

Gasketed & Welded Diaphragm Valves

Introduction

Available in gasketed and welded versions, this valve offers a Cv of 0.2. Operating temperature range of the welded construction version is -65° to +600° F (-54° to +316° C), permitting it to be used for high temperature bake-out. The gasketed version can be used in high vacuums, corrosive fluids, and gas analysis.



Typical Applications

- High temperature bake-out
- High vacuum
- Instrumentation
- Research labs
- Gas analysis
- Corrosive fluids

Features & Benefits

- Monel® construction
- Diaphragm provides low internal volume and low dead space
- ¼" socket weld tube extensions
- All welded models may be used for bake-out temperatures to 600° F (316° C) – plastic handle cap must be removed
- Select from globe or angle flow patterns
- Compact size
- · All models can be base mounted

Gasketed Valves

- Square drive on handle permits reach rod operation for remote areas
- Easy replacement of diaphragm assembly
- Special High Tolerance NPT Thread

Technical Data

	GASKETED	WELDED		
MAXIMUM OPERATING PRESSURE	300 psig @ 70° F (2.07 MPa @ 21° C)	vacuum to 300 psig @ 70° F		
VACUUM	10 ⁻⁵ Torr	_		
TEMPERATURE RANGE	-65° F to +240° F (-54° C to +116° C)	-65° F to +600° F (-54° C to +316° C)		
ORIFICE SIZE	0.125 (3.2 mm)	0.125 (3.2 mm)		
Cv FACTOR	0.2	0.2		
INTERNAL VOLUME	0.11 cubic inches	0.11 cubic inches		
HELIUM LEAK TEST -ENVELOPE MAX.	5 x 10 ⁻⁹ SCC/SEC	_		
-SEAT MAX.	1 x 10 ⁻⁸ SCC/SEC			

SEAT MAX. 1 x 10⁻⁸ SCC/SEC **HOKE Incorporated**405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303

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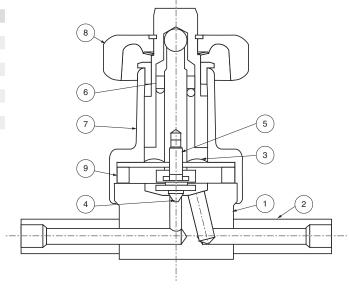
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packless valves

Materials of Construction

Gasketed

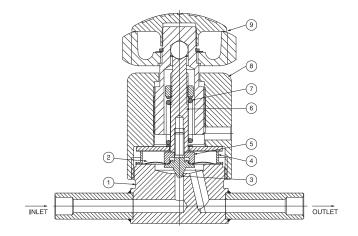
DESCRIPTION		MONEL®			
1	Body	Monel®			
2	Tube extensions	Monel®			
3	Diaphragm	Inconel®			
4	Stem point	Monel® K-500			
5	Stem	316 stainless steel			
6	Compression spring	Music wire			
7	Housing	Brass, nickle-plated			
8	Handle	Ni silver			
9	Gasket	Aluminum			



Materials of Construction

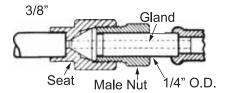
Welded

	DESCRIPTION	MONEL®		
1	Body	Monel®		
2	Diaphragm	Inconel®		
3	Stem point	Monel® K-500		
4	Diaphragm ring	Monel®		
5	Diaphragm clamp	316 stainless steel		
6	Stem	316 stainless steel		
7	Compression spring	Music wire		
8	Housing	316 stainless steel		
9	Handle	Ni silver		



This tube union is designed for use with all 4600 Series valves in high vacuum applications. The gland end may be connected to tubing or block with 1/4" O. D. The seat end will fit tubing or a projection of 3/8" O. D. (To order, specify part number 62076.)

DESCRIPTION	MATERIAL
Seat end	Monel®
Gland	Monel®
Male Nut	aluminum bronze

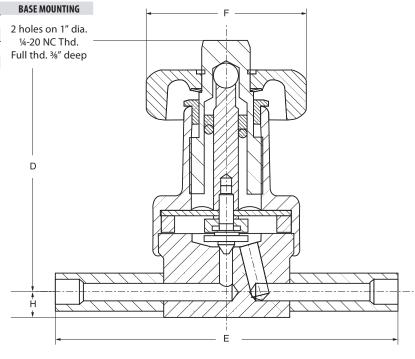


Dimensions

Gasketed

PART NUMBER		D	E	F	Н
4613N4M	inch	2 %	3 ½	1 %	1/4
4013114111	mm	66	89	41	6
4623N4M	inch	2 %	1 3/4	1 %	1/4
4023114111	mm	66	44	41	6

Dimensions for reference only, subject to change.



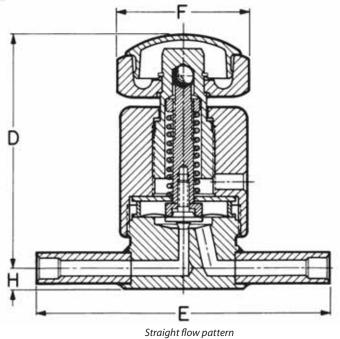
Straight flow pattern

Dimensions

Welded

CONNECTIONS	FLOW PATTERN		D	E	F	Н	BASE MOUNTING
1/" O D to b	D. tube Angle	inch	2 13/16	1 3/4	1 %	1/4	2 4" :
4 O.D. tube		mm	71	44	41	6	2 holes on 1" dia. - ¼-20 NC Thd.
¼″ O.D. tube	Straight	inch	2 13/16	3 ½	1 %	1/4	Full thd. ¾" deep
		mm	71	89	41	6	ruii tha. 78 deep

Dimensions for reference only, subject to change.



How to Order

Order valve by part number shown in chart.

			ORDER BY PART NUMBER		
	CONNECTIONS	FLOW PATTERN	MONEL®		
GASKETED	1/4" Tube extensions	Straight	4613N4M		
MASKETED	1/4" Tube extensions	Angle	4623N4M		
WELDED	1/4" Socket weld tube extensions	Straight	4618N4M		
WELDED	1/4" Socket weld tube extensions	Angle	4628N4M		

For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

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