

Technical Data Sheet

SBF-SECA[®] riser pipe



Product description:

For the temperatures encountered in groundwater wells, the riser pipe is resistant to all types of groundwater, sea water and brine. The material can withstand even diluted acids and alkalis.

Product properties:

- Material: PVC-U
- Construction lengths: 0.5 / 1 / 2 / 3 / 4 m
- Connection type: Trapezoidal thread (sleeve/trunnion with safety cap)
- Sealing: NBR
- Pressure rating: PN 16
- Max. insertion depth: 100 m (depending on the pump output)



Advantages of the product:

- Trapezoidal thread can be screwed shut manually within seconds
- Unique torsion protection against unwanted unscrewing
- Reliable sealing of the connection by the sealing ring inserted at the factory
- Extremely slim design allows installation in wells starting from DN 80
- Significantly lower pipe friction losses than comparable steel pipes
- Low weight, maintenance and corrosion-free
- Safe drinking and raw water

Physical material properties:

Properties			Test method
approx. modulus of elasticity	N/mm ²	2500 to 3000	DIN EN ISO 178
Notch impact strength at 23°C	kJ/m ²	5 to 10	DIN EN ISO 179
approx. density	g/cm ³	1.4	DIN 53479
approx. yield stress	N/mm ²	45 to 55	DIN EN ISO 527-2
Impact strength		Max. 10% break	Based on DIN EN ISO 179
approx. Vicat-softening temperature	°C	80	DIN EN ISO 306

Versions:

Nominal width [DN]	Outer pipe Ø [mm]	Wall thickness [mm]	Outer Ø Safety cap [mm]	Adapter pump / riser pipe	Adapter riser pipe / well head
40	48	3.5	76	R 1 1/2"	R 1 1/2"
50	60	5.0	84	R 2"	R 2"
65	75.2	5.6	106	R 2 1/2"	R 2 1/2"
80	90	6.7	125	R 3"	R 3"

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Installation of SBF-SECA[®] pump riser pipes

1. Fit the transition adapter (see fig. 1) in the submersible motor pump and secure with a clamping screw.
2. The packaging and the protective caps of the SBF-SECA[®] pipes must be removed just before installation. Before screwing, the threads and sealing surfaces of the pipe and sleeve must be checked for flawless condition and cleanliness. Check for the presence of the seal ring. Place submersible water pump as close as possible to the well and place the adapter with the first riser pipe.
3. Use the transition adapter to manually screw on and tighten the first pipe to the lifting cap in a hanging position. Make sure that the outer fins of the trunnion and sleeve are aligned (see fig.2). Push the safety cap over the trunnion and sleeve. Make sure that the safety cap engages under the sleeve edge.
4. Lift the submersible pump with the transition adapter and the first SBF-SECA[®] pipe. Mount the submersible pump centering.
5. The pipes can be intercepted under the sleeve edge after the lowering. To prevent a dynamic load on the pipe tour, it must be carefully and slowly lowered. Before lowering the pipe route and after lifting it, loosen the safety clamp and push the safety cap over the trunnion and the sleeve. Make sure that the safety cap engages under the sleeve edge.
6. The further connection of the SBF-SECA[®] pipes to each other is done in the same manner as described above.
7. The pipe section must be provided directly above the submersible pump and then about 8 m with centering. (Observe assembly instructions for centering).
8. Connect the submersible pump cable with cable clamps tightly above and below the connection.
9. After installation of the last riser pipe, install the transition adapter to the well head (see fig. 3) and secure with the clamping screw. Do the pipe connection as shown. The installation of a backflow preventer above the riser line is strongly recommended due to possible water hammers.

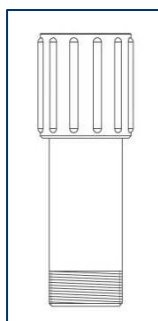


Fig. 1

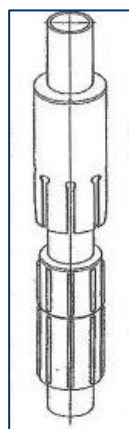


Fig. 2

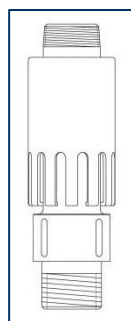


Fig. 3