



PROFACTOR®
DER DEUTSCHE QUALITÄTSSTANDARD

EN

TECHNICAL DATA SHEET AND USER MANUAL



PRODUCT
CODE

PF TF 52C –
PF TF 211C

**CHROME-PLATED
THREADED FITTINGS**

1. PURPOSE AND SCOPE

Brass threaded fittings are designed to create connections (including detachable ones) during the installation of various pipeline systems — such as water supply, heating, compressed air, and other systems operating with media that do not cause chemical degradation of the fitting material.

The universal design of the fittings allows their use with steel, copper, brass, polypropylene, multilayer composite, and other types of pipes.

2. TECHNICAL SPECIFICATIONS

Product Code	PF TF	52C – 179C; 203 – 211C	184C – 194C
Nominal size	DN, mm	10, 15, 20, 25, 32	15, 20, 25, 32
	G	3/8" – 1¼"	1/2" – 1¼"
Nominal (rated) pressure, PN	bar	40	25
	Mpa	4,0	2,5
Maximum operating medium temperature, Tmax	°C	200	120
Average service life	years	40	30

3. DESIGN

The fittings are manufactured by hot forging and turning from brass CW617N (DIN EN 12165).

For aesthetic appearance and additional corrosion protection, some PROFACTOR® fitting models are produced in a fully chrome-plated version. Before the chrome coating is applied, the external surfaces are ground and polished, resulting in a perfectly smooth, mirror-like finish.

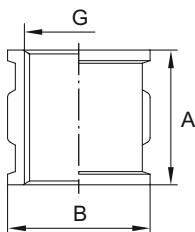
All cylindrical pipe threads are in an accordance with DIN EN ISO 228-1, and all metric threads are in an accordance with DIN ISO 261.

The fittings are manufactured in reinforced configurations with increased wall thickness and thickened end flanges. The external threads of the fittings have serrations to improve the adhesion of the sealing material during installation.

The sealing rings of the PF TF 184C – 194C detachable connections comply with DIN ISO 3601. The ring material is synthetic rubber EPDM.

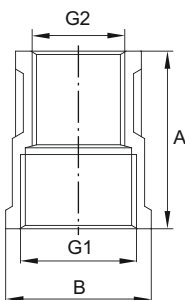
The mixer eccentric fitting PF TF 203 with flat gaskets made of synthetic butadiene-nitrile rubber (NBR) and includes a decorative escutcheon made of chrome-plated stainless steel AISI 201.

4. NOMENCLATURE AND DIMENSIONS



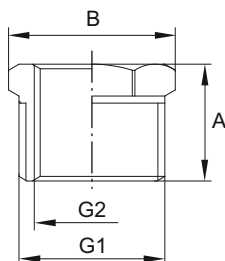
Socket

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 52C	1/2"	15	29	27,5	49
PF TF 53C	3/4"	20	32	34	77
PF TF 54C	1"	25	34	42	114



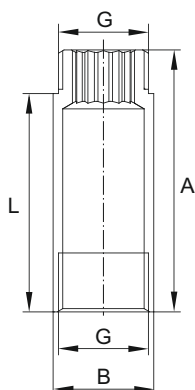
Reducing socket

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 62C	1/2"	15	3/8"	10	27	27	40
PF TF 63C	3/4"	20	1/2"	15	29	34	64
PF TF 64C	1"	25	1/2"	15	32	42	97
PF TF 65C	1"	25	3/4"	20	34	42	103



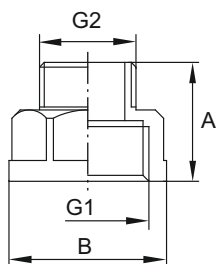
Reducing bush

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 82C	1/2"	15	3/8"	10	17	23,8	18
PF TF 83C	3/4"	20	1/2"	15	18	30,5	32
PF TF 84C	1"	25	1/2"	15	19,5	38	74
PF TF 85C	1"	25	3/4"	20	19,5	38	53



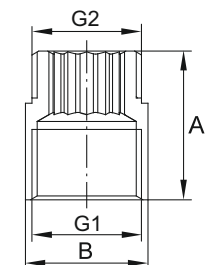
Extension

Product Code	G	DN	L, mm	A, mm	B, mm	Weight, g
PF TF 100.10C	1/2"	15	10	21,5	24,5	31
PF TF 100.15C	1/2"	15	15	26,5	24,5	40
PF TF 100.20C	1/2"	15	20	31,5	24,5	46
PF TF 100.25C	1/2"	15	25	36,5	24,5	53
PF TF 100.32C	1/2"	15	32	43,5	24,5	64
PF TF 100.40C	1/2"	15	40	51,5	24,5	78
PF TF 100.50C	1/2"	15	50	61,5	24,5	93
PF TF 100.60C	1/2"	15	60	71,5	24,5	110
PF TF 100.70C	1/2"	15	70	81,5	24,5	126
PF TF 100.80C	1/2"	15	80	91,5	24,5	140
PF TF 100.90C	1/2"	15	90	101,5	24,5	158
PF TF 100.100C	1/2"	15	100	111,5	24,5	173
PF TF 101.15C	3/4"	20	15	27	30,5	58
PF TF 101.25C	3/4"	20	25	37	30,5	81
PF TF 101.40C	3/4"	20	40	52	30,5	118



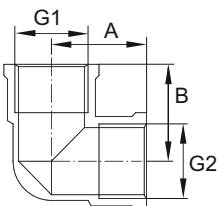
Reducing extension F/M

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 103C	1/2"	15	3/8"	10	25,5	27,5	39
PF TF 104C	3/4"	20	1/2"	15	27	34	57
PF TF 105C	1"	25	1/2"	15	29,5	42	82
PF TF 106C	1"	25	3/4"	20	29,5	42	90



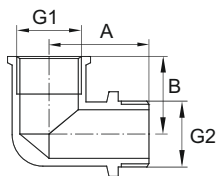
Reducing extension 1/2"xM22 F/M

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 116C	1/2"	15	M22x1.5	—	26,5	24,5	42
PF TF 117C	M22x1.5	—	1/2"	15	26,5	25,5	37



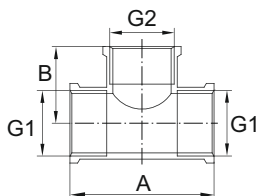
Elbow F/F

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 121C	1/2"	15	1/2"	15	25	25	77
PF TF 123C	3/4"	20	3/4"	20	27	27	107
PF TF 126C	1"	25	1"	25	32	32	190



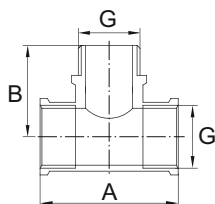
Elbow F/M

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 131C	1/2"	15	1/2"	15	32	24	86
PF TF 132C	3/4"	20	1/2"	15	36	27	107
PF TF 133C	3/4"	20	3/4"	20	36	27	135
PF TF 134C	1"	25	1/2"	15	40	32	175
PF TF 135C	1"	25	3/4"	20	40	32	192
PF TF 136C	1"	25	1"	25	42	32	240



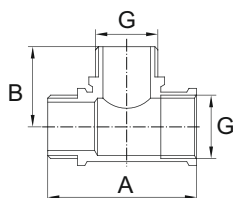
Tee joint F/F/F

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 151C	1/2"	15	1/2"	15	50	25	93
PF TF 153C	3/4"	20	3/4"	20	54	27	138
PF TF 156C	1"	25	1"	25	64	32	252



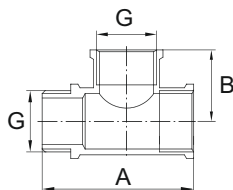
Tee joint F/M/F

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 172C	1/2"	15	50	33	98
PF TF 173C	3/4"	20	54	35	150



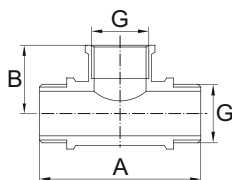
Tee joint M/M/F

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 174C	1/2"	15	52	30	113
PF TF 175C	3/4"	20	57	34	158



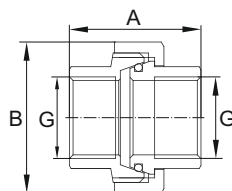
Tee joint F/F/M

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 176C	1/2"	15	55	25	103
PF TF 177C	3/4"	20	60	27	153



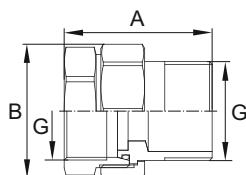
Tee joint M/F/M

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 178C	1/2"	15	56	24	119
PF TF 179C	3/4"	20	64	25	195



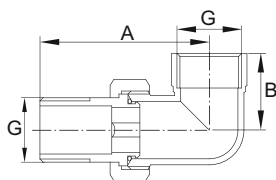
Straight union F/F

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 184.15C	1/2"	15	36,5	40	115
PF TF 184.20C	3/4"	20	42,5	49	205
PF TF 184.25C	1"	25	48,5	56	285
PF TF 184.32C	1 1/4"	32	55	71	500



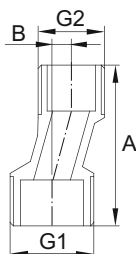
Straight union F/M

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 185C	1/2"	15	42	33	100
PF TF 186C	3/4"	20	47	41	163
PF TF 187C	1"	25	55	49	277
PF TF 188C	1 1/4"	32	66	56	392



Elbow union F/M

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 191C	1/2"	15	46	25	122
PF TF 192C	3/4"	20	54	32	210
PF TF 193C	1"	25	69	38	340
PF TF 194C	1 1/4"	32	80	45	550



Eccentric for mixer with chrome plated escutcheon

Product Code	G1	DN2	G2	DN2	A, mm	B, mm	Weight, g
PF TF 203	3/4"	20	1/2"	15	49	6	78



Barrel nipple

Product Code	G	DN	A, mm	B, mm	Weight, g
PF TF 210.40C	1/2"	15	40	21	42
PF TF 210.100C	1/2"	15	100	21	112
PF TF 211.100C	3/4"	20	100	26,5	160
PF TF 209.100C	1"	25	100	33,5	240

5. INSTALLATION INSTRUCTIONS

For thread sealing, use PTFE-tape, polyamide thread with silicone, flax with special sealing pastes, or other approved sealing materials that ensure joint tightness at the design temperature and pressure of the conveyed medium.

The tightening torque of the union nuts of PF TF 184C–194C detachable connections must not exceed 20 Nm.

After installation, plumbing system assemblies must be tested for tightness using either the hydrostatic (hydraulic) or bubble (pneumatic) testing methods.

6. 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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