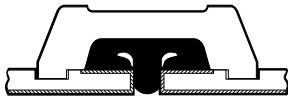
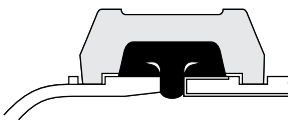


Victaulic® EndSeal® Coupling Style HP-70ES



EndSeal on pipe



EndSeal with fitting

Illustrations are exaggerated for clarity

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-536, grade 65-45-12.

Housing Coating: (specify choice)

Standard: Black enamel.

Optional: Hot dipped galvanized and others.

Gasket:

Grade "HMT" - High Modulus Nitrile (EndSeal)

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.

1 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.

Product Description

FOR PLASTIC COATED PIPE OR FOR HIGH PRESSURE RIGID SYSTEMS

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.

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.

Job/Owner

System No.	
Location	

Contractor

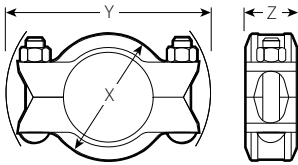
Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	

Dimensions

Style HP-70 ES



Nominal Size inches mm	Actual Outside Diameter inches mm	Maximum Working Pressure ² psi kPa	Maximum End Load ² lbs. N	Allow. Pipe End Separation ³ inches mm	Bolt/Nut ⁴ (No.) size inches	Dimensions			Approx. Weight Each lbs. kg
						X inches mm	Y inches mm	Z inches mm	
2 50	2.375 60.3	2500 17250	11000 48950	0.19 4.8	2- 5/8 x 2 3/4	3.44 87	6.51 165	1.88 48	3.2 1.5
2½ 65	2.875 73.0	2500 17250	16200 72090	0.19 4.8	2- 5/8 x 3 ½	4.00 102	7.10 180	1.88 48	4.0 1.8
3 80	3.500 88.9	2500 17250	25400 113030	0.19 4.8	2- 5/8 x 3 ½	4.69 119	7.74 197	1.88 48	4.6 2.1
4 100	4.500 114.3	2500 17250	39000 173550	0.19 4.8	2- ¾ x 4 ¼	5.94 151	9.54 242	2.13 54	8.2 3.7
6 150	6.625 168.3	2000 13800	68800 306160	0.27 6.7	2- 7/8 x 5 ½	8.50 216	12.61 320	2.38 60	16.4 7.4
8 200	8.625 219.1	1500 10350	87500 389375	0.27 6.7	2- 1 x 5 ½	10.94 278	14.97 380	2.75 70	26.0 11.8
10 250	10.750 273.0	1250 8600	114500 509525	0.28 7.1	2- 1 x 6 ½	13.43 341	17.22 437	2.88 73	37.2 16.9
12 300	12.750 323.9	1250 8600	160800 715560	0.28 7.1	2- 1 x 6 ½	15.56 395	19.06 484	3.00 76	42.0 19.1

- 2 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.
- 3 For field installation only. HP-70ES is essentially rigid and does not permit expansion and contraction.
- 4 Number of bolts required equals number of housing segments.

General Notes

HP-70ES couplings cannot be used with Victaulic Series 700 butterfly valves.
 HP-70ES couplings **must always** be used with pipe or fittings grooved to Victaulic "ES" dimensions.
 Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.
 WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1¼ times the figures shown.



WARNING

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

Installation

Reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

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.

Trademarks

Victaulic® and EndSeal are registered trademarks of Victaulic Company.