

# PRESSURE REGULATORS

**QUICK RESPONSE TO PRESSURE VARIATIONS ASSURES CONSTANT OUTLET PRESSURE**



**3/4" LOW FLOW**



**3/4"**



**1 1/2"**



**2" X 4**



**3" X 10**



**2" X 6**

## PRODUCT ADVANTAGES

- Instant response to variations in pressure assures outlet pressure will remain constant regardless of inlet pressure.
- Non-corrosive, high quality plastic and brass bodies withstand commonly used fertilizers and chemicals.
- Sealed regulating unit with stainless steel spring and a screw are field replaceable and easy to maintain.
- Built-in operating indicator visually shows when proper outlet pressure is achieved (except 3/4" low flow).
- No leakage due to tight seal from rubber diaphragm.
- Flow ranges from .25 to 175 GPM.

## APPLICATIONS

- Drip and sprinkler irrigation systems

## SPECIFICATIONS

- Maximum Operating Pressure: 145 psi
- Available Pre-Set Pressures: 9, 12, 15, 20, 25, 30, 35, 43, 50, 57 and 65 psi
- 3/4" Low Flow Pre-Set Pressures: 15, 20, 25, 35 and 42 psi
- Connections:
  - 3/4" - Female x Male Threaded
  - 1 1/2" - Male Threaded
  - 2" x 4 - Male Threaded
  - 2" x 6 - Female Threaded
  - 3" x 10 = Female Threaded
- 3/4" Low Flow Connections:
  - Inline Female x Female Threaded
- 3/4" Low Flow Pressure Regulator: Sealed unit is non-replaceable

## FLOW RANGE & REGULATING UNITS

| MODEL         | FLOW RANGE (GPM) | REGULATING UNITS |
|---------------|------------------|------------------|
| 3/4" LOW FLOW | .25 - 4.4        | -                |
| 3/4"          | 4.5 - 17.5       | 1                |
| 1 1/2"        | 11 - 35          | 2                |
| 2" X 4        | 22 - 70          | 4                |
| 2" X 6        | 33 - 105.6       | 6                |
| 3" X 10       | 35 - 175         | 10               |

## PRESSURE REGULATING UNIT



It's quick and simple to change pressures with a one-piece sealed pressure regulating unit. Each pressure option has a different regulating unit and each regulating unit can be used in any size pressure regulator body.

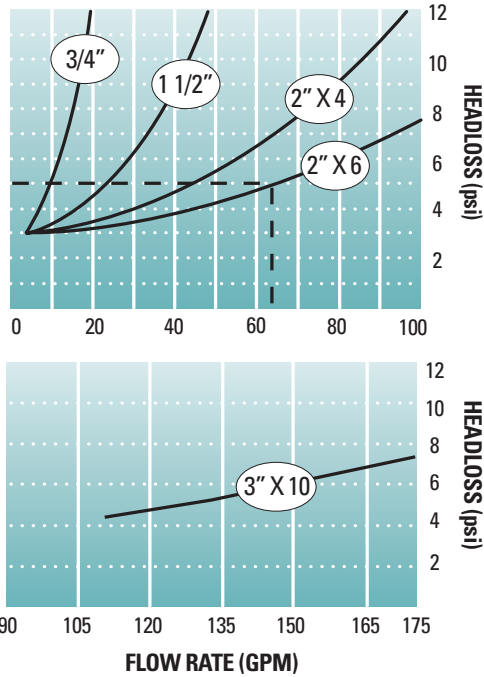


# PRESSURE REGULATORS

## ORDERING INFORMATION

| PRESSURE | 3/4" LOW FLOW MODEL NUMBERS | 3/4" MODEL NUMBERS | 1 1/2" MODEL NUMBERS | 2" X 4 MODEL NUMBERS | 2" X 6 MODEL NUMBERS | 3" X 10 MODEL NUMBERS |
|----------|-----------------------------|--------------------|----------------------|----------------------|----------------------|-----------------------|
| 9 psi    | -                           | 32PRV.75-09V2K     | 32PRV1.5-09V2K       | 32PRV2-409V2KPL      | 32PRV2-609V2K        | 32PRV3-1009V2K        |
| 12 psi   | -                           | 32PRV.75-12V2K     | 32PRV1.5-12V2K       | 32PRV2-412V2KPL      | 32PRV2-612V2K        | 32PRV3-1012V2K        |
| 15 psi   | 32PRV.75-LF15V2             | 32PRV.75-15V2K     | 32PRV1.5-15V2K       | 32PRV2-415V2KPL      | 32PRV2-615V2K        | 32PRV3-1015V2K        |
| 20 psi   | 32PRV.75-LF20V2             | 32PRV.75-20V2K     | 32PRV1.5-20V2K       | 32PRV2-420V2KPL      | 32PRV2-620V2K        | 32PRV3-1020V2K        |
| 25 psi   | 32PRV.75-LF25V2             | 32PRV.75-25V2K     | 32PRV1.5-25V2K       | 32PRV2-425V2KPL      | 32PRV2-625V2K        | 32PRV3-1025V2K        |
| 30 psi   | -                           | 32PRV.75-30V2K     | 32PRV1.5-30V2K       | 32PRV2-430V2KPL      | 32PRV2-630V2K        | 32PRV3-1030V2K        |
| 35 psi   | 32PRV.75-LF35V2             | 32PRV.75-35V2K     | 32PRV1.5-35V2K       | 32PRV2-435V2KPL      | 32PRV2-635V2K        | 32PRV3-1035V2K        |
| 43 psi   | 32PRV.75-LF42V2             | 32PRV.75-43V2K     | 32PRV1.5-43V2K       | 32PRV2-443V2KPL      | 32PRV2-643V2K        | 32PRV3-1043V2K        |
| 50 psi   | -                           | 32PRV.75-50V2K     | 32PRV1.5-50V2K       | 32PRV2-450V2KPL      | 32PRV2-650V2K        | 32PRV3-1050V2K        |
| 57 psi   | -                           | -                  | 32PRV1.5-57V2K       | 32PRV2-457V2KPL      | 32PRV2-657V2K        | 32PRV3-1057V2K        |
| 65 psi   | -                           | 32PRV.75-65V2K     | 32PRV.75-65V2K       | 32PRV2-465V2KPL      | 32PRV2-665V2K        | 32PRV3-1065V2K        |

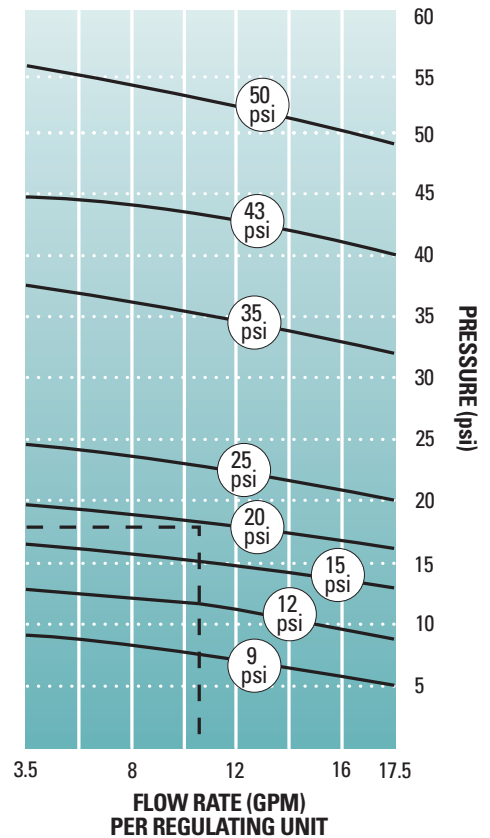
### FLOW RATE VS. PRESSURE LOSS



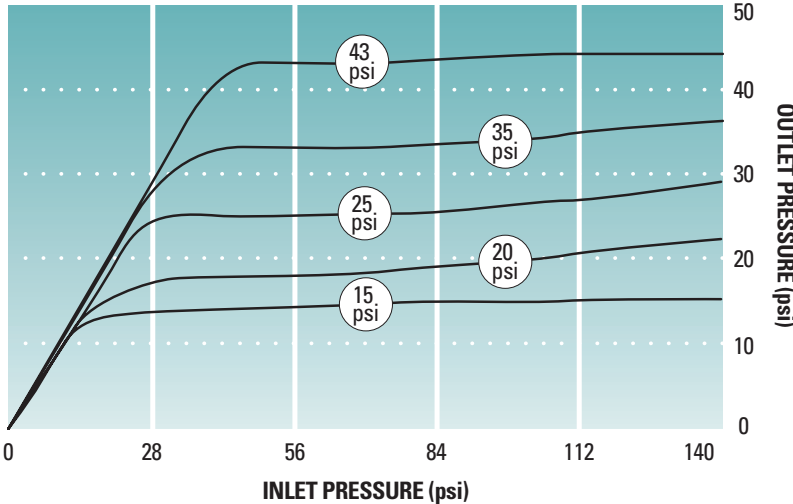
### EXAMPLE FOR DETERMINING INLET PRESSURE

- Given Flow Rate = 63 GPM  
Nominal Required Pressure = 20 psi
- Using Pressure Regulator Model 2" x 6 will result in 10.5 GPM per regulating unit.
- 10.5 GPM per regulating unit will result in an output pressure of 18 psi. (See chart at right)
- Headloss of 2" x 6 Pressure Regulator at 63 GPM is 5 psi. (See chart at left)
- Design pressure at inlet of Pressure Regulator should be 18 + 5 = 23 psi

### REGULATED PRESSURE VS. FLOW RATE



### 3/4" LOW FLOW - OUTLET VS. INLET PRESSURE @ 1.3 GPM



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