

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 Appli		Features & Benefits						
 High temperat 	ture bake-out	Monel [®] construction						
 High vacuum 		Diaphragm provides low internal volume and low						
 Instrumentation 	on	dead space						
Research labs		¹ / ₄ socket weld tube extensions						
 Gas analysis 		All welded models may be used for bake-out						
Corrosive fluid	s	temperatures to 600° F (316° C) – plastic handle cap						
		must be removedSelect 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 Dat	ta							
	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							

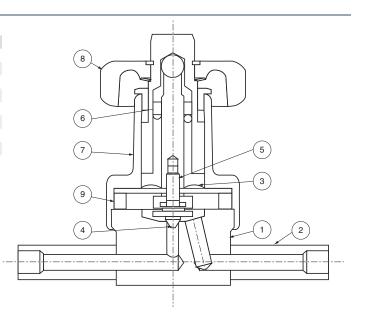
HOKE Incorporated

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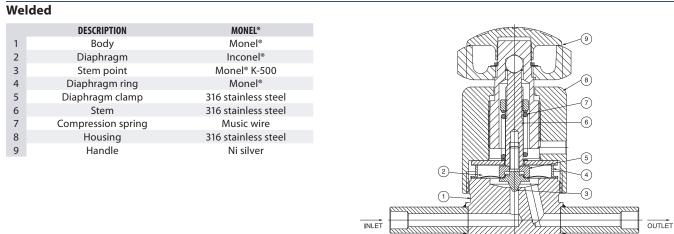
Materials of Construction

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				

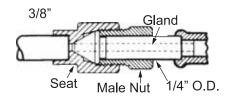


Materials of Construction



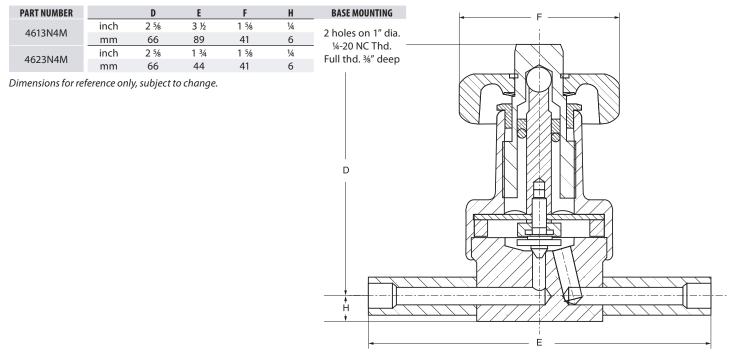
This tube union is designed for use with all 4600 Series valves in high vacuum applications. The gland end may be connected to tubing or block with 1/4" O. D. The seat end will fit tubing or a projection of 3/8" O. D. (To order, specify part number 62076.)

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



Dimensions

Gasketed



Straight flow pattern

Dimensions

Welded

Welded								
CONNECTIONS	FLOW PATTERN		D	E	F	Н	BASE MOU	JNTING
¼″ O.D. tube Angle	Angle	inch	2 ¹ %	1 3⁄4	1 5%	1⁄4	2 holes on 1" dia. ¼-20 NC Thd.	
	Angle	mm	71	44	41	6		
¼″ O.D. tube	Straight	inch	2 ¹ 3⁄16	3 ½	1 5%	1⁄4	Full thd. ¾" deep	
		mm	71	89	41	6		
Dimensions for re	eference only, sub,	ject to cha	inge.					777772

Straight flow pattern

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		
	1/4" Tube extensions	Angle	4623N4M		
WELDED	1/4" Socket weld tube extensions	Straight	4618N4M		
	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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