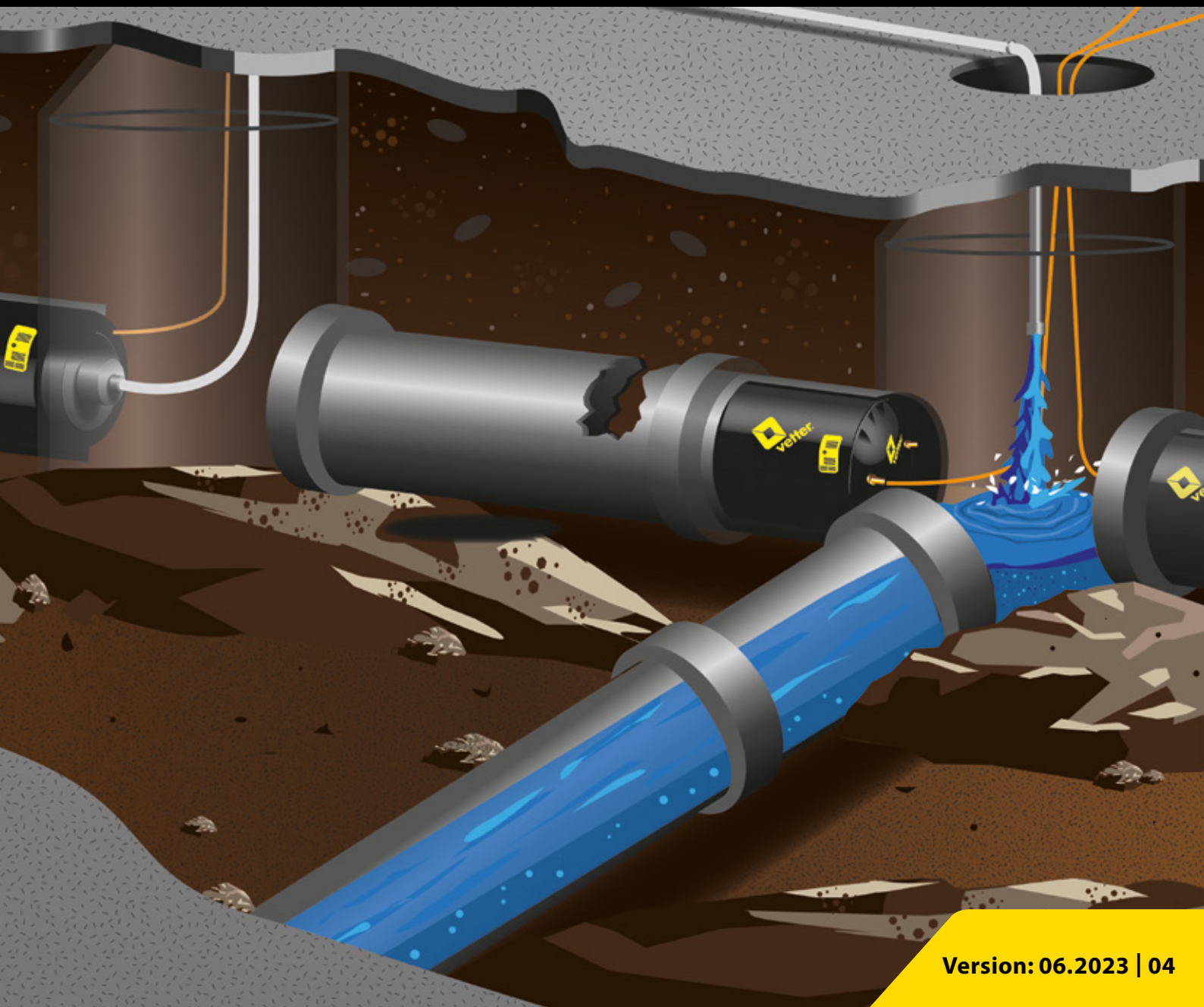


# Inspection, Sealing & Rehabilitation Technology

Product catalogue



# Special constructions

**VETTER – Always one idea ahead!**

- › Different materials
- › Many sizes and shapes possible
- › Short delivery time
- › Numerous application areas

It is precisely in the industrial sector that you will often find tool applications especially tailored to individual requirements. In this respect such aspects as flexibility and versatility are in the forefront. Pneumatic constructions are developed and produced in cooperation with the customer. The customer has numerous possibilities available with respect to material, operating pressure, size, shape, inflation connection, resistance etc.



**Pipe grip with internal expansion**



**Well packer**



**Pipe grip with external expansion**



**Pipe Sealing Bag with scale**



**Gel packer with necking**

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# Industrial Pneumatics

**Variable, flexible, sealed tight**

**We have been the leading supplier of industrial pneumatics for decades.**

Our entire portfolio is developed and tested tailor-made for professional users. That is how we guarantee you the maximum functionality and safety of our products – even under extreme conditions. You can count on it.



### **Vetter knows you.**

About 40 years of experience at the sewage market makes Vetter a partner you can rely on. We apply our experience and expertise to the constant refinement of our products. Your benefit: Sophisticated industrial pneumatics help you to get everything under control. So, you can fully concentrate on your work.



### **Vetter supports you.**

Highly specialised pneumatics is our core business. Benefit from our complete range of industrial pneumatic products – developed by our engineers in Germany. At Vetter, we are committed to a wide variety of pressure levels, materials and designs.



### **Vetter listens to you.**

Together with you, we choose the right equipment for your operational scenario. Our worldwide dealer network is there for you – before, during and after your purchase. Vetter also offers you a test service, with which our products are tested regularly on site. This means you remain operational at all times.



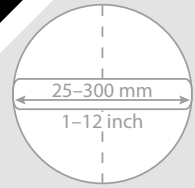
### **You can trust Vetter.**

Controlled manual work and high-quality raw materials are the basis for the success of our emergency pneumatics. Each product is tested individually before it is delivered, so that nothing goes wrong during its use. You can see this for yourself thanks to our inspection seal. By the way: almost all Vetter's rescue products are made in Germany.



# Mini pipe sealing bags

The small flexible ones



- › Extremely short design
- › Maintains counterpressure up to 1 bar (14.5 psi)
- › Very high expansion
- › Simple handling

With their short design, mini pipe sealing bags are particularly suitable for sealing building connection lines. In addition, they are always used when flexibility or the ability to negotiate bends is required. This is frequently the case for the HVAC and plumbing sector as well as for oil and gasoline separation tests according to DIN 1999 T 100. Here you are always optimally equipped with Vetter's extensive range of mini pipe sealing bags. Also available with tire valve (as accessory).



**With rounded tip:**

RDK 8/15 (Item number 1440018800)

RDK 15/20 (Item number 1440018900)

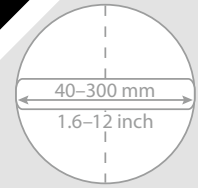
## Technical data

Standard test counter-pressure of 10 mWC (14.5 psi)

Mini pipe sealing bags <i>2.5 bar/36.25 psi</i>	Pipe diameter <i>mm/inch</i>	Diameter <i>mm/inch</i>	Cylinder length <i>mm/inch</i>	Total length <i>mm/inch</i>	Air requirement approx. <i>litre/cu. ft.</i>	Weight approx. <i>kg/lbs</i>
<b>RDK 2,5/4</b> 1440000101	25–40 1–1.6	21 0.9	115 4.5	175 7.0	0.7 0.02	0.15 0.33
<b>RDK 4/7</b> 1440000201	40–70 1.6–2.8	37 1.5	155 6.1	215 8.5	2.5 0.09	0.20 0.44
<b>RDK 7/10</b> 1440025900	70–100 2.8–4.0	68 2.7	130 5.1	175 7.0	6 0.21	0.40 0.88
<b>RDK 8/15</b> 1440018800	80–150 3.1–6	72 2.8	120 4.7	170 6.7	11 0.39	0.40 0.88
<b>RDK 10/15</b> 1440010500	100–150 4–6	89 3.5	130 5.1	175 7.0	7 0.25	0.56 1.23
<b>RDK 12,5/20</b> 1440010700	125–200 5–8	115 4.5	150 5.9	195 7.7	30 1.06	0.76 1.68
<b>RDK 15/20</b> 1440018900	150–200 6–8	90 3.5	150 5.9	195 7.7	13 0.46	0.60 1.32
<b>RDK 15/30</b> 1440010600	150–300 6–12	145 5.7	200 8.0	245 9.7	54 1.91	1.73 3.81

# Mini test sealing bags

The small ones with duct



- › Extremely short design
- › Maintains counterpressure up to 1 bar (14.5 psi)
- › Very high expansion
- › Valve extension for better handling

Vetter's mini test sealing bags are the right choice for the inspection, maintenance or cleaning of pipes or ducts as well as for leak tests. The bags with 2.5 bar (36.25 psi) are great for testing, sealing, bypassing and diverting profiles up to 300 mm (12 inch).



## Technical data

Standard test counter-pressure of 10 mWC (14.5 psi)

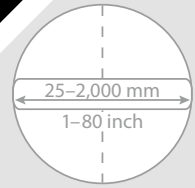
Mini test sealing bags <i>2.5 bar/36.25 psi</i>	Opening	Pipe diameter <i>mm/inch</i>	Diameter <i>mm/inch</i>	Cylinder length <i>mm/inch</i>	Total length <i>mm/inch</i>	Air requirement approx. <i>litre/cu. ft.</i>	Weight approx. <i>kg/lbs</i>
<b>PDK 4/7</b> 1441000701	1 x 4 mm 1 x 0.16"	40-70 1.6-2.8	37 1.5	155 6.1	250 9.8	3.5 0.12	0.4 0.9
<b>PDK 7/10</b> 1441043900	1/2"	70-100 2.8-4	68 2.7	190 7.5	340 13.4	6.0 0.21	0.4 0.9
<b>PDK 10/15</b> 1441035400	1/2"	100-150 4-6	90 3.5	150 6	300* 11.8*	2 0.07	1 2.2
<b>PDK 15/20</b> 1441035200	1/2"	150-200 6-8	145 5.7	195 7.7	345* 13.6*	12 0.42	2.5 5.5
<b>PDK 20/30</b> 1441035300	1"	200-300 8-12	185 7.2	250 9.8	410* 16.1*	18 0.64	4.5 9.9

\*including valve extension



# Pipe sealing bags

## The classic products



- › Large product range
- › Only 3 sizes from 100–1,000 mm (4–40 inch)
- › Very flexible due to the material
- › Simple handling since light and short

Vetter pipe sealing bags close drainage channels quickly and safely. A special feature: The user can freely adjust the contact pressure on the pipe wall from 0.5 to 2.5 bar (7.25–36.25 psi). Areas of application include repair, inspection, cleaning and maintenance of sewer pipes. But the bags also efficiently and reliably prevent the backflow of wastewater in the event of pipe bursts or floods. With these versatile applications, professionals in many industries trust pipe sealing bags from Vetter. These include, for example, road construction and civil engineering companies, sewer renovation companies, water associations and the manufacturing industry.

By the way: Vetter pipe sealing bags are perfect for leaktightness testing according to DIN EN 1610.





## Technical data

**RDK 2.5 bar – test counter-pressure of 10 mWC (14.5 psi), RDK 1.5 bar – test counter-pressure of 5 mWC (7.25 psi), RDK 0.5 bar – test counter-pressure 2 mWC (2.9 psi)**

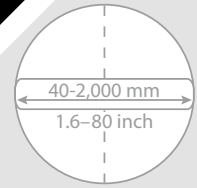
Pipe Sealing Bags	Pipe diameter	Diameter	Cylinder length	Total length	Air requirement approx.	Weight approx.	
	mm/inch	mm/inch	mm/inch	mm/inch	litre/cu. ft.	kg/lbs	
<b>RDK 2.5/4</b> 1440000101	<b>2.5 bar</b> <b>36.25 psi</b>	25–40 1–1.6	21 0.9	115 4.5	175 7.0	0.7 0.02	0.15 0.33
<b>RDK 4/7</b> 1440000201	<b>2.5 bar</b> <b>36.25 psi</b>	40–70 1.6–2.8	37 1.5	155 6.1	215 8.8	2.5 0.09	0.2 0.44
<b>RDK 7/15</b> 1440000301	<b>2.5 bar</b> <b>36.25 psi</b>	70–150 2.8–6	68 2.7	300 12	345 13.6	13.3 0.47	0.5 1.1
<b>RDK 10/20</b> 1440011700	<b>2.5 bar</b> <b>36.25 psi</b>	100–200 4–8	90 3.5	250 9.8	295 11.6	25.0 0.9	0.6 1.3
<b>RDK 15/30</b> 1440000601	<b>2.5 bar</b> <b>36.25 psi</b>	150–300 6–12	145 5.7	350 13.8	395 15.6	70.0 2.5	1.4 3.1
<b>RDK 20/40</b> 1440020100	<b>2.5 bar</b> <b>36.25 psi</b>	200–400 8–16	195 7.7	650 25.6	700 27.3	224 7.9	2.8 6.2
<b>RDK 20/50</b> 1440016700	<b>2.5 bar</b> <b>36.25 psi</b>	200–500 8–20	195 7.7	750 29.6	795 31	329 11.6	4.2 9.3
<b>RDK 30/60</b> 1440000801	<b>2.5 bar</b> <b>36.25 psi</b>	300–600 12–24	295 11.6	735 28.9	780 30.7	507.5 17.9	7.4 16.3
<b>RDK 50/100</b> 1440028200	<b>2.5 bar</b> <b>36.25 psi</b>	500–1,000 19.7–40	450 17.7	1,110 43.7	1,155 45.6	1,525 53.8	23.7 37.9
<b>RDK 60/120*</b> 1480001901	<b>1.5 bar</b> <b>21.75 psi</b>	600–1,200 24–48	580 22.8	1,320 52.0	1,365 53.7	2,475 87.4	27 59.5
<b>RDK 80/140*</b> 1480006000	<b>1.5 bar</b> <b>21.75 psi</b>	800–1,400 32–56	785 30.9	1,810 71.3	1,855 73	3,125 110.3	55 121.3
<b>RDK 140/170***</b> 1400000300	<b>0.5 bar</b> <b>7.25 psi</b>	1,400–1,700 56–67	1,350 53.2	1,900 74.8	2,150 84.7	8,700 307.1	55 121.3
<b>RDK 170/200***</b> 1400000100	<b>0.5 bar</b> <b>7.25 psi</b>	1,700–2,000 67–80	1,620 63.8	1,900 74.8	2,300 90.6	9,000 317.7	59 130.1

\*with 2 compressed air supplies | \*\*with claw coupling. Accessories according to air pressure 0.5 bar (7.25 psi)

**Note: Vetter's oil resistant CR version of the sealing bags is also available. See page 18.**

# Test sealing bags

## The testers



- › Lighter than test bag with inner tube
- › Only 3 sizes from 100–1,000 mm (4–40 inch)
- › Flexible, robust design
- › For tests according to DIN EN 1610

The extremely robust Vetter test sealing bags combine three functions in one bag: They seal, facilitate testing with water or air and can be used for bypassing or to divert. The inner hoses also make the bags more flexible than comparable bags with inner tubes. These properties enable you to adapt the test bags flexibly to the most varied pipe materials. Small unevenness is also compensated by the bags.

### The areas of application include:

- › Diversion of waste water from leaking sewers
- › Damming and metered drainage of liquids
- › Tightness tests according to DIN EN 1610 with air or water
- › Control of pipeline sections

The test bags are equipped with one or more filling coupling(s) and retaining lugs, depending on the type of bag. The connections with male threads allow a free choice of accessories. The size of the connections depends on the type of bag.



Air pressure test



## Technical data

**PDK 2.5 bar – test counter-pressure of 10 mWC (14.5 psi), PDK 1.5 bar – test counter-pressure of 5 mWC (7.25 psi), PDK 0.5 bar – test counter-pressure 2 mWC (2.9 psi)**

Test sealing bags		Pipe diameter mm/inch	Diameter mm/inch	Cylinder length mm/inch	Total length mm/inch	Air requirement approx. litre/cu. ft.	Weight approx. kg/lbs
<b>PDK 4/7 FLEX</b> 1441000701 1 x 4 mm	<b>2.5 bar</b> <b>36.25 psi</b>	40–70 1.6–2.8	37 1.5	155 6.1	250 9.8	3.5 0.12	0.4 0.88
<b>PDK 7/15 FLEX</b> 1441001201 1 x 1/2" OT	<b>2.5 bar</b> <b>36.25 psi</b>	70–150 2.8–6	68 2.7	350 13.7	395 15.4	14 0.49	1.7 3.8
<b>PDK 10/20 FLEX</b> 1441018502 1 x 1" OT	<b>2.5 bar</b> <b>36.25 psi</b>	100–200 4–8	90 3.5	300 11.8	345 13.6	15 0.53	1.3 2.9
<b>PDK 15/30 FLEX</b> 1441022800 1 x 2" OT	<b>2.5 bar</b> <b>36.25 psi</b>	150–300 6–12	145 5.7	350 13.8	395 15.6	45 1.6	3.4 7.5
<b>PDK 20/40 FLEX</b> 1441018600 1 x 2" OT	<b>2.5 bar</b> <b>36.25 psi</b>	200–400 8–16	195 7.7	640 25.0	685 26.7	225 7.9	8.6 19.0
<b>PDK 20/50 FLEX</b> 1441031200 1 x 2" OT	<b>2.5 bar</b> <b>36.25 psi</b>	200–500 8–20	185 7.3	750 29.5	795 31.3	237–333 8.37–11.8	7–9 15.4–19.8
<b>PDK 30/60 FLEX</b> 1441018701 1 x 2" OT	<b>2.5 bar</b> <b>36.25 psi</b>	300–600 12–24	295 11.6	735 28.9	815 32.1	454–471 16.03–16.6	11–12 24.3–26.5
<b>PDK 50/100 FLEX</b> 1481003501 1 x 2" OT	<b>1.5 bar</b> <b>21.75 psi</b>	500–1,000 20–40	450 17.7	1,110 43.7	1,155 45.6	1,475–1,525 52.1–53.8	27–36 59.5–79.4
<b>PDK 60/120 FLEX</b> 1481009501 1 x 2" OT	<b>1.5 bar</b> <b>21.75 psi</b>	600–1,200 24–48	580 22.8	1,320 52	1,365 53.7	2,425–2,450 85.6–86.5	35–42 77.2–92.6
<b>PDK 80/140 FLEX</b> 1481024000 1 x 2" OT	<b>1.5 bar</b> <b>21.75 psi</b>	800–1,400 32–56	785 30.9	1,810 71.3	1,855 73.0	3,075–3,100 108.5–109.4	55–69 121.3–152.2
<b>PDK 140/170 FLEX</b> 1401000400 1 x 2" OT	<b>0.5 bar</b> <b>7.25 psi</b>	1,400–1,700 56–67	1,350 53.2	1,900 74.8	2,150 84.7	8,670–8,685 306.1–306.6	62.5–70 137.8–154.4
<b>PDK 170/200 FLEX</b> 1401000700 1 x 2" OT	<b>0.5 bar</b> <b>7.25 psi</b>	1,700–2,000 67–80	1,620 63.8	1,900 74.8	2,300 90.6	8,775–8,888 309.8–313.8	64.5–70 142.2–154.4

**With one RDK and one PDK air pressure tests can be performed.  
For water pressure tests two PDK but no RDK are needed.**

## Air pressure test – Round profiles

### Sets 2.5 bar (36.25 psi) + Sets 1.5 bar (21.75 psi)

For pipes 70–1,000 mm (2.7–40 inch)

			70– 150	100– 200	150– 300	200– 400	200– 500	300– 600	500– 1,000
<b>RDK 7/15</b>	1440000301	<b>2.5 bar</b> 36.25 psi	1						
<b>PDK 7/15 FLEX</b> with duct 1 x 1/2" OT	1441001201	<b>2.5 bar</b> 36.25 psi	1						
<b>RDK 10/20</b>	1440011700	<b>2.5 bar</b> 36.25 psi		1					
<b>PDK 10/20</b> with duct 1 x 1" OT	1441018502	<b>2.5 bar</b> 36.25 psi		1					
<b>RDK 15/30</b>	1440000601	<b>2.5 bar</b> 36.25 psi			1				
<b>PDK 15/30</b> with duct 1 x 2" OT	1441022801	<b>2.5 bar</b> 36.25 psi			1				
<b>RDK 20/40</b>	1440020100	<b>2.5 bar</b> 36.25 psi				1			
<b>PDK 20/40</b> with duct 1 x 2" OT	1441018600	<b>2.5 bar</b> 36.25 psi				1			
<b>RDK 20/50</b>	1440016700	<b>2.5 bar</b> 36.25 psi					1		
<b>PDK 20/50</b> with duct 1 x 2" OT	1441031200	<b>2.5 bar</b> 36.25 psi					1		
<b>RDK 30/60</b>	1440000801	<b>2.5 bar</b> 36.25 psi						1	
<b>PDK 30/60</b> with duct 1 x 2" OT	1441018701	<b>2.5 bar</b> 36.25 psi						1	
<b>RDK 50/100</b>	1440028200	<b>2.5 bar</b> 36.25 psi							1
<b>PDK 50/100</b> with duct 1 x 2" OT	1481003501	<b>1.5 bar</b> 21.75 psi							1

#### Air test adapter

<b>Air test adapter 1/2" IT</b>	1481023600		1						
<b>Air test adapter 1" IT</b>	1481023500			1					
<b>Air test adapter 2" IT</b>	1481023400				1	1	1	1	1

#### Accessories for inflation

<b>Inflation hose</b> 10 m (32 ft.), yellow	1600029900	<b>2.5 bar</b> 36.25 psi	2	2	2	2	2	2	2
<b>Single fitting controller</b>	0250005701	<b>2.5 bar</b> 36.25 psi	1	1	1	1	1	1	1

#### Additional accessories as an option

<b>Inflation and safety hose</b> 10 m (32 ft.), yellow	1700009001	<b>0.3 bar</b> 4.35 psi	1	1	1	1	1	1	1
<b>Measurement hose</b> 10 m (32 ft.) (self-monitoring)	1700010301	<b>0.3 bar</b> 4.35 psi	1	1	1	1	1	1	1

## Sets 1.5 bar (21.75 psi) + Sets 0.5 bar ( 7.25 psi)

For pipes 600–2,000 mm (24–80 inch)

			600– 1,200	800– 1,400	1,400– 1,700	1,700– 2,000
<b>RDK 60/120</b>	1480001901	<b>1.5 bar</b> 21.75 psi	1			
<b>PDK 60/120</b> with duct 1 x 2" OT	1481009501	<b>1.5 bar</b> 21.75 psi	1			
<b>RDK 80/140</b>	1480006000	<b>1.5 bar</b> 21.75 psi		1		
<b>PDK 80/140</b> with duct 1 x 2" OT	1481024000	<b>1.5 bar</b> 21.75 psi		1		
<b>RDK 140/170</b>	1400000300	<b>0.5 bar</b> 7.25 psi			1	
<b>PDK 140/170</b> with duct 1 x 2" OT	1401000400	<b>0.5 bar</b> 7.25 psi			1	
<b>RDK 170/200</b>	1400000100	<b>0.5 bar</b> 7.25 psi				1
<b>PDK 170/200</b> with duct 1 x 2" OT	1401000700	<b>0.5 bar</b> 7.25 psi				1

### Air test adapter

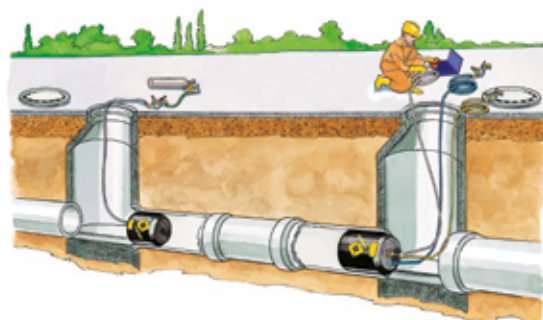
<b>Air test adapter 2" IT</b>	1481023400		1	1	1	
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### Accessories for inflation

<b>Inflation hose</b> 10 m (32 ft.), yellow	1600029900	<b>1.5 bar</b> 21.75 psi	2	2		
<b>Single fitting controller</b>	0150005401	<b>1.5 bar</b> 21.75 psi	1	1		
<b>Inflation hose</b> 10 m (32 ft.), yellow	0050001801	<b>0.5 bar</b> 7.25 psi			4	4
<b>Dual fitting controller</b>	0050000801	<b>0.5 bar</b> 7.25 psi			2	2

### Additional accessories as an option

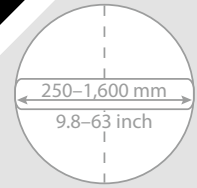
<b>Inflation and safety hose</b> 10 m (32 ft.), yellow	1700009001	<b>0.3 bar</b> 4.35 psi	1	1	1	1
<b>Measurement hose</b> 10 m (32 ft.) (self monitoring)	1700010301	<b>0.3 bar</b> 4.35 psi	1	1	1	1





## Cone bags

### Pipe sealing without compromises



- › Flexible use in almost all pipe profiles
- › Easy handling due to low weight
- › Secure closure of all pipelines
- › Available in three sizes from 250–1,600 mm

With the Vetter Cone bags you have a strong helper with you that reliably seals and, thanks to its conical shape, adapts to almost all profile types of round, egg, mouth, corner and kite profiles. This allows you to seal all types of pipelines even in difficult installation situations, allowing you to concentrate on your work on site.

Due to its low weight and compact transport format, the foldable barrier bag can be quickly positioned in the manhole by means of a drawbar eye. That is where it convinces with its extremely durable CR material in familiar Vetter quality.

Once positioned, it can be emptied quickly and easily without moving the bag in the pipe using a vacuum adapter and suction cup. You do not need a separate compressed air bottle and benefit from uncompromising quality "Made in Germany".



Additional with an adapter for working with quick-action coupling

## Technical data

<b>Cone Bags</b>	<b>Pipe diameter</b> <i>mm/inch</i>	<b>Length</b> <i>mm/inch</i>	<b>Air requirement approx.</b> <i>litre/cu. ft.</i>	<b>Weight approx.</b> <i>kg/lbs</i>
<b>KK 250-600</b> <i>1420005600</i>	250-600 9.8-23.6	1,050 41.3	433.5 15.31	5 11
<b>KK 400-1.000</b> <i>1420005700</i>	400-1,000 15.7-39.4	1,900 74.8	2,071.2 73.14	13 28.7
<b>KK 600-1.600</b> <i>1420005000</i>	600-1,600 23.6-63	3,180 125.2	8,429.5 297.69	31.8 70.1

### **Cone Bags:**

Operating pressure: 1 bar (14.5 psi)

Counterpressure: max. 0.5 bar (7.25 psi)

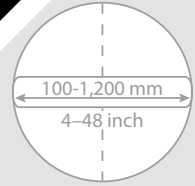


Vetter Cone bags are available in 3 sizes



# Bypass bags

Simple diversion with large flow circuit



- › Perfect handling
- › Only 3 sizes from 100–1,200 mm (4–48 inch)
- › Very light due to PE core
- › Exchangeable sleeve

With bypass bags from Vetter, you can selectively drain off wastewater in front of a damaged area and return it to the intact pipeline behind it. The largest possible flow opening makes this possible and the external thread allows free selection of the connection coupling.



Corresponding fixed- and blind coupling:



**Fixed coupling:** 2 1/2" IT (Art. no. 1700010500)  
4" IT (Art. no. 1700009900)



**Blind coupling with chain:** 2 1/2" (Art. no. 1700022400)  
4" (Art. no. 1700012600)

# Technical data

## Standard test counter-pressure of 5 mWC (7.25 psi)

Bypass bags 1.5 bar (21.75 psi)	Pipe diameter <i>mm/inch</i>	Diameter <i>mm/inch</i>	Cylinder length <i>mm/inch</i>	Total length <i>mm/inch</i>	Air requirement approx. <i>litre/cu. ft.</i>	Weight approx. <i>kg/lbs</i>
<b>PDK 10/20 PE-core</b> <i>1481004401 1 x 2 1/2" OT</i>	100–200 4–8	97 3.9	485 19.1	635 25.0	27 0.95	2.2 4.9
<b>PDK 20/50 PE-core</b> <i>1481005001 1 x 4" OT</i>	200–500 8–20	195 7.7	550 21.7	700* 27.6*	143 5.0	7 15.4
<b>PDK 50/120 PE-core</b> <i>1481008000 1 x 4" OT</i>	500–1,200 20–48	450 17.7	940 37	1,070* 42.1*	1,420 50.1	36.8 81.1

\*including valve extension.

### PDK 10/20 and PDK 20/50

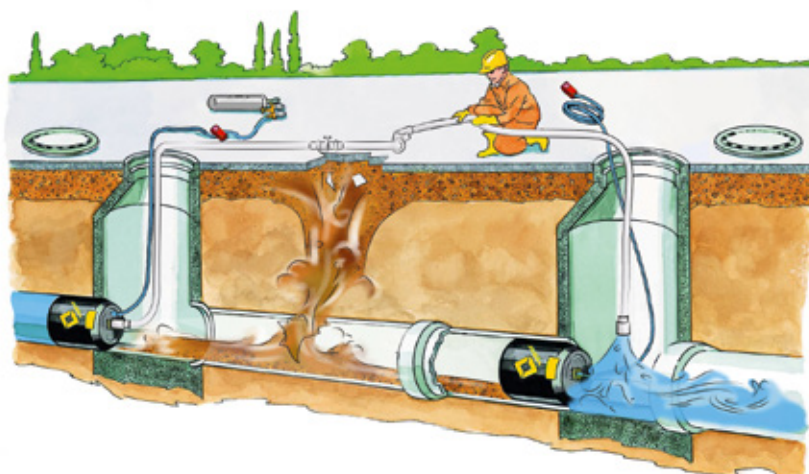


For sizes PDK 10/20 and PDK 20/50, the bypass adapters are fastened to the PE core with screws.

### PDK 50/120

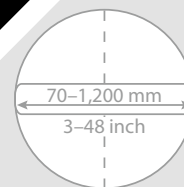


The bypass bag PDK 50/120 have the feedthroughs (also with external thread) directly in the PE core.



# Pipe sealing bags CR

The oil resistant alternative to the classics



- › Great handling (length/weight)
- › Very flexible application
- › Optionally with integrated hose
- › Excellent oil and chemical resistance

CR pipe sealing bags from Vetter are made of chloroprene rubber. This makes them significantly more resistant to mineral or heating oil than our classic pipe sealing bags made of natural rubber.

The CR pipe sealing bags are also available with an integrated filling hose as an option.



## Technical data

**RDK 2.5 bar (36.25 psi) – test counter-pressure 10 mWC (14.5 psi), RDK 1.5 bar (21.75 psi) – test counter-pressure 5 mWC (7.25 psi)**

Pipe Sealing Bags CR	Pipe diameter mm/inch	Diameter mm/inch	Cylinder length mm/inch	Total length mm/inch	Air requirement approx. litre/cu. ft.	Weight approx. kg/lbs
<b>RDK 4/7</b> 1440027300	<b>2.5 bar</b> <b>36.25 psi</b>	40–70 1.6–2.8	37 1.5	155 6.1	215 8.8	0.2 0.44
<b>RDK 7/15</b> 1440008100	<b>2.5 bar</b> <b>36.25 psi</b>	70–150 3–6	68 2.7	300 11.8	345 13.4	0.6 1.3
<b>RDK 10/20</b> 1440024300	<b>2.5 bar</b> <b>36.25 psi</b>	100–200 3.9–7.9	90 3.5	250 9.84	295 11.61	1.1 2.4
<b>RDK 15/30</b> 1440008000	<b>2.5 bar</b> <b>36.25 psi</b>	150–300 6–12	145 5.7	350 13.78	395 15.55	2.5 5.5
<b>RDK 20/40</b> 1440027100	<b>2.5 bar</b> <b>36.25 psi</b>	200–400 7.9–15.7	195 7.7	650 25.6	700 27.6	3.4 7.5
<b>RDK 30/60</b> 1440007900	<b>2.5 bar</b> <b>36.25 psi</b>	300–600 12–24	295 11.6	735 29	780 30.4	7.3 16.1
<b>RDK 60/120</b> 1480004800	<b>1.5 bar</b> <b>21.75 psi</b>	600–1,200 24–48	580 22.8	1,320 52	1,365 53.7	27 59.6

Additional sizes can be supplied on request.





More information about Vetter cone bags on page 14-15.

# Accessories – Air pressure test and water pressure testing

## Air pressure test

### Air test adapter

- › with two MS quick-connect couplings and hose

▶ 1/2" IT 1481023600

▶ 1" IT 1481023500

▶ 2" IT 1481023400



### Fill and safety hose, 0.3 bar (4.35 psi)

- › for filling the line
- › Yellow
- › 10 m (32 ft.)

▶ 1700009001



### Measuring hose, 0.3 bar (4.35 psi)

- › for self-monitoring
- › for the leak test
- › Yellow
- › 10 m (32 ft.)

▶ 1700010301



## Water pressure testing

### Fixed coupling

- › D-fixed coupling

▶ 1/2" IT 1700007600

- › D-fixed coupling

▶ 1" IT 1700016000

- › C-fixed coupling

▶ 2" IT 1700007700



### Blind coupling

- › Blind coupling with chain, Size D

▶ 1700016200

- › Blind coupling with chain, Size C

▶ 1700016600



### Blocking valve

- › Size D

▶ 1700013200

- › Size C

▶ 1700007900





## Accessories – inflating the bag

### 0.5 bar (7.25 psi)

#### Inflation hose, 0.5 bar (7.25 psi)

- › Yellow



5 m (16.4 ft.) 0050000701 | 10 m (32 ft.) 0050001801

#### Dual controller, 0.5 bar (7.25 psi)

- › Fitting controller
- › claw coupling



0050000801

### 1 bar (14.5 psi)

#### Inflation hose, 1 bar (14.5 psi)

- › Yellow



5 m (16.4 ft.) 1600030000 | 10 m (32 ft.) 1600029900

#### Simple controller, 1 bar (14.5 psi)

- › Fitting controller



0100005201

### 1.5 bar (21.75 psi)

#### Inflation hose, 1.5 bar (21.75 psi)

- › Yellow



5 m (16.4 ft.) 1600030000 | 10 m (32 ft.) 1600029900

#### Inflation and safety hose, 1.5 bar (21.75 psi)

- › Yellow
- › 10 m (32 ft.)



0150005500

#### Simple controller, 1.5 bar (21.75 psi)

- › Fitting controller



0150005401

## Accessories – inflating the bag

### 2.5 bar (36.25 psi)

#### Inflation hose, 2.5 bar (36.25 psi)

- › Yellow



› 5 m (16.4 ft.) 1600030000 | 10 m (32 ft.) 1600029900

#### Simple controller, 2.5 bar (36.25 psi)

- › Fitting controller

› 0250005701



#### Inflation and safety hose, 2.5 bar (36.25 psi)

- › Yellow
- › 10 m (32 ft.)



› 0250005800

#### Foot pump 2.5 bar (36.25 psi)

- › with safety valve

› 0250005300



### Cone bag accessories

#### Inflation hose, 1 bar (14.5 psi)

- › Yellow



› 5 m (16.4 ft.) 0100005800 | 10 m (32 ft.) 0100005700

#### Single controller, 1 bar (14.5 psi)

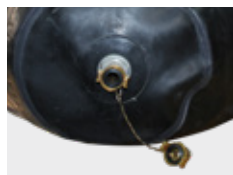
- › Fitting controller

› 0100005600



#### Adaptor claw to quick-action coupling

› 1420005800





# Accessories – inflating the bag

## Accessories for inflating

### Air supply hose, 1 bar (14.5 psi)

- › Green
- › 10 m (32 ft.)
- › with cut-off valve



▶ **1600013601**

### Hand air pump

- › 520 ccm/lift

▶ **1600008700**



### Adapter

- › for portable compressor/permanent compressed air network



▶ **1600008200**

### Foot pump

- › 420 ccm/lift

▶ **1600009400**



### Tyre valve

▶ **1600008000**



### Adapter

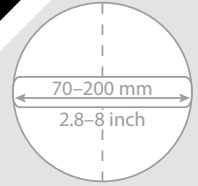
- › for construction compressors

▶ **1600012000**



## Lateral packers

The intelligent solution that saves money



- › High flexibility
- › Robust cone heads

Vetter lateral packers are the optimal solution for the rehabilitation of pipes with smaller diameters, as they are often used for building connections. The flexible construction facilitates good sliding qualities, bend flexibility and practical handling which reduces your working hours. The open safety coupling with a lock pin prevents unwanted decoupling. In addition, the entire packer has a very robust design.

The lateral packers are available in three sizes from 70 to 200 mm (2.8-8 inch) and lengths up to 3 m (118.1 inch).



Sturdy spherical heads

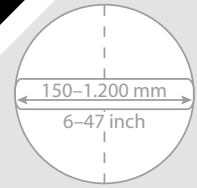


## Technical data

<b>Lateral packers</b> <i>2.5 bar/36.25 psi</i>	<b>Application range (from-to)</b> <i>mm/inch</i>	<b>Packer length approx.</b> <i>mm/inch</i>	<b>Application length in largest diam.</b> <i>mm/inch</i>	<b>Application length in smallest diam.</b> <i>mm/inch</i>	<b>Packer diameter approx.</b> <i>mm/inch</i>	<b>Weight approx.</b> <i>kg/lbs</i>
<b>Typ 70-110</b> <i>1491019600</i>	70-110 2.8-4.3	1,000 39	800 31.5	890 35	51 2	1.1 2.4
<b>Typ 70-110</b> <i>1491067000</i>	70-110 2.8-4.3	1,500 59.1	1,300 51.2	1,390 54.7	51 2	1.6 3.5
<b>Typ 70-110</b> <i>1491019800</i>	70-110 2.8-4.3	2,000 79	1,800 70.9	1,890 74.5	51 2	2 4.4
<b>Typ 70-110</b> <i>1491067100</i>	70-110 2.8-4.3	2,500 98.4	2,300 90.6	2,390 94.1	51 2	2.4 5.3
<b>Typ 70-110</b> <i>1491020000</i>	70-110 2.8-4.3	3,000 118	2,800 110.2	2,890 114	51 2	2.8 6.2
<b>Typ 100-150</b> <i>1491031500</i>	100-150 4-6	1,000 39	750 30	840 33	66 2.6	1.1 2.4
<b>Typ 100-150</b> <i>1491067200</i>	100-150 4-6	1,500 59.1	1,250 49.2	1,340 52.8	66 2.6	1.7 3.7
<b>Typ 100-150</b> <i>1491018200</i>	100-150 4-6	2,000 79	1,750 69	1,840 72	66 2.6	2.2 4.9
<b>Typ 100-150</b> <i>1491067300</i>	100-150 4-6	2,500 98.4	2,250 88.6	2,340 92.1	66 2.6	2.7 6
<b>Typ 100-150</b> <i>1491018300</i>	100-150 4-6	3,000 118	2,750 108	2,840 112	66 2.6	3.3 7.3
<b>Typ 150-200</b> <i>1491019100</i>	150-200 6-8	1,000 39	720 28	800 32	92 3.6	1.6 3.5
<b>Typ 150-200</b> <i>1491067400</i>	150-200 6-8	1,500 59.1	1,220 48	1,300 51.2	92 3.6	2.3 5.1
<b>Typ 150-200</b> <i>1491018700</i>	150-200 6-8	2,000 79	1,720 68	1,800 71	92 3.6	3 6.6
<b>Typ 150-200</b> <i>1491067500</i>	150-200 6-8	2,500 98.4	2,220 87.4	2,300 90.6	92 3.6	3.8 8.4
<b>Typ 150-200</b> <i>1441013600</i>	150-200 6-8	3,000 118	2,720 107	2,800 110	92 3.6	4.5 9.9

# Flexible packers

## The adaptable solution



- › Stable running gear
- › High flexibility
- › Adjustable chassis

Vetter flexible packers are the really flexible solution for drain reconstruction. Its design allows you to easily guide the packer through a manhole and install it in the damaged pipe. This is ensured, for example, by the spherical chassis with a light spring effect. So problem-free gliding even over offsets is no problem. The wheels are set at a 120° angle. This makes it easy to control the packer. In addition, you can adjust the chassis individually to any pipe diameter.

Flexible packers from Vetter are made of a rubber jacket that is vulcanised onto metal heads. The interior tube lets the water flow off during the renovation work and the open safety coupling with safety pin prevents unintentional disconnection.

Vetter flexible packers are available in four sizes for pipe diameters from 150 to 1,200 mm (6–47 inch) and in lengths of up to 3 m (118.1 inch).



Full flexibility and guaranteed stability



flow-through openings of the flex packers

## Technical data

- › Type 150 – 250 through-flow openings of 1"
- › Type 200 – 300 and Type 300 – 400 through-flow openings of 2"
- › From Type 400 – 600 through-flow openings of 3"

Flexible packers		Application range (from-to)	Packer length approx.	Application length in largest diam.	Application length in smallest diam.	Packer diameter approx.	Packer length, with carriage approx.	Weight approx.
		mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/lbs
<b>Typ 150–250</b> 1491045901	<b>2.5 bar</b>	150–250	1,000	680	780	105	1,130	6.4
	<b>36.25 psi</b>	6–10	39.4	26.8	30.8	4.1	44.5	14.1
<b>Typ 150–250</b> 1491066300	<b>2.5 bar</b>	150–250	1,500	1,180	1,280	105	1,630	8
	<b>36.25 psi</b>	6–10	59.1	46.5	50.4	4.1	64.2	17.6
<b>Typ 150–250</b> 1491046001	<b>2.5 bar</b>	150–250	2,000	1,680	1,780	105	2,130	10.0
	<b>36.25 psi</b>	6–10	78.7	66.1	70	4.1	83.9	22
<b>Typ 150–250</b> 1491066400	<b>2.5 bar</b>	150–250	2,500	2,180	2,280	105	2,630	12
	<b>36.25 ps</b>	6–10	98.4	85.8	89.8	4.1	103.5	26.5
<b>Typ 150–250</b> 1491046101	<b>2.5 bar</b>	150–250	3,000	2,680	2,780	105	3,130	14.0
	<b>36.25 psi</b>	6–10	118.1	105.5	109.4	4.1	123.2	30.9
<b>Typ 200–300</b> 1491044801	<b>1.5 bar</b>	200–300	1,000	590	690	170	1,130	10
	<b>21.75 psi</b>	8–12	39.4	23.2	27.2	6.7	44.5	22.1
<b>Typ 200–300</b> 1491066500	<b>1.5 bar</b>	200–300	1,500	1,090	1,190	170	1,630	12.5
	<b>21.75 psi</b>	8–12	59.1	42.91	46.9	6.7	64.2	27.6
<b>Typ 200–300</b> 1491046301	<b>1.5 bar</b>	200–300	2,000	1,590	1,690	170	2,130	15
	<b>21.75 psi</b>	8–12	78.7	62.5	66.6	6.7	83.9	33.1
<b>Typ 200–300</b> 1491066600	<b>1.5 bar</b>	200–300	2,500	2,090	2,190	170	2,630	17.5
	<b>21.75 psi</b>	8–12	98.4	82.3	86.2	6.7	103.5	38.6
<b>Typ 200–300</b> 1491046401	<b>1.5 bar</b>	200–300	3,000	2,590	2,690	170	3,130	20
	<b>21.75 psi</b>	8–12	118	102	106	6.7	123.3	44.1
<b>Typ 300–400</b> 1491044901	<b>1.5 bar</b>	300–400	1,000	560	660	230	1,170	13.2
	<b>21.75 psi</b>	12–16	39.4	22	26	9	46.1	29.1
<b>Typ 300–400</b> 1491066700	<b>1.5 bar</b>	300–400	1,500	1,060	1,160	230	1,670	16.5
	<b>21.75 psi</b>	12–16	59.1	41.7	45.7	9	65.7	36.4
<b>Typ 300–400</b> 1491046601	<b>1.5 bar</b>	300–400	2,000	1,560	1,660	230	2,170	19.4
	<b>21.75 psi</b>	12–16	78.7	61.5	65.5	9	85.5	42.8
<b>Typ 300–400</b> 1491066800	<b>1.5 bar</b>	300–400	2,500	2,060	2,160	230	2,670	23
	<b>21.75 psi</b>	12–16	98.4	81.1	85.0	9	105.1	50.7
<b>Typ 300–400</b> 1491046701	<b>1.5 bar</b>	300–400	3,000	2,560	2,660	230	3,170	26
	<b>21.75 psi</b>	12–16	118	100.8	104.7	9	124.8	57.3
<b>Typ 400–600</b> 1491045701	<b>1.5 bar</b>	400–600	1,500	980	1,240	350	1,670	26.1
	<b>21.75 psi</b>	16–24	59.1	38.6	48.8	13.8	65.7	57.6
<b>Typ 400–600</b> 1491059500	<b>1.5 bar</b>	400–600	2,000	1,400	1,450	350	2,170	29
	<b>21.75 psi</b>	16–24	78.7	55.1	57	13.8	85.4	63.9
<b>Typ 600–800</b> 1491059001	<b>1 bar</b>	600–800	1,500	700	900	400	1,670	29
	<b>14.50 psi</b>	24–31.5	59.1	27.6	35.4	15.7	65.7	63.9
<b>Typ 800–1.000</b> 1491058601	<b>1 bar</b>	800–1,000	1,500	520	760	550	1,670	50
	<b>14.50 psi</b>	31.5–39.4	59.1	20.5	29.9	21.7	65.7	110.2
<b>Typ 1.000–1.200</b> 1491059600	<b>1 bar</b>	1,000–1,200	2,200	1,000	1,200	550	2,370	73
	<b>14.50 psi</b>	39.4–47.2	86.6	39.4	47.2	21.7	93.3	160.9

# Counterpressure tables

Measured in dry metal pipe

## Mini pipe sealing bags

Diameter mm/inch	RDK 2.5/4 1440000101	RDK 4/7 1440000201	RDK 7/10 1440025900	RDK 8/15 1440018800	RDK 10/15 1440010500	RDK 12.5/20 1440010700	RDK 15/20 1440018900	RDK 15/30 1440010600
<b>2.5 bar (36.25 psi)</b>								
25/1	1.6/23.2							
40/1.6	1.4/20.3	1.65/23.9						
50/2		1.5/21.8						
70/2.8		1.25/18.1	1.5/21.8					
80/3.1			1.3/18.9	1.35/19.6				
90/3.5			1.3/18.9	1.25/18.1				
100/4			1.3/18.9	1.25/18.1	1.4/20.3			
125/5				1.25/18.1	1.35/19.6		1.4/20.3	
150/6				1.05/15.2	1.3/19.6	1.15/16.7	1.3/18.9	1.35/19.6
200/8						1.1/15.9	1.25/18.1	1.3/18.9
250/10								1.25/18.1
300/12								1.25/18.1

## Pipe sealing bags

Diameter mm/inch	RDK 7/15 1440000301 1440008100 (CR)	RDK 10/20 1440011700	RDK 15/30 1440000601 1440008000 (CR)	RDK 20/40 1440020100	RDK 20/50 1440016700	RDK 30/60 1440000801 1440007900 (CR)	RDK 50/100 1440028200
<b>2.5 bar (36.25 psi)</b>							
70/2.8	2.1/30.5						
80/3.1	2/29						
90/3.5	1.8/26.1						
100/4	1.7/24.7	2.4/35					
125/5	1.6/23.2	2.0/29					
150/6	1.1/16	1.85/26.8	2.4/35				
200/8		1.3/18.9	2.1/30.5	2.3/33.4	2.2/31.9		
250/10			1.5/21.8	2.3/33.4	2/29		
300/12			1.0/14.5	2.1/30.5	2/29	2.3/33.4	
400/16				1.9/28	1.9/28	2/29	
500/20					1.7/24.7	1.9/28	2.05/29.7
600/24						1.6/23.2	1.95/28.3
800/32							1.6/23.2
1,000/40							1.2/17.4

Diameter mm/inch	RDK 60/120 1480001901 1480004800 (CR)	RDK 80/140 1480006000
<b>1.5 bar (21.75 psi)</b>		
600/24	1.1/16	
800/32	0.95/13.8	0.5/7.3
1,000/40	0.85/12.3	0.5/7.3
1,200/48	0.75/10.9	0.5/7.3
1,400/56		0.5/7.3

Diameter mm/inch	RDK 140/170 1400000300	RDK 170/200 1400000100
<b>0.5 bar (7.25 psi)</b>		
500/20		
600/24		
800/32		
1,000/40		
1,200/48		
1,400/56	0.2/2.9	
1,700/67	0.2/2.9	0.2/2.9
2,000/80	0.2/2.9	0.2/2.9

## Mini test sealing bags

Diameter mm/inch	PDK 4/7 1441000701	PDK 7/10 1441043900	PDK 10/15 1441035400	PDK 15/20 1441035200	PDK 20/30 1441035300
<b>2.5 bar (36.25 psi)</b>					
25/1					
40/1.6	1.8/26.1				
50/2	1.6/23.2				
70/2.8	1.3/18.9	1.3/18.9			
80/3.1		1.3/18.9			
90/3.5		1.3/18.9			
100/4		1.3/18.9	1.5/21.8		
125/5			1.25/18.1		
150/6			1.2/17.4	1.3/18.9	
200/8				1.2/17.4	1.25/18.1
250/10					1.25/18.1
300/12					1.25/18.1

All counter-pressure stated in bar and inch

## Test sealing bags

Diameter mm/inch	PDK 4/7 FLEX 1441000701	PDK 7/15 FLEX 1441001201	PDK 10/20 FLEX 1441018502	PDK 15/30 FLEX 1441022801	PDK 20/40 FLEX 1441018600	PDK 20/50 FLEX 1441031200	PDK 30/60 FLEX 1441018701
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### 2.5 bar (36.25 psi)

40/1.6	1.3/18.9						
70/2.8	1.3/18.9	1.55/22.5					
80/3.1		1.75/25.4					
90/3.5		1.7/24.7					
100/4		1.65/23.9	1.6/23.2				
125/5		1.5/21.8	1.5/21.8				
150/6		1.4/20.3	1.4/20.3	1.65/23.9			
200/8			1.45/21.0	1.6/23.2	1.45/21.0	2/29.0	
250/10				1.5/21.8	1.3/18.9	1.7/24.7	
300/12				1.3/18.9	1.35/19.6	1.65/23.9	1.6/23.2
400/16					1.3/19.6	1.5/21.8	1.65/23.9
500/20						1.35/19.6	1.4/20.3
600/24							1.3/18.9
800/32							
1,000/40							
1,200/48							
1,400/56							
1,700/67							
2,000/80							

Diameter mm/inch	PDK 50/100 FLEX 1481003501	PDK 60/120 FLEX 1481009501	PDK 80/140 FLEX 1481024000
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### 1.5 bar (21.75 psi)

500/20	1.2/17.4		
600/24	1.2/17.4	1.05/15.2	
800/32	1/14.5	0.9/13.1	0.5/7.3
1,000/40	0.55/8.0	0.8/11.6	0.5/7.3
1,200/48		0.75/10.9	0.5/7.3
1,400/56			0.5/7.3
1,700/67			
2,000/80			

Diameter mm/inch	PDK 140/170 FLEX 1401000400	PDK 170/200 FLEX 1401000700
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### 0.5 bar (7.25 psi)

500/20		
600/24		
800/32		
1,000/40		
1,200/48		
1,400/56	0.2/2.9	
1,700/67	0.2/2.9	0.2/2.9
2,000/80	0.2/2.9	0.2/2.9



# Vetter resistance list

## Convincing with transparency

Please note: The information in our resistance list is based on laboratory tests and empirical values. A material reacts faster to chemicals under expansion than at rest. That means the greater the expansion, the lower the chemical resistance. In addition, the resistance also depends on the thickness of the material, which influences diffusion. Furthermore, other variable factors, such as temperature, intensity or exposure time, also have an influence on the durability.

The values given may therefore differ in the concrete application scenario and are to be understood here only as an indication. We are glad to provide material samples for your own investigations of the chemical resistance.

### Key

+ resistant

- not resistant

o conditionally resistant

n.d. no data

## Temperature resistance

Products	Cold resistance	Cold flexible	Heat resistance, long term	Heat resistance, short time
Mini Test Sealing Bags				
Pipe Sealing Bags 1.5 bar (21.75 psi)				
Pipe Sealing Bags 2.5 bar (36.25 psi)				
Test Sealing Bags 1.5 bar (21.75 psi)				
Test Sealing Bags 2.5 bar (36.25 psi)				
Bypass Bags 1.5 bar (21.75 psi)				
Pipe Sealing Bags CR	-40 °C	-20 °C	+90 °C	+115 °C
High Pressure Pipe Sealing Bags				
Test Sealing Bags for Gullies				
Protection Sleeve				
Lateral packers				
Flexible packers				
Pipe Sealing Bags 0.5 bar (7.25 psi)	-40 °C	-20 °C	+50 °C	--
Test Sealing Bags 0.5 bar (7.25 psi)	-30 °C	--	+70 °C	--
Cone Bags 1 bar (14.5 psi)	-20 °C	--	+55 °C	--
Controller: Aluminium- and fitting	-20 °C	--	--	+55 °C
Rubber hoses	-40 °C	-30 °C	+90 °C	--

## Material list

Products	Material	Support material
Mini Pipe Sealing Bags		
High Pressure Pipe Sealing Bags		
Protection Sleeve	NR	Nylon cord
Lateral packers		
Flexible packers		
Mini Test Sealing Bags	NR	NR
Pipe Sealing Bags 1.5 bar (21.75 psi)		
Pipe Sealing Bags 2.5 bar (36.25 psi)		
Test Sealing Bags 1.5 bar (21.75 psi)	NR	Nylon cord/Aramid
Test Sealing Bags 2.5 bar (36.25 psi)		
Bypass Bags 1.5 bar (21.75 psi)		
Pipe Sealing Bags 0.5 bar (7.25 psi)	CR/NR	Nylon cord/Aramid
Test Sealing Bags 0.5 bar (7.25 psi)		
Pipe Sealing Bags CR		
Cone Bags 1 bar (14.5 psi)	CR	Nylon cord
Test Sealing Bags for Gullies		
Inflation hoses and air supply hoses (outside)	EPDM	Polyester

We are glad to provide material samples for your own investigations of the chemical resistance.

## Resistance list\*

Material designation	CR	NR	EPDM
Aceton	o	+	-
Acetylen	+	+	-
Alum, aqueous	+	+	-
Aluminium chloride	+	+	+
Aniline	-	n.d.	n.d.
ASTM oil 1	o	-	-
Petrol	o	-	n.d.
Benzene	-	-	-
Boracic acid	+	+	+
Bromine (moist)	-	-	-
Butyric acid	-	-	n.d.
Chlorine gas (moist)	-	-	n.d.
Chlorine, wet	o	-	o
Diesel fuel	o	-	-
Iron chloride	+	+	+
Petroleum	o	-	-
Acetic acid	o	+	o
Fatty acids	+	o	-
Formaldehyde	+	+	+
Glucose	+	+	+
Heating oil	+	-	-
Potassium chloride	+	+	+
Calcium chloride	+	+	+
Calcium nitrate	+	+	+
Carbon dioxide	+	+	+
Carbon monoxide	+	+	+
Copper sulphate	+	+	+
Glue	+	+	+
Methyl chloride	-	-	o
Seawater	+	+	n.d.
Mineral oils	+	-	-
Sodium carbonate	+	+	-
Ozone	+	-	+
Paraffin	+	-	-
Perchloric acid	o	n.d.	+
Phenol (aqueous)	-	-	+
Phosphoric acid (concentrated)	-	-	-
Mercury	+	+	+
Nitric acid (fuming)	-	-	-
Sulphur dioxide (dry)	-	o	n.d.
Sulphuric acid (50%)	+	-	-
Nitrogen	+	+	+
Carbon tetrachloride	-	-	-
Animal fats	+	-	+
Toluene	-	-	-

\*Subject to change without notice | + resistant | o conditionally resistant | - not resistant | n.d. no data







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