



HAWLE - **ZAK System**

the threadless, restraint jointing system



HAWLE. **MADE FOR GENERATIONS.**



HAWLE - **ZAK System**

DESIGN FEATURES

- the threadless, restraint jointing system for service connections
- integrated in Pipe Saddles, Service Valves and Fittings
- PN 16

SIMPLE INSTALLATION

- push into
- rotate for 90°
- pull out
- fit the snap ring



ZAK-sockets d 34 for pipe drilling Ø 25 mm
ISO-push fit from PE-pipes Ø 25 mm - Ø 50 mm

ZAK-sockets d 46 for pipe drilling Ø 35 mm
ISO-push fit from PE-pipes Ø 32 mm - Ø 63 mm

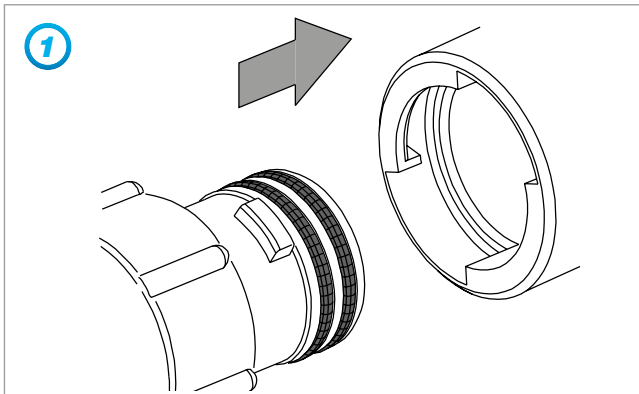
HAWLE - QUALITY-GUARANTEE



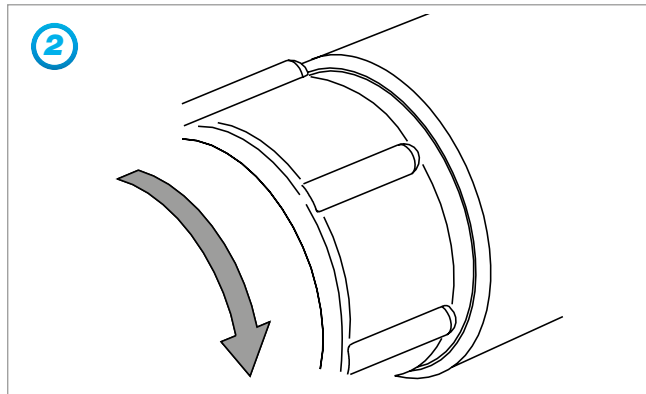
kiwa



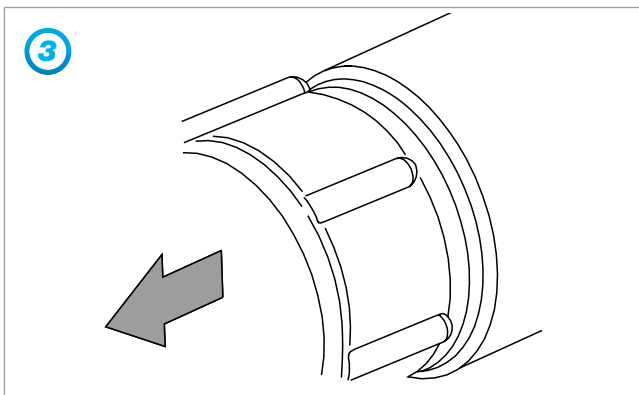
HAWLE - **ZAK System ASSEMBLY INSTRUCTIONS**



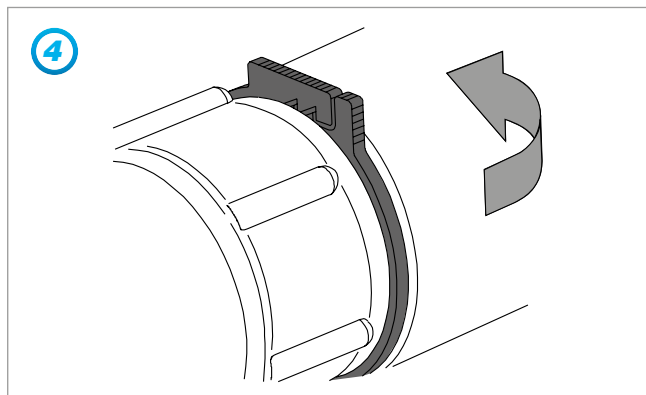
Grease the O-rings of the spigot end. Push the ZAK-spigot end into the ZAK-socket to the stop.



Rotate the ZAK-Fitting for 90° clockwise to the stop.

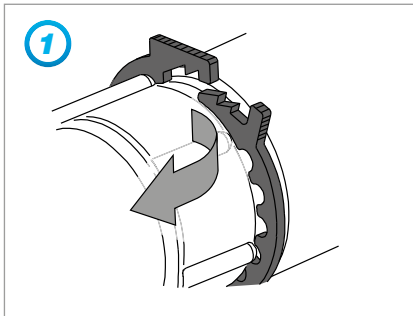


Pull out the ZAK-Fitting to the stop (approx. 4 mm)

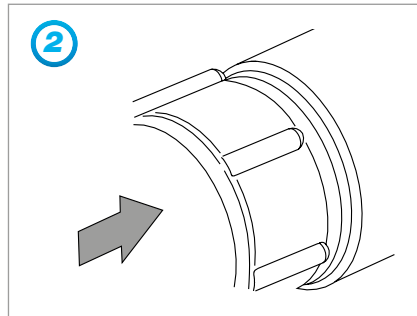


Fit the snap ring in the gap and push the locking ends together.

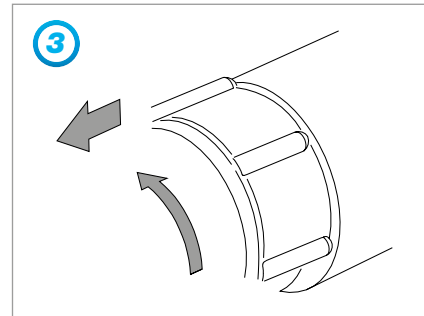
HAWLE - **ZAK System DISMANTLING INSTRUCTIONS**



Open the snap ring, widen it and pull it back.



Push in the ZAK-Fitting to the stop (approx. 4 mm).

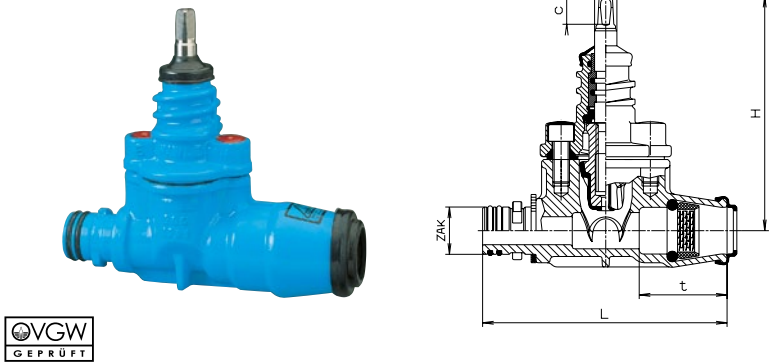


Turn the ZAK-Fitting for 90° counter-clockwise to the stop and pull it out of the ZAK-socket.

HAWLE - ZAK SYSTEM RANGE

ZAK - service valve

- with ZAK-spigot and ISO socket
- for lateral tapping



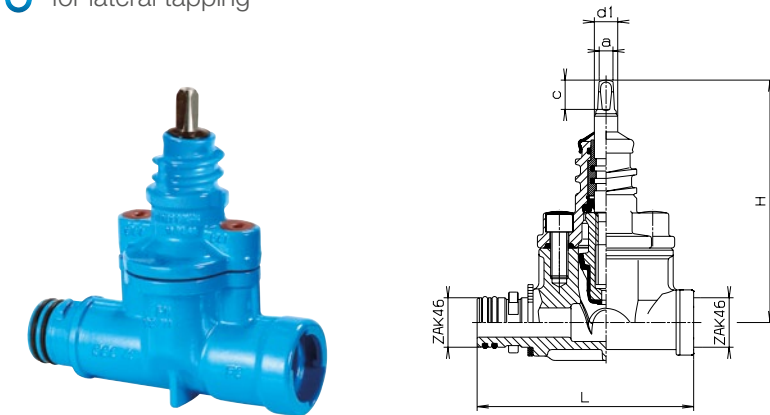
No. 2810

ZAK 34								
DN	PE-pipe Ø	H	L	t	a	c	d1	Weight
¾"	25	168	173	52	10,3	20	16	2,35
1"	32	168	175	63	10,3	20	16	2,50
1¼"	40	200	205	76	10,3	20	16	2,90
1½"	50	200	232	91	10,3	20	16	3,15

ZAK 46								
DN	PE-pipe Ø	H	L	t	a	c	d1	Weight
1¼"	40	200	230	76	10,3	20	16	4,00
1½"	50	200	236	91	10,3	20	16	4,30
2"	63	270	267	103	10,3	20	16	4,80

ZAK - service valve

- with ZAK-spigot and ZAK-socket
- for lateral tapping

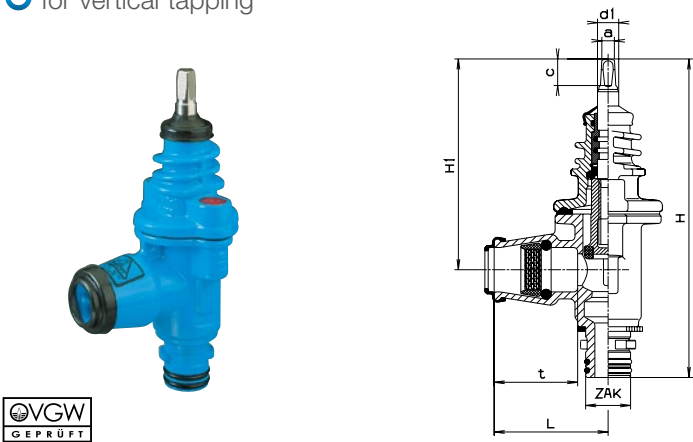


No. 2811

ZAK 46						
DN	H	L	a	c	d1	Weight
1½"	200	209	10,3	20	16	4,00

ZAK - service valve

- with ZAK-spigot and ISO socket
- for vertical tapping



No. 3160

ZAK 34				
DN	PE-pipe Ø	H	H1	L
¾"	25	240	159	80
1"	32	240	159	80

ZAK 34					
DN	t	a	c	d1	Weight
¾"	52	10,3	20	16	2,30
1"	63	10,3	20	16	2,40

ZAK 46				
DN	PE-pipe Ø	H	H1	L
1¼"	40	272	190	106
1½"	50	286	190	220

ZAK 46					
DN	t	a	c	d1	Weight
1¼"	76	10,3	20	16	4,15
1½"	91	10,3	20	16	4,25

HAWLE - ZAK SYSTEM RANGE

ZAK - service valve

- with ZAK-spigot and ISO socket
- for vertical tapping



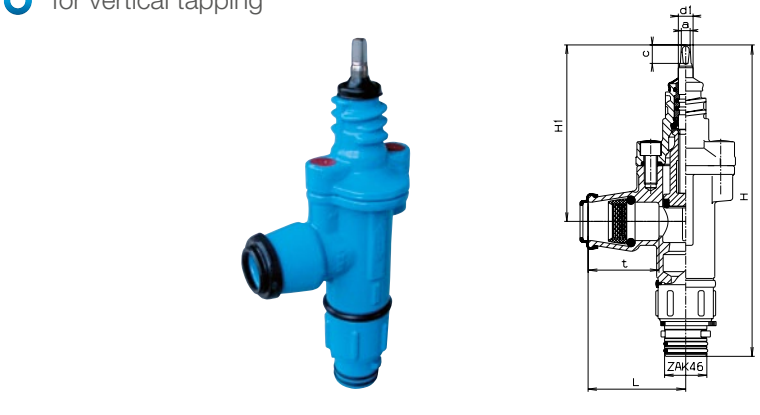
No. 3161

ZAK 46			
DN	H	H1	L
1½"	297	190	69

ZAK 46				
DN	a	c	d1	Weight
1½"	10,3	20	16	3,90

ZAK - service valve

- 360° swivel type, with ZAK-spigot and ISO socket
- for vertical tapping



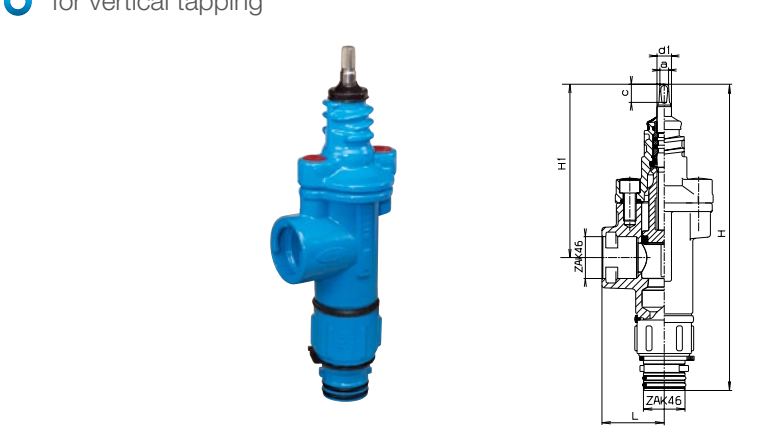
No. 3162

ZAK 46				
DN	PE-pipe Ø	H	H1	L
1½"	40	355	190	106

ZAK 46					
DN	t	a	c	d1	Weight
1½"	76	10,3	20	16	4,85

ZAK - service valve

- 360° swivel type, with ZAK-spigot and ZAK socket
- for vertical tapping



No. 3163

ZAK 46			
DN	H	H1	L
1½"	355	190	69

ZAK 46				
DN	a	c	d1	Weight
1½"	10,3	20	16	4,53

HAWLE - **ZAK SYSTEM RANGE**

ZAK - HAKU-shut-off saddle

- for lateral and vertical tapping
- of PE and PVC pipes

No. 5320

ZAK 34, for pipe drilling Ø 25 mm

Pipe Ø	H	L	L1	Weight
63	107	135	100	2,90
90	73	150	110	3,35
110	73	170	120	3,75
140	76	208	120	5,00
160	80	230	120	5,85
225	83	310	120	7,65

ZAK 46, for pipe drilling Ø 35 mm

Pipe Ø	H	L	L1	Weight
90	72	150	110	3,55
110	74	170	120	4,00
140	79	208	120	5,20
160	74	230	120	5,95
200	83	285	120	6,90
225	86	310	120	7,70
250	83	350	180	13,15
280	83	380	180	13,40

No. 5260

ZAK 46, for pipe drilling Ø 35 mm

Pipe Ø	H	L	L1	Weight
63	46	135	100	1,90
90	46	150	110	3,00
110	46	170	120	3,10
125	39	190	120	3,80
140	39	205	120	4,80
160	39	230	120	5,00
225	39	300	120	7,00

No. 5261

ZAK 34, for pipe drilling Ø 25 mm

Pipe Ø	H	L	L1	Weight
63	63	120	140	0,80
90	100	145	170	1,05
110	110	180	170	1,35
125	117	180	170	1,30
160	135	220	170	1,60
225	167	295	170	2,30

ZAK 46, for pipe drilling Ø 35 mm

Pipe Ø	H	L	L1	Weight
90	100	145	170	1,05
110	110	180	170	1,35
125	117	180	170	1,30
160	135	220	170	1,60
225	167	295	170	2,30

HAWLE - **ZAK SYSTEM RANGE**

ZAK - HAKU-Hawlinger

- for lateral and vertical tapping
- of PE and PVC pipes

No. 2310

No. 2305

only for vertical tapping (without illustr.)

ZAK 34, for pipe drilling Ø 25 mm, Dimensions No. 2310

Pipe Ø	H	L	L1	A	B	Weight
63	125	155	175	68	75	6,80
90	125	155	175	68	75	6,90
110	125	170	175	68	75	7,30
125	125	190	175	68	75	7,20
140	125	205	175	68	75	8,10
160	125	230	175	68	75	9,00
225	125	305	175	68	75	11,10

ZAK 46, for pipe drilling Ø 35 mm

Pipe Ø	H	L	L1	A	B	Weight
90	130	155	225	82	65	8,70
110	130	170	225	82	65	9,10
125	130	190	225	82	65	10,40
140	130	205	225	82	65	10,00
160	130	230	225	82	65	11,00
180	130	250	225	82	65	12,50
225	130	305	225	82	65	13,90

No. 3810

complete with straps and saddle seal

No. 3810G

without straps and saddle seal

When ordering please state DN, pipe o.d. and pipe material !

ZAK - Universal-shut-off saddle

- for lateral and vertical tapping
- of DCI, Steel- and AC pipes

ZAK 34, for pipe drilling Ø 25 mm Weight without strap

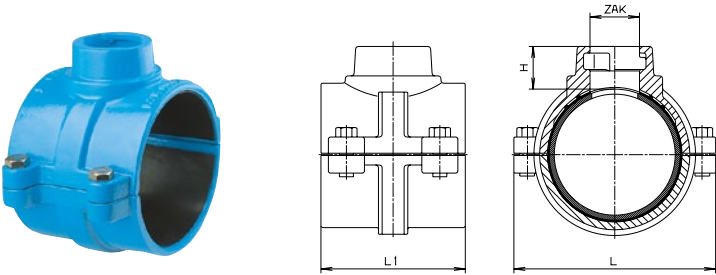
Pipe Ø	H	L	L1	Weight
65-500	83	200	112	2,50

ZAK 46, for pipe drilling Ø 35 mm

Pipe Ø	H	L	L1	Weight
65-500	86	200	112	3,00

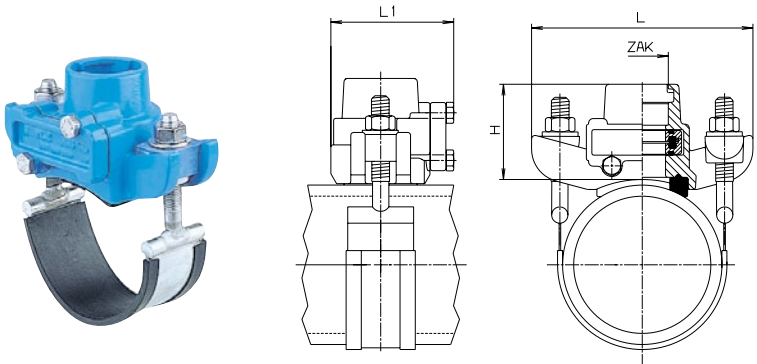
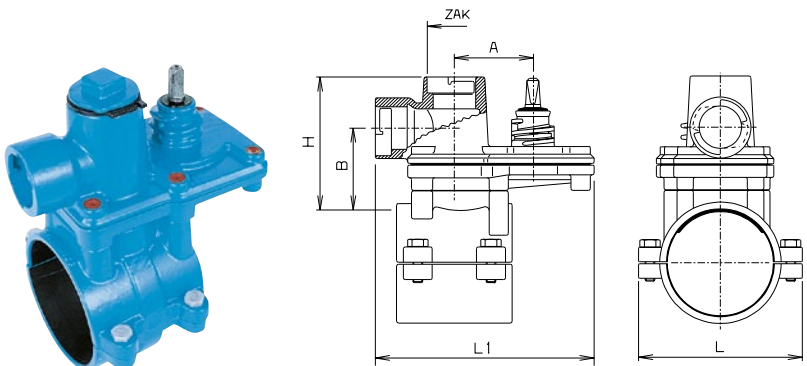
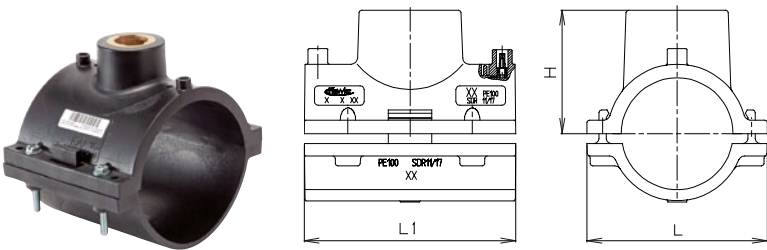
ZAK - HAKU-pipe saddle

- for lateral and vertical tapping
- of PE and PVC pipes



HA-WELD-fusion saddle

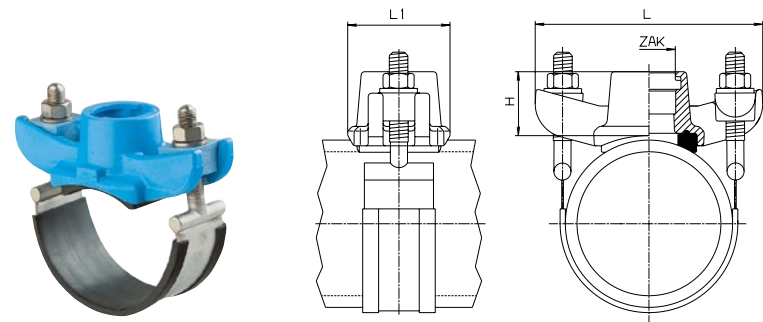
- with ZAK-sockets of PE pipes (of PE 100)
- ZAK-connection of brass



HAWLE - ZAK SYSTEM RANGE

ZAK - Universal pipe saddle

- for lateral and vertical tapping
- of DCI, Steel- and AC pipes



No. 3540
complete

No. 3540G
without straps and saddle seal

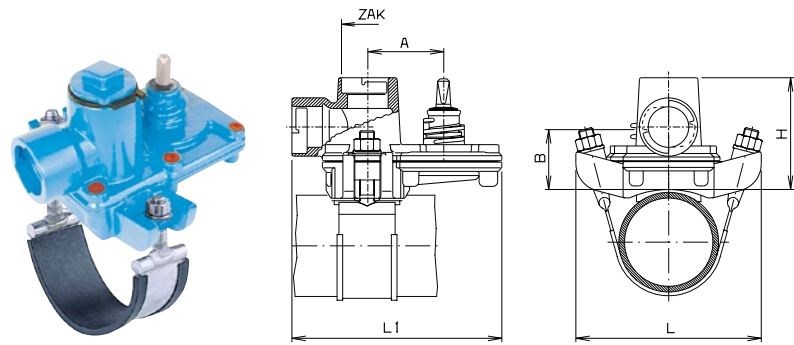
when ordering please state DN, pipe o.d.
and pipe material!

ZAK 46, for pipe drilling Ø 35 mm Weight without strap

Pipe Ø	H	L	L1	Weight
65-500	65	200	90	1,70

ZAK - Universal-Hawlinger

- for lateral and vertical tapping
- of DCI, Steel- and AC pipes



No. 2410
complete

No. 2410G
without straps and saddle seal

when ordering please state DN, pipe o.d.
and pipe material!

No. 2405
only for vertical tapping (without illustration)

ZAK 34, for pipe drilling Ø 25 mm, Dimensions No. 2410G

DN	H	L	L1	A	B	Weight
65-500	110	200	170	68	60	4,70

ZAK 46, for pipe drilling Ø 35 mm

DN	H	L	L1	A	B	Weight
65-500	120	200	225	82	65	6,10

Strap with saddle seal

- inclusive grip pieces, washers and nuts
- for all ZAK-saddles and ZAK-Hawlinger

No. 3110
DN 65-500

when ordering please state DN, pipe o.d.
and pipe material!



HAWLE - ZAK SYSTEM RANGE

ZAK - adaptor



ZAK	PE-pipe Ø	Weight
34	20	0,30
	25	0,40
	32	0,50
	40	0,70

ZAK	PE-pipe Ø	Weight
46	25	0,50
	32	0,70
	40	0,80
	50	1,20
	63	1,60

No. 6160

ZAK - elbow 90°

- 360° swivel type



ZAK	PE-pipe Ø	Weight
34	32	1,60
	40	1,80

ZAK	PE-pipe Ø	Weight
46	32	1,70
	40	1,90
	50	2,30
	63	2,80

No. 6465

ZAK - elbow 90° PE tail



ZAK	PE-pipe Ø	Weight
34	32	0,80
	40	0,90

ZAK	PE-pipe Ø	Weight
46	32	1,00
	40	0,65
	50	0,85
	63	1,30

No. 6479

ZAK - elbow 90°



ZAK	PE-pipe Ø	Weight
34	20	0,40
	25	0,55
	32	0,80
	40	1,10

ZAK	PE-pipe Ø	Weight
46	25	0,90
	32	1,20
	40	1,65
	50	2,10
	63	2,10

No. 6480

ZAK - PE tail



ZAK	PE-pipe Ø	Weight
34	32	0,50
	40	0,95

ZAK	PE-pipe Ø	Weight
46	32	0,60
	40	0,60
	50	0,90
	63	1,20

No. 6180

ZAK - ISO fitting

- sliceable with detachable socket



ZAK	PE-pipe Ø	Weight
34	32	1,05
	50	1,85

ZAK	PE-pipe Ø	Weight
46	32	1,10
	40	1,50
	50	1,70
	63	2,70

No. 6170

HAWLE - ZAK SYSTEM RANGE, ACCESSORIES

ZAK - elbow 90°

- 360° swivel type
- with ZAK-spigot and ZAK-socket



No. 6469

ZAK 46	
ZAK	Weight
46 - 46	1,10

ZAK - wall inlet fitting



No. 6992



No. 6993



No. 6994

ZAK 46					
Order No.	Outlet A	Outlet B	Version	L	Weight
6992	ZAK-Socket 46	IG 1¼"	casing ribbed	500	5,30
6993	ZAK-Socket 46	ZAK-Socket 46	casing ribbed	500	5,30
6994	ZAK-Socket 46	IG 1¼"	casing smooth	500	5,30

ZAK - thread adaptor

- ZAK-socket - external thread

ZAK 34 with conical external thread
ZAK 46 with cylindrical external thread *)

*) Cylindrical thread not suitable for usage with hemp or teflon.



No. 6189

ZAK 34, for pipe drilling Ø 25 mm		
Thread	L	Weight
1¼"	60	0,30
1½"	55	0,30

ZAK 46, for pipe drilling Ø 35 mm		
Thread	L	Weight
1¼"	67	0,30
1½"	67	0,60
2"	50	0,40

ZAK - reduction

- ZAK-spigot 46
- ZAK-socket 34



No. 6350

ZAK	L	Weight
46 - 34	58	0,35

ZAK - plug

- for ZAK-adaptor



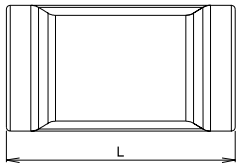
No. 6980

Weight	
0,25	
Weight	
0,45	

HAWLE - ZAK SYSTEM RANGE

ZAK - connector

- with double sockets

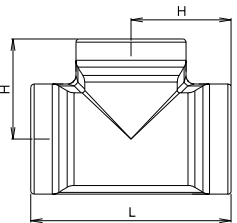


No. 6340

ZAK	L	Weight
46	120	1,00

ZAK - tee piece

- all socketed



No. 6540

ZAK	L	H	Weight
46	120	60	1,40

ZAK - drilling adapter

- for Hawle drilling machines



No. 5895

ZAK	Weight
34	0,75
46	1,10

O-ring



No. 6945

ZAK
34
46

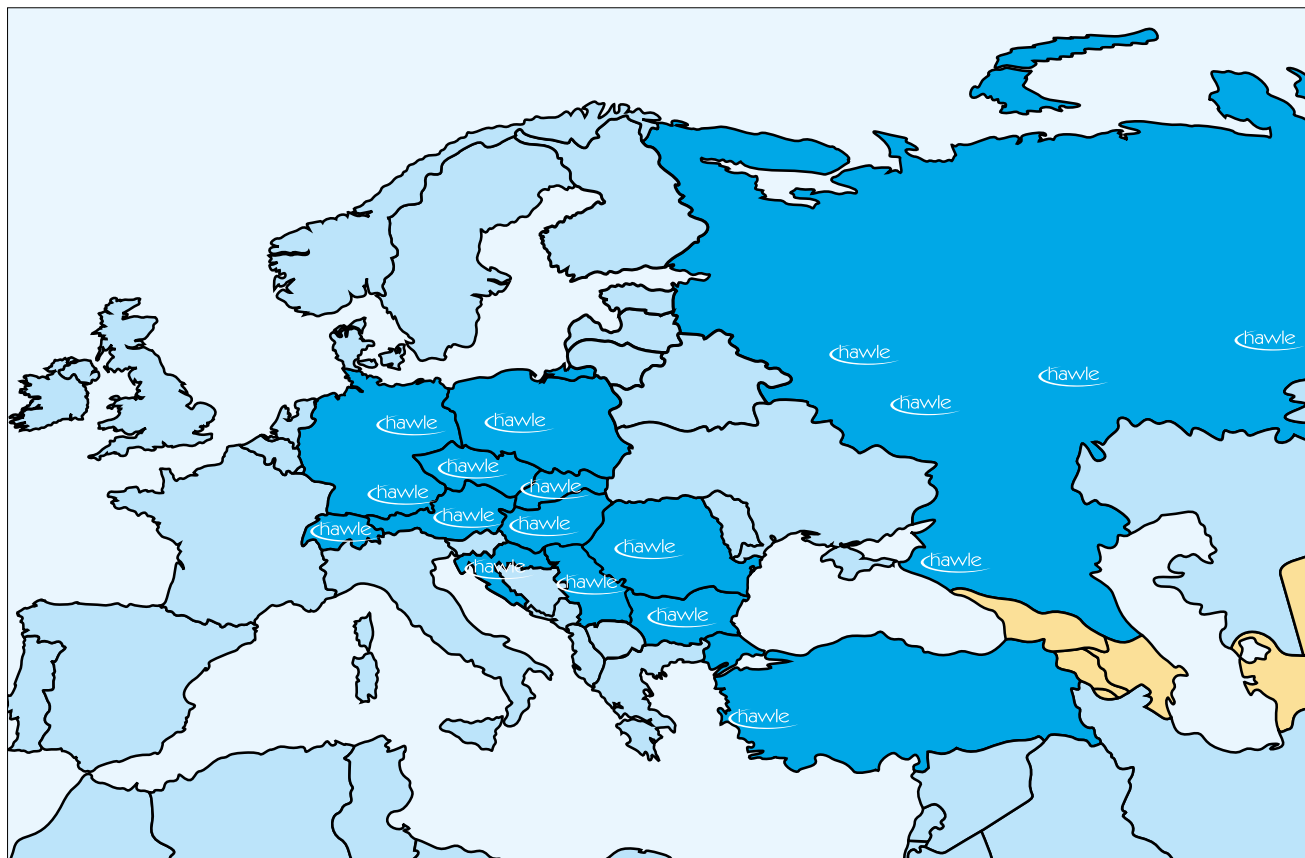
Securityring



No. 6970

ZAK
34
46

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E. Hawle Armaturenwerke GmbH

Wagrainer Straße 13
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Tel.: +43 (0)7672 - 72576-0
Fax.: +43 (0)7672 - 78464

E-mail: hawle@hawle.at
www.hawle.com