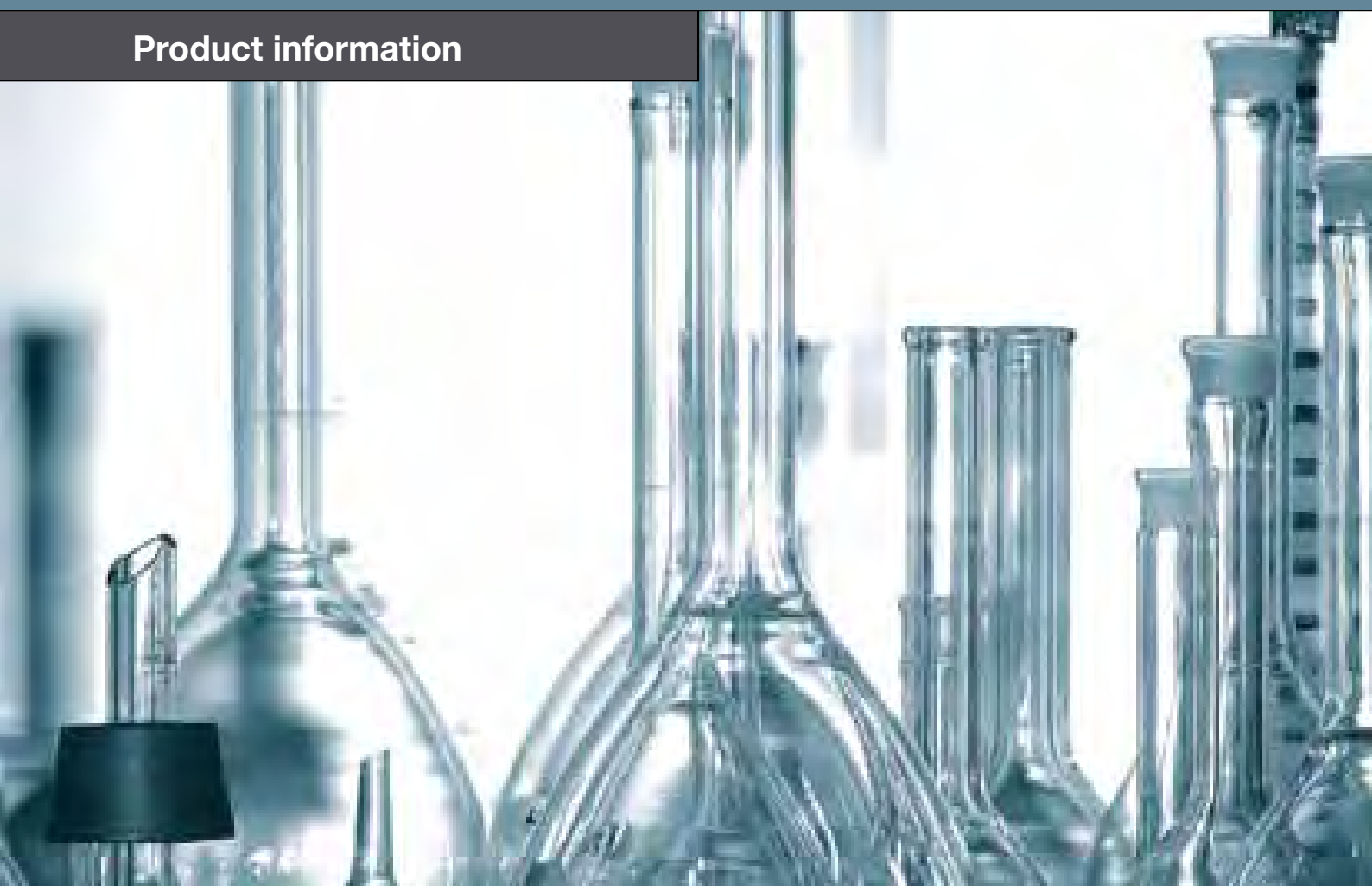


# KML

Socketless cast iron system  
for aggressive waste water from  
kitchens and laboratories

Product information



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waste water from kitchens  
and laboratories

## KML product information

### Special coatings for optimal quality

Pipes that carry hot, greasy and aggressive waste water in hospitals, laundries and laboratories need a particularly tough internal coating. RSP® has developed its KML system in cooperation with specialist paint manufacturers in order to meet these extreme requirements. The outstanding quality of the

cast iron used in RSP® pipes and fittings produces a smooth surface that the coating materials adhere to perfectly.

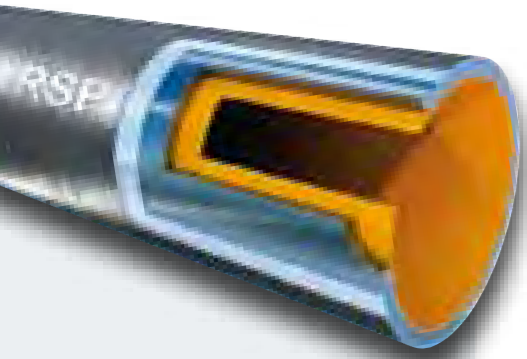
### Keeping to the rules

The applicable standard for the production of the KML system, like for all RSP® cast iron waste water systems, is DIN EN 877. This standard sets out the requirements (relating to material quality, dimensions, mechanical properties, and much more) that the pipes and fittings and their couplings must meet.

### Wide product range

The KML system consists of a diverse range of pipes and fittings that allow a solution to be found whatever the situation. Because our systems are standardised, KML products are also compatible with all of our other systems including SML and TML. Please see page 15 for information on ordering catalogues.

## Coatings and installation



### Coatings

KML cast iron fittings are coated externally and internally with a specially-developed, certified grey epoxy powder coating.

KML pipes are coated externally with high-quality epoxy resin, underneath which is a zinc layer for additional protection against corrosion from the outside. Internally the pipes are coated with an epoxy film of increased thickness that has been specially developed for demanding applications.

This coating provides a level of resistance to virtually all waste waters encountered in this area of application that goes far beyond what is required by DIN EN 877. KML pipes and fittings are used in large-scale kitchens, laboratories, hospitals, and other premises that produce very aggressive waste water.

### Coating thicknesses

#### Fittings:

External and internal approx. 250 µm (epoxy powder)

#### Pipes:

Internal 220-300 µm (epoxy resin)  
External 130 g/m<sup>2</sup> (zinc) and approx. 60 µm (epoxy finishing coat)

### Installation

KML cast iron pipes are supplied in a length of 3000 mm. They can be easily cut to size on the construction site using an electric pipe saw or – under certain circumstances – an angle grinder.

Please ensure the cut is precise and square to guarantee reliable, non-leaky joints between pipes and fittings.

To prevent infiltration and corrosion, the touch-up paint supplied should be applied to all cut edges.

RSP® products are compatible with all products that comply with the standard EN 877. The installation method used depends on the circumstances at the place of installation. You can find relevant tips for installation in our “Technology and installation” catalogue; alternatively, please feel free to contact us directly.

Generally the applicable standards are mandatory for the installation of RSP® pipes and fittings.

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All parts from our SML range are available as KML parts on request.

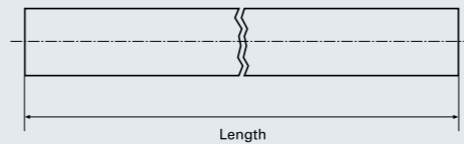
**Design dimensions (DIN EN 877 und DIN 19522)**

| Nominal size | Outside diameter |            | Wall thickness |            |         |            | Insertion length (sealing zone) | Pipe weight (empty) | Surface area |
|--------------|------------------|------------|----------------|------------|---------|------------|---------------------------------|---------------------|--------------|
|              |                  |            | Pipe           |            | Fitting |            |                                 |                     |              |
| DN*          | DE*              | Tolerance* | E*             | Tolerance* | e*      | Tolerance* | t*                              | Approx. kg/m        | Per m        |
| 50           | 58               | +2/-1      | 3.5            | -0.5       | 4.2     | -0.7       | 30                              | 4.3                 | 0.18         |
| 70           | 78               | +2/-1      | 3.5            | -0.5       | 4.2     | -0.7       | 35                              | 5.7                 | 0.25         |
| 80           | 83               | +2/-1      | 3.5            | -0.5       | 4.2     | -0.7       | 35                              | 6.2                 | 0.28         |
| 100          | 110              | +2/-1      | 3.5            | -0.5       | 4.2     | -0.7       | 40                              | 8.3                 | 0.35         |
| 125          | 135              | +2/-2      | 4.0            | -0.5       | 4.7     | -1.0       | 45                              | 11.7                | 0.42         |
| 150          | 160              | +2/-2      | 4.0            | -0.5       | 5.3     | -1.3       | 50                              | 14.0                | 0.50         |
| 200          | 210              | +2/-2      | 5.0            | -1.0       | 6.0     | -1.5       | 60                              | 23.0                | 0.65         |

\*All dimensions in mm.

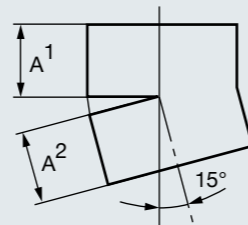
**Pipe**  
(Length = 3000 mm)

| DN  | kg   | Item no.   |
|-----|------|------------|
| 50  | 13.0 | KROHRDN050 |
| 70  | 17.0 | KROHRDN070 |
| 80  | 18.0 | KROHRDN080 |
| 100 | 25.0 | KROHRDN100 |
| 125 | 35.0 | KROHRDN125 |
| 150 | 42.0 | KROHRDN150 |
| 200 | 69.0 | KROHRDN200 |



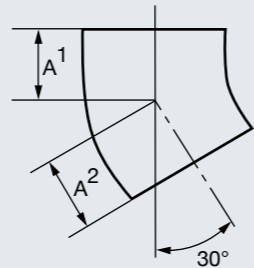
**Bend 15°**

| DN  | A  | kg  | Item no. |
|-----|----|-----|----------|
| 50  | 40 | 0.4 | K5015    |
| 70  | 45 | 0.6 | K7015    |
| 80  | 45 | 0.7 | K8015    |
| 100 | 50 | 1.0 | K10015   |
| 125 | 60 | 1.7 | K12515   |
| 150 | 65 | 2.5 | K15015   |



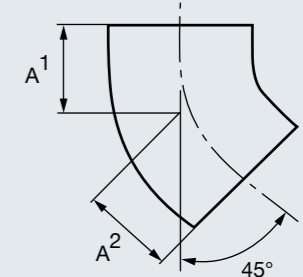
**Bend 30°**

| DN  | A  | kg  | Item no. |
|-----|----|-----|----------|
| 50  | 45 | 0.5 | K5030    |
| 70  | 50 | 0.7 | K7030    |
| 80  | 50 | 0.8 | K8030    |
| 100 | 60 | 1.3 | K10030   |
| 125 | 70 | 2.0 | K12530   |
| 150 | 80 | 3.0 | K15030   |



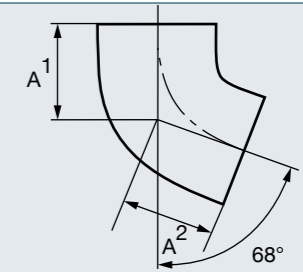
**Bend 45°**

| DN  | A   | kg  | Item no. |
|-----|-----|-----|----------|
| 50  | 50  | 0.5 | K5045    |
| 70  | 60  | 0.9 | K7045    |
| 80  | 60  | 1.0 | K8045    |
| 100 | 70  | 1.6 | K10045   |
| 125 | 80  | 2.3 | K12545   |
| 150 | 90  | 3.5 | K15045   |
| 200 | 110 | 6.2 | K20045   |



**Bend 68°**

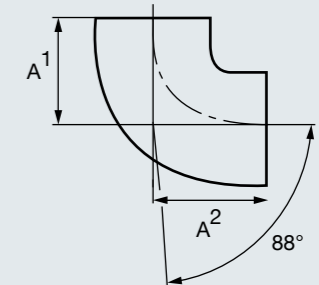
| DN   | A   | kg  | Item no. |
|------|-----|-----|----------|
| 50   | 65  | 0.7 | K5070    |
| 70   | 75  | 1.1 | K7070    |
| 80   | 80  | 1.1 | K8070    |
| 100  | 90  | 1.9 | K10070   |
| 125* | 105 | 2.9 | K12570   |
| 150  | 120 | 4.3 | K15070   |



\* discontinued model

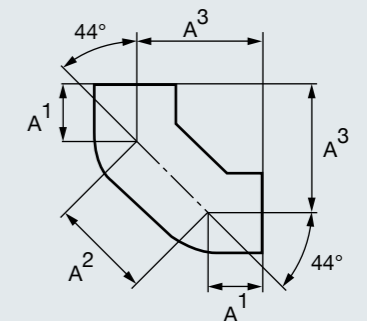
**Bend 88°**

| DN  | A   | kg  | Item no. |
|-----|-----|-----|----------|
| 50  | 75  | 0.7 | K5088    |
| 70  | 90  | 1.2 | K7088    |
| 80  | 95  | 1.4 | K8088    |
| 100 | 110 | 2.1 | K10088   |
| 125 | 125 | 3.2 | K12588   |
| 150 | 145 | 4.9 | K15088   |
| 200 | 180 | 8.8 | K20088   |



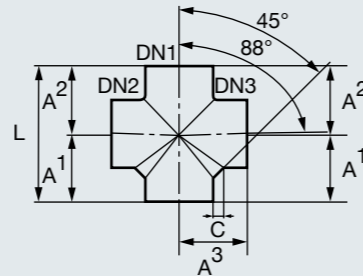
**Double bend 88° (2 x 44°)**

| DN  | A <sup>1</sup> | A <sup>2</sup> | A <sup>3</sup> | kg  | Item no. |
|-----|----------------|----------------|----------------|-----|----------|
| 100 | 70             | 140            | 170            | 3.2 | KDB10088 |
| 150 | 90             | 180            | 219            | 7.0 | KDB15088 |
|     |                |                |                |     |          |
|     |                |                |                |     |          |
|     |                |                |                |     |          |
|     |                |                |                |     |          |



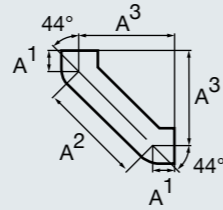
### Double branch 88°

| DN1/DN2/DN3 | A <sup>1</sup> | A <sup>2</sup> | A <sup>3</sup> | L   | C    | kg  | Item no.    |
|-------------|----------------|----------------|----------------|-----|------|-----|-------------|
| 100/100/100 | 120            | 110            | 120            | 230 | 22.0 | 3.2 | KDA10010088 |



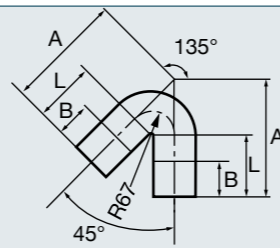
### Bend 88° with 250 mm oblong

| DN  | A <sup>1</sup> | A <sup>2</sup> | A <sup>3</sup> | kg  | Item no. |
|-----|----------------|----------------|----------------|-----|----------|
| 100 | 70             | 312            | 291            | 4.8 | KBB10088 |



### Recirculated air bend 135°

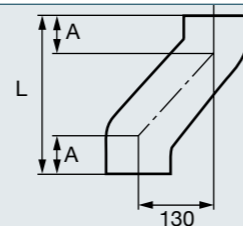
| DN  | A   | B*  | L   | kg  | Item no.  |
|-----|-----|-----|-----|-----|-----------|
| 100 | 312 | 100 | 150 | 5.0 | KUB100135 |



\*Maximum reduction.

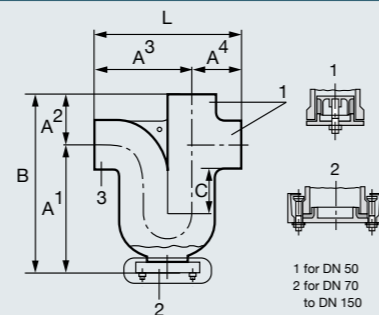
### Offset bend 130 mm

| DN  | A  | L   | kg  | Item no.    |
|-----|----|-----|-----|-------------|
| 100 | 70 | 270 | 3.4 | KSPRUNGR100 |



### Trap – horizontal/vertical

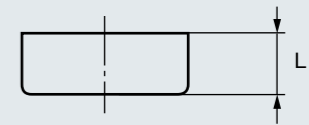
| DN  | L   | B   | A <sup>1</sup> | A <sup>2</sup> | A <sup>3</sup> | A <sup>4</sup> | C   | kg   | Item no. |
|-----|-----|-----|----------------|----------------|----------------|----------------|-----|------|----------|
| 50  | 190 | 250 | 182            | 68             | 122            | 68             | 60  | 2.8  | KGV50    |
| 70  | 265 | 293 | 200            | 93             | 172            | 93             | 60  | 5.0  | KGV70    |
| 80  | 265 | 293 | 200            | 93             | 172            | 93             | 60  | 5.8  | KGV80    |
| 100 | 325 | 392 | 282            | 110            | 215            | 110            | 100 | 8.5  | KGV100   |
| 125 | 390 | 446 | 316            | 130            | 260            | 130            | 100 | 13.0 | KGV125   |
| 150 | 470 | 493 | 348            | 145            | 325            | 145            | 100 | 19.5 | KGV150   |
| 200 | 600 | 600 | 420            | 180            | 400            | 200            | 100 | 33.7 | KGV200   |



1 Inflow horizontal or vertical (seal unused intake)  
2 Access door at bottom for DN 50-150  
3 Outlet

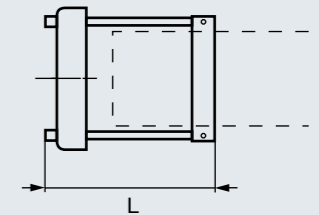
### Plug

| DN  | L  | kg  | Item no. |
|-----|----|-----|----------|
| 50  | 30 | 0.2 | KENDE50  |
| 70  | 35 | 0.4 | KENDE70  |
| 80  | 35 | 0.4 | KENDE80  |
| 100 | 40 | 0.5 | KENDE100 |
| 125 | 45 | 1.1 | KENDE125 |
| 150 | 50 | 1.7 | KENDE150 |
| 200 | 60 | 3.1 | KENDE200 |



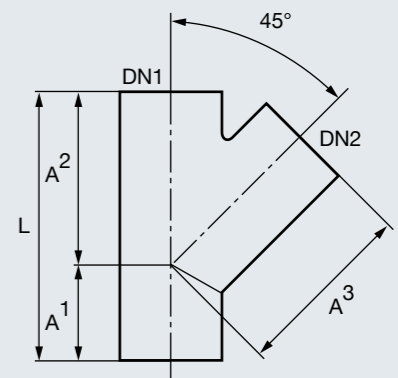
### Plug with gripper clamp

| DN  | L  | kg  | Item no.   |
|-----|----|-----|------------|
| 100 | 90 | 2.5 | KENDE100KL |
| 125 | 90 | 3.5 | KENDE125KL |
| 150 | 95 | 4.5 | KENDE150KL |



### Branch 45°

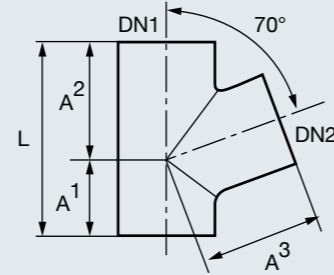
| DN1/DN2 | A <sup>1</sup> | A <sup>2</sup> | A <sup>3</sup> | L   | kg   | Item no.  |
|---------|----------------|----------------|----------------|-----|------|-----------|
| 50/50   | 50             | 135            | 135            | 185 | 1.4  | K505045   |
| 70/50   | 40             | 150            | 150            | 190 | 1.6  | K705045   |
| 70/70   | 55             | 160            | 160            | 215 | 2.3  | K707045   |
| 80/50   | 55             | 135            | 135            | 190 | 1.8  | K805045   |
| 80/80   | 65             | 165            | 165            | 230 | 2.4  | K808045   |
| 100/50  | 35             | 165            | 165            | 200 | 2.5  | K1005045  |
| 100/70  | 50             | 185            | 185            | 235 | 3.3  | K1007045  |
| 100/80  | 55             | 175            | 175            | 230 | 3.5  | K1008045  |
| 100/100 | 70             | 205            | 205            | 275 | 4.2  | K10010045 |
| 125/50  | 20             | 185            | 185            | 205 | 3.4  | K1255045  |
| 125/70  | 40             | 200            | 200            | 240 | 4.3  | K1257045  |
| 125/80  | 40             | 200            | 200            | 240 | 4.6  | K1258045  |
| 125/100 | 60             | 220            | 220            | 280 | 5.2  | K12510045 |
| 125/125 | 80             | 240            | 240            | 320 | 6.4  | K12512545 |
| 150/70  | 30             | 215            | 215            | 245 | 5.6  | K1507045  |
| 150/80  | 40             | 215            | 215            | 255 | 5.9  | K1508045  |
| 150/100 | 55             | 240            | 240            | 295 | 6.8  | K15010045 |
| 150/125 | 70             | 255            | 255            | 325 | 8.0  | K15012545 |
| 150/150 | 90             | 265            | 265            | 355 | 9.2  | K15015045 |
| 200/80  | 15             | 240            | 240            | 255 | 8.5  | K2008045  |
| 200/100 | 40             | 265            | 265            | 305 | 10.0 | K20010045 |
| 200/125 | 55             | 280            | 280            | 335 | 11.9 | K20012545 |
| 200/150 | 75             | 300            | 300            | 375 | 13.3 | K20015045 |
| 200/200 | 115            | 340            | 340            | 455 | 17.2 | K20020045 |



### Branch 70°

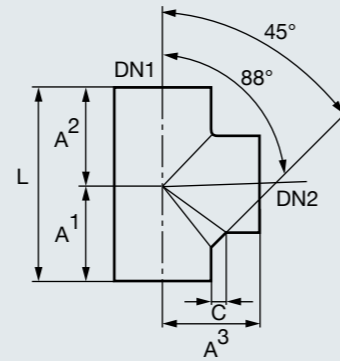
(discontinued)

| DN1/DN2 | A <sup>1</sup> | A <sup>2</sup> | A <sup>3</sup> | L   | kg  | Item no.  |
|---------|----------------|----------------|----------------|-----|-----|-----------|
| 100/50  | 55             | 100            | 110            | 155 | 1.9 | K1005070  |
| 100/70  | 70             | 110            | 120            | 180 | 2.4 | K1007070  |
| 100/100 | 85             | 130            | 130            | 215 | 2.9 | K10010070 |
| 125/100 | 85             | 140            | 145            | 225 | 4.0 | K12510070 |



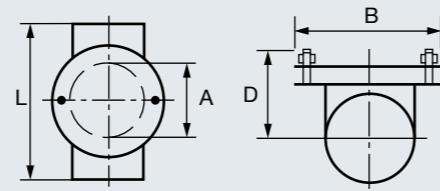
### Branch 88°

| DN1/DN2 | A <sup>1</sup> | A <sup>2</sup> | A <sup>3</sup> | L   | C    | kg  | Item no.  |
|---------|----------------|----------------|----------------|-----|------|-----|-----------|
| 50/50   | 79             | 66             | 80             | 145 | 20.0 | 0.9 | K505088   |
| 70/50   | 83             | 72             | 90             | 155 | 21.0 | 1.4 | K705088   |
| 70/70   | 97             | 83             | 95             | 180 | 21.0 | 1.7 | K707088   |
| 80/50   | 95             | 85             | 90             | 180 | 21.0 | 1.5 | K805088   |
| 80/80   | 95             | 85             | 95             | 180 | 21.0 | 2.0 | K808088   |
| 100/50  | 94             | 76             | 105            | 170 | 22.0 | 2.1 | K1005088  |
| 100/70  | 102            | 88             | 110            | 190 | 22.0 | 2.4 | K1007088  |
| 100/80  | 105            | 85             | 110            | 190 | 22.0 | 2.6 | K1008088  |
| 100/100 | 115            | 105            | 120            | 220 | 22.0 | 2.9 | K10010088 |
| 125/125 | 137            | 123            | 135            | 260 | 25.0 | 4.6 | K12512588 |
| 150/150 | 158            | 142            | 155            | 300 | 27.5 | 6.9 | K15015088 |



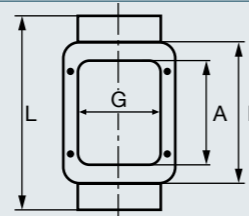
### Short pipe with round access door

| DN  | D  | B   | A   | L   | kg  | Item no.   |
|-----|----|-----|-----|-----|-----|------------|
| 50  | 59 | 105 | 53  | 190 | 2.3 | KREINIG50  |
| 70  | 69 | 125 | 73  | 210 | 2.9 | KREINIG70  |
| 80  | 74 | 135 | 78  | 220 | 3.1 | KREINIG80  |
| 100 | 84 | 159 | 104 | 260 | 5.0 | KREINIG100 |



### Short pipe with rectangular access door

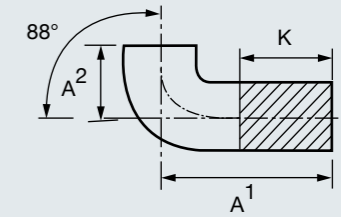
| DN  | D*  | B*  | G   | A   | I   | L   | kg   | Item no.      |
|-----|-----|-----|-----|-----|-----|-----|------|---------------|
| 100 | 83  | 157 | 100 | 200 | 230 | 340 | 7.6  | KREINIG100ECK |
| 125 | 101 | 190 | 125 | 225 | 255 | 370 | 10.3 | KREINIG125ECK |
| 150 | 112 | 215 | 150 | 250 | 280 | 395 | 14.5 | KREINIG150ECK |
| 200 | 137 | 265 | 200 | 300 | 330 | 465 | 22.0 | KREINIG200ECK |



\*See diagram for short pipe with round access door.

### Bend 88° with 250 mm spigot

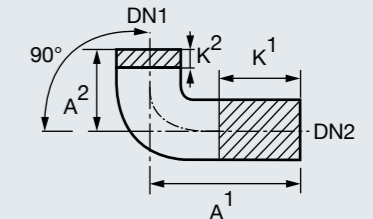
| DN  | A <sup>1</sup> | A <sup>2</sup> | K*  | kg  | Item no.   |
|-----|----------------|----------------|-----|-----|------------|
| 100 | 250            | 110            | 140 | 4.6 | K10088LANG |



\*Maximum reduction.

### Connection bend 90°

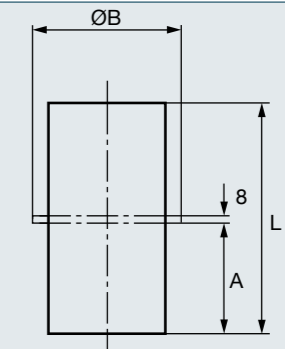
| DN1/DN2 | A <sup>1</sup> | A <sup>2</sup> | K <sup>1</sup> | K <sup>2</sup> | kg  | Item no.       |
|---------|----------------|----------------|----------------|----------------|-----|----------------|
| 50/50   | 200            | 110            | 120            | 25             | 1.5 | KOBJEKTAN50/50 |



\*Maximum reduction.

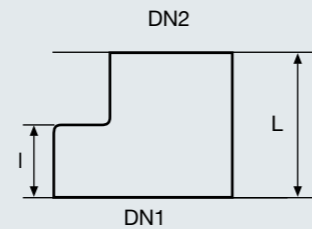
### Stack support pipe (no rubber)

| DN  | B   | A  | L   | kg  | Item no.    |
|-----|-----|----|-----|-----|-------------|
| 100 | 145 | 96 | 200 | 2.3 | KFALLROH100 |
| 125 | 170 | 96 | 200 | 3.0 | KFALLROH125 |
| 150 | 195 | 96 | 200 | 4.0 | KFALLROH150 |
| 200 | 245 | 96 | 200 | 6.0 | KFALLROH200 |



### Reducing pipe eccentric

| DN1/DN2 | I  | L   | kg  | Item no.     |
|---------|----|-----|-----|--------------|
| 70/50   | 40 | 75  | 0.5 | KÜBERG7050   |
| 80/50   | 45 | 80  | 0.7 | KÜBERG8050   |
| 100/50  | 45 | 80  | 0.9 | KÜBERG10050  |
| 100/70  | 45 | 85  | 0.9 | KÜBERG10070  |
| 100/80  | 45 | 90  | 1.1 | KÜBERG10080  |
| 125/50  | 50 | 85  | 1.4 | KÜBERG12550  |
| 125/70  | 50 | 90  | 1.5 | KÜBERG12570  |
| 125/80  | 54 | 95  | 1.5 | KÜBERG12580  |
| 125/100 | 50 | 95  | 1.5 | KÜBERG125100 |
| 150/50  | 55 | 95  | 2.0 | KÜBERG15050  |
| 150/70  | 55 | 100 | 2.1 | KÜBERG15070  |
| 150/80  | 56 | 100 | 2.3 | KÜBERG15080  |
| 150/100 | 60 | 105 | 2.2 | KÜBERG150100 |
| 150/125 | 60 | 110 | 2.2 | KÜBERG150125 |
| 200/100 | 70 | 115 | 4.1 | KÜBERG200100 |
| 200/125 | 70 | 120 | 4.1 | KÜBERG200125 |
| 200/150 | 65 | 125 | 4.3 | KÜBERG200150 |



All parts from our SML range are available as KML parts on request.

### Chemical resistance list

| Acids   | Temperature °C |   |   |             |   |   |             |   |   |             |   |   | pH   | Resistant for |        |
|---|----------------|---|---|-------------|---|---|-------------|---|---|-------------|---|---|------|---------------|--------|
|   | Approx. 20°    |   |   | Approx. 40° |   |   | Approx. 50° |   |   | Approx. 80° |   |   |      |               |        |
|   | 1              | 2 | 3 | 1           | 2 | 3 | 1           | 2 | 3 | 1           | 2 | 3 |      |               |        |
| Sulphuric acid 0.1 N                              | △              | △ | □ | △           | △ | ○ | △           |   |   |             |   |   |      | 1.0           | 30 d   |
| Sulphuric acid 30%                                | △              | △ | □ | □           | △ | ○ | □           | □ | ○ |             |   |   |      |               |        |
| Sulphuric acid 50%                                | □              | △ | ○ |             |   |   |             |   |   |             |   |   |      |               |        |
| Nitric acid 30%                                   | □              | △ | ○ |             |   |   |             |   |   |             |   |   |      |               |        |
| Acetic acid 10%                                   | △              | △ | □ |             |   |   |             |   |   |             |   |   |      | 2.0           | 48 h   |
| Phosphoric acid 25%                               | △              | △ | □ | △           | △ | □ |             |   |   |             |   |   |      | 1.0           | 72 h   |
| Lactic acid 10%                                   | △              | △ | ○ |             |   |   |             |   |   |             |   |   |      | 2.0           | 48 d   |
| Sulphur dioxide                                   | △              | △ | △ |             |   |   |             |   |   |             |   |   |      |               |        |
| Citric acid 5%                                    | △              | △ | ○ | △           | △ | ○ | △           | △ | ○ | △           | △ | ○ | 1.5  | 30 d          |        |
| Hydrochloric acid 30%                             | △              | △ | ○ | □           | △ | ○ |             |   |   |             |   |   |      |               |        |
| <b>Alkalis</b>                                    |                |   |   |             |   |   |             |   |   |             |   |   |      |               |        |
| Soda 0.1 N  | △              | △ | △ | △           | △ | △ | △           | △ | □ | □           | △ |   | 11.4 | 30 d          |        |
| Potassium carbonate 50%                           | △              | △ | △ | △           | △ | △ | △           | △ | □ | △           |   |   |      |               |        |
| Ammonia 10%                                       | ○              | △ | □ |             |   |   |             |   |   |             |   |   |      |               |        |
| Natron  | △              | △ | ○ | ○           | ○ | ○ |             |   |   |             |   |   |      |               |        |
| <b>Salts</b>                                      |                |   |   |             |   |   |             |   |   |             |   |   |      |               |        |
| Salt water  | △              | △ | △ | △           | △ | △ | △           | △ | △ | △           | △ | △ | 5.6  | 10 d          |        |
| Potassium chloride (e.g. in fertilisers)          | △              | △ | △ |             |   |   |             |   |   |             |   |   |      |               |        |
| Trisodium phosphate solution (e.g. in detergents) | △              | △ | △ | △           | △ | △ | △           | △ | △ |             |   |   |      |               |        |
| Waste water as per EN 877                         | △              | △ |   | △           | △ |   | △           | △ |   | △           | △ |   | 7.0  | 30 d          |        |
| Hydrogen peroxide 10%                             | △              |   |   |             |   |   |             |   |   |             |   |   | 3.5  | 48 h          |        |
| Salt spray  | △              |   |   | △           |   |   |             |   |   |             |   |   |      |               | 1500 h |

| Key |                  |   |                    |
|-----|------------------|---|--------------------|
| 1   | Internal coating | △ | Resistant          |
| 2   | EPDM gasket      | □ | Partial resistance |
| 3   | NBR gasket       | ○ | Not resistant      |
|     |                  |   | Not tested         |
| h   | Hours            |   |                    |
| d   | Days             |   |                    |

Testing was performed under laboratory conditions. Real-life installation conditions may be different and may therefore give different results.

| Sugar  | Temperature °C |   |   |             |   |   |             |   |   |             |   |   | pH | Resistant for |  |     |      |
|--|----------------|---|---|-------------|---|---|-------------|---|---|-------------|---|---|----|---------------|--|-----|------|
|  | Approx. 20°    |   |   | Approx. 40° |   |   | Approx. 50° |   |   | Approx. 80° |   |   |    |               |  |     |      |
|  | 1              | 2 | 3 | 1           | 2 | 3 | 1           | 2 | 3 | 1           | 2 | 3 |    |               |  |     |      |
| Sugar  | Δ              | Δ | Δ | Δ           | Δ | Δ |             |   |   |             |   |   |    |               |  |     |      |
| <b>Water</b>   |                |   |   |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Distilled water (deionised)                          | Δ              |   |   | Δ           |   |   | Δ           |   |   |             |   |   |    |               |  | 6.4 | 30 d |
| <b>Hydrocarbons, non-aromatic</b>                    |                |   |   |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Turpentine   | Δ              | ○ | Δ | □           |   | Δ |             |   |   |             |   |   |    |               |  |     |      |
| Premium petrol                                       | Δ              | ○ | Δ | □           |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Diesel   | Δ              | ○ | Δ | □           |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Crude oil  | Δ              | ○ | Δ | Δ           |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Paraffin/kerosine                                    | □              | ○ | Δ | ○           |   |   |             |   |   |             |   |   |    |               |  |     |      |
| <b>Hydrocarbons, aromatic</b>                        |                |   |   |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Benzene  | ○              | ○ | □ |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Styrene  | ○              | ○ | ○ |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| <b>Hydrocarbons, chlorinated</b>                     |                |   |   |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Trichloroethylene (for e.g. dry cleaning)            | ○              | ○ | ○ |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Carbon tetrachloride                                 | ○              | ○ | ○ |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| <b>Alcohols</b>                                      |                |   |   |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Ethanol (present in e.g. foods and alcoholic drinks) | Δ              | Δ | Δ |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Ethanol 50%  | □              | Δ | Δ | □           | Δ | Δ |             |   |   |             |   |   |    |               |  |     |      |
| Glycol (present in e.g. antifreeze)                  | Δ              | Δ | Δ |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| <b>Oils</b>  |                |   |   |             |   |   |             |   |   |             |   |   |    |               |  |     |      |
| Lubricant (mineral oil)                              | Δ              | □ | Δ | Δ           | ○ | Δ |             |   |   |             |   |   |    |               |  |     |      |
| Lubricant (organic)                                  | □              | Δ | Δ |             |   |   |             |   |   |             |   |   |    |               |  |     |      |

| Key |                  |   |                    |
|-----|------------------|---|--------------------|
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| h   | Hours            |   |                    |
| d   | Days             |   |                    |

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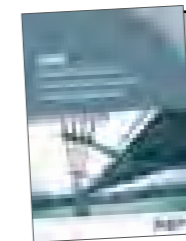
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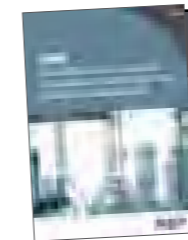
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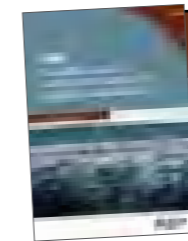
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