

The comparison is worthwhile

Explanations

The scope of medium can be restricted within the product data sheets. In case of any inquiry or order point out the medium of each project.

In case of any questions, don't hesitate to contact our application engineers.



potable water products



sewage water products



gas products



In general our products are subject to the statutory warranty period of two years from the day of delivery by Hawle. Due to the high quality of Hawle products we are able to offer you an extended warranty period of 5 years for our products. Further information for potable water products: www.hawle.de/en/warranty-extension



Further information of "10 years quality warranty" for potable water products: www.hawle.de/en/10-years-quality-warranty

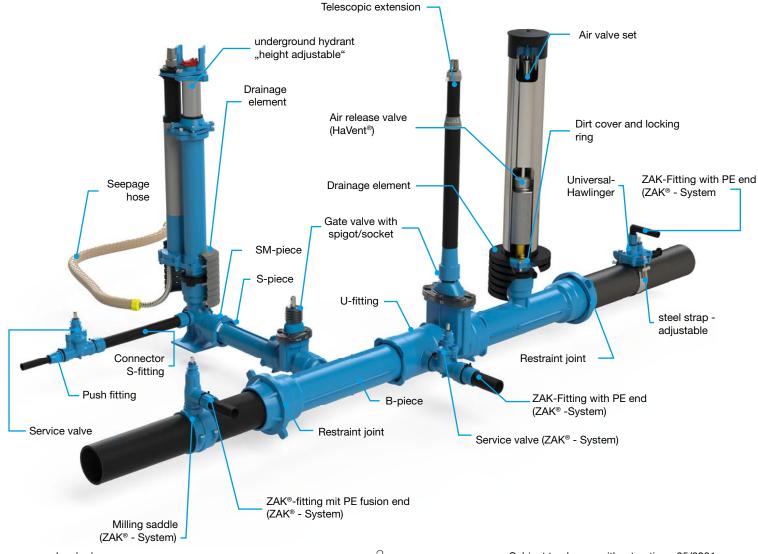
Significant advantages of Threadless Connection

For decades, the connection of pipes and pipe fittings in buried pipeline construction has been mainly effected via flangeless connections as this connection technology has both technical and economical advantages over conventional flanged and welded connections. In the past, threaded connections were used in the construction of service lines. The bare transition areas typical of in this way of connection were susceptible to contact corrosion causing incrustation which often permanently damaged the connection and the sealing

Therefore, in the early 1980s, Hawle Armaturen GmbH developed the Hawle BAIO® system with a view to affording customers a simple and stress-relieved installation of pipeline elements and valves, while simultaneously ensuring a long service life of the system due to integral

corrosion protection. This idea was also the basis of the Hawle ZAK® system for the service line sector to provide for a long service life of the service system in this field, too. Meanwhile, both connection technologies have become widely accepted as the state of the art.

These generally acknowledged advantages can be fully applied to the connection between pipelines and valves, as well as between valves. Beside the technical advantages of the threadless connection technology, the economic benefits of this push-fit socket technology must be emphasized. In case of the Hawle BAIO® system, the savings are due to the compact design facilitating storage and transport, as well as the considerably shorter installation times compared with conventional flanged and welded connections.



Technical Features of the BAIO®-System

A Comparison of the BAIO®-System with flanged fittings

Flange-System: 307 components



BAIO®-System: 7 components



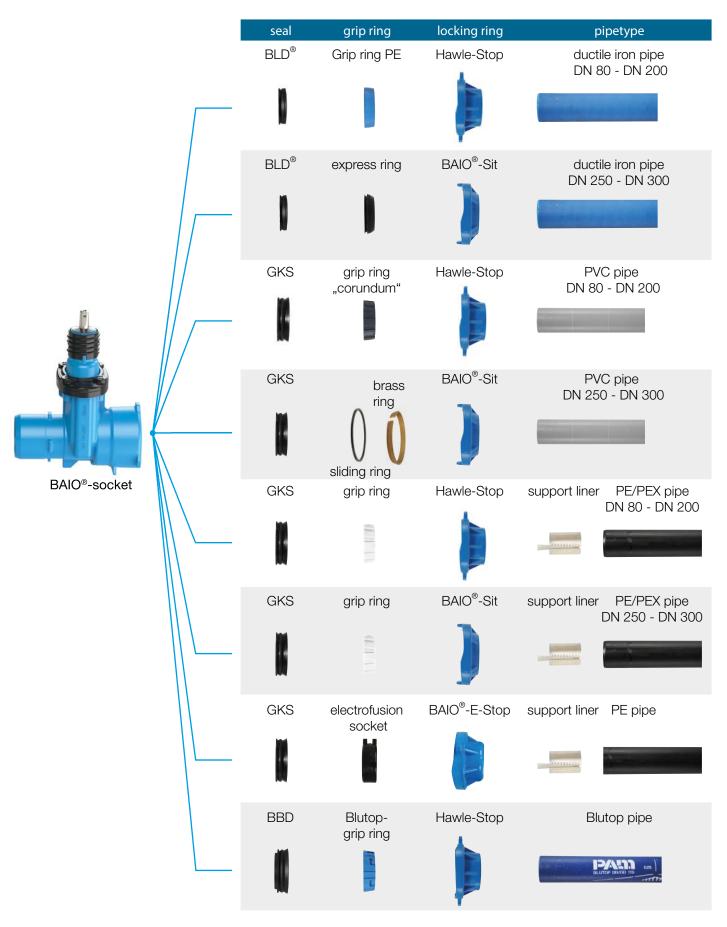
Technical features of the BAIO®-System:

- · Medium: drinking water, sewage and gas
- Nominal widths 80 DN 300
- Max. operating pressure 16 bar
- · Easy and time-saving installation
- Low number of components and connections
- Push-fit socket connection can be bended to all sides (up to 3° per spigot/socket connection)
- Stress-relieved when installed
- Low storage costs
- Restraint joint with Hawle Stop without the need for earthing
- integral high-quality corrosion protection due to Hawle epoxy powder coating
- Universal use with CI, steel*, PE, PVC and AC** pipes (* with steel welding tail 452-01, ** with Cut-in socket fitting 530-01 and 530-03)

ONE socket - FOUR pipe types: cast iron, PVC, PE and steel (use 452-01 steel weld-in ends). Depending on the type of pipe, different seals and restraining joints are to be used for force locking pipes longitudinally and compactly in BAIO® sockets. Please note the following overview

^{***} Support liners must be used when conncting PE pipes.

1 Push-fit Socket - 4 Types of Pipes



1 individual components: BAIO®-System



1 x MMB Combi-T gate valve

137 individual components: Flange-System



1 x T-fitting 32 x Bolts

1 x Gate valve 32 x Nuts

3 x EU-fitting 64 x Washers

4 x Flat gaskets

1 individual components: BAIO®-System



1 x MMB Combi- T gate valve

69 individual components: Flange-System



1 x Double soket tee	16 x Bolts
1 x Gate valve	16 x Nuts
1 x EU-fitting	32 x Washers
2 x Flat gaskets	

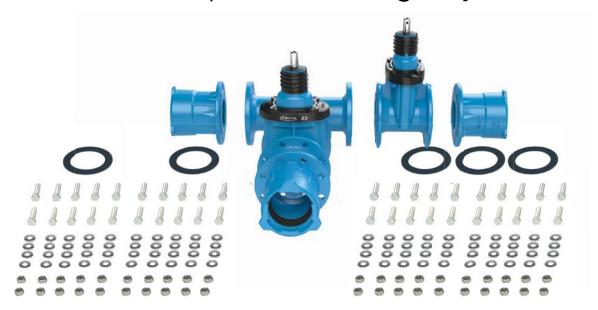
2 individual components: BAIO®-System



1 x MMB Combi- T gate valve

1 x HSM gate valve

171 individual components: Flange-System



1 x T-fitting 40 x Bolts

2 x Gate valves 40 x Nuts

3 x EU-fitting 80 x Washers

5 x Flat gaskets

1 individual components: BAIO®-System



1 x Gate valve

69 individual components: Flange-System



1 x Gate valve	16 x Bolts
2 x EU-fitting	16 x Nuts
2 x Flat gaskets	32 x Washers

3 individual components: BAIO®-System



1 x MMB Combi- T gate valve

2 x HSM gate valve

205 individual components: Flange-System



1 x T-fitting 48 x Bolts

3 x Gate valves 48 x Nuts

3 x EU-fitting 96 x Washers

6 x Flat gaskets

5 individual components: BAIO®-System



1 x Combi- T gate valve

1 x Underground hydrant

1 x Standard tee

2 x Gate valve with spigot/socket



2 x T-fitting	9 x Flat gasket
1 x Flanged pipe fitting	72 x Bolts
3 x Gate valves	72 x Nuts
3 x EU-fitting	144 x Washers
1 x Underground hydrant	



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