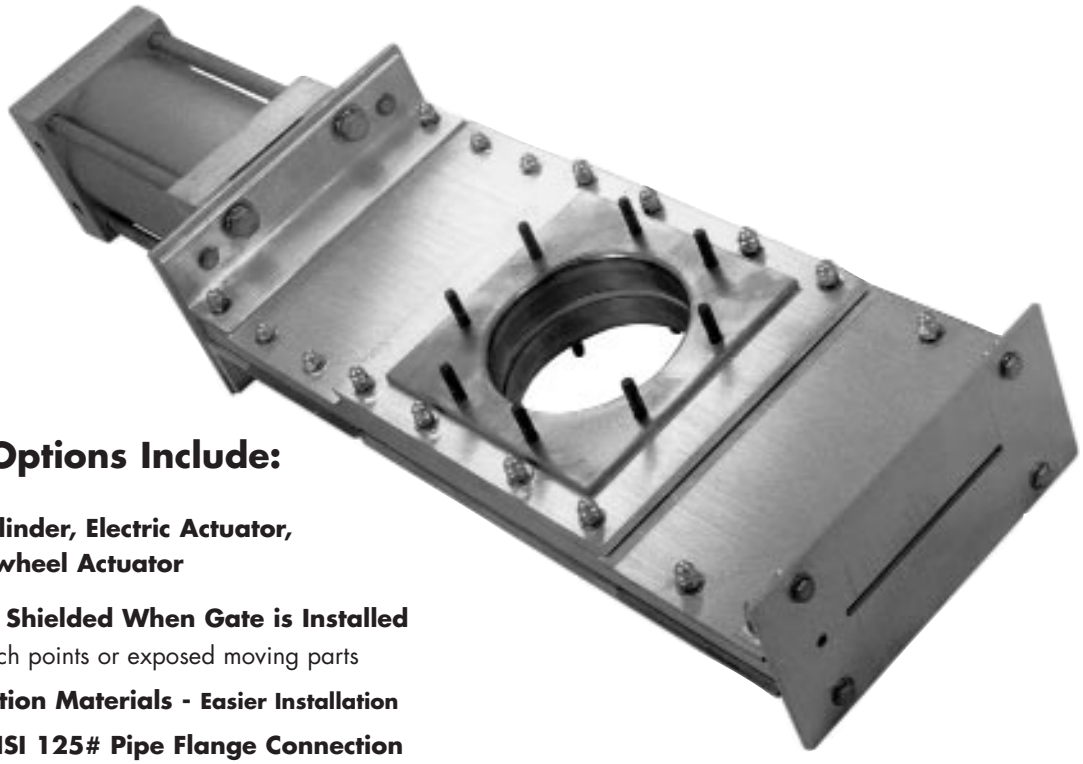
CALIFORNIA PHONE (714)432-0500 FAX (714)432-0058 PENNSYLVANIA PHONE (724)588-9327 FAX (724)588-9329

Knife Gate Valves

ADVANCED BULK & CONVEYING

This knife gate valve is designed specifically for handling dry bulk materials.
The patented design has eliminated trouble spots inherent with conventional knife gates and butterfly valves.



Features and Options Include:

Double Acting Air Cylinder, Electric Actuator, Handcrank or Chainwheel Actuator

All Moving Parts are Shielded When Gate is Installed

- Safe operation, no pinch points or exposed moving parts

Lightweight Construction Materials - Easier Installation

Standard Tube or ANSI 125# Pipe Flange Connection

Optional Position Proofing

Optional Positioning Controls for Metering Material Flow

Corrosion and Wear Resistant Construction

- Improved gate performance on a wide range of materials
- Extended service life

Unobstructed Orifice

- Unrestricted flow of materials
- Improved air conveying system performance
- Cleaner operation

Optional Special Service Inlet

Optional Lined Orifice

Hard Polymer Seals

- Wear resistant and long term trouble free service

Self-Cleaning Action

- Mechanically self-cleans on the opening stroke
- No open chest areas where materials can lodge and remain trapped

Superior Closing Action

- Minimum shearing of materials
- Reduced gate wear

Reliable Sealing*

- Positive material and air flow shut off up to 15 PSIG

* Consult factory for pressure rating of each orifice gate size and series

Narrow Profile

- Easier installation in restricted areas

– CONTINUED –

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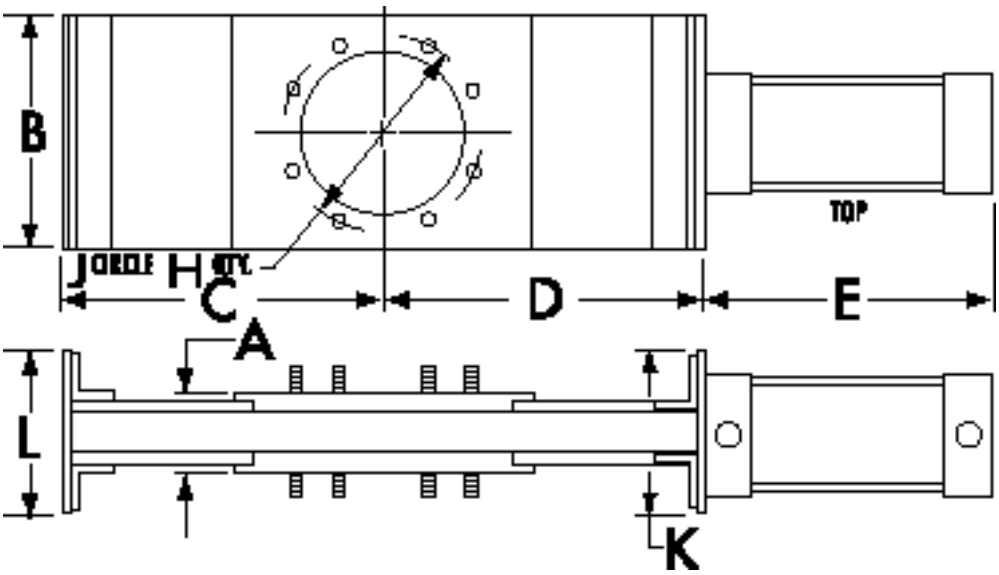
Knife Gate Valves (continued)

ADVANCED BULK & CONVEYING



- Standard gate construction will handle applications up to 180° F. (See high temperature modifications)
- Equipment weighing in excess of 200 lbs., above or below the gate, should be supported to insure optimum gate performance.
- In order for the Orifice Gate to self-clean, the gate must cycle full open.

MODEL	GATE SIZE*	A	B	C	D	E	Flange Gasket 1/4 X F I.D. X G O.D. Stud bolts with Nuts 5/16 - 18N.C. x 7/8, H QTY., Eq. Space on J Circle F	G	H	J	K	L	WT. (LBS.)	Nominal Free Flow Material Rate
B02	2"	1 3/4	5	4 1/2	6 1/4	6 1/4	2	4	4	3 1/4	4	3 3/4	11	150 CF/HR.
B03	3"	1 3/4	6	6	7 3/4	7 1/4	3	5	4	4 1/4	4	3 3/4	14	450 CF/HR.
B04	4"	1 3/4	7	7 1/4	9	8 1/4	4	6	4	5 1/4	4 1/2	3 3/4	20	800 CF/HR.
B05	5"	2	9	9 1/2	11 1/2	9 1/2	5	7 1/2	6	6 1/2	4 3/4	3 3/4	27	1200 CF/HR.
B06	6"	2	10	11	13	10 1/2	6	8 1/2	6	7 1/2	4 3/4	3 3/4	37	1900 CF/HR.
B08	8"	2	12	14	16	12 1/2	8	10 1/2	8	9 1/2	5 3/4	3 3/4	47	4000 CF/HR.
B010	10"	2 1/4	14	17	19	14 1/2	10	12 1/2	8	11 1/2	5 3/4	3 3/4	70	7000 CF/HR.
B012	12"	2 1/4	16	20	21 3/4	16 1/2	12	15	12	13 13/16	5 3/4	3 3/4	85	12200 CF/HR.

* Nominal Size - Orifice conforms to inside diameter of 1/8" wall OD tubing.

NOTES:

1. All dimensions are given in inches.
2. 80 PSIG minimum air actuating pressure.
3. 200 PSIG maximum air actuating pressure.
4. Dry, filtered and lubricated actuating air recommended.
5. The stud bolt pattern straddles transverse centerlines.
6. Materials of construction - (standard model)
   Type 304 stainless steel, aluminum and nylon in contact with handled material.