MSS SP-80 GATE VALVE
UNION BONNET, THREADED ENDS
1/4” - 3” (6 - 70mm) CLASSES 200 & 300
BRONZE RISING STEM

STANDARD MATERIALS

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIALS</th>
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1. On soft seated valves only.
2. Sizes 2½” and 3” use a bolted bonnet design.

Design Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Applicable Specification</th>
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<tr>
<td>Pressure - temperature ratings</td>
<td>MSS SP-80</td>
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<td>General valve design</td>
<td>MSS SP-80</td>
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<td>Thread design</td>
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DESIGN FEATURES:
- Renewable solid wedges.
- Integral seats.
- Stems are rotating / rising design.
- Available soft-seated for sizes 2”, 2½”, and 3”.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.
- Valves are specially cleaned and processed for oxygen or cryogenic service and are then sealed to prevent contamination.
- Bonnet chamber ventilation, in order to prevent excess pressure build up caused by trapped cryogenic liquids, is available upon request.
- Valves available with non-extended bonnets. See Bronze and Iron Catalog for dimensions and weights of non-extended design.
## Gate Valves (Classes 200 & 300)

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<th>E</th>
<th>X (1)</th>
<th>WT</th>
<th>C_v</th>
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(1) Other extensions available. Consult Powell Engineering.

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**C** = Packing sleeve to top open  
**X** = Center to top of stuffing box (Std)  
**WT** = Weight  
**C_v** = Flow Coefficient