



TORNATECH

Project:

Customer:

Engineer:

Pump Manufacturer:

Technical Data Submittal Document

Model GT-FluxFP

Orifice Flow Meters



Contents:

Data Sheets

Dimensions and Weights

Note: The drawings included in this package are for flow meters covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.





Technical Data	
Measuring principle	Orifice plate flowmeter with variable flowmeter as indication
Input Nominal size	2"/DN 50 grooved ends (Ø60.3 mm) 2½"/DN 65 grooved ends (Ø73.0 mm) 3"/DN 80 grooved ends (Ø88.9 mm) 4"/DN 100 grooved ends (Ø114.3 mm) 6"/DN 150 grooved ends (Ø168.3 mm) 8"/DN 200 grooved ends (Ø219.1 mm) 10"/DN 250 grooved ends (Ø273.0 mm) 12"/DN 300 grooved ends (Ø323.9 mm)
Operating pressures	500 PSI (34.5 bar) from 2" (Ø60.3 mm) to 8" (Ø219.1 mm) 232 PSI (16 bar) from 10" (Ø219.1 mm) to 12" (Ø323.9 mm)
Hydrostatically strength/Pressure strength	1000 PSI (69 bar) for 5 minutes
Measuring accuracy	±2.0 % of full scale value (FM)
Application conditions - Temperature limit - Medium	+4 °C to +50 °C (+39 °F to +122 °F) - Water
Design/ Material - Orifice plate 2"/DN 50 - 4"/DN 100 6"/DN 150 - 12"/DN 300 - Differential pressure tube - Float - Bypass orifice - Filter - Seal	- Housing tube in stainless steel with turned grooved connection coated steel (RAL 3002) with rolled grooved connection¹⁾ - Brass - Stainless steel - Stainless steel - Stainless steel - NBR
Certifications	FM Approval No.: PR455499

¹⁾ optional in stainless steel with rolled grooved connection



Dimensions and Weights

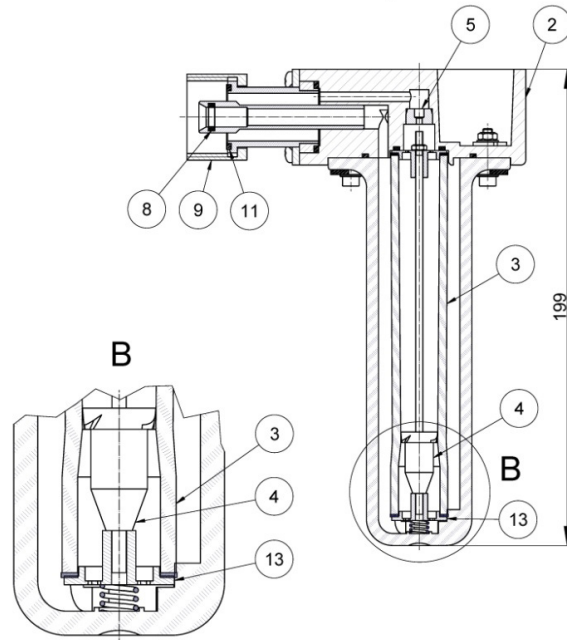
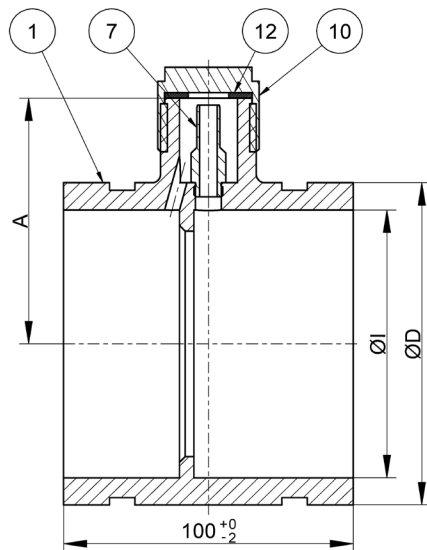
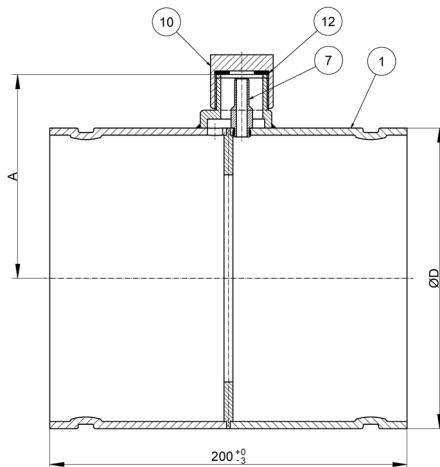


Fig. 1 GT-FluxFP orifice plate and bypass meter, Drawing and dimensions 2"/DN 50 - 4"/DN 100



- ① Housing tube
- ② Bypass meter
- ③ Measuring tube
- ④ Float
- ⑤ Bypass orifice
- ⑦ Differential pressure
- ⑧ O-Ring
- ⑨ Screw cap
- ⑩ Cap
- ⑪ O-Ring
- ⑫ Seal
- ⑬ Filter

Fig. 2 GT-FluxFP orifice plate, Drawing and dimensions 6"/DN 150 - 12"/DN 300

Normal Size	Dimensions Inch (mm)		Packaging Size Inch (mm)	Weight (Average) incl. packing lbs (kg)
	Length	Diameter (Outside)		
2"/DN 50	3 ¹⁵ / ₁₆ " (100)	2 ³ / ₈ " (60.3)	15 (380) x 11 (270) x 10 (250)	4.5 (2.0)
2½"/DN 65	3 ¹⁵ / ₁₆ " (100)	2 ⁷ / ₈ " (73.0)	15 (380) x 11 (270) x 10 (250)	5 (2.1)
3"/DN 80	3 ¹⁵ / ₁₆ " (100)	3½" (88.9)	15 (380) x 11 (270) x 10 (250)	5.07 (2.3)
4"/DN 100	3 ¹⁵ / ₁₆ " (100)	4½" (114.3)	15 (380) x 11 (270) x 10 (250)	7.06 (3.2)
6"/DN 150	7 ⁷ / ₈ " (200)	6½" (168.3)	15 (380) x 11 (270) x 10 (250)	11 (5.0)
8"/DN 200	7 ⁷ / ₈ " (200)	8 ⁵ / ₈ " (219.1)	15 (380) x 11 (270) x 10 (250)	14.11 (6.4)
10"/DN 250	7 ⁷ / ₈ " (200)	10 ³ / ₄ " (273.0)	20 (500) x 14 (350) x 12 (300)	20.06 (9.1)
12"/DN 300	7 ⁷ / ₈ " (200)	12 ³ / ₄ " (323.9)	20 (500) x 14 (350) x 14 (350)	24.03 (11)



Description Code

GTFluxFP - 01

①

②

1	FM Approved
2	Model (from table on page 16)

Nominal Size/Pump Rating

Model	Nominal size grooved ends	Pump rating USgpm	Flow range		Approved
			USgpm	LPM	FM
OEBO	2"/DN 50 (Ø60.3)	50	20 - 100	75 - 375	X
OUCO	2½"/DN 65 (Ø73.0)	100	40 - 200	150 - 750	X
OGDO	3"/DN 80 (Ø88.9)	150	60 - 300	220 - 1100	X
OGE0	3"/DN 80 (Ø88.9)	200	80 - 400	300 - 1500	X
OHFO	4"/DN 100 (Ø114.3)	250	100 - 500	380 - 1900	X
OHGO	4"/DN 100 (Ø114.3)	300	120 - 600	460 - 2 300	X
OHHO	4"/DN 100 (Ø114.3)	400	160 - 800	600 - 3 000	X
OHJO	4"/DN 100 (Ø114.3)	450	180 - 900	680 - 3 400	X
OKKO	6"/DN 150 (Ø168.3)	500	200 - 1 000	760 - 3 800	X
OKLO	6"/DN 150 (Ø168.3)	750	300 - 1 500	1 130 - 5 650	X
OKMO	6"/DN 150 (Ø168.3)	1 000	400 - 2 000	1 500 - 7 500	X
OKNO	6"/DN 150 (Ø168.3)	1 250	500 - 2 500	1 900 - 9 500	X
OLPO	8"/DN 200 (Ø219.1)	1 500	600 - 3 000	2 200 - 11 000	X
OLQO	8"/DN 200 (Ø219.1)	2 000	800 - 4 000	3 000 - 15 000	X
OLRO	8"/DN 200 (Ø219.1)	2 500	1 000 - 5 000	3 800 - 19 000	X
OLS0	8"/DN 200 (Ø219.1)	3 000	1 200 - 6 000	4 500 - 22 500	X
OMT0	10"/DN 250 (Ø273.0)	3 500	1 400 - 7 000	5 300 - 26 500	X
OMU0	10"/DN 250 (Ø273.0)	4 000	1 600 - 8 000	6 000 - 30 000	X
OMV0	10"/DN 250 (Ø273.0)	4 500	1 800 - 9 000	6 800 - 34 000	X
ONW0	12"/DN 300 (Ø323.9)	5 000	2 000 - 10 000	7 600 - 38 000	X