The Victaulic® HP-70ES EndSeal® coupling incorporates a specially formulated and compounded oil-resistant nitrile gasket with a high modulus for resistance to extrusion. EndSeal gaskets have an integral central leg which positions between the pipe ends for use with plastic-coated or cement-lined pipe. The housings have a patented “come-along” design which aids in installation and draws the pipe ends securely into the central leg for a continuous lined-surface and lined-pipe end protection. The coupling permits higher pressure capabilities up to 2,500 psi/17235 kPa, depending upon size. HP-70ES housings are cast of ductile iron and supplied with plated, high-tensile steel, track-head-type bolts with nuts. HP-70ES housings in all sizes must be bolted securely to provide metal-to-metal contact at the bolt pads. A variety of high-pressure fittings with EndSeal (ES) grooves are available for use with the HP-70ES couplings.

HP-70ES couplings must always be used with pipe or fittings grooved to Victaulic “ES” dimensions. HP-70ES couplings cannot be used with Victaulic Series 700 butterfly valves.

### MATERIAL SPECIFICATIONS

**Housing:** Ductile iron conforming to ASTM A-395, grade 65-45-15, and ASTM A536, grade 65-45-12.

**Coating:**
- Black enamel
- **Optional:** Hot dipped galvanized and others

**Gasket:** (specify choice*)
- Grade HMT - High Modulus Nitrile (Standard or EndSeal- Specify choice on order)
  Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. Temperature range is -20°F to +180°F/-29°C to +82°C. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°C/+66°C or for hot dry air over +140°C/+60°C. For maximum gasket life under pressure extremes, the temperature should be limited to +120°F/+49°C.

* Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

**Bolts/Nuts:** Electroplated, heat treated carbon steel, track-head type, conforming to physical properties of ASTM A-183, minimum tensile 110,000 psi/758340 kPa.
**EndSeal® Couplings**

**STYLE HP-70ES**

**FOR PLASTIC COATED PIPE OR FOR HIGH-PRESSURE RIGID SYSTEMS**

### DIMENSIONS

![Diagram of HP-70ES Coupling](image)

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Actual Outside Diameter</th>
<th>Nominal Size</th>
<th>Actual Outside Diameter</th>
<th>Working Pressure</th>
<th>End Load</th>
<th>@Bold/Num.</th>
<th>Dimensions</th>
<th>Allow. Pipe</th>
<th>@Bold/Num.</th>
<th>Dimensions</th>
<th>Allow. Pipe</th>
<th>@Bold/Num.</th>
<th>Dimensions</th>
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<tr>
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<td>Inches/Inches</td>
<td></td>
<td>Inches/Inches</td>
<td>Inches/mm</td>
<td>Lbs. N</td>
<td>Inches</td>
<td>X</td>
<td>Y</td>
<td>Z</td>
<td>Lbs. kg</td>
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</table>

* Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, “ES” cut or roll grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

**WARNING:** FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 1/4 times the figures shown.

# For field installation only. HP-70ES is essentially rigid and does not permit expansion and contraction.

@ Number of bolts required equals number of housing segments.

Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.

HP-70ES couplings must always be used with pipe or fittings grooved to Victaulic “ES” dimensions. HP-70ES couplings cannot be used with Victaulic Series 700 butterfly valves.

### WARNING

Depressurize and drain the piping system before attempting to install, remove or adjust any Victaulic piping products.

### WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

### NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

**Lenntech bv**

Rotterdamseweg 402m
2629HH Delft
info@lenntech.com
www.lenntech.com
Tel. +31-15-261.09.00
Fax. +31-15-261.62.89