

FRANK puddle flanges

The original

In the early 1980s, FRANK developed and patented the FRANK puddle flange, a sealing system in use today in millions of buildings and structures all over the world. The original.

The FRANK puddle flanges, suitable for all standard pipes in steel, plastic, stoneware, concrete and cast iron from d 20 to d 3200, have been specifically designed for the pressure-tight installation of pipelines in concrete walls, foundation plates and manholes. FRANK puddle flanges are pressure-tight up to 10 bar, preventing the ingress of pressurised water, diffusing

media such as gases (e.g. radon) and hydrocarbons (e.g. oil, petrol). The FRANK puddle flange is an extremely flexible product available in a range of versions. A perfect solution for any application! Easy to install. Cost-effective alternative to conventional sealing systems.



Installation

Quick and easy

Installing a FRANK puddle flange takes only a few minutes.

The puddle flange is mounted by hand on the pipe and secured with the supplied clamping bands as described in the installation instructions. A screwdriver can be used to install the clamping band on pipes of up to 315 mm in diameter. For larger pipes, use a clamping tool.

FRANK puddle flanges are not designed to serve as anchor points for pipes. For strong PE or PP wall ducts, FRANK offers special sections with single-side or double-side flanges.









Now with Easy-Lock function

Our puddle flange installation kits (d 20 to d 315) now come with an Easy-Lock function that allows for even faster installation on the pipe.









Protection against radioactive gas

Radon-resistant, gas-tight puddle flanges from FRANK

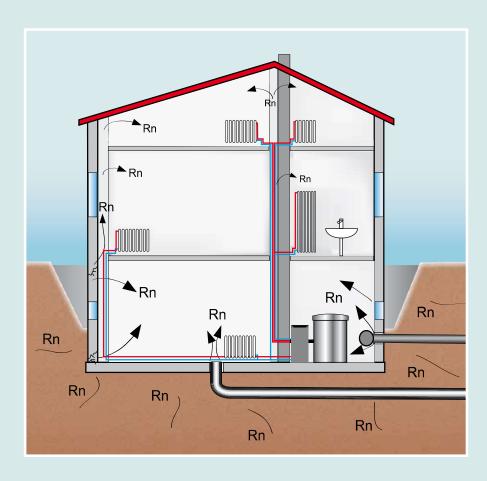
Radon is a naturally occurring radioactive gas and comes from the natural radioactive decay of uranium and thorium. These metals occur naturally in bedrock and the release of radon therefore depends on the local geology. You cannot see, smell or taste radon.

The gas diffuses through the soil and is released into the atmosphere where it is found in very small concentrations. Out-

side of buildings, radon is therefore not a problem. The gas can however enter buildings, for example through cracks and joints, defective foundation plates in the basement or the ground floor, or along cable and pipe ducts. In this case, the radon concentration builds up gradually, often exceeding the limit values recommended by the German Federal Office for Radiation Protection. Tight foundations,

solid constructions and special ventilation measures help keep the radon concentration in buildings low.

When installing pipes and cable ducts through building walls, we therefore recommend using the special orange FRANK puddle flanges which are tested for radon-tightness.



Pressure-tight up to 10 bar!

Safe and versatile

Externally tested and certified

The independent testing institute Materialprüfanstalt MFPA Leipzig GmbH has tested the pressure-tightness and sealing capability of FRANK puddle flanges. Depending on the diameter, FRANK puddle flanges are proven to be tight up to pressures between 8 and 10 bar.

Characteristics

FRANK puddle flanges made in EPDM

EPDM is chemically resistant to a wide range of acids and bases. It also offers outstanding weather and ozone resistance. For applications in connection with oil and petrol, FRANK puddle flanges made in NBR are the preferred option.

Density	1,030 kg /m³
Shore hardness	40° Sh <u>+</u> 3
Tensile strength	10 N/mm²
Elongation at fracture	750 %
Tear propagation strength	3.9 N/mm²
Temperature resistance	-50+140 °C
Deformation under pressure (72 h, 70 °C)	32 %

Choosing the right pipe FRANK products for all applications

The FRANK puddle flange can be installed on any type of pipe material, from plastic, steel and stoneware to concrete, cast iron, fibre cement or GFRP. The FRANK puddle flanges are available for all conventional outside diameters.

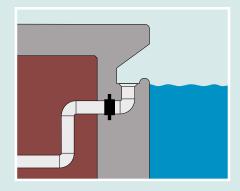




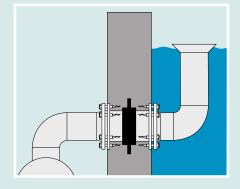
Successfully installed 1.5 million times throughout the world

Examples of applications

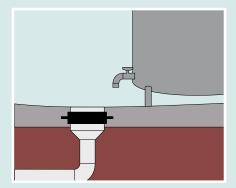
 Swimming pool drain pipes in walls and foundation plates

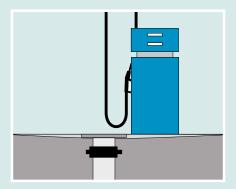


 Pre-fabricated wall leadthrough with flange connectors on both sides for easy installation into formwork

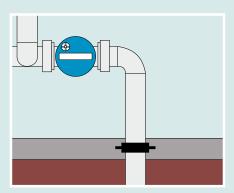


 Floor drain in industrial building

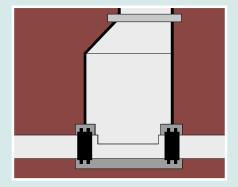




 FRANK puddle flange made in oil- and petrol-resistant NBR at a filling station



 House lead-ins for water supply and discharge pipes



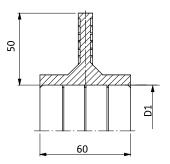
 Integration of pipes of any outside diameter into concrete manholes

Product range

Puddle flange installation kit (d 20 to d 315) tight up to 100 m water head

Puddle flange installation kit consisting of:

- 1x puddle flange
- 2x stainless steel clamping bands (matching flange dimensions)



d _{pipe} [mm]	Ø range of installation kit [mm]	D ₁ [mm]	Weight [kg/unit]	Installation kit product no. 90 954
20	20-24	16	0.20	0020 01
25	25-29	21	0.25	0025 01
32	32-36	29	0.45	0032 01
40	40-44	38	0.5	0040 01
50	50-55	48	0.6	0050 01
63	63-69	60	0.7	0063 01
75	75-82	71	0.8	0075 01
90	90-97	84	0.9	0090 01
100	98-109	95	0.9	0100 01
110 ¹⁾	110-121	105	1.0	0110 01
125 ¹⁾	125-137	120	1.1	0125 01
140	138-155	132	1.2	0140 01
160 ¹⁾	160-170	154	1.3	0160 01
180	180-190	173	1.5	0180 01
200 ¹⁾	200-224	195	1.6	0200 01
225	225-249	215	2.1	0225 01
250	250-279	245	2.3	0250 01
280	280-314	275	2.5	0280 01
315	315-354	310	2.8	0315 01

Other dimensions available on request.
All dimensions also available in NBR.

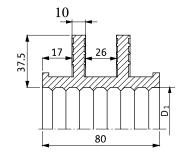
1) NBR version available in stock.



Puddle flange (from d 355) tight up to 80 m water head

Puddle flange and clamping band as individual components

- Puddle flange (product no. 90 954 ...)
- Galvanized clamping band, 30 m roll (product no. 97 955 0031 00)
- Stainless steel fastener for clamping band (product no. 95 957 0000 00), 3 steel fasteners per puddle flange
- Clamping tool available for rent or purchase (product no. 95959 0000 00)



d _{pipe} [mm]	Ø range [mm]	D ₁ [mm]	Clamping band length per puddle flange L [m]	Weight [kg/unit]	Product no. 90 954
355	355-399	310	7.8	1.32	0355 00
400	400-449	353	8.7	1.66	0400 00
450	450-499	400	9.9	1.80	0450 00
500	500-559	448	11.1	2.15	0500 00
560	560-629	505	12.3	2.30	0560 00
630	630-709	571	13.8	2.55	0630 00
710	710-799	648	16.2	2.64	0710 00
800	800-899	733	17.1	3.22	0800 00
900	900-999	828	18.0	3.60	0900 00
1000	1000-1150	923	19.8	3.88	1000 00
1200	1200-1350	1113	23.7	5.64	1200 00
1400	1400-1550	1303	28.0	6.44	1400 00
1600	1600-1750	1490	31.9	7.25	1600 00
1800	1800-1990	1680	38.0	8.20	1800 00

Other dimensions available on request.



Product range

FRANK manhole connection socket SAM type 1

- Tight up to 100 m water head, depending on diameter
- For tight connections of PE pipes in concrete manholes
- With integrated electrofusion wire for the welding of SAM manhole connection socket to the PE pipe

d [mm]	DN [mm]	L [mm]	D ₂ [mm]	Tightness	Prod. no. 25 178
160	150	135	297	100 m water head	0160 17
225	200	135	372	100 m water head	0225 17
280	250	135	445	100 m water head	0280 17
355	300	135	515	80 m water head	0355 17
450	400	135	573	80 m water head	0450 17
560	500	135	699	80 m water head	0560 17





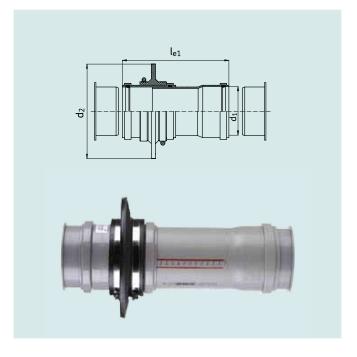
Other dimensions available on request.

FRANK wall installation kit

The FRANK wall installation kit is designed for the installation of standard sewerage and HT pipes in concrete walls and floors. The wall installation kit is a pre-assembled unit for the flush integration into the shuttering for concrete walls. By shortening the centre section, the wall installation kit can be adjusted to match the wall thickness. For very thick walls, the kit can be extended with a standard sewerage/HT pipe section. The system is tight up to 100 m water head.

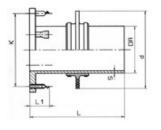
d ₁ [mm]	d ₂ [mm]	l _{e1} [cm]	Product no. 90 970
110	216	21 - 30 cm	0110 00
160	268	26 - 33 cm	0160 00

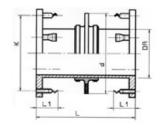
Other dimensions available on request. Other lengths available on request.



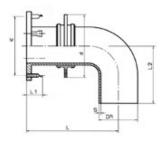
FRANK wall lead-through kit with flange connections

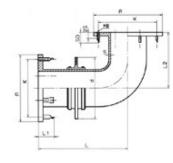
The FRANK wall lead-through kit is a tried and tested method for the safe and long-lasting installation of pipes through walls and floors. Made in PE or PP, they meet the requirements for swimming pools and industrial pipeline systems. The pre-assembled kit can be easily installed in the wall or foundation plate.

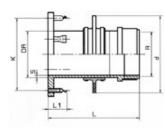


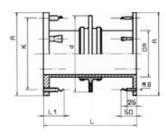












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