



GRINNELL Figure 71H Flange Adapters - Hinged

General Description

The GRINNELL Figure 71H Hinged Flange Adapter allows a direct transition from flanged components to GRINNELL grooved components. The two segments design comes with a pre-pressed ring at one of the mating ends which facilitates a hinged action. This allows for an easy and quick installation. The specially designed gasket enables the transition from a grooved system to a flanged system with a single flange adapter. The flange bolt patterns conform to ANSI Class 125 and 150.

NOTICE

The GRINNELL Products Figure 71H Hinged Flange Adapter described herein must be installed and maintained in compliance with this document, in addition to the standards of any authorities having jurisdiction. Failure to do so may result in serious personal injury or impair the performance of these devices.

Never remove any piping component nor correct or modify any piping deficiencies without first de-pressurizing and draining the system. Failure to do so may result in serious personal injury, property damage, and/or impaired device performance.

It is the designer's responsibility to select products suitable for the intended service and to ensure that pressure ratings and performance data are not exceeded. Material and gasket selection should be verified to be compatible for the specific application. Always read and understand the installation instructions.

The owner is responsible for maintaining their mechanical system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Technical Data

Sizes

2 to 12 in. (DN50 to DN300 ANSI Class 125/150)

Approvals

UL and ULC Listed
UL, C-UL Listed Water Quality Classified
FM Approved
Certified to all requirements of NSF/ANSI 61
IAPMO UPC Certified

Maximum Pressure

Refer to Figure 1.

Housing

Ductile iron conforming to ASTM A536, Grade 65-45-12 and/or ASTM A395, Grade 65-45-15

Protective Coatings

- Non-lead orange paint
- RAL3000 red non-lead paint (optional)
- Hot-dipped galvanized conforming to ASTM A153 (optional)

Gasket

- Grade "E" EPDM, Green color code -30°F to 230°F (-34°C to 110°C)
- Grade "T" Nitrile, Orange color code -20°F to 180°F (-29°C to 82°C)
- Grade "O" Fluoroelastomer, blue color code +20°F (-7°C) to +300°F (+149°C)
- Grade "L" Silicone, red gasket -30°F (-34°C) to +350°F (+177°C)

Refer to Technical Data Sheet G610 for aid in selecting proper gasket.

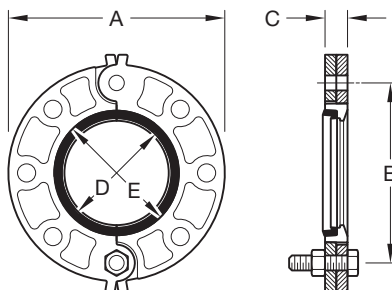
Installation

The GRINNELL Figure 71H Hinged Flange Adapter must be installed in accordance with the installation instructions provided in Technical Data Sheet G907.



**10
YEAR
LIMITED
WARRANTY**

For warranty terms and conditions, visit www.grinnell.com



Nominal Pipe Size		Max ^b Pressure psi bar	Max End Load ^b (CWP) Lbs. kN	Nominal Dimensions Inches/mm					Recommended Flange Mating Bolts			Approx. Wt. Lbs. kg
ANSI Inch DN	O.D. Inches/ mm			A	B	C	D ^a	E ^a	Size Dia. x Lg. Inches	Qty.	Bolt Torque Range Lbs.-ft. Nm	
2 DN50	2.375 60,3	500 34,5	1,330 5,92	6.00 152	4.75 121	0.87 22	2.36 60	3.42 87	5/8 x 3	4	110-140 149-190	4.0 1,8
2-1/2 DN65	2.875 73,0	500 34,5	1,950 8,67	7.00 178	5.50 140	0.88 22	2.87 73	4.00 102	5/8 x 3	4	110-140 149-190	5.1 2,3
3 DN80	3.500 88,9	500 34,5	2,880 12,81	7.50 190	6.00 152	0.94 24	3.50 89	4.56 116	5/8 x 3	4	110-140 149-190	6.2 2,8
4 DN100	4.500 114,3	500 34,5	4,770 21,22	9.00 229	7.50 191	0.94 24	4.50 114	5.56 141	5/8 x 3	8	110-140 149-190	8.3 3,8
5 DN125	5.563 141,3	500 34,5	7,290 32,43	10.00 254	8.50 216	1.00 25	5.56 141	6.73 171	3/4 x 3-1/2	8	220-250 298-339	10.3 4,7
6 DN150	6.625 168,3	500 34,5	10,340 44,47	11.00 279	9.50 241	1.00 25	6.62 168	7.78 198	3/4 x 3-1/2	8	220-250 298-339	11.1 5,0
8 DN200	8.625 219,1	400 27,6	17,520 75,37	13.50 343	11.75 298	1.12 28	8.62 219	9.94 253	3/4 x 3-1/2	8	220-250 298-339	17.2 7,8
10 DN250	10.750 273,0	400 27,6	27,210 117,01	16.00 406	14.25 362	1.18 30	10.75 273	12.31 313	7/8 x 4	12	320-400 434-542	25.7 11,7
12 DN300	12.750 323,9	400 27,6	38,280 164,71	19.00 482	17.00 432	1.25 32	12.75 324	14.31 364	7/8 x 4	12	320-400 434-542	37.6 17,1

NOTES:

a. Dimensions D and E represent minimum and maximum sealing surfaces.

b. Maximum pressure and end load are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ on other pipe materials and/or wall thickness. Contact GRINNELL Products for details.

FIGURE 1
FIGURE 71H FLANGE ADAPTER - HINGED
FOR USE WITH ANSI CLASS 125 AND 150 FLANGES

Ordering Procedure

GRINNELL Products are available globally through a network of distribution centers. For the nearest distributor, visit www.grinnell.com. When placing an order, indicate the full product name.

Specify the following:

- GRINNELL Figure 71H Flange Adapter - Hinged
- Quantity
- Size:
ANSI Inch size, DN, or pipe O.D.

- Flange Bolt Pattern Designation:
Class 125/150
- Protective coating: non-lead orange paint, RAL red non-lead paint, epoxy coated, or hot-dipped galvanized
- Type of gasket: Grade "E" EPDM, Grade "T" Nitrile, Grade "O" Fluoroelastomer, or Grade "L" Silicone