

## Valves - polymer materials testing and certification



More and more valves are being manufactured in full plastic for reasons of costs, maintenance and service life. For instance when it comes to the handling of highly corrosive media, polymeric materials are the best option. Most used polymeric materials for valve parts like valve bodies, housings, valve discs and shafts are PP, PVC, PPS, PPO, PTFE and PVDF.

### You are...

As a manufacturer you have to deal with many challenges that come along with product design, specific plastic and rubber compounds and special manufacturing techniques. Nevertheless your client demands high quality products that function properly. You can rely on the best technical support to reach these goals: the Kiwa polymer experts. But also if you are a purchaser or end user, or if you use, produce or specify valves, you can rely on our expertise of plastic and elastomers to find confirmation of the quality and reliability of valves in their specific applications.

### More valves parts

For sealing parts like O-rings, U-cups, diaphragms, sealing discs and valve seats, elastomeric materials are used. Most applied rubbers in both plastic and metal valves are EPDM (water), NBR (oil and gas) and FKM (chemical liquids). Good to know that Kiwa polymers experts can help you with independent testing, certification and quality related services regarding valves and plastic and rubber valve components.

Kiwa delivers many services in the field of valves.

An outline:

- certification of valves
- testing of physical-mechanical properties of plastic and rubber valve components

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- failure analysis
- service life prediction for specific applications
- independent arbitrations
- consultancy with respect to specifications and requirements for specific applications
- material selections
- inspections and guidance on location
- quality control and validation

## Your question is our challenge

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## More information

If you have questions or problems related to valves, please feel free to contact us.

For the approval and certification for drinking water and for gas application we will bring you into contact with the certification department.

## About Kiwa

Kiwa has specialized business units that focus on specific market segments, in the Netherlands and internationally. We offer specialist services in areas such as energy and water, fire safety and security, infrastructure, roof and facade advice, sports facilities and training. You can contact these business units for testing, inspection, certification, training and consultancy tailored to your market segment.

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