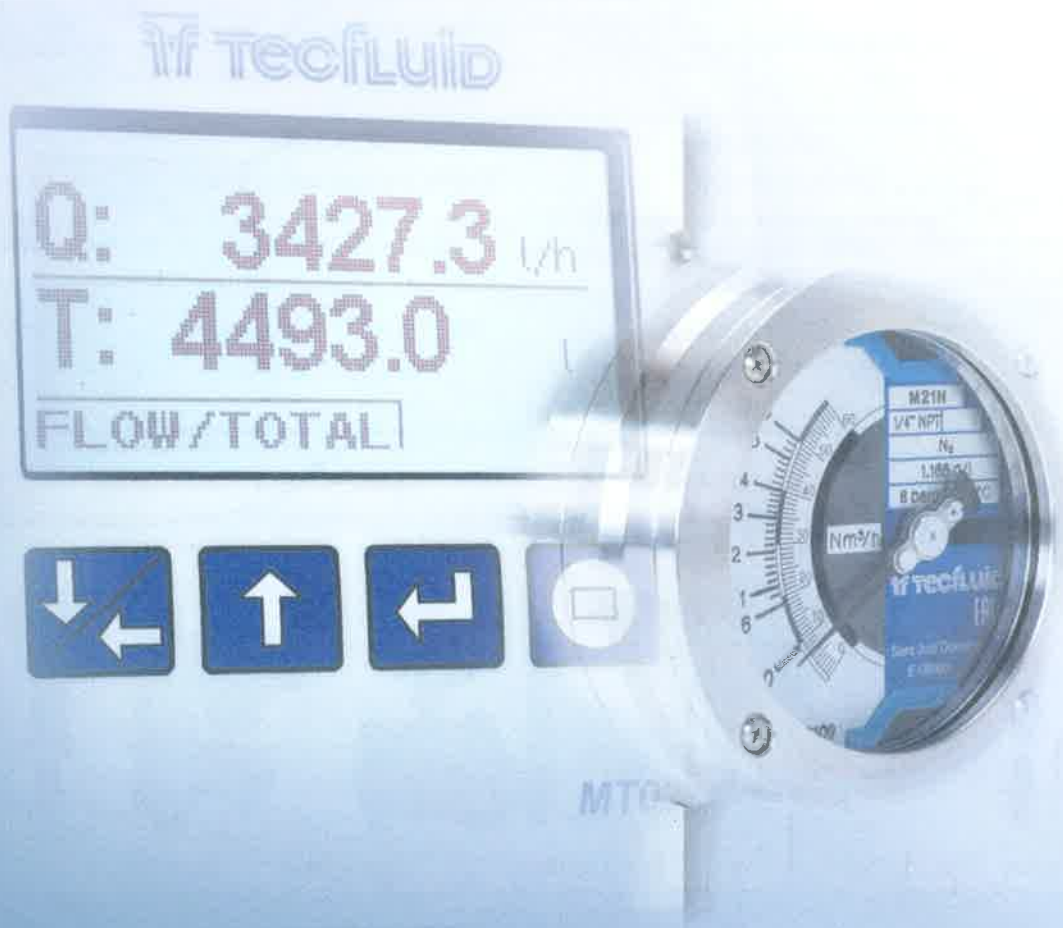




TECFLUID

the art of measuring



flow & level industrial instrumentation



FOR UNDERSTANDING THE WORLD WE NEED INSTRUMENTS TO MEASURE

MANUFACTURING CHRONOLOGY

- 1974** Borosilicate glass tube variable area flowmeters
- 1976** Magnetic coupling flowmeters
 - Metal tube variable area flowmeters
 - Target disk flowmeters
- 1978** Oscillating piston flowmeters
 - Turbine flowmeters
- 1979** Level indicators and switches activated by magnetic coupling
- 1980** By-pass flowmeters (orifice plate)
- 1984** Electronic converters
- 1987** Flow switches
- 1990** Electromagnetic flowmeters
- 1992** Plastic tube variable area flowmeters
- 1997** Vibrating fork level switches
- 2001** ATEX and Lloyd's Type Approval Certifications
- 2003** HART® communication protocol
- 2006** Ultrasonic level transmitters
- 2010** Guided radar level transmitters
- 2015** New line of electronic converters
 - TR CU Certificate of conformity
- 2018** IECEx Certification
- 2022** UK CA Certification
- 2024** Calorimetric flowmeters and switches

In 1974, the company we know as TECFLUID emerged from the hand of its founder Jordi Picazo.

Jordi's vision, his conviction and knowledge of both the industrial world and the product itself, and the fact that manufacturing in our country brought numerous benefits, pushed him to want to supply his own equipment for flow measurement.

TECFLUID began its activity as a manufacturer with the series of glass tube variable area flowmeters (series 6000), continuing with the SC250 and DP series of magnetic coupling flowmeters, until reaching the current range, which goes from purely mechanical products to equipment with high added value that incorporates advanced and reliable process electronics.

Jordi's way of working, his passion for his work and his seriousness in dealing with clients are factors that are present in each of the people who make up TECFLUID and its current partners.

My sister Marta and I, her daughters, knowledgeable about both the product and the roots of TECFLUID, continue to move forward with the same conviction that a job well done and the commitment to the customer are essential guidelines for success.

On behalf of the entire TECFLUID team, we thank you for continuing to trust our brand after 50 years.

Eva Picazo - CEO

“Common sense has solved my problems better than my own knowledge. Just think...”

Jordi Picazo, Founder of Tecfluid S.A. (1944-2023)



Series PS

Plastic tube variable area flowmeters



1/2" ... 3"

Sizes

Flow range H₂O

4 l/h ... 50 m³/h

Flow range AIR

200 NI/h ... 1500 Nm³/h

Accuracy

4% ... 6% (q_G=50%)

Materials

Flow tube: Polysulfone (PSU) or NAS®
Connections: PVC, PP, painted steel,
EN 1.4404 (AISI 316L)

Features
Accessories
Options

1 or 2 switches
4-20 mA output (max. resolution 18 points)
Ex version and HART®, Profibus, Fieldbus or
MODBUS RTU RS485 protocols on request

Series 2000

Glass tube variable area flowmeters
for low flows



1/4" ... 3/4"

0.1 l/h ... 1000 l/h

0.5 NI/h ... 30 Nm³/h

1.6% ... 3.5% (q_G=50%)

Flow tube: borosilicate glass
Connections: EN 1.4404 (AISI 316L)

1 or 2 switches
Regulating valve
Constant flow regulator

Series 6000

Glass tube variable area flowmeters



1/2" ... 3"

2.5 l/h ... 50 m³/h

40 NI/h ... 1500 Nm³/h

1.6% (q_G=50%)

Flow tube: borosilicate glass
Connections: painted steel, EN 1.4404
(AISI 316L), PVC, PP, PTFE, PVDF

1 or 2 switches
4-20 mA output (max. resolution 18 points)
Ex version and HART®, Profibus, Fieldbus or
MODBUS RTU RS485 protocols on request



Series 60M1

Glass tube variable area flowmeters
for low flows



1/4" or 1/2"

Sizes

Flow range H₂O

0.1 l/h ... 100 l/h

Flow range AIR

0.5 NI/h ... 3600 NI/h

Accuracy

3% (q_G=50%)

Materials

Flow tube: borosilicate glass
Connections: EN 1.4404 (AISI 316L)

Features
Accessories
Options

=

Series PR

Orifice plate flowmeters



DN50 ... DN1000

2 m³/h ... 20000 m³/h

30 Nm³/h ... 300000 Nm³/h

±4% f.s.

Plastic coated steel, PVC, PP,
EN 1.4404 (AISI 316L)

1 or 2 switches
4-20 mA output

Ex version and HART®, Profibus, Fieldbus or
MODBUS RTU RS485 protocols on request
depending on the transmitter model

Series AD / VH

Flow switches and indicators



AD: 1/4" ... 2 1/2" / VH: DN32 ... DN500

AD: 15 l/h ... 16000 l/h

AD: 300 NI/h ... 130 Nm³/h

AD: ±5% f.s.



AD: brass, EN 1.4404 (AISI 316L), aluminium
VH: EN 1.4404 (AISI 316L), PTFE

VH: insertion switch (1"). Non-adjustable
switching position

AD: up to 4 switches depending on model

4-20 mA output for models ADI

Ex version and HART® or MODBUS RTU
RS485 protocols on request

	Series M21 Metal tube variable area flowmeters for low flows	Series SC250 Metal tube variable area flowmeters	Series DP Target disk flowmeters
			
Sizes	1/4" ... 3/4"	DN15 ... DN150	DN40 ... DN500
Flow range H₂O	0.4 l/h ... 1000 l/h	2.5 l/h ... 180 m ³ /h	0.8 m ³ /h ... 1600 m ³ /h
Flow range AIR	12 NI/h ... 30 Nm ³ /h	70 NI/h ... 5500 Nm ³ /h	45 Nm ³ /h ... 24000 Nm ³ /h
Accuracy	4% (q _G =50%)	2.5% (q _G =50%)	DP65: ±2.5% f.s. / DP500: ±4% f.s.
Materials	EN 1.4404 (AISI 316L), Titanium, Hastelloy C	EN 1.4404 (AISI 316L), PVC, PP, PTFE, Titanium, Hastelloy C	Painted steel, EN 1.4404 (AISI 316L), Hastelloy C
Features	1 or 2 switches 4-20 mA output	1 or 2 switches 4-20 mA and digital outputs, totalizer	1 or 2 switches 4-20 mA and digital outputs, totalizer
Accessories	Ex version and HART® or MODBUS RTU RS485 protocols on request	Ex version and HART® or MODBUS RTU RS485 protocols on request	Ex version and HART® or MODBUS RTU RS485 protocols on request
Options	Regulating valve Constant flow regulator AISI 316L housing optional	Programmable by means of PC & USB cable AISI 316L or PP housing optional Accuracy 1.6% (q _G =50%)	Programmable by means of PC & USB cable AISI 316L or PP housing optional Accuracy DP65 ±1.6% f.s.

	Series CTR Calorimetric flowmeters and switches	Series FLOMID Electromagnetic flowmeters	Series FLOMAT Insertion electromagnetic flowmeters
			
Sizes	1/4" ... 3/4"	DN3 ... DN500	DN40 ... DN2000
Flow range H₂O	-	5 l/h ... 7060 m ³ /h	900 l/h ... 113000 m ³ /h
Flow range AIR	up to 170 m ³ /h	-	-
Accuracy	pending of confirmation	±0.5% measured value	±3.5% measured value
Materials	Sensor: Ceramics Body: EN 1.4404 (AISI 316L)	Lining: PP, PVDF, Ebonite, PTFE Electrodes: Hastelloy C, EN 1.4404 (AISI 316L), Titanium, Tantalum	Sensor: EN 1.4404 (AISI 316L), PVDF Head: PVDF Electrodes: EN 1.4404 (AISI 316L). Others on request
Features	CTR: Flow indication, totalizer 4-20 mA and digital outputs	Flow indication, totalizer 4-20 mA and pulse outputs	Flow indication, totalizer 4-20 mA and pulse outputs
Accessories	CTD: Digital output	2 alarm outputs	2 alarm outputs
Options	MODBUS RTU RS485 protocol on request Programmable by means of PC & USB cable Digital display on request for CTR models	HART® or MODBUS RTU RS485 protocols on request Programmable by means of PC & USB cable	HART® or MODBUS RTU RS485 protocols on request Programmable by means of PC & USB cable FLOMAT-TAP for maintenance purposes without flow interruptions



Series TM
Turbine flowmeters



Series COVOL
Oscillating piston flowmeters



Series CIP / CP / MT / DFD420
Displays and converters



<i>Sizes</i>	DN15 ... DN150	DN10 ... DN100	Associated to series COVOL, TM and others
<i>Flow range H₂O</i>	400 l/h ... 650 m ³ /h	25 l/h ... 60 m ³ /h	-
<i>Flow range AIR</i>	-	-	-
<i>Accuracy</i>	±0.5% measured value	±0.8% measured value	Depending on associated converter
<i>Materials</i>	Body: EN 1.4404 (AISI 316L) Propeller: EN 1.4460 (AISI 329), EN 1.4016 (AISI 430) Shaft / bearing: tungstene carbide / graphite	Body: EN 1.4404 (AISI 316L), PVC, PP, PTFE Piston: PTFE-graphite, PVDF, bronze, aluminium	-
<i>Features Accessories Options</i>	Pick-up coil output Displays and converters: CIP, CP, MT03 and DFD420 HART® or MODBUS RTU RS485 protocols on request Ex d IIC T6 version on request	Viscosity up to 120000 mPa·s Reed switch output Displays and converters: CIP, CP, MT03 and DFD420 HART® or MODBUS RTU RS485 protocols on request Ex d IIC T6 version on request	CIPII: non-resettable totalizer and resettable partial counter CP420: flow indication, totalizer, 4-20 mA output. HART® protocol for models CH420 MT03/MT04: flow indication, totalizer, 4-20 mA and pulse outputs and 2 x relay outputs. MODBUS RTU RS485 protocol on request DFD420: pulse divider with opto-isolated and 4-20 mA outputs



Series LT / LS
Level indicators, transmitters and
switches



Series LP
Level indicators, transmitters and
switches



Series NPC
Level indicators



<i>Measuring range</i>	0.15 ... 15 m	0.3 ... 6 m	Up to 15 m
<i>Accuracy</i>	±10 mm	±5 mm measured value	±10 mm
<i>Materials</i>	LT: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF LS: EN 1.4404 (AISI 316L)	Body: EN 1.4404 (AISI 316L), Hastelloy C, Titanium Float: EN 1.4404 (AISI 316L), PVC, PP, PVDF, Hastelloy C, Titanium	Pulleys and counterweight (external indicator): PVC Float: PP, PVC, PVDF, EN 1.4404 (AISI 316L)
<i>Features Accessories Options</i>	LT: Side mounted LS: Top mounted Adjustable switches. Ex d IIC T6 version optional for LT series 4-20 mA output (plastic housing, aluminium optional) Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request	Side or top mounted 1 or 2 switches 4-20 mA and digital outputs Ex version and HART® or MODBUS RTU RS485 protocols on request Programmable by means of PC & USB cable AISI 316L or PP housing optional	Adjustable switches 4-20 mA output (plastic housing, aluminium optional) Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request

Series LTDR
Guided radar TDR level transmitters

Series LU
Ultrasonic level transmitters

Series LR
Radar level transmitters



Measuring range

Single rod probe: 100 ... 3000 mm
Coaxial probe: 100 ... 6000 mm
Rope probe: 1 ... 20 m

Liquids: up to 12 m
Solids: up to 7 m

Up to 15 m

Accuracy

±3 mm

±2 mm (between 0.35 ... 2 m)

C11: ±5 mm ; C21: ±2 mm

Materials

EN 1.4404 (AISI 316L)
PTFE coating on request

Body: PP, PVDF
Transducer: PVDF
Housing: polycarbonate, aluminium

Body: PVDF
Seal: FKM (VITON®)
Cable: isolated with PVC or PUR

Features
Accessories
Options

Top or side mounted
Suitable for liquids and solids
4-20 mA output, 1 alarm output
Ex version and extended temperature range version on request
MODBUS RTU RS485 protocol on request

Top mounted
Suitable for liquids and solids
Level indication (display optional)
4-20 mA output, 2 alarm outputs
HART® or MODBUS RTU RS485 protocols on request
Programmable by means of PC & USB cable

Top mounted
Suitable for liquids and solids
4-20 mA output
HART® or MODBUS RTU RS485 protocols on request
Programmable by means of Bluetooth or dedicated software

Series LC / LE
Float level switches and transmitters

Series LC40
Float level switches

Series LD
Vibrating fork level switches



Measuring range

0.3 ... 6 m

Switching differential: 52 ... 1100 mm

Detection length: up to 2 m

Accuracy

±10 mm

Hysteresis ±2 mm (with H₂O)

Materials

Body and float: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF
Housing: polycarbonate, aluminium

Body and float: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF
Housing: aluminium, PVC, AISI 316L

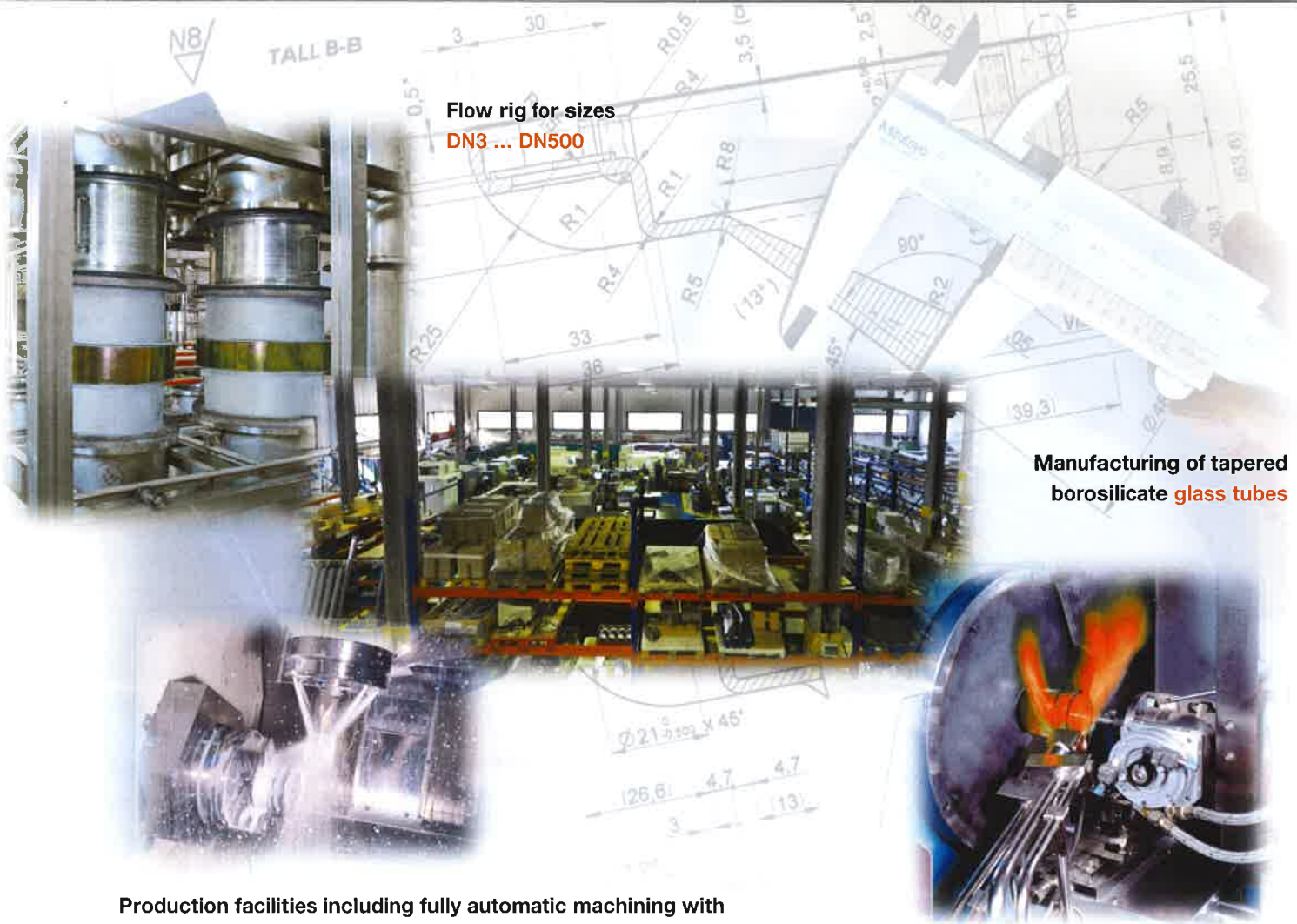
EN 1.4404 (AISI 316L)
HALAR® coating on request

Features
Accessories
Options

Top mounted. Side mounted with special design
LC: 1 ... 6 switches depending on model. Ex version
LE: 4-20 mA output, Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request

Side or top mounted
Alarm switches: micro-switch (AMM), reed (AMR), pneumatic (AMP), inductive (AMD)
Ex d IIC T6 version on request

Side or top mounted
Suitable for liquids (model LD61) and for solids (model LD60)
NAMUR Exi version and relay output on request



Flow rig for sizes
DN3 ... DN500

Manufacturing of tapered
borosilicate glass tubes

Production facilities including fully automatic machining with
 ± 0.001 mm accuracy, welding center and electronics manufacture

Subsidiary
Tecfluid France S.A.R.L.
Paris

Main offices and production facilities
Sant Just Desvern (Barcelona)

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