



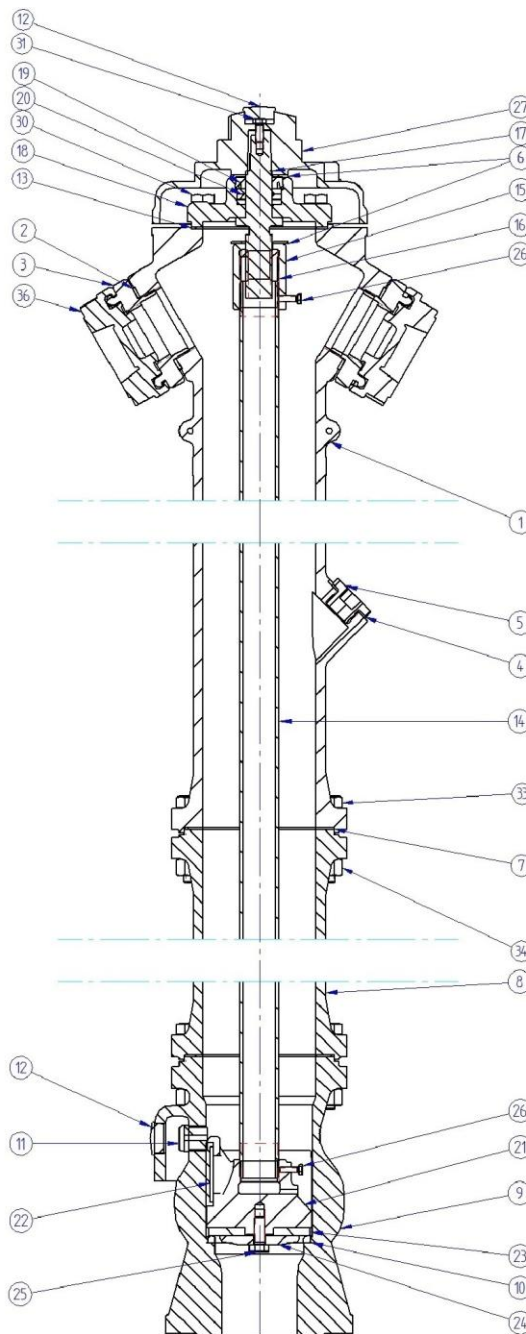
PRODUCT SPECIFICATION

PILLAR FIRE HYDRANT

 DN 80, DN 100, PN 16 MSZ EN 14384

 Type number: Ff-80-100

Nr	Pc	Description	Drawing Nr
1	1	Upper column	FF-80-31a
2	2	Ring sealing	FF-100-06
3	2	Fixed connection	DIN14318/A
4	1	Ring sealing	FF-80-15
5	1	Plug	FF-80-16
6	2	"O" ring	FF-80-02
7	2	Ring sealing	FF-80-37
8	1	Lower column	FF-80-32A
9	1	Valve box	FF-80-34a
10	1	Seat ring	13428-9
11	1	Drain	FF-80-40
12	2	Plug	FF-80-35
13	1	Seal	FF-80-26
14	1	Operating controls	FF-80-30A,B,C
15	1	Cast stem body	FF-80-28B-1
16	1	Trapezoidal threaded nut bush	FF-80-28B-2
17	1	Spindle	FF-80-27A
18	1	Cover	FF-80-10
19	1	Seal	FF-80-03
20	3	Seal	FF-80-05
21	1	Valve body	FF-80-18a
22	1	Seal component	FF-80-17
23	1	Sealing disc	FF-80-41
24	1	"O" ring	13427-3
25	1	Hexagon head bolt ISO 4017 M12x30	
26	2	Hexagon head screw ISO 4017 - M6x20	
27	1	End cap	FF-80-25
30	4	Hexagon head bolt ISO 4017- M16x45	
31	1	Hexagon head bolt ISO 4017- M8x20	
33	8	Hexagon head bolt ISO 4017- M20x80	
34	8	Hexagon nut ISO 4032 - M20	
35	2	Grub screw ISO 4027 - M6x20	
36	2	Plastic cap	FF-100-08



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Area of application:

Connected to public water utilities of municipalities, hydrants are used primarily for firefighting. They can also be used to obtain water supplies as well as to drain off water or bleed air.

Installation:

Its connection to the public water system can be made possible through the intermediary of a cast iron double-flanged bend (DN80, or DN100 QN fittings). It is advisable to install a suitable wedge gate valve in front of fire hydrants supplied from the water main pipe. For proper drainage, a gravel bed shall be created below the frost depth. Make sure to choose the appropriate length size: the fire hydrant shall be installed in accordance with the manufacturer's standards and in such a way that the height of the horizontal centreline of the upper outlets is situated between 650 and 900 mm above ground level.

Versions available:	Unit weight (kg)	Product code
PILLAR FIRE HYDRANT FF-80-00A1.-M	105	6-01-01
PILLAR FIRE HYDRANT FF-80-00B 1,25.-M	110	6-01-02
PILLAR FIRE HYDRANT FF-80-00C 1,5.-M	115	6-01-03
PILLAR FIRE HYDRANT FF-100-00A 1.-M	108	6-01-04
PILLAR FIRE HYDRANT FF-100-00B 1,25.-M	113	6-01-05
PILLAR FIRE HYDRANT FF-100-00C 1,5.-M	118	6-01-06

Options:

- Cast body, fix DN80 or DN100 type A – 2B outlets
- Cast body, fix DN80 or DN100 type B – 2B outlets
- Cast body, fix DN80 or DN100 type C – 2B outlets
- Cast body, fix DN100 type A – 2B and 1A outlets
- Cast body, fix DN100 type B – 2B and 1A outlets
- Cast body, fix DN100 type C – 2B and 1A outlets
- Ornate, cast body, fix DN80 or DN100 type A – 2B outlets
- Ornate, cast body, fix DN80 or DN100 type B – 2B outlets
- Ornate, cast body, fix DN80 or DN100 type C – 2B outlets
- Cast body, breakaway DN80 or DN100 type A – 2B outlets
- Cast body, breakaway DN80 or DN100 type B – 2B outlets
- Cast body, breakaway DN80 or DN100 type C – 2B outlets
- Cast body, breakaway DN100 type A – 2B and 1A outlets
- Cast body, breakaway DN100 type B – 2B and 1A outlets
- Cast body, breakaway DN100 type C – 2B and 1A outlets

Connections:

- Joining flange sizes: MSZ EN 1092-2:2000, in conformity with DN 80-PN 16; and DN 100-PN 16.

- Outlets: comply with the standard MSZ 1057:1989, 2 pieces of B-size buckle bodies, or 1 piece of A size buckle body

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Functioning and operation:

With a hydrant wrench used to above-ground fire hydrants, or a universal spanner wrench. Turning counter-clockwise: open position, turning clockwise: close position. The hydrant wrench is also suitable for unlocking the cap as well as the bung. An internal shut-off valve system prevents water hammers during the opening operation. The special drain holes allow any water left inside the hydrant case to drain away into the bed of gravel to be created below the frost depth when installing it. If set correctly, the hydrant is protected from frosting in winter, it does not require any thawing-out. The drainage period is 2 to 5 minutes, depending on the tightness of the soil and the gravel in fully open position! Drainage checks can be performed by screwing off the bung. The cap shall be fastened only after the drainage is completed! Using this same access hole, the water left in the hydrant can be sucked out if the drain holes are clogged. **WARNING: the hydrant operates correctly only when positioned fully opened or fully closed! When withdrawing water in half-opened position, the hydrant is continuously leaking through the drain holes.**

For industrial areas, it is recommended to use breakaway or so-called security fire hydrants. To prevent the water from leaking in case of accidents, the predetermined breaking point ensures that the closing system of the hydrant remains intact.

We offer hydrants with ornate above-ground sections for decorating squares or any frequently visited locations.

Hydraulic characteristics:

Complies with MSZ EN 14384:

Ff-80-00: $K_v = 202.4$ on 2x65 mm outlet

Ff-100-00: $K_v = 172.1$ on 2x65 mm outlet

BFf-80-00: $K_v = 181.1$ on 2x65 mm outlet

BFf-100-00: $K_v = 150.5$ on 2x65 mm outlet

MFf-80-00: $K_v = 202.4$ on 2x65 mm outlet

MFf-100-00: $K_v = 172.1$ on 2x65 mm outlet

Material of the main parts:

Cast iron: body upper and lower parts, valve box, valve body, washer, cap, cover, bung, wing nut housing

Brass: bearing ring, drain bed, threaded bush

Aluminium: buckle body

Stainless steel: spindle

Rubber: seals

Plastic: washer, fastener ring, packing gland, seal component, closing cap

Instructions for maintenance:

As part of the mandatory maintenance specified by the National Fire Safety Regulations, during the operational test, water tightness and complete draining have to be checked through the access hole located on the side of the hydrant and by screwing off the bung. In case of any anomaly, the inside structure of the hydrant can be taken out in one piece without having to excavate the hydrant.

Finish:

The components above and below the ground are protected by an epoxy-based multilayer weatherproof coating system, according to the requirements of the National Fire Safety Regulations. The surface of inside castings are treated with bicomponent epoxy coating, tested and certified by the National Public Health and Medical Officer Service.

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