.5 kg

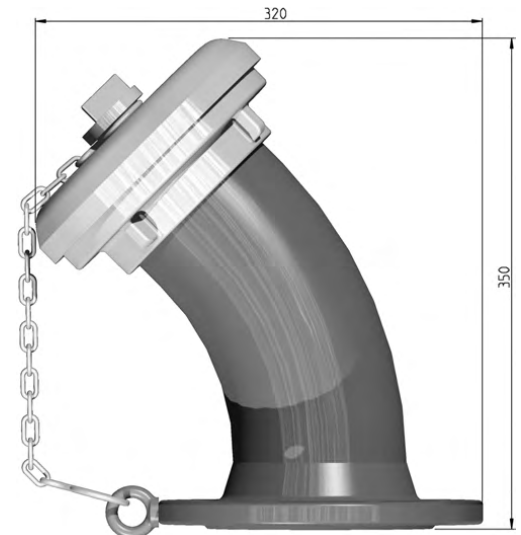
Materials

Description	Material
Body	EN-GJS-400-15
Plug	Brass
Fix Storz A coupling according to DIN 14309	Aluminium
Storz A cover cap according to DIN 14319	Aluminium
Gasket	EPDM W 270

Surface protection

- Inside: epoxy resin powder coating
outside: epoxy resin powder coating,
additional polyester top coat
- Colour: sky blue (RAL 5015), others on request
- Layer thickness min. 300 µm according to DIN 3476

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).



Stand pipe



Pillar hydrant assembly

DN 100, PN 16

Complete assembly with FFG and N piece



Specifications

- DN 100 dry hydrant
- Completely assembled with FFG and N piece
- With fix Storz A coupling according to DIN 14319
- DN 100 N piece with drain valve
- Dry hydrant (suction only)
- Type A – with dip rod / type B – without dip rod
- Internal diameter: at least 100 mm throughout
- FFG 100/800 – Rd 1.0 m / FFG 100/1000 – Rd. 1.25 m / FFG 100/1200 – Rd. 1.5 m

Type	DN	Pipeline coverage Rd in m	Weight in kg
Type A – with dip rod	100	1.0	68
Type A – with dip rod	100	1.25	75
Type A – with dip rod	100	1.5	82
Type B – without dip rod	100	1.0	68
Type B – without dip rod	100	1.25	75
Type B – without dip rod	100	1.5	82

The main pipe coverage shall be chosen and the entire pillar hydrant assembly shall be installed such that the valves and fittings are prevented from freezing. If there is water pressure above the coverage (e.g. in a cistern), then a gate valve must be fitted. Sufficient flushing shall be ensured before usage.

Materials

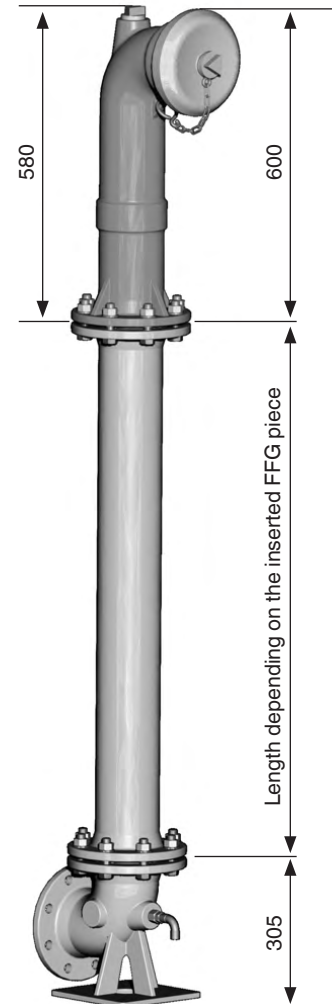
Description	Material
Hydrant body	EN-GJS-400-15
Plug	Brass
Fix Storz A coupling according to DIN 14319	Aluminium
Storz A cover cap according to DIN 14319	Aluminium
Gasket	EPDM W 270
FFG piece	EN-GJS-400-15
N piece	EN-GJS-400-15
Drain valve	Brass

Surface protection

- Dry hydrant:
 - inside: epoxy resin powder coating,
 - outside: epoxy resin powder coating,
 - additional polyester top coat
 - colour: flame red (RAL 3000) or blue grey (RAL 7031)
- FFG piece and N piece: all-round epoxy resin powder coating
- Layer thickness min. 300 µm according to DIN 3476

All materials and coatings used have been tested for hygienic and bacteriological suitability and are approved for use in drinking water pipelines. They comply with the requirements of the German Federal Environmental Agency (UBA).

* Version for pressure mode on request.

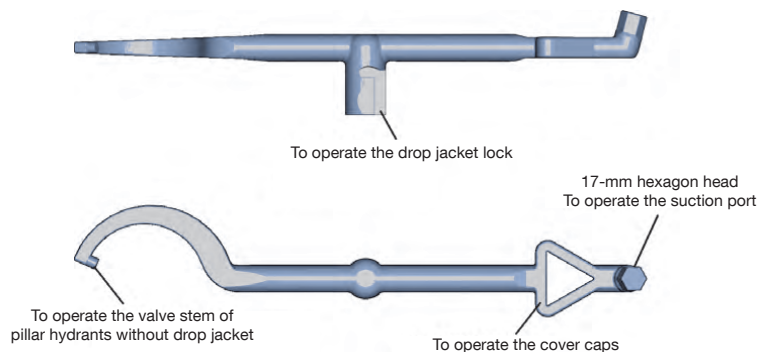


Actuating wrenches



For hydrants, gate valves and butterfly valves

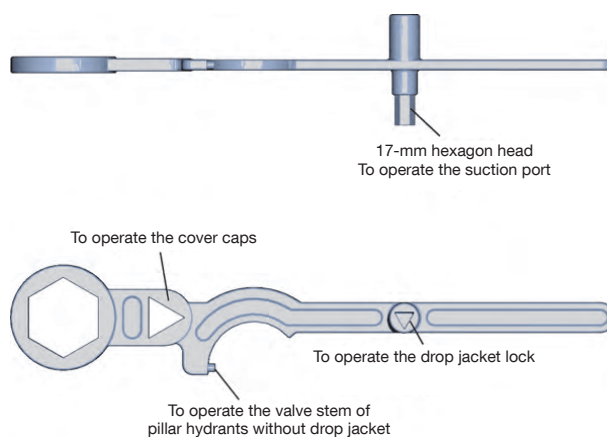
Type A for pillar hydrants



Description of a type A wrench for pillar hydrants:

DIN 3223 wrench A

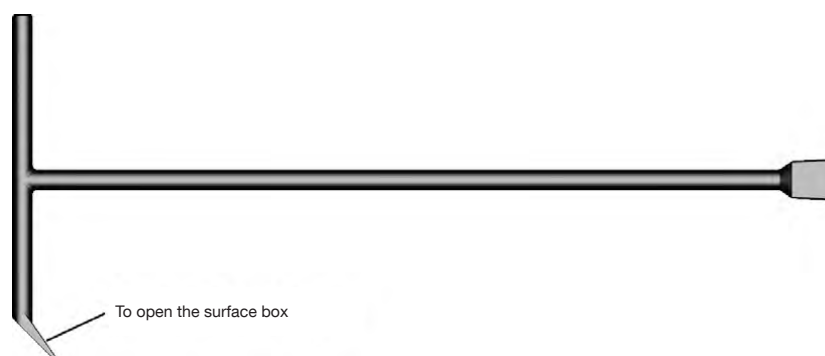
Type B for pillar hydrants



Description of a type B wrench for pillar hydrants:

DIN 3223 wrench B

Type C for underground hydrants, gate valves and butterfly valves



Description of a type C wrench for underground hydrants and gate valves:

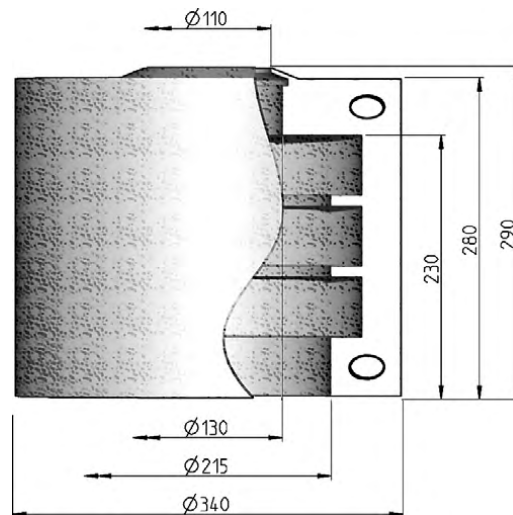
DIN 3223 wrench C

Drain stones



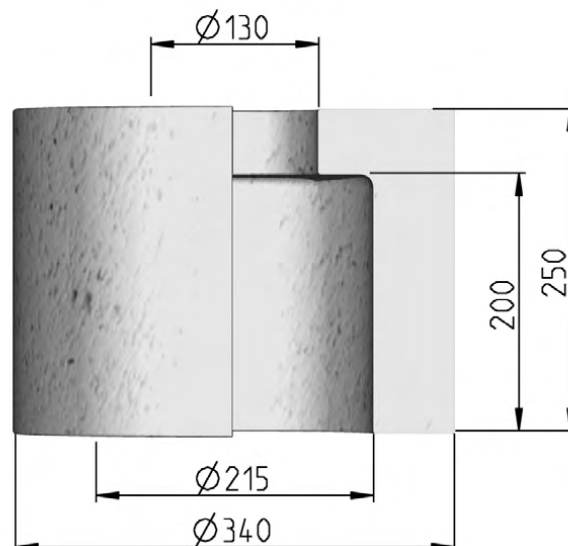
For DN 80/DN 100 hydrants

Drain stone 'light' for hydrants



Material: Polystyrene
Type: 2-piece, cylindrical shape
Weight: Approx. 300 g
Size: Fits all DN 80 / DN 100 underground and pillar hydrants

Drain stone 'Keula' for hydrants



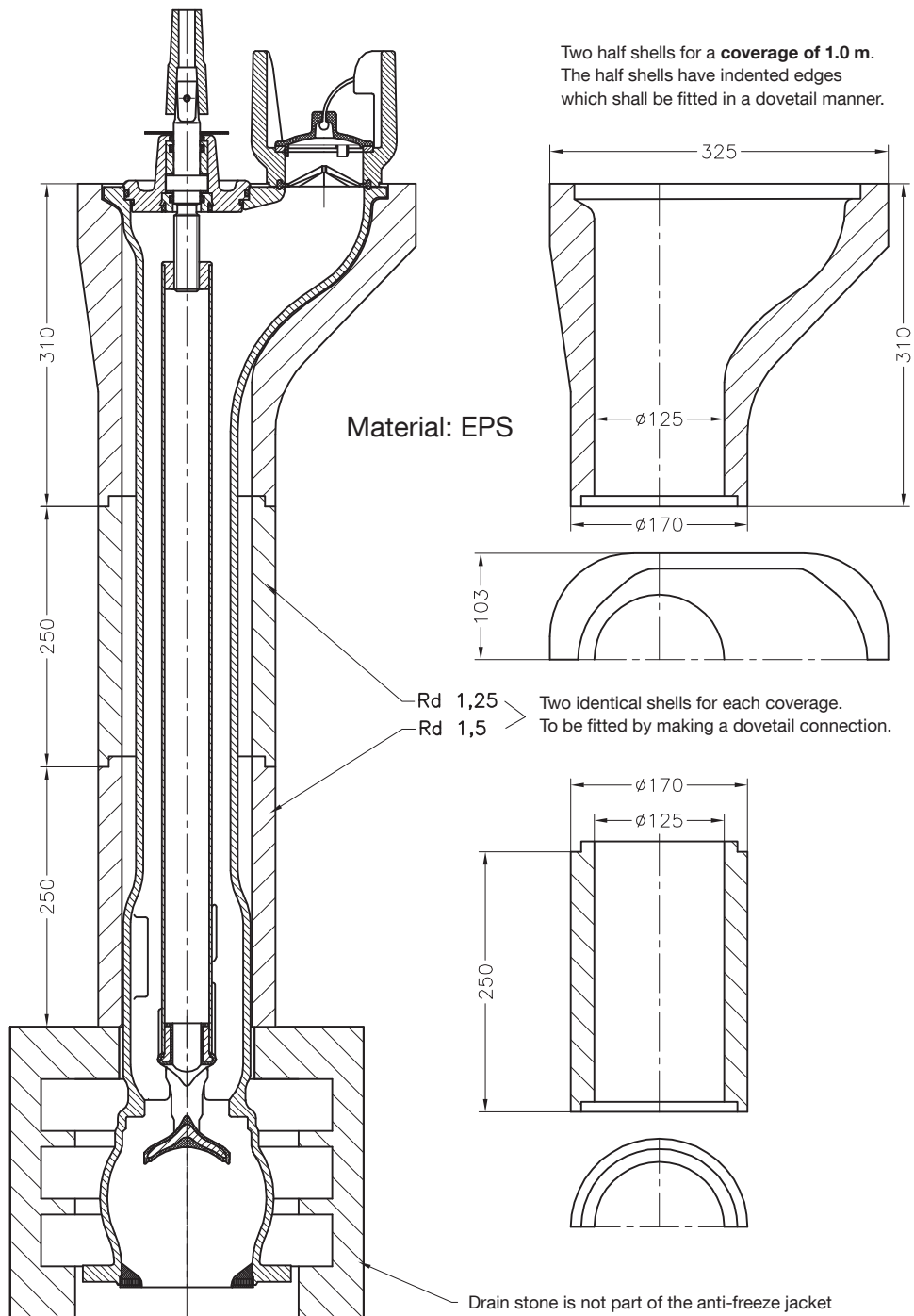
Material: Aerated concrete
Type: 2-piece, cylindrical shape
Weight: 13.6 kg
Size: Fits all DN 80 / DN 100 underground and pillar hydrants

Polystyrene anti-freeze jackets



For DN 80 underground hydrants

Material: Polystyrene
Design: Two identical dovetailed half shells
Size: Fits model 97F

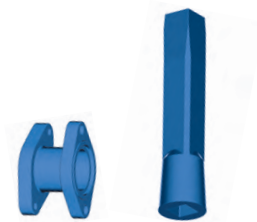


Extensions and adapters



Claw extension and square stem extension

Description For DN 80/DN 100 hydrants



Material

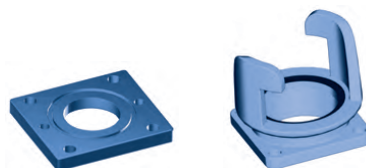
- Spheroidal graphite cast iron

Surface protection

- All-round (internal and external) epoxy resin powder coating according to DIN 3476 with a minimum layer thickness of 300 µm

DN	Extension mm	Claw extension Height in mm	Square stem extension Length in mm
80	100	100	200
	150	150	250
	200	200	300
	250	250	350
	300	300	400

Claw adapter



Description

- For DN 100 underground hydrants to fit DN 80 standpipe connections
- Completely pre-assembled
- Consisting of claw, adapter plate, connection elements, O-ring, claw lock and lid

Materials

- Claw, adapter plate: – Spheroidal graphite cast iron
- Connection elements: – Stainless steel A2
- O-ring/claw lock: – EPDM rubber
- Claw lid: – PP

Surface protection

- All-round (internal and external) epoxy resin powder coating according to DIN 3476 with a minimum layer thickness of 250 µm

Claw adapter DN	Dimensions mm
100/80	160x160x22

Surface box for hydrants



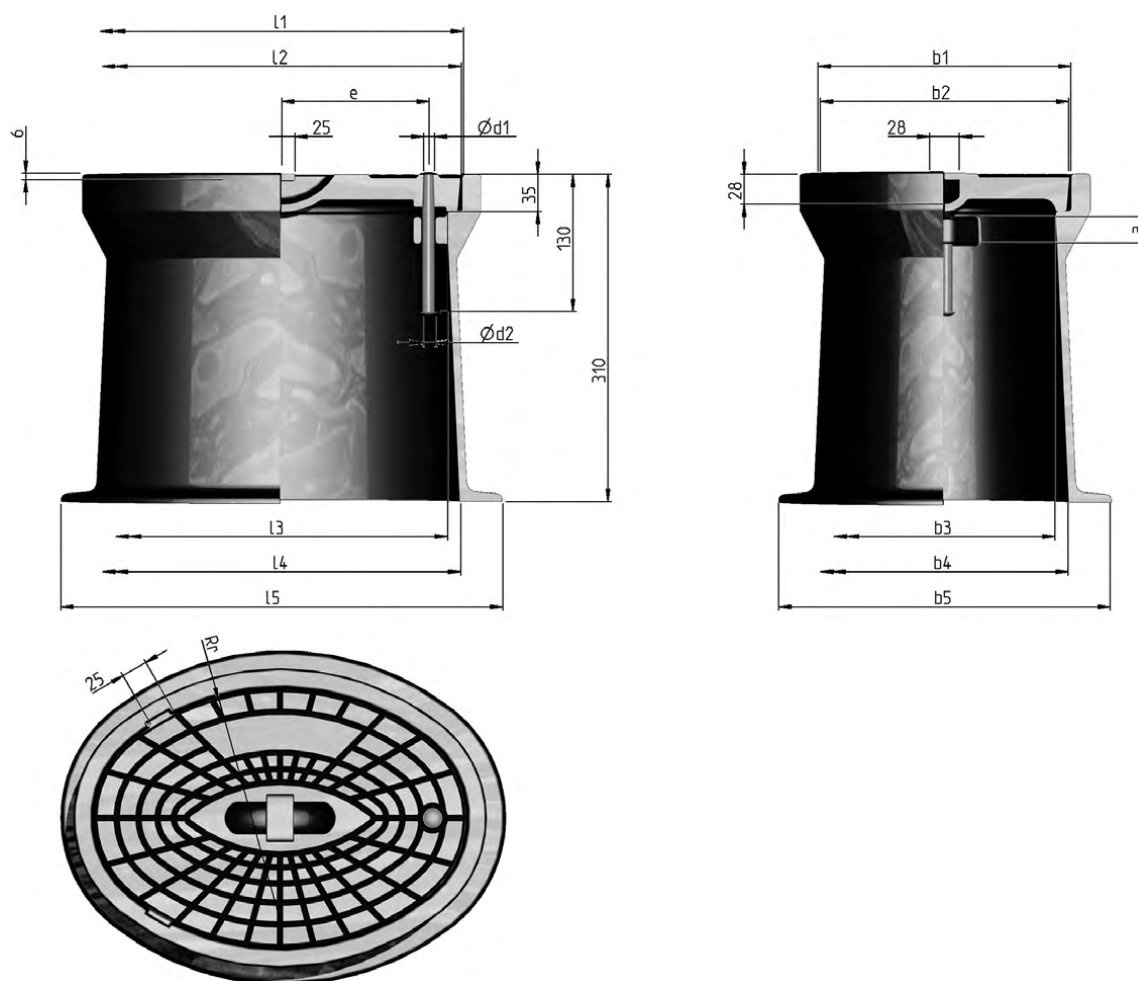
DN 80 / DN 100
DIN 4055

Material

– Grey cast iron EN GJL 200

Surface protection

– Black alkyd resin coating



Description of a surface box for DN 80 underground hydrants: **DIN 4055 surface box U 80**

DN	a	b ₁	b ₂	b ₃	b ₄	b ₅	d ₁	d ₂	d ₃	e	l ₁	l ₂	l ₃	l ₄	l ₅	r
80	25	240	236	210	235	315	10	12	15	140	345	341	315	340	420	220
100	28	356	352	312	340	440	14	18	22	186	456	452	412	440	540	351