# Mark 44 Series

## Adjustable Cam Valve

The Mark 44 Adjustable Cam Valve is used to control the flow of fuel oil to a burner. It is ideally suited for process applications with frequent changes in fuel/ air mixture because the valve can easily meet new requirements by simply readjusting the cam screws.

#### **O**PERATION

A signal from a control instrument is transmitted to the operation lever via a linkage. Movement of the lever controls the cam, which in turn, opens and closes the plug to determine the flow at any given position. By adjusting the series of 19 cam screws, the flow characteristic can be modified to meet the needs of your process. The cam screws are self-locking to precisely maintain the required flow characteristic. If process conditions change, the cam screws can easily be readjusted to meet your new requirements. The valve is designed for applications where tight shutoff is not required; when required, it must be provided by other means.

#### **F**EATURES

- Maintains the precise flow characteristic for your application with the simple adjustment of a series of cam screws.
- The valve is easily readjusted in the field to meet changes in your flow requirements. No special tools are required.
- Lever is fully adjustable to accommodate the linkage in any position.
- Spring-loaded stem maintains roller end contact with the cam surface to prevent possible back-lash.
- For pressures up to 500 psi (34 bar) on fuel oils, gas, air and water.
- Standard with equal percentage flow characteristic.







Jordan Valve, a division of Richards Industries 3170 Wasson Road • Cincinnati, OH 45209 513.533.5600 • 800.543.7311 • 513.871.0105 (f) info@richardsind.com • www.jordanvalve.com

#### **S**pecifications

Line Sizes: 1/2" (DN15), 3/4" (DN20), 1" (DN25)

End Connections: Threaded (NPT, BSPT, BSPP)

Body Material: Bronze

Bonnet Material: Brass

Plug Material: Stainless Steel

Guide/Seat Material: Brass

**O-Ring:** Viton

Cam Arm (Rocker): Cast Iron

#### Actuator:

- Adjustable cam
- 19 adjustable screws
- 72° travel
- 0 to 1/2" stroke adjustable with cam screws
- Rotation: clockwise or counterclockwise (determined by screw adjustment)

#### Plug Characteristic: Equal percentage, linear

#### Cv (Kv):

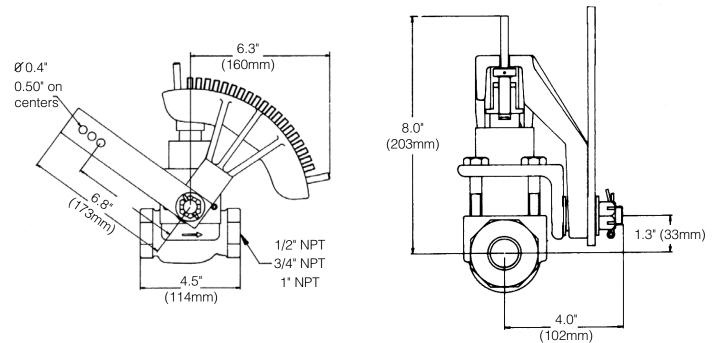
- Interchangeable 0.4 (0,35), 0.8 (0,71), 1.2 (1,1), 1.6 (1,4) (equal percentage)
- 0.43 (0,38), 0.87 (0,77), 1.3 (1,2), 1.7 (1,5) (linear)

Maximum Pressure: 500 psig @ 100°F (34,5 bar @ 37,8°C)

Maximum Temperature: 400°F @ 375 psig (204,4°C @ 25,9 bar)

Service: fuel oils, gas, air and water

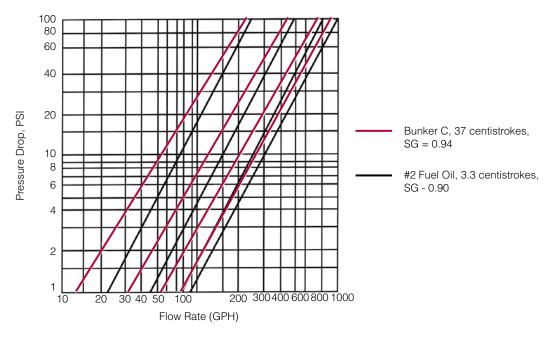




#### Notes:

- The angle/rocker assembly can be rotated in 180° increments about the bonnet.
- Total angular rocker travel is 72°.
- The adjustable stroke of the valve is between 0.000 and 0.500".
- The motor arm is adjustable in 30° increments.





### **ORDERING SCHEMATIC**

1	2		3	,	4	5	6	7
		_		/				

1	Model				
	44 Standard				
2		Size			
	050	1/2" (DN15)			
	075	3/4" (DN20)			
	100	1" (DN25)			

3	Body Material		
	BR	Bronze	

4	End Connections				
	PT	NPT			
	BT	BSPT			
	BP	BSPP			
	F5	150#FE FE			
	F3	300#FE FE			
	ZZ	Non-Standard			

5	Trim (Bonnet / O-Ring)				
	BV	Brass / Viton			
	ZZ	Non-Standard			

6	Seats					
	(	Characteristic	Cv (Kv)			
	L	Linear	1	0.40 (0,35)		
	Е	Equal Percentage	2	0.43 (0,38)		
			3	0.80 (0,71)		
			4	0.87 (0,77)		
			5	1.2 (1,1)		
			6	1.3 (1,2)		
			7	1.6 (1,4)		
			8	1.7 (1,5)		
	ZZ	Non-Standard				

7	Actuator				
	SD	Standard			
	ZZ	Non-Standard			

