ENGLISH

PRODUCT CATALOGUE

Inspection, Sealing & Rehabilitation Solutions



vetter

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.











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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.



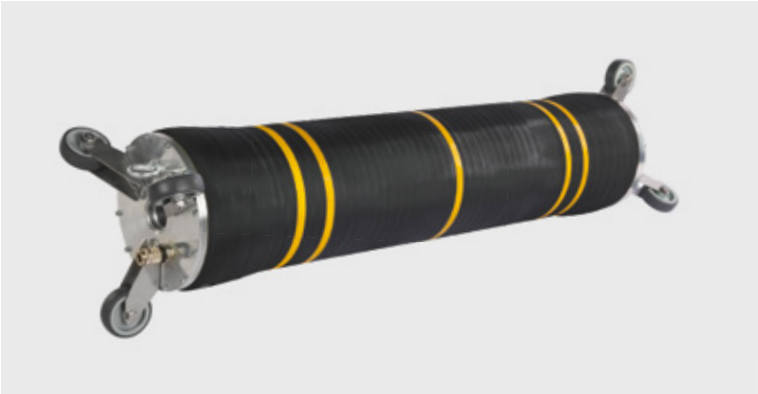
Vetter knows you.

About 50 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 commited to a wide variety of pressure levels, materials and designs.

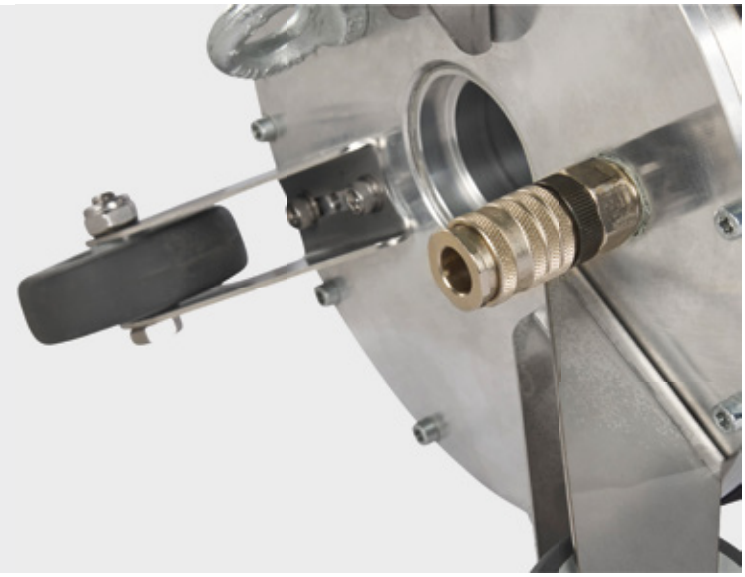






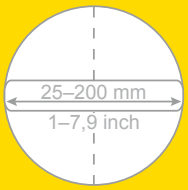






Mini pipe sealing plugs

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).



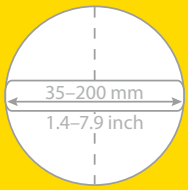
Technical data

Standard test back pressure of 10 mWC (14.5 psi)

Mini pipe sealing bags *2.5 bar/36.25 psi*	Pipe diameter *mm/inch*	Diameter *mm/inch*	Cylinder lenght *mm/inch*	Total lenght *mm/inch*	Air requirement approx. *litre/cu. ft.*	Weight approx. *kg/lbs*
RDK 2.5/4 *1492000200*	25–40 *1–1.6*	23 *0.9*	100 *3.9*	150 *5.9*	0.6 *0.02*	0.12 *0.26*
RDK 3.5/7 *1492000300*	35–70 *1.4–2.8*	32 *1.3*	200 *7.9*	250 *9.8*	2.7 *0.10*	0.20 *0.44*
RDK 7/10 *1492000400*	70–100 *2.8–3.9*	65 *2.6*	150 *5.9*	200 *7.9*	6.7 *0.24*	0.35 *0.77*
RDK 10/15 *1492000500*	100–150 *3.9–5.9*	85 *3.3*	150 *5.9*	200 *7.9*	8 *0.28*	0.45 *0.99*
RDK 15/20 *1492000600*	150–200 *5.9–7.9*	135 *5.3*	200 *7.9*	250 *9.8*	15.2 *0.54*	0.6 *1.32*

Mini test sealing plugs

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

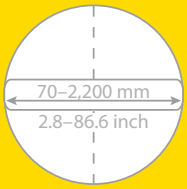
Standard test counter-pressure of 10 mWC (14.5 psi)

Mini pipe testing plugs *2.5 bar/36.25 psi*	**Bypass Ø** *inch*	**Pipe diameter** *mm/inch*	**Diameter** *mm/inch*	**Cylinder lenght** *mm/inch*	**Total lenght** *mm/inch*	**Air requirement approx.** *litre/cu. ft.*	**Weight approx.** *kg/lbs*
PDK 3.5/7 *1492000900*	M6	35–70 *1.4–2.8*	32 *1.3*	200 *7.9*	250 *9.8*	2.7 *0.10*	0.4 *0.88*
PDK 7/10 *1492001000*	1/4“	70–100 *2.8–3.9*	65 *2.6*	150 *5.9*	200 *7.9*	6.7 *0.24*	0.45 *0.99*
PDK 10/15 *1492001100*	1/2“	100–150 *3.9–5.9*	85 *3.3*	150 *5.9*	200 *7.9*	8 *0.28*	0.6 *1.32*
PDK 15/20 *1492001200*	1“	150–200 *5.9–7.9*	135 *5.3*	200 *7.9*	250 *9.8*	15.2 *0.54*	1.5 *3.31*

Pipe sealing plugs

The classic products

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

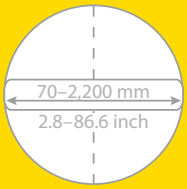
Pipe Sealing Bags		Pipe diameter *mm/inch*	Diameter *mm/inch*	Cylinder lenght *mm/inch*	Total lenght *mm/inch*	Air requirement approx. *litre/cu. ft.*	Weight approx. *kg/lbs*
RDK 7/15 *1440000301*	**2.5 bar** **36.25 psi**	70–150 *2.8–5.9*	68 *2.7*	300 *11.8*	345 *13.6*	13.3 *0.47*	0.5 *1.10*
RDK 10/20 *1440011700*	**2.5 bar** **36.25 psi**	100–200 *3.9–7.9*	90 *3.5*	250 *9.8*	295 *11.6*	25 *0.88*	0.7 *1.54*
RDK 15/30 *1440000601*	**2.5 bar** **36.25 psi**	150–300 *5.9–11.8*	145 *5.7*	350 *13.8*	395 *15.6*	70 *2.24*	1.5 3.31
RDK 20/40 *1440020100*	**2.5 bar** **36.25 psi**	200–400 *7.9–15.7*	195 *7.7*	650 *25.6*	700 27.6	224 *7.91*	3.1 *6.84*
RDK 20/50 *1440016700*	**2.5 bar** **36.25 psi**	200–500 *7.9–19.7*	195 *7.7*	750 *29.5*	795 *31.3*	329 *11.62*	4 *8.82*
RDK 30/60 *1440000801*	**2.5 bar** **36.25 psi**	300–600 *11.8–23.6*	295 *11.6*	735 *28.9*	780 *30.7*	507.5 *17.92*	6.8 *14.99*
RDK 50/100 *1440028200*	**2.5 bar** **36.25 psi**	500–1,000 *19.7–39.4*	450 *17.7*	1,110 *43.7*	1,155 *45.5*	1,987 *70.17*	17.6 *38.81*
RDK 60/120 *1480001901*	**1.5 bar** **21.75 psi**	600–1,200 *23.6–47.2*	580 *22.8*	1,320 *52.0*	1,365 *53.7*	2,475 *87.4*	27.6 *60.86*
RDK 80/160 *1492000700*	**1.5 bar** **21.75 psi**	800–1,600 *31.5–63*	780 *30.7*	2,000 *78.7*	2,050 *80.7*	3,410 *120.42*	69 *152.15*
RDK 80/220 *1492000800*	**1.5 bar** **21.75 psi**	800–2,200 *31.5–86.6*	780 *30.7*	3,200 *126*	3,250 *128*	5,457 *192.71*	110 *242.55*

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

Test sealing plugs

The testers

- **Lighter than test bag with inner tube**
- **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 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)

Test sealing bags	Operating pressure *bar/psi*	Bypass Ø *inch*	Pipe diameter *mm/inch*	Diameter *mm/inch*	Cylinder lenght *mm/inch*	Total lenght *mm/inch*	Air requirement approx. *litre/cu. ft.*	Weight approx. *kg/lbs*
PDK 7/15 *1441001201*	2.5 *36.25*	1 x 1/2" OT	70–150 *2.8–5.9*	68 *2.7*	350 *13.8*	395 *15.6*	14 *0.49*	1 *2.21*
PDK 10/20 *1441018502*	2.5 *36.25*	1 x 1/2" OT	100–200 *3.9–7.9*	90 *3.5*	510 *20.1*	555 *21.9*	40.3 *1.42*	1.3 *2.87*
PDK 15/30 *1441022801*	2.5 *36.25*	1 x 1/2" OT	150–300 *5.9–11.8*	145 *5.7*	460 *18.1*	505 *19.9*	87.5 *3.09*	3 *6.62*
PDK 20/40 *1441018600*	2.5 *36.25*	1 x 1/2" OT	200–400 *7.9–15.7*	195 *7.7*	640 *25.2*	685 *27.0*	225 7.95	5.3 *11.69*
PDK 20/50 *1441031200*	2.5 *36.25*	1 x 1/2" OT	200–500 *7.9–19.7*	195 *7.7*	750 *29.5*	795 *31.3*	333 *11.76*	6.5 *14.33*
PDK 30/60 *1441018701*	2.5 *36.25*	1 x 1/2" OT	300–600 *11.8–23.6*	295 *11.6*	735 *28.9*	815 *32.1*	471 *16.63*	9.6 *21.17*
PDK 50/100 *1481003501*	1.5 *21.75*	1 x 2" OT	500–1,000 *19.7–39.4*	450 *17.7*	1,110 *43.7*	1,155 *45.5*	1,475 *52.09*	23 *50.72*
PDK 60/120 *1481009501*	1.5 *21.75*	1 x 2" OT	600–1,200 *23.6–47.2*	580 *22.8*	1,320 *52.0*	1,365 *53.7*	2,425 *85.64*	34.2 *75.41*
PDK 80/160 *1492001300*	1.5 *21.75*	1 x 4" OT	800–1,600 *31.5–63.0*	780 *30.7*	2,000 *78.7*	2,150 *84.6*	3,410 *120.42*	107 *235.94*
PDK 80/220 *1492001400*	1.5 *21.75*	1 x 4" OT	800–2,200 *31.5–86.6*	780 *30.7*	3,200 *126.0*	3,350 *131.9*	5,457 *192.71*	235 *518.18*

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
RDK 7/15	*1440000301*	**2.5 bar** 36.25 psi	1						
PDK 7/15 FLEX with duct 1 x 1/2“ OT	*1441001201*	**2.5 bar** 36.25 psi	1						
RDK 10/20	*1440011700*	**2.5 bar** 36.25 psi		1					
PDK 10/20 with duct 1 x 1“ OT	*1441018502*	**2.5 bar** 36.25 psi		1					
RDK 15/30	*1440000601*	**2.5 bar** 36.25 psi			1				
PDK 15/30 with duct 1 x 2“ OT	*1441022801*	**2.5 bar** 36.25 psi			1				
RDK 20/40	*1440020100*	**2.5 bar** 36.25 psi				1			
PDK 20/40 with duct 1 x 2“ OT	*1441018600*	**2.5 bar** 36.25 psi				1			
RDK 20/50	*1440016700*	**2.5 bar** 36.25 psi					1		
PDK 20/50 with duct 1 x 2“ OT	*1441031200*	**2.5 bar** 36.25 psi					1		
RDK 30/60	*1440000801*	**2.5 bar** 36.25 psi						1	
PDK 30/60 with duct 1 x 2“ OT	*1441018701*	**2.5 bar** 36.25 psi						1	
RDK 50/100	*1440028200*	**2.5 bar** 36.25 psi							1
PDK 50/100 with duct 1 x 2“ OT	*1481003501*	**1.5 bar** 21.75 psi							1
Air test adapter									
Air test adapter 1/2“ IT	*1481023600*		1						
Air test adapter 1“ IT	*1481023500*			1					
Air test adapter 2“ IT	*1481023400*				1	1	1	1	1
Accessories for inflation									
Inflation hose 10 m (32 ft.), yellow	*1600029900*	**2.5 bar** 36.25 psi	2	2	2	2	2	2	2
Single fitting controller	*0250005701*	**2.5 bar** 36.25 psi	1	1	1	1	1	1	1
Additional accessories as an option									
Inflation and safety hose 10 m (32 ft.), yellow	*1700009001*	**0.3 bar** 4.35 psi	1	1	1	1	1	1	1
Measurement hose 10 m (32 ft.) (self-monitoring)	*1700010301*	**0.3 bar** 4.35 psi	1	1	1	1	1	1	1

Sets 1.5 bar (21.75 psi)

For pipes 600–2,200 mm (24–86.6 inch)			600–1,200	800–1,600	800–2,200
RDK 60/120	*1480001901*	**1.5 bar** 21.75 psi	**1**		
PDK 60/120 with duct 1 x 2“ OT	*1481009501*	**1.5 bar** 21.75 psi	**1**		
RDK 80/160	*1492000700*	**1.5 bar** 21.75 psi		**1**	
PDK 80/160 with duct 1 x 4“ OT	*1492001300*	**1.5 bar** 21.75 psi		**1**	
RDK 80/220	*1492000800*	**1.5 bar** 21.75 psi			**1**
PDK 80/220 with duct 1 x 4“ OT	*1492001400*	**1.5 bar** 21.75 psi			**1**

Air test adapter

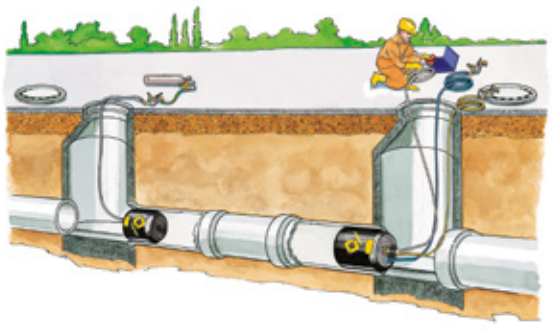
Air test adapter 2“ IT	*1481023400*		**1**		
Air test adapter 4“ IT	*1492005500*			**1**	**1**

Accessories for inflation

Inflation hose 10 m (32 ft.), yellow	*1600029900*	**1.5 bar** 21.75 psi	**2**	**2**	**2**
Single Fitting controller	*0150005401*	**1.5 bar** 21.75 psi	**1**	**1**	**1**

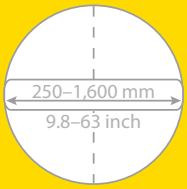
Additional accessories as an option

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

Cone Bags	Pipe diameter *mm/inch*	Length *mm/inch*	Air requirement approx. *litre/cu. ft.*	Weight approx. *kg/lbs*
KK 250–600 *1420005600*	250–600 *9.8–23.6*	1,050 *41.3*	433.5 *15.31*	4,1 *9.04*
KK 400–1.000 *1420005700*	400–1,000 *15.7–39.4*	1,900 *74.8*	2,071.2 *73.14*	10 *22.05*
KK 600–1.600 *1420005000*	600–1,600 *23.6–63*	3,180 *125.2*	8,429.5 *297.69*	24 *52.92*

Cone Bags:

Operating pressure: 1 bar (14.5 psi)

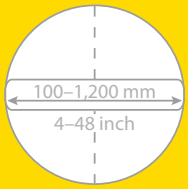
Counterpressure: max. 0.5 bar (7.25 psi)



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.







Correponding 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 *mm/inch*	Diameter *mm/inch*	Cylinder length *mm/inch*	Total lenght *mm/inch*	Air requirement approx. *litre/cu. ft.*	Weight approx. *kg/lbs*
PDK 10/20 PE-core *1481004401 1 x 2 1/2" OT*	100–200 *4–8*	97 *3.9*	485 *19.1*	635 *25.0*	27 *0.95*	2.2 *4.9*
PDK 20/50 PE-core *1481005001 1 x 4" OT*	200–500 *8–20*	195 *7.7*	550 *21.7*	700* *27.6**	143 *5.0*	7 *15.4*
PDK 50/120 PE-core *1481008000 1 x 4" OT*	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

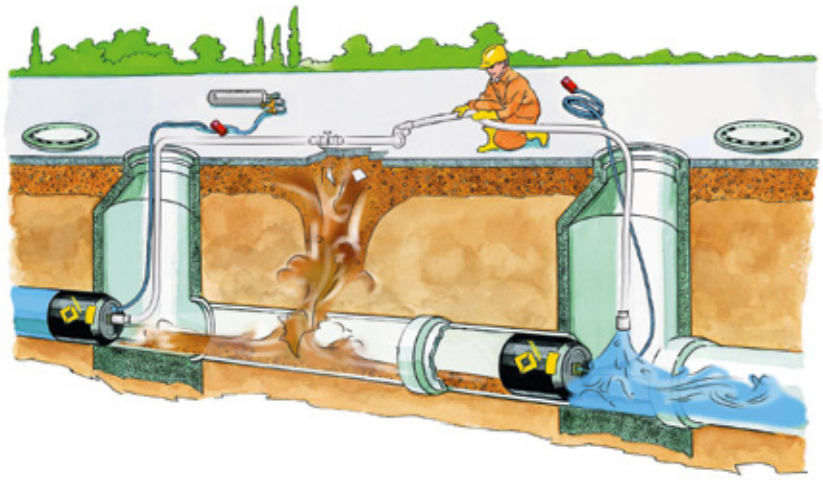


For sizes PDK 10/20 and PDK 20/50, the bypass adapters are fastened to the PE core with screws.

PDK 50/120



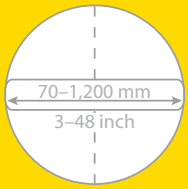
The bypass bag PDK 50/120 have the feedthroughs (also with external thread) directly in the PE core.



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 lenght *mm/inch*	Total lenght *mm/inch*	Air requirement approx. *litre/cu. ft.*	Weight approx. *kg/lbs*
RDK 7/15 *1440008100*	**2.5 bar 36.25 psi**	70–150 *3–6*	68 *2.7*	300 *11.8*	345 *13.4*	14 *0.5*	0.6 *1.3*
RDK 10/20 *1440024300*	**2.5 bar 36.25 psi**	100–200 *3.9–7.9*	90 *3.5*	250 *9.84*	295 *11.61*	25 *0.9*	1.1 *2.4*
RDK 15/30 *1440008000*	**2.5 bar 36.25 psi**	150–300 *6–12*	145 *5.7*	350 *13.78*	395 *15.55*	80 *2.8*	2.5 *5.5*
RDK 20/40 *1440027100*	**2.5 bar 36.25 psi**	200–400 *7.9–15.7*	195 *7.7*	650 *25.6*	700 *27.6*	224 *8.8*	3.4 *7.5*
RDK 30/60 *1440007900*	**2.5 bar 36.25 psi**	300–600 *12–24*	295 *11.6*	735 *29*	780 *30.4*	508 *18*	7.3 *16.1*
RDK 60/120 *1480004800*	**1.5 bar 21.75 psi**	600–1,200 *24–48*	580 *22.8*	1,320 *52*	1,365 *53.7*	2,475 *87.4*	27 *59.6*

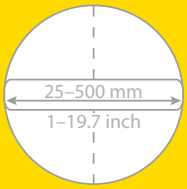
Additional sizes can be supplied on request.



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

Lateral packers / Extended range packers

The intelligent solution that saves money



- **High flexibility**
- **Robust cone heads**

Vetter 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.

Key Features Lateral Packers:

- Ideal for lateral pipe spot/point repairs
- Suitable for narrow, confined, or tight access pipelines
- Reusable with appropriate protective sheeting
- Ensures consistent and reliable resin patching in small diameter pipes

Key Features Extended Range Packers:

- Enables multiple pipe repairs with a single packer
- Ideal for spot and point repair in varied diameter pipelines
- Reusable with protective foil or sheeting
- Reduces equipment load and repair costs for contractor



Sturdy spherical heads

Technical data

Lateral packers		Pipe diameter *mm/inch*	Diameter *mm/inch*	Cylinder lenght *mm/inch*	Total lenght *mm/inch*	Repair length in largest diameter *mm/inch*	Repair length in smallest diameter *mm/inch*	Air requirement approx. *litre/cu. ft.*	Weight approx. *kg/lbs*
25/35 *1492002200*	**3 bar** **43.5 psi**	25–35 *1–1.4*	18 *0.7*	600 *23.6*	690 *27.2*	400 *15.7*	500 *19.7*	0.8 *0.03*	0.1 *0.22*
25/35 *1492002300*	**3 bar** **43.5 psi**	25–35 *1–1.4*	18 *0.7*	1,000 *39.4*	1,090 *42.9*	800 *31.5*	900 *35.4*	1.3 *0.05*	0.15 *0.33*
25/35 *1492002400*	**3 bar** **43.5 psi**	25–35 *1–1.4*	18 *0.7*	1,500 *59.1*	1,590 *62.6*	1,300 *51.2*	1,400 *55.1*	2.1 *0.07*	0.2 0.44
35/50 *1492002500*	**3 bar** **43.5 psi**	35–50 *1.4–2.0*	25 *1*	600 *23.6*	680 *26.8*	380 *15*	520 *20.5*	1.6 *0.06*	0.3 *0.66*
35/50 *1492002600*	**3 bar** **43.5 psi**	35–50 *1.4–2.0*	25 *1*	1,000 *39.4*	1,080 *42.5*	780 *30.7*	920 *36.2*	2.6 *0.09*	0.4 *0.88*
35/50 *1492002700*	**3 bar** **43.5 psi**	35–50 *1.4–2.0*	25 *1*	1,500 *59.1*	1,580 *62.2*	1,280 *50.4*	1,420 *55.9*	4 *0.14*	0.5 *1.1*
Extended Range Packer									
100/250 *1492003400*	**3 bar** **43.5 psi**	100–250 *3.9–9.8*	75 *3*	1,000 *39.4*	1,230 *48.4*	570 *22.4*	710 *28*	63 *2.22*	2.5 *5.51*
100/250 *1492003500*	**3 bar** **43.5 psi**	100–250 *3.9–9.8*	75 *3*	1,500 *59.1*	1,730 *68.1*	1,070 *42.1*	1,210 *47.6*	94 *3.32*	3.4 *7.5*
100/250 *1492003600*	**3 bar** **43.5 psi**	100–250 *3.9–9.8*	75 *3*	2,000 *78.7*	2,230 *87.8*	1,570 *61.8*	1,710 *67.3*	125 *4.41*	3.6 *7.94*
50/150 *1492002800*	**3.5 bar** **40.76 psi**	50–150 *2–5.9*	45 *1.8*	1,000 *39.4*	1,170 *46.1*	710 *28*	790 *31.1*	23 *0.81*	1.5 *3.31*
50/150 *1492002900*	**3.5 bar** **40.76 psi**	50–150 *2–5.9*	45 *1.8*	1,500 *59.1*	1,670 *65.7*	1,210 *47.6*	1,290 *50.8*	35 *1.24*	2.2 *4.85*
50/150 *1492003000*	**3.5 bar** **40.76 psi**	50–150 *2–5.9*	45 *1.8*	2,000 *78.7*	2,170 *85.4*	1,710 *67.3*	1,790 *70.5*	45 *1.59*	2.7 *5.95*
70/200 *1492003100*	**3.5 bar** **40.76 psi**	70–200 *2.8–7.9*	58 *2.3*	1,000 *39.4*	1,200 *47.2*	620 *24.4*	720 *28.3*	38 *1.34*	1.8 *3.97*
70/200 *1492003200*	**3.5 bar** **40.76 psi**	70–200 *2.8–7.9*	58 *2.3*	1,500 *59.1*	1,700 *66.9*	1,120 *44.1*	1,220 *48*	57 *2.01*	2.4 *5.29*
70/200 *1492003300*	**3.5 bar** **40.76 psi**	70–200 *2.8–7.9*	58 *2.3*	2,000 *78.7*	2,200 *86.6*	1,620 *63.8*	1,720 *67.7*	76 *2.68*	3.2 *7.06*
150/300 *1492003700*	**2 bar** **29 psi**	150–300 *5.9–11.8*	120 *4.7*	1,000 *39.4*	1,300 *51.2*	570 *22.4*	770 *30.3*	75 *2.65*	6.1 *13.45*
150/300 *1492003800*	**2 bar** **29 psi**	150–300 *5.9–11.8*	120 *4.7*	1,500 *59.1*	1,800 *70.9*	1,070 *42.1*	1,270 *50*	115 *4.06*	8 *17.64*
150/300 *1492003900*	**2 bar** **29 psi**	150–300 *5.9–11.8*	120 *4.7*	2,000 *78.7*	2,300 *90.6*	1,570 *61.8*	1,770 *69.7*	154 *5.44*	12.5 *27.56*
200/500 *1492004000*	**2 bar** **29 psi**	200–500 *7.9–19.7*	195 *7.7*	1,500 *59.1*	1,780 *70.1*	800 *31.5*	1,020 *40.2*	580 *20.48*	16 *35.28*
200/500 *1492004100*	**2 bar** **29 psi**	200–500 *7.9–19.7*	195 *7.7*	2,000 *78.7*	2,280 *89.8*	1,300 *51.2*	1,520 *59.8*	690 *24.37*	19 *41.90*

Bendy packers

Bendy packers are designed for resin based patching and spot repairs in curved, misaligned, or tight-access pipe sections, capable of navigating bends of up to 90°.
These no-dig repair solutions are ideal for restoring the integrity of pipelines without the need for excavation, particularly in sections where traditional packers cannot conform to the required shape.

Key Features:

- Suitable for bends and offsets up to 90°
- Pipe diameter range: 30–50 mm to 170–220 mm
- Operating pressure: 3 bar
- Standard length: 1250 mm
- Made from special bendable rubber with embedded fabric
- Smooth-surfaced for uniform, swell-free repairs
- Enables trenchless, no-dig patch repair in curved and misaligned pipe sections
- Reusable with protective foil or sheeting

Top problems our products solve Bendy Packers:

- Repairs in curved or offset pipe sections up to 90°
- Avoiding excavation in tight, angled locations
- Quick deployment in space-restricted environments
- Saves money compared to digging



Technical data

Bendy packer *3 bar/43.5 psi*	**Pipe Diameter** *mm/inch*	**Diameter** *mm/inch*	**Cylinder length** *mm/inch*	**Total length** *mm/inch*	**Repair length in largest diameter** *mm/inch*	**Air requirement approx.** *litres/cu. ft.*	**Weight approx.** *kg/lbs*
Type 30/50 *1492001500*	30–50 *1.2–2.0*	24 *0.9*	1,250 *49.2*	1,350 *53.1*	1,110 *43.7*	3.2 *0.11*	0.3 *0.66*
Type 50/70 *1492001600*	50–70 *2.0–2.8*	35 *1.4*	1,250 *49.2*	1,350 *53.1*	930 *36.6*	7 *0.25*	0.6 *1.32*
Type 70/100 *1492001700*	70–100 *2.8–3.9*	55 *2.2*	1,250 *49.2*	1,350 *53.1*	930 *36.6*	16 *0.57*	1.6 *3.53*
Type 100/125 *1492001800*	100–125 *3.9–4.9*	55 *2.2*	1,250 *49.2*	1,350 *53.1*	930 *36.6*	23 *0.81*	2.1 *4.63*
Type 125/150 *1492001900*	125–150 *4.9–5.9*	74 *2.9*	1,250 *49.2*	1,350 *53.1*	930 *36.6*	31 *1.09*	2.4 *5.29*
Type 150/165 *1492002000*	150–165 *5.9–6.5*	74 *2.9*	1,250 *49.2*	1,350 *53.1*	930 *36.6*	34 *1.20*	4 *8.82*
Type 170/220 *1492002100*	170–220 *6.7–8.7*	90 *3.5*	1,250 *49.2*	1,400 *55.1*	930 *36.6*	42 *1.48*	9.5 *20.95*

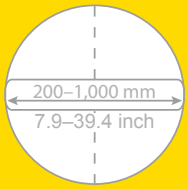




Flexible packers

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

Up to Type 300-400: Bypass Ø 2"
From Type 400-600 on: Bypass Ø 3"

Flexpacker with wheelset	Operating pressure	Pipe Diameter *mm/inch*	Diameter *mm/inch*	Cylinder length *mm/inch*	Total length *mm/inch*	Repair length in largest diameter *mm/inch*	Repair length in smallest diameter *mm/inch*	Weight approx. *kg/lbs*
Type 200–300 *1491044801*	**1.5 bar** **21.75 psi**	200–300 *7.9–11.8*	170 *6.7*	1,000 *39.4*	1,130 *44.5*	590 *23.2*	690 *27.2*	8.8 *19.40*
Type 200–300 *1491066500*	**1.5 bar** **21.75 psi**	200–300 *7.9–11.8*	170 *6.7*	1,500 *59.1*	1,630 *64.2*	1,090 *42.9*	1,190 *46.9*	12.5 *27.56*
Type 200–300 *1491046301*	**1.5 bar** **21.75 psi**	200–300 *7.9–11.8*	170 *6.7*	2,000 *78.7*	2,130 *83.9*	1,590 *62.6*	1,690 *66.5*	15 *33.08*
Type 200–300 *1491066600*	**1.5 bar** **21.75 psi**	200–300 *7.9–11.8*	170 *6.7*	2,500 *98.4*	2,630 *103.5*	2,090 *82.3*	2,190 *86.2*	17.5 *38.59*
Type 200–300 *1491046401*	**1.5 bar** **21.75 psi**	200–300 *7.9–11.8*	170 *6.7*	3,000 *118.1*	3,130 *123.2*	2,590 *102*	2,690 *105.9*	20 *44.1*
Type 300–400 *1491044901*	**1.5 bar** **21.75 psi**	300–400 *11.8–15.7*	230 *9.1*	1,000 *39.4*	1,170 *46.1*	560 *22*	660 *26*	12.8 *28.22*
Type 300–400 *1491066700*	**1.5 bar** **21.75 psi**	300–400 *11.8–15.7*	230 *9.1*	1,500 *59.1*	1,670 *65.7*	1,060 *41.7*	1,160 *45.7*	16.5 *36.38*
Type 300–400 *1491046601*	**1.5 bar** **21.75 psi**	300–400 *11.8–15.7*	230 *9.1*	2,000 *78.7*	2,170 *85.4*	1,560 *61.4*	1,660 *65.4*	19.4 *42.78*
Type 300–400 *1491066800*	**1.5 bar** **21.75 psi**	300–400 *11.8–15.7*	230 *9.1*	2,500 *98.4*	2,670 *105.1*	2,060 *81.1*	2,160 *85*	23 *50.72*
Type 300–400 *1491046701*	**1.5 bar** **21.75 psi**	300–400 *11.8–15.7*	230 *9.1*	3,000 *118.1*	3,170 *124.8*	2,560 *100.8*	2,660 *104.7*	26 *57.33*
Type 400–600 *1491045701*	**1.5 bar** **21.75 psi**	400–600 *15.7–23.6*	350 *13.8*	1,500 *59.1*	1,670 *65.7*	980 *38.6*	1,240 *48.8*	26 *57.33*
Type 400–600 *1491059500*	**1.5 bar** **21.75 psi**	400–600 *15.7–23.6*	350 *13.8*	2,000 *78.7*	2,170 *85.4*	1,400 *55.1*	1,450 *57.1*	29 *63.95*
Type 600–800 *1491059001*	**1 bar** **14.5 psi**	600–800 *23.6–31.5*	400 *15.7*	1,500 *59.1*	1,670 *65.7*	700 *27.6*	900 *35.4*	29 *63.95*
Type 800–1,000 *1491058601*	**1 bar** **14.5 psi**	800–1,000 *31.5–39.4*	550 *21.7*	1,500 *59.1*	1,670 *65.7*	520 *20.5*	760 *29.9*	50 *110.25*

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
4" IT 1492005500



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

- A-fixed coupling

4" IT 1700009001

Blind coupling

- Blind coupling with chain, Size D

1700016200

- Blind coupling with chain, Size C

1700016600



- Blind coupling with chain, Size A

1700012600

Blocking valve

- Size D

1700013200



- Size C

1700007900



- Size A

1492005400

Accessories – inflating the bag

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



Simple controller, 1.5 bar (21.75 psi)
- Fitting controller

0150005401



Inflation and safety hose, 1.5 bar (21.75 psi)
- Yellow
- 10 m (32 ft.)

0150005500



2 bar (29 psi)

Inflation hose, 2 bar (29 psi)
- Yellow

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



Simple controller, 2 bar (29 psi)
- Fitting controller

1492005100



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



Inflation and safety hose, 2.5 bar (36.25 psi)
- Yellow
- 10 m (32 ft.)

0250005800



Simple controller, 2.5 bar (36.25 psi)
- Fitting controller

0250005701



Foot pump 2.5 bar (36.25 psi)
- with safety valve

0250005300



Accessories – inflating the bag

3 bar (43.51 psi)

Inflation hose, 3 bar (43.51 psi)
- Yellow

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



Simple controller, 3 bar (43.51 psi)
- Fitting controller

1492005200



3.5 bar (50.8 psi)

Inflation hose, 3.5 bar (50.8 psi)
- Yellow

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



Simple controller, 3.5 bar (50.8 psi)
- Fitting controller

1492005300



Cone bag accessories

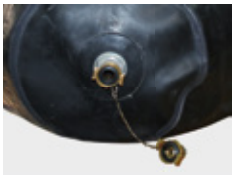
Inflation hose, 1 bar (14.5 psi)
- Yellow

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



Adaptor claw to quick-action coupling

1420005800



Single controller, 1 bar (14.5 psi)
- Fitting controller

0100005600



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



Adapter

- for portable compressor/permanent compressed air network

1600008200



Tyre valve

1600008000



Hand air pump

- 520 ccm/lift

1600008700



Foot pump

- 420 ccm/lift

1600009400



Adapter

- for construction compressors

1600012000



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 resis-tance	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 High Pressure Pipe Sealing Bags Test Sealing Bags for Gullies Protection Sleeve Lateral packers Flexible packers	–40 °C	–20 °C	+90 °C	+115 °C
Pipe Sealing Bags 0.5 bar (7.25 psi) Test Sealing Bags 0.5 bar (7.25 psi) Cone Bags 1 bar (14.5 psi)	–40 °C –30 °C –20 °C	–20 °C -- --	+50 °C +70 °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 Lateral packers Flexible packers	NR	Nylon cord
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) Test Sealing Bags 2.5 bar (36.25 psi) Bypass Bags 1.5 bar (21.75 psi)	NR	Nylon cord/Aramide
Pipe Sealing Bags 0.5 bar (7.25 psi) Test Sealing Bags 0.5 bar (7.25 psi)	CR/NR	Nylon cord/Aramide
Pipe Sealing Bags CR Cone Bags 1 bar (14.5 psi) Test Sealing Bags for Gullies	CR	Nylon cord
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)	–	–	–
Butytric 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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