



PROFACTOR®
DER DEUTSCHE QUALITÄTSSTANDARD

EN

TECHNICAL DATA SHEET AND USER MANUAL

PRODUCT CODE

PF RBP 566-601
PF RBA 600.95 –
PF RBA 600.113
PF DV 560
PF DV 561
PF RP 562
PF RP 563
PF RN 564
PF RB 554R-556R
PF RB 554L-556L
PF RP 557R-557L
PF RW 559
PF RR 558
PF RK 550-553



RADIATOR ACCESSORIES

1. PURPOSE AND SCOPE

All components are designed for the installation of aluminum and bimetallic radiators with G1" internal connection threads on the upper and lower manifolds.

These products are used in heating systems where the heat carrier is water or other non-aggressive liquids compatible with the materials of the product, as well as in systems using low-freezing heat transfer fluids.

2. TECHNICAL SPECIFICATIONS

Product Code	PF	DV 560, DV 561, RP 562, RP 563	RP 554 R/L, RP 555 R/L, RP 556 R/L, RP 557 R/L
Maximum working pressure	bar	10	15
Maximum heat carrier temperature	°C	+110°C	

Maximum permissible load on brackets when mounted in a brick or concrete wall:

Product Code	PF	RBP 566, RBP 568, RBP 601	RBP 567, RBP 569	RBP 570	RBA 600.95	RBA 600.100	RBA 600.113
Maximum load	kg	35	42	40	31,5	30	26,5

3. DESIGN

All cylindrical pipe threads are in an accordance with ISO 228-1:2000, DIN 259, and all metric threads are in an accordance with ISO 261:1998.

The body and shut-off screw of the manual air vent valve, as well as the body of the radiator plug bushing, are made of brass grade CW614N (according to DIN EN 12165-2011), with nickel-plated surfaces.

The caps of the manual air vent valve and the radiator plug bushings are made of impact-resistant engineering thermoplastic (acrylonitrile butadiene styrene, ABS), while the sealing rings are made of ethylene-propylene rubber (EPDM). A more detailed description of the manual air vent valve is provided in the corresponding technical passport.

The intersection radiator nipple is designed to connect sections of aluminum and bimetallic radiators used in water-based heating systems. The connector is made of carbon steel with zinc galvanic coating and has a right-hand (D) thread on one end and a left-hand (S) thread on the other.

The radiator through bushings and radiator plugs are made of galvanized steel with a 70 µm galvanic coating, finished with white epoxy enamel (RAL 9016). The bushings are designed for connecting pipelines and fittings to aluminum and bimetallic radiators with a nominal bore diameter DN25 mm and a 1" thread.

For sealing the connection with the radiator, the bushings and plugs are equipped with Silastic GP (PF RR 558) silicone O-rings, which can also be purchased separately. Depending on the radiator connection side (left or right), the radiator bushings and plugs are available with either right-hand (D) or left-hand (S) threads.

All brackets are made of galvanized carbon steel coated with white epoxy enamel (RAL 9016). The straight brackets (models PF RBP 566–570) are supplied with polypropylene (PP-R) wall plugs.

The universal key for radiator fittings (PF RW 559) is made of glass fiber-reinforced nylon.

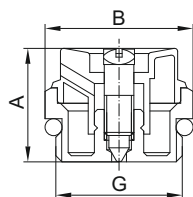
Contents of the universal installation kits for aluminum and bimetallic radiators (PF RK 550, PF RK 551):

1. Manual air vent valve PF DV 560/561 — 1 pc.
2. Radiator plug bushing PF RP 562/563 — 1 pc.
3. Left through radiator bushing with silicone sealing ring PF RB 555L/556L — 2 pcs.
4. Right through radiator bushing with silicone sealing ring PF RB 555R/556R — 2 pcs.
5. Manual air vent valve key 5×5 mm (acrylonitrile butadiene styrene, ABS) — 1 pc.
6. Radiator bracket PF RBP 568 — 2 pcs.
7. Wall plug for bracket — 2 pcs.

Contents of the universal installation kits for aluminum and bimetallic radiators
(PF RK 552, PF RK 553):

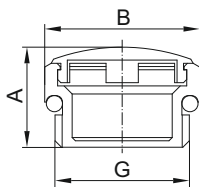
1. Manual air vent valve PF DV 560/561 — 1 pc.
2. Radiator plug bushing PF RP 562/563 — 1 pc.
3. Left through radiator bushing with silicone sealing ring PF RB 555L/556L — 2 pcs.
4. Right through radiator bushing with silicone sealing ring PF RB 555R/556R — 2 pcs.
5. Manual air vent valve key 5×5 mm (acrylonitrile butadiene styrene, ABS) — 1 pc.

4. NOMENCLATURE AND DIMENSIONS



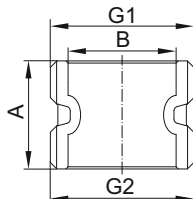
Manual air vent valve

Product Code	G	A, mm	B, mm	Weight, g
PF DV 560	1/2"	19	24	19
PF DV 561	3/4"	19	28	28



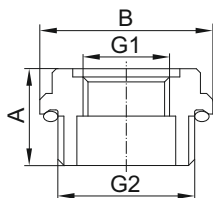
Radiator plug bushing

Product Code	G	A, mm	B, mm	Weight, g
PF RP 562	1/2"	17	24	14
PF RP 563	3/4"	18	28	20



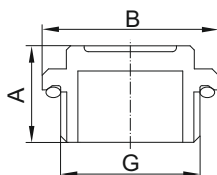
Galvanized intersection radiator nipple

Product Code	G1xG2	A, mm	B, mm	Weight, g
PF RN 564	1"Dx1"S	25	25	48



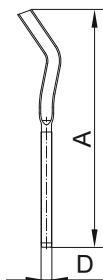
Radiator bushing

Product Code	G1xG2	A, mm	B, mm	SW, mm	Weight, g
PF RB 554R	3/8"x1"D	23,5	42	32	85
PF RB 554L	3/8"x1"S	23,5	42	32	85
PF RB 555R	1/2"x1"D	23,5	42	32	80
PF RB 555L	1/2"x1"S	23,5	42	32	80
PF RB 556R	3/4"x1"D	23,5	42	32	60
PF RB 556L	3/4"x1"S	23,5	42	32	60



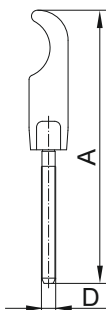
Right/left radiator plug

Product Code	G	A, mm	B, mm	SW, mm	Weight, g
PF RP 557R	1"D	23	42	28	90
PF RP 557L	1"S	23	42	28	90



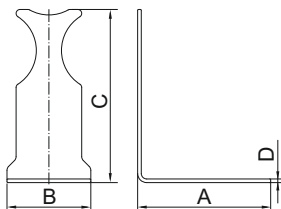
Radiator bracket (set of 2 pcs.)

Product Code	A, mm	D, mm	Weight, g
PF RBP 568	165	7	115
PF RBP 569	170	9	165
PF RBP 601	230	9,2	230



Flat radiator bracket (set of 2 pcs.)

Product Code	A, mm	D, mm	Strip thickness, mm	Weight, g
PF RBP 570	180	9	2,5	155



Angled radiator bracket (set of 2 pcs.)

Product Code	A, mm	B, mm	C, mm	D, mm	Weight, g
PF RBA 600.95	73	47	95	2	180
PF RBA 600.100	73	47	100	2	185
PF RBA 600.113	73	47	113	2	195

Radiator brackets

Product Code	Length, mm	Diameter, mm	Weight (in packaging), g
PF RBP 566	165	7	140
PF RBP 567	170	9	190

Silicone ring for radiator bushings and plugs

Product Code	Outer diameter, mm	Inner diameter, mm	Diameter, mm	Weight g
PF RR 558	38	31	2,5	1

Radiator installation kit with brackets

Product Code	Size, mm	Weight (in packaging), g
PF RK 550	1/2"	530
PF RK 551	3/4"	460

Radiator installation kit

Product Code	Size, mm	Weight (in packaging), g
PF RK 552	1/2"	410
PF RK 553	3/4"	330

Universal key for radiator fittings

Product Code	Size, mm	Weight g
PF RW 559	32x28x25x22	120

5. INSTALLATION INSTRUCTIONS

Connection of bushings, plugs, end caps, and the manual air vent valve to the radiator should be carried out using the plastic key for radiator bushings and plugs (PF RW 559). The tightening torque must not exceed:

18 Nm for the manual air vent valve,
20 Nm for the radiator plug,
25 Nm for the bushings and radiator end caps.

The use of additional sealing materials is not required.

Installation of the intersection nipple should be performed using a radiator spade key with a blade width of 24 mm. The tightening torque must comply with the manufacturer's specifications for the radiators.

Angled brackets should be fixed to concrete or brick walls using screws with a diameter of at least 5 mm and a length of at least 50 mm. Radiator plugs and bushings with silicone gaskets have a special groove for the gasket, therefore the use of other types of gaskets is prohibited.

The connection of the pipeline to the radiator bushings must be made using PTFE-tape (polytetrafluoroethylene), polyamide thread with silicone, or flax fiber as the sealing material.

6. OPERATING AND ADJUSTMENT

All products must be operated without exceeding the parameters specified in the technical specifications table.

Air release from the radiator is performed by unscrewing the shut-off screw of the manual air vent valve using a flathead screwdriver or a special 5×5 mm key. It is recommended to turn the valve cap so that the discharge opening is accessible, and place a small container underneath to collect a small amount of the discharged heat carrier.

IMPORTANT: When bleeding air from the radiators, it is strictly forbidden to use an open flame nearby, as the released air may contain a high concentration of hydrogen, which is generated by the reaction between water and aluminum in an alkaline environment.

Air must be released until the heat carrier begins to flow steadily from the outlet, after which the shut-off screw should be tightened.

7. WARRANTY OBLIGATIONS

The warranty period is 24 months from the date of sale to the end consumer. Throughout the entire warranty period, the manufacturer guarantees the proper functioning of the product and its compliance with safety requirements, provided that the consumer follows the rules for storage, transportation, installation, operation, and maintenance of the product. The warranty covers all defects arising through the manufacturer's fault.

The warranty does not cover defects resulting from:

- Violation of storage, transportation, installation, operation, or maintenance conditions;
- Exposure to substances aggressive to the materials of the product;
- Signs of mechanical damage;
- Damage caused by fire, natural disasters, or other force majeure circumstances;
- Damage caused by improper actions of the user;
- Evidence of unauthorized interference with the product design.

The product described in this technical manual is a technically complex device that must be installed by a qualified specialist with appropriate experience working with this type of equipment.

Installation and commissioning must be carried out by an authorized and certified company.

Profactor Armaturen GmbH reserves the right to make changes to the product design that do not affect its technical characteristics or functional features.



INTERNATIONAL WARRANTY CARD

NAME OF THE PRODUCT

PRODUCT CODE, SIZE

QUANTITY

SELLER NAME AND ADDRESS

DATE OF PURCHASE

SELLER STAMP

SELLER SIGNATURE

For the warranty term refer to the Warranty obligation clause in the technical manual

FOLD LINE

FOLD LINE

In case of any claims to the product quality the following documents should be submitted:

1. Application with customer and product details:

- Name of the customer, actual address and phone number
- Article of the product
- Reason for the claim and photo
- Plumbing system where installed (name, address, phone number)

2. Invoice copy and receipt

3. Warranty card

RETURN/EXCHANGE COMMENTS

DATE

SIGNATURE



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