

## 4.1 Hardware - Process equipment from experts

SI ANALYTICS holders and accessories - System solutions for all Applications

During the development and the production of these high quality holders and their control systems, we are utilizing around 80 years of experience in liquid analytics. The continuous exchange with our customers has shown us that, generally, every application has its own requirements. The safe measurement of pH, ORP, conductivity and oxygen values as well as the temperature in the process demands custom solutions. This applies to all industrial branches, be it water treatment, food, biotech or chemical and pharmaceutical production.

Therefore, our versatile product lineup offers a wide variety of components that can be combined to solve your individual application. These system solutions allow for the optimal positioning of the sensor in the solution to be measured; even under the most harsh conditions. They significantly increase the reliability of the measurement and the life of the sensor.



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## 4.2 CHEMfit

CHEMfit is a product line for the static installation of sensors with Pg 13.5 threads, a length of 120 mm and a diameter of 12 mm. Equipped with multiple types of process connections, such as Ingold DN25 (CHEMfit 310) , TriClamp (CHEMfit 311), Varivent or NEUMO Biocontrol (CHEMfit 312) NPT threads, the CHEMfit series is a universal solution.

For installation in the side of a vessel or vertical pipe run, this series is also available in a 15° model (CHEMfit 315). CHEMfit was developed following hygienic criteria for the requirements of the food and pharmaceutical industries.

Furthermore, the user can select from a series of different seal materials (including EPDM with FDA and USP VI approval). The metal model is made from stainless steel AISI 316L with a selection of surfaces finer than 0.8  $\mu\text{Ra}$  or 0.4  $\mu\text{Ra}$ . CHEMfit is designed for up to 10 bar of pressure and 140 °C.

CHEMfit 310 and lateral cut



CHEMfit 310



CHEMfit 311



CHEMfit 312BCT



CHEMfit 312VARN



CHEMfit 315VARN



CHEMfit 315



CHEMfit 340N34



# CHEMfit 310

Type configurator:

CHEMfit 310	
Code	Material (wetted parts)
448	Stainless Steel 1.4404 / 316L Ra0.8
444	Stainless Steel 1.4404 / 316L Ra0.4
XXX	special
↓	Code Sealing Material (wetted sealings)
	E EPDM/FDA/USP VI
	V FPM (Viton®)
	X special
↓	Code Sensor Type
	120 120 mm PG 13.5 Ø 12 mm
	XXX special
↓	Code Process Connection
	IN25 G1 1/4" (DN25) O-ring-position 25 mm
	XXXX special
↓	Code Immersion length
	070 70 mm under process connection
	XXX special
↓	Code Protection cage
	0 without
	1 with protection cage
	X special
310	- - - - - <Type No.

**CHEMfit 310**  
- example of installation



CHEMfit

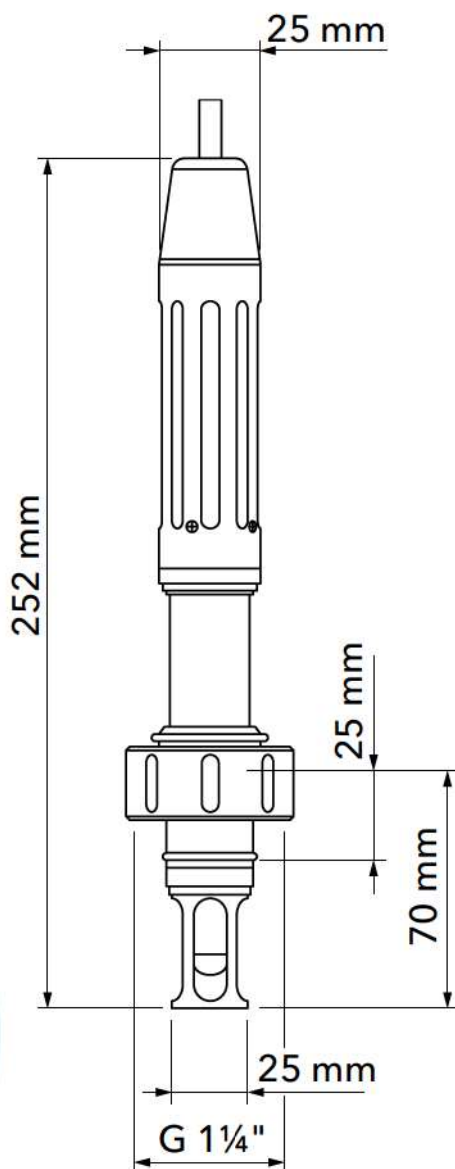
## Spare parts and accessories

Type No.	Order No.	Description
MZ PC 3XX	285063750	Protection cap CHEMfit
MZ SSC 310 E	285063640	Sealing EPDM / FDA USP IV
MZ SSC 310 V	285063650	Sealing FPM (Viton®)
MZ WIS 40 ST 44	285063720	Safety weld-in socket straight 40mm 1.4435/316L
MZ WIS 40 IC 44	285063730	Safety weld-in socket inclined 40mm 1.4435/316L

## Certificates

Type No.	Order No.	Description
MZ CERT 3XX 2.2	285063620	Certificate EN10204-2.2 for surface-finishing (wetted parts)
MZ CERT 3XX 3.1B	285063630	Certificate EN10204-3.1B for material (wetted parts)

CHEMfit 310



# CHEMfit 311

Type configurator:

## CHEMfit 311

### Code Material (wetted parts)

448	Stainless Steel 1.4404 / 316L Ra0.8
444	Stainless Steel 1.4404 / 316L Ra0.4
XXX	special

### Code Sealing Material (wetted sealings)

E	EPDM/FDA/USP VI
V	FPM (Viton®)
X	special

### Code Sensor Type

120	120 mm PG 13.5 Ø 12 mm
XXX	special

### Code Process Connection

TC15	G1 1/4" (DN25) O-ring-position 25 mm
TC20	TriClamp 2.0 (OD Ø 64 mm)
XXXX	special

### Code Immersion length

045	45 mm under process connection
080	80 mm under process connection
XXX	special

### Code Protection cage

0	without
1	with protection cage
X	special

311- - - - - < Type No.



CHEMfit 311TC

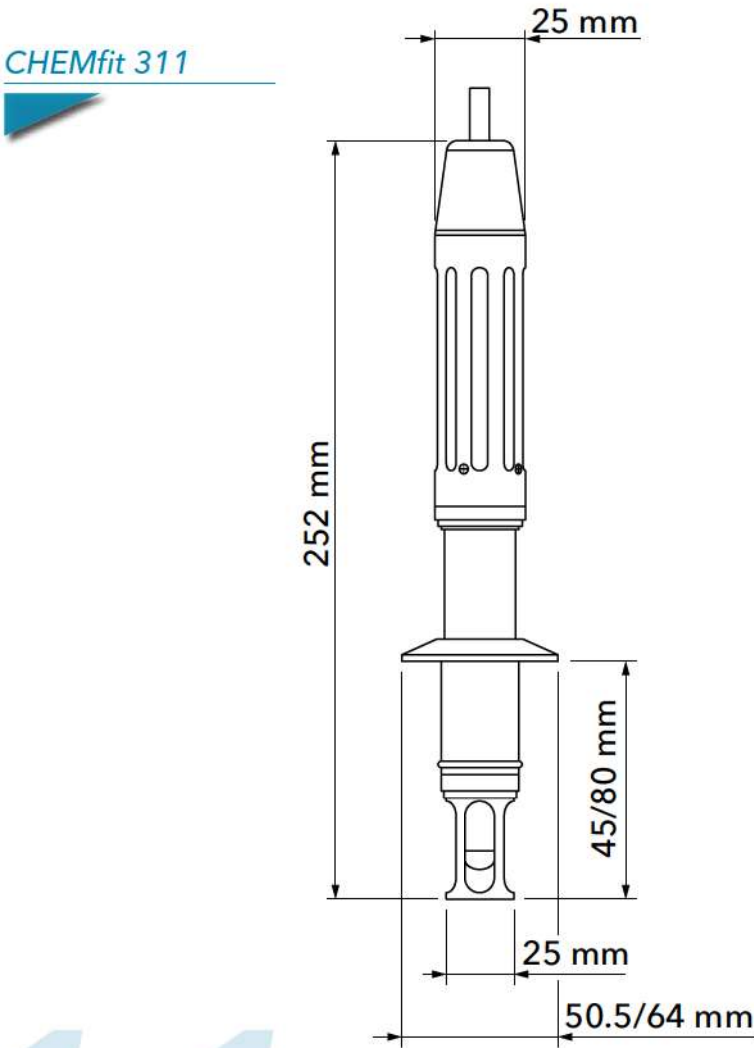
CHEMfit

# Spare parts and accessories

Type No.	Order No.	Description
MZ PC 3XX	285063750	Protection cap CHEMfit
MZ SSC 31X V	285063770	Sealing FPM (Viton®)

# Certificates

Type No.	Order No.	Description
MZ CERT 3XX 2.2	285063620	Certificate EN10204-2.2 for surface-finishing (wetted parts)
MZ CERT 3XX 3.1B	285063630	Certificate EN10204-3.1B for material (wetted parts)



311

# CHEMfit 312

Type configurator:

## CHEMfit 312

### Code Material (wetted parts)

448	Stainless Steel 1.4404 / 316L Ra0.8
444	Stainless Steel 1.4404 / 316L Ra0.4
XXX	special

### Code Sealing Material (wetted sealings)

E	EPDM/FDA/USP VI
V	FPM (Viton®)
X	special

### Code Sensor Type

120	120 mm PG 13.5 Ø 12 mm
XXX	special

### Code Process Connection

VARN	G1 1/4" (DN25) O-ring-position 25 mm
BCT5	NEUMO BioControl D50
XXXX	special

### Code Immersion length

040	40 mm under process connection
XXX	special

### Code Protection cage

0	without
1	with protection cage
X	special

312- - - - - < Type No.

CHEMfit 312



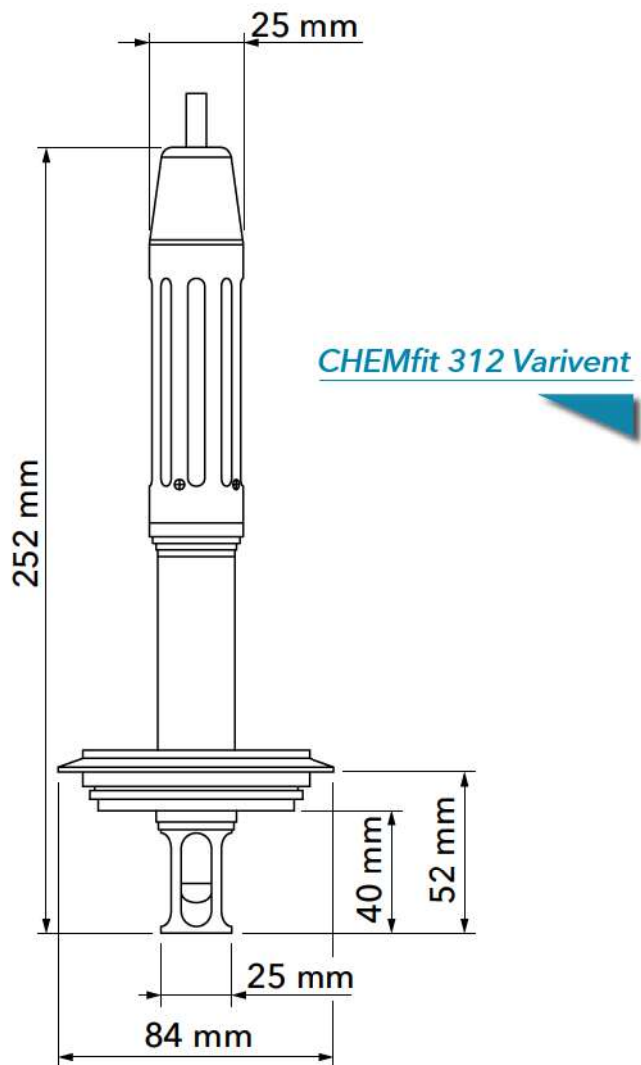
CHEMfit

## Spare parts and accessories

Type No.	Order No.	Description
MZ PC 3XX	285063750	Protection cap CHEMfit
MZ SSC 31X E	285063760	Sealing EPDM / FDA USP IV
MZ SSC 31X V	285063770	Sealing FPM (Viton®)

## Certificates

Type No.	Order No.	Description
MZ CERT 3XX 2.2	285063620	Certificate EN10204-2.2 for surface-finishing (wetted parts)
MZ CERT 3XX 3.1B	285063630	Certificate EN10204-3.1B for material (wetted parts)



# CHEMfit 315

Type configurator:

## CHEMfit 315

Code	Material (wetted parts)
448	Stainless Steel 1.4404 / 316L Ra0.8
444	Stainless Steel 1.4404 / 316L Ra0.4
XXX	special

Code	Sealing Material (wetted sealings)
E	EPDM/FDA/USP VI
V	FPM (Viton®)
X	special

Code	Sensor Type
120	120 mm PG 13.5 Ø 12 mm
XXX	special

Code	Process Connection
VARN	G1 1/4" (DN25) O-ring-position 25 mm
TC15	TriClamp 1-1,5" (OD Ø 50.5 mm)
TC20	TriClamp 2" (OD Ø 64 mm)
BCT5	NEUMO BioControl 50
XXXX	special

Code	Immersion length
034	34 mm under process connection
XXX	special

Code	Protection cage
0	without
X	special

315- - - - - < Type No.

CHEMfit 315



CHEMfit

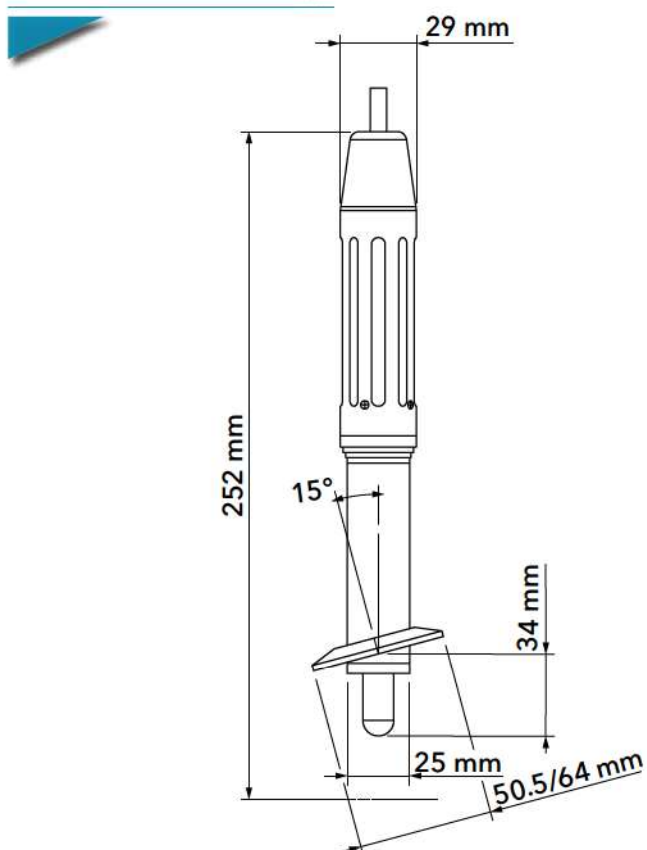
## Spare parts and accessories

Type No.	Order No.	Description
MZ PC 3XX	285063750	Protection cap CHEMfit
MZ SSC 31X E	285063760	Sealing EPDM / FDA USP IV
MZ SSC 31X V	285063770	Sealing FPM (Viton®)

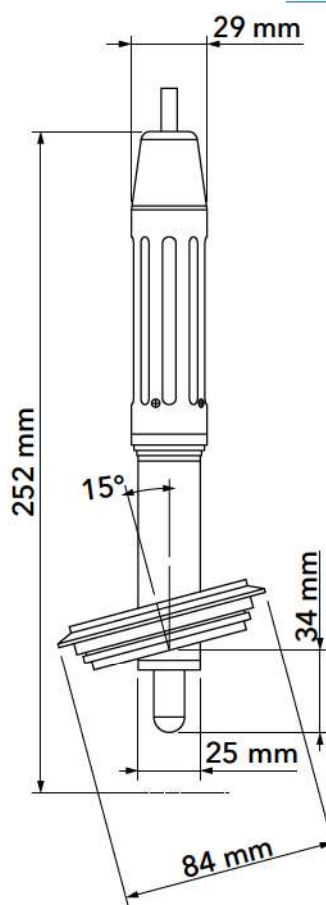
## Certificates

Type No.	Order No.	Description
MZ CERT 3XX 2.2	285063620	Certificate EN10204-2.2 for surface-finishing (wetted parts)
MZ CERT 3XX 3.1B	285063630	Certificate EN10204-3.1B for material (wetted parts)

*CHEMfit 315 TriClamp*



*CHEMfit 315 Varivent*



# CHEMfit 340

Type configurator:

## CHEMfit 340

Code Material (wetted parts)

04 Stainless Steel 1.4404 / 316L Ra0.8

PP PP

PV PVDF

XX special

Code Process Connection

N10 NPT 1"

N34 NPT 3/4"

XXX special

Code Sealing Material (wetted sealings)

E EPDM/FDA/USP VI

V FPM (Viton®)

K FFKM (Kalrez®)

X special

340-

-

-

-

< Type No.

## CHEMfit 340

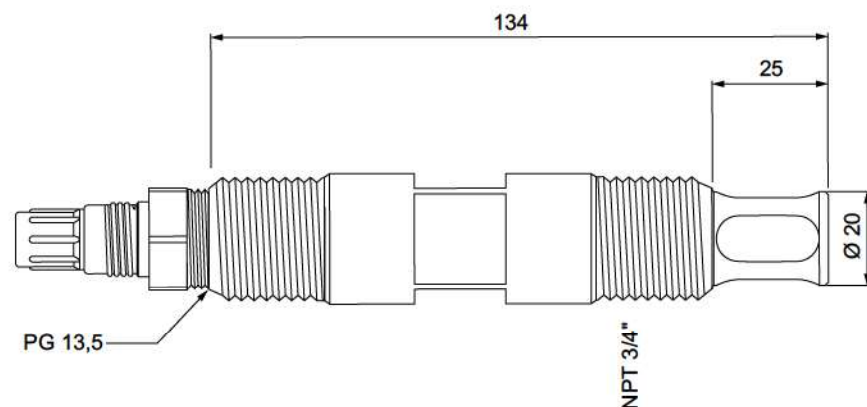


## Spare parts and accessories

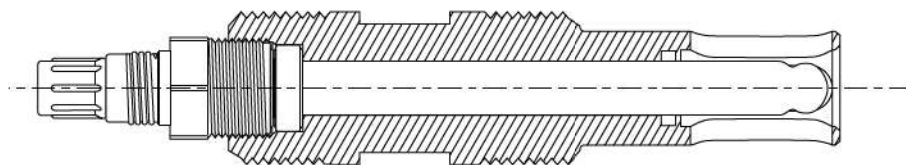
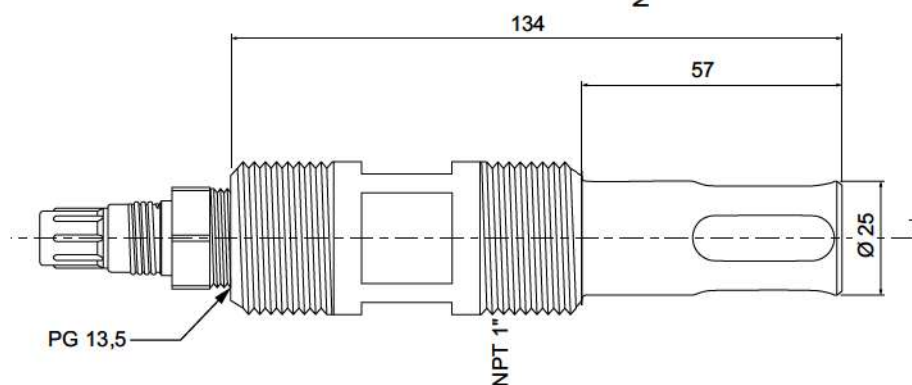
Type No.	Order No.	Description
MZ SSC 31X E	285063760	Sealing EPDM / FDA USP IV
MZ SSC 31X V	285063770	Sealing FPM (Viton®)

## Certificates

Type No.	Order No.	Description
MZ CERT 3XX 3.1B	285063630	Certificate EN10204-3.1B for material (wetted parts)



CHEMfit 340



## 4.3 CHEMdip

CHEMdip holders are for fixed submersion of sensors with Pg 13.5 threads in tanks, pipes, or sump pits, or open channels. CHEMdip 910 and 915 are available in stainless steel AISI 316L/1.4404 (or Hastelloy®) and CHEMdip 920 and 925 are available in PP or PVDF. CHEMdip 910 and 920 are equipped with a DN50 process connection (DN50/2" ANSI, DN80/3" ANSI ) for low maintenance electrodes with a length of 120 mm and a diameter of 12 mm. Models 915/925 are equipped with a DN80 process connection.

The integrated orbital sensor cleaning system is a special feature which makes an external cleaning system unnecessary. This holder group offers the user simple installation and removal of the sensor. CHEMdip fittings are available with an immersion depth of 500 to 2000 mm.

Chemdip	910	915	920	925
Stainless steel	■	■		
Plastic			■	■
DN50	■		■	
DN80		■		■

CHEMdip 910



CHEMdip



[CHEMdip 915](#)



[CHEMdip 920-D50](#)



[CHEMdip 925 D80](#)

# CHEMdip 910

Type configurator:

CHEMdip 910	
Code	Material (wetted parts)
44	Stainless Steel 1.4404 / 316L
XX	special
Code Sealing Material (wetted sealings)	
E	EPDM
V	FPM (Viton®)
X	special
Code Sensor Type	
120	120 mm PG 13.5 gel-filled
XXX	special
Code Process Connection	
D50	Flange DN50 PN16
A20	Flange ANSI 2" 150 lbs
XXX	special
Code Immersion length	
05	0.5m
10	1m
15	1.5m
20	2m
25	2.5m
XXX	special
Code Cleaning	
NC	without
SC	with integrated spray nozzle
910	- - - - - < Type No.

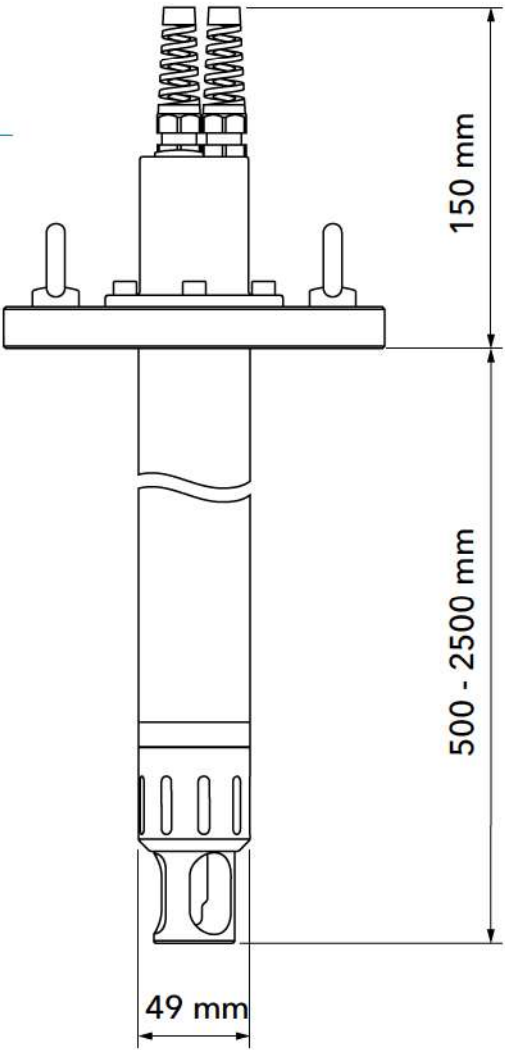
# Spare parts and accessories

Type No.	Order No.	Description
MZ SSC 910 E	285077560	Sealing Set CHEMdip 910 EPDM
MZ SSC 910 V	285077600	Sealing Set CHEMdip 910 FPM (Viton®)

CHEMdip 910 stainless steel



CHEMdip 910



Armatures

ip 910

# CHEMdip 920

Type configurator:

CHEMdip 920	
Code Material (wetted parts)	
PP	PP
PV	PVDF
XX	special
Code Sealing Material (wetted sealings)	
E	EPDM
V	FPM (Viton®)
X	special
Code Sensor Type	
120	120 mm PG 13.5 gel-filled
XXX	special
Code Process Connection	
D50	Flange DN50 PN16
A20	Flange ANSI 2" 150 lbs
SUH	with Suspended Holder
XXX	special
Code Immersion length	
05	0.5 m
10	1 m
15	1.5 m
20	2 m
25	2.5 m
XX	special
Code Cleaning	
NC	without
SC	with integrated spray nozzle
920	- - - - - < Type No.

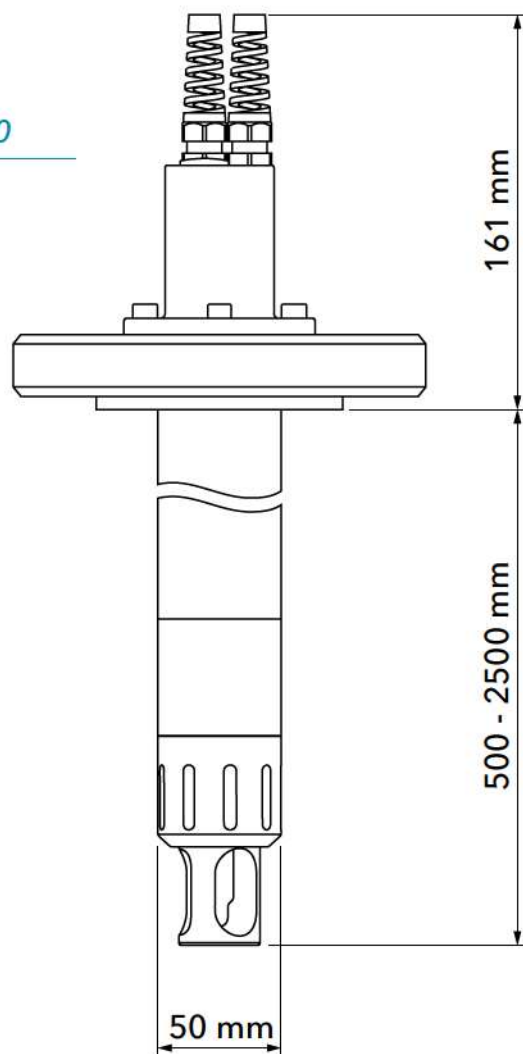
## Spare parts and accessories

Type No.	Order No.	Description
MZ SSC 920 E	285077570	Sealing Set CHEMdip 920 EPDM
MZ SSC 920 V	285077610	Sealing Set CHEMdip 920 FPM (Viton®)

CHEMdip 920



CHEMdip 920



Armatures

ip 920

# CHEMdip 915

Type configurator:

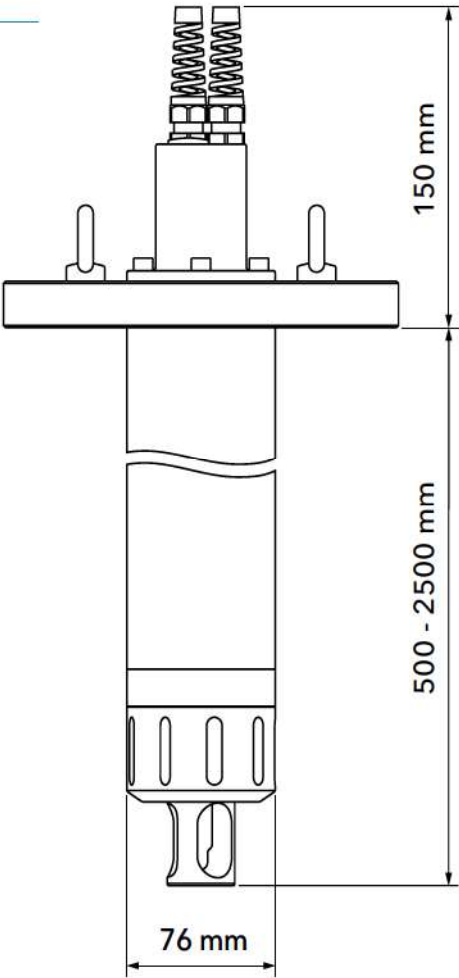
CHEMdip 915	
Code	Material (wetted parts)
44	Stainless Steel 1.4404 / 316L
XX	special
Code	Sealing Material (wetted sealings)
E	EPDM
V	FPM (Viton®)
X	special
Code	Sensor Type
120G	120 mm PG 13.5 gel-filled
120L	120 mm PG 13.5 liquid-filled
XXXX	special
Code	Process Connection
D80	Flange DN80 PN16
A30	Flange ANSI 3" 150 lbs
XXX	special
Code	Immersion length
05	0.5 m
10	1 m
15	1.5 m
20	2 m
25	2.5 m
XXX	special
Code	Cleaning
NC	without
SC	with integrated spray cleaning
915	- - - - - < Type No.

# Spare parts and accessories

Type No.	Order No.	Description
MZ SSC 915/925 E	285077590	Sealing Set CHEMdip 915/925 EPDM
MZ SSC 915/925 V	285077630	Sealing Set CHEMdip 915/925 FPM (Viton®)

CHEMdip 915

CHEMdip 915



Armatures

ip 915

# CHEMdip 925

Type configurator:

## CHEMdip 925

### Code Material (wetted parts)

PP | PP

PV | PVDF

XX | special

### Code Sealing Material (wetted sealings)

E | EPDM

V | FPM (Viton®)

X | special

### Code Sensor Type

120G | 120 mm PG 13.5 gel-filled

120L | 120 mm PG 13.5 liquid-filled

XXXX | special

### Code Process Connection

D80 | Flange DN80 PN16

A30 | Flange ANSI 3" 150 lbs

SUH | with Suspended Holder

XXX | special

### Code Immersion length

05 | 0.5 m

10 | 1 m

15 | 1.5 m

20 | 2 m

25 | 2.5 m

XX | special

### Code Cleaning

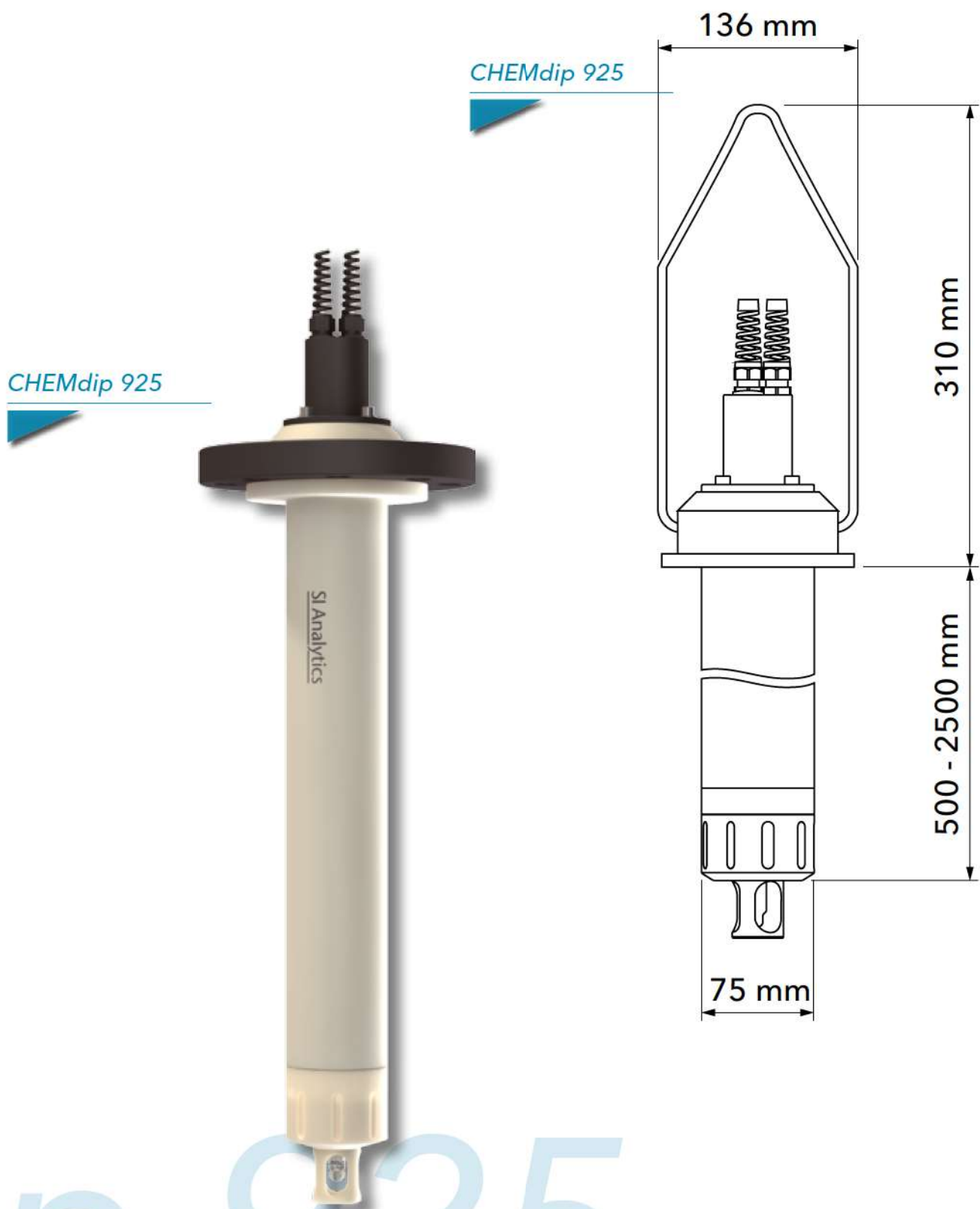
NC | without

SC | with integrated spray nozzle

925 - - - - - < Type No.

# Spare parts and accessories

Type No.	Order No.	Description
MZ SSC 915/925 E	285077590	Sealing Set CHEMdip 915/925 EPDM
MZ SSC 915/925 V	285077630	Sealing Set CHEMdip 915/925 FPM



## 4.4 CHEMtrac

**Manual and automatic retractable holder** for the installation of sensors with a diameter of 12 mm and Pg 13.5 installation thread in tanks or pipes. The automatic version is the meter of choice, where a controlled sensor cleaning and/or use in EX areas is required. Suitable for all types of sensors with a diameter of 12 mm as well as a length of 225 or 325 mm as a low maintenance model or as a liquid electrolyte model with lengths of 280 or 380.

A plug and play installation is possible with the automatic models by means of a color and size-coded connection system. During the removal of the sensor, the system automatically guards against insertion into the process. Manual operation is easily possible even against 12 bar (model M). Automatic locking of the respective holder position ensures safe handling.

You can select from different materials, such as stainless steel AISI 316L/1.4404, Hastelloy®, PP, PVDF or PEEK and can choose from different seal materials (e.g. EPDM and FPM (Viton®) or FFKM (Kalrez®)). There are also different process connections to choose from (DN32, DN40, DN50, ANSI, NPT, Triclamp, Ingold DN25, Varivent, Neumo).

*CHEMtrac 810 M*



*CHEMtrac 810  
lateral cut*



# CHEMtrac



CHEMtrac 830



CHEMtrac 821M

CHEMtrac	810(M)	811(M)	820(M)	821(M)	830(M)	840M
Stainless steel	■	■			■	■
Plastic			■	■		
For hygienic processes					■	
DIN and ANSI connection	■	■	■	■		■
NPT Connection	■		■			■
Ingold DN25, Varivent, Triclamp, Neumo connection					■	
100mm immersion length	■		■		■	
200mm immersion length		■		■		
300/700mm immersion length						■
For low-maint. 120mm sensors						■
For low-maint. 225mm and 280mm liquid electrolyte sensors	■		■		■	
For 325mm low-maint. and 380mm liquid electrolyte sensors		■		■		

# CHEMtrac 810M

Type configurator:

Manual Retractable Holder CHEMtrac 810 M	
Code	Material (wetted parts)
44	Stainless Steel 1.4404 / 316L
HC	Alloy C22 2.4602
XX	special
Code	Sealing Material (wetted sealings)
E	EPDM
V	FPM (Viton®)
K	FFKM (Kalrez®)
X	special
Code	Sensor
225	225 mm PG 13.5 gel-filled
280	280 mm PG 13.5 liquid-filled
XXX	special
Code	Process Connection
D32	Flange DN32 PN16
D40	Flange DN40 PN16
D50	Flange DN50 PN16
A14	Flange ANSI 1 1/4" 150 lbs
A12	Flange ANSI 1 1/2" 150 lbs
A20	Flange ANSI 2" 150 lbs
N14	NPT M 1 1/4"
T20	Tri Clamp 2"
XXX	special
Code	Cleaning Connection
G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special
Code	Position switch
00	without
XX	special

810M- - - - - < Type No.

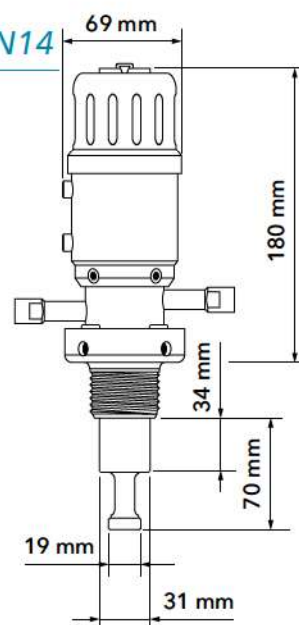
CHEMtrac 810M



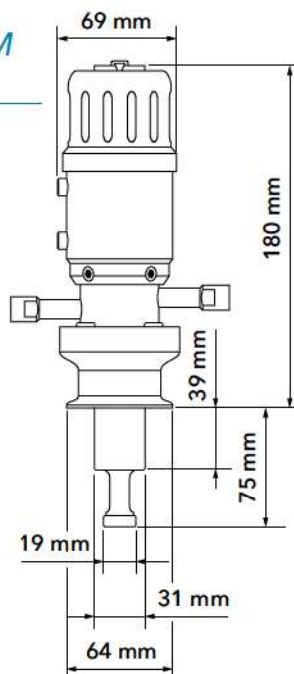
## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 43	285063580	Set blind plug G1/8" 1.4301/316 for cleaning chamber
MZ DUC 8XX 225/335 PN	285063520	Manual Drive Unit - sensor 225/325
MZ DUC 8XX 280/380 PN	285063530	Manual Drive Unit - sensor 280/380
MZ IRC 810 44	285063480	Insertion rod CHEMtrac 810 1.4404 / 316L
MZ IRC 810 HC	285063500	Insertion rod CHEMtrac 810 2.4602 / Alloy C22
MZ SSC 810/820 E	285063660	Sealing set CHEMtrac 810/820 EPDM
MZ SSC 810/820 K	285063700	Sealing set CHEMtrac 810/820 FFKM (Kalrez®)
MZ SSC 810/820 V	285063680	Sealing set CHEMtrac 810/820 FPM (Viton®)

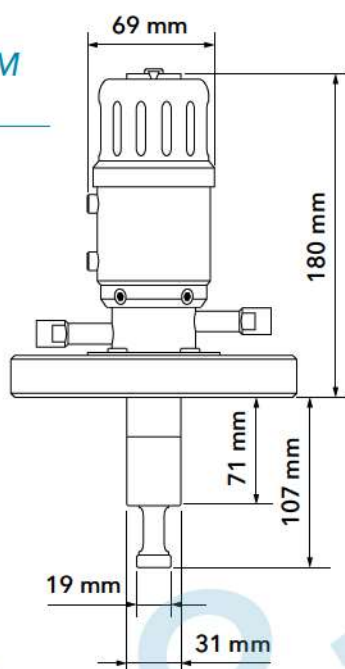
**CHEMtrac 810M N14**



**CHEMtrac 810M TriClamp T20**



**CHEMtrac 810M with flange**



# CHEMtrac 811M

Type configurator:

## pH-Retractable Holder CHEMtrac 811 M

### Code Material (wetted parts)

44	Stainless Steel 1.4404 / 316L
HC	Alloy C22 2.4602
XX	special

### Code Sealing Material (wetted sealings)

E	EPDM
V	FPM (Viton®)
K	FFKM (Kalrez®)
X	special

### Code Sensor

325	325 mm PG 13.5 gel-filled
380	380 mm PG 13.5 liquid-filled
XXX	special

### Code Process Connection

D40	Flange DN40
D50	Flange DN50
A12	Flange ANSI 1 1/2"
A20	Flange ANSI 2"
XXX	special

### Code Cleaning Connection

G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special

### Code Position switch

00	without
XX	special

811M- - - - - < Type No.

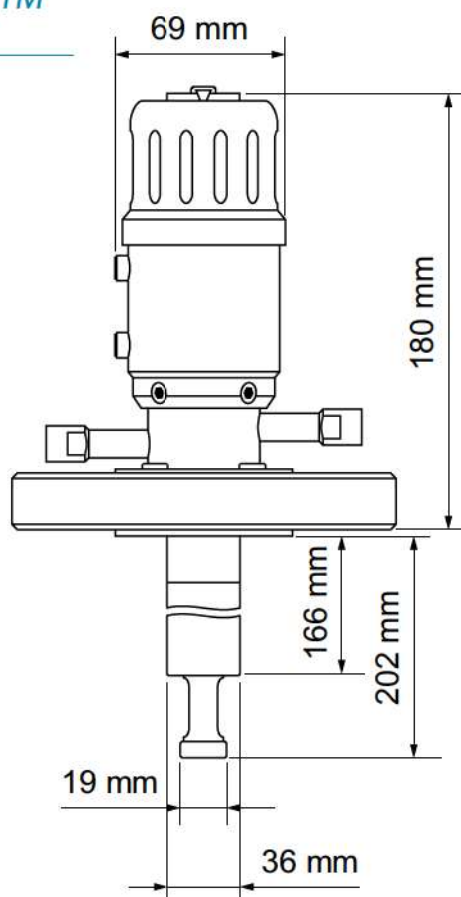
CHEMtrac 811M



## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 43	285063580	Set blind plug G1/8" 1.4301/316 for cleaning chamber
MZ DUC 8XXM 225/335	285077540	Manual Drive Unit - sensor 225/325
MZ DUC 8XXM 280/380	285077550	Manual Drive Unit - sensor 280/380
MZ IRC 811 44	285063490	Insertion rod CHEMtrac 811 1.4404 / 316L
MZ IRC 811 HC	285063510	Insertion rod CHEMtrac 811 2.4602 / Alloy C22
MZ SSC 811/821 E	285063670	Sealing Set CHEMtrac 811/821 EPDM
MZ SSC 811/821 K	285063710	Sealing Set CHEMtrac 811/821 FFKM (Kalrez®)
MZ SSC 811/821 V	285063690	Sealing Set CHEMtrac 811/821 FPM (Viton®)

*CHEMtrac 811M  
with flange*



# CHEMtrac 820M

Type configurator:

Manual Retractable Holder CHEMtrac 820 M	
Code	Material (wetted parts)
PP	PP
PV	PVDF
PK	PEEK
XX	Special
Code	Sealing Material (wetted sealings)
E	EPDM
V	FPM (Viton®)
K	FFKM (Kalrez®)
X	Special
Code	Sensor
225	225 mm PG 13.5 gel-filled
280	280 mm PG 13.5 liquid-filled
XXX	Special
Code	Process Connection
D50	Flange DN50
A20	Flange ANSI 2"
N14	NPT M 1 1/4"
XXX	Special
Code	Cleaning Connection
G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	Special
Code	Position switch
00	without
XX	Special
820M- - - - - < Type No.	

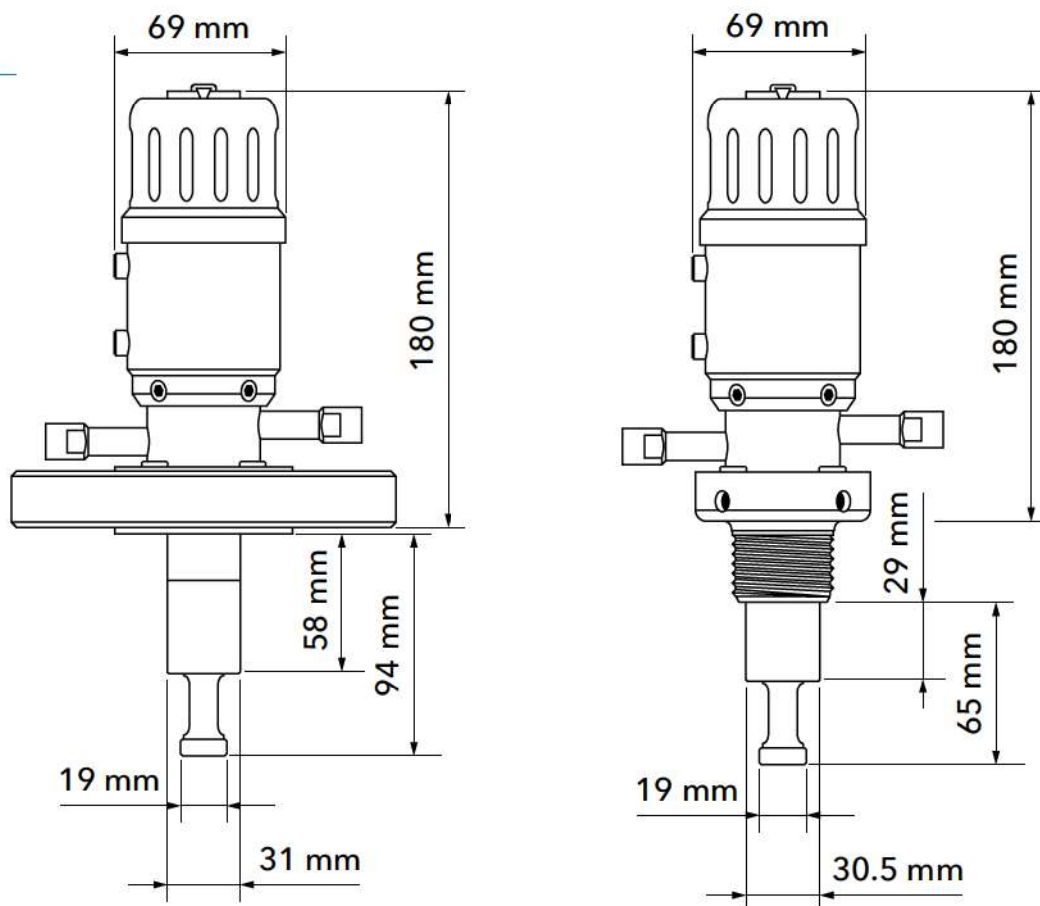
CHEMtrac 820M



## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 PV	285063570	Set blind plug G1/8" PVDF for cleaning chamber
MZ DUC 8XX 225/335 PN	285063520	Manual Drive Unit - sensor 225/325
MZ DUC 8XX 280/380 PN	285063530	Manual Drive Unit - sensor 280/380
MZ IRC 820 PP	285063430	Insertion rod CHEMtrac 820 PP
MZ IRC 820 PV	285063440	Insertion rod CHEMtrac 820 PVDF
MZ IRC 820 PK	285063460	Insertion rod CHEMtrac 820 PEEK
MZ SSC 810/820 E	285063660	Sealing Set CHEMtrac 810/820 EPDM
MZ SSC 810/820 V	285063680	Sealing Set CHEMtrac 810/820 FPM (Viton®)
MZ SSC 810/820 K	285063700	Sealing Set CHEMtrac 810/820 FFKM (Kalrez®)

CHEMtrac 820M



Armatures

ac 820M

# CHEMtrac 821M

Type configurator:

## Manual Retractable Holder CHEMtrac 821 M

### Code Material (wetted parts)

PV	PVDF
PK	PEEK
XX	special

### Code Sealing Material (wetted sealings)

E	EPDM
V	FPM (Viton®)
K	FFKM (Kalrez®)
X	special

### Code Sensor

325	325 mm PG 13.5 gel-filled
380	380 mm PG 13.5 liquid-filled
XXX	special

### Code Process Connection

D50	Flange DN50
A20	Flange ANSI 2"
XXX	Sonderausführung

### Code Cleaning Connection

G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special

### Code Position switch

00	without
XX	special

821M- - - - - < Type No.

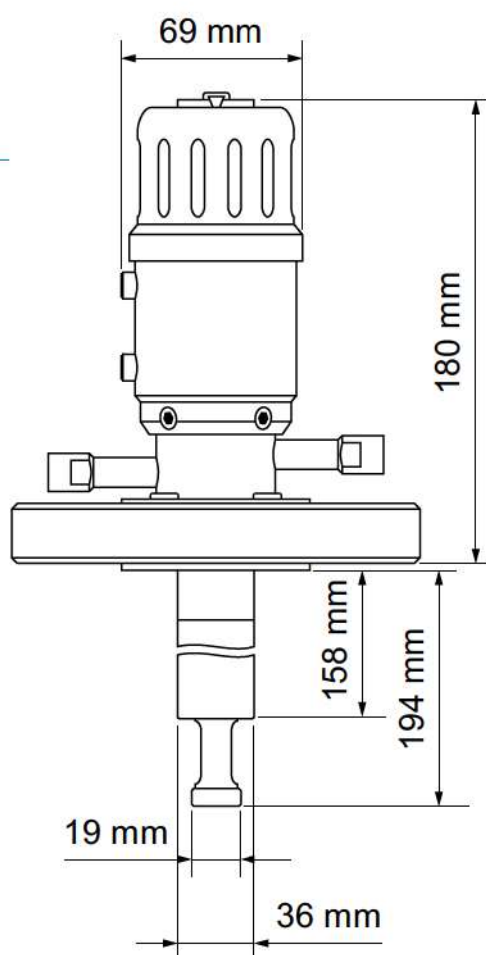
CHEMtrac 821M



## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 PV	285063570	Set blind plug G1/8" PVDF for cleaning chamber
MZ IRC 821 PV	285063450	Insertion rod CHEMtrac 821 PVDF/Alloy C22
MZ IRC 821 PK	285063470	Insertion rod CHEMtrac 821 PEEK
MZ SSC 811/821 E	285063670	Sealing Set CHEMtrac 811/821 EPDM
MZ SSC 811/821 V	285063690	Sealing Set CHEMtrac 811/821 FPM
MZ SSC 811/821 K	285063710	Sealing Set CHEMtrac 811/821 FFKM (Kalrez®)

*CHEMtrac 821M  
with flange*



# CHEMtrac 830M

Type configurator:

## Manual Retractable Holder CHEMtrac 830 hygenic

Code	Material (wetted parts)
44	Stainless Steel 1.4404 / 316L
XX	special

Code	Sealing Material (wetted sealings)
E	EPDM/FDA
V	FPM (Viton®)
X	special

Code	Sensor
225	225 mm PG 13.5 gel-filled
280	280 mm PG 13.5 liquid-filled
XXX	special

Code	Process Connection
I28	Ingold DN25 (G1 1/4") O-Ring-Position 28 mm
VAN	Varivent N DN40-125
T15	TriClamp 1.5" (OD Ø 50.5 mm)
T20	TriClamp 2" (OD Ø 64 mm)
BT5	NEUMO BioControl 50
M50	DIN 11851 DN50
XXX	special

Code	Cleaning Connection
G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special

Code	Position switch
00	without
XX	special

830M- - - - - < Type No.

CHEMtrac 830M

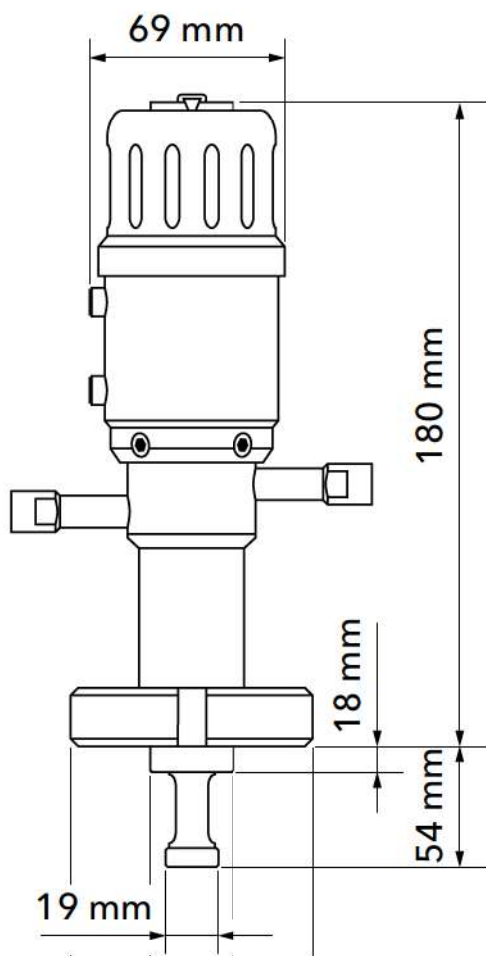


CHEMtrac

## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 43	285063580	Set Blind Plug G1/81.4301/316 for clean chamber
MZ DUC 8XXM 225/335	285077540	Manual Drive Unit - sensor 225/325
MZ DUC 8XXM 280/380	285077550	Manual Drive Unit - sensor 280/380
MZ IRC 810 44	285063480	Insertion rod CHEMtrac 830 1.4404 / 316L
MZ SSC 830 E I	285077640	Sealing Set CHEMtrac 830 EPDM/FDA (IN28 only)
MZ SSC 830 E	285077660	Sealing Set CHEMtrac 830 EPDM/FDA (all other types)
MZ SSC 830 V I	285077670	Sealing Set CHEMtrac 830 FPM (Ingold only)
MZ SSC 830 V	285077690	Sealing Set CHEMtrac 830 FPM (all other types)

CHEMtrac 830M



# CHEMtrac 840M

Type configurator:

manual retractable holder with ball valve	
Code	Material (wetted parts)
44	Stainless Steel 1.4404 / 316L
XXXX	special
Code	Sealing Material (wetted sealings)
E	EPDM
V	FPM (Viton®)
F	FFKM (Kalrez®)
XXX	special
Code	Immersion length (nominal)
3	300 mm
7	700 mm
XX	special
Code	Sensor Type
120	120mm - Sensor PG13,5
XXX	Special Option
Code	Process Connection
FD32O	Flange DN32 PN16 without ball valve
FD32B	Flange DN32 PN16 with ball valve
FA14O	Flange ANSI 1 1/4" without ball valve
FA14B	Flange ANSI 1 1/4" with ball valve
G14MO	Thread G1 1/4" male without ball valve
G14FB	Thread G1 1/4" female with ball valve
N14MO	Thread NPT1 1/4" male without ball valve
XXXXX	special
Code	Cleaning Connection
G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special
840M -	< Type No.

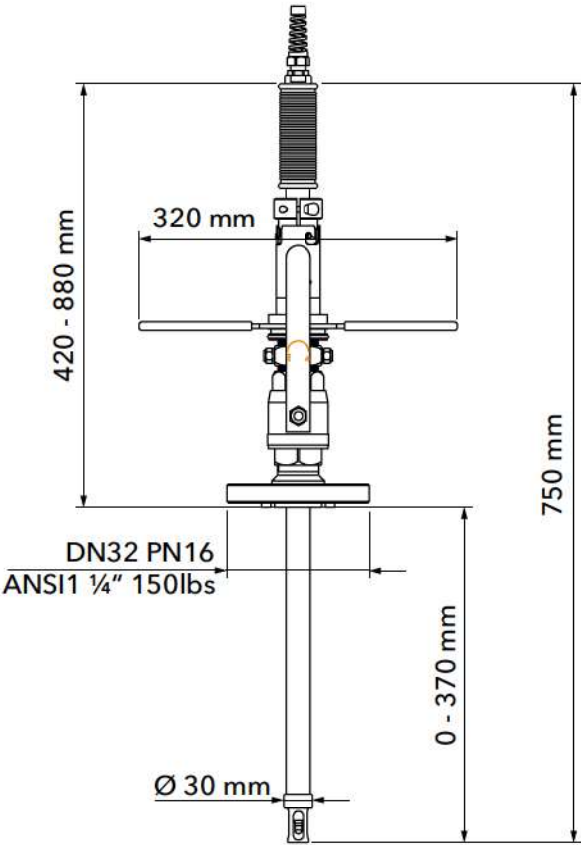
CHEMtrac 840M  
with ball valve  
and flange



# Spare parts and accessories

Type No.	Order No.	Description
MZ SSC 840 E	285077930	Sealing set CHEMtrac840M - EPDM
MZ SSC 840 F	285077950	Sealing set CHEMtrac840M - FFKM
MZ SSC 840 SH	285077960	Sensor holder 840M/PG13.5 1.4404/316L
MZ SSC 840 V	285077940	Sealing set CHEMtrac840M - FPM (Viton®)

CHEMtrac 840M  
with ball valve



# CHEMtrac 810

Type configurator:

## pH-Retractable Holder CHEMtrac 810

### Code Material (wetted parts)

44	Stainless Steel 1.4404 / 316L
HC	Alloy C22 2.4602
XX	special

### Code Sealing Material (wetted sealings)

E	EPDM
V	FPM (Viton®) (Viton®)
K	FFKM (Kalrez®)
X	special

### Code Sensor type

225	225 mm PG 13.5 gel-filled
280	280 mm PG 13.5 liquid-filled
XXX	special

### Code Process Connection

D32	Flange DN32 PN16
D40	Flange DN40 PN16
D50	Flange DN50 PN16
A14	Flange ANSI 1 1/4" 150 lbs
A12	Flange ANSI 1 1/2" 150 lbs
A20	Flange ANSI 2" 150 lbs
N14	NPT M 1 1/4"
T20	Tri Clamp 2"
XXX	special

### Code Cleaning Connection

G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special

### Code Position switch

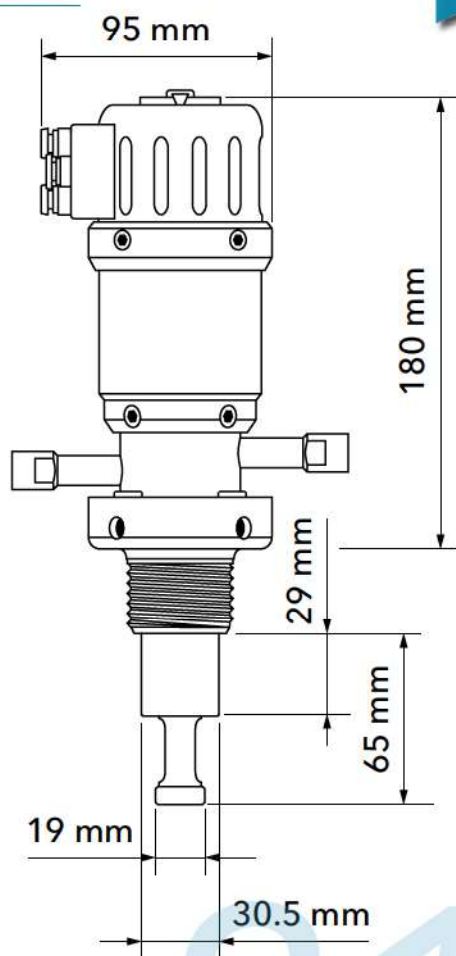
CHEMtrac 810



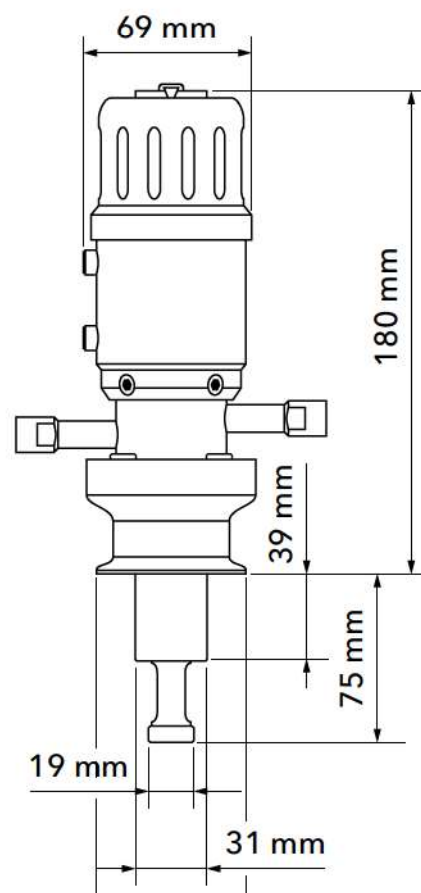
## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 43	285063580	Set blind plug G1/8" 1.4301/316 for cleaning chamber
MZ DUC 8XX 225/335 PN	285063520	Drive Unit - sensor 225/325 pneum. position switch
MZ DUC 8XX 280/380 PN	285063530	Drive Unit - sensor 280/380 pneum. position switch
MZ IRC 810 44	285063480	Insertion rod CHEMtrac 810 1.4404 / 316L
MZ IRC 810 HC	285063500	Insertion rod CHEMtrac 810 2.4602 / Alloy C22
MZ SSC 810/820 E	285063660	Sealing Set CHEMtrac 810/820 EPDM
MZ SSC 810/820 K	285063700	Sealing Set CHEMtrac 810/820 FFKM (Kalrez®)
MZ SSC 810/820 V	285063680	Sealing Set CHEMtrac 810/820 FPM (Viton®)

CHEMtrac 810 N14



CHEMtrac 810 T20



# CHEMtrac 811

Type configurator:

pH-Retractable Holder CHEMtrac 811	
Code	Material (wetted parts)
44	Stainless Steel 1.4404 / 316L
HC	Alloy C22 2.4602
XX	special
Code	Sealing Material (wetted sealings)
E	EPDM
V	FPM (Viton®)
K	FFKM (Kalrez®)
X	special
Code	Sensor
325	325 mm PG 13.5 gel-filled
380	380 mm PG 13.5 liquid-filled
XXX	special
Code	Process Connection
D40	Flange DN40
D50	Flange DN50
A12	Flange ANSI 1 1/2"
A20	Flange ANSI 2"
XXX	special
Code	Cleaning Connection
G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special
Code	Position switch
PN	pneumatic
XX	special

811- - - - - < Type No.

CHEMtrac 811  
with flange

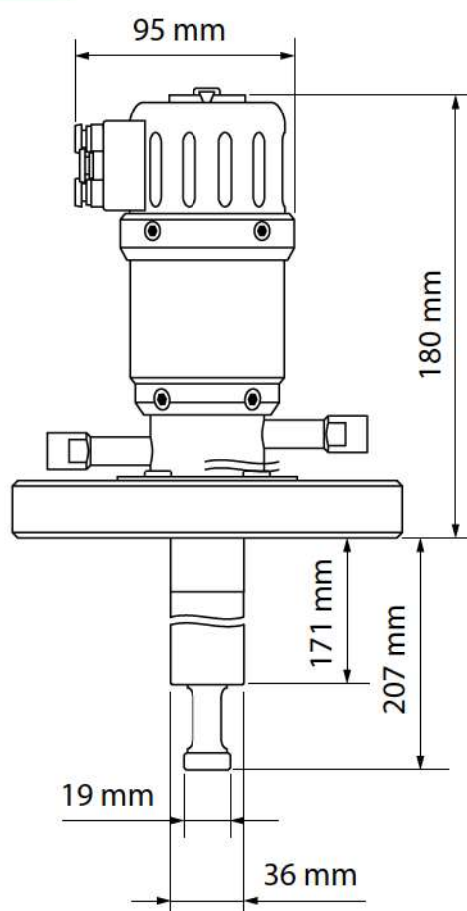


CHEMtrac

## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 43	285063580	Set blind plug G1/8" 1.4301/316 for cleaning chamber
MZ DUC 8XX 225/335 PN	285063520	Drive Unit - sensor 225/325 pneum. position switch
MZ DUC 8XX 280/380 PN	285063530	Drive Unit - sensor 280/380 pneum. position switch
MZ IRC 811 44	285063490	Insertion rod CHEMtrac 811 1.4404 / 316L
MZ IRC 811 HC	285063510	Insertion rod CHEMtrac 811 2.4602 / Alloy C22
MZ SSC 811/821 E	285063670	Sealing Set CHEMtrac 811/821 EPDM
MZ SSC 811/821 K	285063710	Sealing Set CHEMtrac 811/821 FFKM (Kalrez®)
MZ SSC 811/821 V	285063690	Sealing Set CHEMtrac 811/821 FPM (Viton®)

**CHEMtrac 811**  
with flange



trac 811

# CHEMtrac 820

Type configurator:

## pH-Retractable Holder CHEMtrac 820

### Code Material (wetted parts)

PP	PP
PV	PVDF
PK	PEEK
XX	special

### Code Sealing Material (wetted sealings)

E	EPDM
V	FPM (Viton®)
K	FFKM (Kalrez®)
X	special

### Code Sensor

225	225 mm PG 13.5 gel-filled
280	280 mm PG 13.5 liquid-filled
XXX	special

### Code Process Connection

D50	Flange DN50
A20	Flange ANSI 2"
N14	NPT M 1 1/4"
XXX	special

### Code Cleaning Connection

G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special

### Code Position switch

PN	pneumatic
XX	special

820- - - - - < Type No.

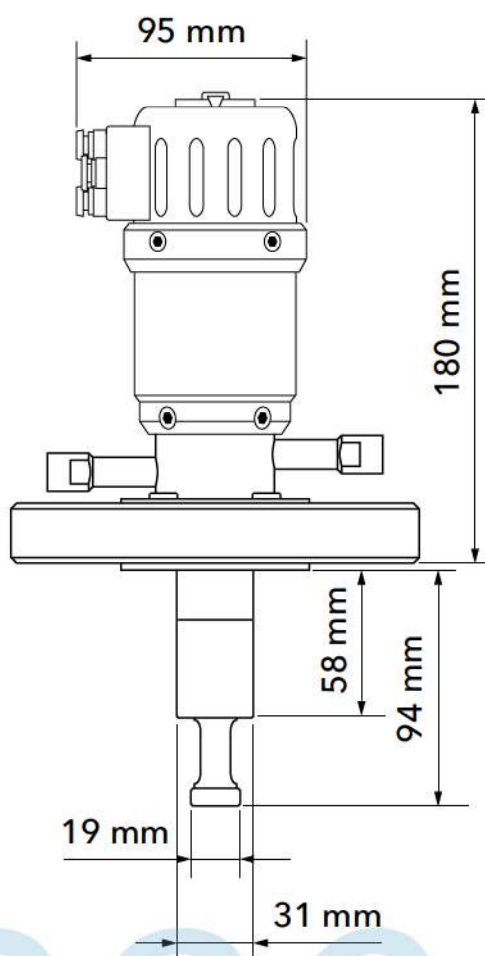
CHEMtrac 820



## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 PV	285063570	Set blind plug G1/8" PVDF for cleaning chamber
MZ DUC 8XX 225/335 PN	285063520	Drive Unit - sensor 225/325 pneum. position switch
MZ DUC 8XX 280/380 PN	285063530	Drive Unit - sensor 280/380 pneum. position switch
MZ IRC 820 PP	285063430	Insertion rod CHEMtrac 820 PP
MZ IRC 820 PV	285063440	Insertion rod CHEMtrac 820 PVDF
MZ IRC 820 PK	285063460	Insertion rod CHEMtrac 820 PEEK
MZ SSC 810/820 E	285063660	Sealing Set CHEMtrac 810/820 EPDM
MZ SSC 810/820 K	285063700	Sealing Set CHEMtrac 810/820 FFKM (Kalrez®)
MZ SSC 810/820 V	285063680	Sealing Set CHEMtrac 810/820 FPM (Viton®)

### CHEMtrac 820



# CHEMtrac 821

Type configurator:

pH-Retractable Holder CHEMtrac 821	
Code Material (wetted parts)	
PV	PVDF
PK	PEEK
XX	special
Code Sealing Material (wetted sealings)	
E	EPDM
V	FPM (Viton®)
K	FFKM (Kalrez®)
X	special
Code Sensor	
325	325 mm PG 13.5 gel-filled
380	380 mm PG 13.5 liquid-filled
XXX	special
Code Process Connection	
D50	Flange DN50
A20	Flange ANSI 2"
XXX	special
Code Cleaning Connection	
G18	G 1/8" thread female
G14	G 1/4" thread female
N14	1/4" NPT female
XXX	special
Code Position switch	
PN	pneumatic
XX	special
821-	- - - - - < Type No.

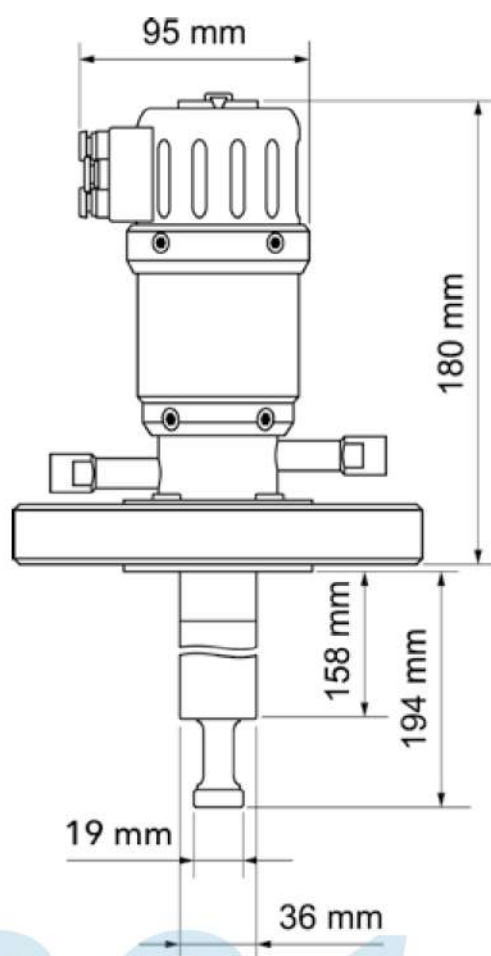
CHEMtrac 821  
with flange A20



## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 PV	285063570	Set blind plug G1/8" PVDF for cleaning chamber
MZ DUC 8XX 225/335 PN	285063520	Drive Unit - sensor 225/325 pneum. position switch
MZ DUC 8XX 280/380 PN	285063530	Drive Unit - sensor 280/380 pneum. position switch
MZ IRC 821 PV	285063450	Insertion rod CHEMtrac 821 PVDF
MZ IRC 821 PK	285063470	Insertion rod CHEMtrac 821 PEEK
MZ SSC 811/821 E	285063670	Sealing Set CHEMtrac 811/821 EPDM
MZ SSC 811/821 K	285063710	Sealing Set CHEMtrac 811/821 FFKM (Kalrez®)
MZ SSC 811/821 V	285063690	Sealing Set CHEMtrac 811/821 FPM

*CHEMtrac 821  
with flange A20*



# CHEMtrac 830

Type configurator:

## pH-Retractable Holder CHEMtrac 830 hygienic

### Code Material (wetted parts)

44 | Edelstahl 1.4404 / 316L

XX | special

### Code Sealing Material (wetted sealings)

E | EPDM/FDA

V | FPM (Viton®)

X | special

### Code Sensor

225 | 225 mm PG 13.5 gel-filled

280 | 280 mm PG 13.5 liquid-filled

XXX | special

### Code Process Connection

I28 | Ingold DN25 (G1 1/4") O-Ring-Position 28 mm

VAN | Varivent N DN40-125

T15 | TriClamp 1.5" (OD Ø 50.5 mm)

T20 | TriClamp 2" (OD Ø 64 mm)

BT5 | NEUMO BioControl 50

M50 | DIN 11851 DN50

XXX | special

### Code Cleaning Connection

G18 | G 1/8" thread female

G14 | G 1/4" thread female

N14 | 1/4" NPT female

XXX | special

### Code Position switch

PN | pneumatic

XX | special

830- - - - - < Type No.

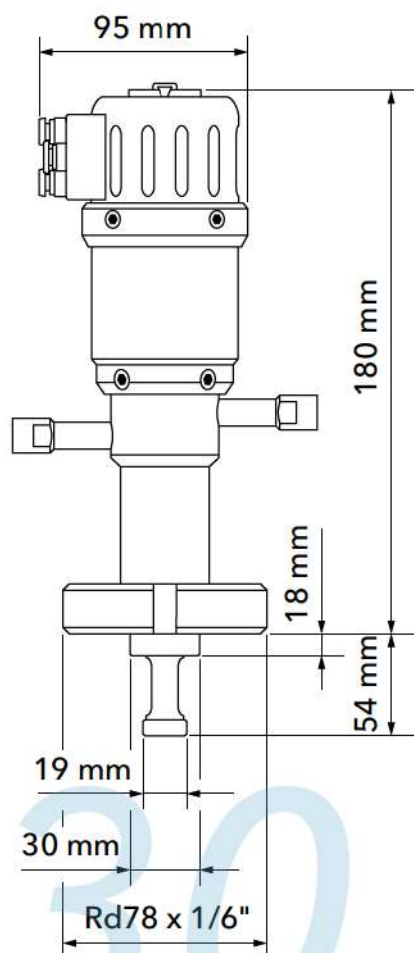
CHEMtrac 830 DN25



## Spare parts and accessories

Type No.	Order No.	Description
MZ BP G18 43	285063580	Set blind plug G1/8" 1.4301/316 for cleaning chamber
MZ DUC 8XX 225/325 PN	285063520	Drive Unit - sensor 225/325 pneum. position switch
MZ DUC 8XX 225/335 PN	285063530	Drive Unit - sensor 280/380 pneum. position switch
MZ IRC 810 44	285063480	Insertion rod CHEMtrac 830 1.4404 / 316L
MZ SSC 830 E I	285077640	Sealing Set CHEMtrac 830 EPDM/FDA (IN28 only)
MZ SSC 830 E BV	285077650	Sealing Set CHEMtrac 830 EPDM/FDA (BCT5 / VARN only)
MZ SSC 830 E	285077660	Sealing Set CHEMtrac 830 EPDM/FDA (all other types)
MZ SSC 830 V I	285077670	Sealing Set CHEMtrac 830 FPM (Ingold only)
MZ SSC 830 V BV	285077680	Sealing Set CHEMtrac 830 FPM (BCT5 / VARN only)
MZ SSC 830 V	285077690	Sealing Set CHEMtrac 830 FPM (all other types)

### CHEMtrac 830 M50



## 4.5 CHEMtrol 450

Type configurator:

Pneumatic Control Unit for Retractable	
Code Housing	
GF	Plastic housing
SS	Stainless steel housing
XX	special
Code Cleaning	
1	for one cleaning solution
2	for two cleaning solutions
X	special
Code Drain port	
0	without
1	with port for drain valve
Code Connecting hose	
00	without
03	3 m length
05	5 m length
10	10 m length
XX	special
Code Fastener	
00	without
CT	Fastening angle CHEMtrac
XX	special
450-	< Type No.

CHEMtrol 450



## Spare parts and accessories

Type No.	Order No.	Description
MZ CVS 2 PV	285063600	Cleaning valve set PVDF/FPM with 2 membrane-valves for one cleaning solution and one drain; connectors, PTFE-tubing and mounting brackets included
MZ CVS 3 PV	285063610	Cleaning valve set PVDF/FPM with 3 membrane-valves for two cleaning solutions and one drain; connectors, PTFE-tubing and mounting brackets included
MZ MV PV G3/8	285063590	Membrane-valve PVDF/FPM (single) G3/8"; Air Ø 6; DN12 PN6 NC for Cleaning solution or drain
MZ PMS PL/SS	285063560	Pipe Mounting Set (for plastic and stainless steel)
MZ WMS PL	285063540	Wall Mounting Set (for plastic housing)
MZ WMS SS	285063550	Wall Mounting Set (for stainless steel housing)

**CHEMtrol 450** is a manual control system with cleaning function. Operated with compressed air at 6 bar. No electrical installation required.

- Integrated connection hose for retractable holders.
- You can control up to two different cleaning solutions.
- Sensor position is provided.
- Choice of plastic or stainless steel model.
- Different pipe and wall mounting sets available as accessories.
- Different valve sets available as accessories.

# CHEMtrol 460

Type configurator:

## Automatic Control Unit for Retractable

### Code Housing

GF	Plastic housing
SS	Stainless steel housing
XX	special

### Code Cleaning

1	for one cleaning solution
2	for two cleaning solutions
X	special

### Code Drain port

0	without
1	with port for drain valve

### Code Connecting hose

00	without
03	3 m length
05	5 m length
10	10 m length
XX	special

### Code Fastener

00	without
CT	Fastening angle CHEMtrac
XX	special

460- - - - - < Type No.

CHEMtrol 460



## Spare parts and accessories

Type No.	Order No.	Description
MZ CUC 460	285063810	Control Unit CHEMtrol460
MZ CVS 2 PV	285063600	Cleaning valve set PVDF/FPM with 2 membrane-valves for one cleaning solution and one drain; connectors, PTFE-tubing and mounting brackets included
MZ CVS 3 PV	285063610	Cleaning valve set PVDF/FPM with 3 membrane-valves for two cleaning solutions and one drain; connectors, PTFE-tubing and mounting brackets included
MZ MV PV G3/8	285063590	Membrane-valve PVDF/FPM (single) G3/8"; Air Ø 6; DN12 PN6 NC for Cleaning solution or drain
MZ PMS PP/SS	285063560	Post Mounting Set (for plastic and stainless steel)
MZ PS	285063800	Pressure switch
MZ SV 3/2 G1/4	285063790	Solenoid valve 3/2-way G1/4" 24VDC 3.8W (without plug and cable)
MZ SV 5/2 G1/4	285063780	Solenoid valve 5/2-way G1/4" 24VDC 3.8W (without plug and cable)
MZ SV Plug	285063740	Plug for solenoid valve including cable
MZ WMS PL	285063540	Wall Mounting Set (for plastic housing)
MZ WMS SS	285063550	Wall Mounting Set (for stainless steel housing)

**CHEMtrol 460** is an electro-pneumatic control system with individually programmable controls as well as cleaning and block water function. Can work with any transmitter and every pneumatic holder.

- Integrated connection hose for retractable holder.
- You can control up to two different cleaning solutions.
- Sensor position is provided.
- Choice of plastic or stainless steel model.
- Different pipe and wall mounting sets available as accessories.
- Different valve sets available as accessories.

rol 460

## 4.6 CHEMflow 710

Type configurator:

Flow Through Vessel CHEMflow 710			
Code	Material		
71	Stainless Steel 1.4571 / 316Ti		
ET	Stainless Steel 1.4571 / 316Ti ETFE lined		
XX	special		
Code	Process Connection		
D25	Flange DIN 25		
D50	Flange DIN 50		
A10	Flange ANSI 1"		
A20	Flange ANSI 2"		
W25	Welding pipe DN 25/1" (not option "ET")		
W50	Welding pipe DN 50/2" (not option "ET")		
XXX	special		
Code	Holder Connection		
D50	Flange DN 50		
A20	Flange ANSI 2"		
I25	G 1 1/4" socket (not option "ET")		
XXX	special		
Code	Flow Direction		
18	180°		
09	90°		
710-	-	-	- < Type No.

CHEMflow 710

