



## PDC BRANCH

### PRODUCT DESCRIPTION

This product is a **P**rotective **D**uct **C**losure (PDC) Branch for telecom applications. Specific to branch off multiple or single protective micro ducts.

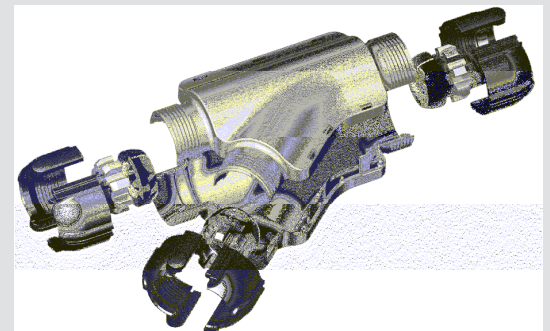
The product can be used with Wavin's standard Novonet, Novospace and Novomicro DB products. Also with protective pipes fulfilling EN 50086-2-4 (or NF 330, or EN 14281) with respect to dimensions. The pipe seal-squeeze ring combinations are specially designed to safeguard the water tightness with these products. The size of the nut relates to the chosen duct product.



### APPLICATION AREA

The PDC Branch will be used to branch off a small amount of micro ducts from a multiple duct system. The branch can be a multi duct or a single (micro) duct. The application is typical for the feeder or the distribution part of the network. The PDC Branch can be used in a Direct Buried or in a Direct Installed situation (manhole).

Application temperatures: as from -15 °C.



### PRODUCT FEATURES

- Splittable (body, nuts, squeeze ring + pipe seals)
- Suitable for pipes with diameters up to 50 mm
- Body provides enough space for connecting microducts with microduct fittings.
- Attractive industrial design appearance
- Water tight
- Resistance to tensile forces used in the field
- Suitable for low temperature installation
- Easy installation, without tools
- Small number of components

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## PRODUCT COMPONENTS

Part	Description	No of parts
A.	Body half	2
B.	Set of nut halves	3
C.	Pipe seal ring	3
D.	Squeeze ring	3
E.	Connection clamp	6

Different seal ring and squeeze ring sets sizes will be supplied with the product depending on the pipe to be installed. Herewith also Novonet pipes can be connected.



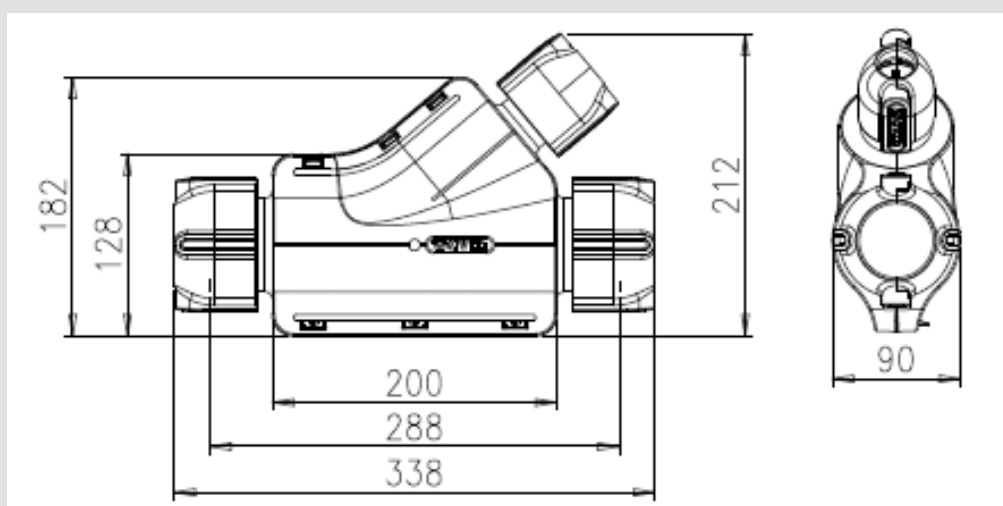
*Squeeze and seal rings*

## PRODUCT SPECIFICATIONS

### Material

Body	: PP
2K seal	: TPE-V
Nuts	: PP
Squeeze ring	: POM
Pipe seal ring	: EPDM
Pipe stop	: PE

### Dimension



### Colour

Body	: Light industrial blue (NCS : 2020 R90B)
Nuts	: Dark blue (NCS : 6020 R90B)

## PRODUCT PERFORMANCE

### **Pull out force**

>1500 N at test speed of 25 mm/min or at least stronger than the pipe installed.

### **Loading tests**

Showed no leakage when the installed body is tested after it is loaded with 100 kg.



Loading test

Pull out test

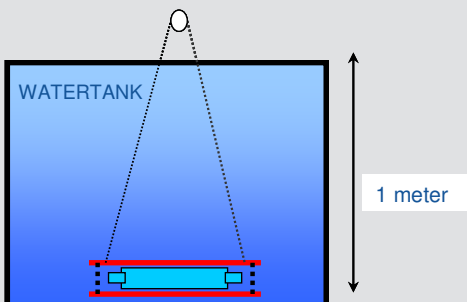


### **Impact resistance**

- No failure when dropped as delivered in plastic bag from 1 m height (-10 °C).
- No failure at 1 J impact test (1 kg load at 1 m with product on flat surface).

### **Water tightness**

- IP 68 (pipe bended with 9 ° and test with 5% ovality).



IP 68 test

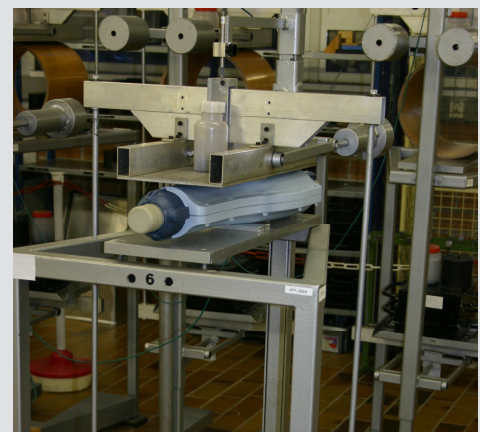


9° bending

- Body deformation test at 5 % showed no leakage in water tightness test.



Body deformation test



***Durability***

50 years life time expectancy through material testing.

***Creep test***

Tightness after deformation

***Closing force***

140 N, can be done by hand, no tools needed.

**PACKAGING AND LABELLING*****Packaging***

The carton box carries a label with a bar code, product drawing, product name and traceability number and contains:

- 8 plastic bags with a complete product
- Installation data sheet

***Labelling***

The plastic bag carries a label with a bar code, product drawing, product name and traceability number and contains:

- 2 body halves
- 3 sets of nut halves
- 3 plastic bags with the pipe seal - squeeze ring sets.
- 6 connection clamps

The bag with a pipe seal - squeeze ring sets is labelled with a list of connectable ducts.

***Service packs***

Loose sets of nut halves and pipe seal - squeeze ring sets are available on request.

**SAFETY ASPECTS**

In case of overpressure in the PDC the two body halves will release the pressure via the TPV seal at 0,3 Bar.

**INSTALLATION**

For installation method we refer to our Installation Data Sheet (IDS05) for this product I available in every box.