KPRV AND KBPV FEATURES

KPRV AND KBPV CHEMICAL FEED PUMP RELIEF VALVES

OVERVIEW

The KENCO KBPV Back Pressure Valves are two-way relief valves designed to keep a constant pressure in the discharge lines of a chemical feed pump system. Constant pressure on the discharge side of the chemical feed (metering) pump prevents siphoning, ensuring proper operation of the pump and an accurate chemical dosage rate. KENCO KPRV Pressure Relief Valves are similar in design to KBPV Valves but are three-way valves that allow unrestricted flow through two ports and a third relief port designed to be connected back to tank. This configuration provides protection from over pressurization of the chemical feed systems lines and components by relieving the system pressure back to tank through the third port when the system pressure exceeds the KPRV’s set pressure.

KPRV AND KBPV FEATURES

- Relief pressure (Factory set to 50 psi) can be field adjusted from 15 psi to 150 psi.
- ¼”, ½”, ¾” and 1” port sizes available in either female NPT threads or socket weld connections.
- PVC and wetted 316 stainless steel materials available.
- Long life PTFE Lined EPDM Diaphragm
**KPRV/KBPV SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MAX FLOW RATE @ 150 PSI AND SET PRESSURE = 50 PSI</th>
<th>DIMENSIONS (INCHES)</th>
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<tbody>
<tr>
<td></td>
<td>PULSATING CONTINUOUS A B C</td>
<td></td>
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<tr>
<td>1/4&quot;</td>
<td>200 USGPH 10 USGPM 3.53 0.75 2.34</td>
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<tr>
<td>1/2&quot;</td>
<td>325 USGPH 17 USGPM 5.88 1.25 3.46</td>
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<tr>
<td>3/4&quot;</td>
<td>365 USGPH 19 USGPM 5.88 1.25 3.46</td>
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<tr>
<td>1&quot;</td>
<td>465 USGPH 24 USGPM 5.88 1.25 3.46</td>
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**CONNECTION TYPES**
NPT, SOCKET WELD

**CONNECTION SIZES**
1/4", 1/2", 3/4", 1"

**BODY MATERIAL**
PVC, 316 SS

**SPRING CASE MATERIAL**
PVC

**DIAPHRAGM MATERIAL**
TEFLON LINED EPDM

**PRESSURE ADJUSTMENT RANGE**
15-150 PSI

**MAXIMUM TEMPERATURE**
140° F

**MAXIMUM OPERATING PRESSURE**
375 PSI @ 70° F

**ORDERING GUIDE**

- **Valve Type:**
  - KPRV = Pressure Relief Valve
  - KBPV = Back Pressure Valve

- **Connection Type:**
  - T = NPT (Female)
  - S = Socket Weld

- **Connection Size:**
  - 25 = 1/4"
  - 50 = 1/2"
  - 75 = 3/4"
  - 10 = 1"

- **Body Material (Wetted):**
  - P = PVC
  - S6 = 316 Stainless Steel

- **Spring Case Material (Non-Wetted):**
  - P = PVC

- **Diaphragm Material:**
  - TE = PTFE (wetted) / EPDM (non-wetted)

**Note:** Other materials available upon request.