

# Title: VALVE APPLICATION DESIGN FACTORS

Minimum Design Factor  $F = 1.25$

## Ball Valve Seat Material Correction Factors (S)

Glass filled PTFE  $S = 1.5$   
Carbon filled PTFE  $S = 1.5$   
Peek  $S = 2.5$

## Medium Correction Factors (M)

Dry gas  $M = 1.3$   
Slurry/pulp/paste  $M = 1.5$   
Powder/abrasive content  $M = 1.5$

## Line Temperature Correction Factors (T)

-100°C to 0°C  $T = 1 - ([\text{Line temp (°C)}/100] \times 3.0)$   
0°C to 100°C  $T = 1.0$   
100°C to 200°C  $T = ([\text{Line temp(°C)}/100] \times 1.5) - 0.5$

## Operating Frequency Correction Factors (O)

At least once a week  $O = 1.0$   
At least once a month  $O = 1.5$   
Once a year - See shut down duty

## Duty Correction Factors (D)

General purpose  $D = 1.0$   
Critical application  $D = 1.5$   
Emergency shutdown  $D = 2.0$

Maximum Design Factor  $(F \times S \times M \times T \times O \times D) = 3.0$

Check valve stem torque capability or consult Engineering Manager if overall design factor exceeds 3.0.

Issue	Signed	Date	<b>KINETROL</b> Trading Estate Farnham Surrey England	Doc.No. TD68
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