

# HAWLE / KRAMMER BS 750 UNDERGROUND FIRE HYDRANT



IPL group

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## HAWLE / KRAMMER Underground Fire-Hydrant BS 750, PN16

- design and materials according to BS 750, "Type 2"
- flange drilled acc. to BS 4504, PN16
- body and cap made of ductile cast iron GGG 400 acc. to DIN 1693
- internally and externally fluidised bed epoxy powder coating acc. to RAL-GZ 662:
  - proper cleaning of the surface inside and outside by shot blasting
  - min. 300 µm thickness of epoxy powder coating, colour blue
- regular tests: coating thickness, freedom from pores (3000 V) impact resistance (5 Nm - 3000 V), cross linkage test, adhesion test (DIN 4624), cathodic disbonding test (acc. to DIN 30677)
- coupling (claw) made of high grade stainless steel 1.4301
- port cover (coupling cap) of PE, connected to the hydrant by a steel cable
- spindle non rising type, made of stainless steel 1.4021, rolled thread, polished
- maintenance free spindle sealing by O-Rings of drinking water approved rubber
- O-Rings embedded in corrosion free metal (DIN 3547-Part 1)
- smooth spindle guiding on friction washers of POM (Polyoxymethylene)
- sealing piston (plug) with special operating guides made of brass Ms58, vulcanized with drinking water approved rubber
- bolts & nuts made of high grade stainless steel A2
- operating cap made of ductile cast iron GGG 400, electro galvanized
- all internal parts of corrosion resistant materials
- each hydrant is tested at 24 bar (body) and at 17,6 bar (piston tightness)

## Major Customer Benefits:

- Design lifetime: 50 years
- Inside and Outside Fluidised Bed Epoxy Powder Coated, permanently third party tested by the "Association For High Quality Corrosion Protection" / Hanover, Germany
  - Minimum coating thickness: 300 microns
  - Zero porosity (zero pinholes)
  - Minimum adhesion: 12 N/mm<sup>2</sup>
- Lifetime maintenance & service free
- Due to the unique wedge guiding system the operating torque is just 35Nm at PN16 bar which ensures easy operation also after decades. (operating torques lower than all currently KAHRAMAA approved BS 750 Hydrants)
- Hydrant made in Austria which assures top product quality and low delivery times.
- Coupling (Claw) made of high grade stainless steel 1.4301 instead of the usually used bronze.
- Spindle made of stainless steel 1.4021 instead of the usually used bronze.
- Sealing piston made of brass Ms58 instead of the usually used bronze. In the sealing area the piston is encapsulated with vulcanized rubber.
- Optionally available with automatic drainage function to avoid remaining "dead water" in the hydrant.
- **Hawle 10 years warranty!**  
Safety and cost control for consultants, contractors and end users.



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BS 750 / DN 80  
Operating pressure: max. 16 bar (PN 16)

## Materials and surface protection:

Body made of ductile cast iron, with all-over epoxy fluidized bed coating.

Claw of stainless steel, grade 1.4301

Sealing piston made of brass.

Spindle made of stainless steel, grade 1.4021.

All other parts are made of non-corrosive materials.

The sealing piston provides for pressure control and tightness in the brass fit by its vulcanized packing profile of EPDM rubber.

All inner parts can be dismantled to the top without digging out the hydrant.

Actuation is effected by means of valve key at the square end 29/35 via the rod and a stainless steel spindle.

## Hawle 10 years warranty!

1	hydrant body assembly	
1.1	body	GGG
1.2	drainage (optionally)	PE
2	head plate assembly	
2.1	head plate	GGG
2.2	O-ring	NBR
2.3	head bush	Ms58
2.4	hexagonal screw M16 x 30	V2A
3	spindle assembly	
3.1	spindle	1.4021
3.2	snap ring	V2A
3.3	friction washer	POM
3.4	friction washer	Ms58
3.5	sealing piston	Ms58/NBR
3.6	O-ring	NBR
4	square cap assembly	
4.1	square cap	GGG
4.2	split washer	V2A
4.3	allen screw M8	V2A
4.4	isolating cap	PE
5	claw assembly	
5.1	claw	1.4301
5.2	O-ring	NBR
5.3	port cover	PE

