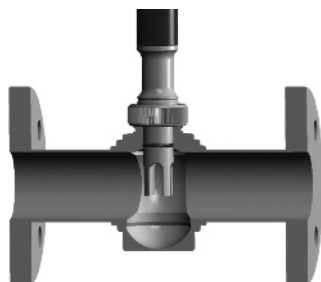


InFlow Series

Modular, highly adaptable flow-through housings

Technical Data



InFlow 76X



InFlow 751

Short description

InFlow® 76X flow-through housings from METTLER TOLEDO are designed to enable safe and reliable mounting of the InTrac® and InFit® Series sensor housings directly into the process or in a bypass (pipe). These rugged flow-through housings are specially suited to the requirements of the process industry and can be easily and safely installed, allowing reliable measurement procedures.

InFlow 751 flow-through housings serve for the direct fitting of METTLER TOLEDO electrodes and sensors for the measurement of pH, ORP, dissolved oxygen, conductivity and turbidity, particularly in the field of industrial wastewater treatment. The housings protect electrodes/sensors against mechanical damage.

These flow-through housings feature the following highlights:

- optimally designed for use with METTLER TOLEDO housings and sensors
- available in different materials
- wide pressure and temperature ranges
- 180° or 90° versions available
- highly adaptable process connection

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Suitable InTrac and InFit housings	6	Product key InFlow 751	11
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Ordering information InFlow 762	7		

METTLER TOLEDO

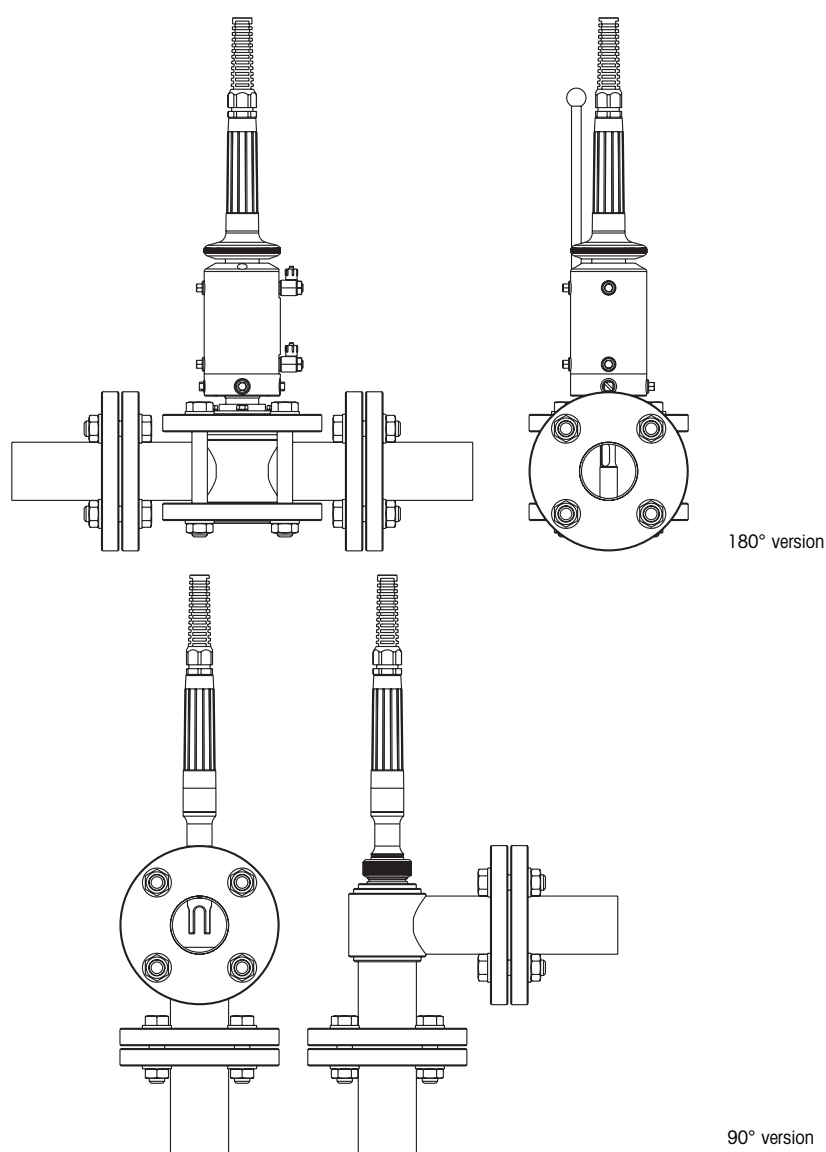
System structure InFlow 76X Series

The InFlow 76X Series of modular flow-through housings work in conjunction with our InTrac and InFit housings, and available in stainless steel (1.4404/316L) or PVDF. For adaption of the InTrac or InFit housings, a DN50 flange or DN25 INGOLD socket are available.

The InFlow 76X can be directly integrated into a process or bypass pipe by using our available DIN or ANSI flange adaptors with dimensions DN25 (1") or DN50 (2"). Direct welding into a pipe is also possible. For optimal adaption to the process, we can supply both 180° and 90° versions.

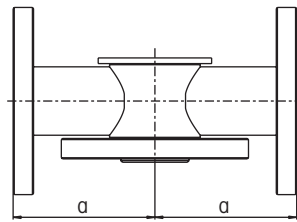
The InFlow 76X Series is a highly flexible connection system for the optimal integration of a measuring loop.

Complete measuring system and possible installation

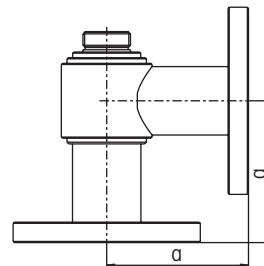


Examples of possible assembly of an InFlow flow-through housing on a pipe, either as a 180° or 90° version. There is the choice of combination with either an InTrac or an InFit housing.

Dimensional drawings InFlow 76X Series



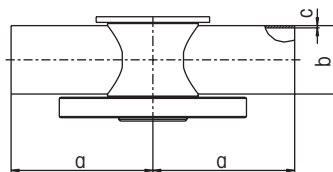
180° version



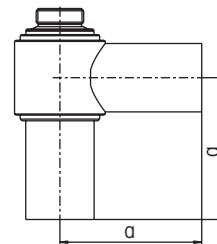
90° version

Flow-through housing with flange connection

	a
InFlow 761, 1.4404/316L	125 mm/4.92"
InFlow 762, PVDF	150 mm/5.91"



180° version

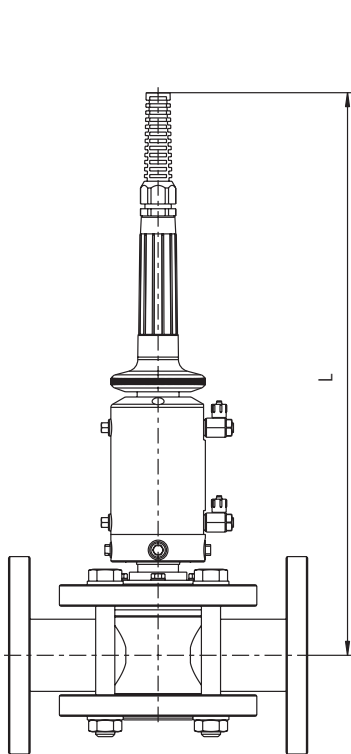


90° version

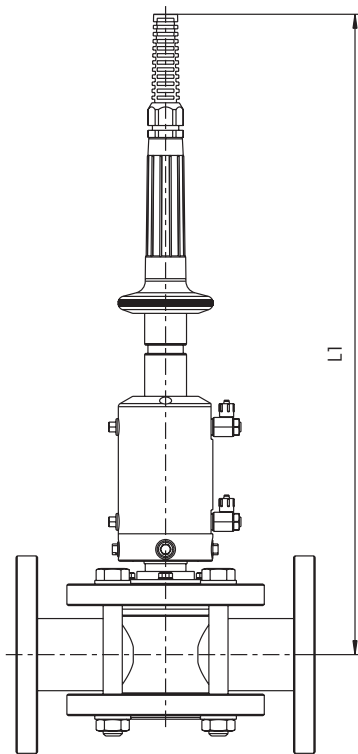
Flow-through housing with welded connection

	a	b	c
InFlow 761, 1.4404/316L			
DN25	125 mm/4.92"	33.7 mm/1.33"	2.0 mm/0.08"
DN50	125 mm/4.92"	60.3 mm/2.37"	2.0 mm/0.08"
InFlow 762, PVDF			
DN25	150 mm/5.91"	32 mm/1.26"	2.4 mm/0.09"
DN50	150 mm/5.91"	63 mm/2.48"	3.0 mm/0.12"

Dimensional drawings InFlow 76X Series (cont.)

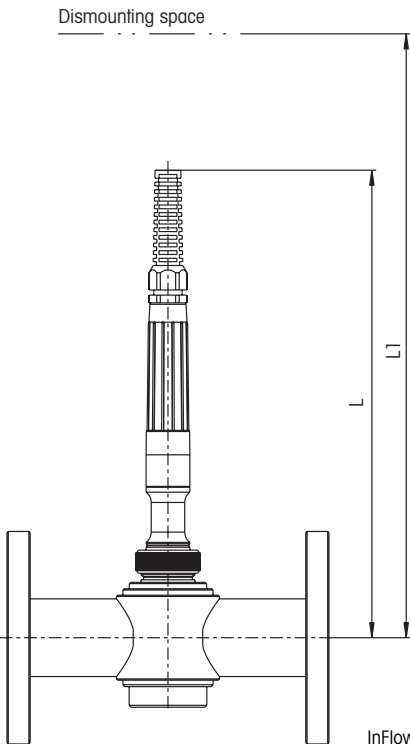


Measuring position



InFlow 76X with InTrac 777 e

Maintenance position



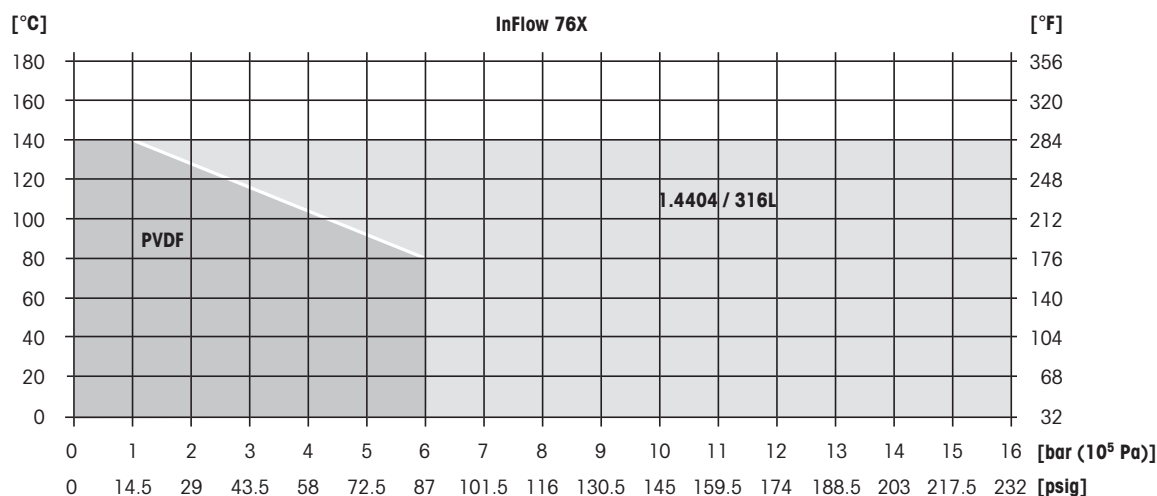
InFlow 76X with InFit 761 e

Flow-through housing in combination with InFit and InTrac housing			
	L		L1
InTrac 776 e	650 mm/25.59"		715 mm/28.15"
InTrac 777 e	470 mm/18.5"		535 mm/21.06"
InFit 764 e	510 mm/20.08"		640 mm/25.2"
InFit 761 e	363 mm/14.29"		493 mm/19.41"

Technical specifications InFlow 76X

Ambient conditions	
Temperature	–40 ... +100 °C (–40 ... +212 °F)
Max. admissible pressure [PS]/[TS] (linear relation)	PVDF: 6 bar/80 °C (87 psig/176 °F) 1 bar/140 °C (14.5 psig/284 °F)
	1.4404/316L: 16 bar/140 °C (232 psig/284 °F)
	Please refer to the pressure/temperature diagram on page 6!
Medium-wetted materials	
InFlow 761:	1.4404/316L
InFlow 762:	PVDF (version INGOLD DN25 with Viton O-ring)
Weight	InFlow 761: approx. 10 kg (22 lbs)
	InFlow 762: approx. 6 kg (13 lbs)
Pressure domain	
According to PED 97/23/EC, Article 1, Section 2.2: "Pressure" means pressure relative to atmospheric pressure, i.e. gauge pressure. As a consequence, vacuum is designated by a negative value.	
Certificates/approvals	
<ul style="list-style-type: none"> – Depending on housing model, following certificates/approvals are included: – CE Declaration of Conformity – Pressure Equipment directive, – Certificate of Conformity according to EN10204 2.1, material certificate according to 3.1B 	

Pressure/temperature diagram



Suitable InTrac and InFit housings

InFlow	InTrac	InFit
InFlow 761, 1.4404/316L		
InFlow 761 INGOLD DN25	InTrac series housing with recommended insertion length 70–100mm; stainless steel, and DN25 Ingold housing adaptation.	InFit 76X/xS/70/4435/ D00/xxxx InFit 76X/xS/70/4435/ D11/xxxx InFit 76X/xS/70/4435/ D10/xxxx
InFlow 761 flange DN50	InTrac series housing with recommended insertion length 70–100mm; stainless steel, and DN50 flange housing adaptation.	on request
InFlow 762, PVDF		
InFlow 762 INGOLD DN25	InTrac series housing with recommended insertion length 70–100mm; PVDF, and DN25 Ingold housing adaptation.	InFit 76X/xS/70/PVDF/ D00/xxxx
InFlow 762 flange DN50	InTrac series housing with recommended insertion length 70–100mm; PVDF, and DN50 flange housing adaptation.	InFit 76X/xS/70/PVDF/ D04/xxxx

Please contact your local METTLER TOLEDO representative for more options

Material *									
1	/	4	4	0	4	1.4404/316L			
2	/	P	V	D	F	PVDF (polyvinylidenefluoride)			
Flow-through direction									
1	8	0	180°						
—	9	0	90°						
Process connection *									
D	2	5	DIN flange DN25 PN16						
D	5	0	DIN flange DN50 PN16						
A	0	1	ANSI flange A150-1"						
A	0	2	ANSI flange A150-2"						
W	2	5	Welding connection DN25 (1")						
W	5	0	Welding connection DN50 (2")						
Housing connection *									
D	0	0	INGOLD DN25						
D	0	4	DIN flange DN50						
Special									
—	Standard								
S	Special								

* others on request

The PVDF version with INGOLD DN25 socket is fitted with a medium-wetted O-ring made of Viton®. O-ring sets made of EPDM and Kalrez® are available as accessories.

- | | |
|----------------------------------------|------------------|
| Ordering information InFlow 76X | Order No. |
|----------------------------------------|------------------|

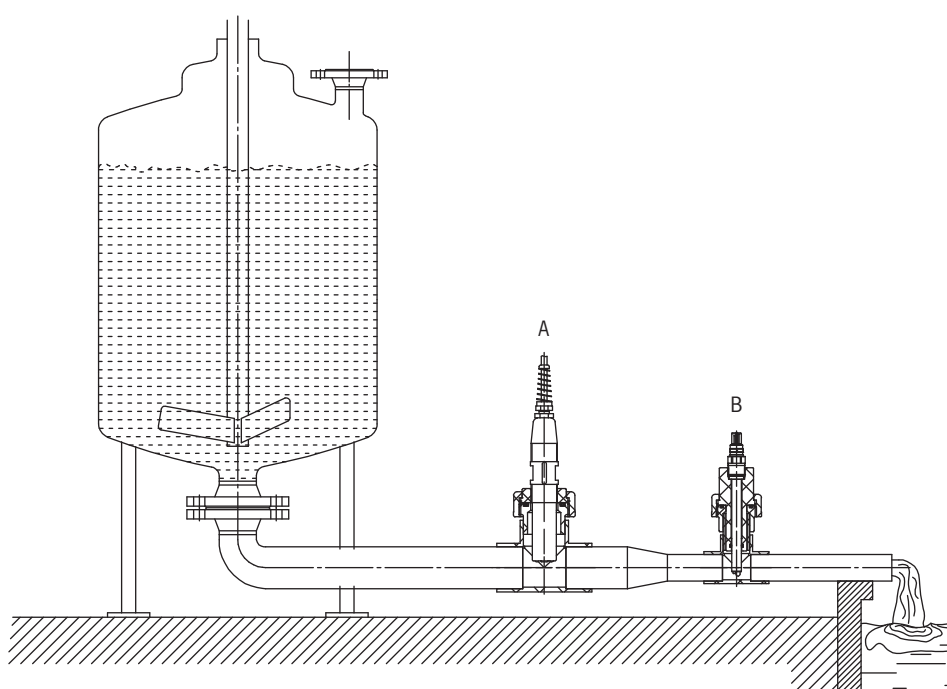
InFlow 762	
InFlow762/PVDF/180/D25/D00/-	59800816
InFlow762/PVDF/180/A02/D00/-	59800842
InFlow762/PVDF/180/W25/D00/-	59800843

Accessories for InFlow 762	
O-ring set for InFlow 762 with INGOLD DN25, EPDM	52 403 716
O-ring set for InFlow 762 with INGOLD DN25, Kalrez	52 403 717
O-ring set for InFlow 762 with INGOLD DN 25, Viton	52 403 715

System structure InFlow 751 Series

InFlow 751 flow-through housings serve for the direct fitting of METTLER TOLEDO electrodes and sensors for the measurement of pH, ORP, dissolved oxygen, conductivity and turbidity, particularly in the field of industrial wastewater treatment. The housings protect electrodes/sensors against mechanical damage.

The plug-in connection allows easy, uncomplicated change of electrode/sensor. All parts of the housing which come into contact with the process medium are made of PVC or PVDF. Process-wetted O-rings are made of Viton.

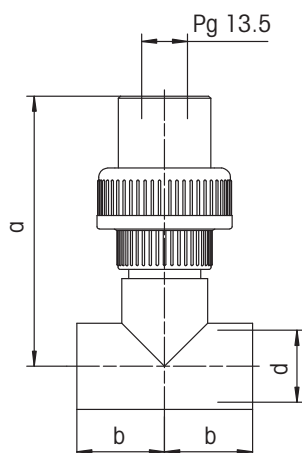
Complete measuring system and possible installation

Pipe installation in PVC or PVDF lines

A InFlow 751 with 1" NPT electrode

B InFlow 751 with 12 mm sensor/electrode

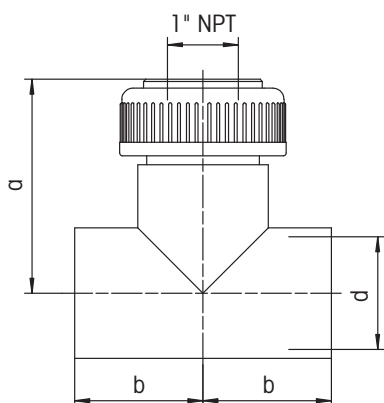
Dimensional drawings InFlow 751 Series



InFlow 751 – Pg 13.5

Pg 13.5	d	PVC		PVDF	
		a	b	a	b
DN25	32 (1.26")	120 (4.70")	39 (1.53")	120 (4.70")	38 (1.49")
DN40	50 (1.97")	113 (4.45")	57 (2.24")	113 (4.45")	51 (2.01")
DN50	63 (2.48")	107.5 (4.23")	71 (2.80")	106.5 (4.19")	

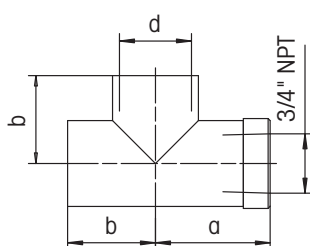
All dimensions in mm (inch)



InFlow 751 – NPT 1"

NPT 1"	d	PVC		PVDF	
		a	b	a	b
DN40	50 (1.97")	93 (3.66")	57 (2.24")	88 (3.46")	51 (2.01")
DN50	63 (2.48")	108 (4.25")	71 (2.80")	102 (4.19")	62 (2.44")

All dimensions in mm (inch)



InFlow 751 – NPT 3/4"

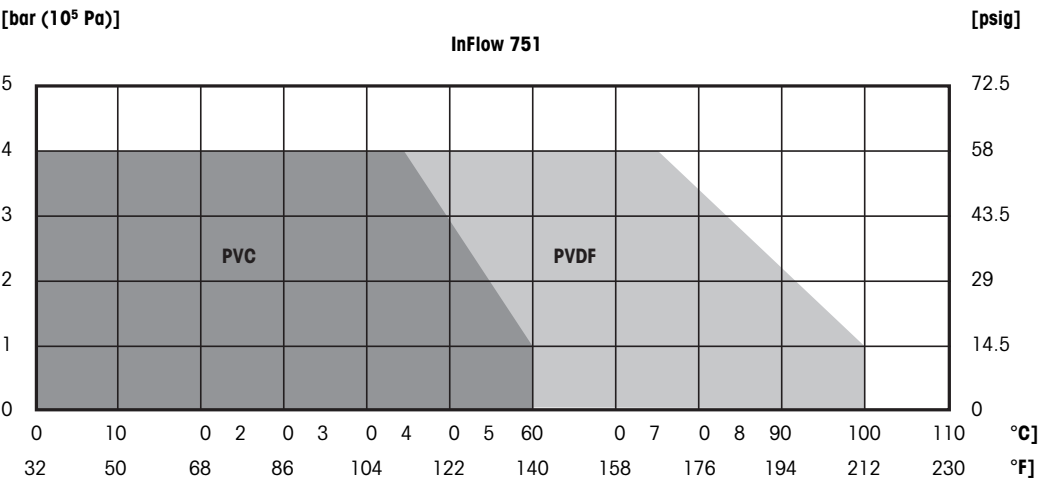
NPT 3/4"	d	PVC		PVDF	
		a	b	a	b
DN25	32 (1.26")	51 (2.01")	39 (1.53")	51 (2.01")	38 (1.49")
DN40	50 (1.97")	63 (2.48")	57 (2.24")	63 (2.48")	51 (2.01")
DN50	63 (2.48")	77 (3.03")	71 (2.80")	77 (3.03")	62 (2.44")

All dimensions in mm (inch)

Technical specifications InFlow 751

Ambient conditions	
Temperature	0 ... 70 °C (32 ... 158 °F)
Max. admissible pressure [PS]/[TS] * (linear relation)	PVC: 4 bar/45 °C (58 psig/113 °F) 1 bar/60 °C (14.5 psig/140 °F) PVDF: 4 bar/75 °C (58 psig/167 °F) 1 bar/100 °C (14.5 psig/212 °F) Please refer to the pressure/temperature diagram below.
Wetted material	PVC, PVDF
Wetted seals	Viton-FDA
Adaption to process pipe	Ø 32 mm, 50 mm, 63 mm (DN25, DN40, DN50)
Pressure domain	According to PED 97/23/EC, Article 1, Section 2.2: "Pressure" means pressure relative to atmospheric pressure, i.e. gauge pressure. As a consequence, vacuum is designated by a negative value.

Pressure/temperature diagram



Product key InFlow 751

InFlow 751:	Material		
	PVDF:	PVDF polymer (polyvinylidenefluoride)	
	PVC:	PVC polymer (polyvinylchloride)	
	Pipe diameter		
	d32DN25:	Pipe diameter outside 32 mm (1.26"), nominal size 25 mm (0.98")	
	d50DN40:	Pipe diameter outside 50 mm (1.97"), nominal size 40 mm (1.58")	
	d63DN50:	Pipe diameter outside 63 mm (2.48"), nominal size 50 mm (1.97")	
	Interface electrode/sensor		
	Pg 13.5:	pH electrodes, DO/O ₂ and conductivity sensors with 12 mm (0.47") diameter and a length [a] of 120 mm (4.72")	
	NPT 1"	pH electrode InPro® 4500 VP or other sensors	
NPT ¾"	Conductivity sensors		
Examples: InFlow 751	PVDF	d32Dn25	Pg13.5
	PVC	d50DN40	NPT1"

Ordering information InFlow 751

Order No.

InFlow 751 – PVC version

InFlow 751 PVC d32DN25 Pg13.5	52 400 250
InFlow 751 PVC d32DN25 NPT ¾"	52 400 256
InFlow 751 PVC d50DN40 Pg13.5	52 400 251
InFlow 751 PVC d50DN40 NPT ¾"	52 400 257
InFlow 751 PVC d50DN40 NPT 1"	52 400 644
InFlow 751 PVC d63DN50 Pg13.5	52 400 252
InFlow 751 PVC d63DN50 NPT ¾"	52 400 258
InFlow 751 PVC d63DN50 NPT 1"	52 400 645

InFlow 751 – PVDF version

InFlow 751 PVDF d32DN25 Pg13.5	52 400 253
InFlow 751 PVDF d32DN25 NPT ¾"	52 400 259
InFlow 751 PVDF d50DN40 Pg13.5	52 400 254
InFlow 751 PVDF d50DN40 NPT ¾"	52 400 260
InFlow 751 PVDF d50DN40 NPT 1"	52 400 646
InFlow 751 PVDF d63DN50 Pg13.5	52 400 255
InFlow 751 PVDF d63DN50 NPT 1"	52 400 647

Spare parts**InFlow 751, PVC**

Spare parts set InFlow 751 PVC d=32	52 400 653
Spare parts set InFlow 751 PVC d=50	52 400 654

InFlow 751, PVDF

Spare parts set InFlow 751 PVDF d=63	52 400 658
--------------------------------------	------------

Further accessories on request at your local METTLER TOLEDO representative.

Together with housings and electrodes/sensors METTLER TOLEDO offers a wide range of transmitters and EasyClean automated cleaning and calibration systems. Highly automated and application-specific measuring systems to meet your needs can be provided. For further information see www.mt.com.

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Management System
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ISO 9001 / ISO 14001



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