



Tapered Plugs WA-TP units are for sealing single transitions of pipes.

Two equal half round units are use for pipe sealing applications. The seals may be used on all pipe types.

- **60 minutes fire resistant (tested according to IMO regulations)**
- **Successfully tested up to 3 bar pressure tightness (Lloyd's Register)**
- **Suitable for the transit of pipes, based on PVC, casing tubes (DIN and ASTM format) and in bore holes**
- **Resistant to gas, water and pressure**
- **Wide range of subsequent measures available**
- **No supplementary parts or specific tools are necessary for mounting**

MOUNTING

1. Check the opening.

The inner side of the pipe, tube or hole needs to be cleaned carefully.

2. Lubricate.

It is recommended to lubricate both the inner side of the opening, and the outer and inner side of the plug, with acid-free Vaseline. This simplifies the installation and extends the lifespan of the sealing.

The acid-free Vaseline is available at WAT, in barrels of 150 ml.

3. Mount.

Make sure that the pipe or tube is placed exactly in the middle of the transit.

Put the two equal parts of the plug seal, with the flange on the pressure side, around the pipe or tube you want to seal. Push the plug into the opening with both hands. The two parts needs to be exactly on top of each other, to create a good sealing. The sealing can be inserted until the flange reaches the pressure side. Do not push further!

When the mounting gets harder, for example with bigger sizes, de sealing can be tapped in carefully with a flat piece of wood or a hammer.

PVC Ext. Ø (mm)	PSI plug Ø (mm)	Range sealing Ø (mm)	Bore hole Ø (mm)	PSI plug DH-AP Ø (mm)	Range sealing Ø (mm)
32	25.6	05-11	25	25.6	05-11
40	33.6	05-20	35	35	05-15
50	43.6	05-28	40	40	05-22
75	68.6	20-50	50	50	05-32
110	103.6	30-74	60	60	20-40
125	118.6	60-94	70	70	22-50
160	152	86-124	80	80	30-56
200	190.2	124-152	90	90	30-62
250	237.6	150-182	100	100	30-64
			125	125	40-90
			150	150	60-124
			200	200	110-160
			250	250	150-200

DIN Ext. Ø (mm)	PSI plug Ø (mm)	Range sealing Ø (mm)	ASTM Ext. Ø (mm)	PSI plug Ø (mm)	Range sealing Ø (mm)
42,4	37.2	05-18	60,3	52.5	15-32
60,3	54.5	15-34	88,9	77.9	20-50
88,9	82.5	30-60	114,3	102.3	30-70
114,3	107.1	50-82	141,3	128.1	50-94
139,7	131.7	70-100	168,3	154.1	60-120
168,3	159.3	80-124	219,1	202.7	110-160
219,1	207.3	122-162	273	254.4	150-200
273	260.4	150-200			

General information

Tapered plug sealing systems is the ideal sealing system for a singular transit of pipes or tubes. The plug consists of two equal, half round rubber parts, and can be used for four applications:

- PVC pipes
- Steel casing tubes (DIN)
- Steel casing tubes (ASTM)
- Standard bore holes and aluminum pipes

Dependent on the chosen rubber quality of the PSI plug, a gas-tight, watertight and/or fire resistant sealing is created.

Measure tables (all measurements in mm)

PVC Ext. Ø	Plug Ext. Ø	Range sealing Ø
32	25.6	0 + from 05 to 11
40	33.6	0 + from 05 to 20
50	43.6	0 + from 05 to 28
75	68.6	0 + from 0 to 50
110	103.6	0 + 25 + from 30 to 74
125	118.6	0 + 28 + 46 + 52 + from 60 to 94
160	152	0 + 62 + from 86 to 124
200	190.2	0 + 110 + 160 + from 124 to 152
250	237.6	from 150 to 182

Bore hole Ext. Ø	Plug DH-AP Ext. Ø	Range sealing Ø
25	25.6	0 + from 05 to 11
35	35	0 + from 05 to 15
40	40	0 + from 05 to 22
50	50	0 + from 05 to 32
60	60	0 + from 20 to 40
70	70	0 + from 22 to 50
80	80	0 + from 30 to 56
90	90	0 + from 30 to 62
100	100	0 + from 30 to 64
125	125	0 + from 40 to 90
150	150	0 + from 60 to 124
200	200	0 + 110 + 116 + 166 + from 124 to 160
250	250	from 150 to 200

DIN Ext. Ø	Plug Ext. Ø	Range sealing Ø
42,4	37.2	0 + from 05 to 18
60,3	54.5	0 + from 15 to 34
88,9	82.5	0 + from 30 to 60
114,3	107.1	0 + from 50 to 82
139,7	131.7	0 + from 70 to 100
168,3	159.3	0 + from 80 to 124
219,1	207.3	0 + from 122 to 162
273	260.4	from 150 to 200

ASTM Ext. Ø	Plug Ext. Ø	Range sealing Ø
60,3	52.5	0 + from 15 to 32
88,9	77.9	0 + from 20 to 50
114,3	102.3	0 + from 30 to 70
141,3	128.1	0 + from 50 to 94
168,3	154.1	0 + from 60 to 120
219,1	202.7	0 + 110 + from 124 to 160
273	254.4	114 + from 150 to 200

General information

Rubber quality

Material	Color	Temperature range	Specific characteristics
EPDM	Black	-25°C/+110°C	Standard rubber for a gastight and watertight sealing (for example heating pipes and water pipes)
FS	Red	-30°C/+120°C	Fire retardant rubber (also gas and watertight)
Nitrile	Blue	-25°C/+110°C	Resistant to the influence of oil and greases (for example hydraulic installations)
Silicone	Brown	-60°C/+200°C	Resistant to great differences in temperature (for example in cooling and steam pipes)
Viton	Green	-25°C/+200°C	Resistant to the influence of chemicals (for example in laboratories)

Certificates & Tests

Application	Tested by	Value
Pressure	Lloyd's	3 Bar
Fire / construction	Warrington	120 minutes
Fire / construction (PVC)	Warrington	60 minutes
Fire / Navigation	Lloyds/MCA, MED approval	A60

Product warranty

The lifespan of the products is guaranteed for 25 years. This warranty can only be given, when the right plug is chosen, the plug is used in the right way, and stored in a cold and dark place. Furthermore, this is no warranty on the right method to mount, the dynamic load, the influence of corrosive materials and/or chemicals, etc.

If you would like to receive more information, please contact us. We are pleased to help you.

Choose type and size

CHOOSE TYPE AND SIZE

1. Determine the material

Determine the material through which the singular pipe or tube needs to be guided. The PSI sealing system can be used for four applications:

- PVC pipe
- Steel casing tube (DIN)
- Steel casing tube (ASTM)
- Standard bore hole / aluminum pipe (DH-AP)

2. Determine the inner diameter of the opening

The inner diameter of the opening needs to be determined carefully. This is the outer diameter of the PSI plug. For example, a PVC pipe with an external \varnothing of 110mm, has an inner \varnothing of 103.6mm. The corresponding PSI plug needs to have an external diameter of 103.6mm.

3. Determine the outer diameter of the pipe or tube you want to seal

The outer diameter of the singular pipe or tube is, shortly said, the inner diameter of the plug (the size of the hole). Round down to whole millimeters (32.2 \rightarrow 32mm). This way, a correct sealing can be guaranteed. Every size of the PSI sealing system has a sealing range. This range indicates the smallest and widest transit possible. For example, in the 103.6 series, the smallest sealing size is 30mm, but it can also seal a pipe or tube of 75mm (maximum).

4. Determine the desired rubber

Sealing plugs are available in five different types of rubber. For example, a standard, EPDM rubber is available, that takes care of a gas-tight and watertight sealing. Also, there is a special rubber available, such as Viton, that makes sure the sealing is resistant to influences of chemicals. Furthermore, the FS plugs are specifically meant for a fire retardant solution and also seal against water and gas.

5. Conclusion

The identification of the tapered plug consists of three parts:

1. Inner size of the opening = outer size of the sealing plug
2. Outer size of the pipe or tube you want to transit
3. Rubber quality

For example, you want to guide a pipe \varnothing 50 through a PVC pipe (thick walled \varnothing 110). The sealing needs to be gas-tight and watertight. In that case, you need plug **103,6-50EPDM**.

Choose type and size

MOUNTING

1. Check the opening

The inner side of the pipe, tube or hole needs to be cleaned carefully.

2. Lubricate

It is recommended to lubricate both the inner side of the opening, and the outer and inner side of the PSI plug, with acid-free Vaseline. This simplifies the installation and extends the lifespan of the sealing.

The acid-free Vaseline is available at WAT, in units of 150 ml.

3. Mount

Make sure that the pipe or tube is placed exactly in the middle of the transit. Put the two equal parts of the tapered sealing, with the flange on the pressure side, around the pipe or tube you want to seal. Push the plug into the opening with both hands. The two parts need to be exactly on top of each other, to create a good sealing. The sealing can be inserted until the flange reaches the pressure side. Do not push further!

When the installation gets harder, for example with bigger sizes, the sealing can be tapped in carefully with a flat piece of wood or a hammer.

If you want to seal in a location where the pressure can come from both sides, a plug is placed at both sides of the wall, to seal both rooms. This method is also necessary for a gas-tight sealing.

If you would like to receive more information, please contact us. We are pleased to help you.

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