KUNKLE SAFETY VALVE PRODUCTS
SERIES 6000

ASME Section I and VIII, Steam, “V” and “UV,” ASME Section VIII, Air/Gas “UV” National Board Certified.
Models 6933, 6934, and 6935 are ASME Section IV, “Steam” “HV” National Board Certified. PED certified for non-hazardous gas.

Model descriptions


Model 6021: Same as model 6010 with Teflon® (PFA) disc insert. For exceptional leak-free performance (use on steam only).

Model 6030: Same as model 6010 except Stainless Steel (SS) trim (nozzle and disc). Available with O-ring seats for exceptional leak-free performance.

Model 6182: Top outlet. Full nozzle design with bronze/brass trim. O-ring seat available for exceptional leak-free performance.

Model 6121: Same as model 6182 with Teflon® (PFA) disc insert. For exceptional non-leak performance (use on steam only).

Model 6130: Same as model 6182 except SS trim (nozzle and disc). O-ring seat available for exceptional leak-free performance.

Model 6186: Top outlet. Full nozzle design with bronze/brass trim. 150 psig [10.3 barg] maximum set pressure. Replaces Model 86 (original equipment only). For air service only.

Model 6283: Over-sized side outlet. Full nozzle design bronze/brass trim.

Model 6221: Same as model 6283 with Teflon® (PFA) disc insert. For exceptional leak-free performance (use on steam only).

Model 6230: Same as model 6283 except SS trim (nozzle and disc).

Model 6933: Same as model 6010 except certified for ASME code Section IV. Low pressure steam heating boilers set at 15 psig [1.0 barg] only.

Model 6934: Same as model 6021 except certified for ASME code Section IV. Low pressure steam heating boilers set at 15 psig [1.0 barg] only.

Model 6935: Same as model 6030 except certified for ASME code Section IV. Low pressure steam heating boilers set at 15 psig [1.0 barg] only.

Features

• O-ring seats available for exceptional leak-free performance, reduced maintenance cost, multiple cycles with tight shut-off, improved seating integrity.

• Wide hex on valve nozzle provides wrenching service clearance for easy installation.

• Dual control rings offer easy adjustability for precise opening with minimum pre-open or simmer and exact blowdown control.

• Pivot between disc and spring corrects misalignment and compensates for spring side thrust.

• Grooved piston model disc reduces sliding area and friction.

• Each Kunkle valve is tested and inspected for pressure setting and leakage.

Note:
1. Resilient seats determine temperature range (see page 11).
Specifications - Models 6010, 6021, 6182, 6283, 6221, 6030, 6130 and 6230

Pressure and Temperature Limits

Models 6010, 6021, 6182, 6283, 6221
Steam Service
3 to 250 psig [0.2 to 17.2 barg] 
-60°F to 406°F [-51°C to 208°C]

Air/Gas Service
3 to 300 psig [0.2 to 20.7 barg] 
-60°F to 406°F [-51°C to 208°C]

Models 6030, 6130, 6230
Steam and Air/Gas Service
3 to 300 psig [0.2 to 20.7 barg] 
-60°F to 425°F [-51°C to 218°C]

Applications

- Steam Boilers and Generators.
- Air/Gas Compressors - reciprocating or rotary - portable or stationary, intercoolers and aftercoolers.
- Pressure Vessels - containing steam, air or non-hazardous gas. Including tanks, receivers, sterilizers and autoclaves.
- Pressure Reducing Stations - protection of the discharge or low pressure side of system.

Parts and Materials

Models 6010, 6030, 6283, 6230, 6933, 6935

Models 6010, 6030, 6182, 6130, 6186, 6283, 6230, 6933, 6935
Optional Soft Seat

Teflon® Seat Configuration

Top Outlet Configuration
## Parts and Materials

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### Notes:

1. Models 6021, 6121, 6221 and 6934 Teflon®, optional O-ring seat available for all others.
2. Section IV only.
3. Models 6030, 6130, 6230 and 6935 are SS SA351-CF8.
4. Models 6030, 6130, 6230 and 6935 are SS SA479-304 (D through H Orifice) or SS SA479-316 (J Orifice).
5. Models 6030, 6130, 6230 and 6935 are SS SA479-304.

6. Variation 02 (vibration dampening) only.
7. Soft seat “D”, “E” and “F” orifice require special warn ring (notch on O.D. of fins).
8. Applies only to elastomer soft seat options.
9. Applies only to gag options. Remove when valve is in service. Failure to remove gag screw may cause serious damage to equipment, person injury, and death.
## Specifications

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<th>Model Number</th>
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*Dimensions are for reference only.*

**Notes:**

1. Replace asterisks with desired model number. Replace # with desired seat material.
2. Model 6030 and 6935 available only 1/2 x 3/4” [12.7 x 19 mm], 3/4 x 1” [19 x 25.4 mm], 1 x 1 1/4” [25.4 x 31.8 mm], 1 1/2 x 1 1/2” [38 x 38 mm], 1 1/2 x 2” [38 x 51 mm] and 2 x 2 1/2” [51 x 64 mm].
3. Models 6933, 6934 and 6935 have same dimensions as model 6010.
4. 2 1/4” for BSP [57].
5. 7 3/8” for BSP [192.5].
## Capacities

### Non-code¹ and ASME Section VIII Air (U.S., SCFM)

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1. No code stamp or "NB" on nameplate below 15 psig set.
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**Note:**

1. No code stamp or "NB" on nameplate below 1.0 barg set.
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**Note:**

1. No code stamp or “NB” on nameplate below 15 psig set.

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1. Non-code¹ and ASME Section VIII Steam (U.S., lb/h)
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Service Recommendations for Series 6000 Resilient Seat/Seal Materials

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<thead>
<tr>
<th>Seat/Seal Materials</th>
<th>Service Recommendation</th>
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<tr>
<td>Viton® A (-15 to 400°F [-26 to 204°C])</td>
<td>Air and Gas</td>
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<tr>
<td>Ethylene Propylene (-60 to 250°F [-51 to 121°C])</td>
<td>Steam</td>
</tr>
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<td>Teflon® (-320 to 500°F [-196 to 260°C])</td>
<td>Steam</td>
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Specifications

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<tr>
<th>ASME Section IV Steam, lb/h [kg/h] - Models 6933, 6934 and 6935</th>
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<tbody>
<tr>
<td>Set Pressure [psig] [barg]</td>
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### Ordering Information

**ASME Section I and VIII, Steam, ASME Section VIII, Air/Gas National Board Certified. Models 6933, 6934, 6935 ASME Section IV, National Board Certified**

<table>
<thead>
<tr>
<th>Model Number/Order Guide</th>
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<tbody>
<tr>
<td><strong>Model Number Position</strong></td>
</tr>
<tr>
<td><strong>Example</strong></td>
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</tbody>
</table>

**Model**

- 6010 6130 6230
- 6021 6186 6933
- 6030 6283 6934
- 6182 6221 6935
- 6121

**Orifice**

- D - G
- E - H
- F - J

**Inlet Size**

- C - 1/2” [12.7]
- D - 3/4” [19.0]
- E - 1” [25.4]
- F - 1 1/4” [31.8]

**Seat Material**

- M - Metal
- T - Teflon® (Models 6021, 6121, 6221, 6934 only)
- V - Viton®

**Variation (01 to 99)**

- 01 - Plain lever
- 02 - Plain lever with vibration dampener
- 03 - Plain lever with gag
- 60 - BSP Threads

**Design Revision**

Indicates non-interchangeable revision.
Dash [-] if original design.

**Valve Service**

- A - Steam ASME Section I
- K - Air/Gas ASME Section VIII
- L - Steam ASME Section VIII
- G - Steam ASME Section IV (Models 6933, 6934, 6935 only)
- P - Steam, Non-code
- N - Air, Non-code

**Spring Material**

- M - SS

**Set Pressure**

0015 - 15 psig [1.0 barg] only for Models 6933, 6934, 6935