Testing and stop-off bags
for gas

MDA™ 1 bar - Multi dimensional Gas stop-off bag

- with DVGW approval DG 4520BR0183
- designed for manual positioning or for the use in combination with bag positioning devices
- connection depending on bag positioning device i.e. S+B, VEW double bag positioning device etc

MDA™ stop-off bags are made from an unique rubber

- designed to allow especially high internal pressure
- even for DN 300 bags the maximum counter pressure is 500 mbar, which is truly unique for stop-off bags of this type

MDA™ 1 bar - Multi dimensional stop-off bags are available as

- single bag with and without pressure measurement
- as double bag with tension release of the space between bags
- as bag for manual positioning with T-piece, ball valve, pressure gauge and conical rubber stopper

In comparison to conventional textile testing and stop-off bags, the new MDA™ bags offer a number of vital advantages such as:

- excellent gas tightness due to a special rubber type
- perfect positioning of the bag as soon as pressure is applied in combination with extreme mechanical resistance
- conical shape for superior flexibility and easy insertion even through bends
- highly resistant against temperature, oil and chemicals
- designed for easy positioning with MDA™ bag positioning devices up to 1 bar
- compatible with practically all bag-positioning devices available
- max. back pressure: 1.0 - 0.5 bar

Due to their temperature and chemical resistance MDA™ bags are ideal for stopping-off

- long-distance energy pipelines
- pipelines of the chemical industry

All products meet the requirements of highest quality and safety standards and are marked. This include the processing of a high quality natural and synthetic rubber compound, reinforcing with a rayon kevlar fabric and with corrosion resistant filling cuplings and holding rings.

Carefully selected suitable fabric materials are converted into our highly functional stop-off bags at our German works. The inside rubber layer confirm to all industrial standards and the DVGW regulations.
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MDA™ 1 bar Multi dimensional Gas stop-off bag

Type 110 for single bag positioning device without pressure measurement
• DN 50 - DN 315

MDA™ 1 bar Type 110 for single bag positioning device with pressure measurement
• DN 50 - DN 315

Type 110 for double bag positioning device with or without pressure release
• DN 50 - DN 315

Type 110 for manual position with T-piece, ball valves, manometer and conical rubber plug
• DN 50 - DN 315

Gas stop-off bags for bag positioning devices of all manufacturers

• the only DVGW approved fabric setting bag, certificate No DG-4520BS0461
• max. back pressure 0.8 - 0.2 bar

single bag for single S+B bag positioning device
• Type 090 with pressure measurement
• Type 091 without pressure measurement
• DN 80 - DN 400

single bag for double bag positioning device "VEW"
• Type 092
• DN 80 - DN 300

single bag for single bag positioning device "H+B" size 1
• with or without pressure measurement
• Type 093
• DN 50 - DN 200

double bag for S+B positioning device
• Type 095 with pressure release
• Type 096 without pressure release
• DN 80 - DN 400

double bag for positioning device "Manibs"
• Type 097 with pressure release
• Type 099 without pressure release
• G212 for Series J 125
• DN 80 - DN 300
Testing and stop-off bags
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Type 111 Stop-off bag
with long hose of approx. 600 mm
• single rubber gas stop-off bag
• without protective cover
• DN 50 - DN 800

Gas stop-off bag with conical rubber plug
max. back pressure 0.8 - 0.04 bar
Type 120 with probe
• single bag
• T-piece, ball valve and pressure gauge
• DN 40 - DN 1600

Type 121 without probe
• single bag
• with quick connection type 26
• DN 40 - DN 1600

Type 130 Gas double stop-off bag without pressure release
• each bag with own air supply
• max. back pressure 0.7 - 0.04 bar
• DN 80 - DN 1600

Type 140 Gas single stop-off bag with pressure measurement
• with crossfitting
• two ball valves, pressure gauge and conical rubber plug
• max. back pressure 0.8 - 0.04 bar
• DN 40 - DN 1600

Type 160 Gas single stop-off bag with extra strong special cover
• with special cover, T-piece, ball valve and pressure gauge, with thread
  and tightening nut for close injecting of the conical rubber plug
• max. back pressure 1.0 - 0.04 bar
• DN 40 - DN 1600

Gas double stop-off bag with extra strong special cover
• each bag with own air supply, with thread and tightening nut
  for close injecting of the conical rubber plug
• max back pressure 1.0 - 0.04 bar
Type 170 without pressure release
• DN 80 - DN 1600
Type 171 with pressure release
• DN 80 - DN 300
Testing and stop-off bags for gas

Manual insertion gas stop-off bag
installed on a 1 m PA-hose with an inner steel spiralon on the inside as guidance and filling linkages
- max. 0.8 - 0.04 bar
Type 180 with T-piece, ball valve/air connector type 26 and one pressure gauge with protective cap
- single bag
- flexible version
- DN 40 - DN 1600
Type 181 with quick connection coupling type 26, without pressure gauge
- single bag
- flexible version
- DN 40 - DN 1600
Type 182 with pressure gauge and Perbunan coated cover, with T-piece, ball valve/air connector type 26 and pressure gauge with protective cap
- single bag
- flexible version
- DN 40 - DN 1600

Double bag for Nitrogen-Hydrogen mixture weld
- Type 185 with additional cover made of aluminum coated fiberglass
- connected with a high grade steel waving hose for filling the intermediate space with Nitrogen-Hydrogen mixture for a perfect welding seam
- max. back pressure 0,8 - 0,04 bar
- DN 40 - DN 1600

Single bag for Nitrogen-Hydrogen mixture weld
- Type 186 with additional cover made of aluminum coated fibreglass
- max. back up pressure 0,8 - 0,04 bar
- DN 40 - DN 1100
Testing and stop-off bags for gas

HA* gas stop-off bag for house connection installed onto PA** pipe
- with internal steel spiral
- length 800 mm
- PA tube 8-10 mm
- Type 103

<table>
<thead>
<tr>
<th>HA bag</th>
<th>opening</th>
<th>closing</th>
<th>connection</th>
<th>pressure</th>
<th>length</th>
</tr>
</thead>
<tbody>
<tr>
<td>bicycle valve</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>car valve</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>Superflex, bicycle valve</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>Superflex, car valve</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>short bag, bicycle valve</td>
<td>3/4&quot; - 1 1/4&quot;</td>
<td>3/4&quot; - 1 1/4&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>short bag, car valve</td>
<td>3/4&quot; - 1 1/4&quot;</td>
<td>3/4&quot; - 1 1/4&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>3&quot; with care valve</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>3&quot; - 4&quot;, Type RV 35/70, pipe 10 mm 800 mm long</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>PA pipe</td>
<td>8 mm and 10 mm</td>
<td>3/4&quot; - 2 1/2&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
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<tr>
<td>replacement bag</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
<tr>
<td>replacement short bag</td>
<td>3/4&quot; - 1 1/4&quot;</td>
<td>3/4&quot; - 1 1/4&quot;</td>
<td>3/4&quot;</td>
<td>4 bar</td>
<td>800 mm</td>
</tr>
</tbody>
</table>

Accessories for HA* stop-off bags (house connection)
- testing head with pressure gauge
- opening with bicycle or car valve
- for filling the stop-off bag
- closing with air nipple valve type 20
- connection to stop-off bag
- up to 4 bar
- Type 103

Hand pump
- small
- with no return valve
- T-piece
- pressure gauge up to 4 bar
- 0.5 m inflating tube (braided hose with inside diameter of 4 mm)
- closing lever for car valve
- suitable for sleeve 9 mm

* house connection
** Polyamid
Testing and stop-off bags for gas

End cap holder "Perk system" Type 9000, patented
- to secure sleeves and end pieces of pressurized gas pipes or pipe ends
- DN 80 - DN 400
- up to 100 mbar

Repair patches with thermo sealing Type 5000
- for welding to steel pipes
- DN 50/60.3 mm - DN 300/323.9 mm

Mounting devices for repair patches Type 5000
- incl. potential equalization

Hydraulic squeezing device to close steel pipes Type 800
- up to DN 80
- with pump and case

Water pump for quick evacuating of water made of high-grade steel
- Type 500 with pressure and vacuum link, 1"
- Type 501 with metal base and 1.5 m plastic hose

Pressure and vacuum pump
- Type 070 2.0 m hose for filling and
- Type 071 with pressure pump, with 2.0 m hose for filling
- hose extension