



A KELE COMPANY

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Instruments • Valves • Controls

510

V10.2022

Name: _____

Company: _____

City: _____ State: _____

When do you need a quote? _____

When do you need the equipment on site? _____

When will you place the order? _____

Knife Gate Valve Application Datasheet

Quantity: _____

Tag #: _____

Process Conditions

Process Media: _____

Dry Solids? _____

If dry, will valve have to cut through static column? Yes No

% solids if slurry: _____

Product Selection

Valve Size: _____

Existing/Mating Flange Drilling Standard (ie: Ansi 150 Raised Face): _____

Specific Face-to-Face Dimension Required: _____

If yes, please specify: _____ inches

The valve should be installed: Between Flanges Dead End Service

The valve should be: Open Throttling Close Modulating

Valve Orientation: Vertical on Horizontal Pipe Horizontal on Vertical Pipe

Does valve need to seal in both directions?

Yes, Back Pressure: _____ PSI Max. No

Valve Body Material: Cast Iron Ductile Iron 316 SS Titanium 2205 Duplex SS Other: _____

Gate Material: 304 SS 316 SS 2205 Duplex SS Titanium Other: _____

Seal Material: Metal Nitrile EPDM Viton PTFE Polyurethane

	Min	Normal	Max	Units
Operating Temperature				
Working Pressure				
Change of Pressure Across Closed Gate				
Instrument Air Supply at Valve Location (Min.)				
Area Air Supply (Max.)				
Gravity Feed:	Air Conveyed:			

Operator/Actuator

Pneumatic Electric Hydraulic Manual Handwheel Chainwheel Ratchet Lever Spring Fail: Open Closed Specify supply pressure: _____ PSI Voltage: _____

Accessories

Solenoid Valve Proximity Switches Mechanical Limite Switches Other: _____

Positioners? Yes No

If yes: Pneumatic Electro/Pneumatic

Voltage/Area Classification for Accessories: _____

Frequency of Operation: _____ times per hour/day/week/month

Hydraulic Cylinder? Yes No

Details: _____

New or Replacement Process Valve Questionnaire

Detailed answers to the questions below will help us determine the best fit/best value solution when supplying a new or replacement valve.

Questions for Both New AND Replacement Valves

1. Describe what the valve does for a living. How does it affect the process?

2. What types of equipment are in the piping upstream of the valve?

3. What types of equipment are in the piping downstream of the valve?

4. Assessment/expectation of the valve's overall performance?

5. What is the acceptable timeframe between valve installation and maintenance or replacement?

6. What additional functionality is required?

Additional Questions for Valve Replacements

1. Describe existing valve (brand, type, model, id plate data)

2. When was it put in service?

3. How often does it cycle?

4. What is wrong with the existing valve?

