

1906»2026

120 ANS

SOCIÉTÉ FAMILIALE
FRANÇAISE

↑↓ HUOT

DISTRIBUTION NETWORK

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Diagram illustrating the geometry of a circular plate with eight holes. The outer diameter is labeled D and the inner diameter is labeled c . A dimension line with arrows indicates the distance from the center to the edge of one hole.

Inch indication	Metric indication	Corresponding DN	Outer DN (mm)	Inner DN (mm)
1/8"	5-10	6	9,73	8,57
1/4"	8-13	8	13,16	11,44
3/8"	12-17	10	16,66	14,95
1/2"	15-21	15	20,96	18,63
3/4"	20-27	20	26,44	24,12
1"	26-34	26	33,25	30,29
1 1/4"	33-42	33	41,91	38,95
1 1/2"	40-49	40	47,80	44,85
2"	50-60	50	59,61	56,66

Nominal Diameter	PN 10					PN 16				
	D	C	Bolts			D	C	Bolts		
			Number	Diameter	Hole			Number	Diameter	Hole
DN										
40	150	110	4	M16	19	← Identical to PN10				
50	165	125	4	M16	19					
(60)	175	135	4	M16	19					
65	185	145	4	M16	19					
80	200	160	8	M16	19					
100	220	180	8	M16	19					
125	250	210	8	M16	19					
150	285	240	8	M20	23					
200	340	295	8	M20	23	340	295	12	M20	23
250	395	350	12	M20	23	405	355	12	M24	28
300	445	400	12	M20	23	460	410	12	M24	28
350	505	460	16	M20	23	520	470	16	M24	28
400	565	515	16	M24	28	580	525	16	M27	31
450	615	565	20	M24	28	640	585	20	M27	31
500	670	620	20	M24	28	715	650	20	M30	34

DISTRIBUTION NETWORK

■ Flange adaptors

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■ Flanges and accessories

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■ Couplings

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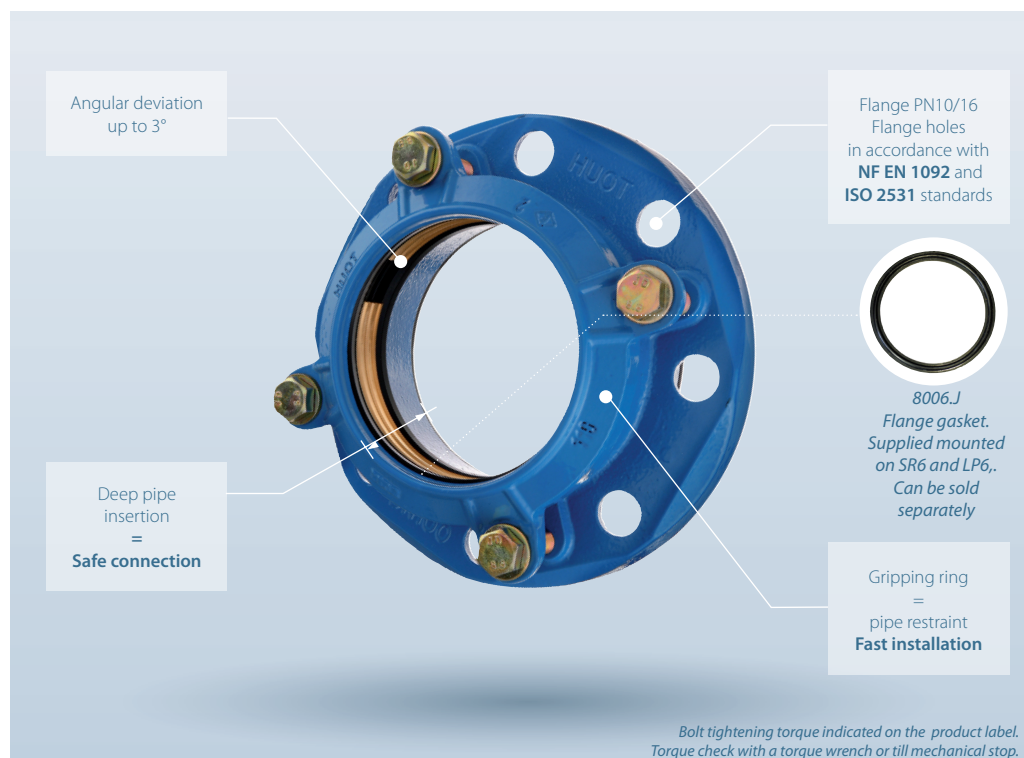
■ Torque wrench

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SR6

End-loaded flange adaptor

O.D. 40 to 315 mm - Flange DN40 DN300

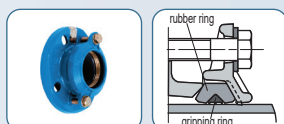


PRODUCT

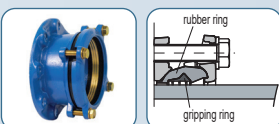
- Flat, recessed and glued flange ring with half rod-profile for total leakproofness between both connection flanges
- **End-loaded flange** adaptor for PE and PVC-U and PVC-O pipes
- **Angular deviation up to 3°**
- Two flanges for pre-installation **outside the trench**
- **Quick installation**, only one flange to fasten

FOCUS | LEAKPROOFNESS AND GRIP

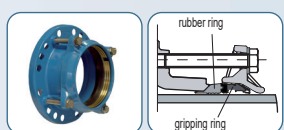
O.D. 40 to 140



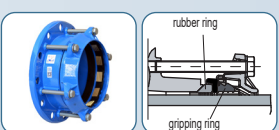
O.D. 180



O.D. 160 and O.D. 200



O.D. 225 to O.D. 315



SEAL GASKET

2 large HUOT gaskets inside the tightening flanges

GRIPPING SYSTEM

DN225 to 315 :
During tightening, the spaces between the gripping inserts are reduced as to form one performant gripping system



Applications - Please contact us for compatibility

PE80 PN16 and 12.5 PVC PN16 and 25 PE100 PN16 PN10 PVC-O PE pipes, standard EN 12201 PVC pipes, standard NF EN ISO 1452

Body	ductile cast iron in accordance with NF EN 1563
Flange	ductile cast iron in accordance with NF EN 1563
Gasket	NF EN 681-1 rubber - for fluid temperatures up to 40°C
Flange ring	NF EN 681-1 rubber - for fluid temperatures up to 40°C
Gripping ring	brass NF EN 1216X / NF EN 1982
Bolts	A4 (316) stainless steel
Coating	epoxy, average thickness 300 microns

Pressure and pressure drop tests in accordance with NF EN 12842.
Test certificates available on request.

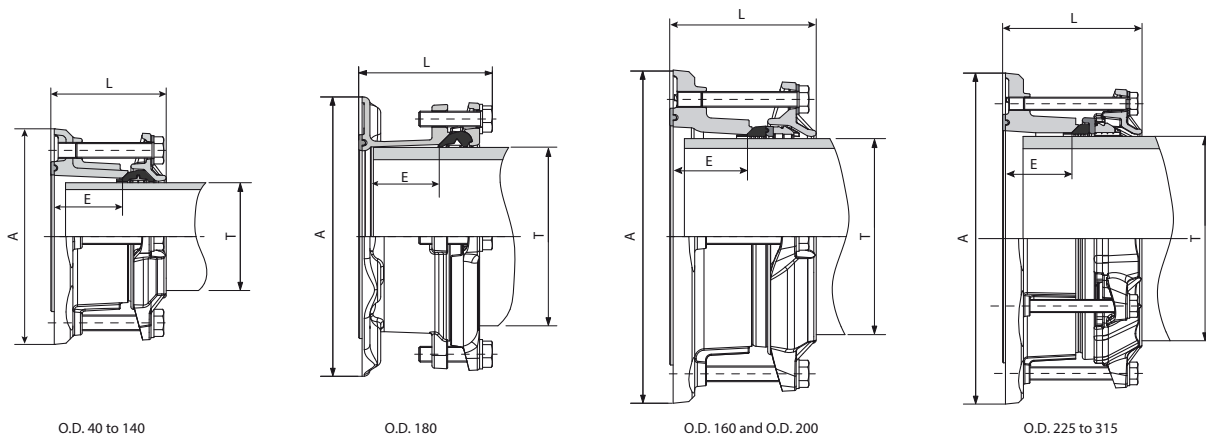
EPOXY
300
micron

LARGE
GASKET

WORKING
PRESSURE
16
BAR

ANGULAR
DEVIATION
< 3°

End-loaded flange adaptor O.D. 40 to 315 mm - Flange DN40 to DN300



Code	T Pipe Ø (mm)	Flange PN10/16		Bolts		E (mm)	L (mm)	Weight (kg)
		DN	A (mm)	Size	Qty			
9006.4040I	40	40	150	M12	2	35	69	1,55
9006.4050I	50	40/50	165	M12	2	35	70	1,79
9006.6063I	63	50/60/65	185	M16	2	65	110	3,01
9006.6075I	75	60/65	185	M16	2	65	113	3,49
9006.8075I	75	80	200	M16	2	65	113	3,58
9006.8090I	90	80	200	M16	4	65	109	4,40
9006.1011I	110	100	220	M16	4	70	118	5,28
9006.1012I	125	100	220	M16	4	70	119	5,58
9006.1212I	125	125	250	M16	4	70	119	5,69
9006.1214I	140	125	250	M16	4	75	122	5,78
9006.1516I	160	150	285	M16	4	71	138	7,99
9006.1518I	180	150	285	M16	4	71	138	4,71
9006.200I	200	200	340	M16	4	75	150	10,20
9006.225I	225	200	340	M16	6	78	174	17,26
9006.250I	250	250	405	M16	6	81	171	19,52
9006.315I	315	300	460	M16	6	88	180	26,52

B Tightening till mechanical stop

INSTALLATION ADVICE



INSTALLATION VIDEOS

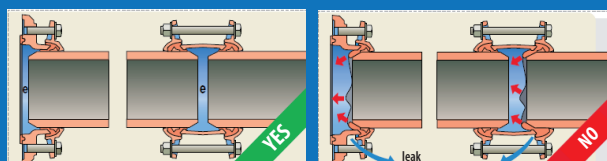


INSTALLATION TIPS

PIPE JOINTING

Insert the pipe beyond the gasket
Leave a space "e" for easier tightening

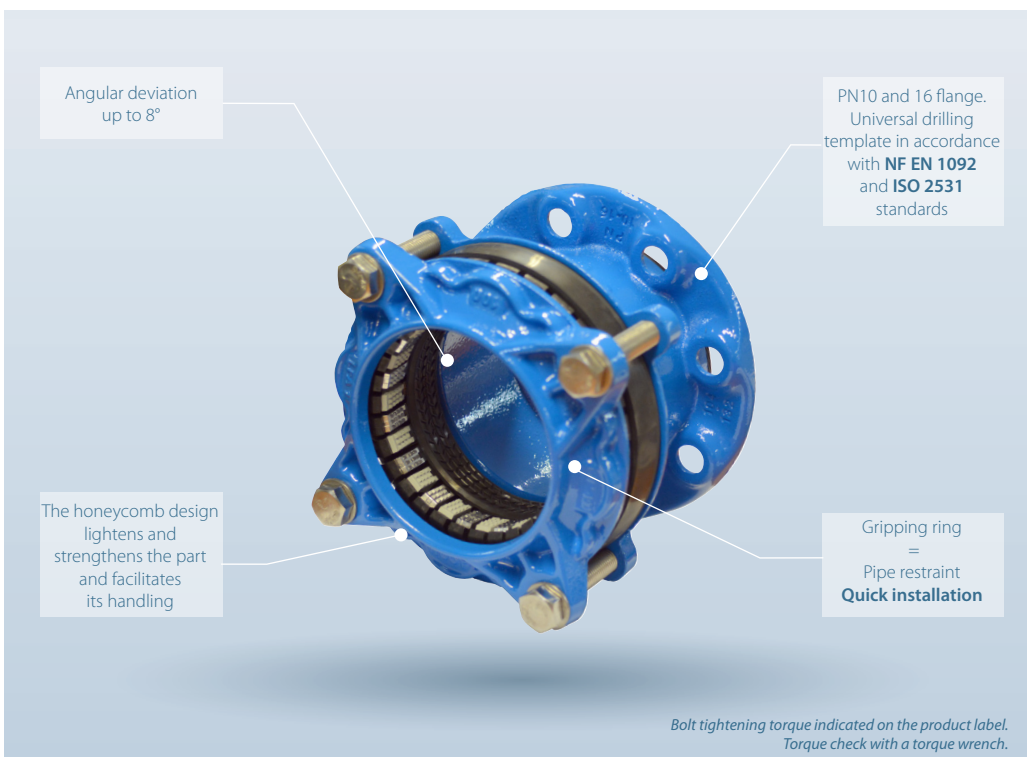
In order to measure "e":
insert the pipe completely,
mark it and then retreat
for 15 to 20 mm



LP8

End-loaded large tolerance flange adaptor For general use on all pipe types, O.D. 61 to 232 mm - Flange DN65 to DN200

DISTRIBUTION
NETWORK



PRODUCT

- ▶ Deep pipe insertion = **safe installation**
- ▶ **Large gasket** made by HUOT
- ▶ Double flange design enables pre-installation **outside the trench**
- ▶ Quick installation, only one flange to fasten

FOCUS | END-LOADED LARGE TOLERANCE CONNECTION

Wide range connection rule
Flange DN
=
fit for all pipes of the same DN

HUOT PERFORMANCE
ONE ADAPTOR
DN FOR UP
TO 8 PIPES
SIZES

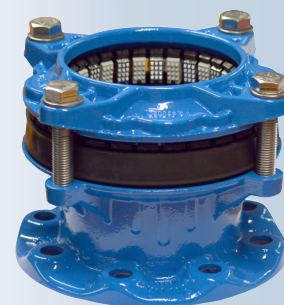
FOCUS | LP8 GASKETS DETAILS

TIGHTNESS RING

- The large ring compensates pipe ovalisation and surface defects

GRIP

Evenly spaced inserts ensure grip and wide range fitting



*

Applications - Please contact us for compatibility

PE80 PN16 and 12,5

PVC PN16 and 25

PE100 PN16
PN10

Ductile cast iron
Grey cast iron
Steel and coated steel
Composite cement

Adaptor	ductile cast iron in accordance with NF EN 1563
Flange	ductile cast iron in accordance with NF EN 1563
Gasket	NF EN 681-1 rubber - for fluid temperatures up to 40°C
Bolts	A4 (316) stainless steel
Inserts	stainless steel / POM
Coating	epoxy, 250 microns

Pressure and pressure drop tests in accordance with NF EN 12842.
Test certificates available on request.

EPOXY
250
micron

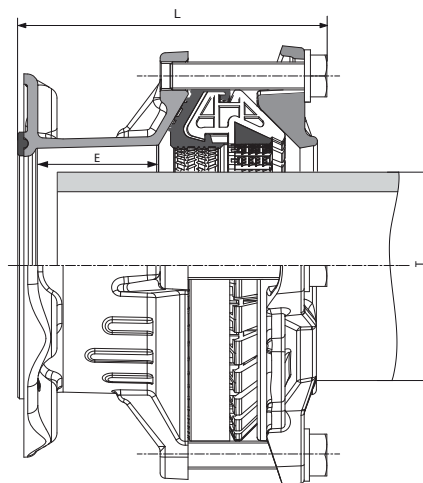
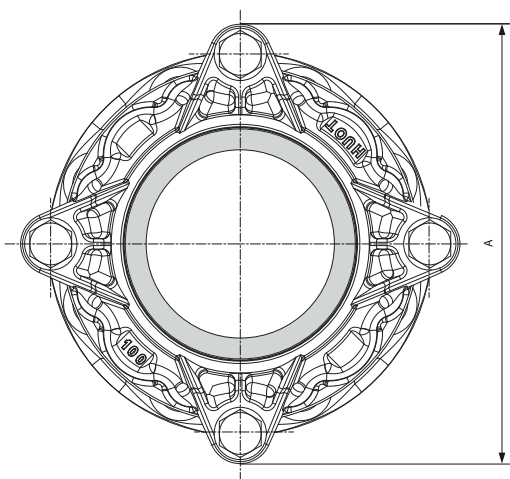
LARGE GASKET

WORKING PRESSURE
16
BAR

ANGULAR DEVIATION
8°

End-loaded large tolerance flange adaptor

For general use on all pipe types, O.D. 61 to 232 mm - Flange DN65 to DN200



Code	T Pipe Ø (mm)		Flange PN10/16		Bolts		E (mm)	L (mm)	Weight (kg)
	Min	Max	DN	A (mm)	Size	Qty			
8.65	61	87	60/65	207	M16	4	65	171	4,91
8.80	84	105	80	225	M16	4	65	171	5,88
8.100	104	132	100	252	M16	4	70	177	6,95
8.125	132	158	125	280	M16	4	75	186	8,45
8.150	158	192	150	312	M16	6	75	221	11,55
8.200	192	232	200	378	M16	6	90	225	16,22
8.250									
8.300									

In progress

INSTALLATION
ADVICE



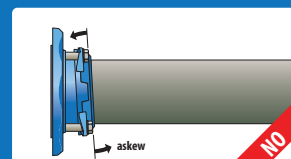
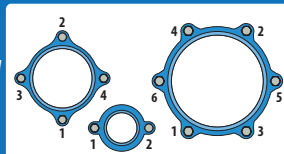
INSTALLATION
VIDEO



INSTALLATION TIPS

TIGHTENING

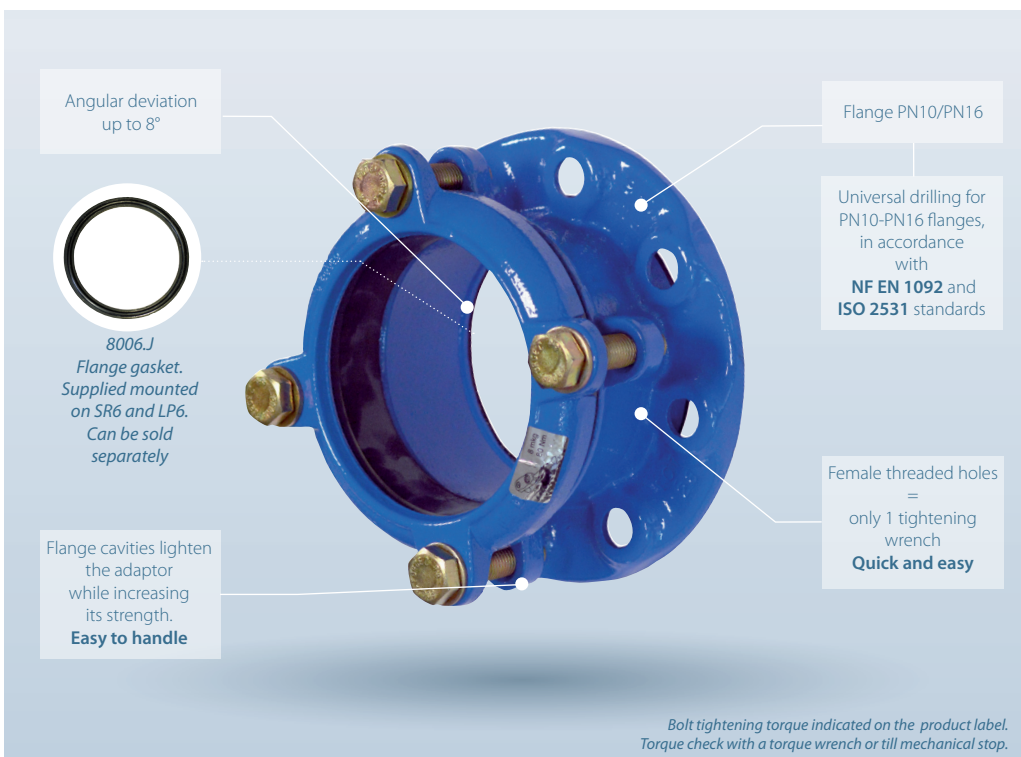
Tighten regularly following indicated order and torque.
Avoid askew of the components.



LP6

Large tolerance flange adaptor All pipe materials*, O.D. 43 - 337 mm - Flange DN40-DN300

DISTRIBUTION
NETWORK



PRODUCT

- ▶ Deep pipe insertion = **safe connection**
- ▶ **Large HUOT** gasket
- ▶ **Angular deviation up to 8°**
- ▶ The double flange allows **pre-assembly** outside the trench and facilitates laying

FOCUS | WIDE RANGE CONNECTIONS

Principle of wide range flange adaptors :

Flange DN
=
Connection of all pipe types
with the same DN

HUOT EFFICIENCY :
UP TO 8 PIPE
SIZES
WITH ONE
FLANGE DN

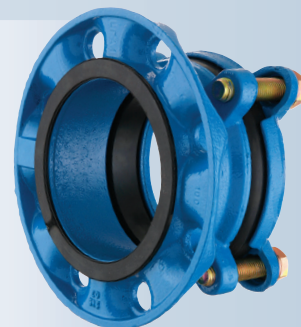
FOCUS | LP6 GASKET DETAILS

LARGE GASKET MADE BY HUOT

- Compensates pipe shape defects
- Makes up for pipe surface imperfections

FLANGE GASKET

- Flush-mounted and glued, flat flange ring
- Perfect leakproofness between-both connection flanges
- Easy to install



* Applications - Please contact us for compatibility

PE80 PN16 and 12,5

PVC PN16 and 25

PE100 PN16
PN10

PVC -O

Ductile cast iron
Grey cast iron
Steel and coated steel
Composite cement

⚠ Pipes must be blocked in longitudinal and lateral directions. For other applications, please contact us

Adaptor	ductile cast iron in accordance with NF EN 1563
Flange	ductile cast iron in accordance with NF EN 1563
Gasket	NF EN 681-1 rubber - for fluid temperatures up to 40°C
Flange ring	NF EN 681-1 rubber - for fluid temperatures up to 40°C
Bolts	A4 (316) stainless steel
Coating	epoxy, average thickness 300 microns

Pressure and pressure drop tests in accordance with NF EN 12842.
Test certificates available on request.

EPOXY
300
micron

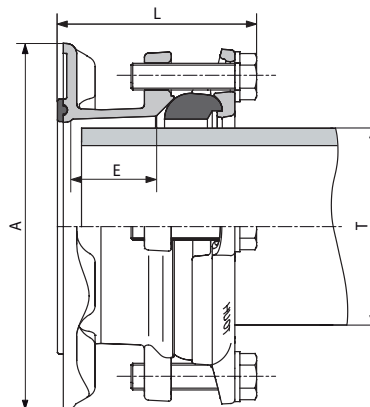
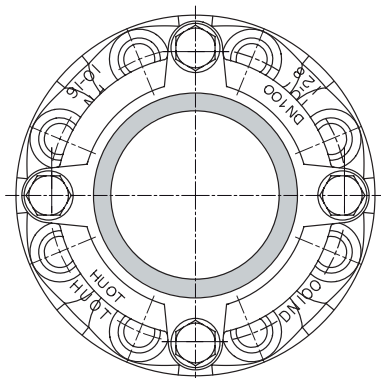
LARGE GASKET

WORKING PRESSURE
16
BAR

ANGULAR DEVIATION
8°

Large tolerance flange adaptor

All pipe materials*, O.D. 43 - 337 mm - Flange DN40-DN300



Code	T Tolerance (mm)		Flange PN10/PN16		Screws M16 Qty	E (mm)	L (mm)	Weight (kg)
	Min.	Max.	DN	A (mm)				
6.40I	43	61	40-50	165	2	43	110	1,93
6.50I	58	77	50-60-65	185	2	43	110	2,49
6.65I	69	88	60-65	185	4	43	110	2,90
6.80I	88	109	80	200	4	43	114	3,39
6.100I	107	128	100	220	4	50	119	4,09
6.125I	132	155	125	250	4	60	135	4,85
6.150I	158	182	150	285	4	70	148	4,42
6.175I	192	215	200	340	6	80	153	8,94
6.200I	217	241	200	340	6	90	170	9,33
6.225I	242	267	250	405	6	100	185	13,45
6.250I	268	290	250	405	6	110	195	14,03
6.300I	313	337	300	460	6	130	218	17,27

INSTALLATION ADVICE



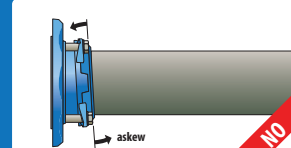
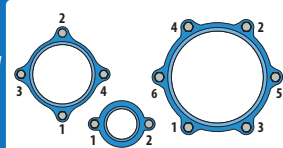
INSTALLATION VIDEO



INSTALLATION TIPS

TIGHTENING

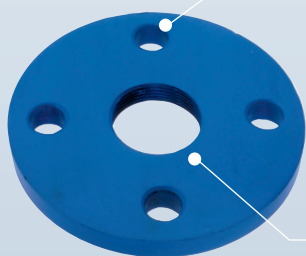
Tighten regularly following indicated order and torque.
Avoid askew of the components.



Flanges & accessories

348 | Flange

Round female threaded flange



Drilling
DN40 - DN150
= PN10/16
DN200 = PN10

Round blank flange



Female threading :
- BSP thread :
3/4" to 4"
- Metric thread
40x300 and
55x300

For connection between a male threaded part and a flanged adaptor or hydrant DN40 - DN200

Blanking element for adaptors or hydrants with DN40 to DN250 flange

⊕ PRODUCT

- ▶ For connections with flanged parts
- ▶ **The gasket** guarantees leak-proofness between two flanges
- ▶ Easy to install
- ▶ Epoxy 300 micron
- ▶ **For dimensions**, see overleaf

348/J | Flange ring

Ensures leakproofness between two flanged parts



57 | Assembly bolts

Hexagonal bolts



Hexagonal nut

Flange	ductile cast iron NF EN 1563
Female thread	in accordance with NF EN ISO 228-1 or NF ISO 965
Flange ring	NF EN 681-1 rubber - for fluid temperatures under 40°C
Bolts	A4 (316) stainless steel

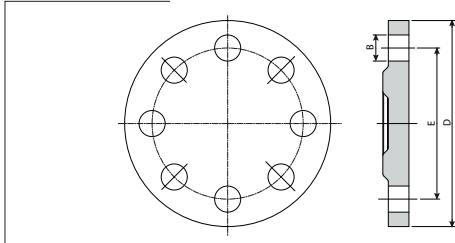
**FOR
FLANGED
PARTS**

**ELASTOMER
GASKET
ACTING LIKE
A SUCTION PAD**

Test certificates available on request.

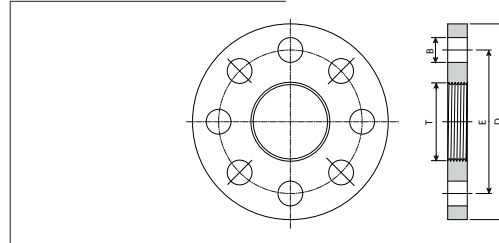
Flanges & accessories

348 - Blank flange



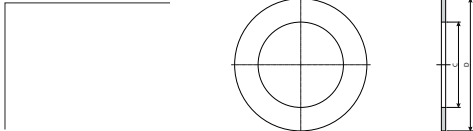
Code	DN (mm)	PN (mm)	D O.D. (mm)	E Ø Hole (mm)	B Ø Hole (mm)	Nb holes/DN
348.40	40	10/16	150	110	19	4
348.50	50	10/16	165	125	19	4
348.60	60/65	10/16	175/185	135/145	19	4
348.80	80	10/16	200	160	19	8
348.100	100	10/16	220	180	19	8
348.125	125	10/16	250	210	19	8
348.150	150	10/16	285	240	23	8
348.200	200	10	340	295	23	8
348.250	250	10	395	350	23	12

348 - Female threaded flange



Code	T Thread.	DN (mm)	PN (mm)	D O.D. (mm)	E Ø Hole (mm)	B Ø Hole (mm)	Nb holes/DN
348.4020	3/4"	40	10/16	150	110	19	4
348.4026	1"	40	10/16	150	110	19	4
348.4033	1 1/4"	40	10/16	150	110	19	4
348.4040	1 1/2"	40	10/16	150	110	19	4
348.4050	2"	40	10/16	150	110	19	4
348.4043	M40x3	40	10/16	150	110	19	4
348.4055	M55x3	40	10/16	150	110	19	4
348.5040	1 1/2"	50	10/16	165	125	19	4
348.5050	2"	50	10/16	165	125	19	4
348.5043	M40x3	50	10/16	165	125	19	4
348.5055	M55x3	50	10/16	165	125	19	4
348.6026	1"	60/65	10/16	175/185	135/145	19	4
348.6033	1 1/4"	60/65	10/16	175/185	135/145	19	4
348.6040	1 1/2"	60/65	10/16	175/185	135/145	19	4
348.6050	2"	60/65	10/16	175/185	135/145	19	4
348.6066	2 1/2"	60/65	10/16	175/185	135/145	19	4
348.6043	M40x3	60/65	10/16	175/185	135/145	19	4
348.6055	M55x3	60/65	10/16	175/185	135/145	19	4
348.8033	1 1/4"	80	10/16	200	160	19	8
348.8040	1 1/2"	80	10/16	200	160	19	8
348.8050	2"	80	10/16	200	160	19	8
348.8066	2 1/2"	80	10/16	200	160	19	8
348.8080	3"	80	10/16	200	160	19	8
348.8043	M40x3	80	10/16	200	160	19	8
348.8055	M55x3	80	10/16	200	160	19	8
348.10040	1 1/2"	100	10/16	220	180	19	8
348.10050	2"	100	10/16	220	180	19	8
348.10066	2 1/2"	100	10/16	220	180	19	8
348.10080	3"	100	10/16	220	180	19	8
348.100102	4"	100	10/16	220	180	19	8
348.10043	M40x3	100	10/16	220	180	19	8
348.10055	M55x3	100	10/16	220	180	19	8
348.12550	2"	125	10/16	250	210	19	8
348.12543	M40x3	125	10/16	250	210	19	8
348.12555	M55x3	125	10/16	250	210	19	8
348.15050	2"	150	10/16	285	240	23	8
348.15066	2 1/2"	150	10/16	285	240	23	8
348.15043	M40x3	150	10/16	285	240	23	8
348.15055	M55x3	150	10/16	285	240	23	8
348.20080	3"	200	10	340	295	23	8
348.20043	M40x3	200	10	340	295	23	8
348.20055	M55x3	200	10	340	295	23	8

348/J - Flange ring



Code	DN (mm)	D O.D. (mm)	C Ø Hole (mm)	E Thickness (mm)
348.J40	40	90	40	5
348.J50	50	105	50	5
348.J60	60	115	60	5
348.J80	80	141	80	5
348.J100	100	155	100	5
348.J125	125	185	125	5
348.J150	150	210	150	5
348.J200	200	265	200	5
348.J250	250	320	250	5
348.J300	300	370	300	5

57 - Bolts



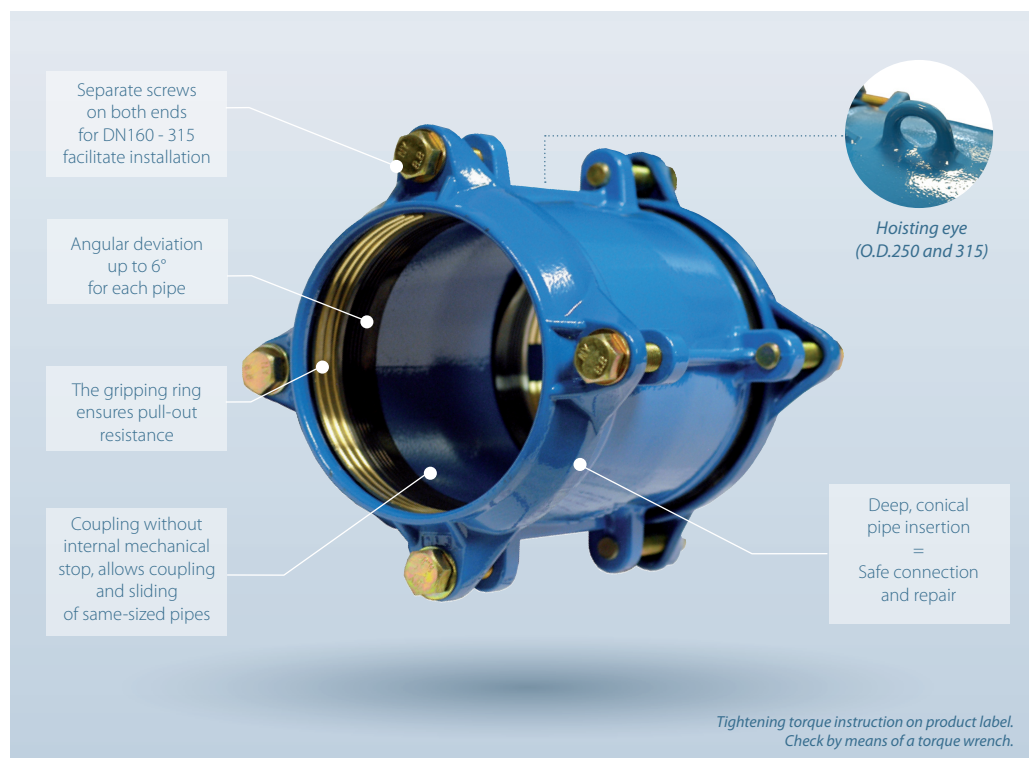
Code	L Diameter x Length	For flange DN
57.1670I	M16 x 70	40 to 125
57.1680I	M16 x 80	40 to 125
57.2080I	M20 x 80	150 to 350

SR5

End-loaded coupling

O.D. 40 to 315 mm

DISTRIBUTION NETWORK

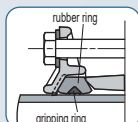


PRODUCT

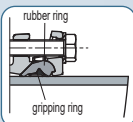
- ▶ Pull-out resistance = **no concrete support needed** = quick installation
- ▶ Deep pipe insertion = **safe connection**
- ▶ Advantageous solution : assembled and ready-for-use coupling, **no specific tools needed**
- ▶ **Separate screw** tightening for easier installation

FOCUS | LEAKPROOFNESS AND GRIP

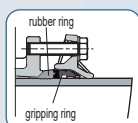
O.D. 40 to 140



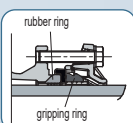
O.D. 180



O.D. 160 and O.D. 200



O.D. 225 to O.D. 315



SEAL GASKET

2 large HUOT gaskets inside the tightening flanges

GRIPPING SYSTEM

DN225 to 315 : During tightening, the spaces between the gripping inserts are reduced as to form one performant gripping system



Applications - Please contact us for compatibility

PE80 PN16 and 12.5 PVC PN16 and 25 PE100 PN16 PN10 PVC -O

PE pipes, standard NF EN 12201
PVC pipes, standard NF EN ISO 1452

Sleeve	ductile cast iron in accordance with NF EN 1563
Flange	ductile cast iron in accordance with NF EN 1563
Gasket	NF EN 681-1 rubber - for fluid temperatures up to 40°C
Gripping ring	NF EN 1216X / NF EN 1982
Bolts	A4 (316) stainless steel
Coating	epoxy, average thickness 300 microns

Pressure and pressure drop tests in accordance with NF EN 12842.
Test certificates available on request.

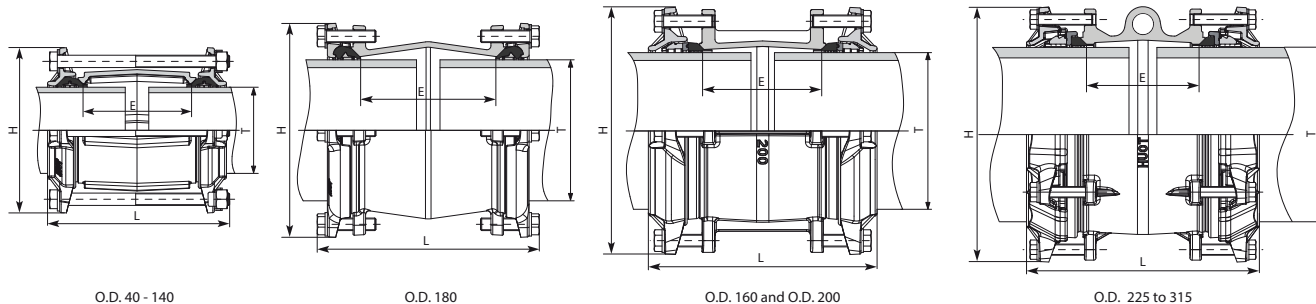
EPOXY
300
micron

LARGE
GASKET

WORKING
PRESSURE
16
BAR

ANGULAR
DEVIATION
< 6°

End-loaded coupling O.D. 40 to 315 mm



Code	T Pipe O.D. (mm)	Bolts		E (mm)	L (mm)	H (mm)	Weight (kg)	
		Size	Qty					
9005.40I	40	M12	2	45	108	118	1,12	
9005.50I	50	M12	2	48	110	127	1,32	
9005.63I	63	M16	2	130	231	162	3,55	B
9005.75I	75	M16	2	130	232	183	4,15	B
9005.90I	90	M16	4	130	231	190	5,45	B
9005.110I	110	M16	4	140	223	211	6,55	B
9005.125I	125	M16	4	140	233	235	7,08	B
9005.140I	140	M16	4	150	243	240	7,80	B
9005.160I	160	M16	8	142	269	262	7,91	B
9005.180I	180	M16	8	175	284	273	11,54	
9005.200I	200	M16	8	150	292	316	12,29	B
9005.225I	225	M16	12	156	321	341	21,36	B
9005.250I	250	M16	12	162	334	366	23,97	B
9005.315I	315	M16	12	176	353	433	32,82	B

B Tightening till mechanical stop

INSTALLATION ADVICE



INSTALLATION VIDEOS



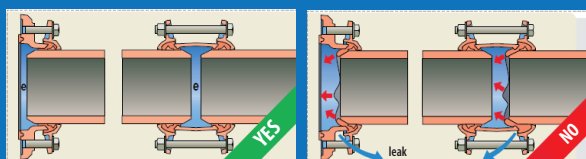
INSTALLATION TIPS

PIPE JOINTING

Insert the pipe beyond the gasket
Leave a space "e" for easier tightening



In order to measure "e":
insert the pipe completely,
mark it and then retreat
for 15 to 20 mm

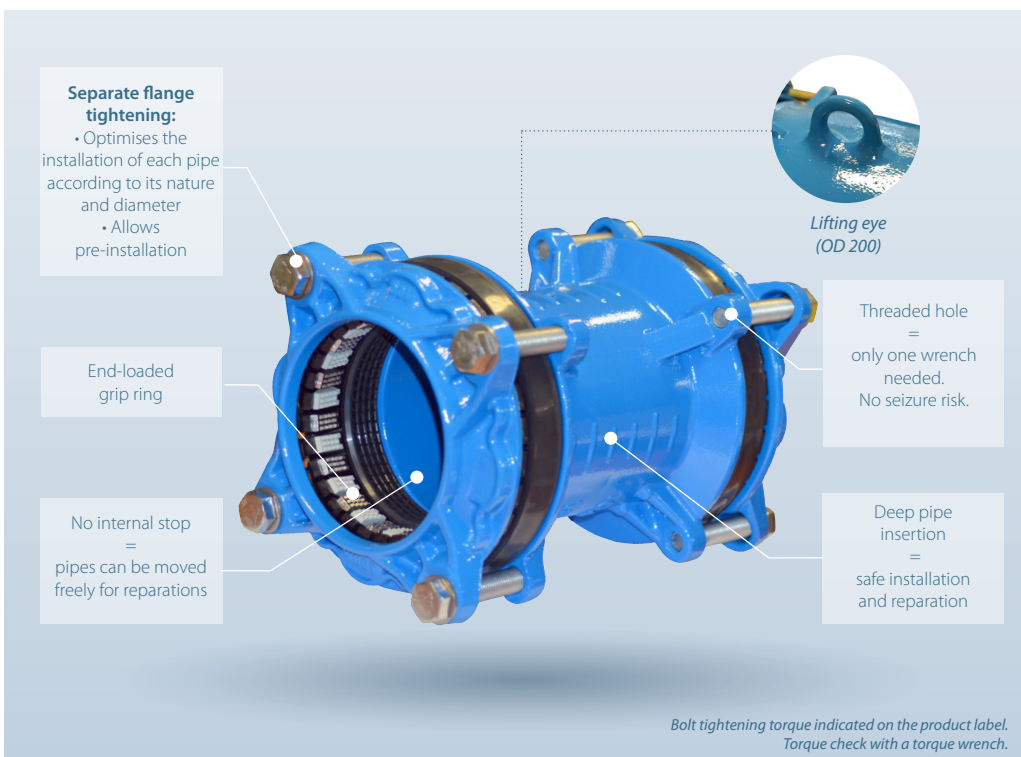


LP7

End-loaded large tolerance coupling

For general use on all pipe types, O.D. 61 to 232 mm

DISTRIBUTION NETWORK



PRODUCT

- ▶ Deep pipe insertion = **safe installation**
- ▶ End-loaded = **no need for a concrete basement** = quick installation
- ▶ Good value coupling, pre-assembled and ready for installation. **No specific tools needed**
- ▶ **Separate tightening** optimises its installation

FOCUS | END-LOADED LARGE TOLERANCE CONNECTION

Wide range connection rule
Flange DN
= **fit for all pipes of the same DN**

HUOT PERFORMANCE
ONE COUPLING DN
FOR UP TO
8 PIPE SIZES

FOCUS | LP7 GASKETS DETAILS

TIGHTNESS RING

- Two large HUOT gaskets inside the flanges
- Leakproofness due to gasket rotation during tightening
- The large ring compensates pipe ovalisation and surface defects

GRIP

Evenly spaced inserts ensure grip and wide range fitting



*

Applications - Please contact us for compatibility

PE80 PN16 and 12,5

PVC PN16 and 25

PE100 PN16 PN10

Ductile cast iron
Grey cast iron
Steel and coated steel
Composite cement

Adaptor	ductile cast iron in accordance with NF EN 1563
Flange	ductile cast iron in accordance with NF EN 1563
Gasket	NF EN 681-1 rubber- for fluid temperatures up to 40°C
Bolt	A4 (316) stainless steel
Inserts	stainless steel / POM
Coating	epoxy, 250 microns

Pressure and pressure drop tests in accordance with NF EN 12842.
Test certificates available on request.

EPOXY
250
micron

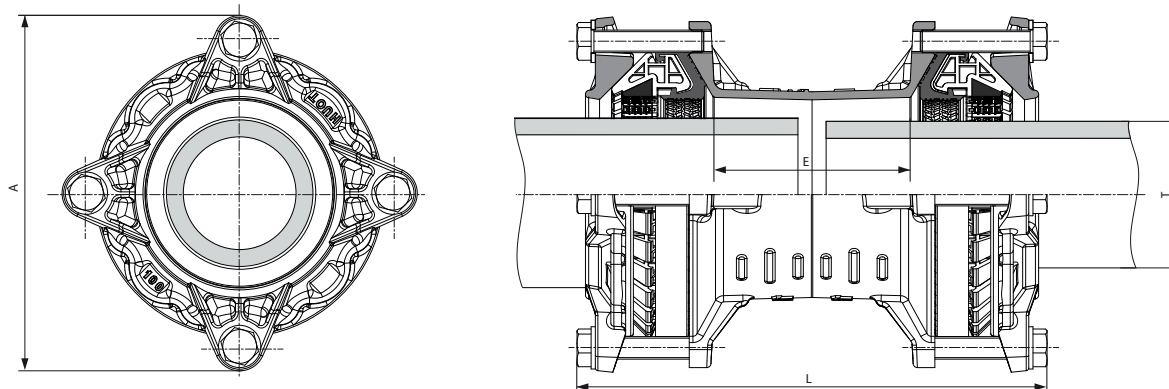
LARGE
GASKET

WORKING
PRESSURE
16
BAR

ANGULAR
DEVIATION
8°

End-loaded large tolerance coupling

For general use on all pipe types, O.D. 61 to 232 mm



Code	T Pipe O.D. (mm)		Bolts		A (mm)	E (mm)	L (mm)	Weight (kg)
	Min	Max	Size	Qty				
7.65	61	87	M16	8	207	130	323	8,30
7.80	84	105	M16	8	225	130	332	9,82
7.100	104	132	M16	8	252	140	334	11,71
7.125	132	158	M16	8	280	150	346	14,06
7.150	158	192	M16	12	312	150	342	17,92
7.200	192	232	M16	12	378	180	424	27,96
7.250								
7.300								

In progress

INSTALLATION
ADVICE



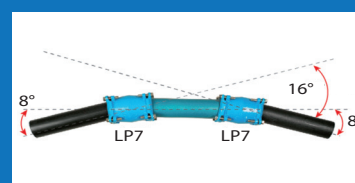
INSTALLATION
VIDEO



FURTHER INFORMATION

ANGULAR DEVIATION

The angular deviation of 4° at both ends of the sleeve makes repairs easier, ground irregularities are compensated. With two sleeves a bend of 16° can be attained.

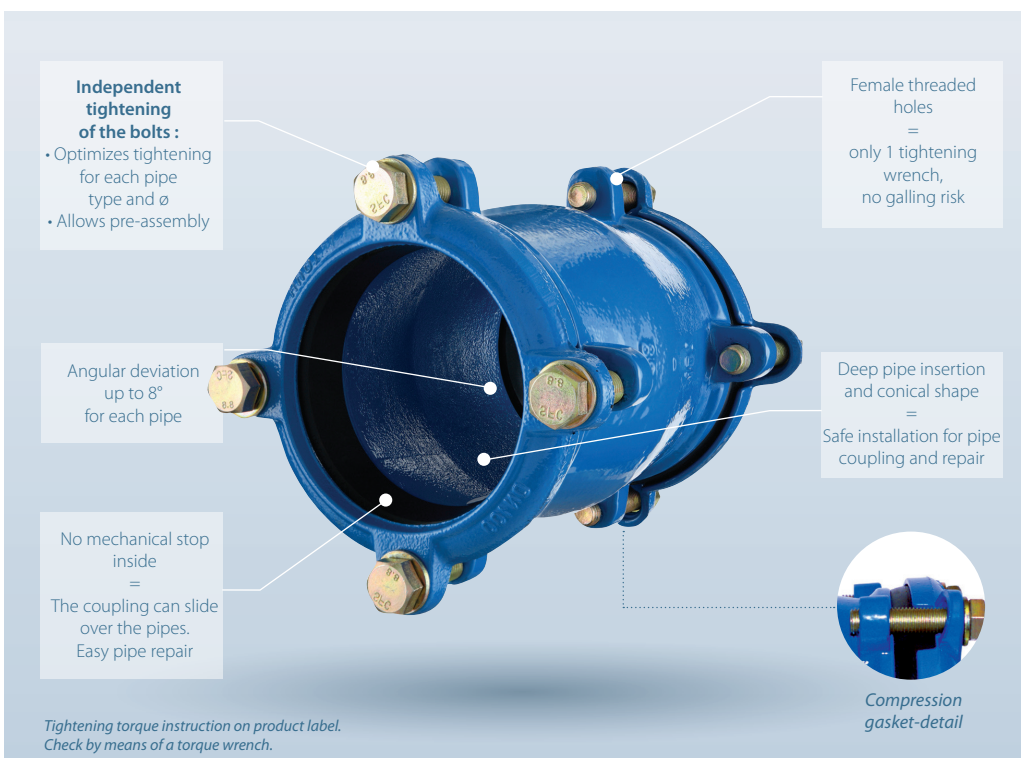


LP5

Large tolerance coupling sleeve

All pipe materials*, O.D. 43 to 337 mm

DISTRIBUTION NETWORK



PRODUCT

- ▶ Deep pipe insertion = **safe installation**
- ▶ The flange design generates optimal gasket compression and leakproofness with a minimal number of compression elements
- ▶ **Independent tightening** facilitates pipe connection
- ▶ **Angular deviation up to 8°**

FOCUS | WIDE RANGE CONNECTION

Principle of large tolerance connection
=
Connection to pipes of the same DN

HUOT PERFORMANCE
UP TO 8 PIPE DIAMETERS CAN BE CONNECTED BY ONLY ONE COUPLING SIZE

FOCUS | LP5 GASKET DETAILS

LARGE GASKET MADE BY HUOT

- 2 large HUOT gaskets inside the tightening flanges
- Perfect leakproofness over the whole range thanks to the rotation of the gaskets during tightening
- The large gasket compensates pipe shape defects and makes up for pipe surface imperfections



* Applications - Please contact us for compatibility

PE80 PN16 and 12,5 PVC PN10, 16 and 25 PE100 PN16 PN10 PVC-O

Pipes must be blocked in longitudinal and lateral directions. For other applications, please contact us

Ductile cast iron
Grey cast iron
Steel and coated steel
Composite cement

Adaptor	ductile cast iron in accordance with NF EN 1563
Flange	ductile cast iron in accordance with NF EN 1563
Gasket	NF EN 681-1 rubber- for fluid temperatures up to 40°C
Bolt	A4 (316) stainless steel
Coating	epoxy, average thickness 300 microns

Pressure and pressure drop tests in accordance with NF EN 12842.
Test certificates available on request.

EPOXY
300
micron

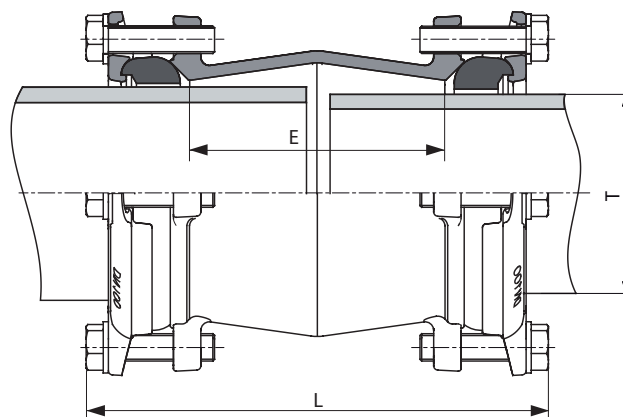
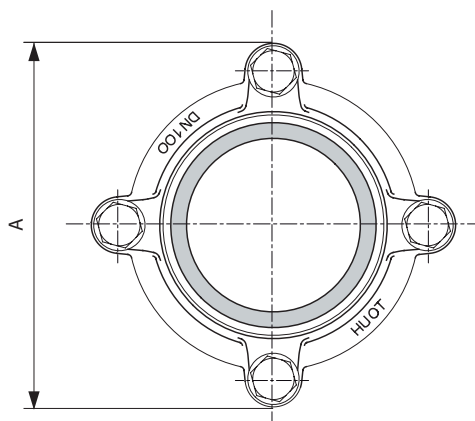
LARGE GASKET

WORKING PRESSURE
16
BAR

ANGULAR DEVIATION
 8°

Large tolerance coupling sleeve

All pipe materials*, O.D. 43 to 337 mm



Code	T Tolerance (mm)		Bolts		A (mm)	E (mm)	L (mm)	Weight (kg)
	Min.	Max.	Size	Qty				
5.40I	43	61	M16	4	158	120	241	3,11
5.50I	58	77	M16	4	162	125	243	4,20
5.65I	69	88	M16	8	178	132	243	5,75
5.80I	88	109	M16	8	193	140	257	8,01
5.100I	107	128	M16	8	213	150	270	9,75
5.125I	132	155	M16	8	243	162	287	9,32
5.150I	158	182	M16	8	273	175	303	10,98
5.175I	192	215	M16	12	305	187	314	15,37
5.200I	217	241	M16	12	330	200	331	16,32
5.225I	242	267	M16	12	365	212	360	22,42
5.250I	268	290	M16	12	385	225	365	24,12
5.300I	313	337	M16	12	435	250	396	29,82

INSTALLATION
ADVICE



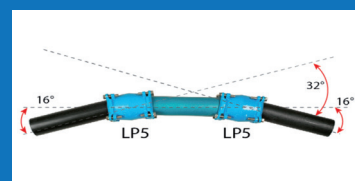
INSTALLATION
VIDEO



FURTHER INFORMATION

ANGULAR DEVIATION

The angular deviation of 8° at both ends of the sleeve makes repairs easier, ground irregularities are compensated. With two sleeves a bend of 32° can be attained.



LP2005

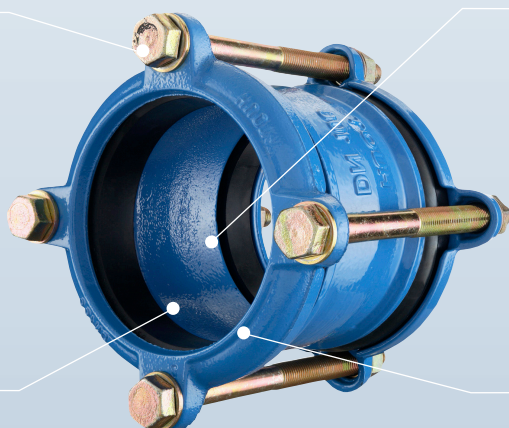
Large tolerance coupling

All pipe materials*, O.D. 43 to 241 mm

For the connection of two pipes with rather different ODs inside a given range, we recommended the use of a LP5 sleeve

Single tightening
=
Optimum fitting
in one action

Deep pipe
insertion
=
Safe connection
and repair



Angular deviation
up to 6°

No mechanical stop
inside
=
The coupling can slide
over the pipes.
Easy pipe repair

Tightening torque instruction on product label.
Check by means of a torque wrench.

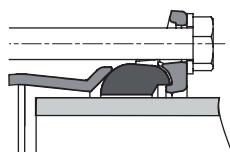
PRODUCT

- ▶ Deep pipe insertion = **safe installation**
- ▶ Good value coupling, pre-assembled and **ready for use**, no special tools needed
- ▶ The flange design generates optimal gasket compression and leakproofness with a minimal number of compression elements
- ▶ **Single tightening** optimises pipe connection
- ▶ **Angular deviation up to 6°**

FOCUS | WIDE RANGE COUPLING

Principle of large tolerance
connection
=
Connection to pipes
of the same DN

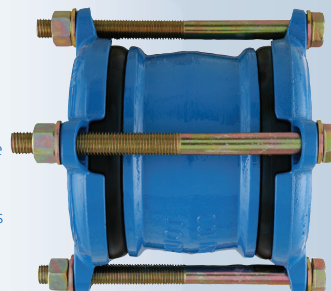
COMPRESSION GASKET-DETAIL



FOCUS | LP2005 GASKET DETAILS

LARGE GASKET MADE BY HUOT

- 2 large HUOT gaskets inside the tightening flanges
- Perfect leakproofness over the whole range thanks to the rotation of the gaskets during tightening
- The large gasket compensates pipe shape defects and makes up for pipe surface imperfections



* Applications - Please contact us for compatibility

PE80 PN12,5 and 16

PVC PN10, 16 and 25

PE100 PN10
PN16

PVC -O

Ductile cast iron
Grey cast iron
Steel and coated steel
Composite cement

⚠ Pipes must be blocked in longitudinal and lateral directions - For others applications, please contact us

Adaptor	ductile cast iron in accordance with NF EN 1563
Flange	ductile cast iron in accordance with NF EN 1563
Gasket	NF EN 681-1 rubber - for fluid temperatures up to 40°C
Bolts	GEOMET steel 500 grade B 1000 HBS
Coating	epoxy, average thickness 300 microns

Pressure and pressure drop tests in accordance with NF EN 12842.
Test certificates available on request.

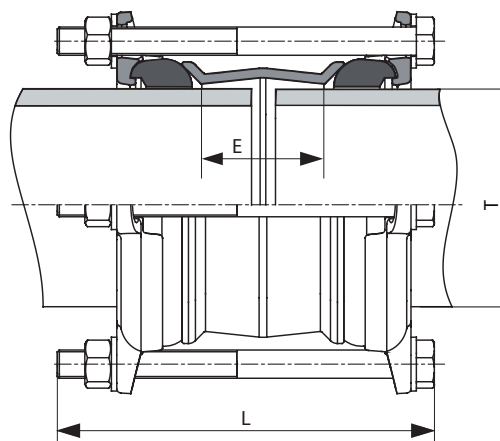
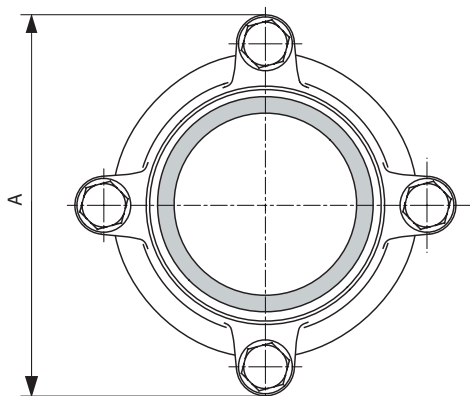
EPOXY
300
micron

LARGE
GASKET

WORKING
PRESSURE
16
BAR

ANGULAR
DEVIATION
≤ 6°

Large tolerance coupling
All pipe materials*, O.D. 43 to 241 mm



Code	T Tolerance (mm)		Bolts		A (mm)	E (mm)	L (mm)	Weight (kg)
	Min.	Max.	Size	Qty				
2005.40	43	61	M16	2	158	71	190	2,10
2005.50	58	77	M16	2	162	71	190	3,04
2005.65	69	88	M16	4	178	75	190	3,77
2005.80	88	109	M16	4	193	77	190	3,73
2005.100	107	128	M16	4	213	79	210	5,13
2005.125	132	155	M16	4	243	79	210	6,00
2005.150	158	182	M16	4	273	81	210	7,21
2005.175	192	215	M16	6	305	81	210	8,86
2005.200	217	241	M16	6	330	83	210	10,01

HUOT LARGE TOLERANCE APP



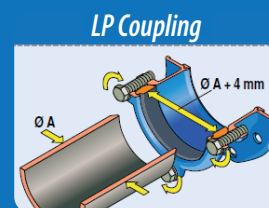
- Allows to find the HUOT product code for a given pipe DN
- 3D product demos
- Product assembly videos
- Entertaining and practical

Download the app for smartphones and tablets on AppStore or Google Play

INSTALLATION TIPS

PREPARATION BEFORE INSTALLATION

Cage the gasket in order to reduce play between coupling and pipe



2000/CD

Torque wrench

Professional tool for installation of potable water fittings and service connections

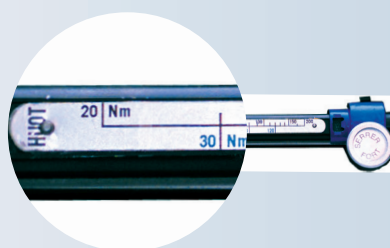
DISTRIBUTION NETWORK



PRODUCT

- ▶ The use of a torque wrench optimizes the installation of HUOT fittings and service connections.
- ▶ The recommended torque for each product group is marked on the **torque strip** with a cursor
- ▶ **Audible and tactile signal** when the recommended torque is attained
- ▶ Manageable and maintenance-friendly
- ▶ The resetting of the wrench occurs during tightening and loosening.

FOCUS | TORQUE STRIP DETAIL



FOCUS | CALIBRATION

WRENCH
CALIBRATION
=
OPTIMUM
MEASUREMENT

FOCUS | RECOMMENDED PRODUCT GROUPS*

- SR5 - SR6 end-loaded couplings
- LP5 - LP6 - LP7 - LP8 large tolerance couplings
- R5 - R6 couplings
- Tapping saddles LP89 / LP88 / 88P / LP9189

*The recommended torque is indicated by a sticker on all parts

Quality standards	NF EN ISO 6769-1
Accuracy	± 4% of the indicated torque
Capacity	from 20 Nm to 200 Nm (about 2 to 20 mkg)

EXTENDER

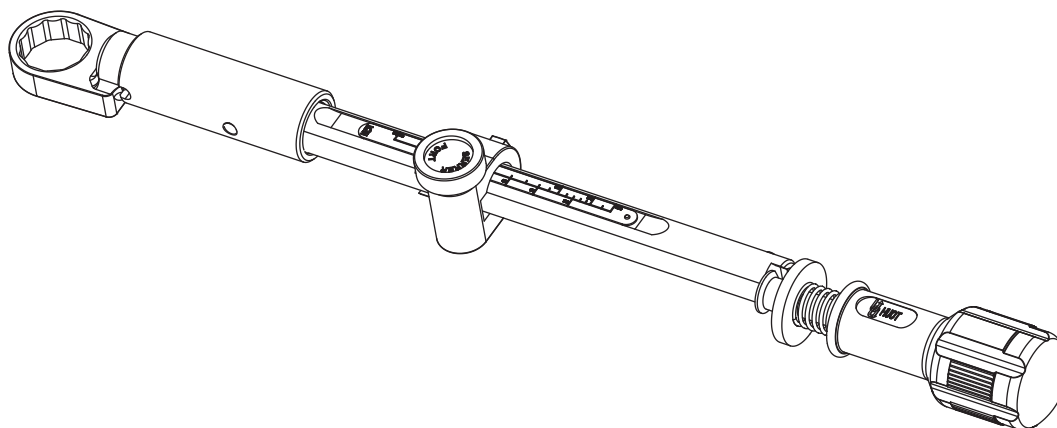
SPECIAL
GRADUATED
TORQUE STRIP
FOR HUOT PRODUCTS

FOR
POTABLE
WATER FITTINGS
AND
CONNECTIONS

AUDIBLE
SIGNAL

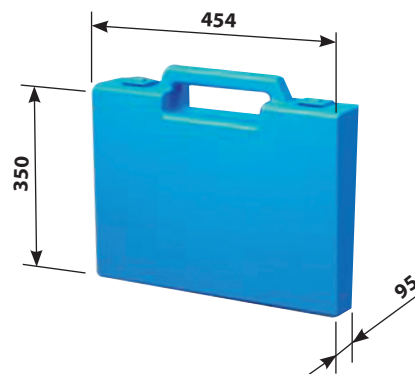
Torque wrench

Professional tool for installation of potable water fittings and service connections



Code	Weight (kg)
2000.CD	1,60

Supplied in **rigid case**.
With instructions for use
and calibration report.



HUOT LARGE TOLERANCE APP



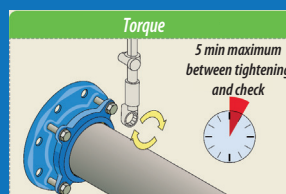
- Allows to find the HUOT product code for a given pipe DN
- 3D product demos
- Product assembly videos
- Entertaining and practical

Download the app
for smartphones and tablets
on AppStore or Google Play

INSTALLATION TIPS

DOUBLE CHECK

Check torque **immediately after tightening** by means of the wrench.
If necessary, tighten again.



IMPORTANT

Only the indicated torque
guarantees optimum sealing
and leakproofness.

HUOT ၁၉၆၁ ခု

SERVICE CONNECTIONS

■ BSP tapping saddles

389/P.....	19
LP389.....	21
MP98.....	23
LP389.....	25

■ Service valves

SE5412.....	27
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■ Under pressure tapping saddles

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■ PERFORUO 3489

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■ Stop valves

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■ Stop valves

SE403.....	45
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■ Service connection accessories

UObloc 87/A.....	47
Wrench.....	49
Extension tube.....	49
Cap.....	49
Surface box and plate.....	51

389/P

Tapping saddle with BSP threaded outlet

For PE & PVC, Pressure ≥ 10 bar



PRODUCT

- The heels prevent overtightening and pipe damage
- Optimises the **mechanical tightening strength**
- **Perfect adhesion** between the saddle's contact sections and the pipe
- No **metal sealing ring** needed

FOCUS | GASKET DETAIL 389/P



Dedicated seal, made by HUOT
Moulded gasket, centred in the collar

FOCUS | 389/P CONCEPT

SECURITY HEELS

Installation security thanks to the heels of the saddle's upper half, which prevent overtightening, especially in case of feeble pipe thickness.



Applications - Please contact us for compatibility

PE80 PN10 to 16

PVC PN10 to 25

PE100 PN10 to PN16

PVC BO



Please consult us for pipes of feeble thickness

Saddle halves	ductile cast iron according NF EN 1563
Outlet	BSP thread according to NF EN ISO 228-1
Gasket	NF EN 681-1 rubber - for fluid temperatures below 40°C
Bolts	A4 (316) stainless steel
Coating	epoxy, average thickness 300 micron

Strength test to HUOT specifications: 150Nm. Leakproof and depressurization test according to NF EN 12842 with bolts tightened at 30 and 50 Nm. Corrosion resistance test according to NF EN ISO 9227. Test certificates in accordance with current standards are available on request.

EPOXY
300
micron

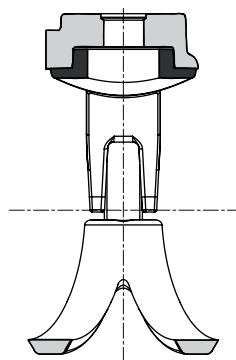
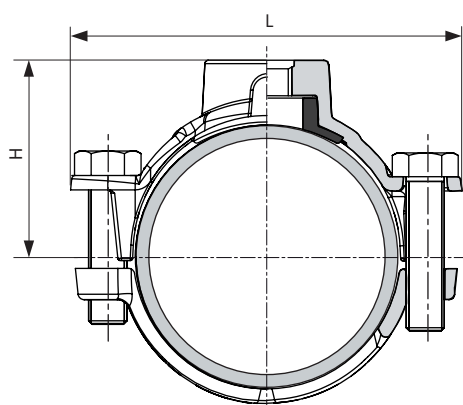
SAFETY
HEEL

PRESSURE
16
BAR

ONLY ONE
WRENCH
x1

Tapping saddle with BSP threaded outlet

For PE & PVC, Pressure ≥ 10 bar



Code	DN	Thread Ø (mm)	L (mm)	H (mm)	Galvanized Bolt - Size	Weight (kg)
389.P2063I	63	3/4"	125	64,5	M12	1,07
389.P2663I		1"				1,05
389.P3363I		1"1/4				1,00
389.P4063I		1"1/2				0,98
389.P5063I		2"				0,95
389.P2075I	75	3/4"	136	70	M16	1,32
389.P2675I		1"				1,30
389.P3375I		1"1/4				1,25
389.P4075I		1"1/2				1,23
389.P5075I		2"				1,20
389.P2090I	90	3/4"	146	77	M16	1,28
389.P2690I		1"				1,25
389.P3390I		1"1/4				1,20
389.P4090I		1"1/2				1,18
389.P5090I		2"				1,15
389.P2011I	110	3/4"	164	87	M16	1,33
389.P2611I		1"				1,31
389.P3311I		1"1/4				1,26
389.P4011I		1"1/2				1,24
389.P5011I		2"				1,05
389.P2012I	125	3/4"	178	94,5	M16	1,35
389.P2612I		1"				1,33
389.P3312I		1"1/4				1,28
389.P4012I		1"1/2				1,26
389.P5012I		2"				1,23
389.P2014I	140	3/4"	194	102	M16	1,47
389.P2614I		1"				1,45
389.P3314I		1"1/4				1,40
389.P4014I		1"1/2				1,38
389.P5014I		2"				1,35
389.P2016I	160	3/4"	213	112	M16	1,55
389.P2616I		1"				1,53
389.P3316I		1"1/4				1,48
389.P4016I		1"1/2				1,46
389.P5016I		2"				1,43
389.P2020I	200	3/4"	252	132	M16	1,69
389.P2620I		1"				1,67
389.P3320I		1"1/4				1,62
389.P4020I		1"1/2				1,60
389.P5020I		2"				1,57

LP389

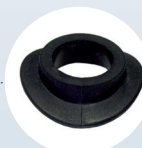
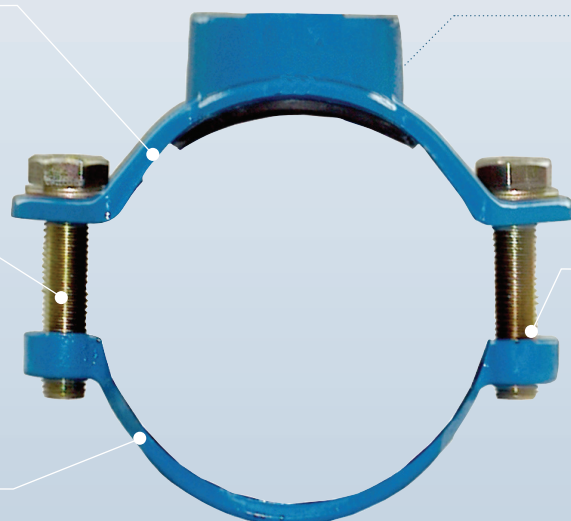
Large tolerance tapping saddle with BSP threaded outlet

For rigid pipes - DN40 to 300

Guaranteed leakproofness between saddle and pipe thanks to the safety gasket in the outlet

Easy assembling with two screws only.

Anti-corrosion, 300µm epoxy coating



Dedicated security seal made by HUOT

Female threaded lug = only 1 wrench needed. No galling risk. Available with SS screws

Size indication on the saddle's lower half without outlet
Torque check by means of a torque wrench - torque indication on the label

PRODUCT

- Optimises the **mechanical resistance** to tightening
- **Perfect adhesion** between the saddle's contact sections and the pipe
- No **metal sealing ring** needed

FOCUS | GASKET DETAIL LP389



Dedicated seal, made by HUOT
Moulded gasket, centred in the collar

FOCUS | LP389 CONCEPT

CONTACT CROSSBARS

Improved installation safety thanks to the contact crossbars which spread the tightening forces over the whole saddle



Applications - Please contact us for compatibility

PE80 PN16	PVC PN16 and 25	PE100 PN16	PVC BO	Ductile cast iron
Please consult us for pipes of feeble thickness.				Grey cast iron
				Steel and coated steel
				Fibre cement

Saddles halves	ductile cast iron according - NF EN 1563
Outlet	BSP thread according to NF EN ISO 228-1
Gasket	NF EN 681-1 rubber - for fluid temperatures below 40°C
Screws	A4 (316) stainless steel
Coating	epoxy, average thickness 300 micron

EPOXY
300
micron

SAFETY
HEEL

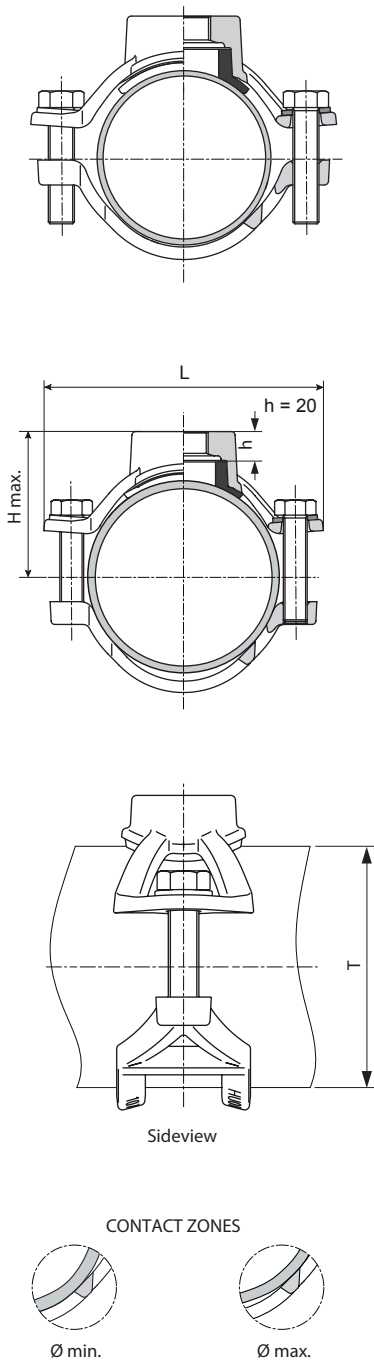
PRESSURE
16
BAR

ONLY ONE
WRENCH
x1

Strength test to HUOT specifications: 150Nm. Leakproof and depressurization test according to NF EN 12842 with bolts tightened at 30 and 50 Nm. Corrosion resistance test according to NF EN ISO 9227. Test certificates in accordance with current standards are available on request.

Large tolerance tapping saddle with BSP threaded outlet

For rigid pipes - DN40 to 300



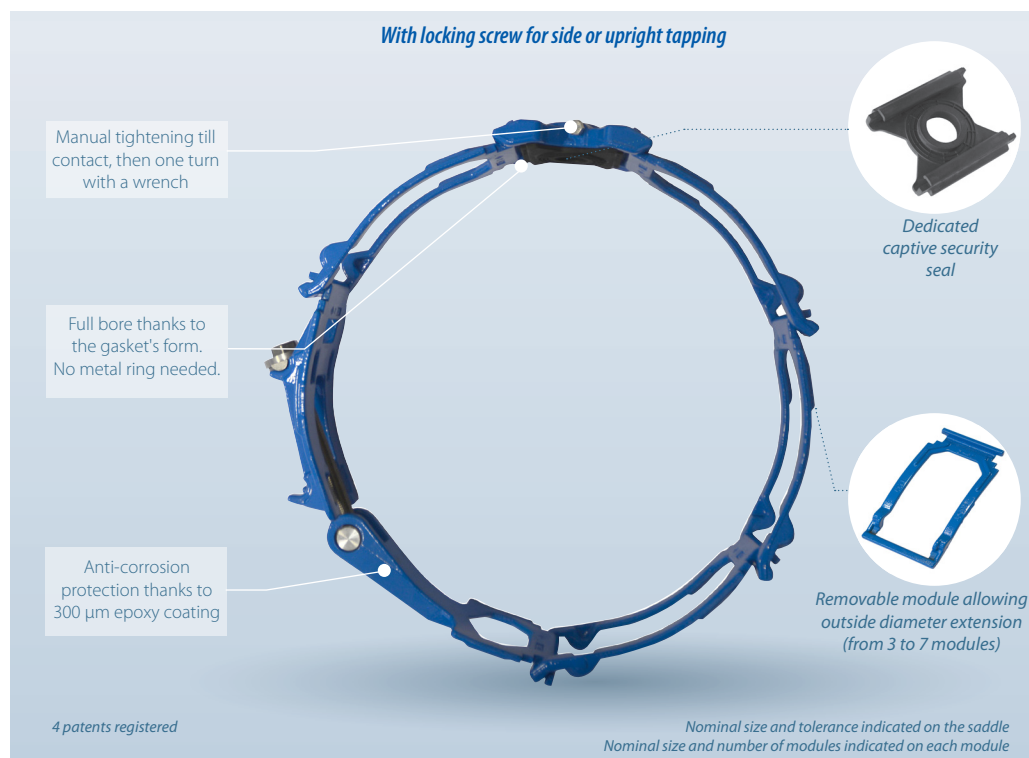
Code	DN	Thread Ø (mm)	T Range O.D. (mm)	L (mm)	H max. (mm)	Galvanized Screw-Size	Weight (kg)
389.2640I	40	1"	48-60	138	58	M16	0,93
389.3340I		1"1/4					0,88
389.2650I		1"					1,06
389.3350I		1"1/4					1,26
389.4050I	50	1"1/2	59-71	146	68,5	M16	1,21
389.5050I		2"					1,09
389.2665I		1"					1,33
389.3365I		1"1/4					1,26
389.4065I	65	1"1/2	69-88	150	76	M16	1,03
389.5065I		2"					1,10
389.2680I		1"					1,41
389.3380I		1"1/4					1,34
389.4080I	80	1"1/2	88-109	164	86,5	M16	1,31
389.5080I		2"					1,17
389.26100I		1"					1,91
389.33100I		1"1/4					1,41
389.40100I	100	1"1/2	107-128	188	96	M16	1,38
389.50100I		2"					1,27
389.26125I		1"					1,57
389.33125I		1"1/4					1,52
389.40125I	125	1"1/2	132-152	212	108	M16	1,45
389.50125I		2"					1,32
389.26150I		1"					1,71
389.33150I		1"1/4					1,64
389.40150I	150	1"1/2	158-182	241	123	M16	1,59
389.50150I		2"					1,46
389.26175I		1"					1,73
389.33175I		1"1/4					2,08
389.40175I	175	1"1/2	192-207	267	135,5	M16	1,73
389.50175I		2"					1,73
389.26200I		1"					2,30
389.33200I		1"1/4					2,25
389.40200I	200	1"1/2	217-234	294	149	M16	2,25
389.50200I		2"					2,08
389.26225I		1"					2,64
389.33225I		1"1/4					2,64
389.40225I	225	1"1/2	240-267	327	165,5	M16	2,64
389.50225I		2"					2,64
389.26250I		1"					2,71
389.33250I		1"1/4					2,71
389.40250I	250	1"1/2	270-288	348	176	M16	2,71
389.50250I		2"					2,46
389.26275I		1"					2,69
389.33275I		1"1/4					2,99
389.40275I	275	1"1/2	292-311	371	187,5	M16	2,99
389.50275I		2"					2,69
389.26300I		1"					3,24
389.33300I		1"1/4					3,12
389.40300I	300	1"1/2	311-336	396	200,5	M16	3,24
389.50300I		2"					3,24

MP98

Extra large tolerance tapping saddle

For rigid pipes OD 334 to 650 mm

SERVICE CONNECTIONS



PRODUCT

- ▶ Rationalises the saddle's structure
- ▶ Optimizes the **tightening strength**
- ▶ **Perfect adhesion** between the saddle and the pipe
- ▶ In upright tapping configuration, the valve is locked by **tightening the SS outlet screw**
- ▶ **4 patents** registered

FOCUS | HUOT SADDLE AND SERVICE COCK DETAIL



FOCUS | DESIGN OF MP98

Quick hook with butterfly washer
Stainless steel bolt



Applications - Please contact us for compatibility

PE80 PN16

PVC PN16 and 25

PE100 PN16

Ductile cast iron
Grey cast iron
Steel and coated steel
Fibre Cement

Modules	ductile cast iron GJS - NF EN 1563
Outlet	metric female thread according ISO 965 : - small outlet M40x3 - large outlet M55x3
Gasket	NF EN 681-1 rubber - for fluid temperatures below 40°C
Locking screw	A4 (316) stainless steel hex screw
Bolt	A4 (316) stainless steel
Coating	epoxy, average thickness of 300 micron

Strength test to HUOT specifications : 120 Nm. Leakproof and depressurization test according to NF EN 12 842 with bolts tightened at 30 and 50 Nm for small boss M40x3 and to mechanical stop for large boss M55x3. Corrosion resistance test according to NF EN ISO 9227. Test certificates in accordance with current standards are available on request.

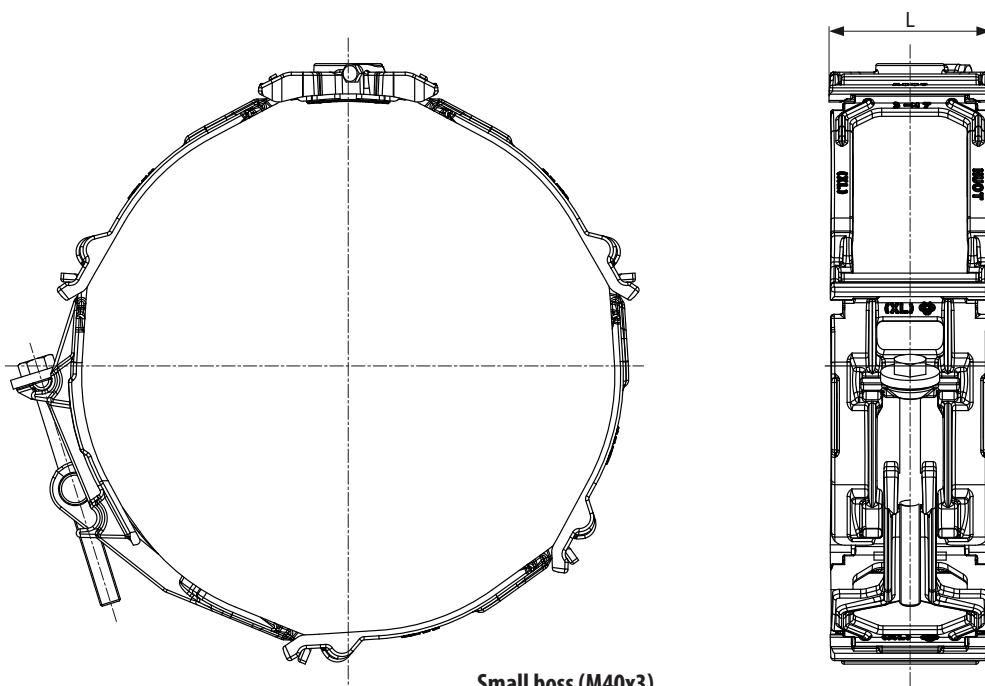
EPOXY
300
micron

SAFETY
HEEL

PRESSURE
16
BAR

ONLY ONE
WRENCH
x1

Extra large tolerance tapping saddle For rigid pipes OD 334 to 650 mm



Small boss (M40x3)

Code	MP98 Size	T Range OD (mm)		L (mm)	Number of Modules	Visserie Taille	Weight (kg)
		Min.	Max.				
98.40XL3	XL	334	392	123,5	3	M16	5,43
98.40XL4	XL	392	463	123,5	4	M16	6,08
98.40XL5	XL	463	533	123,5	5	M16	6,73
98.40XL6	XL	533	600	123,5	6	M16	7,38
98.40XL7	XL	600	650	123,5	7	M16	8,03

Large boss (M55x3)

Code	MP98 Size	T Range OD (mm)		L (mm)	Number of Modules	Visserie Taille	Weight (kg)
		Min.	Max.				
98.55XL3	XL	334	392	123,5	3	M16	5,60
98.55XL4	XL	392	463	123,5	4	M16	6,24
98.55XL5	XL	463	533	123,5	5	M16	6,89
98.55XL6	XL	533	600	123,5	6	M16	7,54
98.55XL7	XL	600	650	123,5	7	M16	8,19

For BSP threaded outlets 1/2" to 2", please contact us.

Code	MP98 Size	Number of modules		Weight (kg)
		Min.	Max.	
98.MXL	XL	3	7	0,68

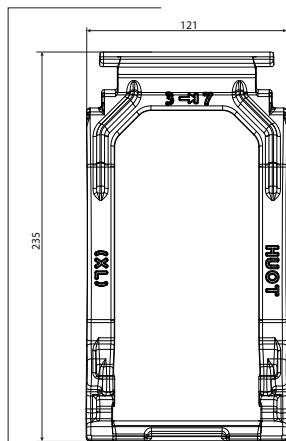
INSTALLATION
ADVICE



INSTALLATION
VIDEOS



Module (98.MXL)



LP389

Large tolerance blanking saddle

For rigid pipes - DN40 to 300

Torque check by means of a torque wrench - torque indication on the label

Pipe blanking

Anti-corrosion 300µm epoxy coating

Saddle-shaped gasket

Female threaded lug = Only 1 wrench needed. No galling risk. Available with SS screws

PRINCIPLE OF LARGE TOLERANCE CONNECTION : SADDLE DN = FOR ALL PIPE TYPES OF THE SAME DN
TOLERANCE INDICATION ON THE LOWER HALF OF THE SADDLE

PRODUCT

- **Rationalizes** the saddle's structure
- Optimizes the **tightening strength**
- **Perfect adhesion** between the saddle's contact sections and the pipe

FOCUS | GASKET DETAIL LP389



Dedicated seal, made by HUOT
Moulded gasket, centred in the collar

FOCUS | LP389 CONCEPT

CONTACT CROSSBARS

Improved installation safety thanks to the contact crossbars which spread the tightening forces over the whole saddle



Applications - Please contact us for compatibility

PE80 PN16

PVC PN16 and 25

PE100 PN16

PVC B0

Ductile cast iron
Grey cast iron
Steel and coated steel
Fiber cement

Please consult us for pipes of feeble thickness.

Saddle halves	ductile cast iron according NF EN 1563
Outlet	blank
Gasket	NF EN 681-1 rubber – for fluid temperatures below 40°C
Screws	A4 (316) stainless steel
Coating	epoxy, average thickness 300 micron

Strength test to HUOT specifications: 150Nm. Leakproof and depressurization test according to NF EN 12842 with bolts tightened at 30 and 50 Nm.
Corrosion resistance test according to NF EN ISO 9227. Test certificates in accordance with current standards are available on request.

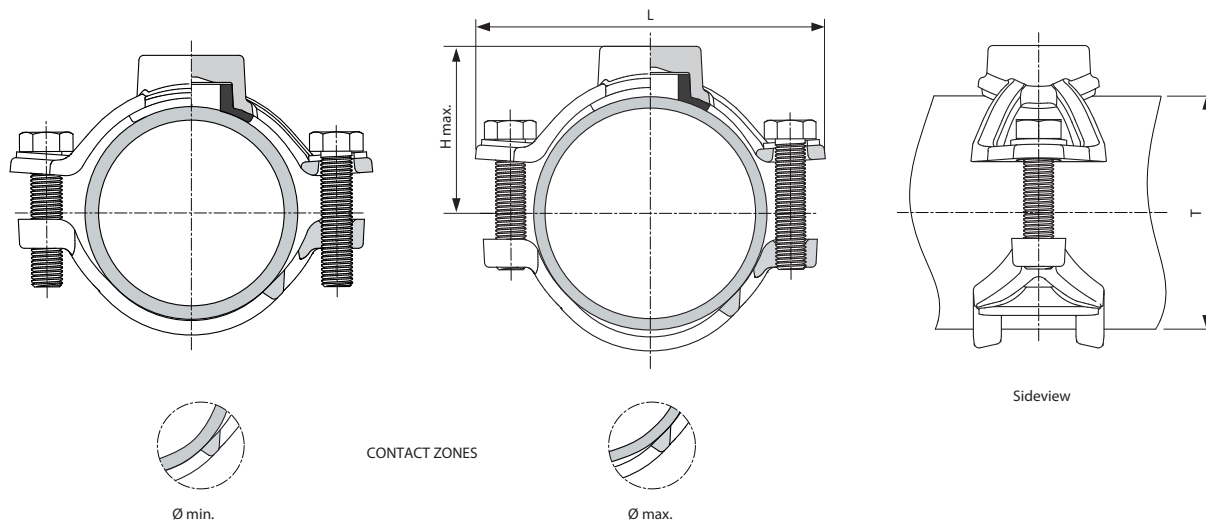
EPOXY
300
micron

SAFETY
HEEL

PRESSURE
16
BAR

ONLY ONE
WRENCH
x1

Large tolerance blanking saddle For rigid pipes - DN40 to 300



Code	DN	T Range O.D. (mm)		L (mm)	H (mm)	Screw Size	Weight (kg)
		Min.	Max.				
389.40I	40	48	60	138	58	M16	1,04
389.50I	50	59	71	146	68,5	M16	1,48
389.65I	65	69	88	150	76	M16	1,45
389.80I	80	88	109	164	86,5	M16	1,51
389.100I	100	107	128	188	96	M16	1,60
389.125I	125	132	152	212	108	M16	1,67
389.150I	150	158	182	241	123	M16	1,84
389.175I	175	192	207	267	135,5	M16	2,24
389.200I	200	217	234	294	149	M16	2,45
389.225I	225	240	267	327	165,5	M16	2,55
389.250I	250	270	288	348	176	M16	2,79
389.275I	275	292	311	371	187,5	M16	2,71
389.300I	300	311	336	396	200,5	M16	3,24

2 new videos :

Assembling a HUOT tapping saddle and service cock



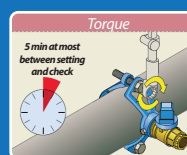
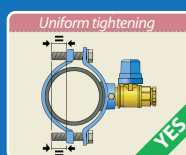
View at huot.fr

- LP saddle + 5402
- P saddle + 5402

INSTALLATION TIPS

VISUAL INSPECTION

Screw ends must be of equal length
> tightening check immediately after setting
with a **torque wrench** (pipe creep distorts the measurement)
> **If necessary, tighten again**



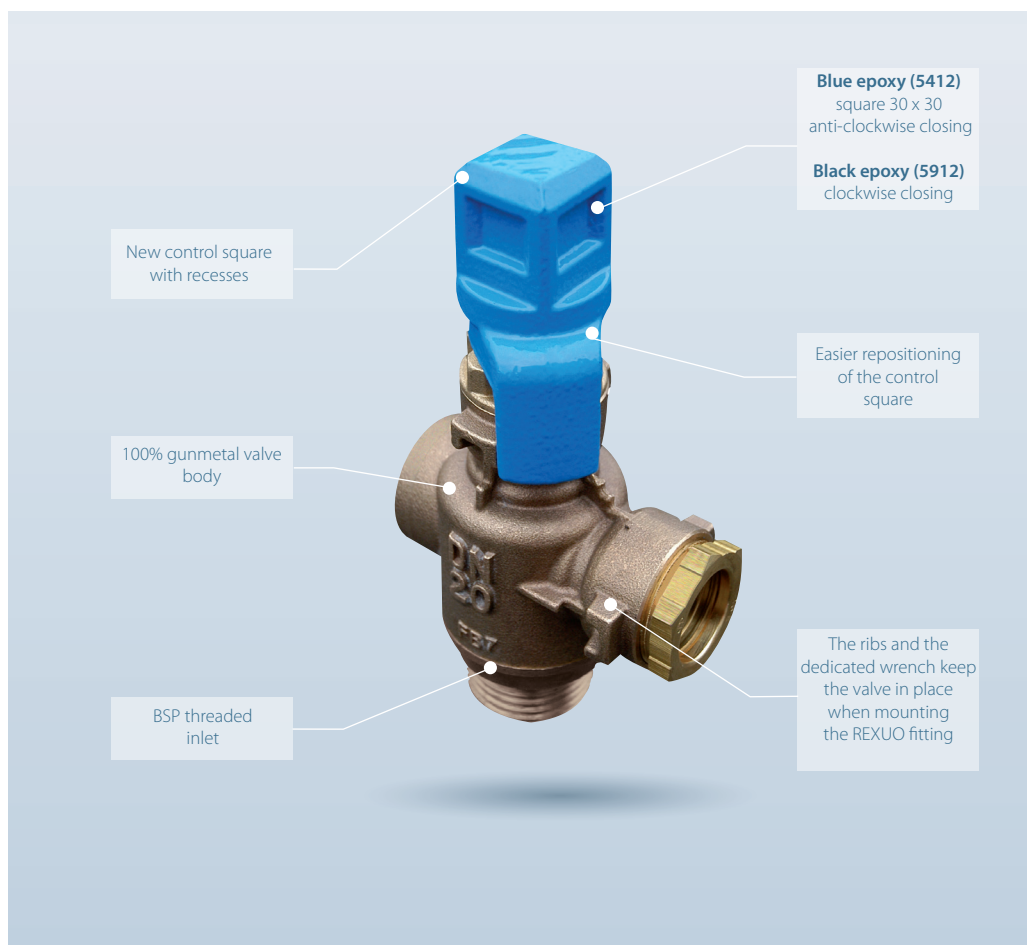
SE 5412
SE 5912

5402.C
5488

YACUO - Gunmetal universal tapping valve with REXUO fitting

1/4 turn valve - BSP threaded inlet - 1" to 2"

SERVICE
CONNECTIONS



PRODUCT

- **Universal** service cock for collective trenches and congested urban networks
- Very resistant **bronze valve body**
- 1/4 turn valve with **massive ball obturator**
- The square valve control is easily mounted thanks to **the automatic pin guide** in the ball
- Designed and offered for sale in **1984**
- **REXUO** outlet fitting with **snap-on packing** (see overleaf for the product codes)
- For upright and lateral tapping, easy manual **repositioning of the control square**
- Individually packed in plastic bags

5488

EMBASUO
For YACUO

Colour :
all blue



- Easy and quick to fit
- No intrusion of **external elements**
- **No tools** needed

5402.C

YACUO wrench
One side for all YACUO square control
diameters, the other side for REXUO
fittings O.D. 25 and 32 mm

Tightening/
loosening
of the YACUO
control

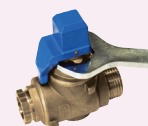


Tightening/
loosening
of the REXUO
fitting

- **Comfortable handling**, perfect tightening
- **Wrench guiding** on the pipe



REXUO pattern printed
on the wrench =
easy tightening



For all control diameters

Body	gunmetal NF EN 1982
Ball	solid nickel plated brass ball NF EN 1216X
Seat	PTFE
Control	Brass parts NF EN 1216X / cast iron square control GJS - NF EN 1563 with epoxy coating
Inlet	BSP thread - NF EN ISO 228-1
Outlet	Rexuo compression fitting, brass NF EN 1216X/NF EN 1982
Wrench	nickel / chrome plated steel

Tightness test of valve body and obturator to ISO 5208 PN25. Rexuo fitting test: Internal pressure tightness test to ISO 3458, internal depression tightness test and required characteristics to ISO 3459. Traction resistance test to ISO 3501, internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates made according to standards in force are available on request.

100%
GUNMETAL
BODY

**LARGE
GASKET**

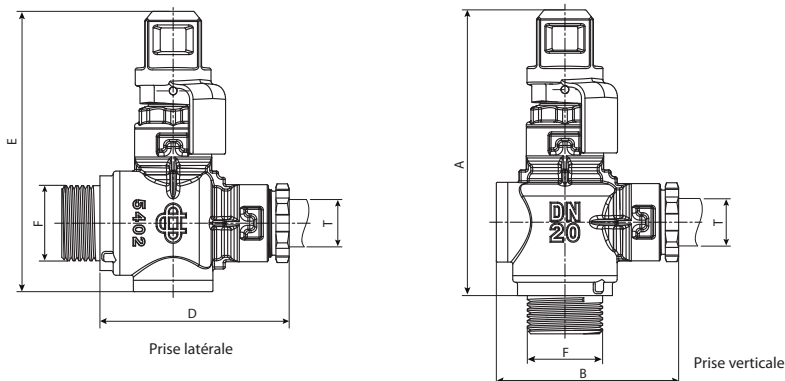
**PRESSURE
16
BAR**

**PRESSURE
180°
VALVE ROTATION**

YACUO - Gunmetal universal tapping valve with REXUO fitting

1/4 turn valve – BSP threaded inlet – 1" to 2"

5412 - SE5412/SE5912 Yacuo



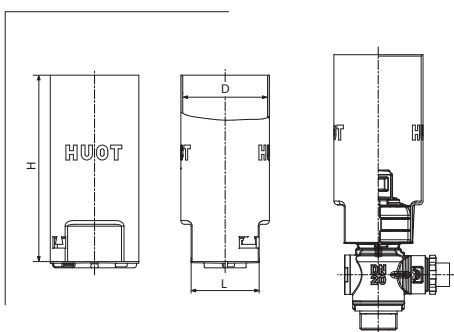
Code		DN	F (Thread)	Outlet ø (mm)	ø Bit * (mm)	A (mm)	B (mm)	D (mm)	E (mm)	Weight (kg)	
Anti-clockwise closing	Clockwise closing										
5412.25SE26	5912.25SE26	20	1"	25	20	150	96	100	148	1,62	E
5412.32SE26*	5912.32SE26*	20	1"	32	20	150	131	134	148	1,91	E
5412.32SE33	5912.32SE33	25	1 1/4"	32	24	194	116	145	164	2,53	E
5412.40SE33*	5912.40SE33*	25	1 1/4"	40	24	194	158	187	164	2,91	E
5412.40SE40	5912.40SE40	32	1 1/2"	40	30	217	140	175	182	4,63	E
5412.50SE40	5912.50SE40	32	1 1/2"	50	30	217	188	223	182	4,47	E
5412.50SE50	5912.50SE50	40	2"	50	38	234	167	201	199,5	5,12	E
5412.63SE50*	5912.63SE50*	40	2"	63	38	234	225	256	199,5	6,25	E

Valves with a snap-on packing are marked by this logo **E**

*with adaptor kit 9402/K

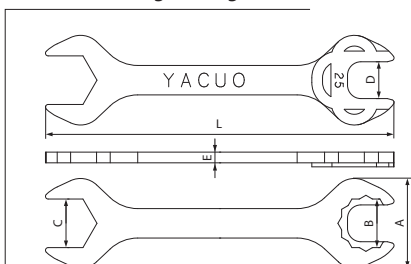
Valves 1 1/4", 1 1/2" and 2" are equipped with a male reducer ref.1410R

5488 - Embase for Yacuo



Code	DN	D (mm)	BASE			Weight (kg)
			L (mm)	H (mm)		
5488.20	20	90	73	200		0,18
5488.25	25	90	105	200		0,25
5488.32	32	90	105	200		0,25
5488.40	40	90	105	200		0,25

5402/C - Yacuo tightening wrench

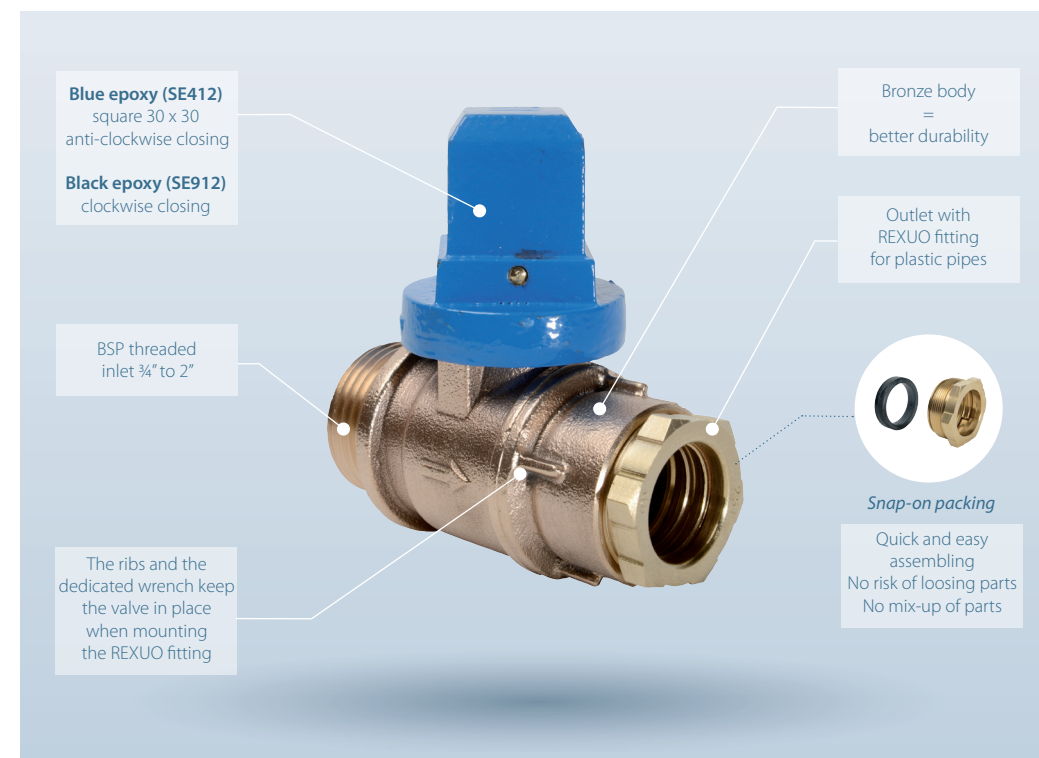


Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	L (mm)	Weight (kg)
5402.C25SE	67	36	36	27,5	8	260	0,48
5402.C32SE	80	45	36	35	8	267	0,52

SE 412
SE 912

SPHERUO - Side tapping service cock with REXUO outlet

1/4 turn valve - BSP threaded inlet - 1" to 2"

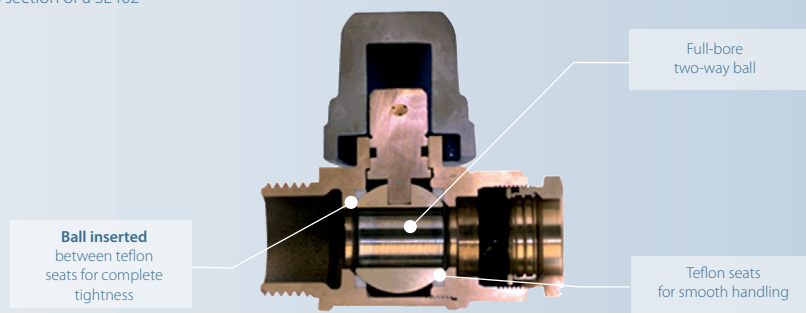


PRODUCT

- **Universal** service cock for collective trenches and congested urban networks
- 1/4 turn valve with **massive ball obturator**
- Bronze body for **greater strength**
- The ribs on the valve body guarantee efficient **REXUO** tightening thanks to the dedicated wrench
- **REXUO** outlet fitting with **snap-on packing** (see overleaf for the product codes)
- Individually packed in plastic bags

FOCUS | LEAKPROOF HUOT PRODUCTS

Cross section of a SE402



9486

EMBASUO
Protective setting for SPHERUO service cocks and PVC extension pipes DN20 to DN40



- Easy to fit with two snap-on parts
- No intrusion of **external elements**
- No **tools** needed

Body	bronze NF EN 1982
Nipple	bronze NF EN 1982 - brass NF EN 1216X/NF EN 1982
Ball	solid nickel plated brass ball NF EN 1216X
Seat	PTFE
Control	brass stem NF EN 1216X with O-ring / cast iron square handle EN - GJL - NF EN 1561 with epoxy coating
Inlet	BSP male thread NF EN ISO 228-1
Outlet	Rexuo compression fitting, brass NF EN 1216X/NF EN 1982

EMBASUO	PE
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Tightness test of valve body and obturator to ISO 5208 PN25. Rexuo fitting test: Internal pressure tightness test to ISO 3458, internal depression tightness test and required characteristics to ISO 3459. Traction resistance test to ISO 3501, internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates made according to standards in force are available on request

**100%
GUNMETAL
BODY**

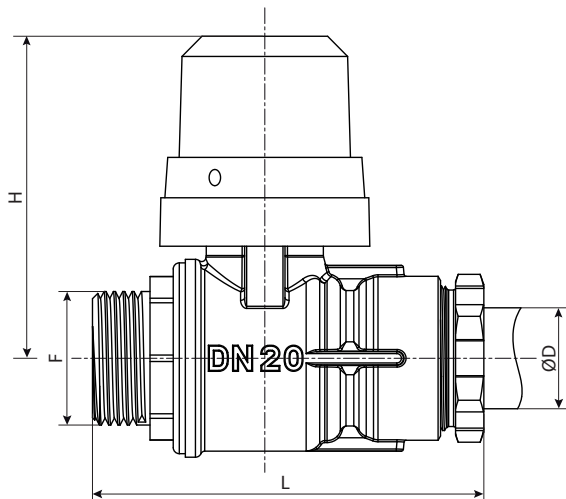
**CONTROL
PROTECTION
WITH
EMBASUO**

**PRESSURE
16
BAR**

SPHERUO - Side tapping service cock with REXUO outlet

1/4 turn valve – BSP threaded inlet – 1" to 2"

SE412/SE912 - Spheruo

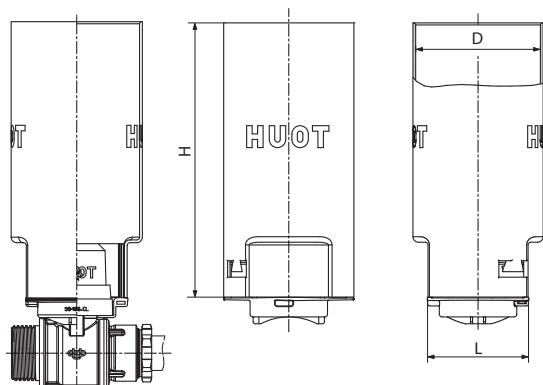


Code		DN	F (Thread)	D (mm)	L (mm)	H (mm)	Ø Bit *	Weight (kg)	
Anti-clockwise closing	Clockwise closing								
9412.25SE26	9912.25SE26	20	1"	25	97	80	20	1,11	E
9412.32SE26	9912.32SE26	25	1"	32	114	85	20	1,55	E
9412.32SE33	9912.32SE33	25	1"1/4	32	117	85	27	1,62	E
9412.40SE40	9912.40SE40	32	1"1/2	40	139	92	32	2,24	
9412.50SE40	9912.50SE40	32	1"1/2	50	201	100	32	4,17	
9412.50SE50	9912.50SE50	40	2"	50	160	100	38	3,85	
9412.63SE50	9912.63SE50	40	2"	63	225	100	38	4,71	E

Valves with a snap-on packing are marked by this logo **E**

*: Ø bit with pilot drill

9486 - Embasuo



Code	D (mm)	L (mm)	H (mm)	Weight (kg)
9486.	90	73	200	0,11

9402.K_EQ

REXUO kit with electrofusion sleeve

DN 20 and 25 - PE pipe outlet 25 and 32 mm

Factory assembled,
tested and completely
covered

Heat shrinkable
sleeve



Electrofusion
connection

PRODUCT

- Replaces the standard REXUO fitting
- No additional parts or material needed
- Large gasket ensuring long-term leakproofness
- Quick and safe assembly
- Electrofusion fitting

FOCUS | SPHERUO CONNECTION DETAIL



Self-sealing connection
between fitting and
valve

HUOT saddle

HUOT tapping valve



+



IMMEDIATE LEAKPROOFNESS
= No oakum, nor joint compound needed
ROTATION 180°
for alignment of cock and service connection

FOCUS | YACUO CONNECTION DETAIL



Self-sealing connection
between fitting and
valve

HUOT saddle

HUOT tapping valve



+



IMMEDIATE LEAKPROOFNESS
= No oakum, nor joint compound needed
ROTATION 180°
for alignment of cock and service connection

Gasket

rubber EN 681-1, for fluid temperatures below 40°C

Fitting

PE for potable water NPT 54-063, brass parts NF EN 1216X / NF EN 1982

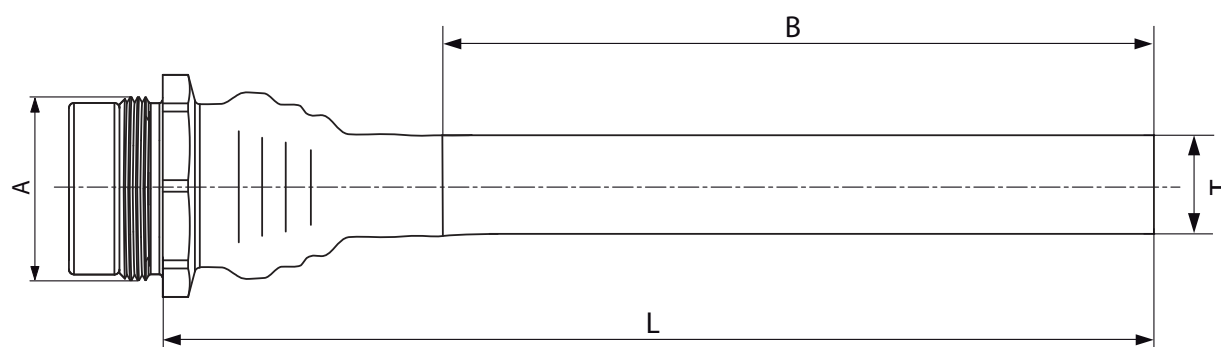
**LARGE
GASKET**



**PRESSURE
16
BAR**

Test certificates made according to standards in force are available on request.

REXUO kit with electrofusion sleeve
DN 20 and 25 - PE pipe outlet 25 and 32 mm



Code	A Fitting DN (mm)	T O.D (mm)	L (mm)	B (mm)	Weight (kg)
9402.K25EQ	25	25	325	250	0,37
9402.K25GEQ	25	32	350	250	0,60
9402.K32EQ	32	32	340	250	0,52

402
902

SPHERUO - Gunmetal service valve for side tapping with flanged outlet

1/4 turn ball valve - Metric threaded male inlet - DN20 to DN40

Blue epoxy
square 30 x 30 (402) :
anti-clockwise
closing
Black epoxy (902)
clockwise closing

Gunmetal body
= better durability

Metric threaded
inlet
(40x300 or 55x300)

Female threaded outlet
with epoxy coated
swivelling flange

PRODUCT

- ▶ Service valve for **house connections** or **insertion flowmeters**
- ▶ 1/4 turn valve with **massive ball**
- ▶ Gunmetal body for a better **durability**
- ▶ **Immediate water seal** between the valve and HUOT tapping saddles without using additional sealing compound

FOCUS | LEAKPROOF HUOT PRODUCTS

Cross section of a SE402

Ball inserted
between teflon
seats for complete
tightness

Full-bore
two-way ball

Teflon seats
for smooth handling

9486

EMBASUO
Protective setting for SPHERUO
service cocks and PVC
extension pipes
DN20 to DN40



- ▶ Easy to fit with two snap-on parts
- ▶ No intrusion of **external elements**
- ▶ No **tools** needed

Body	Gunmetal NF EN 1982
Nipple	Gunmetal NF EN 1982 - brass NF EN 1216X/NF EN 1982
Ball	solid nickel plated brass ball NF EN 1216X
Seat	PTFE
Control	brass stem NF EN 1216X with O-ring / cast iron square handle EN - GJL - NF EN 1561 with epoxy coating
Inlet	metric thread M40x3 / M55x3 NF ISO 965
Outlet	Epoxy coated steel flange with oblong holes (cf. table)

EMBASUO	PE
---------	----

100%
GUNMETAL
BODY

OVAL EPOXY
COATED FLANGE
300
microns

PRESSURE
16
BAR

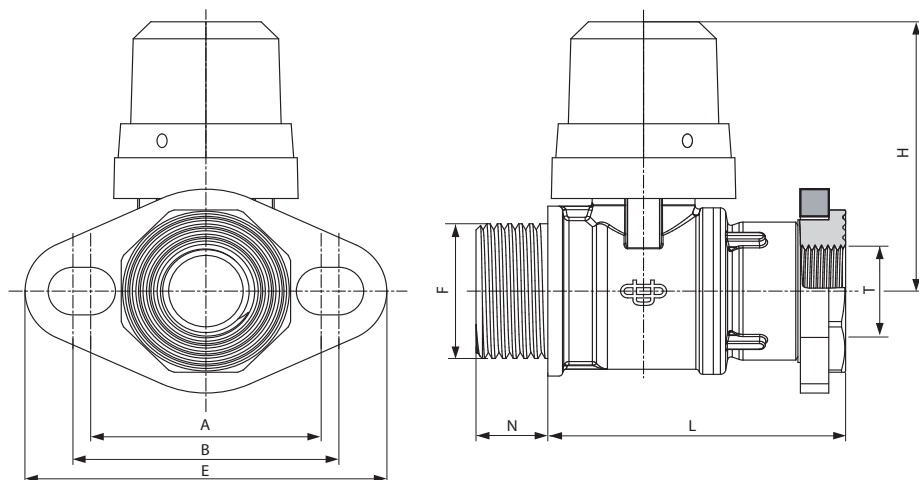
PRESSURE
180°
VALVE ROTATION

Tightness test of valve body and obturator to ISO 5208 PN25. Test certificates made according to standards in force are available on request.

SPHERUO - Gunmetal service valve for side tapping with flanged outlet

1/4 turn ball valve - Metric threaded male inlet - DN20 to DN40

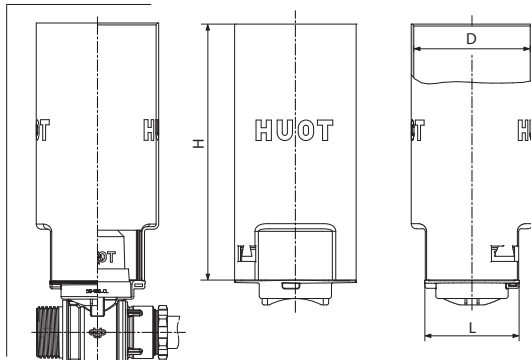
402/902 - Spheruo



Code	DN	F Inlet thread	Centre dis- tance (mm)		T Thread (inch)	E (mm)	ø Recom- mended bolt	H (mm)	L (mm)	N (mm)	ø Bit (mm)	Weight (Kg)
			A	B								
402.20	20	M40x3	65	75	3/4"	102	M10	80	84	20	20	1,43
402.27	25	M40x3	70	80	1"	110	M12	85	94	20	27	2,01
402.27G	25	M55x3	70	80	1"	110	M12	85	105	25	27	2,06
402.32	32	M55x3	90	100	1 1/4"	135	M12	92	115	25	32	2,86
402.40	40	M55x3	95	105	1 1/2"	145	M12	100	131	25	38	4,28

Ref. 902 (clockwise closing) : please contact us

9486 - EmbasUO



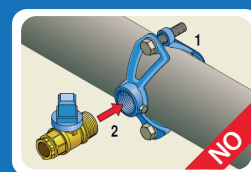
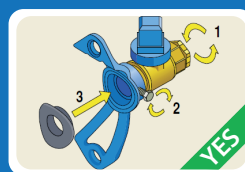
Code	D (mm)	L (mm)	H (mm)	Weight (Kg)
9486.	90	73	200	0,10

INSTALLATION TIPS

INSTALLATION ADVICE



- > Assemble valve to mechanical stop onto tapping saddle first
- > make sure operating square is upright (1/2 turn back allowance)
- > Tighten locking screw (2) by hand and then 1 round with a 13 mm spanner
- > Insert safety gasket inside the boss
- > No sealing compound in threads



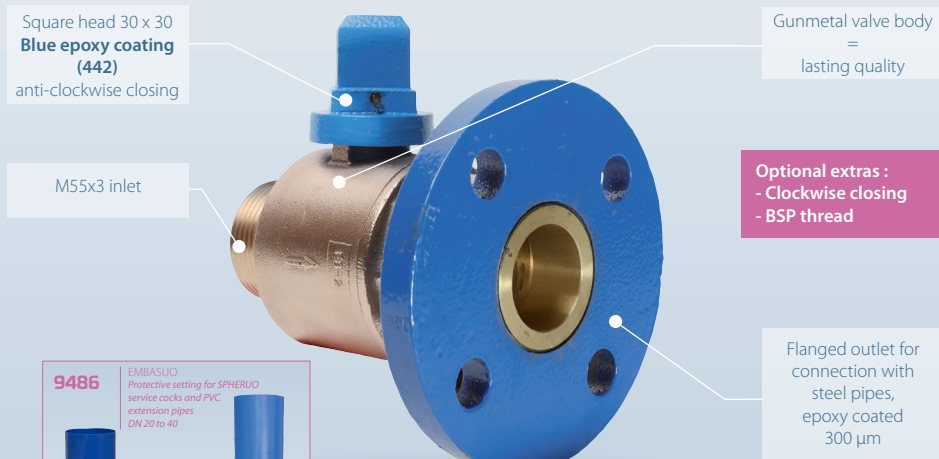
442 3089/MB

SPHERUO - Valve with round flanged outlet - $\frac{1}{4}$ turn ball valve – metric threaded inlet - DN40

Connecting nipple for valves with round flanged outlet (PERFORUO adaptor)

Flange DN40 to 80

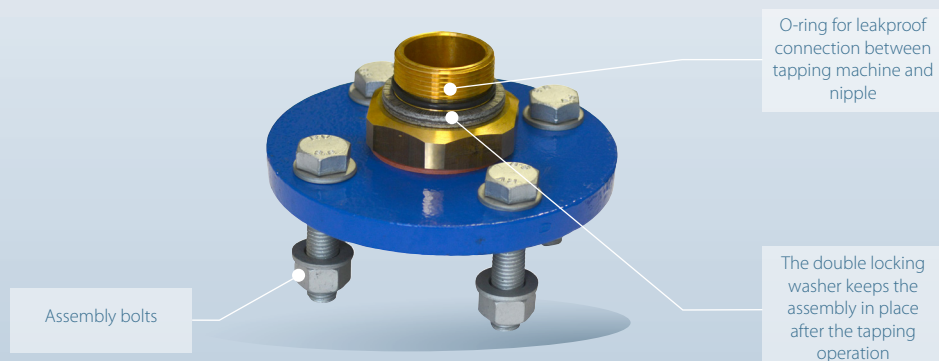
442 | Gunmetal valve for lateral under pressure tapping



PRODUCT

- Under pressure tapping valve for **semi-urban and rural zones**
- $\frac{1}{4}$ turn valve with solid **brass ball**
- Long lasting gunmetal valve body
- **Self-sealing connection** with HUOT metric tapping saddles

3089/MB | Connecting nipple



PRODUCT

- Connecting nipple for valves with flanged outlet
- The flat gasket **guarantees leakproofness** between both flanges
- Complete assembly, bolts included

442

Valve body and nipple	gunmetal to NF EN 1982
Flange nipple	brass to NF EN 1216X
Ball	solid ball, nickel plated brass to NF EN 1216X
Seat	PTFE
Head	brass rod NF EN 1216X with O-ring / square head in cast iron EN-GJL - NF EN 1561 / epoxy coated
Inlet	metric thread M 55 x 3 (55 x 300) NF ISO 965
Outlet	epoxy coated steel flange with 4 holes NF EN 1092 (see table overleaf)

3089/MB

Nipple	brass to NF EN 1216X
Flange	cast iron to EN-GJS-EN1563 or steel. Flange to EN1092 and ISO2531
O ring	NF EN 681-1 rubber
Flange gasket	NF EN 681-1 rubber
Bolts	GEOMET steel 500 grade B 1000 HBS

Tightness test of valve body and obturator to ISO 5208 PN25. Test certificates made according to standards in force are available on request.

**100%
GUNMETAL
BODY**

**CONTROL
PROTECTION
WITH
EMBASUO**

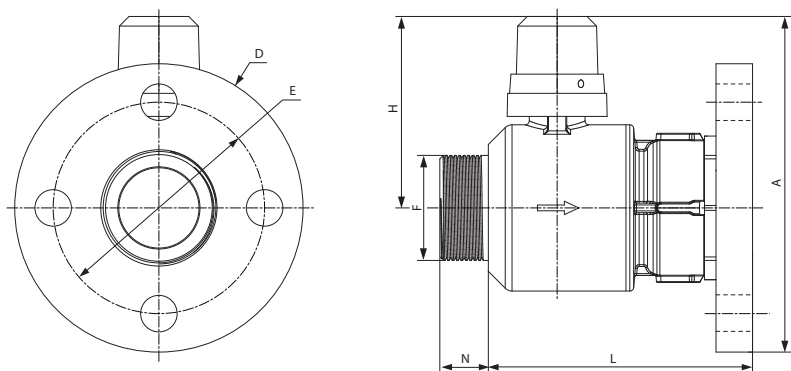
**PRESSURE
16
BAR**

**PRESSURE
180°
VALVE ROTATION**

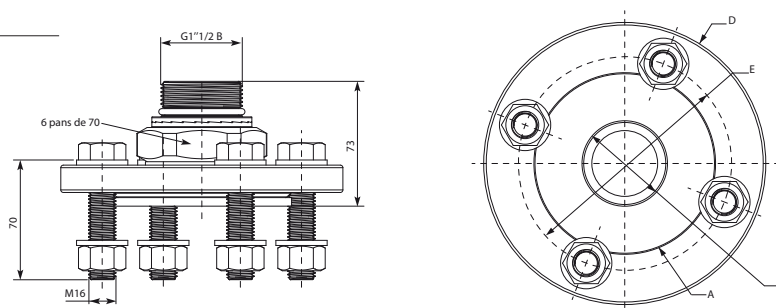
**PRESSURE
10/16
BAR**

**FOR
FLANGES
ACCESSORIES**

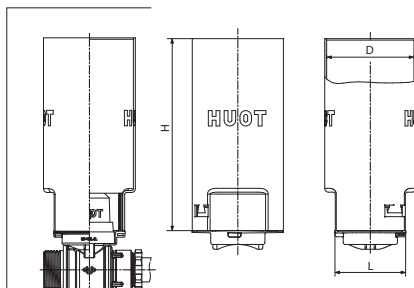
SPHERUO - Valve with round flanged outlet - ¼ turn ball valve – metric threaded inlet - DN40
 Connecting nipple for valves with round flanged outlet (PERFORUO adaptor)
 Flange DN40 to 80

442 - Spheruo


Code	DN	F Inlet thread	Flange PN10/ PN16						A (mm)	H (mm)	L (mm)	N (mm)	Weight (kg)
			DN	D (mm)	E (mm)	Number of holes	ø holes (mm)	ø Recom- mended bolts					
442.40	40	M55x3	40	150	110	4	19	M16	175	100	139	25	5,48
442.4050	40	M55x3	50	165	125	4	19	M16	182	100	139	25	5,95
442.4065	40	M55x3	60/65	185	135/145	4	19	M16	192	100	139	25	6,95
442.4080	40	M55x3	80	205	160	8	19	M16	202	100	139	25	8,35

3089/MB - Connecting nipple


Code	DN Flange	D (mm)	E (mm)	Bolts Number	A (mm)	B (mm)	Weight (kg)
3089.MB40	40	150	110	4	90	40	3,09
3089.MB50	50	165	125	4	105	50	3,62
3089.MB65	60/65	185	135/145	4	115	60	4,10
3089.MB80	80	200	160	8	141	80	5,34

9486 - EmbasU0


Code	D (mm)	L (mm)	H (mm)	Weight (kg)
9486.	90	73	200	0,11

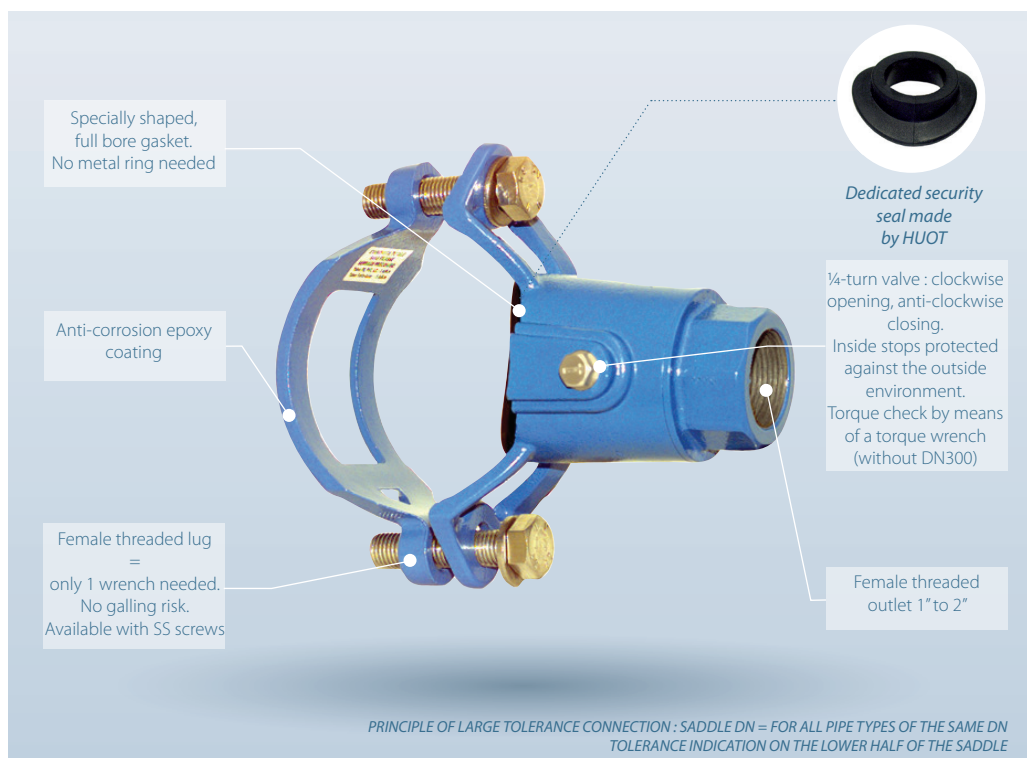
Tapping machine videos
3089 and 4089


Go to huot.fr

- 3089 and 4089, drilling on rigid pipes
- 3089 and 4089, drilling on plastic pipes

LP189

Complete under pressure tapping device (patented) for potable water service connections
For rigid pipes - Saddle DN 65 to 300 - Ball valve DN 20 to 40



PRODUCT

- ▶ No surface box needed
- ▶ Saddle with built-in ball valve
- ▶ Perfect adhesion between the saddle's contact sections and the pipe

FOCUS | LP189 CONCEPT

ONE-PIECE TAPPING DEVICE DN65 TO DN250

- Universal large tolerance tapping saddle for side, upright or diagonal tapping
- Spheruo ball valve
- BSP threaded outlet
- For tapings up to Ø36



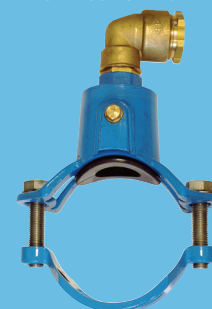
DN300

Assembly tested before dispatch



ASSOCIATED PRODUCT

ONE-USE UPRIGHT TAP



By means of a 90° brass elbow fitting, type 9019/M

Applications - Please contact us for compatibility

PE80 PN16

PVC PN16 and 25

PE100 PN16

Ductile cast iron
Grey cast iron
Steel and coated steel
Fiber cement

Please consult us for pipes of feeble thickness.

Saddle and valve body	ductile cast iron according NF EN 1563
Valve ball	nickel plated brass according NF EN 12164 / NF EN 12168
Ring (seat)	PTFE
Gasket (saddle)	NF EN 681-1 rubber – for fluid temperatures below 40°C
Outlet	female threaded 1" to 2" NF EN ISO 228-1
Screws	A4 (316) stainless steel
Coating	epoxy, average thickness 150 micron

Strength test to HUOT specifications: 150 Nm. Tests of valve body and ball according ISO 5208 standard. Test certificates in accordance with current standards are available on request.

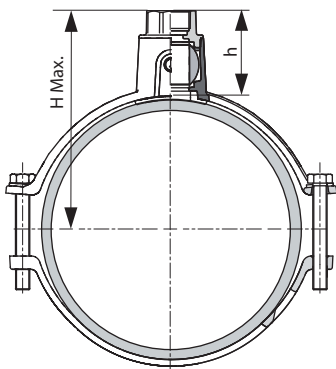
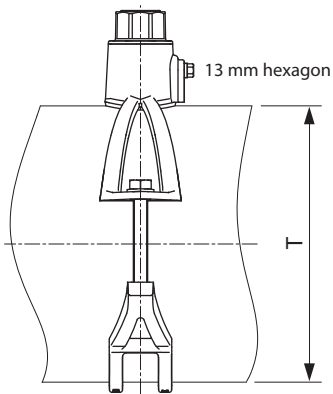
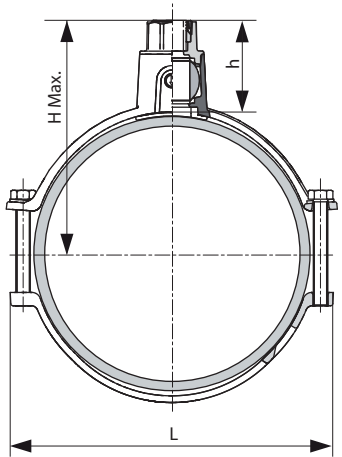
EPOXY
150
micron

SAFETY
HEEL

PRESSURE
16
BAR

ONLY ONE
WRENCH
x1

Complete under pressure tapping device (patented) for potable water service connections
For rigid pipes - Saddle DN 65 to 300 - Ball valve DN 20 to 40



Code	DN Pipe	T Range O.D. (mm)	Female thread (mm)	H (mm)	h (mm)	L (mm)	Bolt Size	Weight (kg)
189.6526I	65	69-88	1"	137	88	150	M16	2,45
189.6533I			1"1/4	148	99			2,55
189.6540I			1"1/2	148	99			2,48
189.6550I			2"	160	111			2,64
189.8026I	80	88-109	1"	144	85	167	M16	2,32
189.8033I			1"1/4	155	97			2,43
189.8040I			1"1/2	155	97			2,36
189.8050I			2"	167	109			2,52
189.10026I	100	107-128	1"	153	85	188	M16	2,40
189.10033I			1"1/4	165	97			2,50
189.10040I			1"1/2	165	97			2,44
189.10050I			2"	177	109			2,60
189.12526I	125	132-152	1"	165	85	212	M16	2,47
189.12533I			1"1/4	177	97			2,58
189.12540I			1"1/2	177	97			2,51
189.12550I			2"	189	109			2,68
189.15026I	150	158-182	1"	180	85	242	M16	2,50
189.15033I			1"1/4	192	97			2,58
189.15040I			1"1/2	192	97			2,52
189.15050I			2"	204	109			2,68
189.17526I	175	192-207	1"	192	85	267	M16	2,99
189.17533I			1"1/4	204	97			3,09
189.17540I			1"1/2	204	97			3,03
189.17550I			2"	216	109			3,19
189.20026I	200	217-234	1"	206	85	294	M16	3,18
189.20033I			1"1/4	218	97			3,28
189.20040I			1"1/2	218	97			3,20
189.20050I			2"	230	109			3,36
189.22526I	225	240-267	1"	222	85	327	M16	3,45
189.22533I			1"1/4	234	97			3,55
189.22540I			1"1/2	234	97			3,73
189.22550I			2"	248	109			3,65
189.25026I	250	270-288	1"	233	85	348	M16	3,53
189.25033I			1"1/4	245	97			3,63
189.25040I			1"1/2	245	97			3,57
189.25050I			2"	257	109			3,70
189.30026I*	300	311-336	1"	246	90	396	M16	3,91
189.30033I*			1"1/4	252	95			4,03
189.30040I*			1"1/2	272	135			4,80
189.30050I*			2"	282	145			6,07

*Assembly tested before dispatch

Maximum tapping diameter DN65 to DN250 :

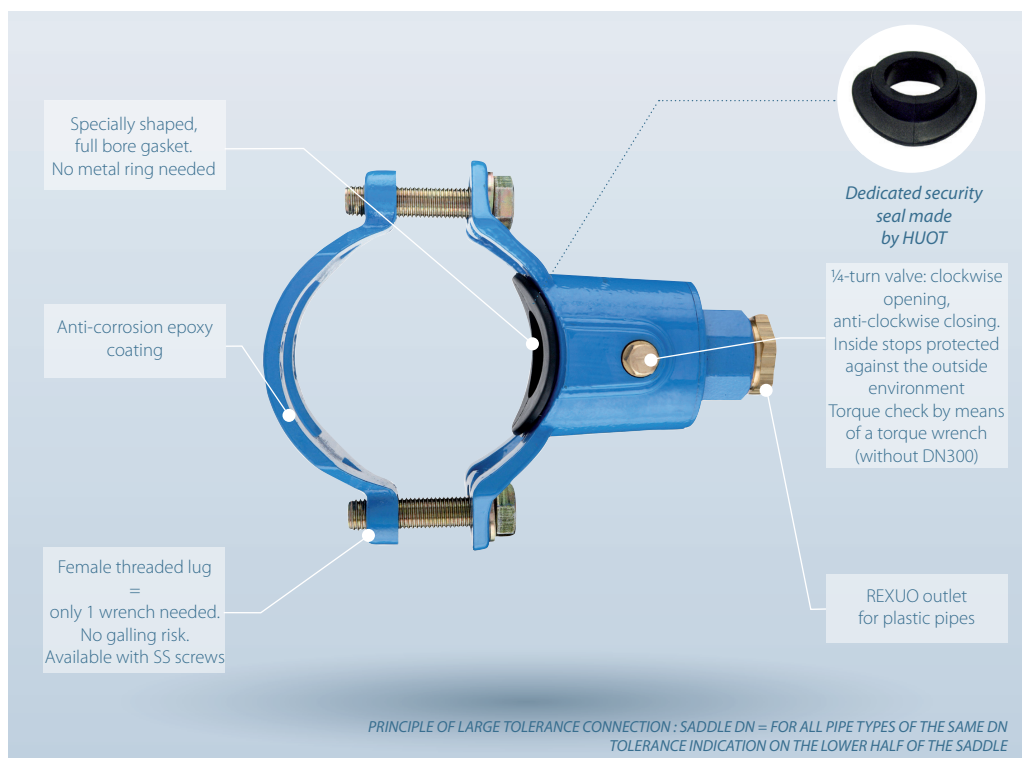
Female thread (inch)	1"	1"1/4	1"1/2	2"
Maximum bore diameter (mm)	25	33	36	36

Maximum tapping diameter DN300 :

Female thread (inch)	1"	1"1/4	1"1/2	2"
Maximum bore diameter (mm)	20	27	32	38

LP9189

Complete under pressure tapping device (patented) for potable water service connections
For rigid pipes - Ball valve DN 40 - Rexuo outlet 25 to 63 mm



PRODUCT

- ▶ No surface box needed
- ▶ Saddle with built-in ball valve
- ▶ **Perfect adhesion** between the saddle's contact sections and the pipe
- ▶ **REXUO** outlet fitting with **snap-on packing** (see overleaf for the product codes)

FOCUS | LP9189 CONCEPT

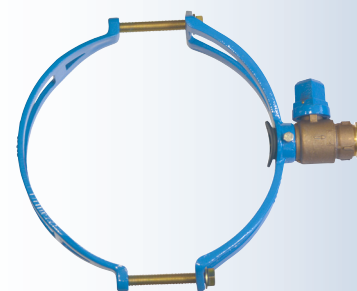
ONE-PIECE TAPPING DEVICE DN65 TO DN250

- Universal large tolerance tapping saddle for side, upright or diagonal tapping
- Spheruo ball valve
- Outlet with Rexuo compression fitting
- For tapings up to Ø36



DN300

Assembly tested before dispatch



Applications - Please contact us for compatibility

PE80 PN16

PVC PN16 and 25

PE100 PN16

Ductile cast iron
Grey cast iron
Steel and coated steel
Fiber cement

Please consult us for pipes of feeble thickness.

Saddle and valve body	ductile cast iron according NF EN 1563
Valve ball	nickel plated brass according NF EN 12164 / NF EN 12168
Ring (seat)	PTFE
Gasket (saddle)	NF EN 681-1 rubber – for fluid temperatures below 40°C
Outlet	Rexuo compression fitting, outer Ø 25 to 63mm, brass NF EN 12164 / NF EN 12168
Screws	A4 (316) stainless steel
Coating	epoxy, average thickness 150 micron

Strength test to HUOT specifications: 150 Nm. Tests of valve body and ball according ISO 5208 standard. REXUO fitting tested according to ISO 3458 – ISO 3459 – ISO 3501 – ISO 3503. Test certificates in accordance with current standards are available on request.

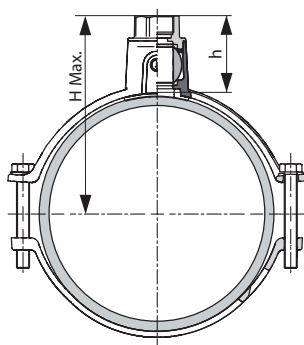
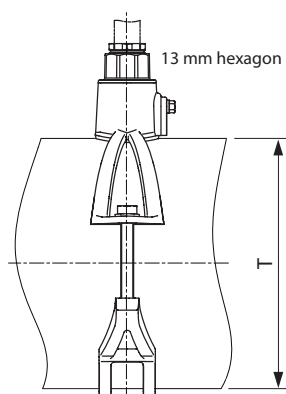
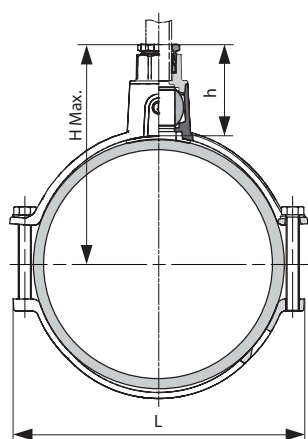
EPOXY
150
micron

SAFETY
HEEL

PRESSURE
16
BAR

ONLY ONE
WRENCH
x1

Complete under pressure tapping device (patented) for potable water service connections
For rigid pipes - Ball valve DN 40 - Rexuo outlet 25 to 63 mm



Code	DN Pipe	T Range O.D. (mm)	ø O.D. (mm)	H (mm)	h (mm)	L (mm)	Bolt Size	Weight (kg)
9189.6525I	65	69-88	25	166	117	150	M16	2,58
9189.6532I			32	170	121			2,74
9189.6540I			40	169	120			3,04
9189.6550I			50	186	137			3,03
9189.6563I			63	231	182			3,44
9189.8025I	80	88-109	25	173	115	167	M16	2,46
9189.8032I			32	178	119			2,62
9189.8040I			40	176	118			2,92
9189.8050I			50	193	134			2,91
9189.8063I			63	239	180			3,33
9189.10025I	100	107-128	25	183	115	188	M16	2,54
9189.10032I			32	187	119			2,70
9189.10040I			40	186	118			3,01
9189.10050I			50	203	134			2,99
9189.10063I			63	248	180			3,41
9189.12525I	125	132-152	25	195	115	212	M16	2,61
9189.12532I			32	199	119			2,77
9189.12540I			40	198	118			3,07
9189.12550I			50	214	134			3,06
9189.12563I			63	260	180			3,47
9189.15025I	150	158-182	25	210	115	242	M16	2,63
9189.15032I			32	214	119			2,79
9189.15040I			40	213	118			3,09
9189.15050I			50	229	134			3,08
9189.15063I			63	275	180			3,42
9189.17525I	175	192-207	25	222	115	267	M16	3,12
9189.17532I			32	226	119			3,28
9189.17540I			40	225	118			3,59
9189.17550I			50	241	134			3,57
9189.17563I			63	287	180			3,98
9189.20025I	200	217-234	25	236	115	294	M16	3,31
9189.20032I			32	240	119			3,47
9189.20040I			40	239	118			3,78
9189.20050I			50	255	134			3,76
9189.20063I			63	301	180			4,18
9189.22525I	225	240-267	25	252	115	327	M16	3,57
9189.22532I			32	256	119			3,74
9189.22540I			40	255	118			4,04
9189.22550I			50	271	134			4,02
9189.22563I			63	317	180			4,44
9189.25025I	250	270-288	25	263	115	348	M16	3,66
9189.25032I			32	267	119			3,82
9189.25040I			40	266	118			4,17
9189.25050I			50	282	134			4,11
9189.25063I			63	328	180			4,53
9189.30025I	300	311-336	25	267	110	396	M16	3,91
9189.30032I			32	267	110			6,00
9189.30040I			40	289	118			4,53
9189.30050I			50	803	142			6,58
9189.30063I			63	339	182			4,84

*Assembly tested before dispatch

Maximum tapping diameter DN65 to DN250

Female thread (inch)	25	32	40	50	63
Maximum bore diameter (mm)	20	25	33	36	36

Maximum tapping diameter DN300

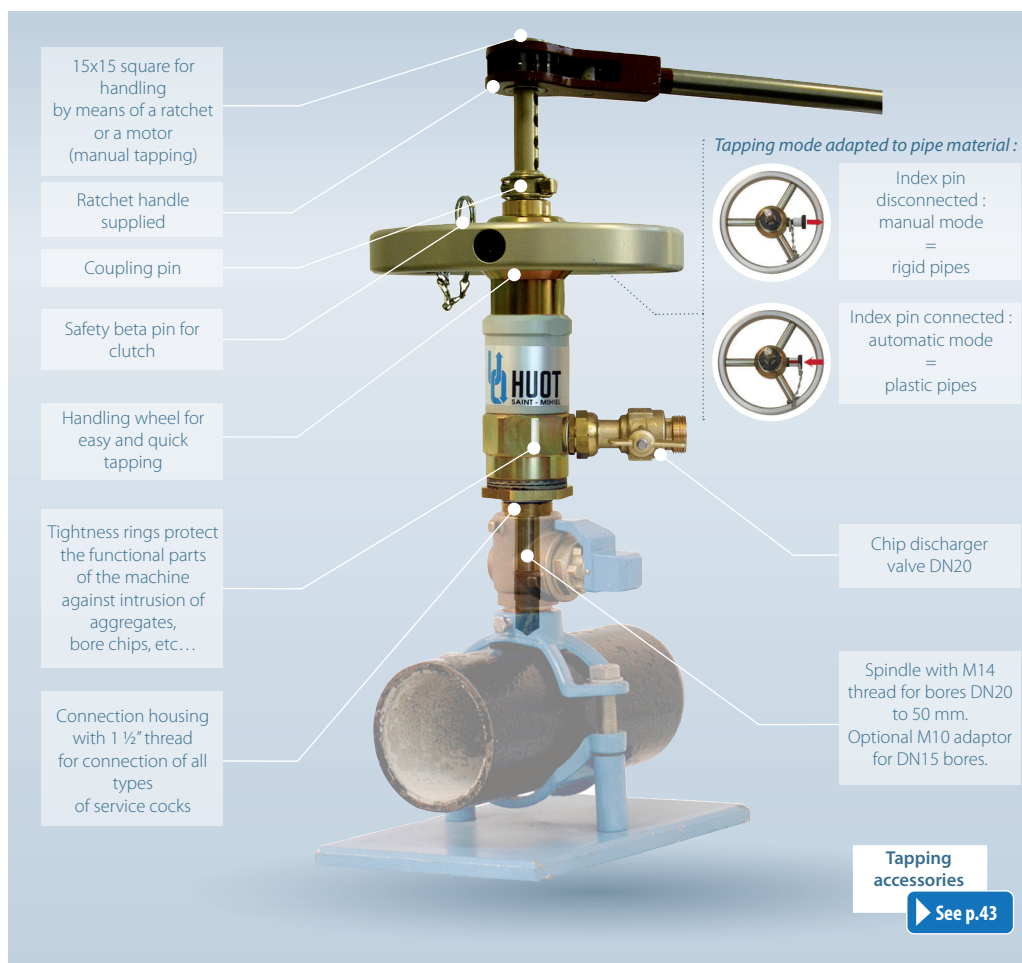
Female thread (inch)	25	32	40	50	63
Maximum bore diameter (mm)	20	27	32	38	38

3489

PERFORUO - Universal under pressure tapping machine

For ¼-turn service cocks – 1" to 2"

SERVICE CONNECTIONS



PRODUCT

- ▶ Upright or side tapping
- ▶ For all ¼-turn service cocks
- ▶ **Chip discharger valve DN20** = no residues in the pipe or meter inlet
- ▶ **2 tapping modes :** manual or automatic
- ▶ Dedicated tools for each pipe material
- ▶ Supplied with storage box

3089.BF

DRILL
For cast iron
pipes



3089.BP

MILLING CUTTER
For plastic
pipes



3089.BA

DRILL
For steel
pipes



- ▶ HUOT proposes tools for every type of pipe material

SERVICE COCK WITH SNAP-ON PACKING



Snap-on
packing



Dedicated nipple
(nickel plated)

- ▶ No risk of losing components / Quick tapping
- ▶ To be used with dedicated nipple

Body, connection housing and wheel spacers	steel
Wheel	aluminium alloy
Screws	cadmium plated steel
Tightness rings	rubber
Seal-carrier, spindle	brass
chip discharger	brass
Ball thrust bearing	steel

Test certificates in accordance with current standards are available on request.

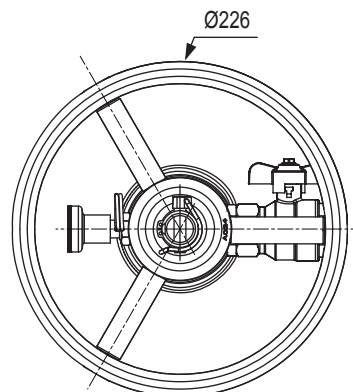
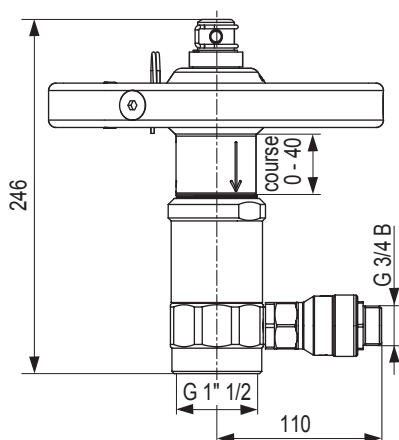
**2
TAPPING
MODES**

**FOR ALL
TYPES OF
SERVICE
COCKS**

**CHIP
DISCHARGER**

**DEDICATED
DRILLS**

PERFORUO - Universal under pressure tapping machine For ¼-turn service cocks – 1" to 2"



3489.C25EN



Tapping machine 1"

Code	Composition
3489.C25EN	including :
	- storage box 3089.BC
	- machine body with feeder 3489.B
	- ratchet wrench square 15 Length 400 2089.BCL
	- tool holder shaft 4088.TP
	- nipple adaptor 3089.MM26
	- HSS drills for cast iron, steel and AC 1" 3089.BA25
	- Holesaw for PE and PVC pipes 1" 3089.BP25
	- Hose fitting 79.B20

3489.CCEN



Tapping machine 1" to 2"

Code	Composition
3489.CCEN	including :
	- storage box 3089.BC
	- machine body with feeder 3489.B
	- ratchet wrench square 15 Length 400 2089.BCL
	- tool holder shaft 4088.TP
	- nipple adaptor 1" 3089.MM26
	- nipple adaptor 1 1/4" 3089.MM33
	- nipple adaptor 1 1/2" 3089.MM40
	- nipple adaptor 2" 3089.MM50
	- HSS drills for cast iron, steel and AC 1" 3089.BA25
	- HSS drills for cast iron, steel and AC 1 1/4" 3089.BA32
	- HSS drills for cast iron, steel and AC 1 1/2" 3089.BA36
	- HSS drills for cast iron, steel and AC 2" 3089.BA40
	- Holesaw for PE and PVC pipes 1" 3089.BP25
	- Holesaw for PE and PVC pipes 1 1/4" 3089.BP32
	- Holesaw for PE and PVC pipes 1 1/2" 3089.BP36
	- Holesaw for PE and PVC pipes 12' 3089.BP40
	- Hose fitting 79.B20

INSTALLATION ADVICE



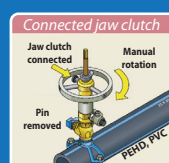
INSTALLATION VIDEOS



INSTALLATION TIPS

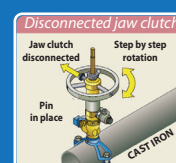
HDPE and PVC pipes

- > Use the PERFORUO system (automatic mode = simultaneous body and drill feed)
- > For these types of pipes only



Other pipe materials

- > Never drill cast iron pipes while the jaw clutch is connected. Step by step operation of feed and rotation



3489

PERFORUO accessories

Drilling equipment for 3489 type tapping machines – 3/4" to 2"

DRILLING EQUIPMENT

4089/TP

Spindle for drill bits
DN20 to 40



Tool holder shaft with holes, threaded M14 and 15x15 square head for use a ratchet handle or a pneumatic motor - Length 450 mm

4089/TP15

Spindle for drill bits
DN15



Tool holder shaft with holes, threaded M10 and 15x15 square head for use a ratchet handle or a pneumatic motor - Length 550 mm

4088/TP

Spindle for drill bits



Tool holder shaft with holes, threaded M14 and 15x15 square head for use a ratchet handle or a pneumatic motor - Length 550 mm

3089/BF

Hard metal bit for cast iron and fibre cement pipes



DN 15 to 25

DN 32 to 50

Stepped bit in DN32, 40 and 50 for prepiercing before boring

Gives small chips which are easily evacuated. Less cutting force needed.

3089/BP

Milling cutter for LDPE, MDPE, HDPE, uPVC, BO-PVC pipes



DN 15 to 40

- The tapered shape avoids the bit to get stuck during withdrawal
- Easy bore chip evacuation by the large spaces between the milling teeth.
- The internal ridges maintain and hold the round chip.

3089/BA

HSS bit for steel pipes



- DN20, 25, 32, 36 and 40

ADAPTOR ELEMENTS

3089/S 3089/MM

Connection nipples with BSP thread 3/4" to 2"



3089/MM - 1" to 2"

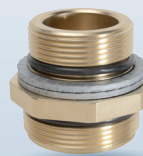


3089/S - 3/4"

Connection nipple for service cocks with female BSP threaded outlet 3/4" to 2"

3089/M

Connecting nipples with Rexuo thread DN20 to 40



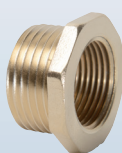
DN 20 to 40

- Connection nipple for DN20 to DN40 valves with Rexuo outlet :
- 2 rings for tightness between machine and valve
 - Double blocking washer to keep the assembly in place during withdrawal after drilling

R7

1410/B 1410/R

Connection nipple

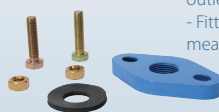


DN 20 to 40

Connection nipple for service cocks with male BSP threaded outlet.

7190

Connection flange



For service cocks with flanged outlet :

- Fitting on tapping machine by means of nipple 3089/MM.

3089/MP

Pneumatic motor

Note : check oil presence in the oiler in order to avoid motor blocking



Picture not binding

Pneumatic motor to be fitted on spindle 3089/TP. Adaptor piece for machine 3089: 73089.AMP. Drilling system for quick, regular and smooth drilling.

WEAR AND REPAIR PARTS

3489/BJ

Set of repair rings



Set of reparation rings and gaskets for Perforuo drilling machine

4089/GT

Pipe pin



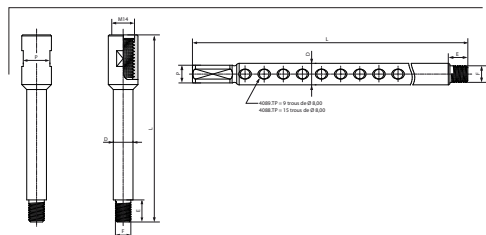
Pin 4089 for pipes

Spindle	steel
Hard metal bit	steel + carbide
Milling cutter and HSS bit	high speed steel

PERFORUO accessories

Drilling equipment for 3489 type tapping machines – 3/4" to 2"

3089/ET - Adapter - 4088/TP-4089/TP - Tool holder shaft



3489 - Wear and repair parts

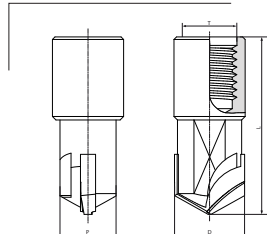
3489.BJ



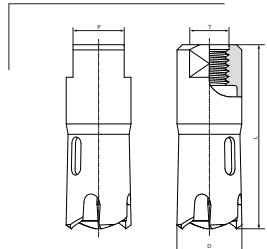
4089.GT



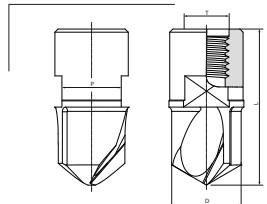
3089/BF - Hard metal bit



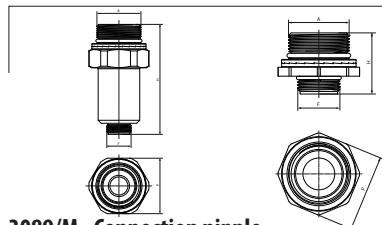
3089/BP - Milling cutter



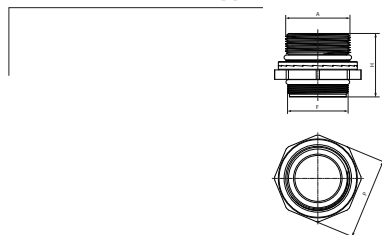
3089/BA - HSS bit



3089/S and 3089/MM - Connection nipple



3089/M - Connection nipple



Code	DN	P / Plats	D (mm)	E (mm)	F Thread	L (mm)	Weight (kg)
3089.ET	15	15	12,5	14	M10	119	0,12
4089.TP	20-25-32-40-50	15	18	15	M14	450	0,79
4088.TP	20-25-32-40-50	15	18	15	M14	550	1,07

Code	Weight (kg)
3489.BJ	0,01
4089.GT	0,21

Code	DN	D (mm)	L (mm)	P / Plats	T Thread	Weight (kg)
3089.BF15	15	14	40	11	M10	0,03
3089.BF20	20	19	47	15	M14	0,05
3089.BF25	25	24	40	19	M14	0,08
3089.BF32	32	30	50	19	M14	0,13
3089.BF36	36	36	50	24	M14	0,19
3089.BF40	40	38	50	24	M14	0,21
3089.BF41	50	41	52	27	M14	0,21
3089.BF50	50	46	52	27	M14	0,28

Code	DN	D (mm)	L (mm)	P / Plats	T Thread	Weight (kg)
3089.BP15	15	14	40	12	M10	0,02
3089.BP20	20	19	45	17	M14	0,03
3089.BP25	25	24	68	19	M14	0,05
3089.BP32	32	30	68	24	M14	0,08
3089.BP36	40	36	68	24	M14	0,11
3089.BP40	40	38	68	24	M14	0,12
3089.BP41	50	41	40	27	M14	0,12
3089.BP50	50	46	40	27	M14	0,17

Code	DN	D (mm)	L (mm)	P / Plats	T Thread	Weight (kg)
3089.BA20	20	19	47	15	M14	0,06
3089.BA25	25	24	50	19	M14	0,08
3089.BA32	32	30	50	19	M14	0,13
3089.BA36	36	36	50	24	M14	0,20
3089.BA40	40	38	50	24	M14	0,21

Code	DN	A (inch)	F (inch)	H (mm)	P / Plats	Weight (kg)
3089.S15	15	1"1/2	3/4"	119	60	0,81
3089.MM26	20	1"1/2	1"	48	60	0,36
3089.MM33	25	1"1/2	1"1/4	50	60	0,37
3089.MM40	32	1"1/2	1"1/2	52	60	0,55
3089.MM50	40-50	1"1/2	2"	67	70	0,69

Code	DN	A (inch)	Service cock outlet	F Thread	H (mm)	P / Plats	Weight (kg)
3089.M20	20	1"1/2	Rexuo 25	M36x1,5	47	60	0,36
3089.M25	25	1"1/2	Rexuo 32	M45x1,5	47	60	0,40
3089.M32	32	1"1/2	Rexuo 40	M55x2,3	54	62	0,48
3089.M40	40	1"1/2	Rexuo 50	M64x2,3	56	72	0,55
3089.M4063	40	1"1/2	Rexuo 63	M80x2,3	58	90	0,72

SE 403
SE 903

SPHERUO - Bronze stop cock with REXUO fitting

¼ turn control – DN 20 to 40 – REXUO outlet 25 to 63 mm

Blue epoxy (9403)
square 30 x 30
anti-clockwise closing

Black epoxy (9903)
clockwise closing

Inlet and outlet
with REXUO
fitting for
plastic pipes

The ribs and the
dedicated wrench keep
the valve in place when
mounting the REXUO
fitting



Bronze body
=
better durability

Inlet and outlet
with REXUO
fitting for
plastic pipes



Snap-on packing

Time saving
No risk of losing
components
No risk of element
inversion

PRODUCT

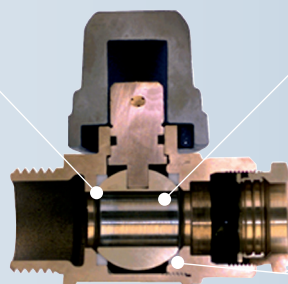
- ▶ Quarter turn stop cock with **massive brass ball**
- ▶ Bronze body for **greater strength**
- ▶ The ribs on the valve body guarantee efficient **REXUO** tightening thanks to the dedicated wrench
- ▶ **REXUO** outlet fitting with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bags

FOCUS | LEAKPROOF HUOT PRODUCTS

Ball inserted
between teflon
seats for complete
tightness

Full-bore
two-way
ball

Teflon
seats for
smooth
handling



Cross section of a SE402

9486

EMBASUO
Protective setting for SPHERUO service
cocks and PVC extension pipes
DN20 to DN40



- ▶ Quick and easy fixing
- ▶ No intrusion of **external elements**
- ▶ No **tools** needed

Body	bronze NF EN 1982
Nipple	bronze NF EN 1982 - brass NF EN 1216X/NF EN 1982
Ball	solid nickel plated brass ball NF EN 1216X
Seat	PTFE
Control	Brass stem NF EN 1216X with O-ring / cast iron square handle EN – GJL – NF EN 1561 with epoxy coating
Inlet/outlet	Rexuo compression fitting, brass NF EN 1216X/NF EN 1982
EMBASUO	PE

100%
GUNMETAL
BODY

LARGE
GASKET

PRESSURE
16
BAR

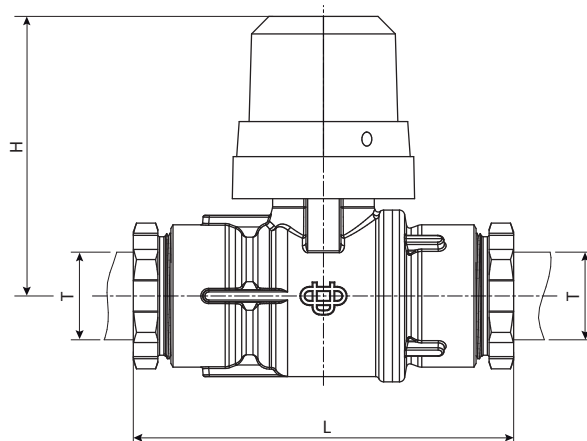
PRESSURE
180°
VALVE ROTATION

Tightness test of valve body and obturator to ISO 5208 PN25. Rexuo fitting test: Internal pressure tightness test to ISO 3458, internal depression tightness test and required characteristics to ISO 3459. Traction resistance test to ISO 3501, internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates made according to standards in force are available on request.

SPHERUO - Bronze stop cock with REXUO fitting

¼ turn control – DN 20 to 40 – REXUO outlet 25 to 63 mm

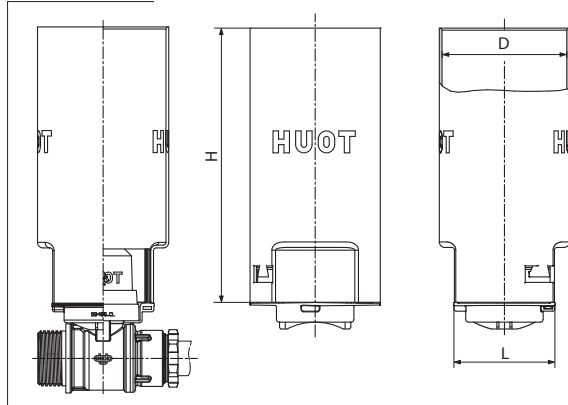
SE403/SE903 - SPHERUO



Code		DN	T Outlet O.D. (mm)	L (mm)	H (mm)	Weight (kg)	
Anti-clockwise closing	Clockwise closing						
9403.25SE	9903.25SE	20	25	108	80	1,22	E
9403.32SE	9903.32SE	25	32	132	85	1,72	E
9403.40SE	9903.40SE	32	40	172,5	92	2,57	E
9403.50SE	9903.50SE	40	50	214	100	3,97	E
9403.63SE	9903.63SE	40	63	329	100	6,22	E

Valves with a snap-on packing are marked by this logo **E**

9486 - EmbasUO

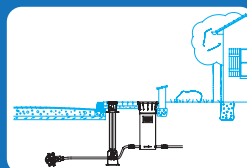
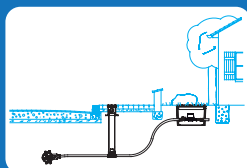


Code	D (mm)	L (mm)	H (mm)	Weight (kg)
9486.	90	73	200	0,11

FURTHER INFORMATION

SERVICE CONNECTION LAYOUT

For specific service connection layouts,
please contact us for technical support



HUOT WIDE RANGE APP



- Allows to find the HUOT product code for a given pipe DN
- 3D product demos
- Product assembly videos
- Entertaining and practical

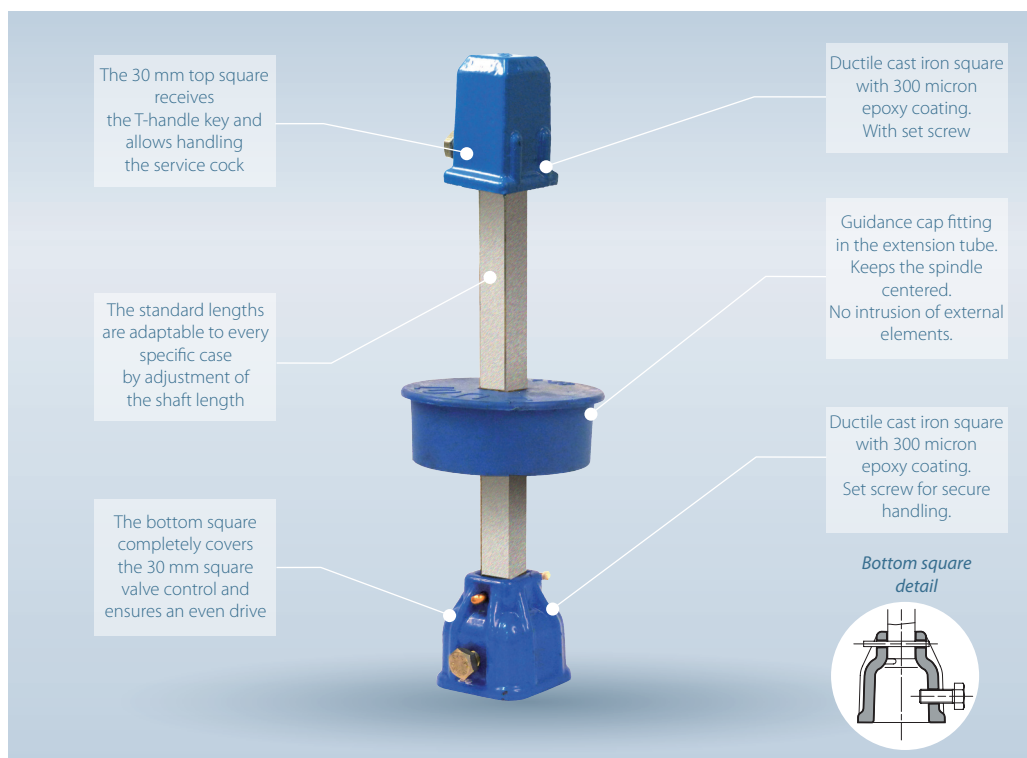
Download the app
for smartphones and tablets
on AppStore or Google Play

87/A

UOBLOC

Valve extension spindle for service and stop cocks

SERVICE CONNECTIONS



PRODUCT

- ▶ Operation transmission system for service cocks
- ▶ **Facilitates service cock control** in case of service connections with surface box
- ▶ **Simple and quick installation**, no special tools needed
- ▶ The centering ring prevents intrusion of external elements
- ▶ Goes on all square control valves

ASSOCIATED PRODUCTS

Wide range or plastic pipe saddles



▶ See p.19 & 21

Service cock



▶ See p.27 & 29

EmbasUO 5486 and 9486



▶ See p.27 & 29

Extension tube



▶ See p.49

Blue cap



▶ See p.49

Surface box



▶ See p.51

PRODUCTS FOR SERVICE CONNECTIONS WITH SURFACE BOX

Shaft	hot galvanized steel NF A 35-503
Top square	ductile cast iron NF EN 1563, epoxy coating
Bottom square	ductile cast iron NF EN 1563, epoxy coating
Square set screws	hex screw M8x20, zinc plated steel NF EN ISO 401X
Centering ring	polyethylene
Pin	copper

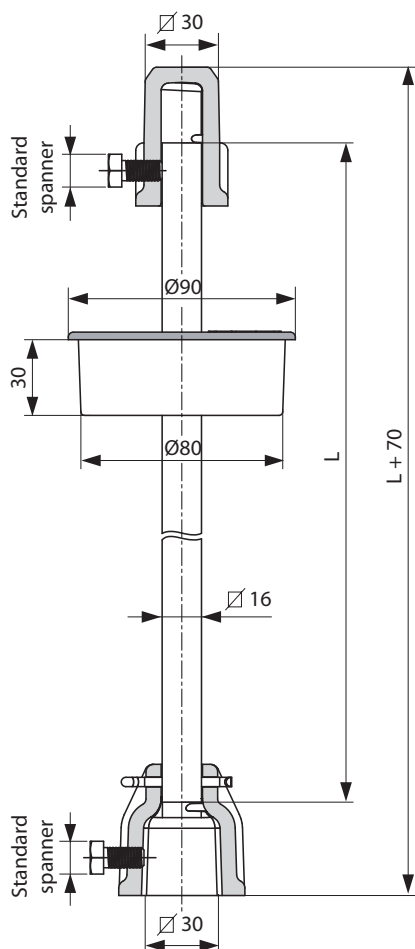
FOR ALL SERVICE COCKS

30 mm SQUARE

AUTOMATIC CENTERING

INSTALLATION WITHOUT SPECIFIC TOOLS

Torsion resistance test : 400 Nm (40 mkg). Test certificates available on request.



Code	L (mm)	Weight (kg)
87.A50	500	1,64
87.A80	800	2,27
87.A100	1000	2,68
87.A120	1200	3,10
87.A150	1500	3,72
87.A200	2000	4,76

Technical leaflets also available on

HUOT.FR

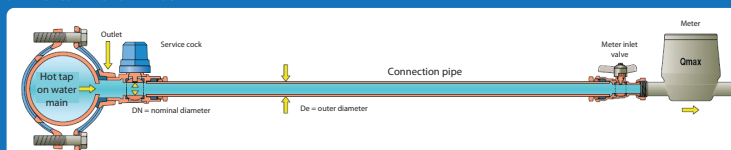


On our website :

- News
- 3D water distribution network
- Distributors
- Technical leaflets in PDF

FURTHER INFORMATION

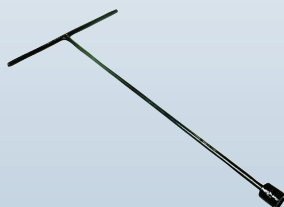
SERVICE CONNECTION LAYOUT



Service connection accessories

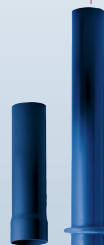
T-wrench – extension tubes and protective hood

87 | T-handle wrench



The wrench allows operating all valves equipped with a 30 x 30 square control from the road level :
 . Service cocks
 . Stop cocks

86/3 | PVC extension tube for surface boxes



Permanent access with a T-handle wrench.

Lower tube with collar allows to stay in position after centering, in particular with plates 86/4-5 or protection hood 86/7.

Upper tube with socket.

86/3-8 | Telescopic extension tube



Permanent access with a T-handle wrench.

The adjustable height prevents risks due to ground level sinking.

For protective hoods and settings codes 86/7SP, 5486 and 9486.

Top section with magnetically locatable chip.

86/8 | Telescopic extension tube with hood



The bottom section protects the service cock against aggregate elements risking inhibiting the valve control. The hole in bottom plate allows use with straight or angled service cocks.

Permanent access with a T-handle wrench.

The adjustable height prevents risks due to ground level sinking.

Top section with magnetically locatable chip.

86/9 | Extension tube with hood



The bottom section covers the service cock.

Permanent access with a T-handle wrench.

86/8BB | Blue cap



Plastic cap fitting easily in the extension tube.

Prevents intrusion of external elements.

ASSOCIATED PRODUCTS

Wide range or plastic pipe saddles



▶ See p.19 & 21

Service cock



▶ See p.27 & 29

EmbasUO 5486 and 9486



▶ See p.27 & 29

UOBLOC



▶ See p.47

Surface box



▶ See p.51

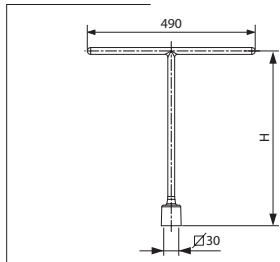
PRODUCTS FOR SERVICE CONNECTIONS WITH SURFACE BOX

T-handle wrench	steel with protective finish
Extension tubes	PVC + zinc plated steel chip
Blue cap	PVC

Service connection accessories

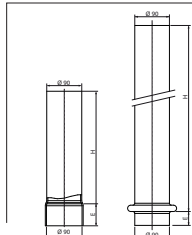
T-wrench – extension tubes and protective hood

87 - T-handle wrench



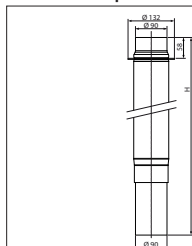
Code	H (mm)	Weight (kg)
87.50	500	3,02
87.100	1000	4,12
87.125	1250	4,77
87.150	1500	4,80
87.175	1750	6,10
87.200	2000	6,30

86/3 - PVC extension tube for surface boxes



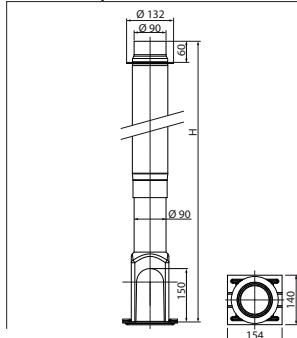
Code	Type	E (mm)	H (mm)	Weight (kg)
86.330	socket joint	54	300	0,44
86.360	flange ring	34	600	0,69

86/3-8 - Telescopic extension tube



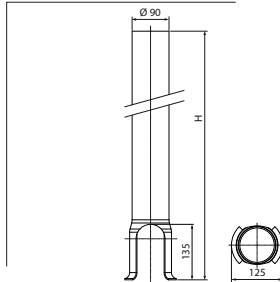
Code	H (mm)	Weight (kg)
86.3650	650-1000	1,93
86.3950	1000-1700	1,93

86/8 - Telescopic extension tube with hood



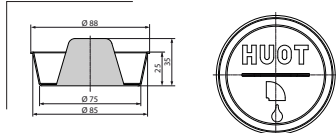
Code	H (mm)	Weight (kg)
86.8	1000-1700	1,93
86.8C	650-1000	1,93

86/9 - Extension tube with hood



Code	H (mm)	Weight (kg)
86.9	850	0,95
86.910	1000	0,95

86/8BB - Blue cap



Code	Weight (kg)
86.8BB	0,05

Surface box and plate

Cylindrical and tapered

86 | Cast iron cylindrical access box

- > This surface box is placed right above the service cock control and consists of :
 - Body with round flange :
 - better hold on mortar bed
 - prevents rising above the ground surface
 - Retractable cover for easy access with a T-handle wrench
 - Security chain supplied with 86.2 and 86.6BE only.
- > Different models for roadway or pavement use (see Technical Specification overleaf).
- > Anti-corrosion surface coating.

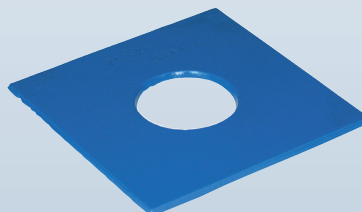


PRODUCT

- Protects against intrusion of aggregate elements which could block the service cock control

86/4-5 | Surface box plate

- > Setting on mortar base.
- > Central hole for extension tube 86/3..



PRODUCT

- Protects against intrusion of aggregate elements which could block the service cock control



ASSOCIATED PRODUCTS

Wide range or plastic pipe saddles



► See p.19 et 21

Service cock



► See p.27 & 29

EmbasUO 5486 and 9486



► See p.27 & 29

UOBLOC



► See p.47

Extension tube



► See p.49

Blue cap



► See p.49

PRODUCTS FOR SERVICE CONNECTIONS WITH SURFACE BOX

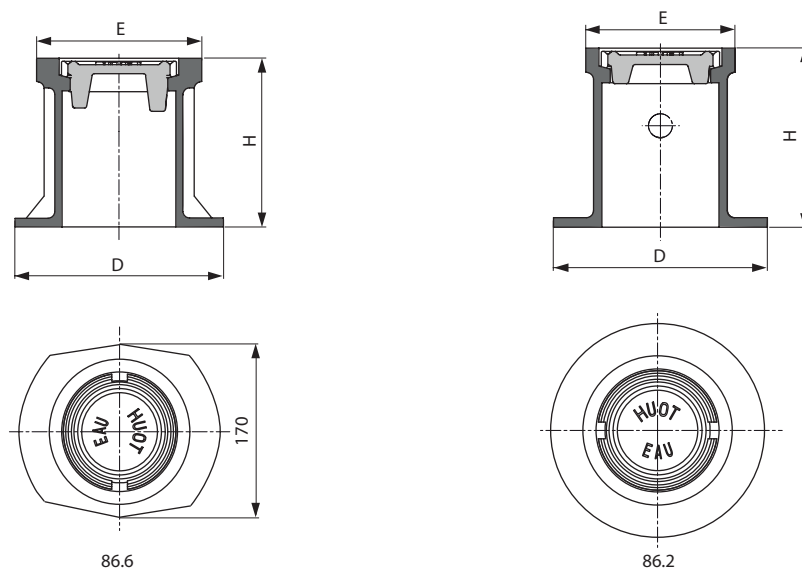
Body and cover	cast iron NF EN 1563
Chain	steel
Access box plate	cast iron NF EN 1561

Test certificates in accordance with standards are available on request.

Surface box and plate

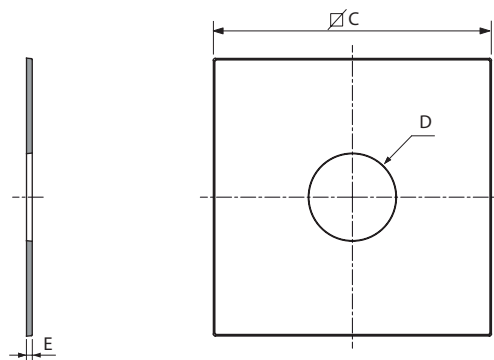
Cylindrical and tapered

86 - Cast iron surface box



Code	Use	Chain	H (mm)	D O.D. (mm)	E O.D. (mm)	Weight (kg)
86.2	roadway	supplied	202	183	131	6,00
86.6	pavement	no	164	201	140	4,50

86/4-5 - Cast iron plate for surface box



Code	C Square (mm)	D O.D. (mm)	E (mm)	Weight (kg)
86.4	290	94	6	2,70
86.5	245	94	7	2,20

HUOT ၁၉၆၁

BRASS FITTINGS

■ REXUO brass compression fittings

SE12	53
SE22	53
SE112	55
SE13	57
SE14	57
SE19	59
SE139	59
SE19/M	61
SE19/T	61
SE139/M	61
SE139/T	61
SE20	63
SE21	63
9214	65
9219	65
SE239	65
SE125	67

■ Fittings and reducers

SE7	69
9402/K	69
SR7	71
SR7/M	71
SR9/B	71
9/B	71
SR207	71

■ REXUO packing, REXUO wrench

SE24	73
REXUO wrench	75
REXUO body wrench	75

■ Connecting elements

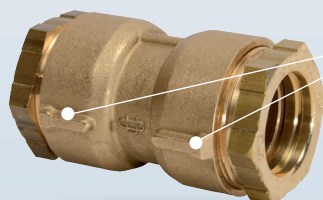
1410/F - 1410/FD - 1410/FM	77
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REXUO coupling

For EN 12201, NF T54-071 PE and EN 1452 standard PVC pipes – O.D. 16 to 63 mm

SE 12 | Straight coupling

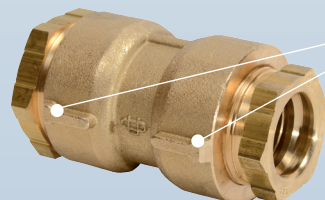
With two REXUO fittings
of the same size –
O.D. 16 to 63 mm



The ribs and the special
wrench keep
the coupling in place
when mounting
the REXUO fittings

SE 22 | Stepped coupling

With two REXUO fittings
of different sizes –
O.D. 25/16 to 63/50 mm



The ribs and the special
wrench keep
the coupling in place
when mounting
the REXUO fittings

+ PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in **plastic bag**

FOCUS | PACKING

SNAP-ON PACKING

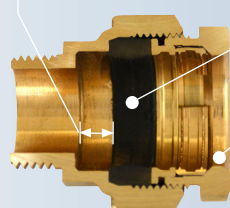
Easy to fit
No risk of losing components
Impossible to mix up elements



FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind
the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable



Pipe guidance
through the
compression
nut

Section of a SE13 fitting

↓ ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings.
No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body

brass NF EN 1216X / NF EN 1982

Packing

Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C
Friction washer and compression ring : brass EN 1216X
Compression nut : male threaded, brass EN 1216X, EN 1982

SE12 and SE22 couplings can be used without pipe inserts :

- On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
- On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
- On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

**LARGE
GASKET**



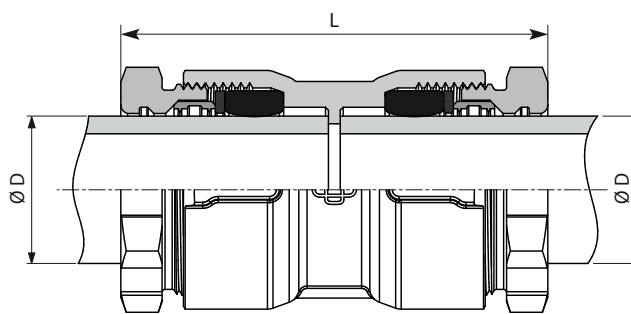
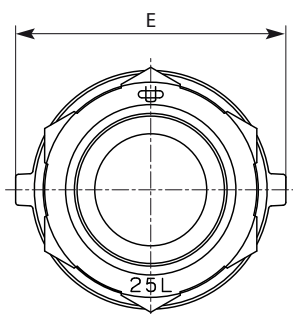
**FULL
BORE**

**WIDE
RANGE
OF AVAILABLE
PRODUCTS**

**PRESSURE
25
BAR**

REXUO coupling

For EN 12201, NF T54-071 PE and EN 1452 standard PVC pipes – O.D. 16 to 63 mm



SE12 - Straight coupling

Code	D (mm)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9012.16	16	68	35	3	0,18
9012.20	20	78	35	3	0,24
9012.25	25	72	46	mechanical stop	0,30 E
9012.32	32	99	52	3	0,53
9012.40	40	115	67	mechanical stop	0,83 E
9012.50	50	144	78	mechanical stop	1,19 E
9012.63	63	171	95	mechanical stop	2,14 E

SE22 - Stepped coupling

Code	D (mm)	D (mm)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9022.2516	25	16	91	35	mechanical stop/3	0,30 E ✓
9022.2520	25	20	73	46	mechanical stop/3	0,33 E
9022.3225	32	25	83	56	mechanical stop	0,40 E
9022.4025	40	25	94	67	mechanical stop	0,53 E
9022.4032	40	32	101	67	mechanical stop	0,63 E
9022.5032	50	32	115	77	mechanical stop	0,84 E
9022.5040	50	40	129	77	mechanical stop	0,97 E
9022.6332	63	32	174	95	mechanical stop/3	2,01 E ✓
9022.6340	63	40	182	95	mechanical stop	2,05 E ✓
9022.6350	63	50	157	95	mechanical stop	1,61 E

E Snap-on packing
✓ Assembly tested before dispatch

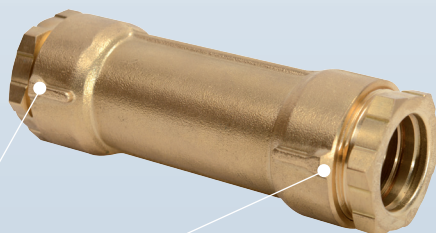


SE112

REXUO repair sleeve

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 63 mm

Repair sleeve with two REXUO compression fittings – O.D. 20 to 63 mm



The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings

PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

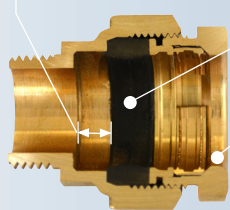
Easy to fit
No risk of losing components
Impossible to mix up elements



FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable



Pipe guidance through the compression nut

Section of a SE13 fitting

ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body	brass NF EN 1216X / NF EN 1982
Packing	Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C Friction washer and compression ring : brass EN 1216X Compression nut : male threaded, brass EN 1216X, EN 1982

SE112 fittings can be used without pipe inserts :

- On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
- On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
- On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

LARGE GASKET



FULL BORE

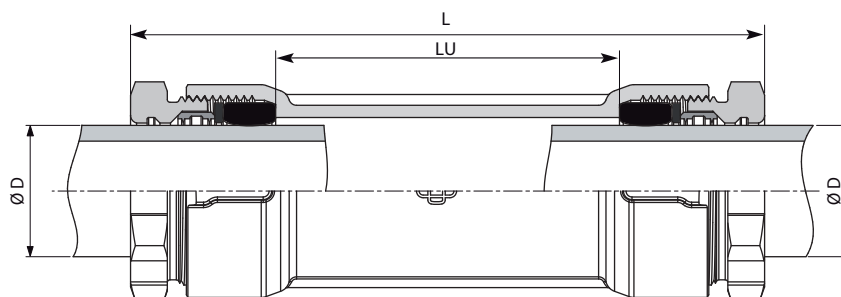
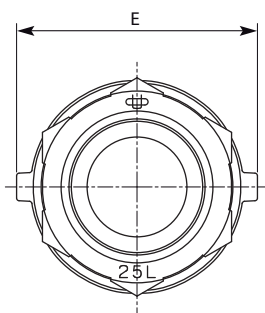
WIDE RANGE OF AVAILABLE PRODUCTS

PRESSURE 25 BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

REXUO repair sleeve

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 63 mm



Metric series

Code	O.D. (mm)	LU (mm)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9112.20	20	62	124	38	3	0,31
9112.25	25	65	121	46	mechanical	0,38
9112.32	32	70	143	57	3	0,69
9112.40	40	74	163	67	mechanical	0,92
9112.50	50	80	191	77	mechanical	1,35
9112.63	63	88	217	95	mechanical	2,13

Reducer fitting

Code	O.D. (mm)	O.D. (mm)	LU (mm)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9112.2532	25	32	65	154	57	mechanical	0,66

 Snap-on packing

 Assembly tested before dispatch

REXUO male and female adaptors

For EN 12201, NF T54-071 PE and EN 1452 standard PVC pipes – O.D. 16 to 63 mm

SE 13 | Male adaptor and reducer fitting

BSP thread - Pipe O.D. 16-63 mm

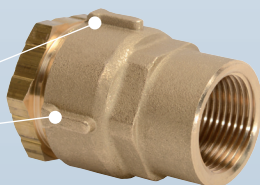
The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



SE 14 | Female adaptor and reducer fitting

BSP thread - Pipe O.D. 16-63 mm

The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

Easy to fit
No risk of losing components
Impossible to mix up elements



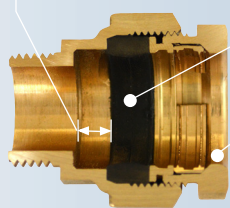
FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut

Section of a SE13 fitting



ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body

Brass EN 1216X / EN 1982

SE13 : BSP male thread ISO 228-1 or male metric thread ISO 965

SE14 : BSP female thread ISO 228-1

Packing

Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C

Friction washer and compression ring : brass EN 1216X

Compression nut : male threaded, brass EN 1216X, EN 1982

SE13 and SE14 fittings can be used without pipe inserts :

- On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
- On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
- On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

LARGE
GASKET



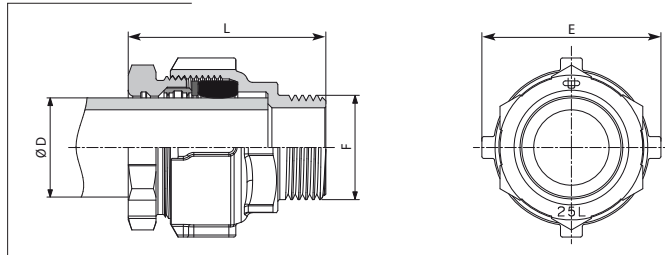
FULL
BORE

WIDE
RANGE
OF AVAILABLE
PRODUCTS

PRESSURE
25
BAR

REXUO male and female adaptors

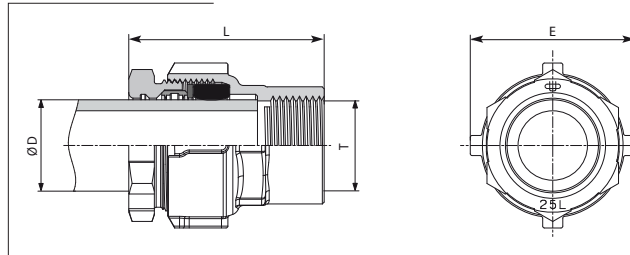
For EN 12201, NF T54-071 PE and EN 1452 standard PVC pipes – O.D. 16 to 63 mm

SE13 - Male adaptor

Metric series

Code	D (mm)	F (Thread)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9013.16	16	3/8"	47	31	3	0,11
9013.20	20	1/2"	52	35	3	0,14
9013.25	25	3/4"	50	45	mechanical	0,18 E
9013.32	32	1"	65	56	3	0,36
9013.40	40	1 1/4"	76	67	mechanical	0,47 E
9013.50	50	1 1/2"	92	77	mechanical	0,68 E
9013.63	63	2"	108	95	mechanical	1,19 E

Reducer fitting

Code	D (mm)	F (Thread)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9013.1615	16	1/2"	49	31	3	0,13
9013.2020	20	3/4"	51	38	3	0,15
9013.2515	25	1/2"	49	45	mechanical	0,16 E
9013.2526	25	1"	52	45	mechanical	0,19 E
9013.3220	32	3/4"	61	56	3	0,33
9013.3233	32	1 1/4"	64	56	3	0,35
9013.4026	40	1"	74	67	mechanical	0,47 E
9013.4040	40	1 1/2"	78	67	mechanical	0,49 E
9013.5033	50	1 1/4"	90	77	mechanical	0,65 E
9013.5050	50	2"	84	77	mechanical	0,65 E
9013.6340	63	1 1/2"	106	95	mechanical	1,18 E

SE14 - Female adaptor

Metric series

Code	D (mm)	T (Thread)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9014.16	16	3/8"	49	30	3	0,11
9014.20	20	1/2"	53	35	3	0,15
9014.25	25	3/4"	53	45	mechanical	0,20 E
9014.32	32	1"	67	56	3	0,34
9014.40	40	1 1/4"	79	67	mechanical	0,47 E
9014.50	50	1 1/2"	93	77	mechanical	0,69 E
9014.63	63	2"	111	95	mechanical	1,27 E

Reducer fitting

Code	D (mm)	T (Thread)	L (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9014.1615	16	1/2"	53	30	3	0,12
9014.2020	20	3/4"	53	38	3	0,16
9014.2515	25	1/2"	52	45	mechanical	0,18 E
9014.2526	25	1"	58	45	mechanical	0,21 E
9014.3220	32	3/4"	64	56	3	0,37
9014.3233	32	1 1/4"	61	56	3	0,36
9014.4026	40	1"	77	67	mechanical	0,49 E
9014.4040	40	1 1/2"	74	67	mechanical	0,53 E
9014.5033	50	1 1/4"	93	77	mechanical	0,77 E
9014.5050	50	2"	88	77	mechanical	0,75 E

Thread side tightness with flat gasket

9014.B25	25	3/4"	48	45	mechanical	0,18 E
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E Snap-on packing

REXUO elbow - 90° and 45° compression fittings

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 63 mm

SE 19 | 90° Elbow

Elbow with two REXUO compression fittings of the same size O.D. 20 to 63 mm

The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



SE 139 | 45° Elbow

Elbow with two REXUO compression fittings of the same size O.D. 20 to 63 mm

The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

Easy to fit
No risk of losing components
Impossible to mix up elements

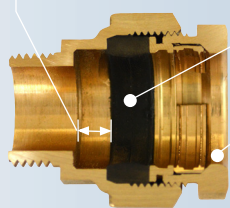


FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut



Section of a SE13 fitting

ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body	brass NF EN 1216X / NF EN 1982
Packing	Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C Friction washer and compression ring : brass EN 1216X Compression nut : male threaded, brass EN 1216X, EN 1982

SE19 and SE139 fittings can be used without pipe inserts :
• On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
• On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
• On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

LARGE
GASKET

FULL
BORE

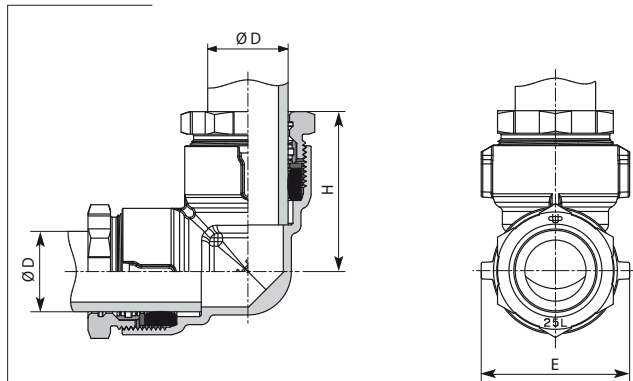
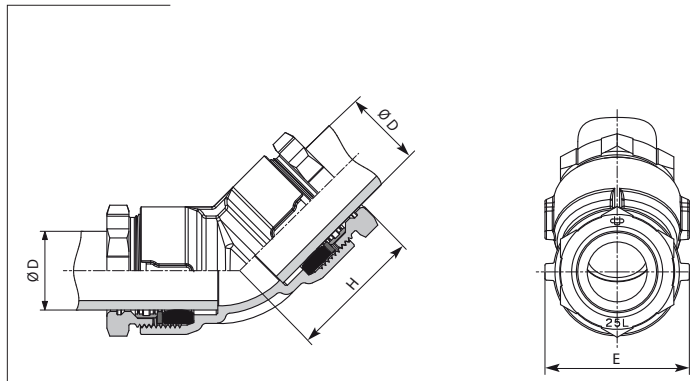
WIDE
RANGE
OF AVAILABLE
PRODUCTS

PRESSURE
25
BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

REXUO elbow - 90° and 45° compression fittings

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 63 mm

SE19 - 90° Elbow

SE139 - 45° Elbow


Code	D (mm)	H (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9019.20	20	48	39	3	0,25
9019.25	25	50	46	mechanical	0,33 E
9019.32	32	59	57	mechanical	0,61 E
9019.40	40	82	67	mechanical	0,81 E
9019.50	50	87	75	mechanical	1,35 E
9019.63	63	118	95	mechanical	2,36 E

E Snap-on packing

Code	D (mm)	H (mm)	E (mm)	Recommended torque (daN.m)	Weight (kg)
9139.25SE	25	42	46	mechanical	0,23 E
9139.32SE	32	50	57	mechanical	0,51 E
9139.40SE	40	66	67	mechanical	0,84 E
9139.50SE	50	82	78	mechanical	1,23 E
9139.63SE	63	98	95	mechanical	2,23 E

INSTALLATION
VIDEO



REXUO elbow - Male and female

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 63 mm

SE 19/M | 90° Male elbow

One end with REXUO compression fitting O.D. 20 to 63 mm, one male threaded end 3/4" to 2"



SE 19/T | 90° Female elbow

One end with REXUO compression fitting O.D. 20 to 63 mm, one female threaded end 3/4" to 2"



SE 139/M | 45° Male elbow

One end with REXUO compression fitting O.D. 32 mm, one male threaded end 1"



SE 139/T | 45° Female elbow

One end with REXUO compression fitting O.D. 25 mm, one female threaded end 3/4"



PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

Easy to fit
No risk of losing components
Impossible to mix up elements



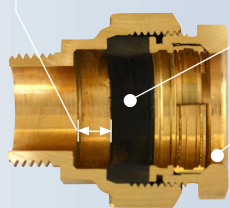
FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut

Section of a SE13 fitting



ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body

Brass EN 1216X / EN 1982
BSP male or female thread ISO 228-1

Packing

Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C
Friction washer and compression ring : brass EN 1216X
Compression nut : male threaded, brass EN 1216X, EN 1982

SE19/M and SE19/T fittings can be used without pipe inserts :

- On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
- On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
- On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

LARGE GASKET



FULL BORE

WIDE RANGE OF AVAILABLE PRODUCTS

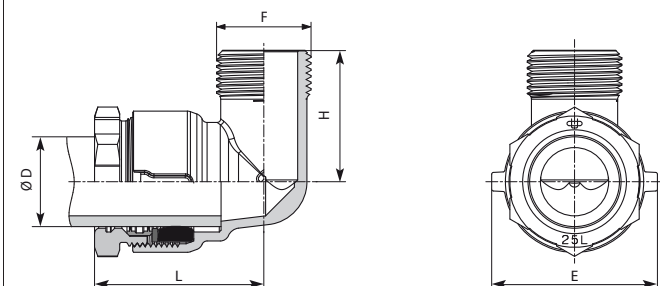
PRESSURE 25 BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

REXUO elbow - Male and female

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 63 mm

SE19/M - 90° Male elbow



Metric series

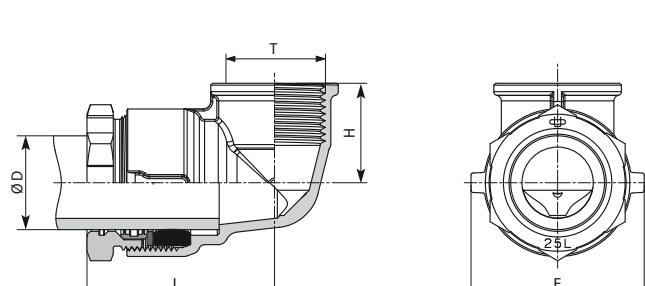
Code	D (mm)	F (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9019.M25	25	3/4"	46	37	47	mechanical	0,23	E
9019.M32	32	1"	57	41	57	mechanical	0,39	E
9019.M40	40	1 1/4"	67	48	73	6	0,68	
9019.M50	50	1 1/2"	78	54	85	7	0,85	
9019.M63	63	2"	95	88	109	mechanical	1,83	E ✓

Reducer fitting

Code	D (mm)	F (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9019.M2526	25	1"	46	37	47	mechanical	0,23	E
9019.M3220	32	3/4"	57	57	57	mechanical	0,46	E ✓
9019.M3233	32	1 1/4"	57	61	57	mechanical	0,52	E ✓

E Snap-on packing

SE19/T - 90° Female elbow



Metric series

Code	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9019.T20	20	1/2"	35	26	44	3	0,16	
9019.T25	25	3/4"	46	27	50	mechanical	0,22	E
9019.T32	32	1"	57	39	57	mechanical	0,37	E
9019.T40	40	1 1/4"	67	46	75	6	0,64	
9019.T50	50	1 1/2"	78	50	85	7	0,84	
9019.T63	63	2"	95	61	109	mechanical	1,50	E

Reducer fitting

Code	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9019.T2020	20	3/4"	41	30	49	3	0,30	
9019.T2515	25	1/2"	46	27	50	mechanical	0,23	E
9019.T3220	32	3/4"	57	35	56	mechanical	0,39	E

SE139/M - 45° Male elbow

Code	D (mm)	F (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9139.M32SE	32	1"	56	46	76	3	0,58	✓

✓ Assembly tested before dispatch

SE139/T - 45° Female elbow

Code	D (mm)	T (Thread)	E (mm)	L (mm)	H (mm)	Recommended torque (daN.m)	Weight (kg)	
9139.T25SE	25	3/4"	45	20	58	butée	0,27	E ✓

SE20 SE21

REXUO Tee

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 16 to 63 mm

SE 20 | Tee with female outlet

Tee with two REXUO compression fittings and female threaded outlet O.D. 16 mm with 3/8" outlet to O.D. 63 mm with 2" outlet

The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



SE 21 | REXUO compression tee

Tee with three REXUO compression fittings - O.D. 16 to 63 mm

The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

Easy to fit
No risk of losing components
Impossible to mix up elements



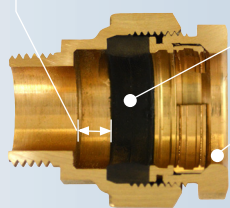
FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut

Section of a SE13 fitting



ASSOCIATED PRODUCTS

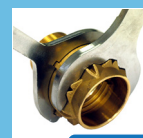
Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body

Brass EN 1216X / EN 1982
SE20 : female thread ISO 228-1

Packing

Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C
Friction washer and compression ring : brass EN 1216X
Compression nut : male threaded, brass EN 1216X, EN 1982

SE20 and SE21 fittings can be used without pipe inserts :

- On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
- On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
- On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

LARGE
GASKET



FULL
BORE

WIDE
RANGE
OF AVAILABLE
PRODUCTS

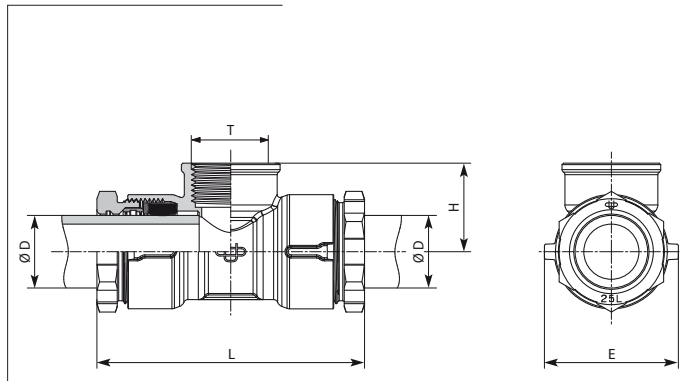
PRESSURE
25
BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

REXUO Tee

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 16 to 63 mm

SE20 - Tee with female outlet



Metric series

Code	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)
9020.16	16	3/8"	30	22	79	3	0,23
9020.20	20	1/2"	35	27	87	3	0,30
9020.25	25	3/4"	46	31	92	mechanical	0,34 E
9020.32	32	1"	57	38	111	mechanical	0,59 E
9020.40	40	1 1/4"	67	45	149	mechanical	0,97 E
9020.50	50	1 1/2"	70	50	166	mechanical	1,41 E
9020.63	63	2"	95	61	218	mechanical	2,45 E

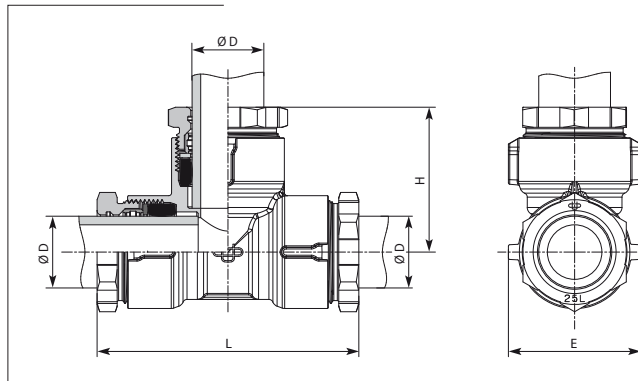
Reducer fitting

Code	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)
9020.2515	25	1/2"	46	37	92	mechanical	0,39 E ✓
9020.3220	32	3/4"	57	35	109	mechanical	0,61 E
9020.4020	40	3/4"	60	37	152	mechanical	1,07 E
9020.4026	40	1"	67	40	149	mechanical	0,97 E
9020.5020	50	3/4"	70	57	162	mechanical	1,65 E ✓
9020.5026	50	1"	70	57	162	mechanical	1,62 E ✓
9020.6326	63	1"	88	55	197	8	2,37

E Snap-on packing

✓ Assembly tested before dispatch

SE21 - Triple REXUO tee



Metric series

Code	D (mm)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)
9021.16	16	31	45	78	3	0,30
9021.20	20	35	48	87	3	0,37
9021.25	25	46	50	91	mechanical	0,44 E
9021.32	32	56	65	119	mechanical	0,76 E
9021.40	40	62	76	152	mechanical	1,24 E
9021.50	50	70	85	170	mechanical	1,85 E
9021.63	63	95	118	221	mechanical	3,40 E

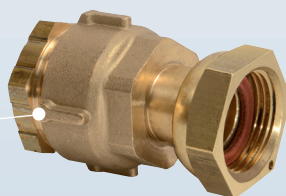
REXUO fittings with swivelling nut

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 16 to 63 mm

9214 | Straight coupling with swivelling nut

REXUO coupling with compression fitting and swivelling nut – O.D. 20 to 63 mm

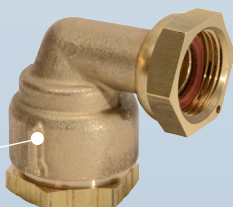
The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



9219 | 90° elbow with swivelling nut

REXUO 90° elbow with compression fitting and swivelling nut – O.D. 25 to 50 mm

The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



SE 239 | 45° elbow with swivelling nut

REXUO 45° elbow with compression fitting and swivelling nut – O.D. 25 to 32 mm

The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings



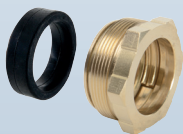
PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

Easy to fit
No risk of losing components
Impossible to mix up elements



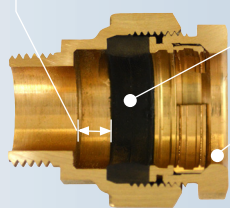
FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut

Section of a SE13 fitting



ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body	brass NF EN 1216X / NF EN 1982
Compression nut	Brass EN 1216X, with hole for lead seal Female BSP thread ISO 228-1
Packing	Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C Friction washer and compression ring : brass EN 1216X Compression nut : male threaded, brass EN 1216X, EN 1982

9214, 9219 and SE239 fittings can be used without pipe inserts :
• On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
• On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
• On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

LARGE
GASKET

FULL
BORE

WIDE
RANGE
OF AVAILABLE
PRODUCTS

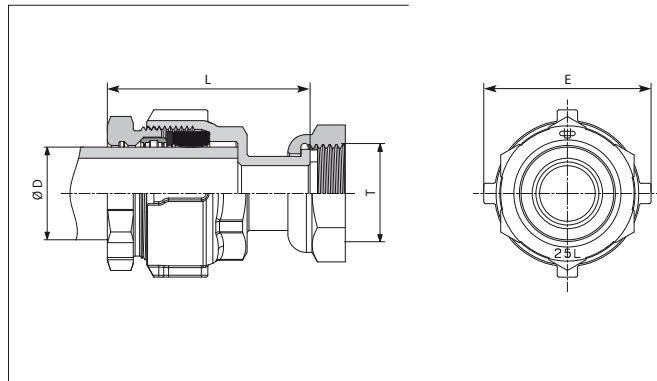
PRESSURE
25
BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

REXUO fittings with swivelling nut

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 16 to 63 mm

9214 - Straight coupling with swivelling nut



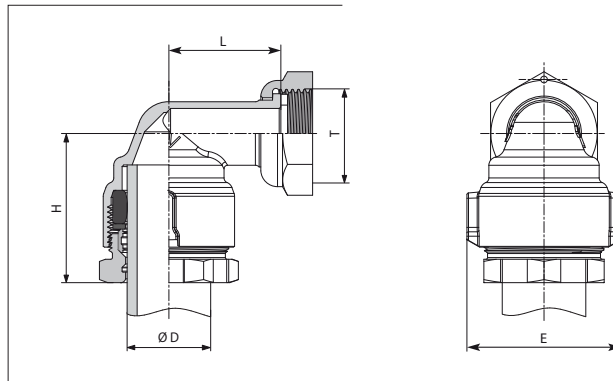
Metric series

Code	D (mm)	T (Thread)	E (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9214.20	20	1/2"	38	55	3	0,14	
9214.25	25	3/4"	45	55	mechanical	0,22	E
9214.32	32	1"	56	65	mechanical	0,38	E
9214.40	40	1 1/4"	67	83	mechanical	0,53	E
9214.50	50	1 1/2"	77	99	mechanical	0,81	E
9214.63	63	2"	95	115	mechanical	1,39	E

Reducer fitting

Code	D (mm)	T (Thread)	E (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9214.2020	20	3/4"	37	58	3	0,23	
9214.2526	25	1"	45	57	mechanical	0,21	E
9214.3220	32	3/4"	56	62	mechanical	0,40	E

9219 - 90° elbow with swivelling nut



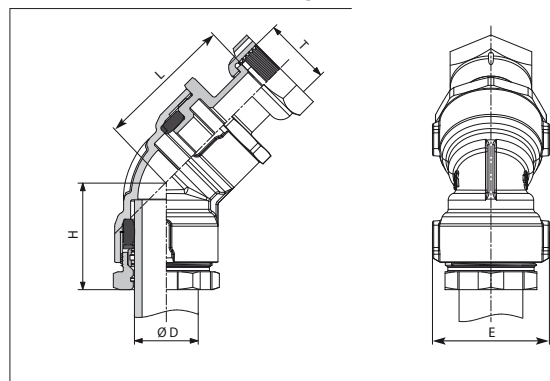
Metric series

Code	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9219.25	25	3/4"	46	45	34	mechanical	0,22	E
9219.32	32	1"	57	53	41	mechanical	0,37	E
9219.40	40	1 1/4"	67	72	49	mechanical	0,63	E
9219.50	50	1 1/2"	78	85	75	7	1,20	✓

Reducer fitting

Code	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9219.2526	25	1"	46	47	37	mechanical	0,27	E
9219.3220	32	3/4"	57	53	43	mechanical	0,37	E
9219.3233	32	1 1/4"	57	57	56	mechanical	0,51	E ✓

SE239 - 45° elbow with swivelling nut



- E Snap-on packing
- ✓ Assembly tested before dispatch

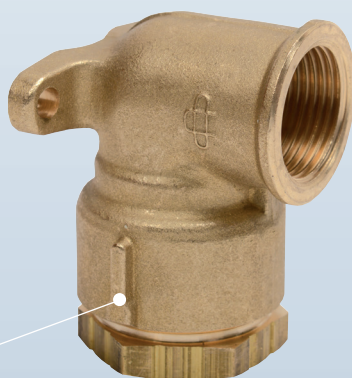
Code	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9239.25	25	3/4"	46	42	70	mechanical	0,32	E ✓

SE125

REXUO wall elbow

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 27 mm

Female wall elbow with one REXUO compression fitting and one female end
– For wall mounting – O.D. 20 and 25 mm



The ribs and the special wrench keep the coupling in place when mounting the REXUO fittings

PRODUCT

- ▶ **Complete assembly**, easy to fit by tightening of the compression nut
- ▶ **Large gasket** ensuring performance and durability
- ▶ **Excellent torsional** strength and pipe pull-out resistance
- ▶ **REXUO outlets** are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ REXUO outlet with **snap-on packing** (see overleaf for the product codes)
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

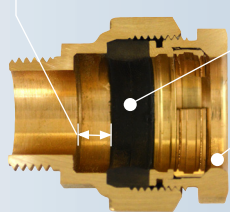
Easy to fit
No risk of losing components
Impossible to mix up elements



FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable



Section of a SE13 fitting

Pipe guidance through the compression nut

ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body

brass EN 1216X
female BSP thread ISO 228-1

Packing

Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C
Friction washer and compression ring : brass EN 1216X
Compression nut : male threaded, brass EN 1216X, EN 1982

SE125 fittings can be used without pipe inserts :

- On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
- On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
- On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

LARGE GASKET



FULL BORE

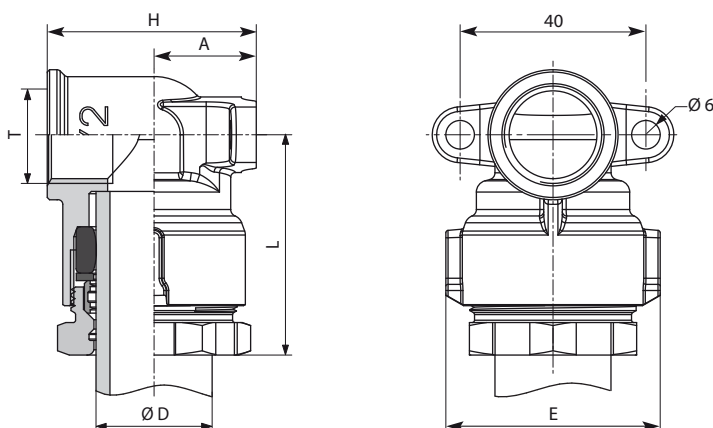
WIDE RANGE OF AVAILABLE PRODUCTS

PRESSURE 25 BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

REXUO wall elbow

For standard EN 12201, NF T54-071 PE and standard EN 1452 PVC pipes O.D. 20 to 27 mm



Code	D (mm)	T (Thread)	A (mm)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)
9125.20SE	20	1/2"	20	35	44	49	3	0,23
9125.25SE15	25	1/2"	22	46	45	47	mechanical	0,25 E
9125.25SE	25	3/4"	22	46	51	50	mechanical	0,27 E

SE7 9402/K

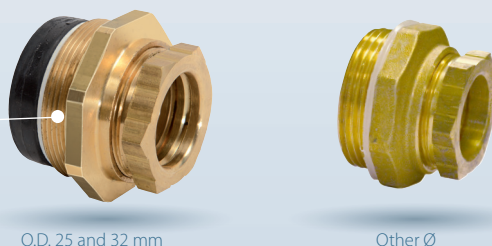
REXUO transformation kit

For PE standards EN 12201, NF T54-071 and PVC standard EN 1452 pipes – O.D. 25 – 63mm

SE7 | Size reducer kit

For connections with items of smaller Ø
– O.D. 25 to 63 mm

No oakum nor sealing compound needed between the transformation kit and the REXUO fitting



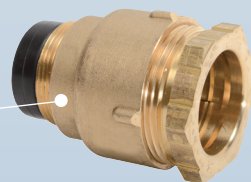
O.D. 25 and 32 mm

Other Ø

9402/K | Size increase kit

For connections with items of bigger Ø
– O.D. 32 and 63 mm

No oakum nor sealing compound needed between the transformation kit and the REXUO fitting



PRODUCT

- ▶ Replaces the packing of REXUO fittings
- ▶ No additional sealing material needed
- ▶ Large gasket ensuring performance and durability
- ▶ Sure and quick installation
- ▶ REXUO outlets are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ Individually packed in plastic bag

FOCUS | PACKING

SNAP-ON PACKING

Easy to fit
No risk of losing components
Impossible to mix up elements

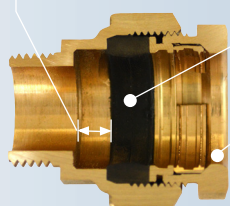


FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut



Section of a SE13 fitting

ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings.
No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Body	brass EN 1216X / EN 1982
Gasket	polyethylene, polypropylene or rubber NF EN 681-1
Packing	Tightness ring : rubber EN681-1 – for fluid temperatures below 40°C Friction washer and compression ring : brass EN 1216X Compression nut : male threaded, brass EN 1216X, EN 1982

LARGE
GASKET

FULL
BORE

WIDE
RANGE
OF AVAILABLE
PRODUCTS

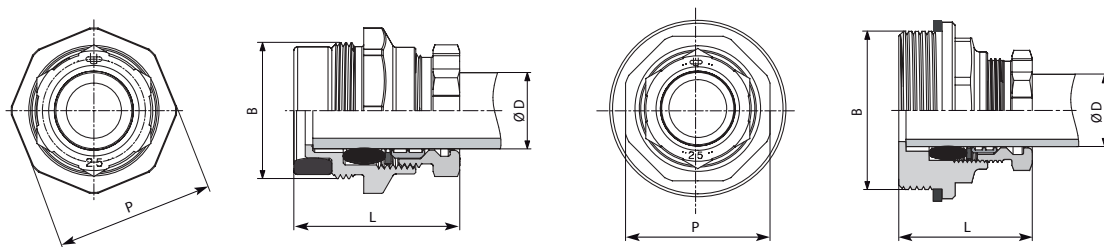
PRESSURE
25
BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

REXUO transformation kit

For PE standards EN 12201, NF T54-071 and PVC standard EN 1452 pipes – O.D. 25 – 63mm

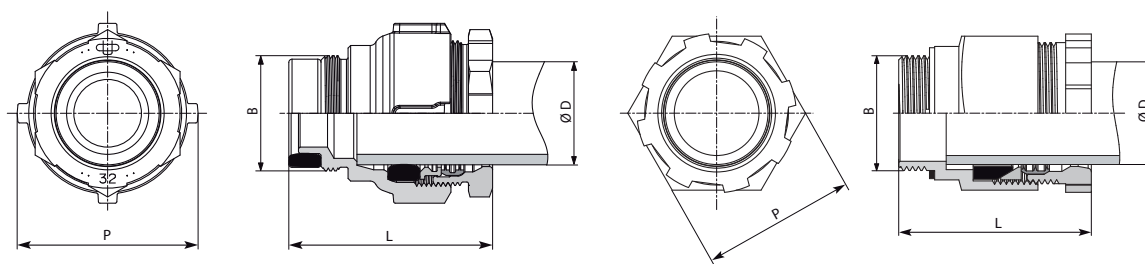
SE7 - Size reducer kit



Self-sealing, with large gasket

Code	B DN Body (mm)		Outlet (mm)	D Recommended torque (daN.m)	P (mm)	L (mm)	Weight (kg)	
9007.SE2520	25	AUTO ETANCHE	20	3	41	44	0,16	
9007.SE3A20	32	/	20	3	50	39	0,24	
9007.SE3220	32	AUTO ETANCHE	20	3	50	43	0,24	
9007.SE3A25	32	/	25	mechanical	50	38	0,25	E
9007.SE3225	32	AUTO ETANCHE	25	mechanical	50	47	0,22	E
9007.SE4025	40	/	25	mechanical	40	54	0,35	E
9007.SE4032	40	/	32	3	50	60	0,41	
9007.SE5032	50	/	32	3	50	51	0,58	
9007.SE5040	50	/	40	6	60	67	0,62	
9007.SE6340	63	AUTO ETANCHE	40	6	87	69	1,20	
9007.SE6350	63	AUTO ETANCHE	50	7	87	72	0,99	

9402/K - Size increase kit with large gasket



Self-sealing, with large gasket

Code	B DN Body (mm)		Outlet (mm)	D Recommended torque (daN.m)	P (mm)	L (mm)	Weight (kg)	
9402.K32SE	25	AUTO ETANCHE	32	mechanical	56	63	0,35	E
9402.K40SE	32	/	40	6	60	75	0,50	
9402.K63SE	50	AUTO ETANCHE	63	mechanical	95	115	1,44	E

INSTALLATION
VIDEO



AUTO ETANCHE Self-sealing

E Snap-on packing

SR7
SR7/M

SR9/B
9/B

SR207

Accessories for REXUO

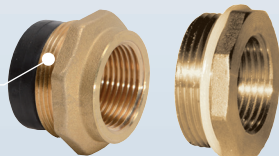
For PE standards EN 12201, NF T54-071 and PVC standard EN 1452 pipes

SR7

Changes a REXUO fitting into a female threaded outlet

O.D. 25,32 and 32 mm Other Ø

No oakum nor sealing compound needed between the transformation kit and the REXUO fitting

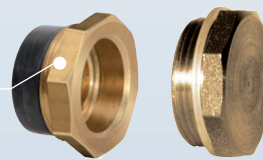


Plug for REXUO fittings. No sealing compound needed. O.D. 25 to 63 mm

SR9/B

REXUO plug

No oakum nor sealing compound needed between the transformation kit and the REXUO fitting

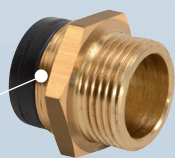


Plug for REXUO fittings. No sealing compound needed. O.D. 25 to 63 mm

SR7/M

Changes a REXUO fitting into a male threaded outlet

No oakum nor sealing compound needed between the transformation kit and the REXUO fitting

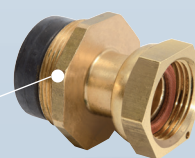


Adaptor kit, changes a REXUO compression fitting into a BSP male outlet. No sealing compound needed. REXUO O.D. 25 to 32 mm, male outlet 3/4" to 1 1/4"

SR207

Changes a REXUO fitting into a swivelling nut

No oakum nor sealing compound needed between the transformation kit and the REXUO fitting



Adaptor kit to change a REXUO fitting into a swivelling nut. No sealing compound needed. REXUO OD 25

9/B

Male plug

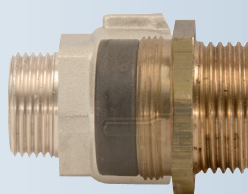


For temporary or permanent use. No sealing compound needed. Male thread 1/4" to 2"

FOCUS

DETAIL OF AN ASSEMBLY REXUO-TRANSFORMATION KIT

Assembly with a SE7/M



- > Dismount the REXUO packing
- > Put the kit in place of the packing, **without sealing material**
- > Tighten till **the mechanical stop**



ASSOCIATED PRODUCT

REXUO wrenches sizes 25 / 32 and 63



See p.75

- > Easy and quick tightening

Body	brass EN 1216X
Gasket	polyethylene, polypropylene or rubber EN 601-1
Thread (accessory side)	Male or female BSP thread ISO 228-1, NF E 03-005

Test certificates are available on request.

LARGE GASKET

FULL BORE

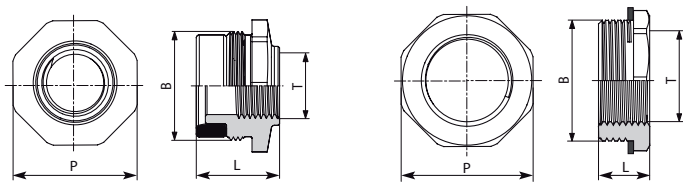
WIDE RANGE OF AVAILABLE PRODUCTS

PRESSURE 25 BAR

Accessories for REXUO

For PE standards EN 12201, NF T54-071 and PVC standard EN 1452 pipes

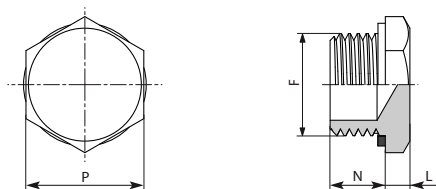
SR7 - REXUO adaptor with BSP female outlet



Self-sealing with large gasket

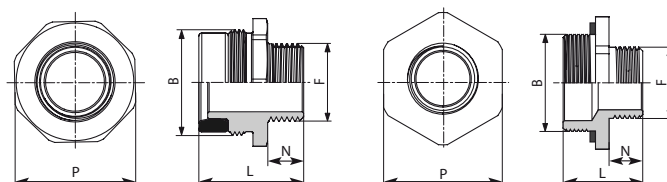
Code	B		T (Thread)	L (mm)	P (mm)	Weight (kg)
	DN body (mm)	Size				
9007.2015	20	/ M30x1,5	1/2"	14	34	0,05
9007.2515	25	AUTO ETANCHE M36x1,5	1/2"	28	41	0,12
9007.2520	25	AUTO ETANCHE M36x1,5	3/4"	30	41	0,11
9007.2526	25	AUTO ETANCHE M36x1,5	1"	41	41	0,17
9007.3220A	32	/ M45x2,3	3/4"	19	49	0,18
9007.3220	32	AUTO ETANCHE M45x1,5	3/4"	27	50	0,17
9007.3226A	32	/ M45x2,3	1"	19	49	0,16
9007.3226	32	AUTO ETANCHE M45x1,5	1"	33	50	0,17
9007.3233A	32	/ M45x2,3	1 1/4"	40	60	0,21
9007.3233	32	AUTO ETANCHE M45x1,5	1 1/4"	44	50	0,22
9007.4033	40	/ M55x2,3	1 1/4"	24	65	0,26
9007.5040	50	/ M64x2,3	1 1/2"	24	70	0,33
9007.6350	63	AUTO ETANCHE M80x2,3	2"	49	77	0,75

9/B - Male plug



Code	F (Thread)	L (mm)	N (mm)	P (mm)	Weight (kg)
9.B08	1/4"	3	7	18	0,01
9.B12	3/8"	5	9	20	0,02
9.B15	1/2"	5	11	24	0,04
9.B20	3/4"	4,5	10,50	33	0,04
9.B26	1"	6	12,50	40	0,09
9.B33	1 1/4"	7	14,5	48	0,15
9.B40	1 1/2"	8,5	18	56	0,21
9.B50	2"	8	20,50	64	0,32

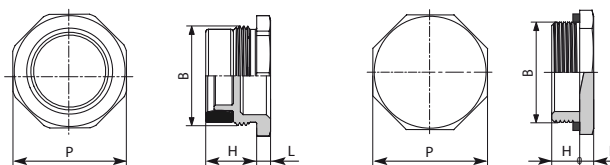
SR7/M - REXUO adaptor with BSP male outlet



Self-sealing with large gasket

Code	B		F (Thread)	N (mm)	L (mm)	P (mm)	Weight (kg)
	DN body (mm)	Size					
9007.M2520	25	AUTO ETANCHE M36x1,5	3/4"	12	36	41	0,13
9007.M2526	25	AUTO ETANCHE M36x1,5	1"	14	37	41	0,15
9007.M3220A	32	/ M45x2,3	3/4"	12	30	50	0,19
9007.M3220	32	AUTO ETANCHE M45x1,5	3/4"	12	39	50	0,20
9007.M3226A	32	/ M45x2,3	1"	14	32	50	0,19
9007.M3226	32	AUTO ETANCHE M45x1,5	1"	14	41	50	0,20
9007.M3233A	32	/ M45x2,3	1 1/4"	16	34	50	0,18
9007.M3233	32	AUTO ETANCHE M45x1,5	1 1/4"	16	43	50	0,19

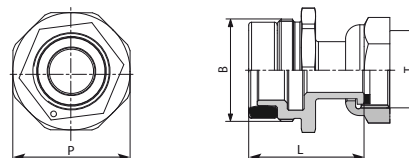
SR9/B - Plug



Self-sealing with large gasket

Code	B		H (mm)	L (mm)	P (mm)	Weight (kg)
	DN body (mm)	Size				
9009.B25	25	AUTO ETANCHE M36x1,5	19	5	41	0,08
9009.B32A	32	/ M45x2,3	13	6	50	0,11
9009.B32	32	AUTO ETANCHE M45x1,5	22	5	50	0,12
9009.B40	40	AUTO ETANCHE M55x2,3	31	7	60	0,27
9009.B50	50	AUTO ETANCHE M64x2,3	33	8	70	0,35
9009.B63	63	AUTO ETANCHE M80x2,3	35	8	100	0,56

SR207 - Adaptor with swivelling nut



Code	B		T (Thread)	L (mm)	P (mm)	Weight (kg)
	DN body (mm)	Size				
9207.2520	25	AUTO ETANCHE M36x1,5	3/4"	40	41	0,17
9207.2526	25	AUTO ETANCHE M36x1,5	1"	46	41	0,21
9207.3226	32	AUTO ETANCHE M45x1,5	1"	46	50	0,26

INSTALLATION
VIDEO



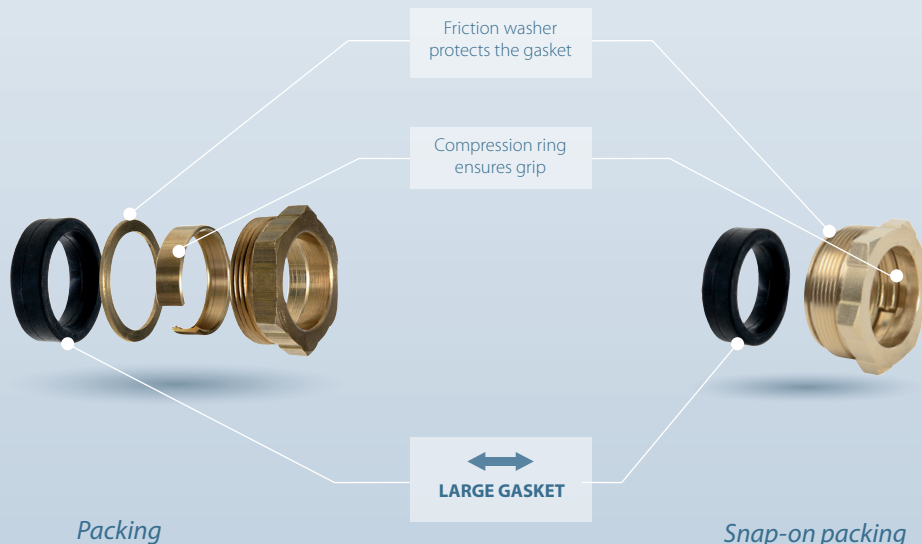
AUTO ETANCHE Self sealing

SE24

REXUO - Packing

For PE pipes (NF EN 12201 and NFE 54-071 standards) and PVC pipes (NF EN 1452 standard) - O.D. from 20 up to 63 mm - Meets the requirements of the 1983 PF quality brand - O.D. from 21 to 60 mm

PARTS CONSTITUTING THE REXUO COMPRESSION FITTING



PRODUCT

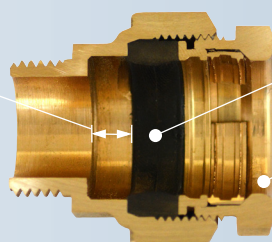
- ▶ **Large gasket** ensuring performance and durability
- ▶ REXUO outlets are also fitted on HUOT service cocks, meter valves and valve boxes
- ▶ The compression ring ensures **optimal pipe adhesion**
- ▶ Individually packed **in plastic bag**

FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut



Section of a SE13 fitting

ASSOCIATED PRODUCTS

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

REXUO wrenches sizes 25 / 32 and 63



▶ See p.75

> Easy and quick tightening

Compression nut	male threaded, brass EN 1216X / EN 1982
Gripping ring	brass EN 1216X
Friction washer	brass EN 1216X
Gasket	rubber EN 681-1 - for fluid temperatures below 40°C

REXUO packings can be used without pipe inserts :

- On PE 80 pipes PN 12,5 and 16 bar, according to standard NF T54-063
- On PE pipes thickness 32, PN 3 and 10 bar, according to standard NF T54-071
- On PVC pipes according to standard EN 1452

Please contact us for application on other pipe types

LARGE GASKET

FULL BORE

WIDE RANGE OF AVAILABLE PRODUCTS

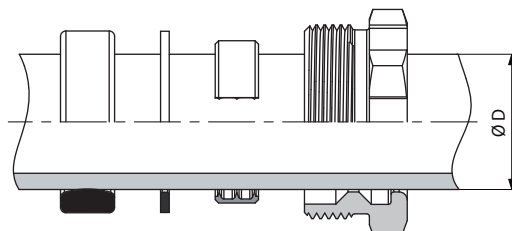
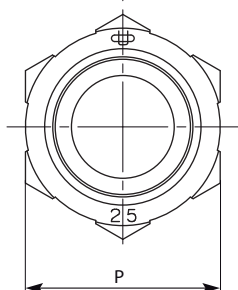
PRESSURE 25 BAR

Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

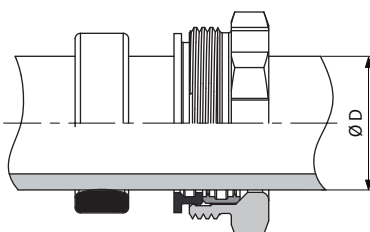
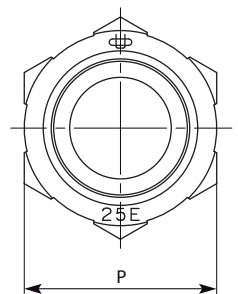
REXUO - Packing

For PE pipes (NFEN 12201 and NPT 54-071 standards) and PVC pipes (NFEN 1452 standard) - O.D. from 20 up to 63 mm - Meets the requirements of the 1983 PF quality brand - O.D. from 21 to 60 mm

SE24



SE24 - Snap-on packing



Code	D (mm)	P (mm)	Recommended torque (daN.m)	Weight (kg)
9024.16	16	30	3	0,05
9024.20	20	30	3	0,06
9024.25	25	36	mechanical	0,07 E
9024.32	32	45	mechanical	0,12 E
9024.32A	32	45	3	0,13
9024.40	40	61	mechanical	0,20 E
9024.50	50	70	mechanical	0,30 E
9024.63	63	88	mechanical	0,58 E
9024.63A	63	88	8	0,50

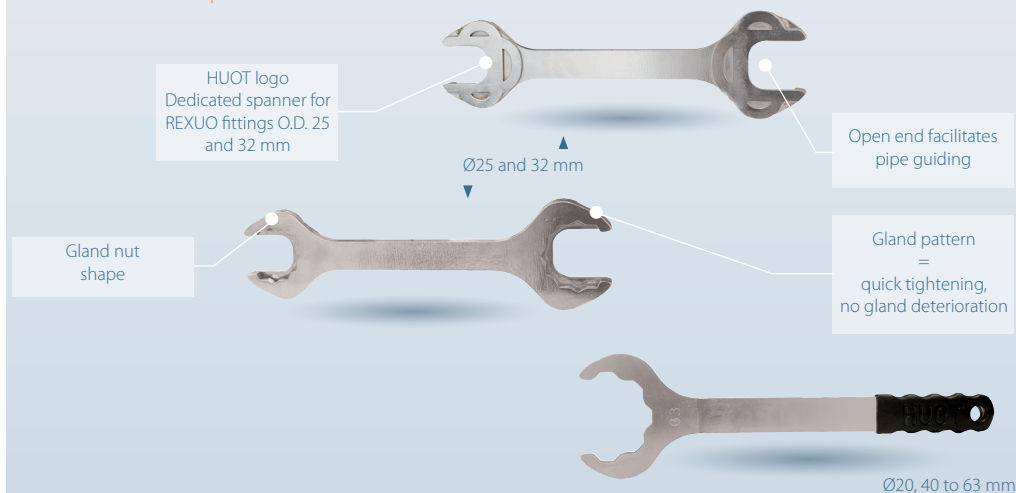
INFO Depending on their diameter, REXUO fittings have different packings (snap-on or traditional version).
For more information, please feel free to contact us

E Snap-on packing

2000.CR
2000.CB

REXUO wrench - *Spanner for REXUO fittings O.D. 20 to 63 mm*
REXUO body wrench - *For REXUO fittings O.D. 20 to 63 mm*

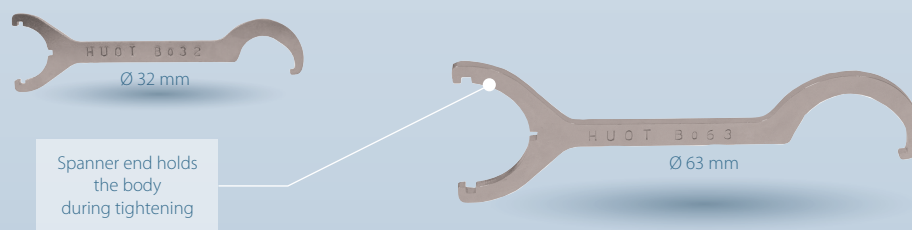
2000/CR | REXUO wrench



PRODUCT

- ▶ The ergonomic design allows comfortable and efficient tightening
- ▶ Pipe guiding facilitates tightening under difficult conditions
- ▶ New **brushed chrome** finish
- ▶ No risk of gland deterioration

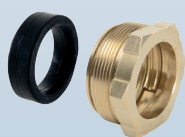
2000/CB | REXUO body wrench



FOCUS | PACKING

SNAP-ON PACKING

Easy to fit
No risk of losing components
Impossible to mix up elements



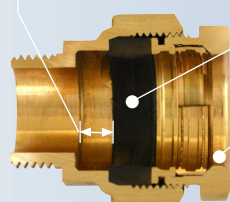
FOCUS | REXUO DESIGN DETAIL

Deep pipe insertion behind the gasket
= Maximum security

LARGE HUOT GASKET
= Effective and durable

Pipe guidance through the compression nut

Section of a SE13 fitting



ASSOCIATED PRODUCT

Self-sealing kit



▶ See p.69 & 71

> Reduces REXUO fittings.
No oakum nor sealing compound needed

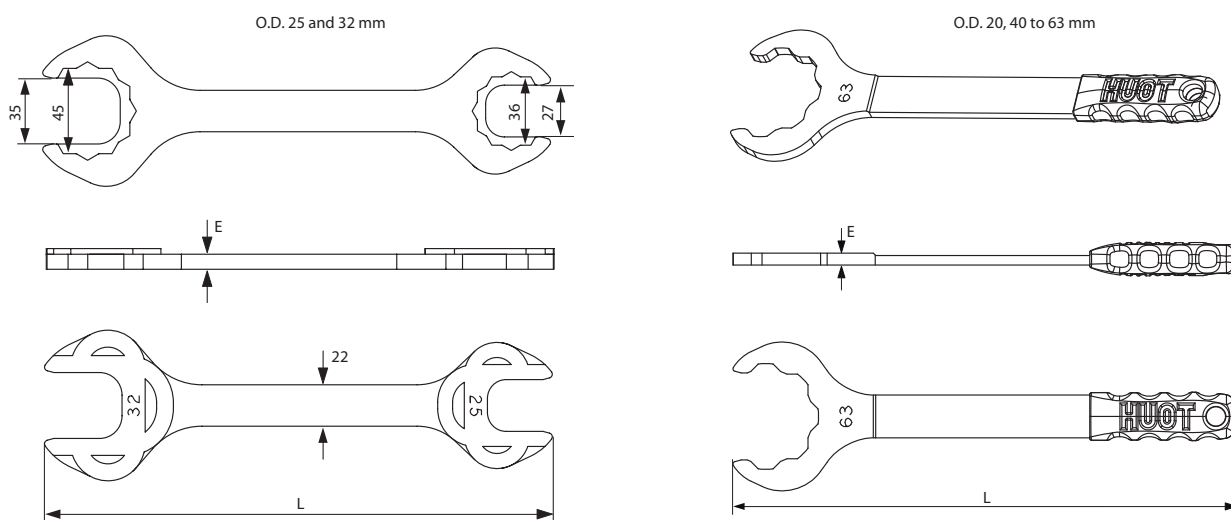
2000.CR material	nickel / chrome plated steel
2000.CB material	nickel / chrome plated steel rubber : grip

WIDE
RANGE
OF AVAILABLE
PRODUCTS

Test REXUO fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503. Test certificates available on request.

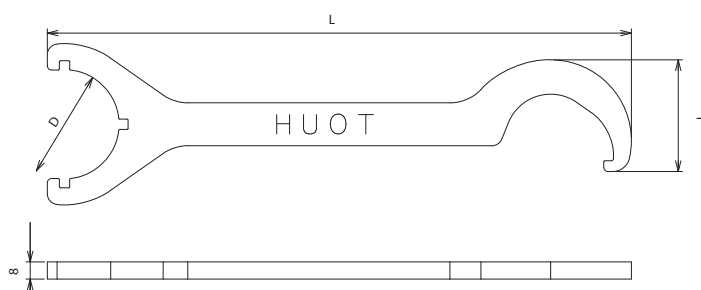
REXUO wrench - *Spanner for REXUO fittings O.D. 20 to 63 mm* REXUO body wrench - *For REXUO fittings O.D. 20 to 63 mm*

2000/CR - REXUO spanner



Code	O.D. (mm)	O.D. (mm)	L (mm)	E (mm)	Weight (kg)
2000.C20R	20	/	242	8	1,11
2000.C2532R	25	32	272	8	0,57
2000.C40R	40	/	325	8	1,23
2000.C50R	50	/	325	8	1,23
2000.C63R	63	/	425	10	1,23

2000/CB - REXUO body



Code	O.D. (mm)	D (mm)	L (mm)	I (mm)	Weight (kg)
2000.C20B	20	35	230	39	0,27
2000.C25B	25	41	240	44	0,39
2000.C32B	32	51	272	52	0,39
2000.C40B	40	61	289	56	0,57
2000.C50B	50	71	318	64	0,57
2000.C63B	63	88	348	74	0,57

Connection elements - Nipple

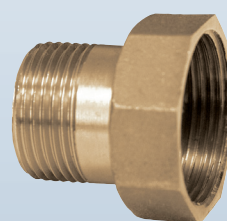
Nipple 1410/F is a connecting element consisting of a threaded swivel nut and a male threaded bushing.
Allows :

- Connection between a female threaded valve or a threaded pipe and a water meter
- House installations maintenance by facilitating demounting of components like the water meter by withdrawing the bushing.

Leakproofness :

- Application of joint compound or oakum before tightening the bushing
- Flat gasket supplied with the swivelling nut

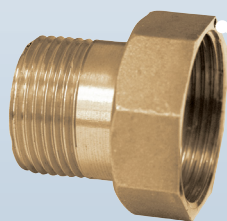
1410/F | Nipple with male bushing



Female threaded swivelling nut and male nipple nut sizes ½" to 2", bushing sizes 3/8" to 1½"



1410/FD | Nipple with bored male bushing for lead seal

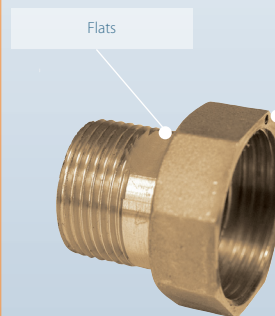


Female threaded, bored swivelling nut and male nipple nut sizes ½" to 2", bushing sizes 3/8" to 1½"



Hole for lead seal

1410/FM | Nipple with bored male bushing for lead seal and flats



Flats

Female threaded, bored swivelling nut with flat parts and male nipple nut sizes ½" to 2", bushing sizes 3/8" to 1½"

Hole for lead seal

ASSOCIATED PRODUCTS

REXUO range and design



SE12



SE13



SE14



SE19



SE21



9214

Self-sealing kit



▶ See p.69 & 71

>Reduces REXUO fittings.
No oakum nor sealing compound needed

Nut - Bushing

brass EN 1216X / EN 1982

Thread

male or female BSP-thread – ISO 228-1

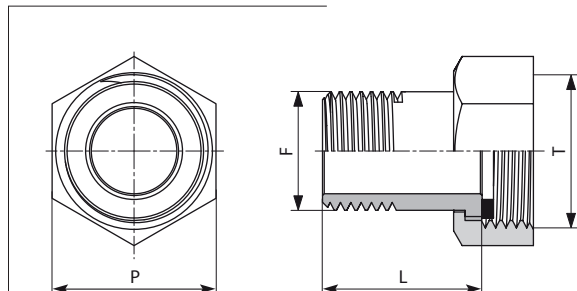
Leakproof test according to NF E 29-311 – ISO 5208/PN16. Test certificates available on request.

WIDE
RANGE
OF AVAILABLE
PRODUCTS

PRESSURE
16
BAR

Connection elements - Nipple

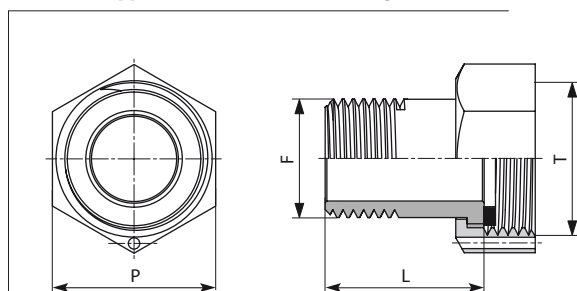
1410/F - Nipple with male bushing



Code	F (Thread)	T (Thread)	L (mm)	P (mm)	Weight (kg)
1410.F1512	3/8"	1/2"	21	23	0,03
1410.F2015*	1/2"	3/4"	28	29	0,06
1410.F2620*	3/4"	1"	30	36	0,10
1410.F2626	1"	1"	30	38	0,13
1410.F3326	1"	1 1/4"	32	45	0,14
1410.F4033	1 1/4"	1 1/2"	36	52	0,23
1410.F5040	1 1/2"	2"	42	66	0,40

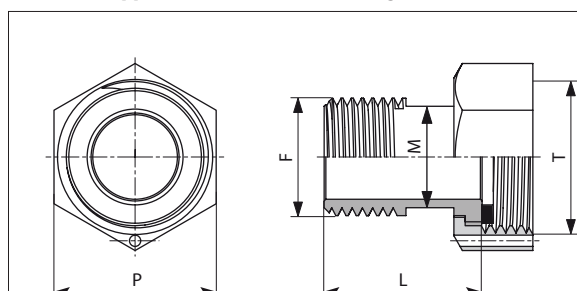
* Male bushing with flats

1410/FD - Nipple with bored male bushing for lead seal



Code	F (Thread)	T (Thread)	L (mm)	P (mm)	Weight (kg)
1410.F2015D	1/2"	3/4"	28	29	0,06
1410.F2620D	3/4"	1"	30	36	0,10
1410.F3326D	1"	1 1/4"	32	45	0,14
1410.F4033D	1 1/4"	1 1/2"	36	52	0,23
1410.F5040D	1 1/2"	2"	42	66	0,40

1410/FM - Nipple with bored male bushing for lead seal and flats



Code	F (Thread)	T (Thread)	L (mm)	P (mm)	M (mm)	Weight (kg)
1410.F2015M	1/2"	3/4"	28	29	18	0,06
1410.F2620M	3/4"	1"	30	36	23	0,10
1410.F3326M	1"	1 1/4"	32	45	30	0,14
1410.F4033M	1 1/4"	1 1/2"	36	52	37	0,23
1410.F5040M	1 1/2"	2"	42	66	43	0,40

HUOT ၁၉၆၁ နှစ်

WATER METER EQUIPMENT

■ Meter boxes

<i>Insulated water meter box</i>	
REGARDUO 1178	79
<i>Insulated water meter box</i>	
CITERNUO 1100	83
CITERNUO 1180	85

■ SPHERUO meter valve

SE2235 - SE9736	87
2235 - 2236 - 2336 - 2245 - 2246	89
2535 - 2536 - 5336	91
3236 - 3238	93
1157/RC - 9157	95
SECUO STOP	97

■ Check valve - drain sleeve, drain tap 1/4"

1916 - 1956 - 1996	99
2019/B - 2020/B	101
9/A - 9/D - 9/E - 9/G - 9/S	103

■ Straight ball valve

230	105
-----------	-----

REGARDUO 1178

Insulated water meter box, adjustable in height

For horizontal water meter DN15, length 110 to 170 mm
DN20, length 110 to 130 mm



PRODUCT

DESIGN

- ▶ Subsurface water meter box for **gardens or sidewalks**
- ▶ **Compact design**
- ▶ HUOT valves and fittings
- ▶ Optional water cutting-off device

USE

- ▶ Ready to install with valves and fittings (assembled version)
- ▶ All parts fully **accessible for maintenance operations**
- ▶ Inlet and outlet with PEHD pipes (assembled version)
- ▶ Adjustable in height and tiltable (+/- 6°)

DELIVERY

- ▶ Instructions for installation and use are supplied with each meter box

FOCUS | INFORMATION ABOUT THE DIFFERENT VERSIONS

3 versions :
Ready to install
Valves and fittings-kit
Without accessories

Available in 6 heights
from 700 to 1700 mm

200 mm high riser
ring available

6 cover combinations available :

- Plastic cover with or without lock
- Ductile iron cover with or without lock for 1,5 tonne load
- Ductile iron cover with lock for 12,5 tonne load
- Ductile iron cover with lock for 12,5 tonne load, NF approved (French standard)

8 equipment options :

- DN15 water meter, length 110mm : fixing on the stop cock
- DN15 water meter, length 110mm : interchangeable valve set, with or without SECUR safety lock
- DN15 water meter, length 110mm or 170mm : screw-on valve sets with or without SECUR safety lock
- DN20 water meter, length 110mm or 130mm : screw-on valve sets with or without SECUR safety lock

2 connection options :
For PE-pipes DN25 or 32

Cylindrical body	expanded polypropylene (EPP)
Sliding cover	riser ring and garden cover : reinforced polypropylene cover : ductile cast iron according to EN GJS NF EN 1563 standard frame : ductile cast iron EN GJS NF EN 1563/PA standard
Valves and fittings	brass EN 12164 / EN 12168 / NF EN 1982
Inlet and outlet pipes	PE for potable water use N F T 54-063
Insulating cap	expanded polyethylene (EPE)

PRESSURE LOSS Maximum losses without meter at nominal flow

At Nominal flow = 1,5 m³/h => 200mb DN15
At maximum flow = 3 m³/h => 800 mb DN15
At maximum flow = 5 m³/h => 700 mb DN20

PLASTIC
GARDEN
AND CAST
IRON COVER
1,5t-12,5t-B125

VALVES AND
FITTINGS
**100%
BRASS**

SMALL
DIMENSIONS

PRESSURE
**16
BAR**

Cast iron cover strength test according to EN 124-B125 and A15. Leakproof test valve: NFP 43-008; meter box: NFP 43-002. REXUO compression fitting tests according ISO 3458 - ISO 3459 - ISO 3501 - ISO 3503 standards. Non-return valve: NF 045. Test certificates in accordance with current standards are available on request

Regarduo 1178 codification

	Version	Height	Cover	Equipment	Lock	PE 25 or 32
1178.	M	7	P	1		
or	S	9	F	2	V	G
or		1	A	3		
or		3	Z			
or		L	R			
or	X	B				

INFO

Every letter or number following code 1178 refers to a specific characteristic. See below for details

EXAMPLE : 1178.M9R1V

Regarduo meter box 1178 / Fully assembled / Height 900mm / Ductile cast iron cover for 12,5 tonne load, with lock / Equipment type 9736 with Secuo safety lock / PE pipes DN25

CODE DETAILS FOR PRODUCT CHOICE

Version

No letter : without valves and fittings **S : valves and fitting in kit** **M : Fully assembled**

Height (en mm)

7 : 700

9 : 900

1 : 1100

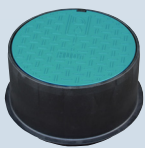
3 : 1300

L : 1500

X : 1700

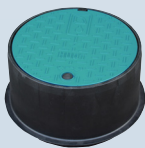
Cover

P



P : Plastic cover

F



F : Plastic cover with lock

A



A : Cast iron cover 1,5 tonne

Z



Z : Cast iron cover 1,5t with lock

R



R : Cast iron cover 12,5 tonne

B



B : Cast iron cover B125 EN124 with lock

Equipment

Water meter DN15, length 110mm - Fixing on the stop cock

1



Meter inlet
1/4-turn ball valve
With SECUCO safety lock (code 1V)

Meter outlet (type 1)
No-return valve with pressure tap before and drain after the valve

1V



Meter outlet (type 1V)
Accessible 1/4-turn ball cock and no-return valve with pressure tap before and drain after the valve ; all parts removable

Water meter DN15, length 110mm - Interchangeable equipment

2



Meter outlet (type 2)
No-return valve with pressure tap before and drain after the valve, threaded outlet

2V



Meter outlet (type 2V)
Accessible 1/4-turn ball cock and no-return valve with pressure tap before and drain after the valve ; all parts removable

Water meter DN15, length 110 to 170 mm - Screw-on equipment

3V

Water meter DNO, length 110 to 130 mm - Screw-on equipment

7V



Meter outlet (type 3-7)
No-return valve with pressure tap before and drain after the valve



Meter outlet (type 3V-7V)
Accessible 1/4-turn ball cock and no-return valve with pressure tap before and drain after the valve ; all parts removable

Valve control

No letter or number: handle control

V : Secuo safety lock

Connection pipes' diameter

No letter or number: PE pipes DN25
PE pipes DN32

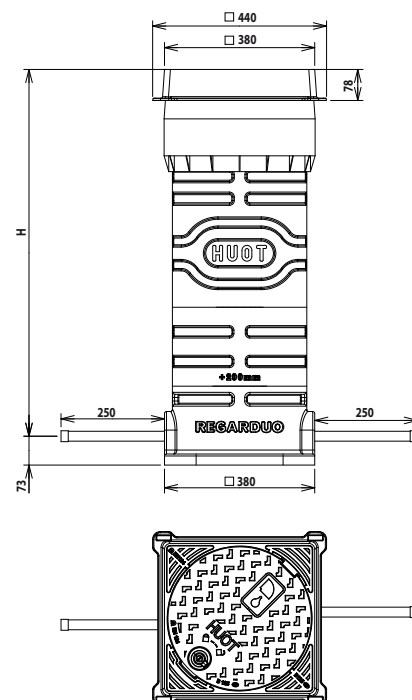
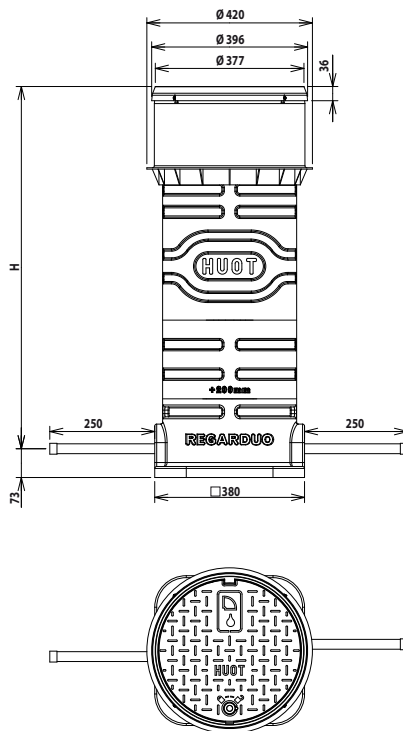
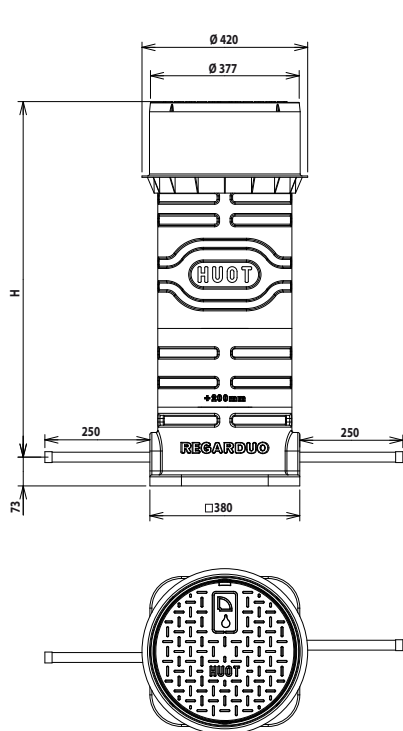
G : PE pipes DN32

REGARDUO 1178

Insulated water meter box, adjustable in height

For horizontal water meter DN 15, length 110 to 170 mm

DN 20, length 110 to 130 mm



Code*	DN	O.D. (mm)	Cover	H (mm)	Weight (kg)
1178.M7A1V	15	25	1,5t	625-775	11,68
1178.M9A1V	15	25	1,5t	825-975	12,28
1178.M1A1V	15	25	1,5t	1025-1175	12,82
1178.M7R1V	15	25	12,5t	645-795	14,67
1178.M9R1V	15	25	12,5t	845-995	15,27
1178.M1R1V	15	25	12,5t	1045-1195	15,81
1178.M7A3	15	25	1,5t	625-775	12,27
1178.M9A3	15	25	1,5t	825-975	12,83
1178.M1A3	15	25	1,5t	1025-1175	13,40
1178.M7R3	15	25	12,5t	645-795	15,26
1178.M9R3	15	25	12,5t	845-995	15,26
1178.M1R3	15	25	12,5t	1045-1195	16,39
1178.M7B3	15	25	B125	650-850	20,68
1178.M9B3	15	25	B125	850-1050	21,23
1178.M1B3	15	25	B125	1050-1250	21,81
1178.M1P7	20	32	1,5	1025-1175	10,17

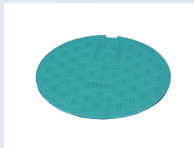
* On request : equipment kit, replace M by S

INSTALLATION
ADVICE



EQUIPMENT
1178/TP | Plastic cover


Code	
1178.TP	

1178/TAP | Plastic lid


Code	
1178.TAP	

1178/TR | Cast iron cover 12,5t with lock


Code	
1178.TR	

1178/TAR | Cast iron lid 12,5t with lock


Code	
1178.TAR	

1178/S1 | Type S1 equipment


Code	
1178.S1	

1178/S1V | Type S1V equipment

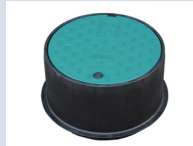

Code	
1178.S1V	

1178/RR | EPP Box riser ring (+ 200mm)

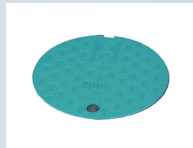

Code	
1178.RR	

1178/B | Insulating cap


Code	
1178.B	

1178/TF | Plastic cover with lock


Code	
1178.TF	

1178/TAF | Plastic lid with lock


Code	
1178.TAF	

1178/TZ | Cast iron cover 1,5t with lock


Code	
1178.TZ	

1178/TAZ | Cast iron lid 1,5t with lock


Code	
1178.TAZ	

1178/S2 | Type S2 equipment


Code	
1178.S2	

1178/S2V | Type S2V equipment


Code	
1178.S2V	

1178/RE | Rimmed riser ring


Code	
1178.RE	

1172/C | Triangular key 8 mm / lever


Code	
1172.C8T	

1178/TA | Cast iron cover 1,5t


Code	
1178.TA	

1178/TAA | Cast iron lid 1,5t


Code	
1178.TAA	

1178/TB | Cast iron cover B125 EN124 with lock


Code	
1178.TB	

1172/T | Cast iron cover B125 EN124 with lock


Code	
1172.T	

1178/S3 | Type S3 equipment


Code	
1178.S3	

1178/S3V | Type S3V equipment


Code	
1178.S3V	

1178/REL | Plain riser ring


Code	
1178.REL	

2035.DV15C : SECUR key

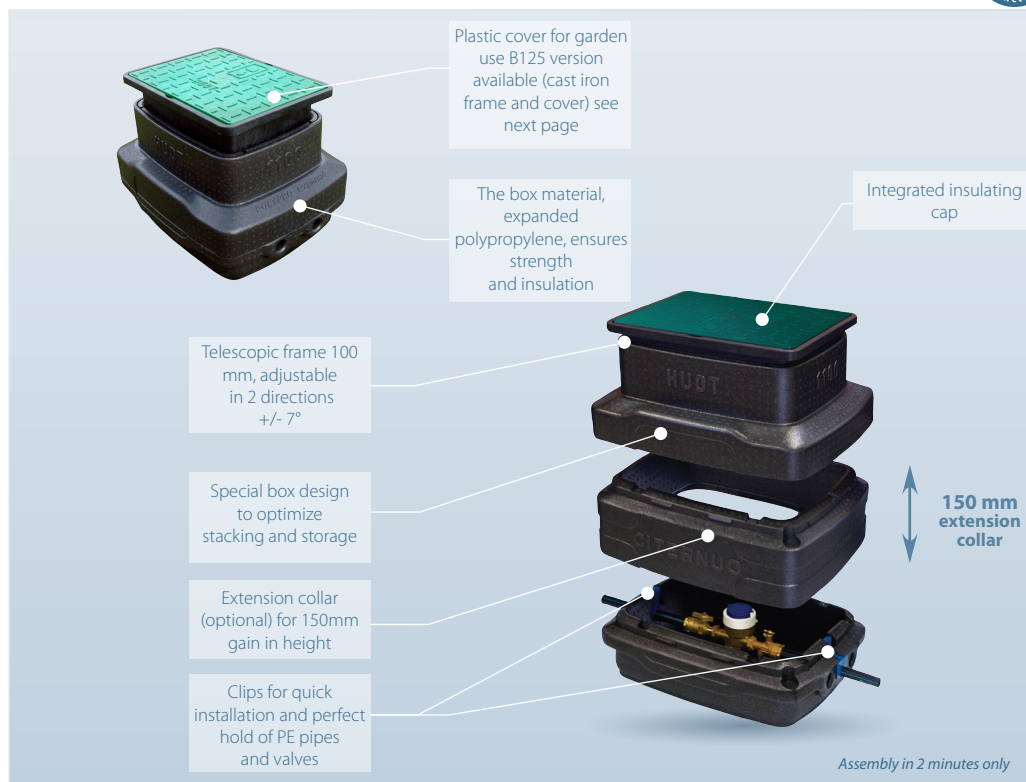


▶ See p.97

CITERNUO 1100

Insulated water meter box for single or double water meter

DN15 : L = 110 and 170 mm and DN20 : L = 130 and 190 mm



PRODUCT

DESIGN

- ▶ Ground boundary meter box
- ▶ Compact and complete, ready for installation.
Assembly in 2 minutes only
- ▶ Box made of expanded polypropylene, ensuring **strength and insulation**

USE

- ▶ Plastic cover for garden or cast iron frame and cover class B125
- ▶ Two-segment box with optional extension collar
- ▶ **Reduced space and weight**
- ▶ REXUO compression fitting inlet and outlet (inside the box)

FOCUS | METER BOX DETAIL

VALVES AND FITTINGS

Meter inlet

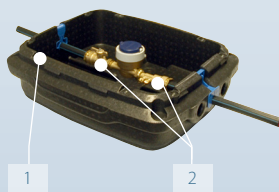
¼ turn ball valve with swivelling nut and REXUO compression fitting



Meter outlet

Integrated check valve with swivelling nut, pressure plug and drain tap, REXUO outlet

BOX INTERIOR



- Easy installation by separation of the two box segments (1)
- REXUO inlet and outlet compression fittings inside the box (2).

FOCUS CITERNUO 1100

PACKAGING



- Ready to use box
- Light weight
- Assembly in 2 minutes

- Reduced pallet space (32 boxes per pallet)
- Easy storage



Body, bottom and extension	expanded polypropylene
Frame and cover	A15 : reinforced polypropylene - B125: ductile cast iron
Valves and fittings	brass EN 12164 / EN 12168 / NF EN 1982
Insulating cap	expanded PE

PLASTIC GARDEN COVER or B125

VALVES AND FITTINGS 100% BRASS

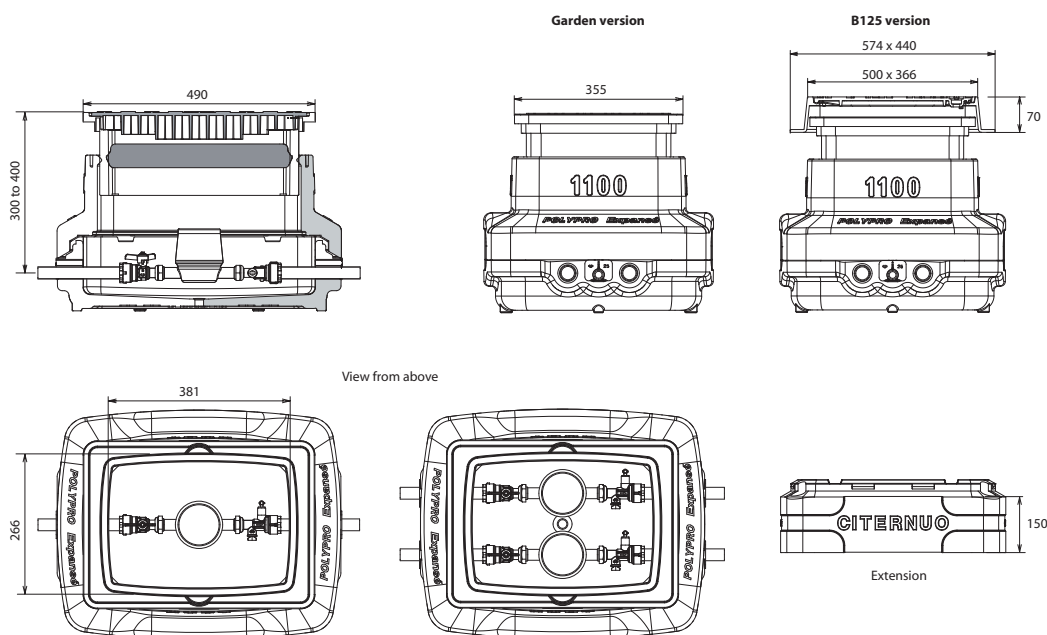
SINGLE Or DOUBLE WATER METER

PRESSURE 16 BAR

Leakproof test of valve body and ball according to NF E 29-311 – ISO 5208: PN16. Mechanical strength test of crimp nuts following NFP 43-007. REXUO compression fitting test according ISO 3458 – ISO 3459 – ISO 3501 – ISO 3503 standards. Check valve according NF 045. Test certificates available on request.

Insulated water meter box for single or double water meter

DN15 : L = 110 and 170 mm and DN20 : L = 130 and 190 mm



Code *	Nb of meters and DN	Inlet O.D. (mm)	Outlet O.D. (mm)	Dimensions	Vertical load (tonne)	Weight (kg)	Pack quantity
1100.315	1 x DN15	25	25	See drawing	1,5	6,54	32
1100.315B	1 x DN15	25	25	See drawing	12,5	23,10	24
1100.3D15	2 x DN15	25	25	See drawing	1,5	7,33	32
1100.3D15B	2 x DN15	25	25	See drawing	12,5	23,88	24
1100.320	1 x DN20	32	32	See drawing	1,5	7,07	32
1100.320B	1 x DN20	32	32	See drawing	12,5	23,62	24
1100.3D20	2 x DN20	32	32	See drawing	1,5	8,38	32
1100.3D20B	2 x DN20	32	32	See drawing	12,5	24,94	24

EQUIPMENT

1100/RE | Extension 150mm



Code	Height
1100.RE	150mm

1100/B | Insulating cap



Code	Height
1100.B	

1180/T | Frame and cover B125
1180/TC | Frame and cover C250



Code	Height
1180.T	
1180.TC	

INSTALLATION
ADVICE



INSTALLATION
VIDEO



CITERNUO 1180

Insulated water meter box for single or double meters

DN15 : L = 110 to 170 mm and DN20 : L = 130 to 190 mm



PRODUCT

DESIGN

- ▶ Ground boundary meter box for gardens and sidewalks
- ▶ Can be equipped with two water meters
- ▶ High performance insulation for cold regions
- ▶ Available in 3 heights : 550-800, 800-1050, 1050-1300

- ▶ Numerous variants (heights, equipment ...)

USE

- ▶ The collar is adjustable in height and slope
- ▶ The service pipe can be introduced directly
- ▶ Complete accessibility for maintenance operations
- ▶ Simple and quick installation of valves and fittings, no tools needed

FOCUS | METER BOX DETAIL

VALVES AND FITTINGS

Meter inlet

¼ turn ball valve with handle control, SECUR lock available (see p. 97)



Meter outlet

Check valve with pressure plug and drain tap

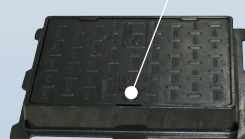
BOX INTERIOR

Meter axis 387 mm +/-125 mm



COVER

- Frame/cover NF EN 124 - B125 NF EN 124 - C250
- Lockable, key supplied
- Anti-skid surface
- Notch for easy opening



FOCUS CITERNUO 1180

- Telescopic setting
- Removable valves and fittings
- DN15 and DN20 interchangeable (DN15 = blue, DN 20 = black)

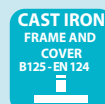
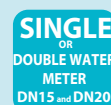


Barrel and collar	PE
Frame and cover	ductile cast iron EN GJS NF EN 1563
Valves and fittings	brass EN 12164 / EN 12168 / NF EN 1982
Insulation	PSE

PRESSURE LOSS Maximum losses without meter at nominal flow

At Nominal flow = 1,5 m³/h => 200mb
At maximum flow = 3 m³/h => 650 mb

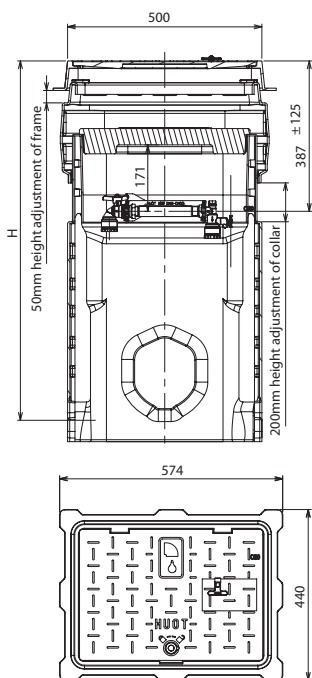
Leakproof test of valve body and ball according to NF E 29-311 – ISO 5208: PN16. Mechanical strength test of swivelling nuts following NF P 43-007. REXUO compression fitting test according ISO 3458 – ISO 3459 – ISO 3501 – ISO 3503 standards. Test of compaction resistance. Check valve according NF 045. Test certificates available on request.



Insulated water meter box for single or double meters

DN15 : L = 110 to 170 mm and DN20 : L = 130 to 190 mm

Tarif 2025



Weight of cover and frame: 17,5 kg

Code *	Nb of meters and DN	Inlet O.D. (mm)	Outlet O.D. (mm)	Height H (mm)	Weight (kg)	Pack quantity
1180.M115	1 x DN15	25	25	1050-1300	34,52	5
1180.M120	1 x DN20	32	32	1050-1300	35,19	5
1180.M1N12	1 x DN15 1 x DN20	25 32	25 32	1050-1300	37,27	5
1180.M1N15	2 x DN15	25	25	1050-1300	36,60	5
1180.M1N20	2 x DN20	32	32	1050-1300	37,94	5
1180.715	1 x DN15	25	25	550-800	30,55	5
1180.720	1 x DN20	32	32	550-800	31,35	5
1180.7N12	1 x DN15 1 x DN20	25 32	25 32	550-800	33,30	5
1180.7N15	2 x DN15	25	25	550-800	32,50	5
1180.7N20	2 x DN20	32	32	550-800	34,10	5
1180.M915	1 x DN15	25	25	800-1050	32,13	5
1180.M920	1 x DN20	32	32	800-1050	32,80	5
1180.M9N12	1 x DN15 1 x DN20	25 32	25 32	800-1050	34,88	5
1180.M9N15	2 x DN15	25	25	800-1050	34,21	5
1180.M9N20	2 x DN20	32	32	800-1050	35,55	5

EQUIPMENT

1157/N | Inlet manifold



	Code	Inlet O.D.	Outlet O.D.
(1)	1157.N3225	32	25
(2)	1157.N32	32	32
(3)	1157.N4025	40	25
(4)	1157.N4032	40	32

9180 | Angled non-return valve



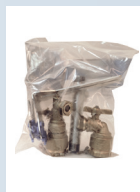
Code	DN	O.D.
9180.1525SE	15	25
9180.1532SE	15	32
9180.2032SE	20	32
9180.2040SE	20	40

1180/T | Cover and frame B125 1180/TC | Cover and frame C250



Code	
1180.T	
1180.TC	

1180/R | Complete valve set



Code	DN
1180.R15	15 - 25
1180.R15G	15 - 32
1180.R20	20 - 32
1180.R20G	20 - 40
1180.R2025	20 - 25

1180/B | Insulating cap



Code	
1180.B	

1172/C | Triangular key 8 mm / lever



Code	
1172.C8T	

1180/TI | Cover insulating



Code	
1180.TI	



SE2235 SE9736

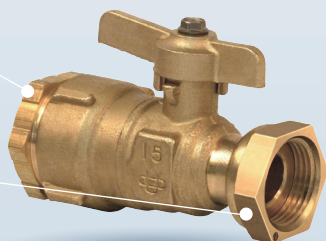
SPHERUO meter valve

Straight or elbow valve for meter inlet or outlet, with REXUO fitting for PE and PVC pipes – DN15 to 40

SE2235 | Straight SPHERUO meter valve

REXUO compression fitting. Large gasket, very deep pipe insertion, optimized compression

Swivelling nut for easy meter installation and removal



With SECUCO control



SE9736 | SPHERUO elbow meter valve

Swivelling nut for easy meter installation and removal

REXUO compression fitting. Large gasket, very deep pipe insertion, optimized compression



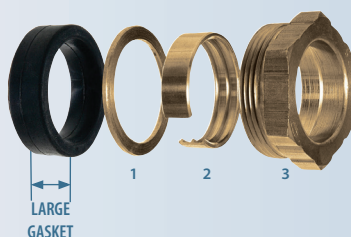
With SECUCO control



PRODUCT

- ▶ ¼ turn ball valve, with massive, **full bore ball**
- ▶ Ball inserted between PTFE seats for **complete tightness**
- ▶ Integrated REXUO fitting and swivelling nut with lead seal hole
- ▶ Swivelling nut for easy meter installation and removal
- ▶ **Gasket supplied**
- ▶ **SECUCO control (code DV)** available for these valves

FOCUS | REXUO DESIGN DETAIL



Compression ring (2) ensures grip by tightening the compression nut (3)

The friction washer (1) protects the gasket

LARGE GASKET

ASSOCIATED PRODUCTS

SELF-SEALING KIT



▶ See p.69 & 71

> Reduces REXUO fittings. No oakum nor sealing compound needed

SECUCO STOP



▶ See p.97

> Temporary control lock device. Can be fitted on all SPHERUO water meter valves.

Body	brass EN 1216X / EN 1982
Nipple	nozzle, brass EN 1216X / EN 1982
Swivelling nut	brass EN 1216X, with lead seal hole –BSP female thread ISO 228-1
Ball	nickel plated brass ball NF EN 1216X
Seat	PTFE
Valve control	screw : SS A2 (304) – packing : PTFE – other components : brass EN 1216X handle : brass EN 1216X / EN 1982
Fitting	REXUO compression fitting, brass components EN 1216X / EN 1982

Leakproof test of body and ball in accordance with ISO 5208 : PN25. Mechanical strength test of swivelling nuts following NF P 43-007. Rexuo fitting test : Internal pressure tightness test to ISO 3458 - Internal depression tightness test and required characteristics to ISO 3459 - Traction resistance test to ISO 3501 - Internal pressure tightness test in pipe bend conditions to ISO 3503.
Test certificates available on request.

VALVES AND FITTINGS
100% BRASS

LARGE GASKET

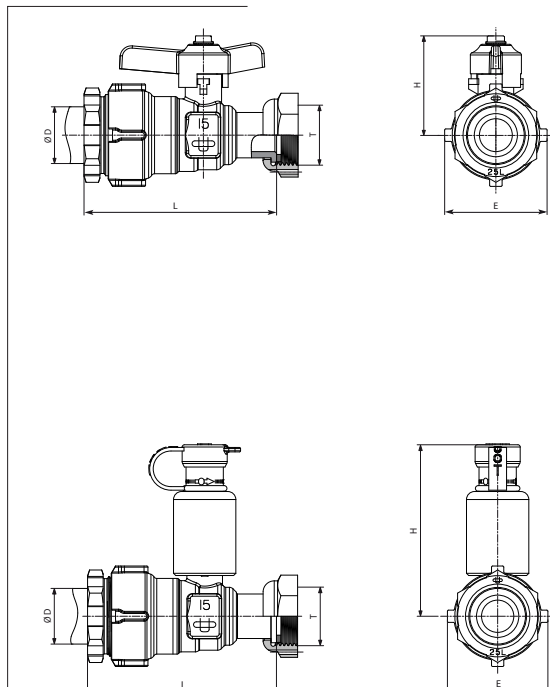
PRESSURE
16 BAR

FULL BORE

SPHERUO meter valve

Straight or elbow valve for meter inlet or outlet, with REXUO fitting for PE and PVC pipes – DN15 to 40

SE2235 - Straight SPHERUO



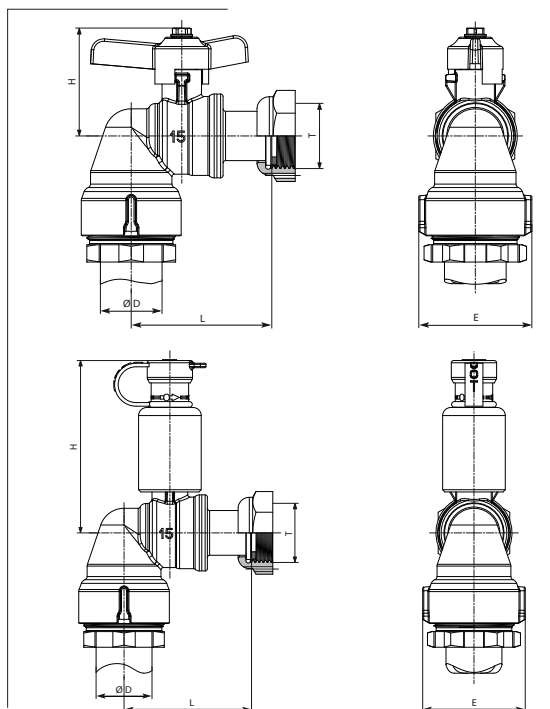
Code	DN	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9235.1520SE	15	20	3/4"	37	44	84	3	0,38	
9235.1525SE	15	25	3/4"	45	44	85	mechanical	0,40	E
9235.1532SE	15	32	3/4"	56	44	95	3	0,55	
9235.2025SE	20	25	1"	45	48	94	mechanical	0,53	E
9235.2032SE	20	32	1"	56	48	111	3	0,68	
9235.2532SE	25	32	1 1/4"	56	63	117	3	0,90	
9235.2540SE	25	40	1 1/4"	67	63	129	mechanical	1,03	E
9235.3040SE	30	40	1 1/2"	67	69	134	mechanical	1,32	E
9235.3050SE	30	50	1 1/2"	77	69	152	mechanical	1,53	E
9235.4050SE	40	50	2"	78	83	165	mechanical	2,24	E

SECUO control

Code	DN	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9235.1525DV	15	25	3/4"	37	75	84	mechanical	0,48	E
9235.1532DV	15	32	3/4"	45	75	95	3	0,62	
9235.2025DV	20	25	1"	45	79	94	mechanical	0,61	E
9235.2032DV	20	32	1"	54	79	111	3	0,77	
9235.2532DV	25	32	1 1/4"	54	118	117	3	0,97	

For Nickel-plated valves product code ends with "NV" instead of "DV"

SE9736 - Elbow SPHERUO



Code	DN	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9736.1525SE	15	25	3/4"	46	44	57	mechanical	0,44	E
9736.1532SE	15	32	3/4"	57	44	57	3	0,56	
9736.2025SE	20	25	1"	46	48	57	mechanical	0,60	E
9736.2032SE	20	32	1"	57	48	59	3	0,71	
9736.3040SE	30	40	1 1/2"	67	69	82	mechanical	1,77	E ✓
9736.4050SE	40	50	2"	77	83	82	mechanical	2,97	E ✓

SECUO control

Code	DN	D (mm)	T (Thread)	E (mm)	H (mm)	L (mm)	Recommended torque (daN.m)	Weight (kg)	
9736.1525DV	15	25	3/4"	46	75	57	mechanical	0,52	E
9736.1532DV	15	32	3/4"	57	75	57	3	0,64	
9736.2032DV	20	32	1"	57	79	59	3	0,79	

E Snap-on packing

✓ Assembly tested before dispatch

SPHERUO water meter valve

Straight valve for water meter inlet or outlet, male or female threaded – DN 15 to 40

2235
2236

Straight SPHERUO valve with male thread

Male thread

The swivelling nut facilitates meter installation and replacement

2235 : Male thread size is smaller than nut size
2236 : Male thread and nut thread are the same size
Thread sizes : see table overleaf



With SECUO control



2336

Standardised straight SPHERUO valve for water supply companies



With SECUO control



Male thread size is identical or greater than nut thread size
Thread sizes : see table overleaf

2245
2246

Straight SPHERUO valve with female thread



With SECUO control



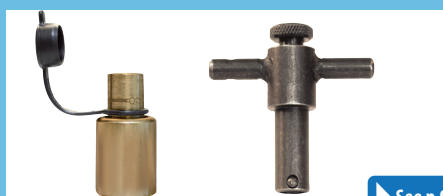
2245 : Female thread size is smaller than nut size
2246 : Female thread and nut thread are the same size
Thread sizes : see table overleaf

PRODUCT

- ▶ ¼ turn ball valve, with massive, **full bore ball**
- ▶ Ball inserted between PTFE seats for **complete tightness**
- ▶ Asymmetric handle for **easier opening and shut-off**
- ▶ Swivelling nut for easy meter installation and removal
- ▶ **Gasket supplied**
- ▶ **SECUO control (code DV)** available for these valves

ASSOCIATED PRODUCT

SECUO STOP



▶ See p.97



> Temporary control lock device.
Can be fitted on all SPHERUO water meter valves.

Body	brass EN 1216X / EN 1982
Nipple	brass EN 1216X / EN 1982 – BSP male or female threaded ISO 228-1 NF EN 03-005
Swivelling nut	brass EN 1216X / EN 1982 – BSP male or female threaded ISO 228-1 NF EN 03-005
Disc	nickel plated brass ball NF EN 1216X
Seat	PTFE
Control	screw: stainless steel A2 (304) – lining: PTFE – other components: brass EN 1216X / EN 1982

VALVES AND FITTINGS
100% BRASS

WIDE PRODUCT RANGE

PRESSURE
16 BAR

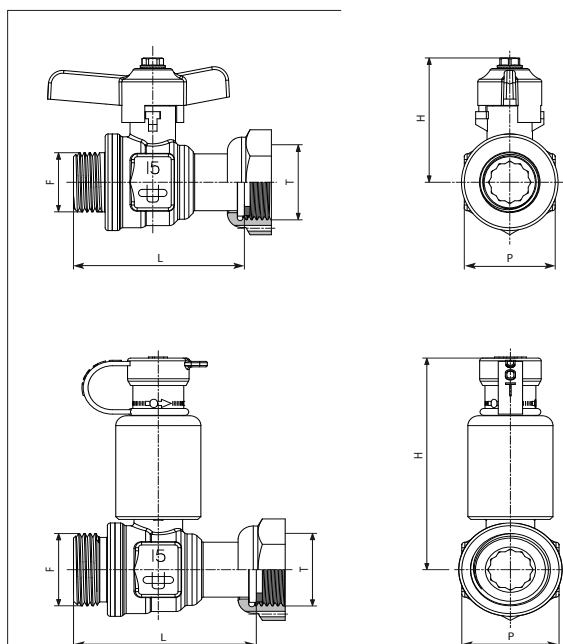
FULL BORE

Leakproof test of body and ball according to NFE 29-311 – ISO 5208: PN25. Mechanical strength test of swivelling nuts following NF P 43-007 / NF P 43-002 for water company type. Test certificates available on request.

SPHERUO water meter valve

Straight valve for water meter inlet or outlet, male or female threaded – DN 15 to 40

2235-2236 - Male threaded SPHERUO

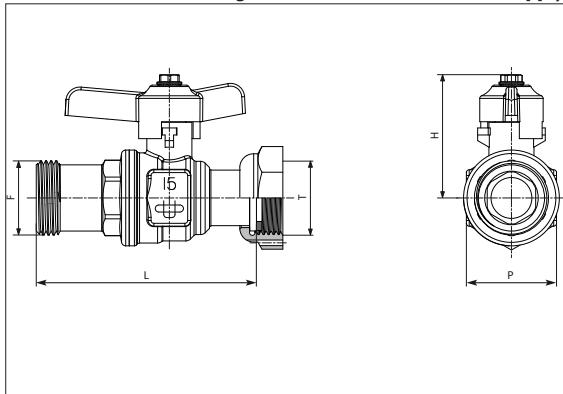


Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	P (mm)	Weight (kg)
2235.15	15	1/2"	3/4"	44	60	32	0,29
2236.15	15	3/4"	3/4"	44	60	32	0,32
2236.15V	15V	1"	3/4"	44	61	32	0,32
2235.20	20	3/4"	1"	48	78	42	0,46
2236.20	20	1"	1"	48	80	42	0,47
2236.20V	20V	1"1/4	1"	48	80	42	0,51
2235.25	25	1"	1"1/4	63	93	48	0,70
2236.25	25	1"1/4	1"1/4	63	97	48	0,76
2235.30	30	1"1/4	1"1/2	67	105	60	1,09
2236.30	30	1"1/2	1"1/2	67	103	60	1,05
2236.30V	30V	2"	1"1/2	67	104	60	1,08
2235.40	40	1"1/2	2"	83	126	72	1,81
2236.40	40	2"	2"	83	120	72	1,81

SECUO control

Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	P (mm)	Weight (kg)
2235.15DV	15	1/2"	3/4"	75	60	32	0,37
2236.15DV	15	3/4"	3/4"	75	62	32	0,40
2235.20DV	20	3/4"	1"	79	78	42	0,55
2236.20DV	20	1"	1"	79	80	42	0,56

2336 - Standardised straight SPHERUO valve for water supply companies

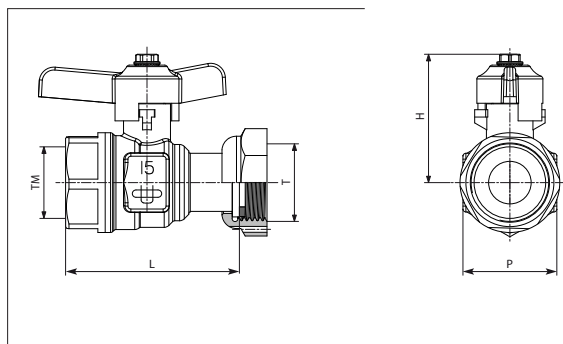


Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	P (mm)	Weight (kg)
2336.15	15	3/4"	3/4"	44	80	32	0,34
2336.15V	15V	1"	3/4"	44	80	32	0,35
2336.20	20	1"	1"	48	80	42	0,48
2336.20V	20V	1"1/4	1"	48	80	42	0,52
2336.30	30	1"1/2	1"1/2	67	111	60	1,07
2336.30V	30V	2"	1"1/2	67	111	60	1,16
2336.40	40	2"	2"	83	140	72	1,91

SECUO control

Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	P (mm)	Weight (kg)
2336.15DV	15	3/4"	3/4"	73	80	32	0,41

2245-2246 - Female threaded SPHERUO



Code	DN	TM (Thread)	T (Thread)	H (mm)	L (mm)	P (mm)	Weight (kg)
2245.15	15	1/2"	3/4"	44	61	32	0,28
2246.15	15	3/4"	3/4"	44	60	32	0,29

SECUO control

Code	DN	TM (Thread)	T (Thread)	H (mm)	L (mm)	P (mm)	Weight (kg)
2245.15DV	15	1/2"	3/4"	73	60	32	0,37
2246.15DV	15	3/4"	3/4"	75	60	32	0,38
2245.20DV	20	3/4"	1"	79	74	38	0,54
2246.20DV	20	1"	1"	77	74	38	0,55
2245.25DV	25	1"	1"1/4	77	74	48	0,76
2245.40DV	40	1"1/2	2"	114	156	72	2,14
2246.40DV	40	2"	2"	114	165	72	2,20

**2535 - 2536
5336**

SPHERUO water meter valve

Elbow valve with male threaded end for water meter inlet or outlet – DN15 to 40

**2535
2536**

Reduced bore elbow SPHERUO

Male thread



The swivelling nut facilitates meter installation and replacement

5336

Full bore elbow SPHERUO valve for water supply companies



With SECUCO control



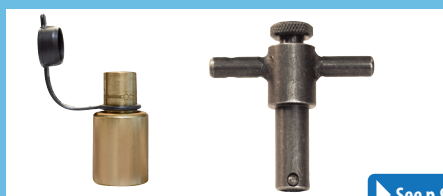
Male thread size is identical or greater than nut thread size
Thread sizes : see table overleaf

PRODUCT

- ▶ ¼ turn ball valve, with massive, **full bore ball**
- ▶ Ball inserted between PTFE seats for **complete tightness**
- ▶ Asymmetric handle for **easier opening and shut-off**
- ▶ Swivelling nut for easy meter installation and removal
- ▶ **Gasket supplied**

ASSOCIATED PRODUCT

SECUCO STOP



▶ See p.97



> Temporary control lock device.
Can be fitted on all SPHERUO water meter valves.

Body	brass EN 1216X / EN 1982 – BSP male thread ISO 228-1
Nipple	brass EN 1216X / EN 1982 – BSP male or female threaded ISO 228-1 NF EN 03-005
Swivelling nut	brass EN 1216X / EN 1982 – BSP male or female threaded ISO 228-1 NF EN 03-005
Disc	nickel plated brass ball NF EN 1216X
Seat	PTFE
Control	screw: stainless steel A2 (304) – lining: PTFE – other components: brass EN 1216X / EN 1982

Leakproof test of body and ball according to NFE 29-311 – ISO 5208: PN25. Mechanical strength test of swivelling nuts following NF P 43-007 / NF P 43-002 for water company type. Test certificates available on request.

VALVES AND FITTINGS
**100%
BRASS**

**WIDE
PRODUCT
RANGE**

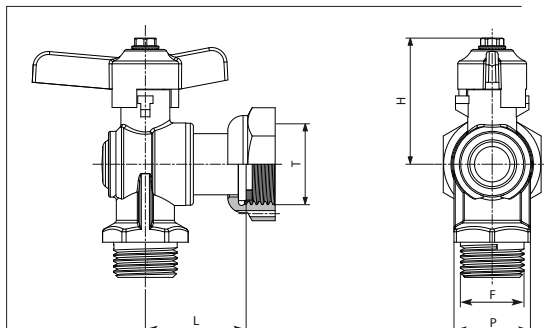
PRESSURE
**16
BAR**

**FULL
BORE**

SPHERUO water meter valve

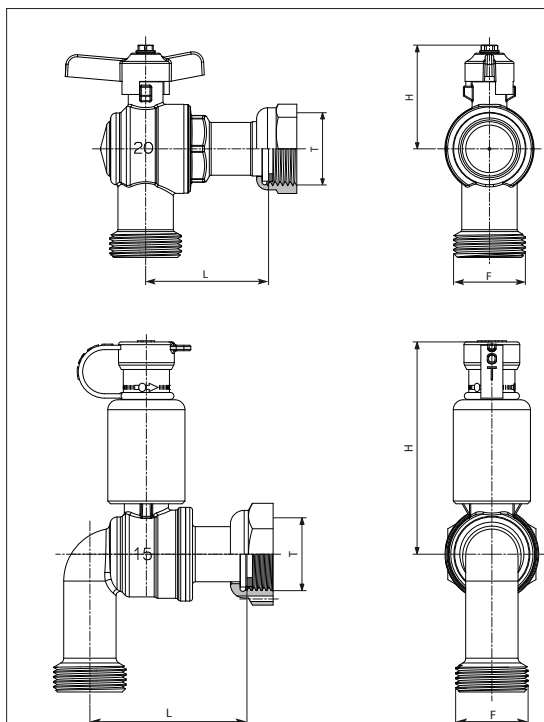
Elbow valve with male threaded end for water meter inlet or outlet – DN15 to 40

2535-2536 - Male threaded reduced bore elbow Spheruo



Code	DN	F (Thread)	T (Thread)	L (mm)	H (mm)	P (mm)	Weight (kg)
2535.15	15	1/2"	3/4"	33	41	25	0,31
2536.15	15	3/4"	3/4"	33	41	31	0,31

5336 - Male threaded full bore elbow SPHERUO valve for water supply companies



Code	DN	F (Thread)	T (Thread)	L (mm)	H (mm)	Weight (kg)
5336.15	15	3/4"	3/4"	57	44	0,31
5336.15V	15V	1"	3/4"	57	44	0,31
5336.20	20	1"	1"	57	48	0,52
5336.20V	20V	1"1/4	1"	57	48	0,50
5336.30	30	1"1/2	1"1/2	82	69	1,25
5336.30V	30V	2"	1"1/2	82	69	1,29
5336.40	40	2"	2"	82	83	2,24

SECUO control

Code	DN	F (Thread)	T (Thread)	L (mm)	H (mm)	Weight (kg)
5336.15DV	15	3/4"	3/4"	57	75	0,39

Technical leaflets also available on

HUOT.FR



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FURTHER INFORMATION

COMPLEMENTARY RANGE

You can complete your installations with a large choice of accessories :

- Check valve
- Meter setting
- Meter boxes

Meter
setting



1956 : short check
valve (58 mm))



▶ See p. 99

3236
3238

SPHERUO water meter valve with drain

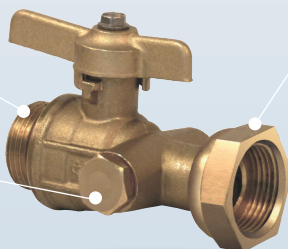
Drain valve with male threaded end for water meter inlet (3236) or outlet (3238) – DN15 to 40

3236 | Straight SPHERUO drain valve for water meter inlet

Male thread 3/4" and 1",
swivelling nut 3/4" and 1"

Drain plug 9.B on one
side, 9.B on the other
side – 9.A, 9.D, 9.E, 9.S
or 9.G possible

Swivelling nut
3/4" and 1"



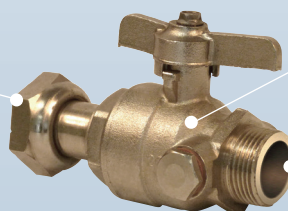
⚠ Supplied with one drain plug only

3238 | Straight SPHERUO drain valve for water meter outlet

Swivelling nut for easy
installation or
replacement

1/4 turn full bore ball
valve

Male thread 3/4" and 1",
swivelling nut 3/4" and 1"



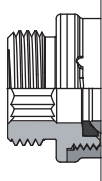
⚠ Supplied with one drain plug only

PRODUCT

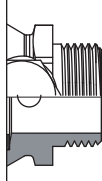
- ▶ 1/4 turn ball valve, with massive, **full bore ball**
- ▶ Ball inserted between PTFE seats for **complete tightness**
- ▶ Asymmetric handle **for easier opening and shut-off**
- ▶ Swivelling nut for easy meter installation and removal
- ▶ **Gasket supplied**

FOCUS | DRAIN VALVE INLET AND OUTLET

Inlet 3236



Outlet 3238



ASSOCIATED PRODUCTS

Drain tap range



▶ See p.103

SECUR STOP



▶ See p.97

> Temporary control lock device. Can be fitted on all SPHERUO water meter valves.

Body	brass EN 1216X / EN 1982 – BSP male thread ISO 228-1
Nipple	brass EN 1216X / EN 1982 – BSP male or female threaded ISO 228-1 NF EN 03-005
Swivelling nut	brass EN 1216X / EN 1982 – BSP male or female threaded ISO 228-1 NF EN 03-005
Disc	nickel plated brass ball EN 1216X
Seat	PTFE
Control	screw: stainless steel A2 (304) – lining: PTFE – other components: brass EN 1216X / EN 1982

Leakproof test of body and ball according to NFE 29-311 – ISO 5208: PN25. Mechanical strength test of swivelling nuts following NF P 43-007. Test certificates available on request.

VALVES AND
FITTINGS
**100%
BRASS**

**WIDE
PRODUCT
RANGE**

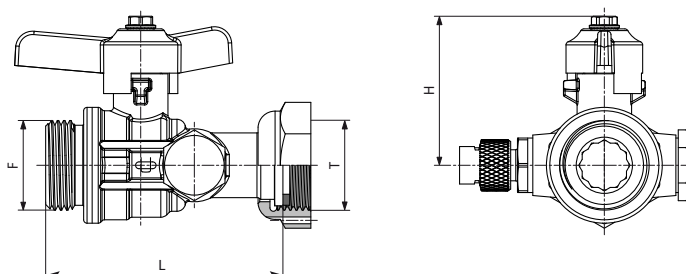
PRESSURE
**16
BAR**

**FULL
BORE**

SPHERUO water meter valve with drain

Drain valve with male threaded end for water meter inlet (3236) or outlet (3238) – DN15 to 40

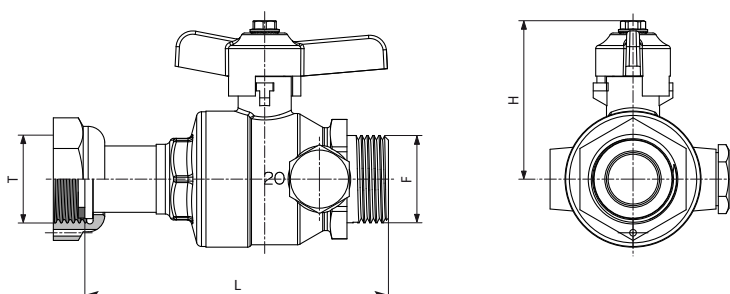
3236 - Straight Spheruo valve for meter inlet



Code	DN	F (Thread)	T (Thread)	L (mm)	H (mm)	Weight (kg)
3236.15	15	3/4"	3/4"	70	44	0,40
3236.20	20	1"	1"	91	48	0,55
3236.15BGL*	15	3/4"	3/4"	89	44	0,43
3236.20BGL*	20	1"	1"	110	48	0,57

*Supplied with 2 drain taps (9B & 9G)

3238 - Straight Spheruo valve for meter outlet



Code	DN	F (Thread)	T (Thread)	L (mm)	H (mm)	Weight (kg)
3238.15	15	3/4"	3/4"	91	48	0,49
3238.20	20	1"	1"	113	63	0,84

Technical leaflets also available on

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FURTHER INFORMATION

COMPLEMENTARY RANGE

You can complete your installations with a large choice of accessories :

- Check valve
- Meter setting
- Meter boxes

Meter
setting



1956 : short check
valve (58 mm)



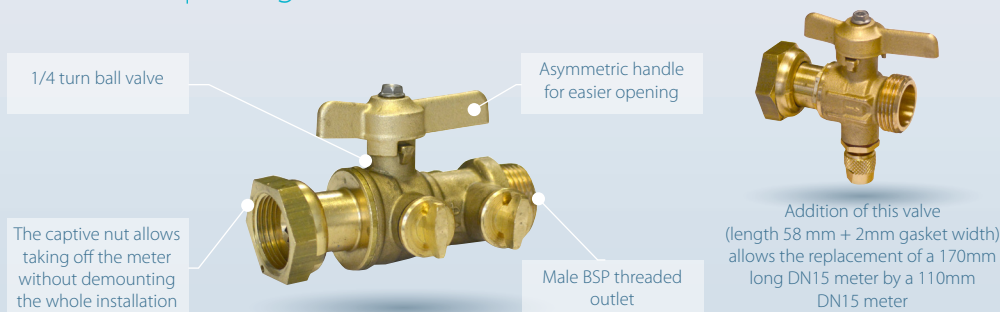
▶ See p. 99

1157/RC
9157

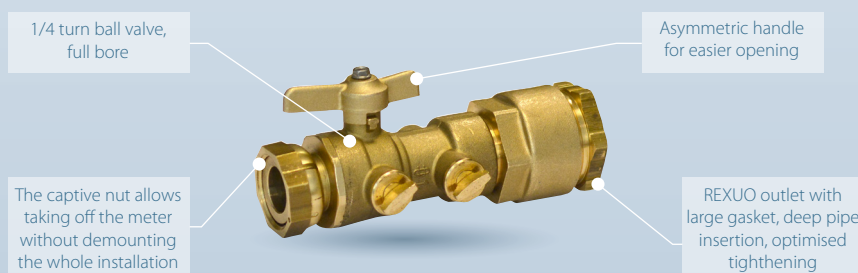
SPHERUO water meter valve

Straight meter valve - Male threaded outlet with no-return valve

1157/RC | Straight SPHERUO meter outlet valve



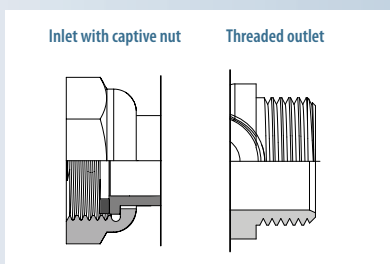
9157 | Straight SPHERUO meter outlet valve



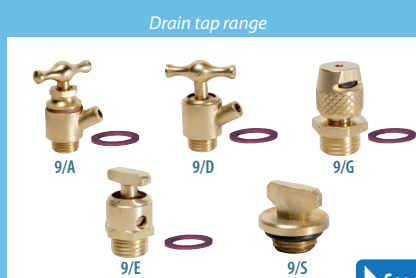
PRODUCT

- ▶ Meter outlet valve combining 5 essential functionalities in narrow meter boxes :
 - potable water delivery point allowing the client to cut off the supply during works at their home
 - the water network is protected against polluted backflows thanks to the integrated no-return valve at the outlet
 - bleeding the installation allows the extraction of accumulated air and draining of the customer's installation
 - pressure measurement upstream the no-return valve (not on 58mm version)
- ▶ **The ball obturator** revolves between two PTFE seats which warrants total leakproofness

FOCUS | VALVE INLET AND OUTLET



ASSOCIATED PRODUCTS



▶ See p.103

SECUR STOP



▶ See p.97

> Temporary control lock device. Can be fitted on all SPHERUO water meter valves.

Valve and accessories	brass EN 1216X
Swivelling nut	brass EN 12168 - BSP female threaded ISO 228-1 - NF E 03-005
Obturator	nickel plated brass ball NF EN 1216X
Seat	PTFE
Handle axis	brass EN 1216X
No-return valve	pollution prevention function, acetal, to NF P 43-007

VALVES AND FITTINGS
100% BRASS

WIDE PRODUCT RANGE

PRESSURE
10 BAR

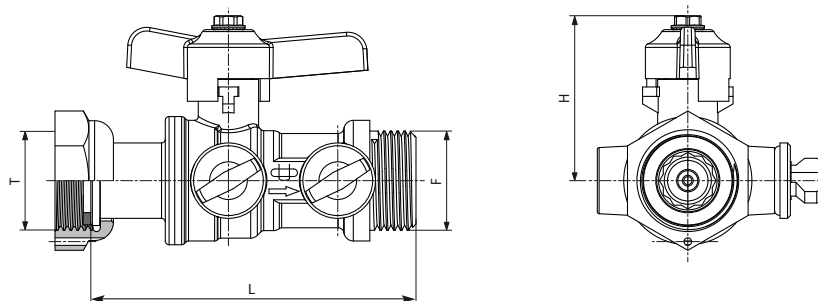
FULL BORE

Water tightness tests of valve body and ball in accordance with NF E 29-311 - ISO 5208: PN 25. Strength test of captive nuts in accordance with NF P 43-007 standard. Non-return valve test in accordance with NF P 43-007. Test certificates in accordance with current standards are available on request

SPHERUO water meter valve

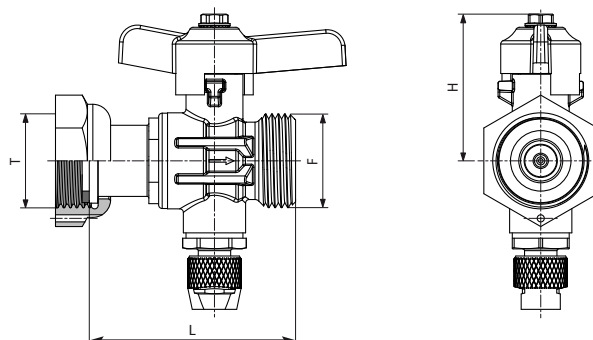
Straight meter valve - Male threaded outlet with no-return valve

1157/RC - Straight Spheruo meter outlet valve



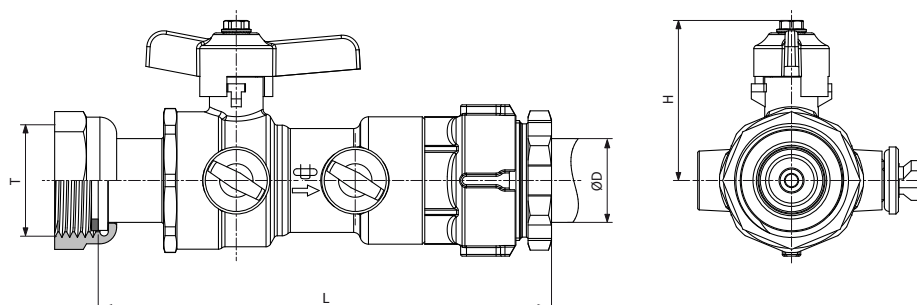
Code	DN	F (Thread)	T (Thread)	L (mm)	H (mm)	Weight (kg)
1157.RC1520	15	3/4"	3/4"	86	44	0,40
1157.RC2020	20	3/4"	1"	115	48	0,68
1157.RC2026	20	1"	1"	101	48	0,59

58 mm version



Code	DN	F (Thread)	T (Thread)	L (mm)	H (mm)	Weight (kg)
1157.RC1558	15	3/4"	3/4"	58	41	0,28

9157/RC - Straight Spheruo meter outlet valve



Code	DN	T (Thread)	D (mm)	L (mm)	H (mm)	Recommended torque (daN.m)	Weight (kg)
9157.RC2025	20	1"	25	135	48	mechanical	0,77
9157.RC2032	20	1"	32	146	48	3	0,94

SECUO STOP and key for SECUO device

Universal locking device for SPHERUO meter cocks DN15 and 20



For DN15 or DN20 valves

PRODUCT

- Can be set on **all SPHERUO valves** with standard control lever
- Ideal tool for the network manager, prevents opening and closing of existing valves :
 - Blocks the water supply in case of change of subscriber
 - Forces a permanent supply in order to prevent meter disposal without inundation risk
 - Allows to make the valve accessible again for the subscriber when these situations have come to an end
- Individually packed
- Supplied without key

2035/D | Key for SECUO device

SECUO key 2035.DV15C is also used for permanent SECUO locking devices (DV)



ONE KEY ONLY FOR EACH NETWORK MANAGER

FOCUS | INSTRUCTIONS FOR INSTALLATION IN 3 SIMPLE STEPS

To start with, check if male and female flats match.

Return to original configuration in two steps :

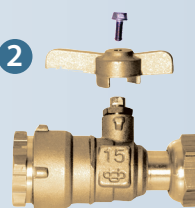
- Unscrew and remove the SECUO-STOP lock by means of the SECUO key
- Put the original handle on again and tighten the screw

1



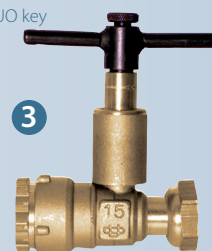
Check if the ball is in the right position before locking

2



Unscrew and remove the original handle

3



Position and fasten the SECUO STOP locking device with the dedicated key

Body	brass EN 1216X / EN 1982
Screw	stainless steel A2 (304)

VALVES AND FITTINGS
100% BRASS

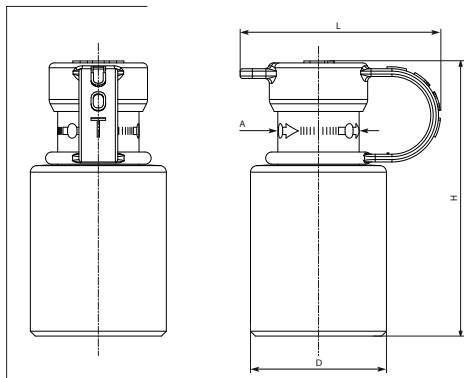
UNIVERSAL DEVICE FOR SPHERUO VALVES

ONLY ONE KEY PER MANAGER
† x1

SECUO STOP and key for SECUO device

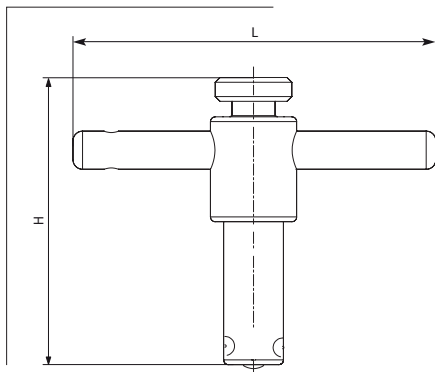
Universal locking device for SPHERUO meter cocks DN15 and 20

35 - SECUO STOP



Code	Ø A (mm)	Ø D (mm)	L (mm)	H (mm)	Weight (kg)
35.15	17	28	45	56	0,15

2035/D - Key for SECUO device



Code	DN	L (mm)	H (mm)	Weight (kg)
2035.DV15C	15-20	60	60	0,09
2035.DV15CL	15-20	100	52	0,09
2035.DV40C	25-30-40	140	63	0,16

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FURTHER INFORMATION

COMPLEMENTARY RANGE

You can complete your installations with a large choice of accessories :

- Check valve
- Meter setting
- Meter boxes

Meter
setting



1956 : short check
valve (58 mm)



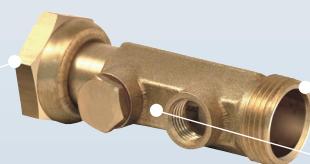
▶ See p. 99

Check valve

DN15 (1956) - DN 15 and 20 (1996) - DN15 to 40 (1916)

1916 | Straight check valve

Easy meter installation or replacement by draw-down of the swivelling nut. The flat gasket (supplied) guarantees leakproofness.



Male threaded outlet with gasket surface

Installation : no positioning constraint - the spring mechanism inside the check valve works in both directions

Inlet and outlet $\varnothing \frac{3}{4}$ " to 2" for connections DN15 to DN40 mm

PRODUCT

- ▶ The check valve, installed at the outlet of hot and cold water meters, protects the water supply against polluted backflows
- ▶ All parts of the check valve are compatible :
 - No corrosion risk nor electrolytic reaction in aggressive environments or with water treated for pipeline disinfection (e.g. potassium permanganate or sodium hypochlorite)
- ▶ For fluid temperatures below 40°C (1956) or 65°C (1916 and 1996)
- ▶ **Flat gasket supplied**
- ▶ Individually packed in plastic bag

1956 | Straight check valve, length 58 mm

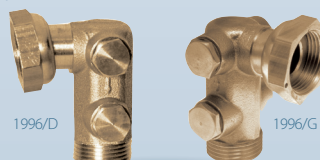
Inlet and outlet $\varnothing \frac{3}{4}$ "



Equipped with :
 - Inlet drain with 1/8" female thread for pressure tapping or water sampling
 - Outlet drain with 1/8" female thread for draining
 - Both drains have captive caps

1996 | Elbow check valve 70 mm

Elbow valve $\varnothing \frac{3}{4}$ " and 1"



Equipped with :
 - Inlet drain* with 1/4" female thread for pressure tapping or water sampling
 - Outlet drain* with 1/4" female thread for drain tap
 - (*) equipment possibilities overleaf

ASSOCIATED PRODUCTS

Control and operation equipment (1916 and 1996)



▶ See p.103

▶ See p.71

HYDRAULIC PERFORMANCES

Performances (1916 and 1996) :

- The cartridge reduces head losses and improves the fluid flow compared to standard requirements for the following types :
 - DN15 = $\varnothing$ 20 mm
 - DN20 = $\varnothing$ 25 mm
- Guaranteed leakproofness under back pressure : (1916, 1956 et 1996)
 - minimum : 3mbar
 - maximum : 16 bar

Body	brass EN 1216X
Swivelling nut	brass EN 1216X
Flat nut ring	fiber
Check mechanism	polyoxymethylene ISO 1043-1

Tests according to NF P 43-007 standard. Test certificates available on request.

VALVES AND FITTINGS
100% BRASS

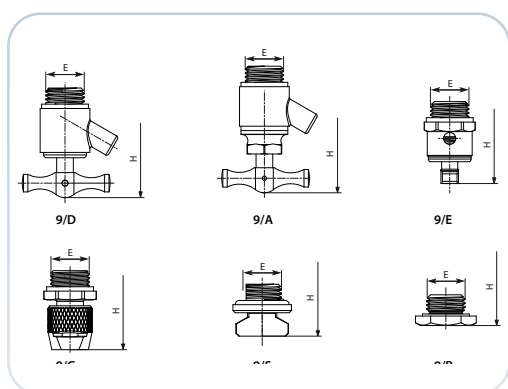
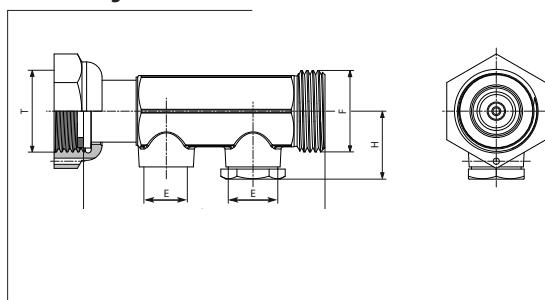
WIDE PRODUCT RANGE

PRESSURE
10 BAR

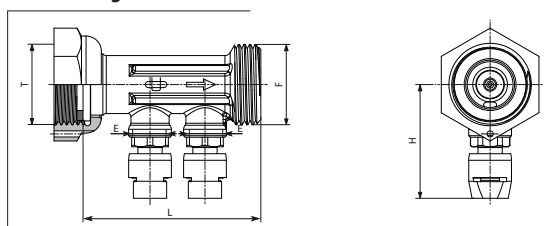
Check valve

DN15 (1956) - DN15 and 20 (1996) - DN15 to 40 (1916)

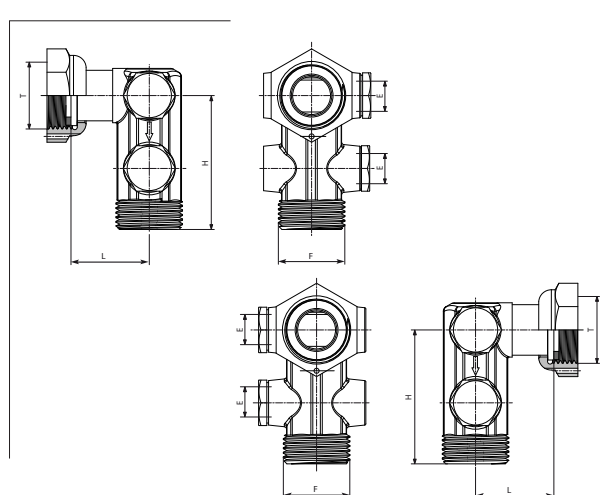
1916 - Straight check valve



1956 - Straight check valve



1996 - Elbow check valve



Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	Weight (kg)
Check valve with 1 plug 9B						
1916.15	15	3/4"	3/4"	22	79	0,19
1916.20	20	1"	1"	25	89	0,24
1916.25	25	1 1/4"	1 1/4"	32	109	0,59
1916.30	30	1 1/2"	1 1/2"	36	111	0,72
1916.40	40	2"	2"	39	121	1,01

Check valve with 2 plugs 9B						
1916.152B	15	3/4"	3/4"	22	79	0,20
1916.202B	20	1"	1"	25	89	0,25
1916.252B	25	1 1/4"	1 1/4"	32	109	0,60
1916.302B	30	1 1/2"	1 1/2"	36	111	0,73
1916.402B	40	2"	2"	39	121	1,02

Check valve with 2 captive taps 9D						
1916.152D	15	3/4"	3/4"	50	79	0,26
1916.202D	20	1"	1"	53	89	0,31

Check valve with 2 drain taps 9E						
1916.152E	15	3/4"	3/4"	41	79	0,22
1916.202E	20	1"	1"	44	89	0,27

Check valve with 1 plug 9B / 1 drain plug 9S							
				9B	9S		
1916.15BS	15	3/4"	3/4"	22	30	79	0,20
1916.20BS	20	1"	1"	25	33	89	0,25

Check valve with 1 plug 9B / 1 drain tap 9E							
				9B	9E		
1916.15BE	15	3/4"	3/4"	22	41	79	0,21
1916.20BE	20	1"	1"	25	44	89	0,26

Check valve with 2 drain taps 9G						
1916.152G	15	3/4"	3/4"	40	79	0,21
1916.202G	20	1"	1"	43	89	0,26
1916.252G	25	1 1/4"	1 1/4"	50	109	0,61
1916.302G	30	1 1/2"	1 1/2"	54	111	0,74
1916.402G	40	2"	2"	57	121	1,03

Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	Weight (kg)
1956.152G	15	3/4"	3/4"	37	58	0,16

Code	DN	F (Filetage)	T (Taraudage)	H (mm)	L (mm)	Poids (kg)
Elbow check valve with 2 plugs 9B on the left side						
1996.15G2B	15	3/4"	3/4"	53	31	0,22
1996.20G2B	20	1"	1"	64	38	0,36
Elbow check valve with 2 plugs 9B on the right side						
1996.15D2B	15	3/4"	3/4"	53	31	0,24
1996.20D2B	20	1"	1"	64	38	0,36

2019/B
2020/B

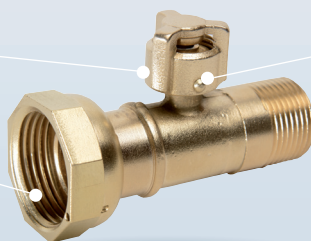
Drain sleeve with captive cap

DN15 and 20 (2019/B) - DN15 to 40 (2020/B)

2019/B | Reducer drain sleeve with captive cap

Manual drain system
for meter outlets

Easy meter removal by
drawing the swivelling
nut back without
taking the installation
down



Captive drain cap,
leakproof through
metal/rubber
contact

2019/B : Outlet thread size is smaller than nut thread size

2020/B | Drain sleeve with captive cap



2020/B : Outlet and nut have the same thread size

PRODUCT

- ▶ Captive drain cap
- ▶ Compatible materials, don't alter the water quality
- ▶ Easy to install - thanks to the swivelling nut, no need to remove the service connection

ASSOCIATED PRODUCTS

Check valve range



▶ See p. 99

Straight or elbow check valve,
different drain types available

Meter valve range



▶ See p.87 to 96

Male threaded inlet or REXUO,
¼ turn or multiturn

Body	brass EN 1216X – BSP male threaded ISO 228-1
Swivelling nut	brass EN 1216X – BSP male threaded ISO 228-1
Drain cap	brass EN 1216X
Cap rivet	
Disc	rubber EN 681-1

Body leakproof test following NF E 43-001. Mechanical strength test of swivelling nuts following NF P 43-007.
Test certificates available on request.

VALVES AND
FITTINGS
100%
BRASS

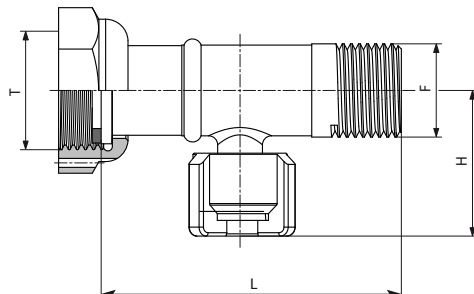
**WIDE
PRODUCT
RANGE**

PRESSURE
10
BAR

Drain sleeve with captive cap

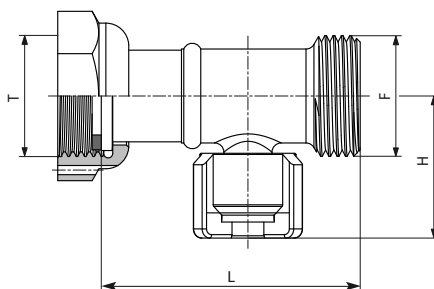
DN15 and 20 (2019/B) - DN15 to 40 (2020/B)

2019/B - Reducer drain sleeve with captive cap



Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	Weight (kg)
2019.B15	15	1/2"	3/4"	33	67	0,16
2019.B20	20	3/4"	1"	34	75	0,22

2020/B - Drain sleeve with captive cap



Code	DN	F (Thread)	T (Thread)	H (mm)	L (mm)	Weight (kg)
2020.B15	15	3/4"	3/4"	31	57	0,16
2020.B20	20	1"	1"	34	60	0,20
2020.B25	25	1 1/4"	1 1/4"	40	78	0,37
2020.B30	30	1 1/2"	1 1/2"	42	79	0,43
2020.B40	40	2"	2"	47	82	0,61

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FURTHER INFORMATION

COMPLEMENTARY RANGE

You can complete your installations with a large choice of accessories :

- Check valve
- Meter setting
- Meter boxes
- Meter replacement sleeve

Meter
setting



3916 : Brass meter
replacement sleeve



Drain tap 1/4"

For water meter and house installation ball valves with 1/4" female threaded drain, ISO 228-1

9/A | Drain tap with captive handle and O-ring



Handle control – inclined outlet – O-ring supplied

9/D | Drain tap with captive valve screw



Handle control – inclined outlet – O-ring supplied

9/E | Drain tap with captive valve screw



Handle control – drain hole in valve body – O-ring supplied

9/G | Drain tap with captive valve screw



Knurled screw control, fiber ring supplied.
Easy to mount

9/S | Plug



Plug with control bar, O-ring supplied

ASSOCIATED PRODUCTS

Drain valves range



3236-3238

► See p.93

Non-return valves range



Straight or elbow valve, different control types available

► See p. 99

Body, control, spindle, handle and pin	brass EN 12164
Seat washer	rubber EN 681-1
Flat ring	fiber
O-ring	nitrile

VALVES AND FITTINGS
100% BRASS

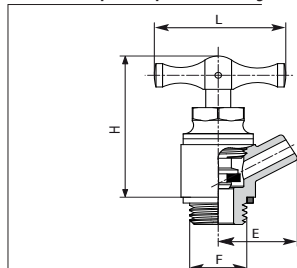
PRESSURE
10 BAR

WIDE
PRODUCT
RANGE

Drain tap 1/4"

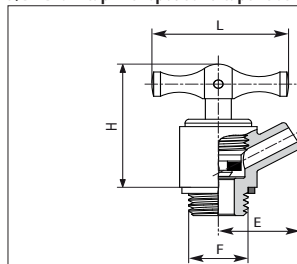
For water meter and house installation ball valves with 1/4" female threaded drain, ISO 228-1

9/A - Drain tap with spout and o-ring



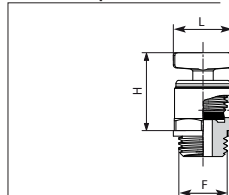
Code	F (Thread)	E (mm)	H (mm)	L (mm)	Weight (kg)
9.A	1/4"	18	37	30	0,05

9/D - Drain tap with spout and captive screw



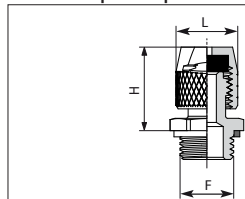
Code	F (Thread)	E (mm)	H (mm)	L (mm)	Weight (kg)
9.D	1/4"	18	31	30	0,04

9/E - Drain tap with drain hole



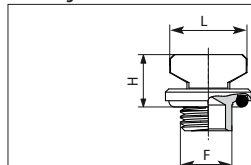
Code	F (Thread)	H (mm)	L (mm)	Weight (kg)
9.E	1/4"	22	16	0,02

9/G - Drain tap with captive valve screw



Code	F (Thread)	H (mm)	L (mm)	Weight (kg)
9.G	1/4"	21	15	0,02

9/S - Plug with control bar and o-ring



Code	F (Thread)	H (mm)	L (mm)	Weight (kg)
9.S	1/4"	12	18	0,02

Straight ball valve

Brass handle - DN 15 to 40

Tarif 2025

Two female threaded ends

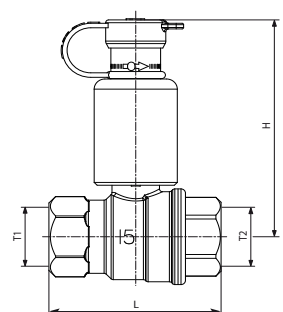
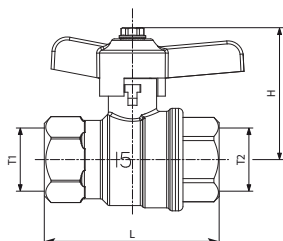


With SECUO control

PRODUCT

- ▶ ¼ turn ball valve, with massive, **full bore ball**
- ▶ **Ball inserted** between PTFE seats for **complete tightness**
- ▶ **Compatible material**, no influence on water quality, even in aggressive environments
- ▶ Asymmetric brass handle **facilitates opening and shut-off**
- ▶ DN15 to DN40

230 - Double female valve



Code	DN	T1 (Thread)	T2 (Thread)	H (mm)	L (mm)	Weight (kg)
230.15	15	1/2"	1/2"	44	58	0,25
230.20	20	3/4"	3/4"	48	71	0,40
230.26	25	1"	1"	63	80	0,64

SECUO control

Code	DN	T1 (Thread)	T2 (Thread)	H (mm)	L (mm)	Weight (kg)
230.15DV	15	1/2"	1/2"	77	58	0,34
230.20DV	20	3/4"	3/4"	79	71	0,48
230.26DV	25	1"	1"	96	80	0,71
230.33DV	32	1"1/4	1"1/4	102	90	0,99
230.40DV	40	1"1/2	1"1/2	116	102	1,58

For Nickel-plated valves product code ends with "NV" instead of "DV"

Body & nipple	brass NF EN 12164/ NF EN 1982 – BSP threaded ISO228-1 NF E 03-005
Ball	nickel plated brass ball NF EN 1216X
Seat	PTFE
Valve control	screw : SS A2 (304) – packing : PTFE – other components : brass EN 1216X. handle : brass EN 1216X / EN 1982

MATERIAL
100%
BRASS

PRESSURE
16
BAR

Leakproof test of body and ball in accordance with ISO 5208: PN25. Test certificates available on request.

Quality Management system certified to ISO 9001 : 2015

> Design

> Industrial mastery

> Recommendation and marketing of complete distribution systems for drinking water and other fluids.

> Renewed in 2024



➤ General sales conditions

CATALOGUES

All elements figuring in our catalogues, technical leaflets and advertisements are for information only and can not be used against us. The graphics, the measurements and weight of our products may be subject to change without prior notice according to technical developments and do not bind the company's liability.

PRICE OFFERS

Unless stated otherwise, all our price offers are valid one month from their date of issue. The ensuing orders involve complete adherence to these general sales conditions excluding all other documents.

ORDERS

All presented orders are subject to a prior agreement between our sales department and the buyer, either by a special offer or by the issue of terms.
All first orders are subject to prepayment and to the remittance of the buyer's business and banking references, in order to set up his account.
Any particular note of the buyer on his order form, all commitments on part of our agents or representatives, will only be binding when confirmed by our acknowledgement of receipt.
Orders of an amount of less than **150 Euros**, tax not included, will not be honoured.

PRICES

Our prices are established as per the conditions of the catalogue in force on the day of dispatch of the goods, in Euros, ex works, tax and packaging not included.

TRANSPORT

The delivery time indicated by our sales department or figuring on our acknowledgements of receipt is for information only. Any delay that might occur during the manufacturing cannot lead to the cancellation of the order. It cannot be subject to penalties for late delivery or any other compensation either.

In case of force majeure (strike, war, requisitioning etc.) or of serious damage hitting our Company, we will be freed by rights of all commitments taken by our staff or by our acknowledgements of receipt.

The goods always travel at the buyer's risks, whatever mode of transport he chose. Without specifying, the goods travel by the mode of transport we choose. Any delay due to the transport time does not bind the company's liability; it is the buyer's responsibility to contact the carrier for all disputes after the goods left our works.
In case of transport dispute, it is the buyer's responsibility to take all the necessary steps in writing and within forty-eight hours against the carrier.

When the mode of transport is chosen by us, its costs are transferred to our invoices according to the most attractive quality-price ratio. All inland orders of an amount superior to **600 Euros**, tax not included, are free of transport and packaging charges. Special packing will be invoiced, even if the order amount is superior to **600 Euros** ex VAT. The transport and packaging costs for divided deliveries, where the amount of each delivery is inferior to **600 Euros** ex VAT, will be invoiced.

All export orders are considered ex works Saint-Mihiel.

Any claims regarding our supplying must be made in writing within two weeks after the delivery date.

PROPERTY CLAUSE (article L. 621-122 of the French Commercial Law)

The goods figuring on the invoices and delivery slips are sold with a clause that explicitly subordinates the transfer of property to the full payment of the invoice on the agreed date of payment. Notwithstanding, the delivery of the goods involves the transfer of all risks of loss and deterioration, as well as of the damages they may cause, to the buyer. The buyer will take out an insurance covering the risks that may come up as from the delivery of the goods.

Before full payment of the goods, the buyer must single out the delivered goods and not mix them with other goods coming from other suppliers.

In case of garnishment or any other intervention on the goods by a third party, the buyer must immediately inform HUOT, in order to allow us to object and to preserve our rights. Furthermore, the buyer will not pawn nor leave as security the goods that are subject to the property clause.

The lack of full payment of the invoice can lead HUOT to claim the goods immediately. If the goods are not singled out, HUOT may demand their reimbursement or take back those that are still in stock.

Furthermore, in case of the buyer's failure to fully pay the invoice at the date of payment, HUOT may annul the sale if we think it fit, without further notice than that foreseen for overdue payments, with the possibility to take back the goods.

Moreover, the buyer will owe 30% of the due sum to the seller for a penalty, after deduction of the possible down payments.

GUARANTEE

All our material produced by ourselves is guaranteed for a period of one year as from the date of dispatching.

The guarantee covers the fabrication faults or material defects, as well as the labour costs in our works. It is limited to the replacement of the piece acknowledged defective by our services and can by no means lead to any claim for compensation.
In any case, the transport remains at the buyer's cost.

The guarantee does not apply when our qualified services acknowledge the deterioration being a consequence of:

- normal wear due to use
- accidents resulting from neglect
- lack of supervision
- lack of upkeep
- failure to respect the standards
- an installation that is not in accordance with the professional regulations and rules
- an inefficient storage

PAYMENT

Our invoices are payable to our head office in Saint-Mihiel, France.

Our invoices support no guarantee deduction.

Without special agreement, the term of payment is within 30 days from the date of delivery of the goods or service. In case of payment in arrears, penalty interests run by rights as from the date of payment agreed between us and figuring on the invoice till the date of full payment. The penalty interest rate is the same as the rate applied by the European Central Bank at its most recent refinancing operation, increased by 10 percentage points. In addition, a fixed indemnity of 40 Euros is due for recovery costs without prejudice to other, complementary indemnities.

All invoices of an amount inferior or equal to **150 Euros**, are payable by cheque at receipt.

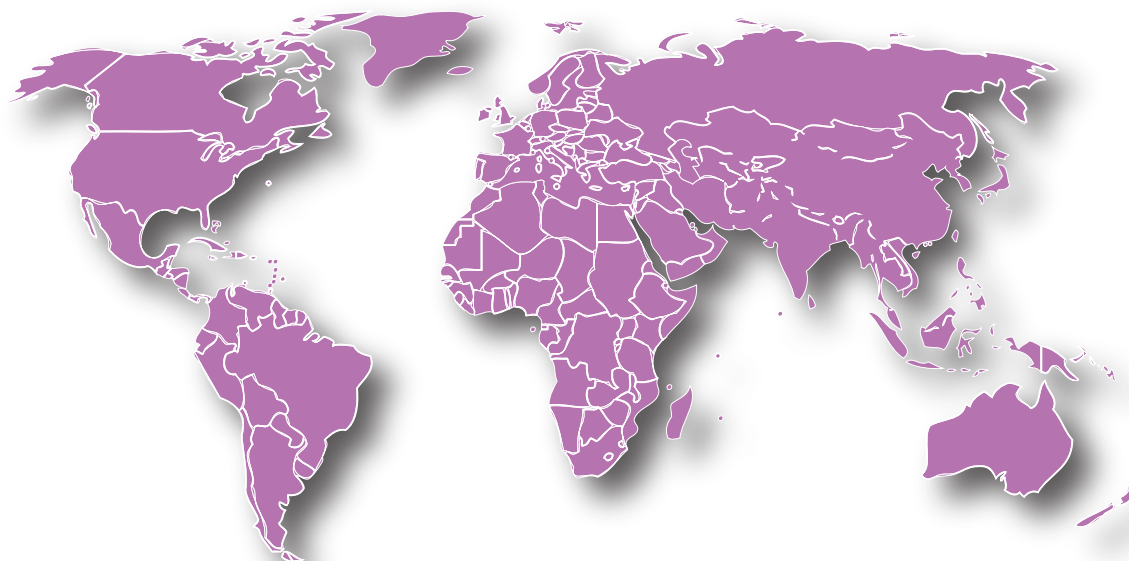
REMARKS

No sales transaction can occur without the buyer's prior acknowledgement and countersign of a copy of these general sales conditions.

Any dispute regarding our sales and of whatever kind they may be, will be submitted de facto and by rights to the jurisdiction of the commercial court of our head office.



RUNNING BUSINESS IN MORE THAN 40 COUNTRIES



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