GF Piping Systems

Global Product Range

Variable Area Flow Meters

Type 335, Short Version, Special Version

Reliable, accurate and economical

Variable area flow meters from GF Piping Systems are radially installed dismountable meters for flow measuring in industrial piping applications. The measurement ranges, which are attuned to our customers' needs, and the range of materials available for the tubes and connection ends, mean that the flow meters can be used for a wide range of applications and a great variety of media.

Main advantages

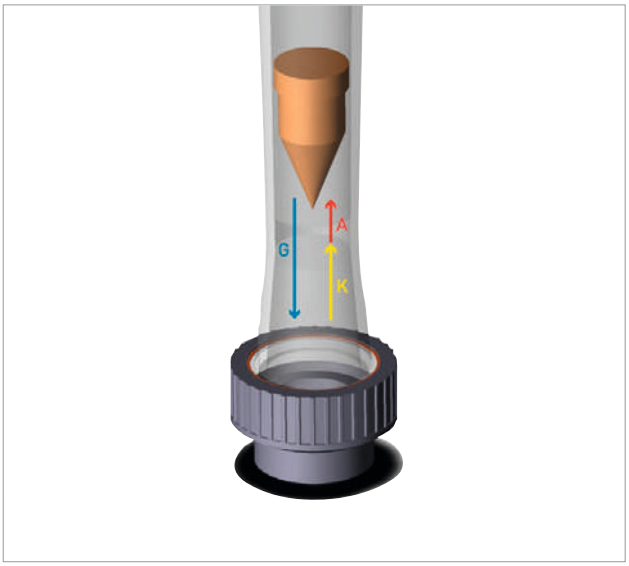
- The flowmeters require no auxiliary power
- Cost effective to measure the flow rate
- Break-proof and corrosion-resistant
- Accessories like sensor 4-20 mA and limit contacts
- Guiding rod from DN50 for stabilisation of float within volume flow
- Low pressure loss
- Can be used for liquids and gases
- Volume- and % scale as standard

Measuring principle

Three main forces act on the float

- The weight G
- The buoyancy A
- The flow force K

G = A + K



Segments

- Water Treatment
- Chemical Process Industry
- Microelectronics
- Food & Beverage
- Ship Building
- Building technology
- And many more

Know your flow

All the flow meters are equipped with a double scale: a percentage scale as well as a scale for the flow volume in l/h for water (H_2O). Special scales are on offer for m^3/h, GPM, in addition to special graduations for HCL, NaOH, air and can be affixed on taper tubes without scales subsequently. Measuring accuracy is based on VDI/VDE 3513, Part 2 - 2008 with an error limit of G = 5%, and a linearity limit of q_G = 50%.

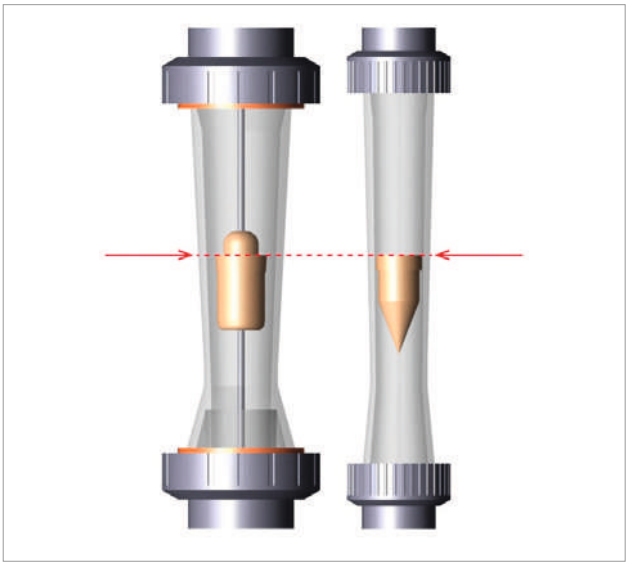
Product features

1. **Install and remove radially with threaded joint**
2. **Wide dovetail guide for easy fastening of limit switches**
3. **Flow immediately visible with setpoint indicators**
4. **One limit switch each for min. / max. flow (optional)**
5. **Imprinted double scale for water in percent (%) and flow volume (l/h)**
6. **Transparent taper tube in a variety of materials**
7. **Orange-colored PVDF float makes it easy to read the flow**
8. **Fast connection with standardized cement socket**

The float measuring principle

Accurate flow measurement of liquids and gases.

If a medium flows upwards at a sufficient rate of flow through the vertically mounted taper tube, the float is raised to the point at which a state of equilibrium sets in between the lifting force of the medium and the weight of the float. Since the mean rate of flow is proportional to the quantity flowing through per unit of time, this state of equilibrium corresponds to the measurement of the instantaneous flow rate.



Accurate reading

The top edge of the float indicates the flow volume. If special scales are applied subsequently, it must be ascertained that the scale marking ▶◀ is affixed congruently with the one on the taper tube.

Installation lenghts and materials

The variable area flow meters are now available in the installation lengths 335 mm, 200 mm, 185 mm and 165 mm (on request 350mm). The taper tubes are available in Polyamid, Polysulfon 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, PE or ABS on request. The O-rings are made of EPDM or FPM. The nominal pressure is 10 bar at 20°C. (The maximum permitted pressure for gases is 0.5 bar).

Before installing

1. The pincer-like transport lock must be removed. To do this, the upper union nut is unscrewed and the upper insert including seals is removed. Double-check the taper tube and if available the guiding rod on damages caused due to shipping.
2. Then the VAFM must be reassembled.
3. The piping system into which the VAFM is installed must be in a vertical position to ensure its functionality.
4. An inlet and outlet section must be provided for (inlet ca. 10 x DN, outlet ca. 5 x DN).

Accessories

Due to the integrated dovetail shaft it is possible to mount further accessories like 4-20 mA flow sensor GK15 or limit contacts GK10/11.

The most important data

The VDE/VDI 3513 Part 2 guideline describes the procedure for converting the scales of variable area flow meters. It takes into account all material and flow parameters including pressure, temperature, density and viscosity. GF Piping Systems offer you tables to accommodate changed operating conditions. You can find the tables in the GF Piping Systems Planning Fundamentals.

Accuracy of measurement VDI/VDE 3513, error limit G = 5%, linearity limit qG = 50%, related to the measured value

Flow rate in %	10	20	30	40	50	60	70	80	90	100
Total measurement error % of measured value	13.0	8.0	6.3	5.5	5.0	5.0	5.0	5.0	5.0	5.0
Total measurement error % of full scale value	1.3	1.6	1.9	2.2	2.5	3.0	3.5	4.0	4.5	5.0

Temperature range

Taper tube	Union	max. temperature at 1 bar
PVC-U	PVC-U	0 – 60°C
PA	PVC-U	0 – 60°C
PSU	PVC-U	0 – 60°C
PSU	PVDF	0 – 90°C
PVDF	PVDF	0 – 100°C

Pressure loss for type 335

Measuring range [l/h]	50 - 500	100 - 1000	150 - 1500	250 - 2500	200 - 2000	300 - 3000
Pressure loss [mbar]	22.84	22.84	22.84	22.84	24.99	24.99
Measuring range [l/h]	**600 - 6000**	**1000 - 10000**	**1500 - 15000**	**2000 - 20000**	**3000 - 30000**	**8000 - 60000**
Pressure loss [mbar]	24.99	24.99	28.23	45.67	45.67	47.24

Chemical resistance list

			Concentration	PA	PSU	PVC-U
Acids	Phosphoric acid	H_3PO_4	diluted / concentrated	o / -	+ / +	+ / +
	Nitric acid	HNO_3	diluted / concentrated	- / -	o / -	o / -
	Sulfuric acid	H_2SO_4	diluted / concentrated	- / -	o / -	+ / o
	Hydrofluoric acid	HF	diluted / concentrated	- / -	o / -	+ / -
	Hydrochloric acid	HCl	diluted / concentrated	- / -	o / o	o / -
	Formic acid	HCOOH	diluted / concentrated	- / -	o / o	+ / -
	Acetic acid	CH_3COOH	diluted / concentrated	- / -	o / o	+ / -
Bases	Ammonium hydroxide	NH_4OH	all	+	+	+
	Caustic potash	KOH	diluted / concentrated	+ / o	+ / +	+ / +
	Caustic soda	NaOH	diluted / concentrated	+ / o	+ / +	+ / +
Inorganics	Ferric chloride	$FeCl_3$	all	+	+	+
	Sodium hypochlorite	NaOCl	diluted / concentrated	o / -	+ / -	o / -
	Sodium bisulfite	$NaHSO_3$	all	+	+	+
	Hydrogen peroxide	H_2O_2	diluted / concentrated	- / -	+ / -	o / -
	Brine (non-oxidative)		all	+	+	+
Organics	Glycol		diluted / concentrated	- / -	+ / +	+ / o
	Ethanol / Methanol	C_2H_5OH / CH_3OH	diluted / concentrated	- / -	+ / +	+ / o
	Aliphatic hydrocarbons		all	+	+	o
	Acetone	C_3H_6O	diluted / concentrated	- / -	o / -	o / -
	Formaldehyde	H_2CO	</= 40 %	-	+	+

+: recommended o: with limitations -: not recommended

The ratings refer to the chemical resistance of the materials and consider known cases of developing haziness with time. Due to limited experience haziness may occur in additional individuial cases. No refence cases exist for media causing haziness with PA and PSU. Haziness is not regarded as chemical incompatibility.

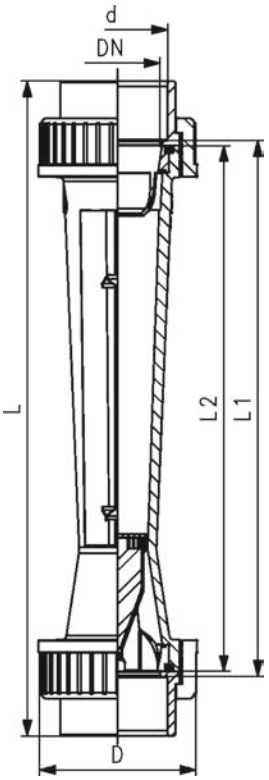
Please note: The above list is only intended as a guideline and does not replace an in-depth review of material suitability for the particular application. The information is based on our experience and is state of the art. This data consists only of general indicators. In practice, however, other factors, for example, concentration, pressure, and jointing technology, must also be taken into consideration. The technical data is not binding and does not constitute expressly warranted characteristics of the goods. If you need further information, contact gss@georgfischer.com or visit our website and use our online tool ChemRes PLUS; it provides you with the most important basic information.

https://www.gfps.com/chemical-resistence

Variable Area Flow Meters

Global Product Range

Variable Area Flow Meter Type 335



Variable area flow meter type 335
Float in PVDF without magnet
With solvent cement sockets PVC-U metric

Model:

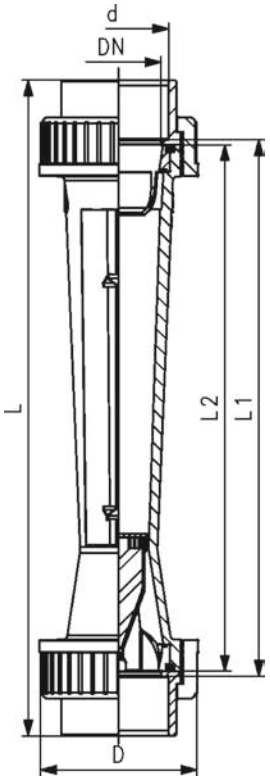
- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65

Option:

- 4-20 mA sensor
- Limit contacts
- Special scales for different media
- Union nuts and connecting parts in other materials on request

Scale range (l/h)	d (mm)	DN (mm)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)
50 - 500	32	25	**199 335 000**	0.564	**199 335 020**	0.522	**199 335 040**	0.464
100 - 1000	32	25	**199 335 001**	0.473	**199 335 021**	0.423	**199 335 041**	0.528
150 - 1500	40	32	**199 335 002**	0.626	**199 335 022**	0.567	**199 335 042**	0.698
250 - 2500	40	32	**199 335 003**	0.706	**199 335 023**	0.620	**199 335 043**	0.561
200 - 2000	50	40	**199 335 004**	0.972	**199 335 024**	0.885	**199 335 044**	1.057
300 - 3000	50	40	**199 335 005**	0.952	**199 335 025**	0.874	**199 335 045**	1.038
600 - 6000	50	40	**199 335 006**	1.019	**199 335 026**	0.840	**199 335 046**	0.991
600 - 6000	63	50	**199 335 007**	1.357	**199 335 027**	1.381	**199 335 047**	1.307
1000 - 10000	63	50	**199 335 008**	1.299	**199 335 028**	1.196	**199 335 048**	1.252
1500 - 15000	63	50	**199 335 009**	1.301	**199 335 029**	1.355	**199 335 049**	1.302
2000 - 20000	75	65	**199 335 010**	2.513	**199 335 030**	2.536	**199 335 050**	2.639
3000 - 30000	75	65	**199 335 011**	2.442	**199 335 031**	2.286	**199 335 051**	2.572
8000 - 60000	75	65	**199 335 012**	2.293	**199 335 032**	2.333	**199 335 052**	2.432

Scale range (l/h)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
50 - 500	58	385	341	335	1 ½
100 - 1000	58	385	341	335	1 ½
150 - 1500	72	393	341	335	2
250 - 2500	72	393	341	335	2
200 - 2000	83	403	341	335	2 ¼
300 - 3000	83	403	341	335	2 ¼
600 - 6000	83	403	341	335	2 ¼
600 - 6000	101	417	341	335	2 ¾
1000 - 10000	101	417	341	335	2 ¾
1500 - 15000	101	417	341	335	2 ¾
2000 - 20000	135	429	341	335	3 ½
3000 - 30000	135	429	341	335	3 ½
8000 - 60000	135	429	341	335	3 ½



Variable area flow meter type 335
Float in PVDF with magnet
With solvent cement sockets PVC-U metric

Model:

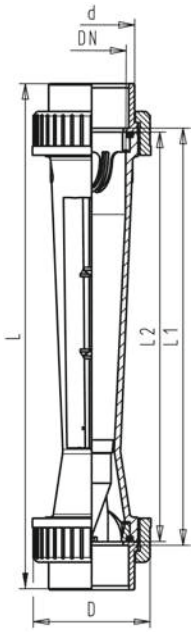
- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65

Option:

- 4-20 mA sensor
- Limit contacts
- Special scales for different media
- Union nuts and connecting parts in other materials on request

Scale range (l/h)	d (mm)	DN (mm)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)
50 - 500	32	25	**199 335 100**	0.469	**199 335 120**	0.434	**199 335 140**	0.466
100 - 1000	32	25	**199 335 101**	0.547	**199 335 121**	0.423	**199 335 141**	0.452
150 - 1500	40	32	**199 335 102**	0.630	**199 335 122**	0.568	**199 335 142**	0.604
250 - 2500	40	32	**199 335 103**	0.714	**199 335 123**	0.547	**199 335 143**	0.585
200 - 2000	50	40	**199 335 104**	0.973	**199 335 124**	0.887	**199 335 144**	0.944
300 - 3000	50	40	**199 335 105**	0.952	**199 335 125**	0.874	**199 335 145**	1.035
600 - 6000	50	40	**199 335 106**	1.024	**199 335 126**	0.836	**199 335 146**	0.881
600 - 6000	63	50	**199 335 107**	1.342	**199 335 127**	1.240	**199 335 147**	1.360
1000 - 10000	63	50	**199 335 108**	1.303	**199 335 128**	1.190	**199 335 148**	1.248
1500 - 15000	63	50	**199 335 109**	1.297	**199 335 129**	1.351	**199 335 149**	1.409
2000 - 20000	75	65	**199 335 110**	2.508	**199 335 130**	2.378	**199 335 150**	2.441
3000 - 30000	75	65	**199 335 111**	2.477	**199 335 131**	2.472	**199 335 151**	2.377
8000 - 60000	75	65	**199 335 112**	2.294	**199 335 132**	2.150	**199 335 152**	2.150

Scale range (l/h)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
50 - 500	58	385	341	335	1 ½
100 - 1000	58	385	341	335	1 ½
150 - 1500	72	393	341	335	2
250 - 2500	72	393	341	335	2
200 - 2000	83	403	341	335	2 ¼
300 - 3000	83	403	341	335	2 ¼
600 - 6000	83	403	341	335	2 ¼
600 - 6000	101	417	341	335	2 ¾
1000 - 10000	101	417	341	335	2 ¾
1500 - 15000	101	417	341	335	2 ¾
2000 - 20000	135	429	341	335	3 ½
3000 - 30000	135	429	341	335	3 ½
8000 - 60000	135	429	341	335	3 ½



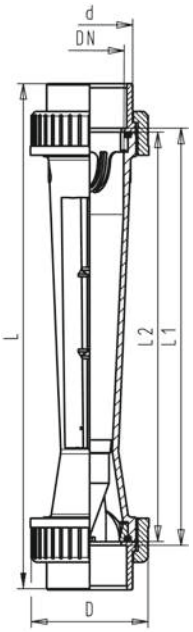
Variable area flow meters
Float in PVDF without magnet
With solvent cement sockets PVC-U BS Inch

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (inch)	DN (mm)	Taper tube in PVC-U transp. O-rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)
50 - 500	1	25	**199 335 400**	**199 335 420**	**199 335 440**	0.440
100 - 1000	1	25	**199 335 401**	**199 335 421**	**199 335 441**	0.440
150 - 1500	1 ¼	32	**199 335 402**	**199 335 422**	**199 335 442**	0.620
250 - 2500	1 ¼	32	**199 335 403**	**199 335 423**	**199 335 443**	0.620
200 - 2000	1 ½	40	**199 335 404**	**199 335 424**	**199 335 444**	0.900
300 - 3000	1 ½	40	**199 335 405**	**199 335 425**	**199 335 445**	0.900
600 - 6000	1 ½	40	**199 335 406**	**199 335 426**	**199 335 446**	0.900
600 - 6000	2	50	**199 335 407**	**199 335 427**	**199 335 447**	1.225
1000 - 10000	2	50	**199 335 408**	**199 335 428**	**199 335 448**	1.225
1500 - 15000	2	50	**199 335 409**	**199 335 429**	**199 335 449**	1.225
2000 - 20000	2 ½	65	**199 335 010**	**199 335 030**	**199 335 050**	2.639
3000 - 30000	2 ½	65	**199 335 011**	**199 335 031**	**199 335 051**	2.572
8000 - 60000	2 ½	65	**199 335 012**	**199 335 032**	**199 335 052**	2.432

Scale range (l/h)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	58	385	341	335
100 - 1000	58	385	341	335
150 - 1500	72	393	341	335
250 - 2500	72	393	341	335
200 - 2000	83	403	341	335
300 - 3000	83	403	341	335
600 - 6000	83	403	341	335
600 - 6000	101	417	341	335
1000 - 10000	101	417	341	335
1500 - 15000	101	417	341	335
2000 - 20000	135	429	341	335
3000 - 30000	135	429	341	335
8000 - 60000	135	429	341	335



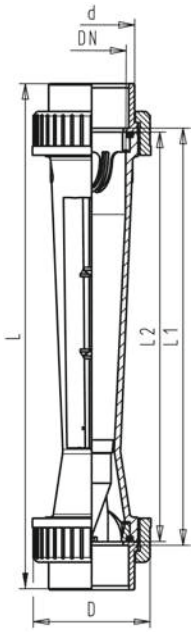
Variable area flow meters
Float in PVDF with magnet
With solvent cement sockets PVC-U BS Inch

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (inch)	DN (mm)	Taper tube in PVC-U transp. O-rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)
50 - 500	1	25	**199 335 500**	**199 335 520**	**199 335 540**	0.440
100 - 1000	1	25	**199 335 501**	**199 335 521**	**199 335 541**	0.440
150 - 1500	1 ¼	32	**199 335 502**	**199 335 522**	**199 335 542**	0.620
250 - 2500	1 ¼	32	**199 335 503**	**199 335 523**	**199 335 543**	0.620
200 - 2000	1 ½	40	**199 335 504**	**199 335 524**	**199 335 544**	0.900
300 - 3000	1 ½	40	**199 335 505**	**199 335 525**	**199 335 545**	0.900
600 - 6000	1 ½	40	**199 335 506**	**199 335 526**	**199 335 546**	0.900
600 - 6000	2	50	**199 335 507**	**199 335 527**	**199 335 547**	1.225
1000 - 10000	2	50	**199 335 508**	**199 335 528**	**199 335 548**	1.225
1500 - 15000	2	50	**199 335 509**	**199 335 529**	**199 335 549**	1.225
2000 - 20000	2 ½	65	**199 335 110**	**199 335 130**	**199 335 150**	2.441
3000 - 30000	2 ½	65	**199 335 511**	**199 335 131**	**199 335 151**	2.377
8000 - 60000	2 ½	65	**199 335 112**	**199 335 132**	**199 335 152**	2.150

D (mm)	L (mm)	L1 (mm)	L2 (mm)
58	385	341	335
58	385	341	335
72	393	341	335
72	393	341	335
83	403	341	335
83	403	341	335
83	403	341	335
101	417	341	335
101	417	341	335
101	417	341	335
135	429	341	335
135	429	341	335
135	429	341	335

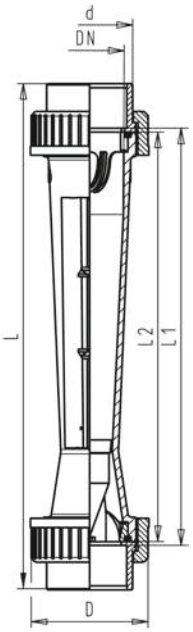


Variable area flow meters
Float in PVDF without magnet
With solvent cement sockets ABS metric

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (mm)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	32	25	**199 335 170**	0.544	**199 335 176**	58	385	341	335
100 - 1000	32	25	**199 335 171**	0.544	**199 335 177**	58	385	341	335
300 - 3000	50	40	**199 335 172**	0.544	**199 335 178**	83	403	341	335
600 - 6000	50	40	**199 335 173**	0.900	**199 335 179**	83	403	341	335
1000 - 10000	63	50	**199 335 174**	1.370	**199 335 180**	101	417	341	335
1500 - 15000	63	50	**199 335 175**	1.370	**199 335 181**	101	417	341	335

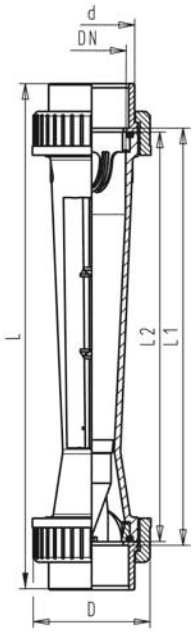


Variable area flow meters
Float in PVDF with magnet
With solvent cement sockets ABS metric

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (mm)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	32	25	**199 335 182**	0.460	**199 335 188**	58	385	341	335
100 - 1000	32	25	**199 335 183**	0.460	**199 335 189**	58	385	341	335
300 - 3000	50	40	**199 335 184**	0.544	**199 335 190**	83	403	341	335
600 - 6000	50	40	**199 335 185**	0.900	**199 335 191**	83	403	341	335
1000 - 10000	63	50	**199 335 186**	1.370	**199 335 192**	101	417	341	335
1500 - 15000	63	50	**199 335 187**	1.758	**199 335 193**	101	417	341	335

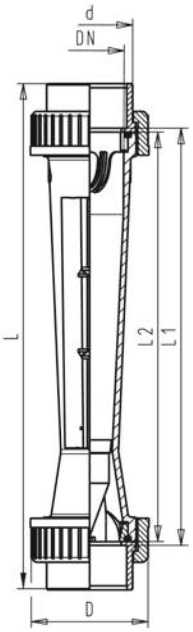


Variable area flow meters
Float in PVDF without magnet
With solvent cement sockets ABS BS Inch

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	L1 (mm)	D (mm)	L (mm)	L2 (mm)
50 - 500	1	25	**199 335 300**	0.450	**199 335 301**	341	58	385	335
100 - 1000	1	25	**199 335 302**	0.450	**199 335 303**	341	58	385	335
300 - 3000	1 ½	40	**199 335 304**	0.900	**199 335 305**	341	83	403	335
600 - 6000	1 ½	40	**199 335 306**	0.900	**199 335 307**	341	83	403	335
1000 - 10000	2	50	**199 335 308**	1.370	**199 335 309**	341	101	417	335
1500 - 15000	2	50	**199 335 310**	1.370	**199 335 311**	341	101	417	335

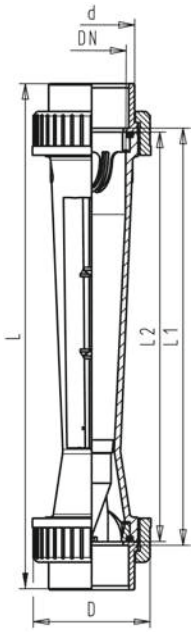


Variable area flow meters
Float in PVDF with magnet
With solvent cement sockets ABS BS Inch

Model:

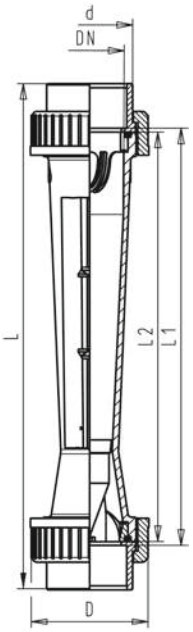
- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	1	25	**199 335 312**	**199 335 313**	0.480	58	385	341	335
100 - 1000	1	25	**199 335 314**	**199 335 315**	0.480	58	385	341	335
300 - 3000	1 ½	40	**199 335 316**	**199 335 317**	0.950	83	403	341	335
600 - 6000	1 ½	40	**199 335 318**	**199 335 319**	0.950	83	403	341	335
1000 - 10000	2	50	**199 335 320**	**199 335 321**	1.500	101	417	341	335
1500 - 15000	2	50	**199 335 322**	**199 335 323**	1.500	101	417	341	335



Variable area flow meters
Float in PVDF without magnet
With fusion sockets PP-H metric

Scale range (l/min)	d (mm)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	32	25	**198 802 838**	**198 802 839**	0.450	58	385	341	335
100 - 1000	32	25	**198 802 840**	**198 802 841**	0.450	58	385	341	335
300 - 3000	50	40	**198 802 842**	**198 802 843**	0.900	83	403	341	335
600 - 6000	50	40	**198 802 844**	**198 802 845**	5.000	83	403	341	335
1000 - 10000	63	50	**198 802 846**	**198 802 847**	1.450	101	417	341	335
1500 - 15000	63	50	**198 802 848**	**198 802 849**	1.450	101	417	341	335



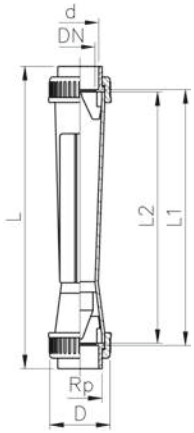
Variable area flow meters
Float in PVDF with magnet
With fusionsockets PP-H metric

Model:

- Suitable limit switches see accessories for variable area flow meters

Scale range (l/min)	d (mm)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	L (mm)
50 - 500	32	25	**198 802 850**	**198 802 851**	0.450	58	341	335	385
100 - 1000	32	25	**198 802 852**	**198 802 853**	0.450	58	341	335	385
300 - 3000	50	40	**198 802 854**	**198 802 855**	0.900	83	341	335	403
600 - 6000	50	40	**198 802 856**	**198 802 857**	0.900	83	341	335	403
1000 - 10000	63	50	**198 802 858**	**198 802 859**	1.450	101	341	335	417
1500 - 15000	63	50	**198 802 860**	**198 802 861**	1.450	101	341	335	417

Variable Area Flow Meter Short Version



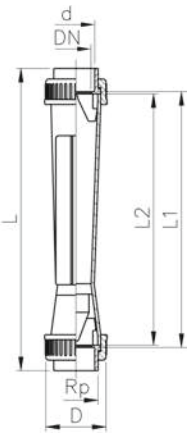
Short version
Float in PVDF without magnet
With solvent cement sockets PVC-U metric

Model:

- Union nuts and valve ends in other materials on request

Scale range (l/h)	Type	d (mm)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)
2.5 - 25.0	SK 50	16	10	**198 801 880**	0.083	**198 803 310**	0.081
5.0 - 50.0	SK 51	16	10	**198 801 881**	0.078	**198 803 311**	0.079
10.0 - 100.0	SK 52	16	10	**198 801 882**	0.079	**198 803 312**	0.079
8.0 - 80.0	SK 60	20	15	**198 801 883**	0.125	**198 803 313**	0.127
15.0 - 150.0	SK 61	20	15	**198 801 884**	0.122	**198 803 314**	0.130
20.0 - 200.0	SK 62	20	15	**198 801 885**	0.119	**198 803 315**	0.125
15.0 - 150.0	SK 70	32	25	**198 801 886**	0.247	**198 803 316**	0.256
30.0 - 300.0	SK 71	32	25	**198 801 887**	0.244	**198 803 317**	0.254
50.0 - 500.0	SK 72	32	25	**198 801 888**	0.285	**198 803 318**	0.244
100.0 - 1000.0	SK 73	32	25	**198 801 889**	0.234	**198 803 319**	0.242

Scale range (l/h)	Type	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
2.5 - 25.0	SK 50	35	199	171	165	¾
5.0 - 50.0	SK 51	35	199	171	165	¾
10.0 - 100.0	SK 52	35	199	171	165	¾
8.0 - 80.0	SK 60	43	223	191	185	1
15.0 - 150.0	SK 61	43	223	191	185	1
20.0 - 200.0	SK 62	43	223	191	185	1
15.0 - 150.0	SK 70	60	250	206	200	1 ½
30.0 - 300.0	SK 71	60	250	206	200	1 ½
50.0 - 500.0	SK 72	60	250	206	200	1 ½
100.0 - 1000.0	SK 73	60	250	206	200	1 ½



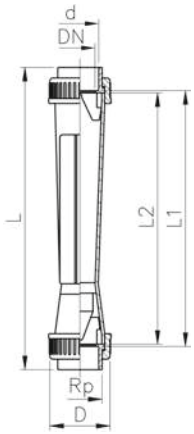
Short version
Float in PVDF with magnet
With solvent cement sockets PVC-U metric

Model:

- Suitable limit switches see accessories for variable area flow meters
- Union nuts and valve ends in other materials on request

Scale range (l/h)	Type	d (mm)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Taper tube in PVC-U transp. O-rings in EPDM Code	Weight (kg)
2.5 - 25.0	SK 500	16	10	**198 801 890**	0.079	**198 803 320**	0.081
5.0 - 50.0	SK 510	16	10	**198 801 891**	0.102	**198 803 321**	0.080
10.0 - 100.0	SK 520	16	10	**198 801 892**	0.075	**198 803 322**	0.079
8.0 - 80.0	SK 600	20	15	**198 801 893**	0.123	**198 803 323**	0.129
15.0 - 150.0	SK 610	20	15	**198 801 894**	0.121	**198 803 324**	0.160
20.0 - 200.0	SK 620	20	15	**198 801 895**	0.119	**198 803 325**	0.125
15.0 - 150.0	SK 700	32	25	**198 801 896**	0.248	**198 803 326**	0.301
30.0 - 300.0	SK 710	32	25	**198 801 897**	0.289	**198 803 327**	0.255
50.0 - 500.0	SK 720	32	25	**198 801 898**	0.241	**198 803 328**	0.248
100.0 - 1000.0	SK 730	32	25	**198 801 899**	0.280	**198 803 329**	0.242

Scale range (l/h)	Type	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
2.5 - 25.0	SK 500	35	199	171	165	¾
5.0 - 50.0	SK 510	35	199	171	165	¾
10.0 - 100.0	SK 520	35	199	171	165	¾
8.0 - 80.0	SK 600	43	223	191	185	1
15.0 - 150.0	SK 610	43	223	191	185	1
20.0 - 200.0	SK 620	43	223	191	185	1
15.0 - 150.0	SK 700	60	250	206	200	1 ½
30.0 - 300.0	SK 710	60	250	206	200	1 ½
50.0 - 500.0	SK 720	60	250	206	200	1 ½
100.0 - 1000.0	SK 730	60	250	206	200	1 ½

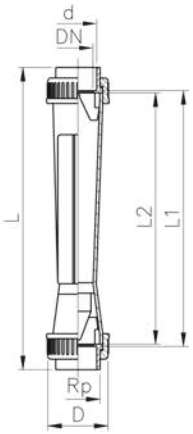


Short Version
Float in PVDF without magnet
With solvent cement sockets PVC-U BS Inch

Model:

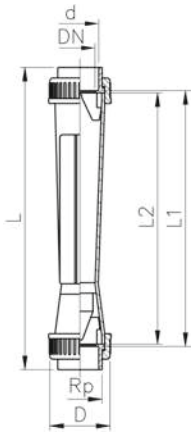
- Union nuts and valve ends in other materials on request

Type	Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Messrohr in PVC-U transp. O-Ringe aus EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK50	2.5 - 25	⅜	10	**198 807 000**	0.190	**20014A290**	35	199	171	165
SK51	5 - 50	⅜	10	**198 807 001**	0.190	**20014A291**	35	199	171	165
SK52	10 - 100	⅜	10	**198 807 002**	0.190	**20014A292**	35	199	171	165
SK60	8 - 80	½	15	**198 807 003**	0.260	**20014A293**	43	223	191	185
SK61	15 - 150	½	15	**198 807 004**	0.260	**20014A294**	43	223	191	185
SK62	20 - 200	½	15	**198 807 005**	0.260	**20014A295**	43	223	191	185
SK70	15 - 150	1	25	**198 807 006**	0.470	**20014A296**	60	250	206	200
SK71	30 - 300	1	25	**198 807 007**	0.470	**20014A297**	60	250	206	200
SK72	50 - 500	1	25	**198 807 008**	0.470	**20014A298**	60	250	206	200
SK73	100 - 1000	1	25	**198 807 009**	0.470	**20014A299**	60	250	206	200



Short Version
Float in PVDF with magnet
With solvent cement sockets PVC-U BS Inch

Type	Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Taper tube in PVC-U transp. Orings in EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK500	2.5 - 25	⅜	10	**198 807 010**	0.180	**20014A300**	35	199	171	165
SK510	5 - 50	⅜	10	**198 807 011**	0.180	**20014A301**	35	199	171	165
SK520	10 - 100	⅜	10	**198 807 012**	0.180	**20014A302**	35	199	171	165
SK600	8 - 80	½	15	**198 807 013**	0.180	**20014A303**	43	223	191	185
SK610	15 - 150	½	15	**198 807 014**	0.250	**20014A304**	43	223	191	185
SK620	20 - 200	½	15	**198 807 015**	0.170	**20014A305**	43	223	191	185
SK700	15 - 150	1	25	**198 807 016**	0.470	**20014A306**	60	250	206	200
SK710	30 - 300	1	25	**198 807 017**	0.380	**20014A307**	60	250	206	200
SK720	50 - 500	1	25	**198 807 018**	0.370	**20014A308**	60	250	206	200
SK730	100 - 1000	1	25	**198 807 019**	0.370	**20014A309**	60	250	206	200

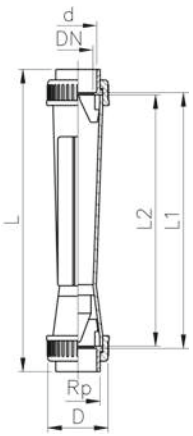


Short Version
Float in PVDF without magnet
With solvent cement sockets ABS metric

Model:

- Union nuts and valve ends in other materials on request

Type	Scale range (l/h)	d (mm)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK50	2.5 - 25	16	10	**198 807 144**	0.180	35	199	171	165
SK51	5 - 50	16	10	**198 807 145**	5.000	35	199	171	165
SK52	10 - 100	16	10	**198 807 146**	0.180	35	199	171	165
SK60	8 - 80	20	15	**198 807 147**	0.250	43	223	191	185
SK61	15 - 150	20	15	**198 807 148**	0.250	43	223	191	185
SK62	20 - 200	20	15	**198 807 149**	0.250	43	223	191	185
SK70	15 - 150	32	25	**198 807 150**	5.000	60	250	206	200
SK71	30 - 300	32	25	**198 807 151**	0.440	60	250	206	200
SK72	50 - 500	32	25	**198 807 152**	0.440	60	250	206	200
SK73	100 - 1000	32	25	**198 807 153**	5.000	60	250	206	200

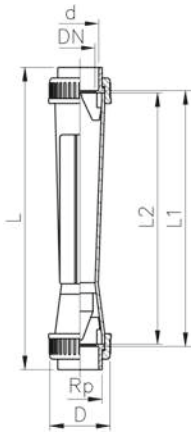


Short Version
Float in PVDF with magnet
With solvent cement sockets ABS metric

Model:

- Suitable limit switches see accessories for variable area flow meters
- Union nuts and valve ends in other materials on request

Type	Scale range (l/h)	d (mm)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK500	2.5 - 25	16	10	**198 807 154**	0.180	35	199	171	165
SK510	5 - 50	16	10	**198 807 155**	0.180	35	199	171	165
SK520	10 - 100	16	10	**198 807 156**	0.180	35	199	171	165
SK600	8 - 80	20	15	**198 807 157**	0.260	43	223	191	185
SK610	15 - 150	20	15	**198 807 158**	0.260	43	223	191	185
SK620	20 - 200	20	15	**198 807 159**	0.260	43	223	191	185
SK700	15 - 150	32	25	**198 807 160**	0.444	60	250	206	200
SK710	30 - 300	32	25	**198 807 161**	0.444	60	250	206	200
SK720	50 - 500	32	25	**198 807 162**	0.444	60	250	206	200
SK730	100 - 1000	32	25	**198 807 163**	0.440	60	250	206	200

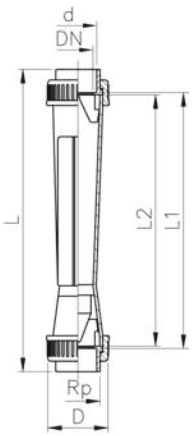


Short Version
Float in PVDF without magnet
With solvent cement sockets ABS BS Inch

Model:

- Union nuts and valve ends in other materials on request

Type	Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK50	2.5 - 25	⅜	10	**198 807 040**	0.180	35	199	171	165
SK51	5 - 50	⅜	10	**198 807 041**	0.180	35	199	171	165
SK52	10 - 100	⅜	10	**198 807 042**	0.180	35	199	171	165
SK60	8 - 80	½	15	**198 807 043**	0.250	43	223	191	185
SK61	15 - 150	½	15	**198 807 044**	0.250	43	223	191	185
SK62	20 - 200	½	15	**198 807 045**	0.120	43	223	191	185
SK70	15 - 150	1	25	**198 807 046**	0.440	60	250	206	200
SK71	30 - 300	1	25	**198 807 047**	5.000	60	250	206	200
SK72	50 - 500	1	25	**198 807 048**	0.280	60	250	206	200
SK73	100 - 1000	1	25	**198 807 049**	0.440	60	250	206	200



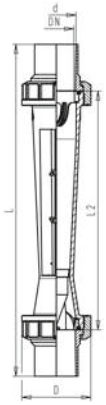
Short Version
Float in PVDF with magnet
With solvent cement sockets ABS BS Inch

Model:

- Suitable limit switches see accessories for variable area flow meters
- Union nuts and valve ends in other materials on request

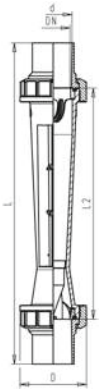
Type	Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK500	2.5 - 25	⅜	10	**198 807 050**	0.180	35	199	171	165
SK510	5 - 50	⅜	10	**198 807 051**	0.180	35	199	171	165
SK520	10 - 100	⅜	10	**198 807 052**	0.180	35	199	171	165
SK600	8 - 80	½	15	**198 807 053**	0.170	43	223	191	185
SK610	15 - 150	½	15	**198 807 054**	0.250	43	223	191	185
SK620	20 - 200	½	15	**198 807 055**	0.170	43	223	191	185
SK700	15 - 150	1	25	**198 807 056**	0.440	60	250	206	200
SK710	30 - 300	1	25	**198 807 057**	0.350	60	250	206	200
SK720	50 - 500	1	25	**198 807 058**	0.340	60	250	206	200
SK730	100 - 1000	1	25	**198 807 059**	0.340	60	250	206	200

Variable Area Flow Meter Special Version



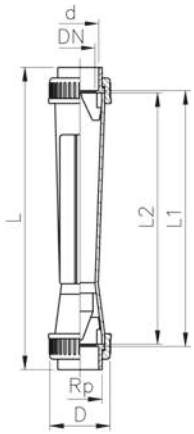
Special version Type 335 PVDF-HP
Float in PVDF (white) without magnet
With fusion spigots BCF/IR

d (mm)	DN (mm)	Scale range (l/h)	Scale range (gal/min)	Taper tube in Polysulfone O-rings in FKM (white) Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	G (inch)
32	25	100 - 1000	0.4 - 4.4	**198 335 160**	0.401	60	453	335	1 ½
50	40	300 - 3000	1.3 - 13.2	**198 335 161**	1.030	83	466	335	2 ¼
50	40	600 - 6000	2.6 - 26.4	**198 335 162**	0.978	83	466	335	2 ¼
63	50	1000 - 8000	4.4 - 35.2	**198 335 163**	1.500	103	472	335	2 ¾
63	50	1500 - 15000	6.6 - 66.0	**198 335 164**	1.500	103	472	335	2 ¾
75	65	2000 - 20000	8.8 - 88.0	**198 335 165**	2.500	122	495	335	3 ½
75	65	3000 - 29000	13.2 - 127.7	**198 335 166**	2.500	122	495	335	3 ½



Special version PVDF-HP
Float in PTFE without magnet
With fusion spigots BCF/IR

Type	d (mm)	DN (mm)	Scale range (l/h)	Scale range (gal/min)	Taper tube in Polysulfone O-rings in FKM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	G (inch)
SK 70	32	25	68 - 204	0.3 - 0.9	**198 807 209**	0.383	60	318	200	1 ½
SK 71	32	25	90 - 295	0.4 - 1.3	**198 807 210**	0.387	60	318	200	1 ½
SK 73	32	25	136 - 795	0.6 - 3.5	**198 807 202**	0.401	60	318	200	1 ½

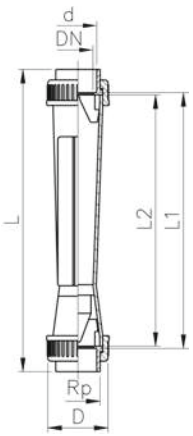


Short Version with special scale HCl 30 - 33% l/h
Float in PVDF without magnet
With solvent cement sockets PVC-U metric

Model:

- Union nuts and valve ends in other materials on request

Type	DN (mm)	Scale range (l/h)	d (mm)	Taper tube in PVC-U transp. Orings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
	25	5 - 125	32	**700 276 563**	0.260	60	250	206	200
SK 71	25	30 - 260	32	**700 276 564**	0.255	60	250	206	200
SK 73	25	100 - 850	32	**700 276 565**	0.243	60	250	206	200



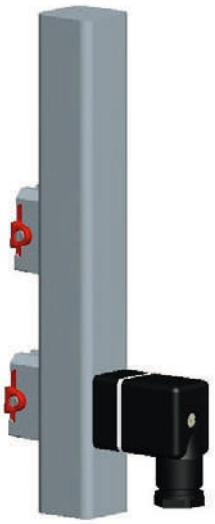
Short Version with special scale NaOH 30% l/h
Float in PVDF without magnet
With solvent cement sockets PVC-U metric

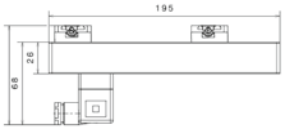
Model:

- Union nuts and valve ends in other materials on request

Type	Scale range (l/h)	d (mm)	DN (mm)	Taper tube in PVC-U transp. Orings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK 71	6 - 130	32	25	**700 276 566**	0.254	60	250	206	200
SK 72	10 - 250	32	25	**700 276 567**	0.251	60	250	206	200
SK 73	40 - 590	32	25	**700 276 568**	0.240	60	250	206	200

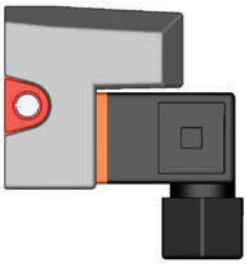
Accessories

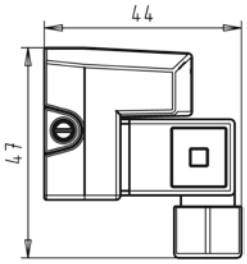




Accessories
4-20 mA sensor
For type 335 and type 350

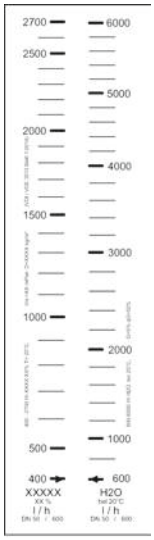
Type	d (mm)	DN (mm)	Corresponds to water scale (l/h)	Code	Weight (kg)
GK 15	32	25	50-500	**199 335 962**	0.150
GK 15	32	25	100-1000	**199 335 963**	0.150
GK 15	40	32	150-1500	**199 335 964**	0.150
GK 15	40	32	250-2500	**199 335 965**	0.150
GK 15	50	40	200-2000	**199 335 966**	0.150
GK 15	50	40	300-3000	**199 335 967**	0.150
GK 15	50	40	600-6000	**199 335 968**	0.150
GK 15	63	50	600-6000	**199 335 969**	0.150
GK 15	63	50	1000-10000	**199 335 991**	0.150
GK 15	63	50	1500-15000	**199 335 992**	0.120
GK 15	75	65	2000-20000	**199 335 993**	0.150
GK 15	75	65	3000-30000	**199 335 994**	0.150
GK 15	75	65	8000-60000	**199 335 995**	0.150





Accessories
Limit contacts GK10/GK11
For type 335/350 and short version

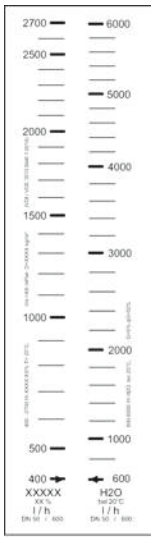
Type	Code	Weight (kg)
GK10 (min.)	**198 335 998**	0.035
GK11 (max.)	**198 335 999**	0.034



Example of special scale

Special scale for type 335/350
% for H2O

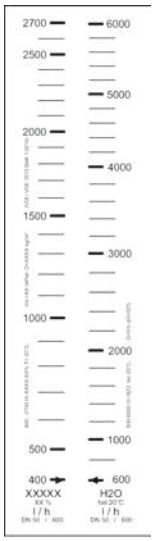
d (mm)	DN (mm)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	10-100 %	50-500	**199 335 084**	0.050
32	25	10-100 %	100-1000	**199 335 083**	0.003
40	32	10-100 %	150-1500	**199 335 069**	0.050
40	32	10-100 %	250-2500	**199 335 068**	0.050
50	40	10-100 %	200-2000	**199 335 054**	0.050
50	40	10-100 %	300-3000	**199 335 053**	0.002
50	40	10-100 %	600-6000	**199 335 039**	0.050
63	50	10-100 %	600-6000	**199 335 038**	0.002
63	50	10-100 %	1000-10000	**199 335 037**	0.002
63	50	10-100 %	1500-15000	**199 335 036**	0.050
75	65	10-100 %	2000-20000	**199 335 035**	0.050
75	65	10-100 %	3000-30000	**199 335 034**	0.050
75	65	13.3-100 %	8000-60000	**199 335 033**	0.050



Example of special scale

Special scale for type 335/350
m3/h

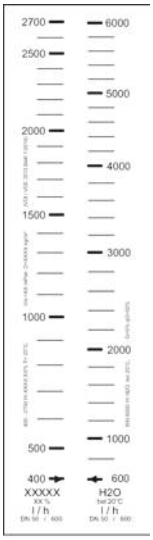
d (mm)	DN (mm)	Scale range (m^3/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	0.05 - 0.50	50 - 500	**199 335 655**	0.050
32	25	0.10 - 1.00	100 - 1000	**199 335 656**	0.050
40	32	0.15 - 1.50	150 - 1500	**199 335 657**	0.050
40	32	0.25 - 2.50	250 - 2500	**199 335 658**	0.050
50	40	0.20 - 2.00	200 - 2000	**199 335 659**	0.050
50	40	0.30 - 3.00	300 - 3000	**199 335 660**	0.050
50	40	0.60 - 6.00	600 - 6000	**199 335 661**	0.050
63	50	0.60 - 6.00	600 - 6000	**199 335 662**	0.050
63	50	1.00 - 10.00	1000 - 10000	**199 335 663**	0.050
63	50	1.50 - 15.00	1500 - 15000	**199 335 664**	0.050
75	65	2.00 - 20.00	2000 - 20000	**199 335 665**	0.050
75	65	3.00 - 30.00	3000 - 30000	**199 335 666**	0.008
75	65	8.00 - 60.00	8000 - 60000	**199 335 667**	0.050



Example of special scale

Special scale for type 335/350
Imp. GPM

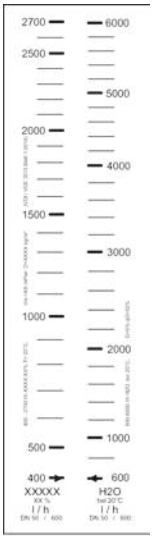
d (mm)	DN (mm)	Scale range (gal/min)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	0.183 - 1.830	50-500	**199 335 670**	0.050
32	25	0.366 - 3.660	100-1000	**199 335 671**	0.050
40	32	0.550 - 5.500	150-1500	**199 335 672**	0.050
40	32	0.916 - 9.160	250-2500	**199 335 673**	0.050
50	40	0.733 - 7.330	200-2000	**199 335 674**	0.050
50	40	1.090 - 10.900	300-3000	**199 335 675**	0.050
50	40	2.190 - 21.900	600-6000	**199 335 676**	0.050
63	50	2.200 - 22.000	600-6000	**199 335 677**	0.050
63	50	3.660 - 36.600	1000-10000	**199 335 678**	0.050
63	50	5.490 - 54.900	1500-15000	**199 335 679**	0.050
75	65	7.320 - 73.200	2000-20000	**199 335 680**	0.050
75	65	10.980 - 109.800	3000-30000	**199 335 681**	0.050
75	65	29.280 - 219.600	8000-60000	**199 335 682**	0.050



Example of special scale

Special scale for type 335/350
US GPM

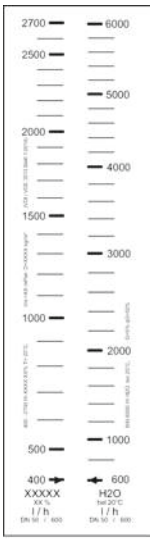
d (mm)	DN (mm)	Scale range (gal/min)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	0.22 - 2.20	50 - 500	**199 335 685**	0.050
32	25	0.44 - 4.40	100 - 1000	**199 335 686**	0.050
40	32	0.66 - 6.60	150 - 1500	**199 335 687**	0.002
40	32	1.10 - 11.00	250 - 2500	**199 335 688**	0.050
50	40	0.88 - 8.80	200 - 2000	**199 335 689**	0.002
50	40	1.32 - 13.20	300 - 3000	**199 335 690**	0.050
50	40	2.64 - 26.40	600 - 6000	**199 335 691**	0.002
63	50	2.64 - 26.40	600 - 6000	**199 335 692**	0.050
63	50	4.40 - 44.02	1000 - 10000	**199 335 693**	0.002
63	50	6.60 - 66.04	1500 - 15000	**199 335 694**	0.050
75	65	8.80 - 88.00	2000 - 20000	**199 335 695**	0.002
75	65	13.20 - 132.00	3000 - 30000	**199 335 696**	0.002
75	65	35.20 - 264.00	8000 - 60000	**199 335 697**	0.050



Example of special scale

Special scale for type 335/350
l/h

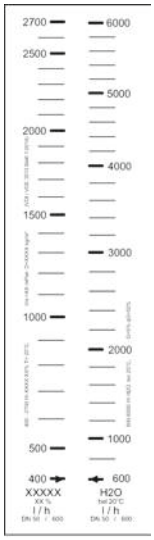
d (mm)	DN (mm)	Scale range (l/h)	Code	Weight (kg)
32	25	50 - 500	**199 335 861**	0.050
32	25	100 - 1000	**199 335 862**	0.050
40	32	150 - 1500	**199 335 863**	0.050
40	32	250 - 2500	**199 335 864**	0.050
50	40	200 - 2000	**199 335 865**	0.050
50	40	600 - 6000	**199 335 867**	0.050
50	40	300 - 3000	**199 335 866**	0.050
63	50	600 - 6000	**199 335 868**	0.050
63	50	1000 - 10000	**199 335 869**	0.050
63	50	1500 - 15000	**199 335 870**	0.050
75	65	2000 - 20000	**199 335 871**	0.050
75	65	3000 - 30000	**199 335 872**	0.050
75	65	8000 - 60000	**199 335 873**	0.050



Example of special scale

Special scale for type 335/350
Air/0bar/Nm3/h

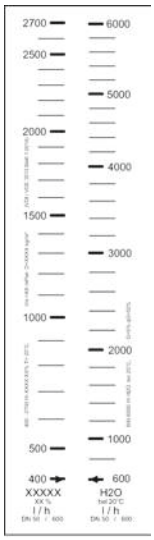
d (mm)	DN (mm)	Scale range (m^3/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	2.0 - 15.0	50 - 500	**199 350 655**	0.002
32	25	3.5 - 30.0	100 - 1000	**199 350 656**	0.050
40	32	5.0 - 45.0	150 - 1500	**199 350 657**	0.050
40	32	8.0 - 76.0	250 - 2500	**199 350 658**	0.050
50	40	7.0 - 60.0	200 - 2000	**199 350 659**	0.050
50	40	10.0 - 87.0	300- 3000	**199 350 660**	0.002
50	40	20.0 - 170.0	600 - 6000	**199 350 661**	0.050
63	50	25.0 - 180.0	600 - 6000	**199 350 662**	0.050
63	50	30.0 - 280.0	1000 - 10000	**199 350 663**	0.050
63	50	50.0 - 440.0	1500 - 15000	**199 350 664**	0.050
75	65	70.0 - 580.0	2000 - 20000	**199 350 665**	0.050
75	65	10.0 - 900.0	3000 - 30000	**199 350 666**	0.050
75	65	230.0 - 1650.0	8000 - 60000	**199 350 667**	0.050



Example of special scale

Special scale for type 335/350
HCl 30-33% l/h

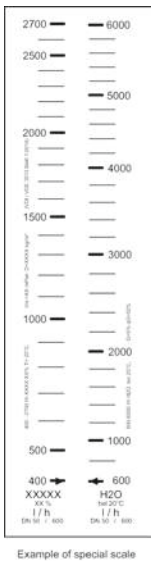
d (mm)	DN (mm)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	40 - 430	50-500	**199 350 670**	0.050
32	25	80 - 860	100-1000	**199 350 671**	0.002
40	32	150 - 1250	150-1500	**199 350 672**	0.050
40	32	200 - 2150	250-2500	**199 350 673**	0.050
50	40	200 - 1850	200-2000	**199 350 674**	0.050
50	40	300 - 2500	300-3000	**199 350 675**	0.050
50	40	600 - 4900	600-6000	**199 350 676**	0.010
63	50	600 - 5400	600-6000	**199 350 677**	0.050
63	50	800 - 8400	1000-10000	**199 350 678**	0.050
63	50	1000 - 12750	1500-15000	**199 350 679**	0.050
75	65	2000 - 17500	2000-20000	**199 350 680**	0.050
75	65	3000 - 26500	3000-30000	**199 350 681**	0.050
75	65	6000 - 50000	8000-60000	**199 350 682**	0.050



Example of special scale

Special scale for type 335/350
NaOH 30% l/h

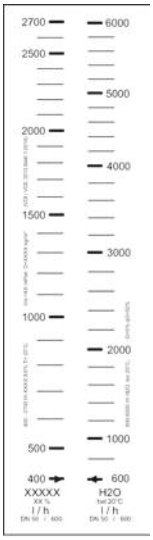
d (mm)	DN (mm)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	30 - 320	50-500	**199 350 685**	0.050
32	25	70 - 660	100-1000	**199 350 686**	0.050
40	32	100 - 900	150-1500	**199 350 687**	0.050
40	32	100 - 1600	250-2500	**199 350 688**	0.050
50	40	200 - 1400	200-2000	**199 350 689**	0.002
50	40	300 - 1950	300-3000	**199 350 690**	0.050
50	40	500 - 3800	600-6000	**199 350 691**	0.050
63	50	500 - 4300	600-6000	**199 350 692**	0.050
63	50	600 - 6600	1000-10000	**199 350 693**	0.050
63	50	750 - 9500	1500-15000	**199 350 694**	0.050
75	65	1300 - 13000	2000-20000	**199 350 695**	0.050
75	65	2600 - 20000	3000-30000	**199 350 696**	0.050
75	65	6000 - 40000	8000-60000	**199 350 697**	0.050



Example of special scale

Special scale for type 335/350
NaOH 50% l/h

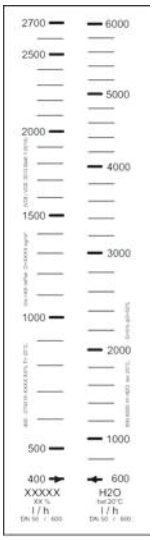
d (mm)	DN (mm)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	10 - 62	50-500	**199 350 755**	0.050
32	25	10 - 195	100-1000	**199 350 756**	0.050
40	32	20 - 350	150-1500	**199 350 757**	0.050
40	32	5 - 760	250-2500	**199 350 758**	0.050
50	40	5 - 540	200-2000	**199 350 759**	0.050
50	40	105 - 1200	300-3000	**199 350 760**	0.050
50	40	400 - 2350	600-6000	**199 350 761**	0.002
63	50	100 - 2200	600-6000	**199 350 762**	0.050
63	50	100 - 4000	1000-10000	**199 350 763**	0.050
63	50	300 - 5000	1500-15000	**199 350 764**	0.050
75	65	200 - 7000	2000-20000	**199 350 765**	0.050
75	65	400 - 9800	3000-30000	**199 350 766**	0.050
75	65	2000 - 15000	8000-60000	**199 350 767**	0.050



Example of special scale

Special scale for short version
Water l/h

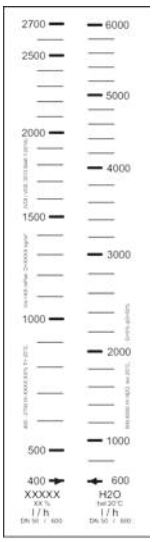
Type	Scale range (l/h)	Code
SK 50 / 500	2.5 - 25.0	**198 801 386**
SK 51 / 510	5.0 - 50.0	**198 801 387**
SK 52 / 520	10.0 - 100.0	**198 801 388**
SK 60 / 600	8.0 - 80.0	**198 801 389**
SK 61 / 610	15.0 - 150.0	**198 801 390**
SK 62 / 620	20.0 - 200.0	**198 801 391**
SK 70 / 700	15.0 - 150.0	**198 801 392**
SK 71 / 710	30.0 - 30.0	**198 801 393**
SK 72 / 720	50.0 - 500.0	**198 801 394**
SK 73 / 730	100.0 - 1000.0	**198 801 395**



Example of special scale

Special scale for short version
US GPM

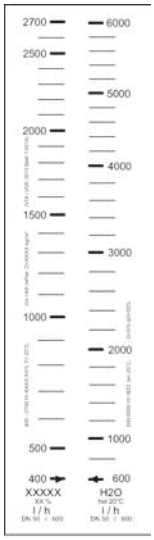
Type	Scale range (gal/min)	Code
SK 50 / 500	0.01 - 0.11	**198 801 961**
SK 51 / 510	0.02 - 0.22	**198 801 962**
SK 52 / 520	0.04 - 0.44	**198 801 963**
SK 60 / 600	0.03 - 0.35	**198 801 964**
SK 61 / 610	0.06 - 0.66	**198 801 965**
SK 62 / 620	0.08 - 0.88	**198 801 966**
SK 70 / 700	0.06 - 0.66	**198 801 967**
SK 71 / 710	0.13 - 1.32	**198 801 968**
SK 72 / 720	0.22 - 2.20	**198 801 969**
SK 73 / 730	0.44 - 4.40	**198 801 970**



Example of special scale

Special scale for short version
Air/0bar/Nm3/h

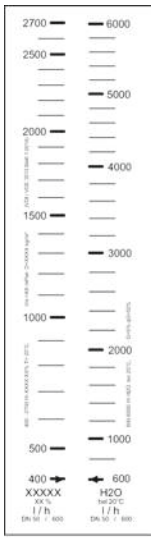
Type	Scale range (m^3/h)	Code
SK 50 / 500	0.50 - 0.95	**198 801 308**
SK 51 / 510	0.50 - 1.90	**198 801 309**
SK 52 / 520	0.80 - 3.00	**198 801 310**
SK 60 / 600	0.60 - 2.80	**198 801 311**
SK 61 / 610	1.40 - 5.60	**198 801 312**
SK 62 / 620	1.50 - 7.00	**198 801 313**
SK 70 / 700	1.00 - 6.50	**198 801 314**
SK 71 / 710	1.50 - 11.00	**198 801 315**
SK 72 / 720	3.00 - 18.00	**198 801 316**
SK 73 / 730	6.00 - 30.00	**198 801 317**



Example of special scale

Special scale for short version HCl 30 - 33% l/h

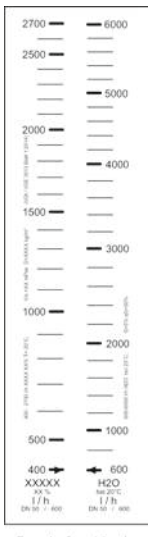
Type	Scale range (l/h)	Code
SK 50 / 500	2.5 - 20.0	**198 806 511**
SK 51 / 510	5.0 - 40.0	**198 806 512**
SK 52 / 520	10.0 - 85.0	**198 806 513**
SK 60 / 600	8.0 - 70.0	**198 806 514**
SK 61 / 610	15.0 - 125.0	**198 806 515**
SK 62 / 620	20.0 - 170.0	**198 806 516**
SK 70 / 700	5.0 - 125.0	**198 806 517**
SK 71 / 710	30.0 - 260.0	**198 806 518**
SK 72 / 720	50.0 - 425.0	**198 806 519**
SK 73 / 730	100.0 - 850.0	**198 806 520**



Example of special scale

Special scale for short version NaOH 30% l/h

Type	Scale range (l/h)	Code
SK 50 / 500	0.2 - 5.0	**198 806 521**
SK 51 / 510	1.0 - 14.0	**198 806 522**
SK 52 / 520	3.0 - 35.0	**198 806 523**
SK 60 / 600	2.0 - 23.0	**198 806 524**
SK 61 / 610	3.0 - 55.0	**198 806 525**
SK 62 / 620	5.0 - 80.0	**198 806 526**
SK 70 / 700	3.0 - 55.0	**198 806 527**
SK 71 / 710	6.0 - 130.0	**198 806 528**
SK 72 / 720	10.0 - 250.0	**198 806 529**
SK 73 / 730	40.0 - 590.0	**198 806 530**

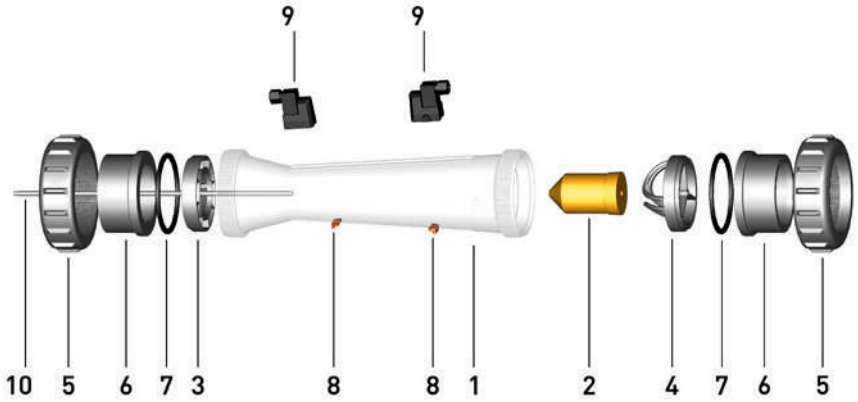


Example of special scale

Special scale for short version NaOH 50% l/h

Type	Scale range (l/h)	Code
SK 60 / 600	0.2 - 3.5	**198 806 531**
SK 61 / 610	0.5 - 10.0	**198 806 532**
SK 62 / 620	0.5 - 16.0	**198 806 533**
SK 70 / 700	0.5 - 11.0	**198 806 534**
SK 71 / 710	1.0 - 33.0	**198 806 535**
SK 72 / 720	2.0 - 80.0	**198 806 536**
SK 73 / 730	10.0 - 220.0	**198 806 537**

Spare Parts for Type 335



Taper tube Type 335 with water scale (1)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVC-U transparent Code	Polyamid Code	Polysulfone Code
32	1	25	50 - 500	**199 335 055**	**199 335 070**	**199 335 085**
32	1	25	100 - 1000	**199 335 056**	**199 335 071**	**199 335 086**
40	1 ¼	32	150 - 1500	**199 335 057**	**199 335 072**	**199 335 087**
40	1 ¼	32	250 - 2500	**199 335 058**	**199 335 073**	**199 335 088**
50	1 ½	40	200 - 2000	**199 335 059**	**199 335 074**	**199 335 089**
50	1 ½	40	300 - 3000	**199 335 060**	**199 335 075**	**199 335 090**
50	1 ½	40	600 - 6000	**199 335 061**	**199 335 076**	**199 335 091**
63	2	50	600 - 6000	**199 335 062**	**199 335 077**	**199 335 092**
63	2	50	1000 - 10000	**199 335 063**	**199 335 078**	**199 335 093**
63	2	50	1500 - 15000	**199 335 064**	**199 335 079**	**199 335 094**
75	2 ½	65	2000 - 20000	**199 335 065**	**199 335 080**	**199 335 095**
75	2 ½	65	3000 - 30000	**199 335 066**	**199 335 081**	**199 335 096**
75	2 ½	65	8000 - 60000	**199 335 067**	**199 335 082**	**199 335 097**

Taper tube Type 335 without scale (1)

Scale range (l/h)	d (mm)	Size (inch)	DN (mm)	PVC-U transparent Code	Polyamid Code	Polysulfone Code
50 - 500	32	1	25	**199 335 255**	**199 335 270**	**199 335 285**
100 - 1000	32	1	25	**199 335 256**	**199 335 271**	**199 335 286**
150 - 1500	40	1 ¼	32	**199 335 257**	**199 335 272**	**199 335 287**
250 - 2500	40	1 ¼	32	**199 335 258**	**199 335 273**	**199 335 288**
200 - 2000	50	1 ½	40	**199 335 259**	**199 335 274**	**199 335 289**
300 - 3000	50	1 ½	40	**199 335 260**	**199 335 275**	**199 335 290**
600 - 6000	50	1 ½	40	**199 335 261**	**199 335 276**	**199 335 291**
600 - 6000	63	2	50	**199 335 262**	**199 335 277**	**199 335 292**
1000 - 10000	63	2	50	**199 335 263**	**199 335 278**	**199 335 293**
1500 - 15000	63	2	50	**199 335 264**	**199 335 279**	**199 335 294**
2000 - 20000	75	2 ½	65	**199 335 265**	**199 335 280**	**199 335 295**
3000 - 30000	75	2 ½	65	**199 335 266**	**199 335 281**	**199 335 296**
8000 - 60000	75	2 ½	65	**199 335 267**	**199 335 282**	**199 335 297**

Float PVDF (2)

DN50

DN40

DN65

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	Without magnet Code	With magnet (bistabil) Code
32	1	25	50 - 500	**198 335 455**	**198 335 470**
32	1	25	100 - 1000	**198 335 455**	**198 335 470**
40	1 ¼	32	150 - 1500	**198 335 455**	**198 335 470**
40	1 ¼	32	250 - 2500	**198 335 455**	**198 335 470**
50	1 ½	40	200 - 2000 / 300 - 3000 / 600 - 6000	**198 335 457**	**198 335 471**
63	2	50	600 - 6000 / 1000 - 10000 / 1500 - 15000	**198 335 458**	**198 335 472**
75	2 ½	65	2000 - 20000	**198 335 459**	**198 335 473**
75	2 ½	65	3000 - 30000	**198 335 459**	**198 335 473**
75	2 ½	65	8000 - 60000	**199 335 460**	**199 335 474**

Insert PVDF (3,4)

top

bottom

DN25 - DN40

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	top (4) Code	bottom (3) Code
32	1	25	50 - 500	**198 335 970**	**198 335 977**
40	1 ¼	32	150 - 1500, 250 - 2500	**198 335 971**	**198 335 978**
50	1 ½	40	200 - 2000, 300 - 3000, 600 - 6000	**198 335 972**	**198 335 979**
63	2	50	600-6000, 1000-10000, 1500-15000	**199 335 974**	**198 335 893**
75	2 ½	65	2000-20000, 3000-30000, 8000-60000	**199 335 975**	**198 335 894**

Union nut (5)

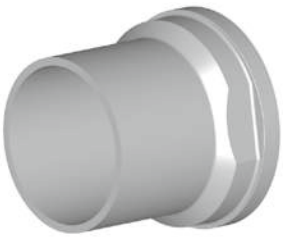
d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
32	1	25	721 890 008	723 690 008	729 890 408	727 890 408	735 690 408
40	1 ¼	32	721 890 009	723 690 009	729 890 409	727 890 409	735 690 409
50	1 ½	40	721 890 010	723 690 010	729 890 410	727 890 410	735 690 410
63	2	50	721 890 011	723 690 011	729 890 411	727 890 411	735 690 411
75	2 ½	65	198 806 429			198 806 421	198 806 422

Union end / Socket (6)

For DN65 PVDF only spigot

d (mm)	Size (inch)	DN (mm)
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65

d (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	PE80 Code
32	721 500 108	723 800 108	729 800 108	727 500 108	735 600 108	734 600 108
40	721 500 109	723 800 109	729 800 109	727 500 109	735 600 109	734 600 109
50	721 500 110	723 800 110	729 800 110	727 500 110	735 600 110	734 600 110
63	721 500 111	723 800 111	729 800 111	727 500 111	735 600 111	734 600 111
75	721 600 112	700 253 867	700 246 112	700 253 866		700 246 419

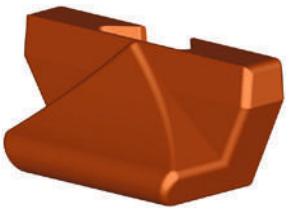


Union end / Spigot (6)

d (mm)	Size (inch)	DN (mm)	PP-H Code	PVDF Code	PE100 Code
32	1	25	727 508 508	735 608 608	753 508 608
40	1 ¼	32	727 508 509	735 608 609	753 508 609
50	1 ½	40	727 508 510	735 608 610	753 508 610
63	2	50	727 508 511	735 608 611	753 508 611
75	2 ½	65	700 256 401	175 483 013	700 246 420

O-rings (7)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
32	1	25	748 410 008	749 410 008
40	1 ¼	32	748 410 009	749 410 009
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011
75	2 ½	65	748 410 014	749 410 014



Flow value indicator PS (8)

Model:

- For all dimensions type 335/350

d (mm)	Size (inch)	DN (mm)	Flow value indicator Code
32	1	25	**198 335 990**
40	1 ¼	32	**198 335 990**
50	1 ½	40	**198 335 990**
63	2	50	**198 335 990**
75	2 ½	65	**198 335 990**

Guiding rod (10)

d (mm)	Size (inch)	Scale range (l/h)	PVDF Code
63	2	600-6000, 1000-10000, 1500-15000	**198 335 984**
75	2 ½	2000-20000, 3000-30000, 8000-60000	**198 335 984**

Insert guiding rod PVDF (for 10)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	Code
63	2	50	600-6000, 1000-10000, 1500-15000	**198 335 953**
75	2 ½	65	2000-20000, 3000-30000, 8000-60000	**198 335 954**

Guiding rod

Model:

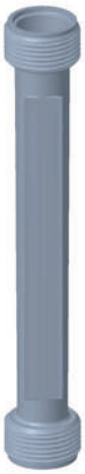
- Exchange kit consisting of: guiding rod (10), insert guiding rod (for 10) and insert bottom (3)
- Exchange Kit to exchange PEEK and stainless steel guiding rods

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVDF Code
63	2	50	600-6000, 1000-10000, 1500-15000	**199 335 895**
75	2 ½	65	2000-20000, 3000-30000, 8000-60000	**199 335 896**

Spare Parts for Variable Area Flow Meter Short Version Type SK50-SK73/ SK500-SK730

Short version taper tube Polysulfone

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	**198 801 341**
16	10	SK 51 / 510	**198 801 342**
16	10	SK 52 / 520	**198 801 343**
20	15	SK 60 / 600	**198 801 449**
20	15	SK 61 / 610	**198 801 450**
20	15	SK 62 / 620	**198 801 451**
32	25	SK 70 / 700	**198 801 445**
32	25	SK 71 / 710	**198 801 338**
32	25	SK 72 / 720	**198 801 339**
32	25	SK 73 / 730	**198 801 340**



Short version taper tube PVC-U transparent

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	**198 803 790**
16	10	SK 51 / 510	**198 803 791**
16	10	SK 52 / 520	**198 803 792**
20	15	SK 60 / 600	**198 803 793**
20	15	SK 61 / 610	**198 803 794**
20	15	SK 62 / 620	**198 803 795**
32	25	SK 70 / 700	**198 803 796**
32	25	SK 71 / 710	**198 803 797**
32	25	SK 72 / 720	**198 803 798**
32	25	SK 73 / 730	**198 803 799**

Short version float PVDF
Without magnet

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 51 / 52	**198 806 219**
20	15	SK 60 / 61 / 62	**198 806 220**
32	25	SK 70 / 71 / 72 / 73	**198 806 221**

Short version float PVDF
With magnet bistable

d (mm)	DN (mm)	Type	Code
16	10	SK 500 / 510 / 520	**198 806 222**
20	15	SK 600 / 610 / 620	**198 806 223**
32	25	SK 700 / 710 / 720 / 730	**198 806 224**

Short version float PTFE
Without magnet

d (mm)	DN (mm)	Type	Code
32	25	SK 73	**198 807 166**

Short version top insert PVDF

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500; 51 / 510; 52 / 520	**198 807 188**
20	15	SK 60 / 600; 61 / 610; 62 / 620	**198 807 187**
32	25	SK 70 / 700; 71 / 710; 72 / 720; 73 / 730	**198 807 182**

Notes

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Notes

GF Piping Systems

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www.gfps.com/our-locations

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