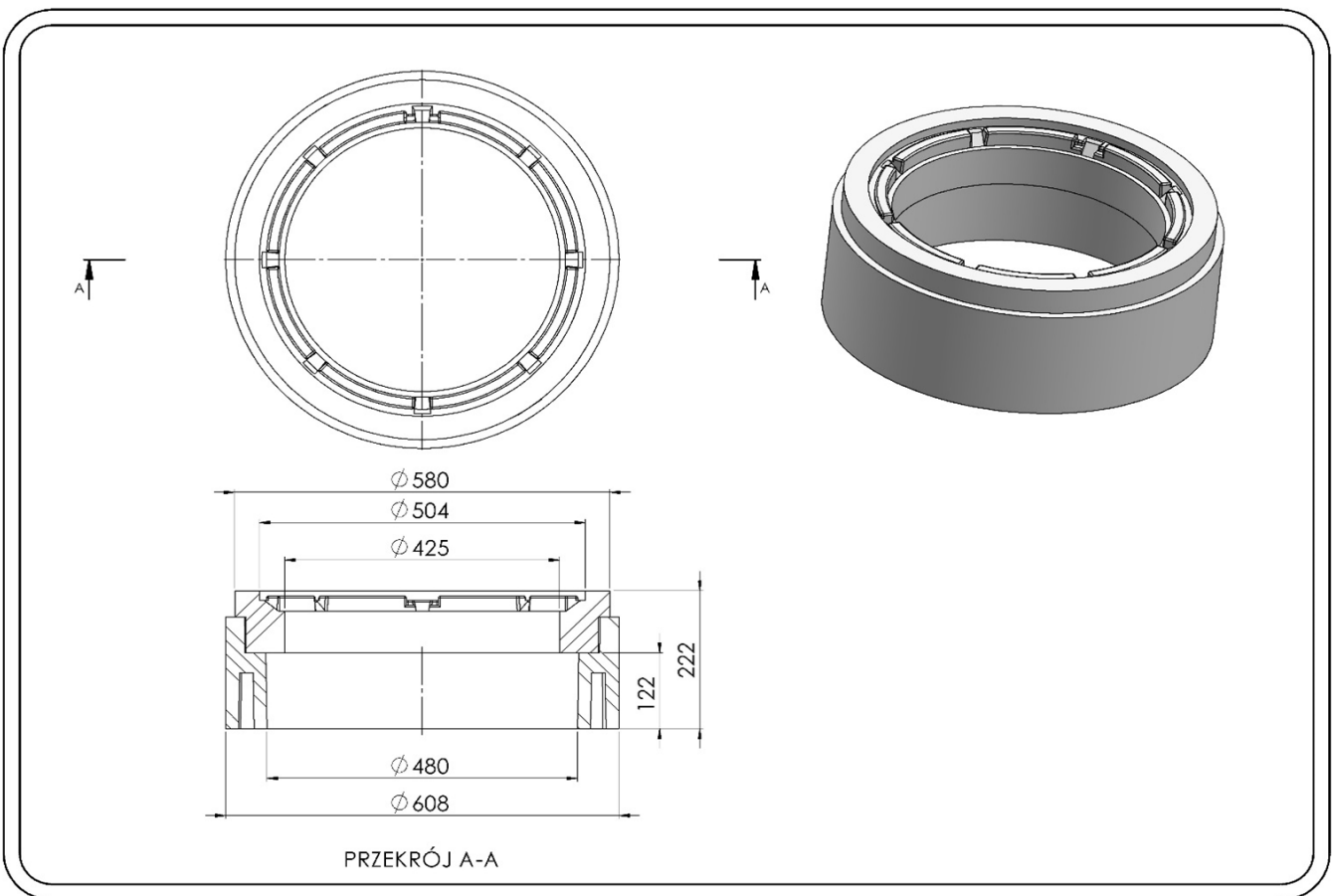


An adapter supporting the TXP /480/425/230 telescopic manhole

Intended for:

- Reduction of the inside diameter of the relief ring T1 / 610/480/185 and the telescopic mounting of the DN 425(ø500mm) manhole. transferring traffic loads from road traffic acting on the top of the manhole onto surrounding the road foundation of the manhole .
- Protection of the telescopic pipe of the inspection well or rainwater well DN/OD 425 against damage both in the vertical and horizontal plane.
- Direct construction support:
 - telescopic manholes / inlets of plastic manholes DN 425 with the outer diameter of the body frame 500 mm in class D400 located with an oblique side in bituminous surfaces or made of pavement-type cubes

Supporting adapter TXP/480/425/230 under manholes telescopic manholes for DN425 plastic chambers.



Index	DN(mm)	DZ(mm)	H(mm)	Weight(kg)	Class
TXP/480/425/230	425/480	580/610	222	30	D400

3.Application

An adapter supporting a telescopic manhole DN 425 with a body diameter of $\varnothing 500$ mm in class D400. It is positioned directly under the manhole body on the relief ring T1 / 610/480/185 . The set of relieving and supporting elements ensures a full relief of the manhole elements from vertical and horizontal road loads.

For use in the communication engineering in accordance with the above-mentioned purpose in the field of public roads without limits , internal roads, road and railway engineering structures without limits .

In the traffic areas of groups 1-4, in class up to D400 according to PN-EN 124-1: 2015-07.

Used in:

- Under telescopic manholes DN 425 ($\varnothing 500$ mm) by Bohamet, Kaczmarek, Norson 110/1

Technical parameters of the TXP/480/425/230 supporting adapter

Compressive strength. Class	400kN D400	PN-EN 124-1 07-2015
Tensile strength	3Mpa	PN-EN ISO 527-1:2012
Degree of resistance to frost in water	F150(-2%)	PB IBDIM PB/TB-1/23
Degree of frost resistance in 2% NaCl	F50(-2%)	PB IBDIM PB/TWm-36/98
Absorptivity	<0,2%	PN-EN ISO 62:2008
Mechanical los	0,33 tg	
Hardness according to Schore	>46	PN-EN ISO 868:2005
Product dimensional tolerance	± 5 mm in diameter, ± 3 mm in height	
Support surface	760 cm ²	
Thermal resistance	-30° C do +60° C	In continuous work conditions.
Short-term thermal resistance 170° C	2h	In the conditions of installation in the bituminous surface
Material PVC/PE	80%	PN-EN 15346 2009

Product reference documents:

National Technical Assessment No. IBDiM-KOT-2017/0047 3rd edition

National Declaration of Performance No. 09 / EW / 22

Code CN 39259090

General assembly instructions:

- Around the shaft well (at a distance of ≥ 30 cm from the edge), compact the base course for the topping in accordance with the rules resulting from the ground conditions, compaction index, road structure type and traffic load category based on PN-ENV 1046 standard.
- Perform the compaction by hand, in layers, every 15 cm or with light mechanical equipment, in layers, every 30 cm along the entire height of the well, evenly around the circumference and obtain the degree of soil compaction in accordance with the design, requirements of the manhole assembly instructions:
- In areas with no traffic, the degree of density should be 92% on the Proctor scale, in pedestrian traffic routes (class A) the degree of density should be $\leq 95\%$, in the vehicle load (class D) it should be $\geq 98\%$ on the Proctor scale.
- In order to maintain the proper compaction, it is recommended to stabilize the soil with cement
- The ground / backfill around the shaft, sleeve, telescopic pipe should be free from point loads, consisting of gravel, sand, lean concrete (chippings and similar materials that damage the walls of plastic pipes are excluded).
- we place the T1 / 610/480/230 strain relief ring centrally over the manhole opening without disturbing the substructure / compacted base, leaving a free space of about 10 cm between the top of the shaft and the top edge of the ring (4 cm from the bottom of the supporting or reducing adapter)
- Put the TXP / 425/K supporting adapter on the T1 / 610/480/230 strain relief ring
- Before starting the assembly works of the DN 425 telescopic manhole check whether all the elements of the surface of the plastic manhole are structurally suited to the intended use:
- whether the well has been properly adjusted to the ordinate, e.g. by cutting the shaft pipes, correct foundation of the relieving ring,
- whether there is an adequate margin of about 20 cm for inserting a telescopic pipe,
- whether the compaction of the foundation around the well is correct and adequate for the location of the relief ring foundation,
- whether the appropriate height is maintained to the surface ordinate, enabling the installation of the adapter with the telescopic manhole,
- a gasket (or reducing and sealing collar with a lubricant) should be installed inside the shaft of the plastic well in the highest valley
- insert a telescopic manhole into the shaft with a supporting adapter TXP/425/K
- in case of a change in the ordinate of the surface, it is possible to slide the telescopic manhole out of the adapter and place a compacted bitumen layer in the space between the adapter and the manhole and press the manhole on

In traffic areas

- **around the top of the plastic manhole, up to the height of the adapter bottom, make the base of the road surface based on breakstone (approx. 65-70%) and quick-setting cement masses (approx. 30-35%) or B35 concrete or asphalt mass / hot asphalt concrete**
- commissioning should take into account the necessary time of complete cooling of the bituminous mass, allowing it to be put into service

Notes on installation conditions

During the height adjustment of sewage wells with the use of plastic elements of the TVR T System, unacceptable is:

- installation and assembly of support adapters on incorrectly positioned relief rings
- use of ground materials for compaction of the foundation that do not comply with the recommendations of the manufacturer of manholes and materials other than those approved for use in road construction described in PN-S

02205, height adjustment, overlapping, placing destructive elements acting on a point under the adapters

- laying the surface without making the correct foundation, filling and compacting the space around the surface of the plastic manhole