

JORDAN APPLICATIONS



APPLICATIONS

- How many applications are there?
 - **-**4
 - What are they?
 - Solids
 - Liquids
 - Gas
 - Steam



APPLICATIONS

- Utilities are our "Sweet Spot"
 - Steam
 - Industrial Gases
 - Air
 - Water
 - Lube Oil
- We can do process, too



APPLICATIONS

- The "Jordan Box" is roughly 6 X 6 X 6
 - 6" in diameter
 - 600 psi
 - -600 F



REQUIRED INFORMATION

Type of control Size Material Diaphragm		•		JORE	DANVAL	νE
Diapinagin			Units			
Spring Range						
Seat Material						
Cv			ı			
Model						
Proce	ss Informa	ition]	
Media						
Туре	Liquid					
Spec	ific Gravity					
Molecu	ılar Wieght					
	cosity (cP)					
Te	emperature					
	Minimum	Normal	Maximum	Units	ı	
Inlet pressure						
Outlet Pressure						
Flowrates						
ا ـ ا	1	Units	l			
Set Point						

KEY QUESTION: What is the end user / customer trying to do with the valve?



SELF OPERATED REGULATORS

- Simplest type force balance mechanism
- Low price
 - Steam
 - Liquids
 - Oil
 - Gas
 - Chemicals



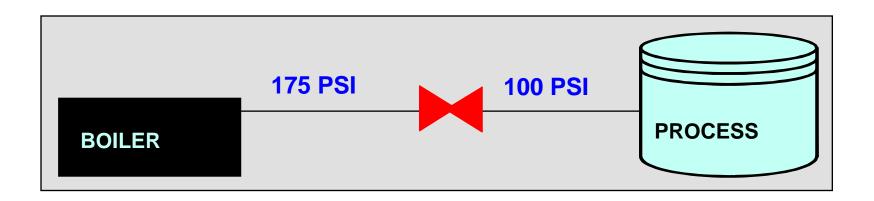
PILOT OPERATED REGULATORS

- Greater accuracy
- Wider Rangeability
 - Steam
 - Liquids
 - Oil
 - Gas
 - Chemicals



PRV APPLICATION

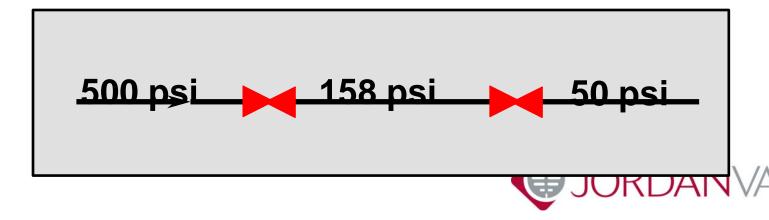
 A customer needs to reduce pressure on a steam line from his boiler. The steam pressure off the boiler is 175 psi, and he wants to reduce it to 100 psi.





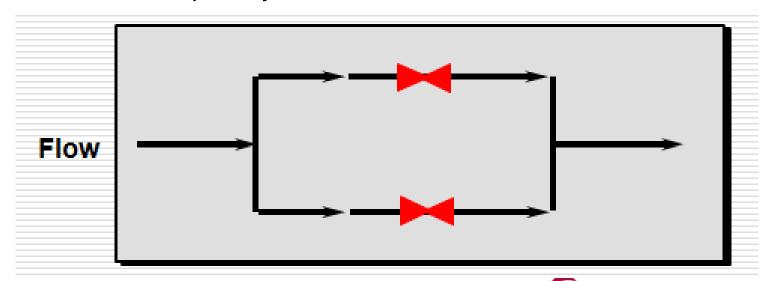
PRESSURE REGULATORS IN SERIES

- To handle high pressure drops
- First determine intermediate setpoint.
- A basic formula can be used to determine this:
 - P2 = square root of (P1xP3)
 - P2 = square root of (500x50) = 158 psi
- In most cases your second valve will require a larger Cv to handle the lower pressure media.
- Note: 2nd valve needs to rate to 500 psi inlet.



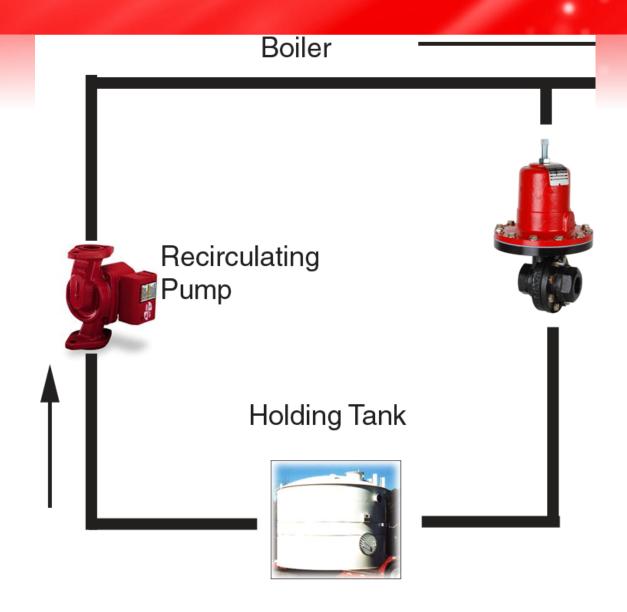
REGULATORS IN PARALLEL

- When 2 greatly different flow rates are required.
- Regulators would vary greatly in Cv & possibly size.
- Set the smaller regulator a few psi above the larger regulator. This
 way the larger valve will only open when the capacity needed
 exceeds the capability of the smaller valve.

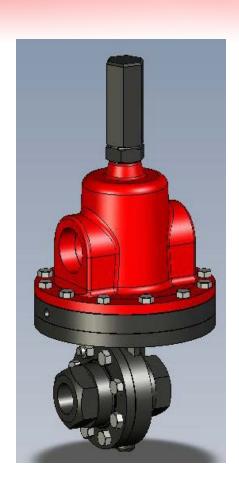




MK50 APPLICATION



MK63/64 DIFFERENTIAL PRESSURE REGULATORS



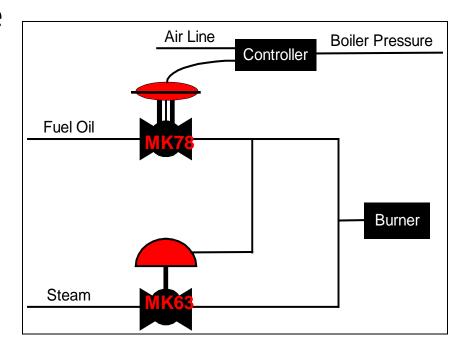
Maintains constant ΔP between valve outlet and signal pressure loaded on the diaphragm.

- •1/2" to 2" DI, BRZ, CS & SS
- Threaded or Flanged
- Available with flow-through dome
 (CDF) for controlling atomizing steam or air for fuel oil atomization (burners)
- Separated double diaphragm



STEAM ATOMIZATION

- Steam and oil are combined, forming fine particles.
- Oil is sprayed into the burner and combusts.
- Maintains a constant differential between the steam and oil.





JORDAN TEMPERATURE REGULATORS

 Self-operated devices in which the energy to position the valve closure member is provided by changes in temperature energy of the controlled variable.



MARK 80 TEMPERATURE REGULATOR

- Set points from -40° +450°F
- 1/4" 2.0"
- CV's up to 70 (801/802)
- 8' std. capillary; up to 100'
- High flow version available
- For tank heating, heat exchangers, steam tracing, air drying products, steam drain cooling, and regulating cooling fluids.
- Accurate to +/- 2%
- 10°F span of control





WHAT INDUSTRIES USE TEMPERATURE REGULATORS?

- Oil companies
- Chemical companies
- Tank farms
- Steel mills
- Pulp and paper plants

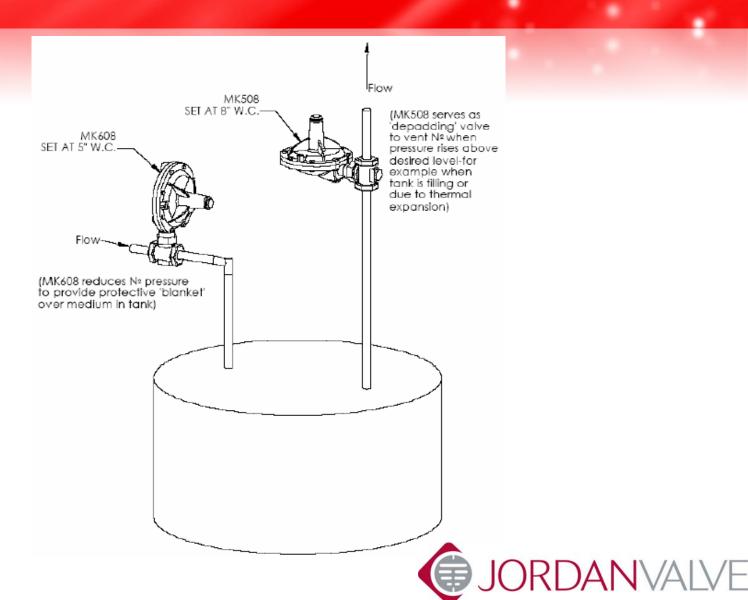


TEMPERATURE REGULATORS

- Tank heating
- Heat exchangers
- Steam tracing
- Air drying products
- Steam drain cooling
- Regulating cooling fluids for delicate system components



TANK BLANKETING



WEBSITE

www.jordanvalve.com

