

PKS 800

WASTEWATER SUMPS

For MultiCut-Pumps

- . Mark of conformity
- . Suitable for traffic to class B 125
- . Corrosion resistant components
- . Patented security locking
- . Inlet designed for optimised flow
- . Smooth benched deposit free collection chamber
- . Coupling system with guide tube
- . Ball check valve with pump and pressure pipe is removable
- . Residual volume as of 36 litres



DISCRIPTION

The buoyancy proof sump is supplied as a complete prefabricated pump station for use in pressure drainage systems and as a sewage collection sump for use with gravity sewers. The sumps are equipped with one or two pumps. They are suitable for accessible areas (class A 15) or for traffic areas (class B 125).

Preformed transport eyelets / transport handles provide easy transport and placing into its final position.

A comprehensive range of pumps from the MultiCut sewage pump series 08/2 M to 45/2 M, with or without Ex rating together with control units which have been specially optimised for pressure drainage applications is available to ensure that the pump station meets the required discharge performance.

The buoyancy proof plastic sumps of high grade polyethylene are approved by the German Institute for Construction Engineering (DIBt) and are provided with inlet DN 150, port DN 100 for power cable and venting and a discharge branch DN 32.

The newly designed unique coupling system made of Polyphthalamide (PPA) is located above the water level. The stainless steel ball valve is provided with a safety locking device. The coupling valve can only be opened after closing the ball valve. A certified stainless steel chain and a guide tube facilitate the lifting of the pump or the coupling of the pump and coupling unit. This allows a maintenance of the ball check valve outside the sump.

Depending on the used extension it is possible to extend the sump to a total height of 2.75 metres. The required type of loading class depends on the site.

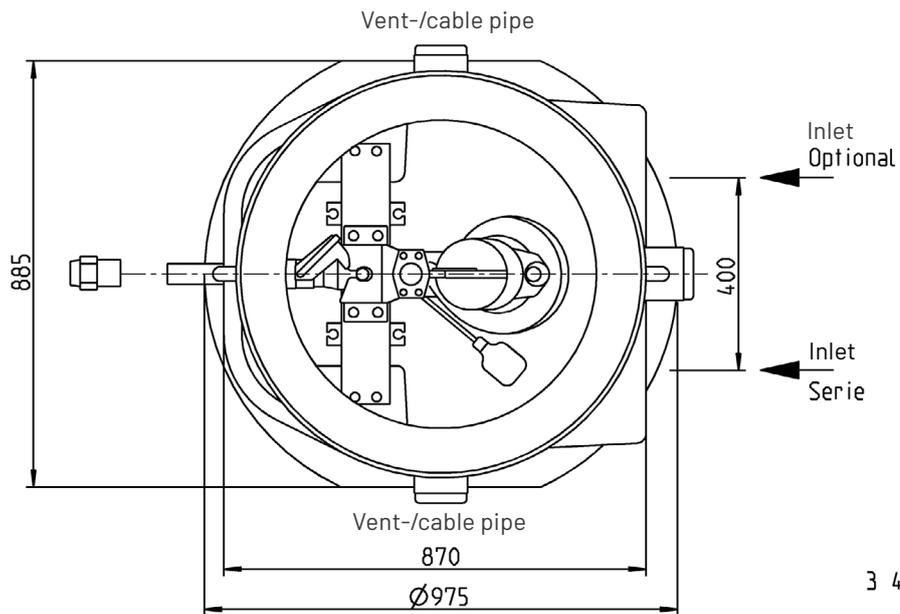
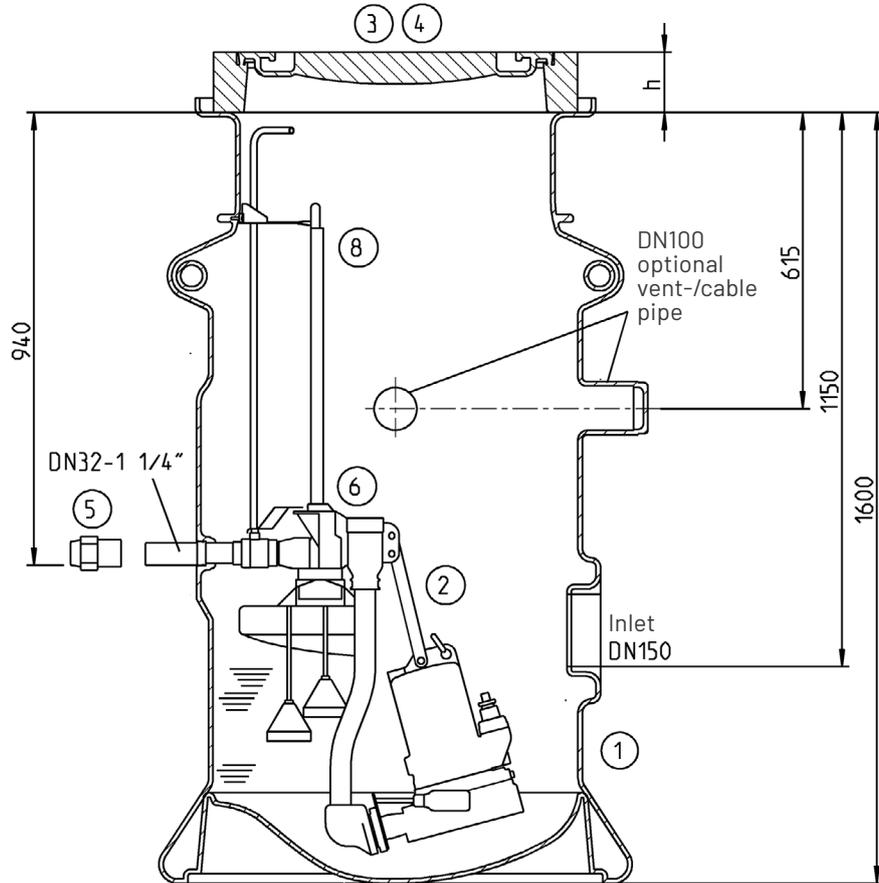
Single unit: The total volume is 640 litres. The storage volume up to the lower edge of the inlet is 145 litres and the residual volume is 36 litres.

Duplex unit: The total volume is 740 litres. The storage volume up to the lower edge of the inlet is 190 litres and the residual volume is 85 litres.

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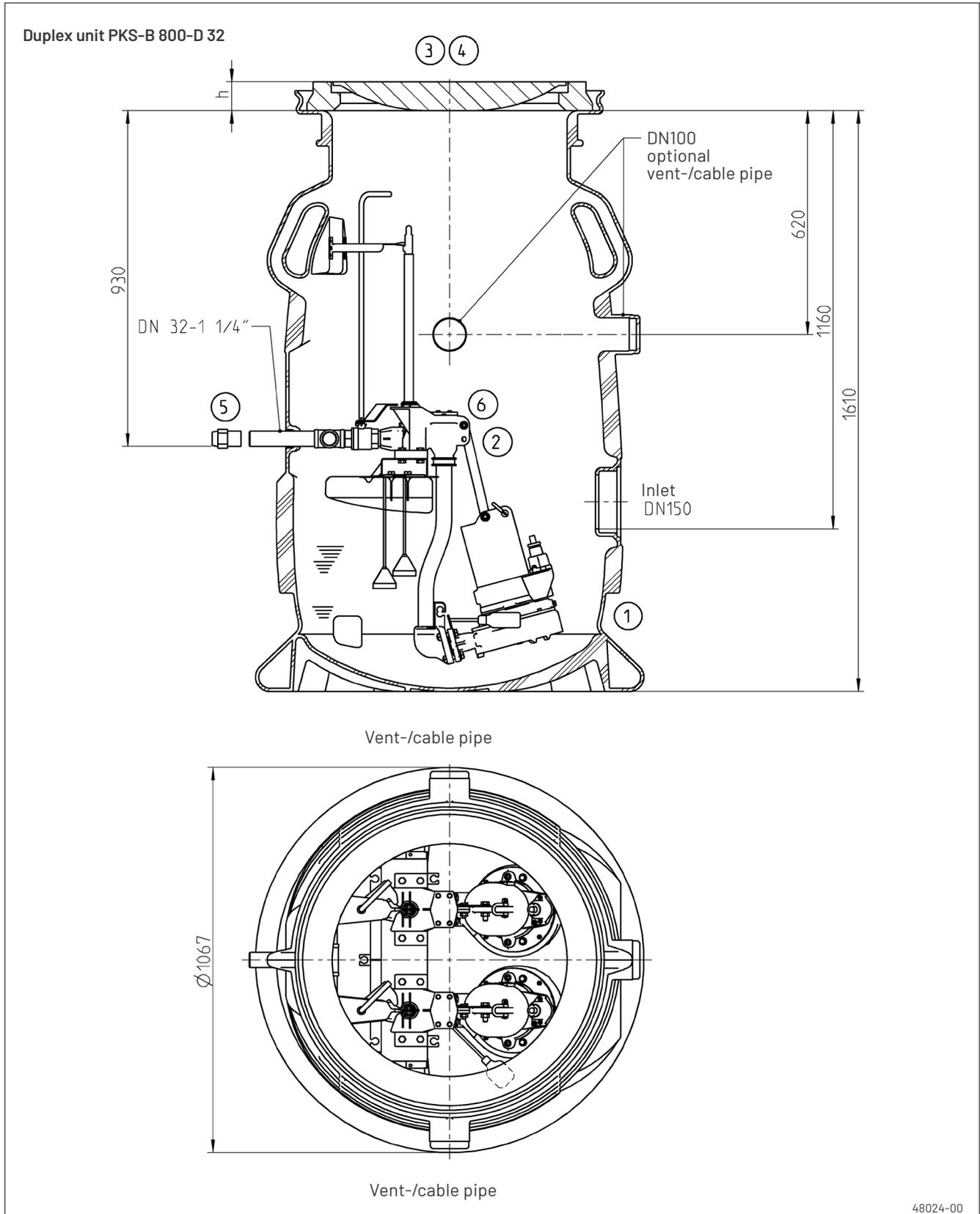
Single unit PKS-B 800-32



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Dimensions sump extensions

Single unit PKS-B 800-32

| Dimensions (without cover) mm | Height | Inlet | Pressure outlet | Buoyancy proof depth |
|-------------------------------|--------|-------|-----------------|----------------------|
| Sump | 1600 | 1150 | 940 | 1600 |
| Class A | | | | |
| Sump + 1 x PSV-A/B 375 | 1975 | 1525 | 1315 | 1975 |
| Sump + 1 x PSV-A 855 | 2455 | 2005 | 1795 | 2455 |
| Sump + 1 x PSV-A 1335 | 2935 | 2485 | 2275 | 2935 |
| Class B | | | | |
| Sump + 1 x PSV-A/B 375 | 1975 | 1525 | 1315 | 1975 |
| Sump + 2 x PSV-A/B 375 | 2360 | 1910 | 1700 | 2360 |
| Sump + 3 x PSV-A/B 375 | 2740 | 2290 | 2080 | 2740 |

| Volume | Sump | Extension | Switching point | | | |
|--------------|-------|-----------|-----------------|-------|-------|-------------------|
| | | | PSV | Off | On | Alarm / peak load |
| PKS-B 800-32 | 640 l | 159 l | 36 l | 110 l | 145 l | 145 l |

Duplex unit PKS-B 800-D 32

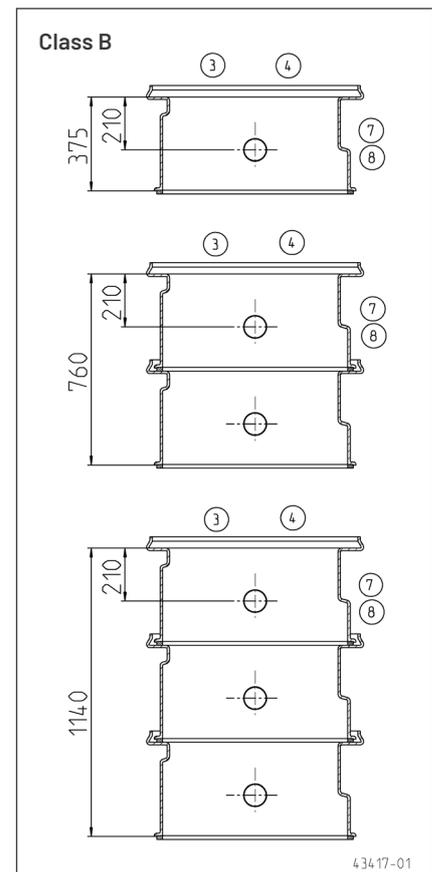
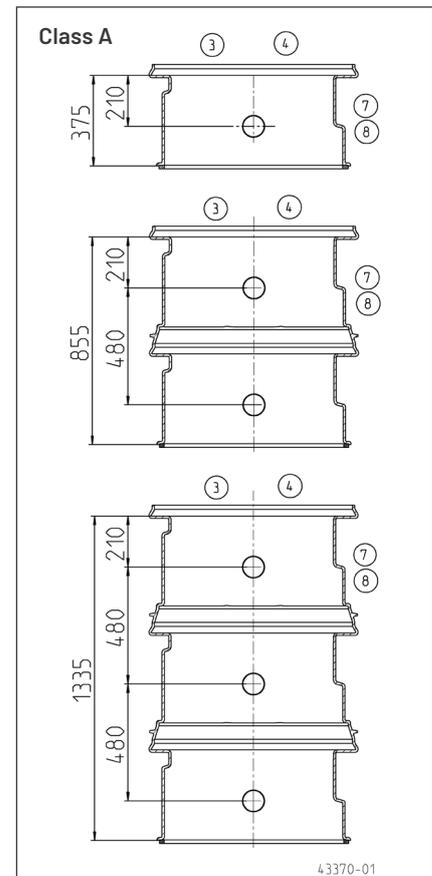
| Dimensions (without cover) mm | Height | Inlet | Pressure outlet | Buoyancy proof depth |
|-------------------------------|--------|-------|-----------------|----------------------|
| Sump | 1610 | 1160 | 930 | 1610 |
| Class A | | | | |
| Sump + 1 x PSV-A/B 375 | 1985 | 1535 | 1305 | 1985 |
| Sump + 1 x PSV-A 855 | 2465 | 2015 | 1785 | 2465 |
| Sump + 1 x PSV-A 1335 | 2945 | 2495 | 2265 | 2945 |
| Class B | | | | |
| Sump + 1 x PSV-A/B 375 | 1985 | 1535 | 1305 | 1985 |
| Sump + 2 x PSV-A/B 375 | 2370 | 1920 | 1690 | 2370 |
| Sump + 3 x PSV-A/B 375 | 2750 | 2300 | 2070 | 2750 |

| Volume | Sump | Extension | Switching point | | | |
|---------------|-------|-----------|-----------------|-------|-------|-------------------|
| | | | PSV | Off | On | Alarm / peak load |
| PKS-B 800-D32 | 740 l | 159 l | 85 l | 140 l | 190 l | 190 l |

PUMP TYPES FOR PKS 800

MultiCut-Pumps:

08/2 M, 08/2 ME, 20/2 M plus, 25/2 ME, 35/2 M, 36/2 M, 45/2 M



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SCOPE OF SUPPLY

PKS-B 800-32 (single unit)

Plastic sump, coupling system and guide tube, stainless steel ball valve with extension and security locking. Stainless steel discharge branch DN 32 with internal thread 1¼", 2 sleeves DN 150 (KG-pipe) for the inlet (one ready for connection) and 3 ports DN 100 (KG-pipe) for cable and venting.

PKS-D 800-D32 (duplex unit)

Plastic sump, coupling system and guide tube, 2 stainless steel ball valves with extension and security locking. Stainless steel discharge branch DN 32 with internal thread 1¼", 1 sleeve DN 150 (KG-pipe) for the inlet, 3 ports DN 100 (KG-pipe) for cable and venting.

PSV -Sump extension

Sump extension, sealing for neck of sump and 2 ports for cable and venting DN 100 (KG-pipe).

ACCESSORY

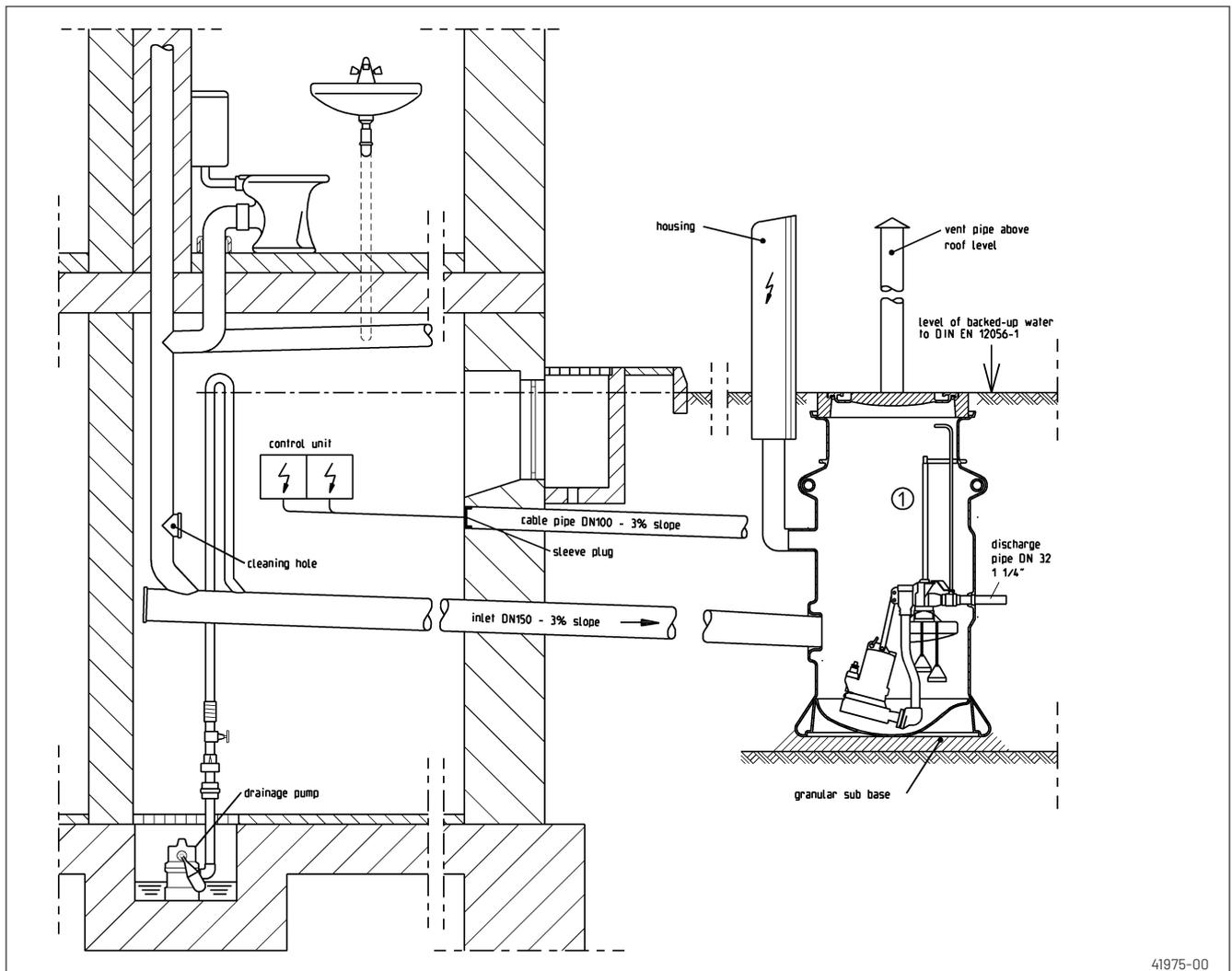
| Type | | Code-No. | Weight (kg) | |
|--|---|---------------------------------|-------------|-----|
| ① Poly-sump | PKS-B 800-32 | JP09475 | 78 | |
| | PKS-B 800-D32 | JP47345 | 80 | |
| | Second inlet (single unit) with sealing element DN 150 | JP42181 | | |
| ② Discharge pipe assembly-32 * | 08/2M Ex, 20/2M plus up to 45/2M, Ex | JP44855 | 8 | |
| | 08/2M | JP44857 | 8 | |
| ③ Cover cl. A | ∅ 600 cl. A 15, h= 80, D 785 | JP46437 | 90 | |
| | Lifting device for cl. A | JP44969 | | |
| | Cover cl. B without ventilation | ∅ 610 cl. B 125, h= 125, D 750 | JP44972 | 110 |
| ④ Concrete ring | 625 x 100 mm, ∅ 785 | JP44975 | 32 | |
| ⑤ Single ended quick release coupling with female thread and clamp | 1¼" to ∅ 40 mm (DN 32) | JP44796 | | |
| | 1¼" to ∅ 50 mm (DN 40) | JP44797 | | |
| | 1¼" to ∅ 63 mm (DN 50) | JP44798 | | |
| ⑥ DRS-connection ½" with cover | | JP42178 | | |
| | Breathing valve with cover | Further accessories on request. | JP42179 | |
| | DRS-connection + Breathing valve with cover | | JP42180 | |
| ⑦ Sump extension | PSV-A/B 375 | JP46429 | 25 | |
| | PSV-A 855 | JP46430 | 40 | |
| | PSV-A 1335 | JP46431 | 54 | |
| | Guide rail extension PKS-B -32 | single unit | JP46439 | |
| Guide rail extension PKS-B -D32 | double unit | JP48064 | | |
| ⑧ Operating handle T-Key (telescopic) * | for extension (incl. 1.5 m chain) | JP46438 | | |
| ⑨ Ventilation pipe | DN 100, stainless steel | JP44858 | | |

* incl. 2.5 m chain, if duplex unit order 2x

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INSTALLATION CHARACTERISTICS

The PKS-Sump complies with all the requirements of standards DIN EN 12056/752/476 and is supplied ready for installation and connecting up. It's low weight facilitates transport and installation. It can be installed and connected in a short time without the need of expensive construction machinery.

Checking and maintenance work on the valves can be easily carried out from above – without the need to enter the sump.

Important functional features have also been taken into consideration when designing the PKS sump: a smooth benched collection chamber without any septic zones, inlets DN 150 orientated in the flow direction and a pressure tight discharge connection which is water tight resistant to any longitudinal stresses.