# **Product Range**

Variable Area Flow Meters Type 335, Type 350 Short Version Special Version







**GEORG FISCHER** PIPING SYSTEMS



PVC-U	Polyvinyl chloride, unplasticized
PVDF	Polyvinylidene fluoride
PSU	Polysulphone
PA	Polyamide
EPDM	Ethylene Propylene Rubber
FPM	Fluororubber, e.g. Viton®
PTFE	Polytetrafluoroethylene, e.g. Teflon®
d	Pipe outer diameter
DN	Nominal diameter
PN	Nominal pressure at 20° C, water
kg	Weight in kilograms
®	Registered trademark
HP	High Purity
IR	Infrared fusion
WNF/BCF	Wulst- und Nutfrei/Bead & Crevice-Free
GK	Grenzwertkontakt/Limit switch
VAFM	Variable area flow meter

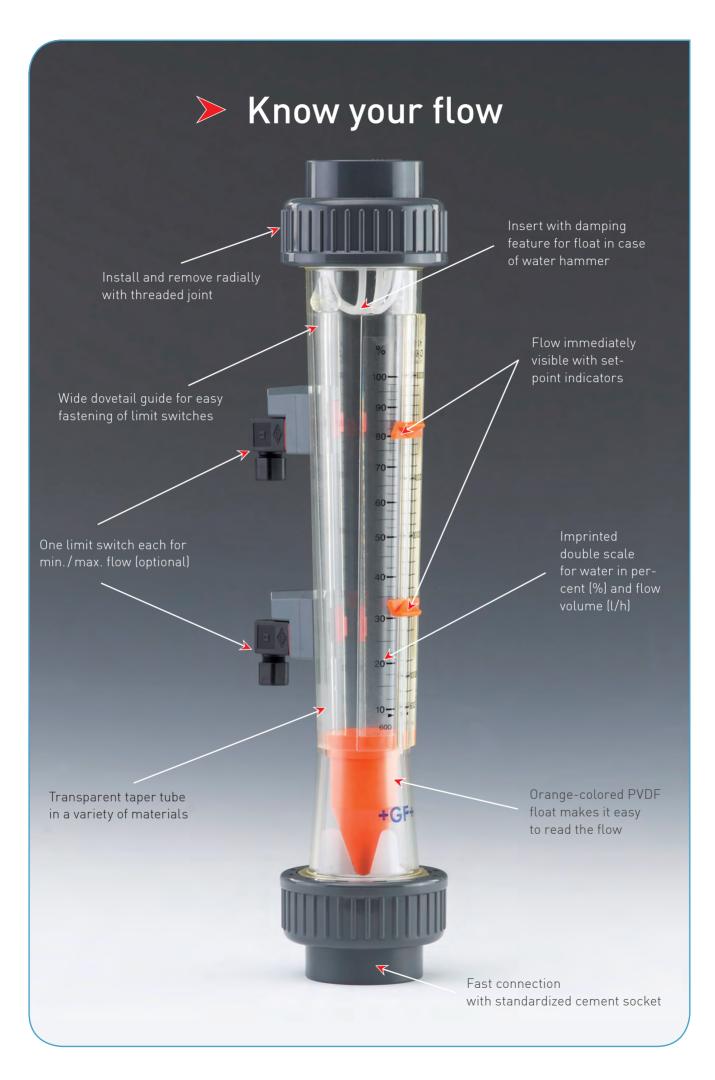
# Dimensions

All dimensions are given in mm.

# Table of Contents

# Variable Area Flow Meter Type 335, Type 350, Short Version, Special Version

Introduction to Variable Area Flow Meters	7
Variable Area Flow Meter Type 335	
- without magnet in the materials PVC-U, PA and PSU	10
- with magnet in the materials PVC-U, PA and PSU	11
Variable Area Flow Meter Type 350	
- without magnet in the materials PVC-U, PA and PSU	12
- with magnet in the materials PVC-U, PA and PSU	13
Variable Area Flow Meter Short Version	
- without magnet in the materials PVC-U, PA and PSU	14
- with magnet in the materials PVC-U, PA and PSU	14
Variable Area Flow Meter Special Version	-
- PVDF HP	15
- PVDF	15
Accessories	
- Limit contacts	16
- Special scales	18
Spare Parts	
- Type 335	23
- Type 350	26
- Short version	30
Adjustment Factors	32



# Easy, accurate and reliable



The Georg Fischer name stands for reliability and durability. Our products guarantee quality, innovation and functionality. The new variable area flow meter continues in this tradition. With the flow meters type 335 and 350, as well as the type series SK- short version and the special versions in PVDF, GF Piping Systems offers radially dismountable measurement devices for flow measurement in industrial piping systems.

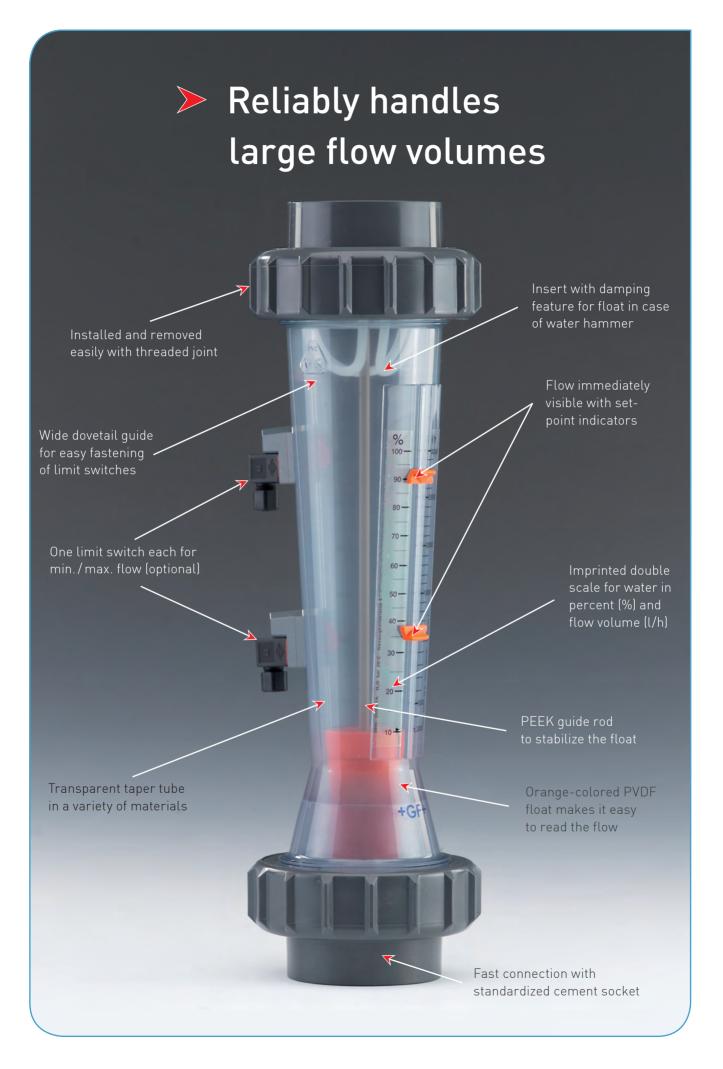
These instruments supply accurate measurement values without an energy source.

# A variety of installation lenghts

The variable area flow meters are now available in the installation length 335 mm, 350 mm, 200 mm, 185 mm and 165 mm. The taper tubes are available in polyamide, polysulphone and transparent PVC-U. The standard floats are in PVDF with or without magnet. The end stops are in PVDF. The threaded joint including insert is available in PVC-U, as well as in PP or ABS on request. The 0-rings are made of EPDM or FPM. The nominal pressure is 10 bar at 20°C.

# Broad fields of applications

All the flow meters are equipped with a double scale: a percentage scale as well as a scale for the flow volume. The standard scale is printed in l/h. Special scales are on offer for m3/h, GPM, in addition to special graduations for HCl, NaOH and air and can be affixed on taper tubes without scales subsequently. Measuring accuracy falls in the accuracy class 4 according to VDE/VDI 3513 Sheet 2. The variable area flow meters from GF Piping Systems appear with a new design. With the type 350 the range of products has been enfarged by a new installation length. The different installation lengths in a variety of materials and special designs offer optimal solutions for use in diverse media.



# General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

## General

- These General Conditions shall apply to all Products supplied by Georg Eischer to the Purchaser
- 1.2
- They shall also apply to all future business even when no express reference is made to them Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer. 13 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.
- 2 Tenders
- Tenders shall only be binding if they contain a specifically stated period for acceptance Scope of Delivery
- Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

# Data and Documents

- Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change. 6.1
- All technical documents shall remain the exclusive property of Georg Fischer and may only be 42 used for the agreed purposes or as Georg Fischer may consent

# Confidentiality, Protection of Personal Data

- Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing w the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied. 51 with
- In the context of the contractual relation with the Purchaser personal data may be processed. The 52 Purchaser agrees to the disclosure of said data to third parties such as foreign subsuppliers etc

### Local Laws and Regulations, Export Controls

- The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to 6.1 relevant safety regulations and approval procedures
- 62 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations

### Price **7** 7.1

- Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms Unless agreed otherwise, the prices shall be deemed quoted net ex works laccording to Incoterm of the ICC, latest version including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and importlicences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duites etc. connected with the contract. If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of
- 72 order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs

## Terms of Payment

- The Purchaser shall make payment in the manner agreed by the parties without any deductions 8.1
- such as discourts, costs, taxes or dues. The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser. In particular, payment shall still be made when unessential items are still out-standing provided 8.2 that the Products already delivered are not rendered unusable as a result

# Retention of Title

- The Products shall remain the property of Georg Fischer until the Purchaser shall have settled
- all claims, present and future, which Georg Fischer may have against him. Should the Purchaser resell Products to which title is reserved, in the ordinary course of busi-ness, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables. To the extent the value of the Products to which title is reserved together with collateral securities
- 93 exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

#### 10 Deliverv

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technic issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended: if Georg Fischer are not supplied in time with the information necessary for the execution of the
- al
- o contract or if subsequent changes causing delays are made by the Purchaser. if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which bl renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads. Should the effect of force majeure exceed a period of six months, either party may cancel the contract forthwith

Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting theref-

- rom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date. if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the c] greed securities
- 13.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one month which equally is not met. The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of
- the delayed delivery
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for
- despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to liquidated damages in the amount of 10% of the contract price, Georg Fischer>s right to prove and claim higher damage remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage

11 Packing If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

# Passing of Risk

- The risk in the Products shall bass to the Purchaser as soon as they have left Georg Fischer's works [EX WORKS, Incoterms ICC, latest version], even if delivery is made carriage-pairs similar clauses or including installation or when carriage is organized and managed by Georg Eischer
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

#### 13 Carriage and Insurance

- Unless agreed otherwise, the Purchaser shall bear the cost of carriage. The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without 13.3 responsibility, by the quickest and cheapest method possible.
- responsibility, by the quickest and cheapest method possible. In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him. 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not
- early accertainable damages sustained during carriage shall be notified to the carrier within six days after receipt of the Products.

- Inspection, Notification of Defects and Damages The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within 14.2
- Vorking days after discovery, in any event within the agreed warranty period.
  Vorking are shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage prior to commencement of remedial work, either itself or by third party experts.

## Warranty

At the written request of the Purchaser, Georg Fischer undertake to repair or replace at their discretion, as quickly as possible and free of charge all Products supplied which demonstrably suffer from faulty design, materials or workman-ship or from faulty operating or installation instructions

Instructions. In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com. Replaced parts shall become property of Georg Fischer. For Products which are manufactured to specifications, drawings or patterns supplied by the

- 15.2
- Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship 15.3 The Purchaser shall be entitled to cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed. 15.4. For Products or essential components manufactured by a third party and supplied by Georg
- Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said This hard and the contract, every name and team improper storage. This warranty shall not apply to damage resulting from normal wear and team improper storage
- Inis warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
  No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve [12] months from receipt of the Products by the end user or at the latest within eighteen [18] months of the Products being desnatched by Georg Fischer
- despatched by Georg Fischer.

- 15.7 In case of Products for use in domestic installations or in utilities

   Georg Fischer will assume the costs of dismantling the defective Product and restoring the
   damaged object as well as, in case of negligence, all other direct damages caused by the

  defective Product (damage to property and injury to or death of persons) up to CHF 1000 000 per
  - the statute of limitations for warranty or damage claims contrary to Section 15.6 will be 5 years from the date of installation

# 16 Limitation of Liability

Limitation of Liability All cases of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective on what ground they are based, are exhaustively covered by these general conditions of supply. In particular, any claims not expressly mentioned for dam-ages, reduction of price, termination of or withdrawal from the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on the part of Georg Fischer and in case of strict liability under applicable product liability statutes, but does apply to unlawful intent or gross negligence of persons employed or appointed by Georg Fischer to perform any of its obligations

#### Severability 17

Should any term or clause of these General Conditions in whole or in part be found to be unenforcable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

## Place of Performance and Jurisdiction

- Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland. Georg Fischer however reserves the right to file actions in any court having jurisdiction over
- controversies arising out of or in connection with the present contract 18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

# GF Piping Systems $\rightarrow$ worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries.

# www.piping.georgfischer.com



The technical data are not binding. They constitute neither expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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