

# SPF EQUIPMENT UPDATE

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The comments and opinions in this presentation do not necessarily represent or reflect those of SPFA.

# Right Machine for the Right Job

- Air, Electric, Electric/Hydraulic

- Air

- Lowest up front cost
- Low output
- Easy to operate
- Favored for in-plant applications
- Large volume of air required: expensive considering electric cost vs machine output



# Right Machine for the Right Job

- Electric
  - Good Cost/Value for output level
  - Great for residential use
  - Clean electricity required
  - Easy to operate
  - Lightweight and small space required
  - Built-in alert system



# Right Machine for the Right Job

- Electric/Hydraulic
  - ▣ Greatest upfront cost
  - ▣ Residential and Commercial use (Roofs & Tank insulation)
  - ▣ Heavy Duty components
  - ▣ Slower cycling for reduced seal wear
  - ▣ High flow rate capability
  - ▣ Non traditional (1:1) ratios capable



# Right Machine for the Right Job

**Questions about how to pick the right machine?**



# Right Gun for the Right Job

## □ Mechanical Purge

- Original Technology
- Requires solvent flushing upon Shutdown
- Mix module “Adjustable”
- Valving rod adjustment required
- Tip/disc used for additional mixing



# Right Gun for the Right Job

## □ Air Purge

- Most popular
- Less maintenance
- Steel mix chamber
- More user friendly for the novice
- Requires “dry” air



# Right Gun for the Right Job



**Questions about what type of gun to choose?**





# Proper “Safe” Start-up and Shutdown

- ❑ Put on Personal Protective Equipment (PPE)
- ❑ Inspect all equipment wiring for exposure
- ❑ Turn Main Power Circuit Breaker to machine OFF before starting generator or connecting to main power source
- ❑ Turn hose heat ON, wait until target temperature is reached
- ❑ Turn ON A & B primary heaters
- ❑ Turn ON proportioner pump driver (air/electric)



# Proper “Safe” Gun gun Use

- Always wear PPE when working with spray guns
- Always insure that gun safety mechanism is on while handling gun
- Always relieve ALL chemical pressure from gun before servicing
- Keep all body parts away from front of gun while attached to hoses
- NEVER point gun at self or another person
- Know emergency procedures if “injected”



# Care and Maintenance of SPF Equipment

- Proper electrical requirements should be met (see manufacturers recommendations)
- Insure proper ventilation of machine
- Protect equipment from the elements: rain, snow, freezing temps.
- Newer technology on today's equipment decreases time spent on maintenance
- Maintenance is still critical



# Maintenance of Equipment

- Use of PPE is Mandatory
- Relieve pressure before any maintenance is performed
- Inspect pump lube daily and change (if necessary)
- Check all fluid connections - before and after start-up for leakage – repair ALL leaks
- Follow manufacturers prescribed maintenance schedules (daily, weekly, monthly, yearly)

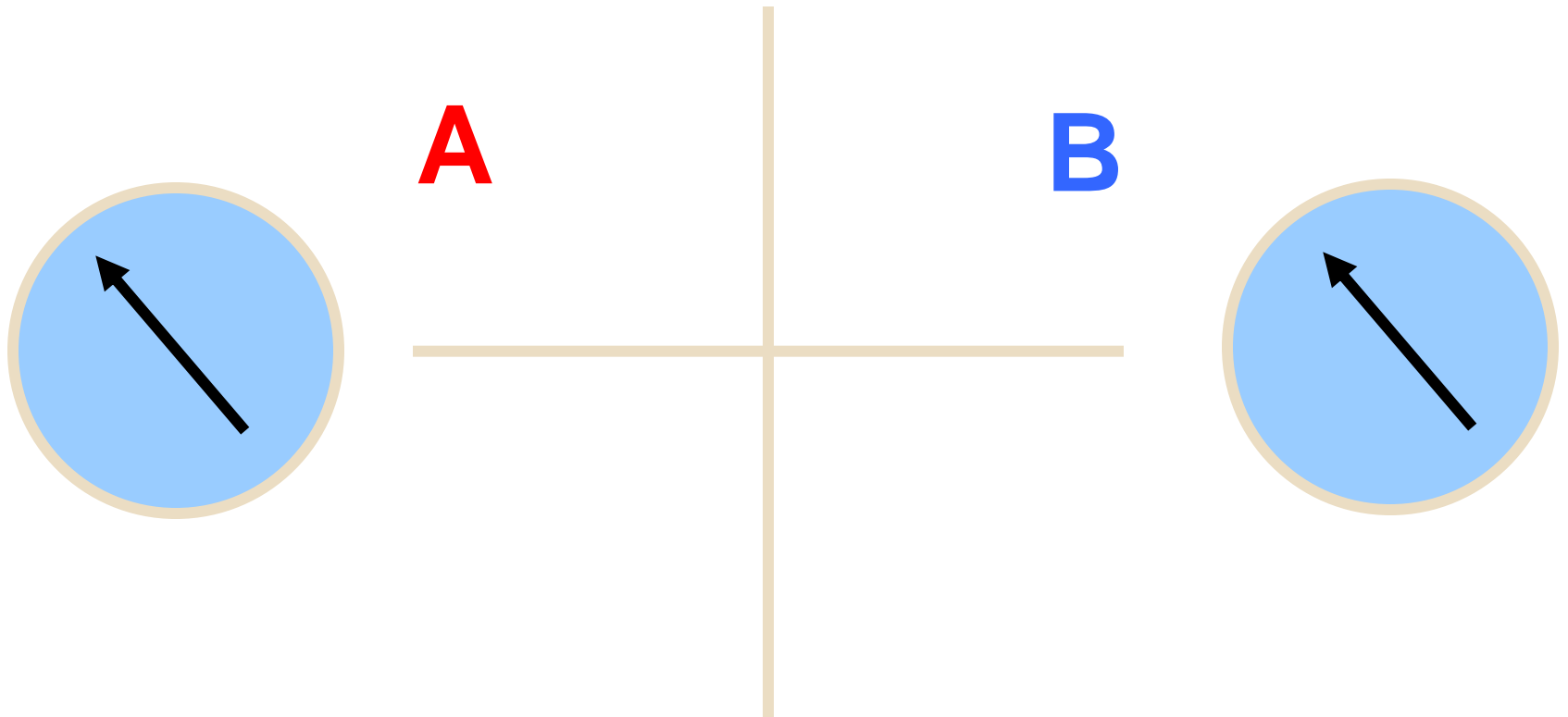


# TROUBLESHOOTING EQUIPMENT



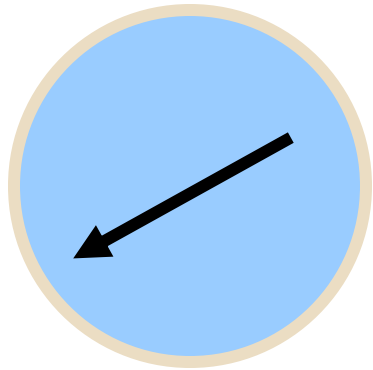
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# 3 Step Troubleshooting



**OUTPUT IS NORMAL**

# Know your 4 Quadrants



**Cavitation?  
Restriction?**

**A**

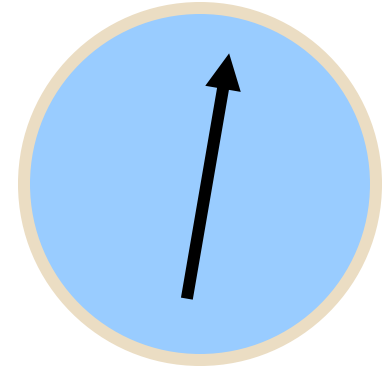
**1**

**2**

**B**

**3**

**4**



**Restriction?  
Cavitation?**



**IMPROPER CHEMICAL  
MIX**

# STEP 1

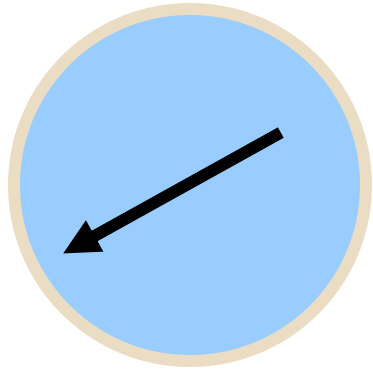
**Before looking at the gauges, you must know what chemical is coming out of your gun**



**A or B?**



# STEP 2



If gauge is below normal, the problem lies in quadrant 1 (supply)

**A**

**1**

**2**

**B**

**3**

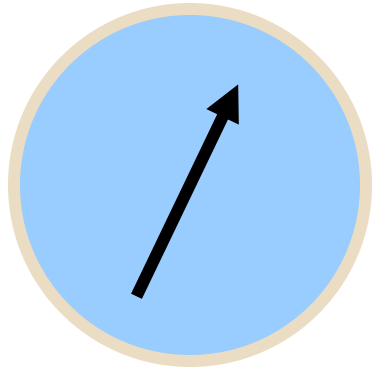
**4**

Cover this gauge if this chemical is coming out of the gun



**LACKING A**

# STEP 2



If gauge is above normal, the problem lies in quadrant **3** (hose/gun)

**A**

**1**

**2**

**3**

**4**

**B**

Cover this gauge if this chemical is coming out of the gun



**LACKING A**

# STEP 2

**A**

**B**

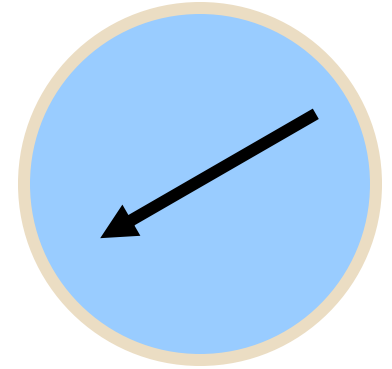
**1**

**2**

**3**

**4**

Cover this gauge if this chemical is coming out of the gun



If gauge is above normal, the problem lies in quadrant **2** (supply)



**LACKING B**

# STEP 2

Cover this gauge if this chemical is coming out of the gun

**A**

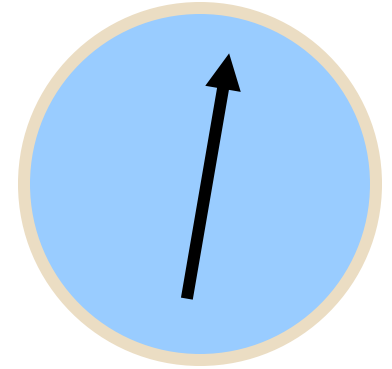
**1**

**2**

**B**

**3**

**4**

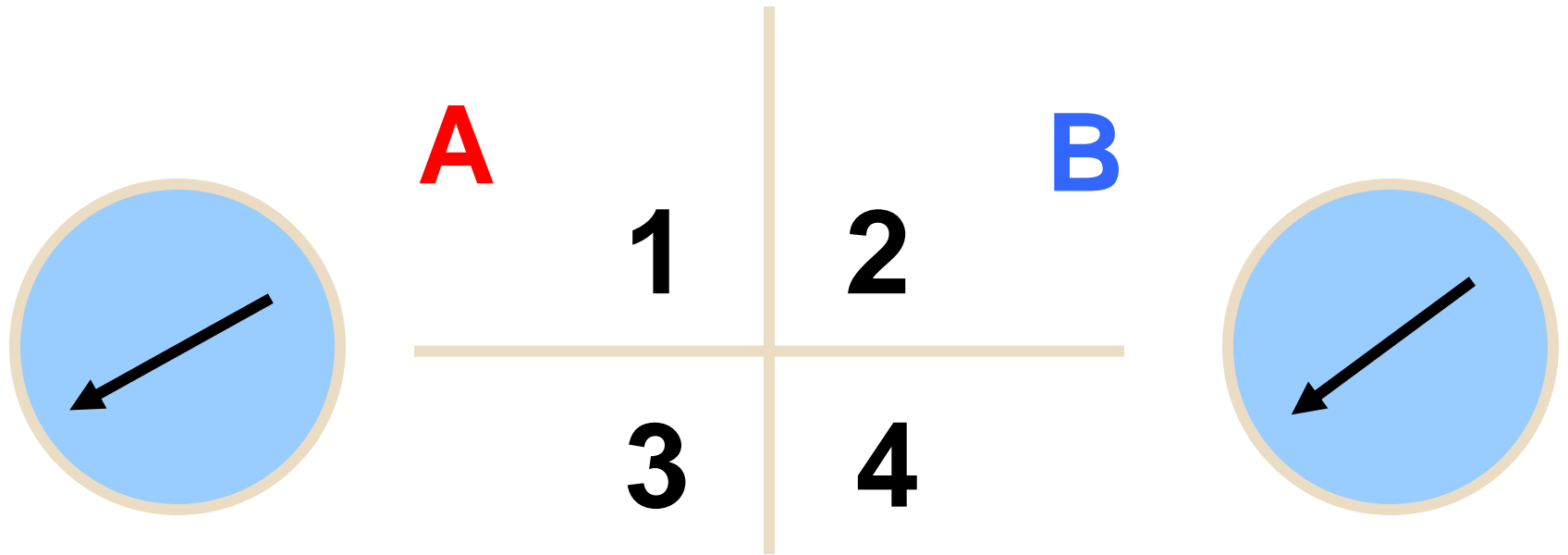


If gauge is above normal, the problem lies in quadrant **4** (hose/gun)



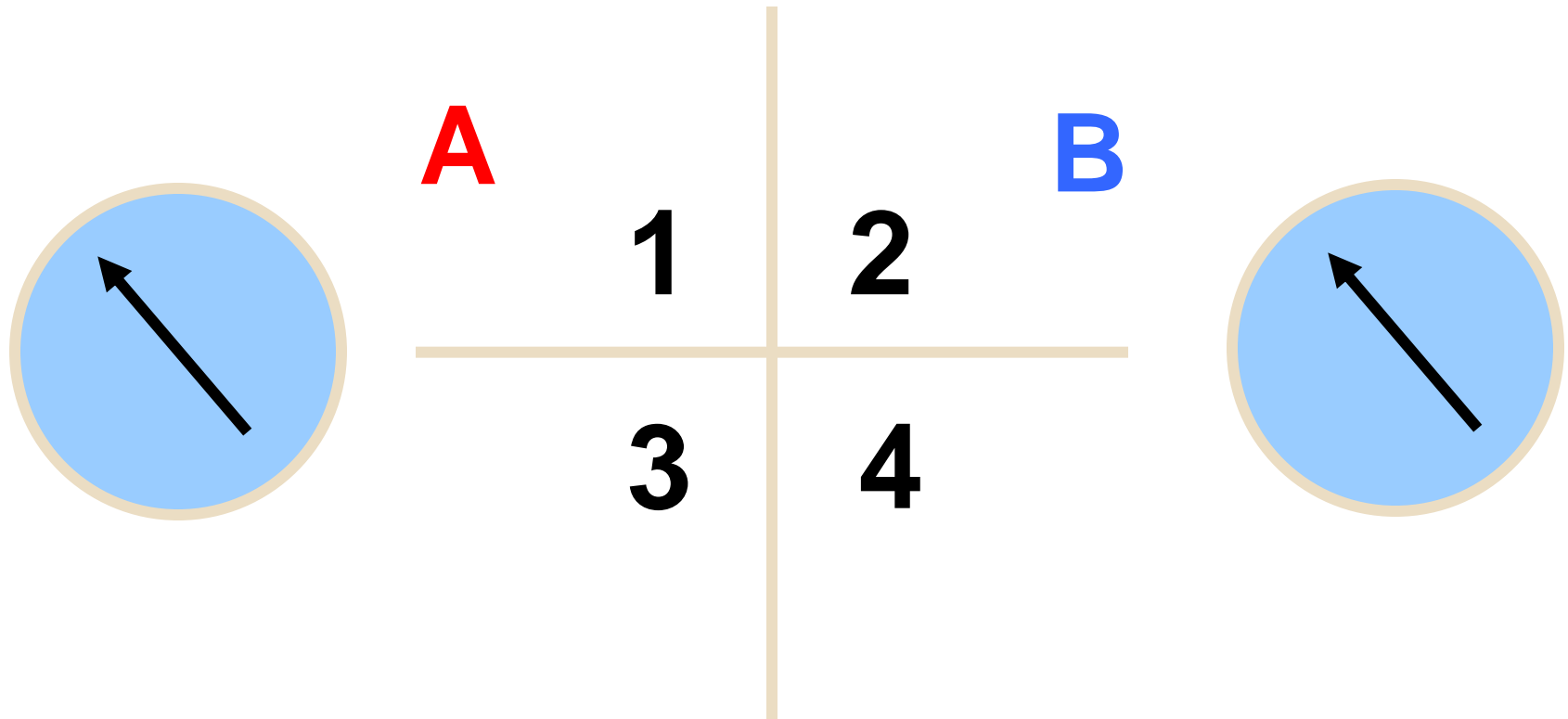
**LACKING B**

# STEP 3



**REPAIR PROPER  
QUADRANT OF  
EQUIPMENT!**

# Know What Material Is Lacking!



**GET BACK TO SPRAYING GOOD FOAM!**



**THANK YOU!!**

