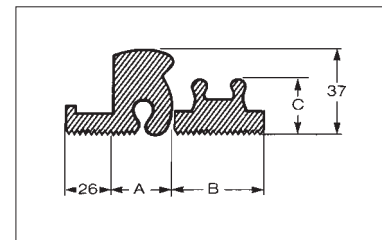


House penetration seals

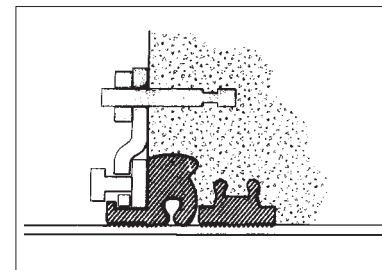
LEAD THROUGH SEAL, 6510

Our original Sealing Ring F801 is intended as a water seal when embedding a pipe in a concrete wall or floor. It is designed to function trouble free in both high and low water pressure conditions. The F801 is also a so called "movement friendly" seal which allows axial movement of the embedded pipe. The seal can be adjusted after embedment.



Dimension	A	B	C
110 - 180	25	40	22
200- 1000	31	50	27

Lead Through Seal F801 is intended for use as a seal between the pipe and the concrete wall where there is axial movement and/or a great risk of high ground water pressure.



Article No.

6510 +OD HDPE jacket pipe -000-000

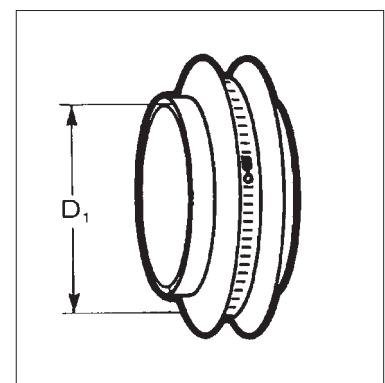
An example of how to order:

Lead Through Seal for a pre-insulated pipe DN 200/355, Article No. 6510-355-000-000.

EMBEDMENT RING, 6520

The embedment ring, water barrier F802 is used for water and/or radon sealing when embedding a circular pipe in a concrete wall or floor. It is suitable for all types of piping, for example, plastic, cast iron, steel, concrete etc., and should be mounted directly onto a pipe so that they are cased together. In certain cases the ring can be used on corrugated plastic piping.

The unique profile of the ring, combined with the accompanying hose-clip, provides efficient sealing between the pipe and the concrete. The excellent sealing qualities are partly due to the ability of the hose-clip to hold the rubber ring tightly against the pipe during the casting process. The "ears" of the ring are also fastened completely in the concrete when the concrete hardens. The F 802 ring can advantageously be used when a pipe is not under stress from any axial movement.



Dimension	D.	W
63 - 180	40	22
200 - 1000	50	27

The Embedment Ring is intended to provide a seal between the district heating pipe and the concrete wall where axial movement is minimal.

Article No.

6520 + OD HDPE jacket pipe

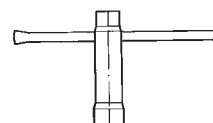
An example of how to order:

Embedment ring for dimension DN 200/355, Article No. 6520-355-000-000.

Shut-off valves

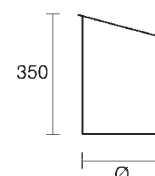
T-WRENCH

Article No. 4130-wrench size-000-000
Available wrench size 19, 27 and 50 mm.



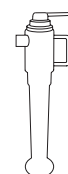
PROTECTION CAP FOR VALVES AND AIR RELEASE UNITS

Article No. 6136-DN valve-000-000



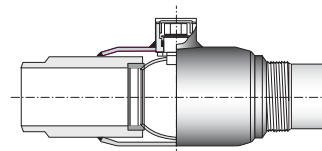
PORTABLE REDUCTION GEAR

Valve	Art. no
DN 100–150	7801-027-000-000
DN 200–400	7801-050-000-000



Hot Tapping Valve

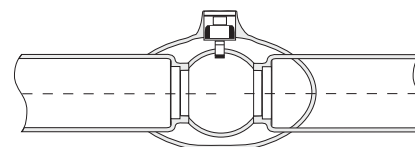
DN 32–150
Article no. 9260-DN-000-000



Single Use Valve

DN 20-DN200	DN 20-25	230
	DN 32-40	260
	DN 50-80	300
	DN 100-125	325
	DN 150	350
	DN 200	390

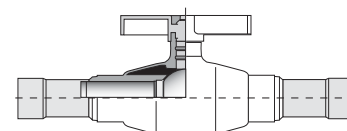
Article No. 9247-DN-000-333
Please observe: The single use valve need an extended sleeve.
See 6:303!



Valve for single house connection

Welding end / copper DN 15-50, Ø 15-54

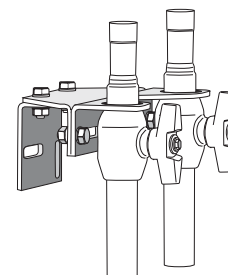
Article no. 9247-DN-000-332.



Twin valve for single house connection

Welding end / copper	DN 20 / Ø 18, 22, 28 – DN 25 / Ø 22, 28
Welding end / welding	DN 20, 25
Welding end / internal thread	DN 20 / 3/4"

Article no. 7750-DN-000-000.

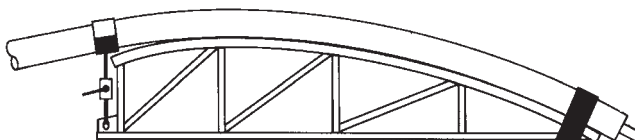


Miscellaneous

BENDING TOOL TYPE A

Curve radius 2 m
Article No. 7860-001-000-000

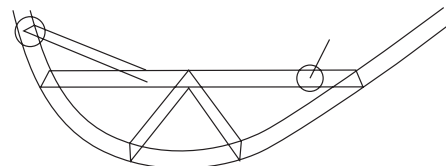
Before use please see "Use and safety instructions"!



BENDING TOOL TYPE B

Curve radius 0.8 m
Article No. 7860-002-000-000

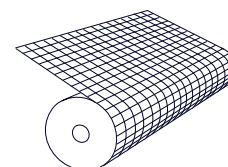
Before use please see "Use and safety instructions"!



PROTECTION NET OF HDPE

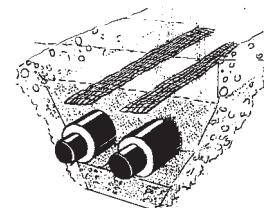
Width 1000 mm, thickness 6mm
Article No. 6190-006-000-000

Clips to protection net
Art. No. 6190-001-000-000



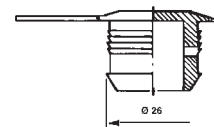
INDICATION BAND

Width 500 mm, length 100m
Article No. 6990-000-000-000



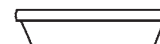
PLUG FOR JOINTS, NON WELDING TYPE

Dimension 26 mm
Article No. 6550-030-000-000



PLUG FOR JOINTS, WELDING TYPE

Dimension 22 mm
Article No. 6550-050-000-000



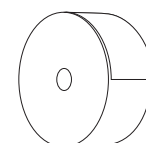
FOPS

Dimension 90 mm
Article No. 6550-040-000-000



MASTIC

With=70 mm. Delivered in rolls with length of 30 m.
Article no. 6550-004-000-000.



Miscellaneous

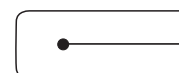
SPACER FOR ALARM WIRE

Length 400mm
Article No. 6890-010-000-000



HYGROSCOPIC FELT

400x100 mm
Article no. 6890-011-000-000



SPLICING SLEEVE FOR ALARM WIRE

Article No. 6890-100-000



WEDGE

		Art. No.
Thin	3 mm	6550-001-000-000
Thick	5 mm	6550-002-000-000



SPLICING PLIERS

Article No. 6890-100-100-000



POLYOL (DELIVERED IN A DRUM)

Article No. 6706--000-000-000
A drum contains ~220 kg. For need of smaller quantities please contact Powerpipe!



ISOCYANATE (DELIVERED IN A DRUM)

Article No. 6720-000-000-000
A drum contains ~250 kg. For need of smaller quantities please contact Powerpipe!



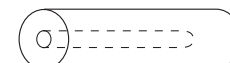
MIXING CUP, 2 litres

Article No. 9901-800-000-000



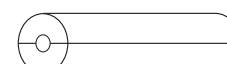
HALF SHELL FOR TERMINATION CASING

Article No. 9604-DNsteel-Thickness shell-000



HALF SHELL FOR SLEEVES

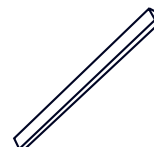
Article No. 9604-DNsteel-Thickness shell-000



Miscellaneous

MIXING STICK

Article No. 9901-810-000-000



WORKING GLOVES

Article No. 9901-830-000-000



PROTECTION GOGGLES

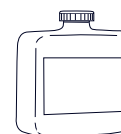
Article No. 9901-840-000-000



DECONTAMINATION POWDER

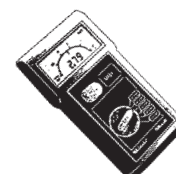
5 litres

Article No. 9901-890-000-000



MEGGER ISOLATION VOLTAGE TESTER MIT 320

Article No. 6870-000-000-000



PULSE ECHO MEASUREMENT UNIT TYPE TDR 2000-2

Article No. 6871-000-000-000



FOAM PADS

Article No. 7800-OD pre-insulated pipe casing-000-000

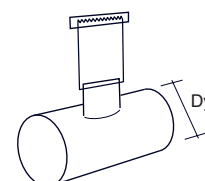


PEH CASING FOR ALARM SYSTEM MEASURING POINT

Article No. 6270-Dy-000-000

The measuring point consists of:

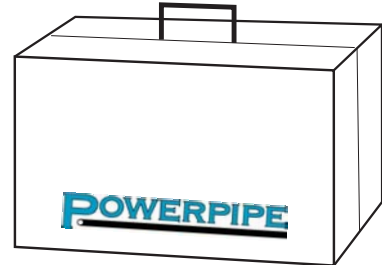
- Standard shrinking sleeve for main pipe with a branch.
- Ø110 shrinking sleeve with screw cap



Miscellaneous**BOX FOR EQUIPMENT AT JOINTING WORK**

- Voltage tester
- Welding tools for plugs
- Splicing plier
- Gasnozzle
- Pressuretest equipment.
- Rasping file
- Knife
- Gloves
- Splicing sleeves
- Drilling machine
- Drills
- Emergency cloth
- Cleaning compound
- Fops press
- Cutting pliers
- Scissors
- Fops

Art. nr. 9908-000-000-000.



ACCESSORIES

8:201

Portion foam for single pipe systems

Ready to use portion foam for field installation of pre-insulated pipe joints.
The portion foam is delivered in bottles.



PORTION FOAMS, 6480 Dimensioning table for single pipe systems

Dimension DN	Series 1 HDPE OD (mm)	Bottle size	Series 2 HDPE OD (mm)	Bottle size	Series 3 HDPE OD (mm)	Bottle size
25	90	2	110	3	125	4
32	110	3	125	4	140	5
40	110	3	125	4	140	5
50	125	4	140	5	160	6
65	140	4	160	6	180	6.1
80	160	5.1	180	6.1	200	8
100	200	6	225	8.1	250	10
125	225	7	250	9	280	11.1
150	250	8	280	10	315	11.1
200	315	10	355	11.1	400	12
250	400	11.1	450	13	500	13.1
300	450	11.1	500	13.1	630	13.1+8
350	500	13	560	13.1+10	630	13.1+11.1
400	560	13.1	630	13.1+11	710	13.1+13.1
450	560	12	630	13.1+10	710	12+13
500	630	13.1	710	13.1+11.1	800	12.1+13.1

The above volumes are calculated based on an open total joint length of 500 mm, standard joint dimensioning and foam density 65 kg/ m³ and a temperature of +15°C—+40°C on sleeve and steel pipe. This foaming liquids shall have a temperature of ~ 20°C

Article No

6480-bottle size-000-000

An example of how to order:

Bottle size 5.1 has Article No. 6480-051-000-000

For calculating relations Polyol/Isocyanat please see 10.3.38

*Please observe: Increased amount of foam is needed at cold pipes.
A solution could be to use next bigger size of bottle.*

ACCESSORIES

8:202

Portion foam for double pipe systems

Ready to use portion foam for field installation of pre-insulated pipe joints.
The portion foam is delivered in bottles.



PORTION FOAM, 6480 Dimensioning table for double pipe systems

Dimension DN	STANDARD HDPE Dy[mm]	Bottle size	DOUBLE+ HDPE Dy[mm]	Bottle size
2 x 25	140	5	160	6
2 x 32	160	6	180	6.1
2 x 40	160	6	180	6.1
2 x 50	200	8	225	8.1
2 x 65	225	8.1	250	10
2 x 80	250	10	280	10.1
2 x 100	315	11.1		
2 x 125	400	12		
2 x 150	450	13		
2 x 200	560	12+12		

The above volumes are calculated based on an open total joint length of 500 mm, standard joint dimensioning and foam density 65 kg/ m³ and a temperature of +15°C—+40°C on sleeve and steel pipe. This foaming liquids shall have a temperature of ~ 20°C

Article No

6480-bottle size-000-000

An example of how to order:

Bottle size 8.1 has Article No. 6480-081-000-000

For calculating relations Polyol/Isocyanat please see 10.3.38

*Please observe: Increased amount of foam is needed at cold pipes.
A solution could be to use next bigger size of bottle.*

ACCESSORIES

8:203

Portion foam for single pipe systems

Calculations of foam liquids can be made using volumes in tables below.



PORTION FOAM, 6480 Need for branch

Dimension DN	SERIES 1 kg	SERIES 2 kg	SERIES 3 kg	AMOUNT kg	BOTTLE SIZE
DN 25	0,33	0,52	0,52	0,2-0,25	1
DN 32	0,56	0,56	0,76	0,25-0,35	1
DN 40	0,52	0,52	0,72	0,35-0,45	2
DN 50	0,48	0,68	1,10	0,45-0,55	3
DN 65	0,71	1,10	1,10	0,55-0,70	4
DN 80	1,00	1,00	1,10	0,70-0,75	5
Need for main pipe					
Dimension DN	SERIES 1 kg	SERIES 2 kg	SERIES 3 kg	AMOUNT kg	BOTTLE SIZE
DN 40	0,43	0,55	0,70	0,75-0,85	5.1
DN 50	0,52	0,67	0,89	0,85-1,00	6
DN 65	0,60	0,81	1,06	1,00-1,15	6.1
DN 80	0,76	0,99	1,27	1,15-1,30	7
DN 100	1,05	1,50	1,89	1,30-1,60	8
DN 125	1,23	1,70	2,26	1,60-1,75	8.1
DN 150	1,36	2,00	2,72	1,75-1,90	9
DN 200	2,00	3,03	3,98	1,90-2,30	10
DN 250	3,25	4,91	6,11	2,30-2,60	10.1
DN 300	3,14	5,63	7,36	2,60-3,00	11
DN 350	4,70	7,17	9,45	3,00-3,50	11.1
DN 400	5,75	8,93	11,75	3,50-4,80	12
DN 500	5,60	9,67	12,59	4,80-6,00	13
				6,00-7,00	13.1

Article No.

6480-bottle size-000-000

Please observe: The table volumes are calculated for:

- 500 mm free steelpipe on main pipe. At less opening the amount shall be reduced
- Dimensions of shrinking sleeves used.

Calculate and add the need for mainpipe and branch. In table above 10% for liquids remaining in foaming bottles is included.

**For calculating relations
Polyol/Isocyanat please see
10.3.38**

ACCESSORIES

8:204

Portion foam for single pipe systems

Calculations of foam liquids can be made using volumes in tables below.



PORTION FOAM, 6480

Need for branch (Double pipe)

Dimension DN	STANDARD kg	DOUBLE+ kg	AMOUNT kg	BOTTLE SIZE
DN 25	0,55	0,70	0,2-0,25	1
DN 32	0,70	0,86	0,25-0,35	1
DN 40	0,67	0,83	0,35-0,45	2
DN 50	1,11	1,25	0,45-0,55	3
DN 65	1,60	2,05	0,55-0,70	4
			0,70-0,75	5
			0,75-0,85	5.1
			0,85-1,00	6
			1,00-1,15	6.1
			1,15-1,30	7
			1,30-1,60	8
			1,60-1,75	8.1
			1,75-1,90	9
			1,90-2,30	10
			2,30-2,60	10.1
			2,60-3,00	11
			3,00-3,50	11.1
			3,50-4,80	12
			4,80-6,00	13
			6,00-7,00	13.1

Need for main pipe (double pipe)

Dimension DN	STANDARD kg	DOUBLE+ kg
DN 32	0,95	1,19
DN 40	0,90	1,14
DN 50	1,35	1,77
DN 65	1,62	2,07
DN 80	1,92	2,53
DN 100	2,93	
DN 125	4,53	
DN 150	5,40	

Article No.

6480-bottle size-000-000

Please observe: The table volumes are calculated for:

- 500 mm free steel pipe on main pipe. At less opening the amount shall be reduced
- Dimensions of shrinking sleeves are used.

Calculate and add the need for mainpipe and branch. In table above 10% for liquids remainins in foaming bottles is included.

**For calculating relations
Polyol/Isocyanat please see
10.3.38**