**I Application**

The PIG system is ideal for the recovery of any product remaining in a pipeline in the end of the transfer process. As this product can be of a high value the PIG system recovers the product removing it from the pipelines and preparing the pipeline for a CIP process. Another benefit is the reduction of the fluid sent to the sewage treatment plant that results in saving energy and water.

The main application of the system is viscous media. Among the products treated there are chocolates, marmelades, confectionary creams in the food-processing industry, or gels, cremes and other body care products of high value in the cosmetic industry.

**I Operating principle**

The system comprises a launcher, a receiver, a PIG (or a sphere), two position detectors (one for the launcher and the other for the receiver), four automatic butterfly valves and 2 KH multi-way valves.

The basic principle is that the sphere is put to the launch position. Then the sphere is driven by a propellant (normally compressed air) down the pipeline to the receiver thus recovering any product left in the pipeline. When recovery is complete, the PIG is situated at the receiver and the system can be cleaned, the PIG can also be cleaned during the normal CIP routine. Upon completion of the CIP process the sphere is located in the launcher leaving the plant ready for the next production run.

**I Design and features**

- Standard system: SIL PIG.
- Hygienic system.
- High level of product recovery.
- PIG can pass through 1.5D bends.
- Connections: DIN (standard).
- Size ranges: DN40 (1 ½") to DN80 (3").

**I Materials**

- Metallic product contact surfaces: AISI 316 L
- Other metal parts: AISI 304
- PIG: Silicone
- Gaskets: EPDM

**I Options**

- Connections: RJT, SMS, clamp, flanges, etc.
- Spheres: EPDM, Nitrile, Neoprene and Viton ®.
- Gaskets: Silicone, NBR, PTFE, Viton ®.
- STERIPIG system.
- Manual system (launch and/or reception)
- Various levels of automation.
- Control panel.
- Second drain port.
### Technical Specifications

- **Max. temperature**: 120°C
- **Max. operating pressure**: 10 bar
- **Air pressure**: 5-7 bar
- **Indicators, switches and solenoids**: 24 VDC

### Benefits / Advantages

- Production downtime reduced.
- Raw material loss reduced.
- Recovery of up to 98% of the product.
- Effluent reduced.
- CIP cleaning time, water consumption and quantity of chemical products reduced.

### General Dimensions

**Male DIN 11851**

<table>
<thead>
<tr>
<th>DN</th>
<th>D1</th>
<th>D2</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>L*</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>38</td>
<td>26</td>
<td>116</td>
<td>91</td>
<td>173</td>
<td>52</td>
<td>74</td>
<td>588</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
<td>26</td>
<td>104</td>
<td>87</td>
<td>168</td>
<td>58</td>
<td>74</td>
<td>589</td>
</tr>
<tr>
<td>65</td>
<td>66</td>
<td>26</td>
<td>159</td>
<td>122</td>
<td>255</td>
<td>67</td>
<td>89</td>
<td>836</td>
</tr>
<tr>
<td>80</td>
<td>81</td>
<td>26</td>
<td>156</td>
<td>105</td>
<td>262</td>
<td>75</td>
<td>89</td>
<td>839</td>
</tr>
</tbody>
</table>

**Clamp OD ASME BPE**

<table>
<thead>
<tr>
<th>DN</th>
<th>D1</th>
<th>D2</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>L*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ½</td>
<td>34.8</td>
<td>22.1</td>
<td>115</td>
<td>88</td>
<td>169</td>
<td>50</td>
<td>74</td>
<td>586</td>
</tr>
<tr>
<td>2</td>
<td>47.5</td>
<td>22.1</td>
<td>104</td>
<td>80</td>
<td>167</td>
<td>56</td>
<td>74</td>
<td>585</td>
</tr>
<tr>
<td>2 ½</td>
<td>60.2</td>
<td>22.1</td>
<td>159</td>
<td>113</td>
<td>250</td>
<td>64</td>
<td>88</td>
<td>822</td>
</tr>
<tr>
<td>3</td>
<td>72.9</td>
<td>22.1</td>
<td>141</td>
<td>107</td>
<td>245</td>
<td>70</td>
<td>88</td>
<td>824</td>
</tr>
</tbody>
</table>

*L can vary depending on the actuator. The length indicated is with the INOXPA standard actuator.