



# PLUG & SEAL CONNECTORS

**Plug & Seals are rubber-coated pipe sections** that create a safe, leak-free connection between housings. A secure, low-cost solution for the transport of air, water, and oils, they can combine several functions in a single component and compensate for conduit misalignment and tolerance variations. Plug & Seals are available in a wide variety of elastomer coatings.

**Plug & Seals are useful** in a wide range of applications including:

- Water and oil circuits
- Air routing systems of internal combustion engines
- Ancillary engine components such as superchargers, turbochargers or intake manifolds
- Automatic and manual transmission systems
- Valve and pipework systems
- Heating and air-conditioning systems



## VALUES TO THE CUSTOMER

**Plug & Seal plug connections from Freudenberg Sealing Technologies provide many technical and cost benefits:**

- Create a reliable seal even in high-pressure applications
- Give simple, secure, and low-cost fitting
- Ensure acoustic and mechanical decoupling
- Minimize maintenance costs due to greatly improved service life
- Compensate for misalignment and permit greater tolerances on installation
- Reduce logistics costs
- Combine several functions in a single component
- Offer clear benefits through lower total cost
- Design development according to customer-specific requirements

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## FEATURES AND BENEFITS

### FLEXIBLE COMPONENTS

#### Selection of materials

Rubber coatings and shock absorption are available with modern elastomer materials—for a range of different physical requirements. Customers are also free to choose the base material of the pipe section: steel, aluminium or plastic. Thanks to the flexible range of materials the plug connections can be used in virtually all sectors of fluids and gas transport.

Plug & Seal Connectors are designed according to customer specifications and are also available in standard dimensions for quick sampling.

#### Elastomer coating

- FKM
- ACM
- VMQ
- EPDM
- HNBR
- AEM
- NBR

#### Base part

- Steel
- Aluminum
- Plastic

#### Sealing Beads

#### Shock absorber



### Dimensions available for quick sampling in bold:

External diameter* [mm] Plug & Seal (A)**	Locating bore [mm] (acc. to H8) (B)***	Internal diameter pipe [mm] (R1)	Plug & Seal Length [mm] (L)					
15.5	<b>15</b>	10	<b>20</b>	25	<b>30</b>	40	50	60
20.7	<b>20</b>	14	<b>20</b>	<b>25</b>	30	40	50	60
25.9	<b>25</b>	18	20	<b>25</b>	30	40	<b>50</b>	60
30.9	<b>30</b>	22	20	<b>25</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>
40.9	<b>40</b>	32	20	25	<b>30</b>	40	50	<b>60</b>

Wall thickness of base part (b):

1.0 mm (Plug & Seal for locating bore 15, 20, 25 mm)

1.5 mm (Plug & Seal for locating bore 30, 40 mm)

\*Not all dimensions available

\*\*Minimum compression of 15%

\*\*\*Recommended values, depending on elastomer base material: steel (bonderised)

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