

VETTER SEALING BAGS

2.5 bar (36.25 psi)

(TYPE 80/140 (32/54); 1.0 bar (14.5 psi))



These bags are ideal for running leakproof tests with reduced bracing on water mains, at a backpressure of 0.5 bar (7.25 psi) or 1.0 bar (14.5 psi). Should toxic gases or liquids seep

after accidents into sewer pipes with steep gradients, the 2.5 bar (36.25 psi) bags effectively plug the sewers, sealing pollutants inside the pipe, in a matter of seconds.

Users can select the maximum operating pressure - either at 1.0, 1.5, 2.0 or 2.5 bar (14.5, 21.75, 29.2 or 36.25 psi) to suit on-site requirements, and the conditions encountered in the mains.

APPLICATIONS:

Sealing gullies and sewer pipes after accidents with hazardous materials, after pipe breakages and flooding, during inspections and maintenance,

Preventing groundwater pollution

Damming environmentally dangerous liquids for subsequent safe disposal

Damming and controlled drainage of hazardous liquids

Sealing filler pipes on road and rail tankers

Damming fire-extinguishing water

Setting-up pump sumps

Leakproof-testing of newly laid or repaired sewer pipes with water pressure to DIN 4033 (which stipulates water-pressure tests at 0.5 bar (7.25 psi) (5mWS/ 15 ft. water head pressure) to assess leakage loss)

Leakproof-testing also with compressed-air or vacuum

Diverting waste water around a pipe section during repairs

Repairing and checking pipe sections

Plugging a pipe-end to prevent backflow of waste water

Safety-first equipment for fire brigades, the chemical industry, construction companies, refineries

SIZES:

8 sizes for pipe diameters from 2.5 to 140 cm (1 to 54 in.)

ADVANTAGES:

The higher operating pressure of 2.5 bar (36.25 psi) squeezes the bag more tightly in-place inside the pipe, making it more resistant to back-pressure

Useful in sewer pipes with a steep gradient or with internal pressures of up to 1.0 bar (14.5 psi)

Test Bags type PDK 12.5/25 (FT 5/10) and 25/50 (FT 10/20) have a metal core vulcanized inside their outer casing

Suitable for water-pressure, compressed-air and vacuum tests

Fast sealing of drains and gullies to prevent inflow of toxic liquids, or outflow of polluting liquids and vapours

Thanks to optimum expandability and design, only four Sealing Bags are required to plug even non-standard round pipe diameters from 12.5 to 140 cm (5 to 54 in.)

Sealing Bags 2.5 bar (36.25 psi) withstand backpressure of at least 10 m WS/32.8 ft. water head pressure in sewers and gullies

Prevent untreated sewage seeping into the ground and polluting groundwater

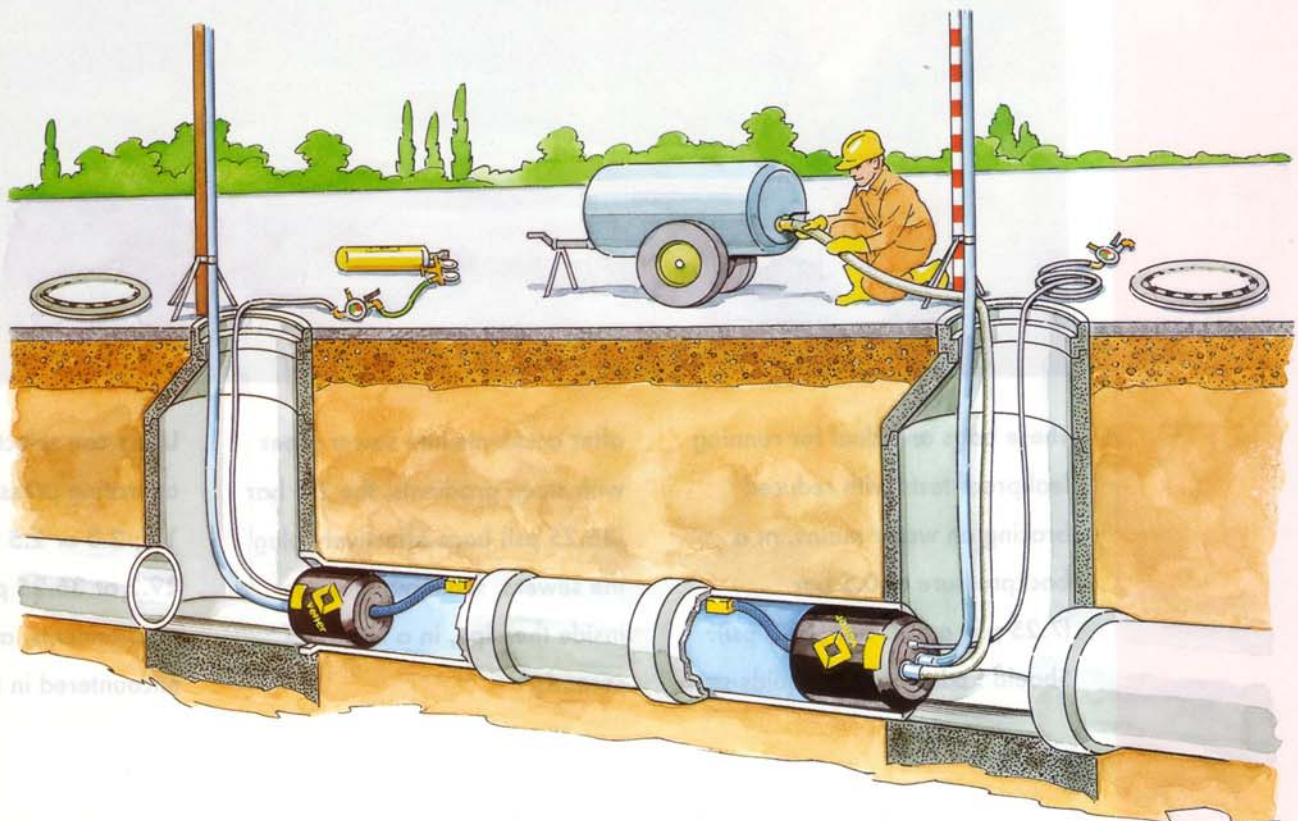
Simple and reliable in use, long life and economical

Withstand backpressure of at least 1.0 bar (14.5 psi) in each maximum permissible pipe diameter

Flow-through testing Bags with floating bleeder hose

Crease-free, unlike glued bags, and dense sealing surfaces, no diffusion and no leakage at joints

The bags can be repaired, provided their reinforcement is undamaged - though repairs may change their elasticity and leak resistance





gauge and shut-off unit to prevent inadvertent over-inflation

Optimum operating safety through large contact surface even in the largest pipe diameters, through optimum design of bag surface and high 2.5 bar (36.25 psi) working pressure

MATERIAL: A

Robust rubber material

Resistant to most chemicals (Consult list)

Heat-resistant to 90°C/194°F (short term) and 85°C/185°F (long term)

Highly elastic - up to 100 %

Multi-layer construction with fabric reinforcement

Fabric reinforcement permits expansion of bag diameter but not bag length

AIR SOURCES:

Compressed-air cylinders 200 or 300 bar (3,000 or 4,500 psi)

Compressed-air mains

Truck tyre inflator

Hand and foot pump

Compressor

SAFETY:

The operating pressure of 2.5 bar (36.25 psi) and the strong pressure from the bags gives them a firmer fit inside the pipes, reducing the risk of their shooting out.

The cylindrical shape of the Test Bags with an inner pipe but without a core prevents the bag being inadvertently turned.

Labelled with brief operating instructions

All bags are tested at 1.3 times their maximum allowable working pressure

Backpressure-tested, with ample reserves, at 0.5 bar (7.25 psi)

Controller can be positioned at a safe distance of at least 10 m (32.8 ft.) - well away from hazardous materials

The bags can be deflated outside sewer networks from a distance of at least 10 m (32.8 ft.)

Single fitting controller 2.5 bar (36.25 psi) or 1.0 bar (14.5 psi) with 1 safety valve, 1 pressure

ACCESSORIES:

Pressure regulator 200/300 bar (3,000/4,500 psi) with finger-tight connector

Dual connector 200 bar (3,000 psi)

Dual connector 300 bar (4,500 psi)

Dual fitting controller 2.5 bar (36.25 psi)
(Type 80/140 (32/54) - 1.0 bar (14.5 psi))

Single fitting controller 2.5 bar (36.25 psi)

Inflation hose 10 m (32.8 ft.), 10 mm (0.4 in.) internal diameter

Inflation and safety hose 10 m (32.8 ft.), 19 mm (0.7 in.) diameter (for type 80/140 [32/54] - 1.0 bar [14.5 psi])

Universal connector kit

Vacuum adaptor 1.5 bar (21.75 psi)

Tethering line 5 m (16.4 ft.)

Test and measuring hose 6 m (19.6 ft.)

Shut-off unit Size C for testing watertightness



Leakproof water-pressure test
as specified in DIN 4033



Compressed-air test
according to EN 1610



Equipment for pipe diameters
from 12.5 to 25 cm (5 to 10 in.)

- 2 Basic Test Sealing Bags
Type PDK 12.5/25 (FT 5/10)
- 2 Test and measuring hoses,
6 m, 25 mm internal
diameter (19.6 ft./ 1 in.)
- 2 Inflation hoses 10 m (32.8 ft.),
blue
- 2 Single fitting controllers 2.5 bar
(36.25 psi)



Equipment for pipe diameters
from 25 to 50 cm (10 to 20 in.)

- 2 Basic Test Bags
Type PDK 25/50 (FT 10/20)
- 2 Test and measuring hoses,
6 m, 25 mm internal diameter
(19.6 ft./1 in.)
- 2 Shut-off units Size C
- 2 Inflation hoses 10 m (32.8 ft.),
blue
- 2 Single fitting controllers 2.5 bar
(36.25 psi),



Equipment for pipe diameters
from 50 to 80 cm (20 to 32 in.)

- 2 Test Sealing Bags with inner core
Type PDK 50/80 (FT 20/32)
- 2 Test and measuring hoses,
6 m, 50 mm internal
diameter (19.6 ft./2 in.)
- 2 Shut-off units Size C
- 2 Inflation hoses 10 m (32.8 ft.),
blue
- 2 Single fitting controllers 2.5 bar
(36.25 psi),



Equipment for pipe diameters
from 80 to 140 cm

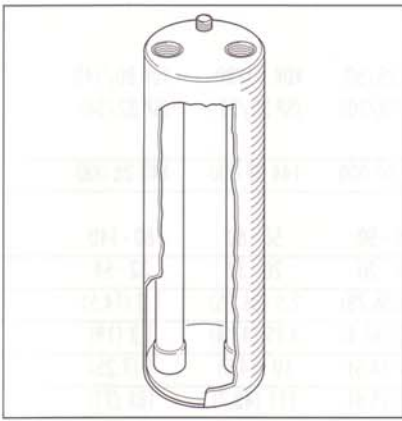
- 2 Test Sealing Bags
Typ PDK 80/140 (FT 32/54)
1.0 bar (14.5 psi)
- 2 Test and measuring hoses, 6 m,
50 mm internal diameter
- 2 Shut-off units size C
- 4 Inflation hoses 10 m, yellow
- 2 Single safety controllers, 1.0 bar,
Fitting construction



Equipment for pipe diameters
from 12.5 to 25 cm (5 to 10 in.)

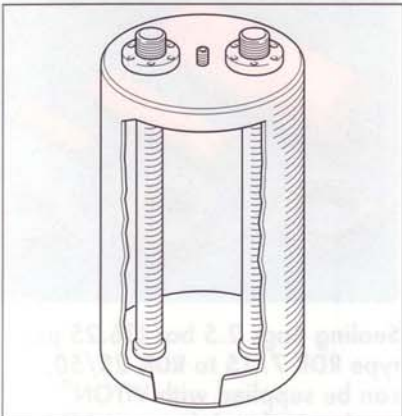
- 1 Test Sealing Bag
Type PDK 12.5/25 (FT 5/10)
- 1 Adaptor D Storz coupling
with claw coupling
- 1 Coupling for measuring hose
- 1 Single fitting controller 0.3 bar
(4.4 psi) (to fill the pipe)
- 1 Inflation hose 5 m long, 19 mm
internal dia.(16.4 ft./0.7 in.),
with claw coupling (to fill the pipe)
- 1 Measuring hose 0.3 bar
(4.4 psi), 10 m (32.8 ft.) long,
with nipple and pressure gauge
(for pressure test on pipe)
- 1 Sealing Bag Type RDK 12.5/25
(SP 5/10)
- 2 Inflation hoses 10 m (32.8 ft.), blue
- 1 Single fitting controller 2.5 bar
(36.25 psi), (to inflate the bags)





Equipment for pipe diameters from 25 to 50 cm (10 to 20 in.)

- 1 Test Sealing Bag Type PDK 25/50 (FT 10/20)
- 1 C Storz coupling with claw coupling
- 1 C Storz coupling with quick-action coupling
- 1 Single controller 0.3 bar (4.4 psi) Fitting construction with claw coupling (to fill the pipe)
- 1 Inflation hose 5 m long, 19 mm internal dia. (16.4 ft./0.7 in.), with claw coupling (to fill the pipe)
- 1 Measuring hose 0.3 bar (4.4 psi), 10 m (32.8 ft.) long, with nipple and pressure gauge (for pressure test on pipe)
- 1 Sealing Bag Type RDK 25/50 (SP 10/20)
- 2 Inflation hoses 10 m (32.8 ft.), grey
- 1 Single fitting controllers 2.5 bar (36.25 psi), (to inflate the bags)



Equipment for pipe diameters from 50 to 80 cm (20 to 32 in.)

- 1 Test Sealing Bag Type PDK 50/80 (FT 20/32)
- 1 C Storz coupling with claw coupling
- 1 C Storz coupling with quick action coupling
- 1 Single controller 0.3 bar (4.4 psi), Fitting construction with claw coupling (to fill the pipe)
- 1 Inflation hose 5 m (16.4 ft.) long, 19 mm (0.7 in.) internal dia., with claw coupling (to fill the pipe)
- 1 Measuring hose 0.3 bar (4.4 psi), 10 m (32.8 ft.) long, with nipple and pressure gauge (for pressure test on pipe)
- 1 Sealing Bag Type RDK 50/80 (SP 20/32)
- 3 Inflation hose 10 m (32.8 ft.), grey
- 1 Dual fitting controller 2.5 bar (36.25 psi), (to inflate the bags)



Equipment for pipe diameters from 80 to 140 cm (32 to 54 in.)

- 1 Test Sealing Bag Type PDK 80/140 (FT 32/54) (1.0 bar [14.5 psi])
- 1 C Storz coupling with claw coupling
- 1 C Storz coupling with quick-action coupling
- 1 Single controller 0.3 bar (4.4 psi), Fitting construction with claw coupling (to fill the pipe)
- 1 Inflation hose 5 m (16.4 ft.) long, 19 mm (0.7 in.) internal dia., with claw coupling (to fill the pipe)
- 1 Measuring hose 0.3 bar (4.4 psi), 10 m (32.8 ft.) long with nipple and pressure gauge (for pressure test on pipe)
- 1 Sealing Bag Type RDK 80/140 (SP 32/54) (1 bar [14.5 psi])
- 4 Inflation hose 10 m (32.8 ft.), yellow
- 2 Dual fitting controllers 1.0 bar (14.5 psi), (to inflate the bags)



TECHNISCHE DATEN:

Type (USA)		RDK 2.5/4 (SP 1/1.5)	RDK 4/7 (SP 1.5/3)	RDK 7/15 (SP 5)	RDK 12.5/25 (SP 5/10)	RDK 25/50 (SP 10/20)	RDK 50/80 (SP 20/32)	RDK 80/140 (SP 32/54)
Pipe Sealing Bags								
Art.-No.		144 02 000	144 03 000	144 04 000	144 05 000	144 07 000	144 09 000	148 28 000
Pipe diameter min.-max.	cm	2.5 - 4	4 - 7	7 - 15	12.5 - 25	25 - 50	50 - 80	80 - 140
	in	1 - 1.5	1.5 - 3	3 - 5	5 - 10	10 - 20	20 - 32	32 - 54
Working pressure max.	bar (psi)	2.5 (36.25)	2.5 (36.25)	2.5 (36.25)	2.5 (36.25)	2.5 (36.25)	2.5 (36.25)	1.0 (14.5)
Test pressure	bar (psi)	3.25 (47.4)	3.25 (47.4)	3.25 (47.4)	3.25 (47.4)	3.25 (47.4)	3.25 (47.4)	1.3 (19)
Backpressure	mWH (psi)	10 (14.5)	10 (14.5)	10 (14.5)	10 (14.5)	10 (14.5)	10 (14.5)	5 (7.25)
Cylinder length	cm (in.)	11.5 (4.6)	15.5 (6.1)	30 (11.8)	51 (20)	65 (25.6)	111 (43.7)	181 (71)
Total length	cm (in.)	17.5 (7)	21.5 (8.5)	35 (13.8)	57 (22.5)	71 (28)	117 (46)	186 (73)
Diameter	cm (in.)	2.1 (0.8)	3.7 (1.5)	6.8 (2.7)	11.5 (4.6)	24.5 (9.7)	45 (17.8)	78.5 (30.9)
Nominal content	l (cu. ft.)	0.2 (0.007)	0.7 (0.02)	4 (0.14)	20 (0.71)	95 (3.35)	446 (15.8)	1,250 (44)
Air requirement	l (cu. ft.)	0.14 (0.005)	2.45 (0.2)	14 (0.5)	70 (2.4)	332.5 (11.7)	1,560 (55)	4,375 (154)
Weight	kg (lbs)	0.15 (0.33)	0.2 (0.44)	0.55 (1.2)	1.5 (1.2)	4.5 (9.9)	17 (37)	41 (90)

Type (USA)		PDK 12,5/25 FT 5/10	PDK 25/50 FT 10/20	PDK 50/80 FT 20/32	PDK 80/140 FT 32/54
Test Sealing Bags					
Art.-No.		144 25 000	144 27 000	144 29 000	144 30 000
Pipe diameter min.-max.	cm	12.5 - 25	25 - 50	50 - 80	80 - 140
	in.	5 - 10	10 - 20	20 - 32	32 - 54
Working pressure max.	bar (psi)	2.5 (36.25)	2.5 (36.25)	2.5 (36.25)	1.0 (14.5)
Test pressure	bar (psi)	3.25 (47.4)	3.25 (47.4)	3.25 (47.4)	1.3 (19)
Backpressure	mWH (psi)	10 (14.5)	10 (14.5)	10 (14.5)	5 (7.25)
Cylinder length	cm (in.)	51 (20)	65 (25.6)	111 (43.7)	181 (71)
Total length	cm (in.)	58 (23)	74 (29)	118 (46)	193 (76)
Diameter	cm (in.)	11.5 (4.6)	24.5 (9.7)	45 (17.8)	78.5 (30.9)
Nominal content	l (cu. ft.)	18.5 (0.65)	93 (3.3)	436 (15.4)	1,230 (44)
Air requirement	l (cu. ft.)	64.8 (2.5)	326 (11.4)	1,526 (53.4)	4,305 (152)
Weight	kg (lbs)	3.6 (8)	9.9 (22)	36 (79)	69 (152)



Sealing Bags 2.5 bar (36.25 psi), type RDK 7/15 to RDK 25/50, can be supplied with VITON® coating and stainless steel fittings for the highest resistance to chemicals.

VITON® is a registered trademark of DuPont Dow Elastomers.

SPECIAL PRODUCTS:

For sewer pipe repairs, special products like casings or sleeves in all diameters and lengths are available.

