



SINGLE REDUCTION MODEL NUMBER SYSTEM



LEESON 800 Series Gear Reducer Model Number Nomenclature

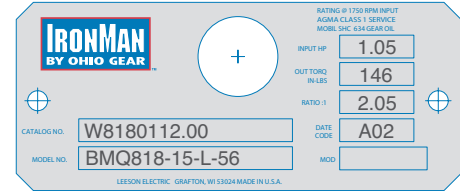
All stock and custom 800 series reducers are identified by a model number. The model number appears on the nameplate and describes pertinent features of the reducer. An example follows, along with a listing of the various letters and positions used.

NOTE: All reducers also have a catalog number—for example W8130001. Reducers and renewal parts should be ordered by catalog number. If a stock reducer has been factory modified by the addition of an optional base for example, the modification number T818, for example, is stamped in the blank column of the nameplate. Accessories that are field installed will not be noted on the nameplate.

Catalog numbers 3000 and higher (for example, W8133000) are WASHGUARD® reducers for washdown service.

Catalog numbers 5000 (for example, W8135000) and higher are custom reducers manufactured for a specific application. The machinery or equipment manufacturer should be contacted for replacement reducers. Renewal parts can be ordered from LEESON by catalog number.

TYPICAL NAMEPLATE



<p>Style</p> <p>SOLID OUTPUT SHAFT BMQ – Motorized, Quill Input BM – Motorized, Flexible Coupling Input B – Non-Flanged See pages 6 & 7 for other styles.</p> <p>W prefix; i.e. WBMQ denotes WASHDOWN Reducer S prefix; i.e. SBMQ denotes Stainless Steel Reducer</p> <p>HOLLOW OUTPUT SHAFT HMQ – Motorized, Quill Input HM – Motorized, Flexible Coupling Input H – Non-Flanged See pages 8 & 9 for other styles.</p>	<p>Series</p> <p>CAST IRON 800 SERIES CENTER DISTANCES</p> <table border="1"> <thead> <tr> <th>Series</th> <th>Center Distance (Inches)</th> </tr> </thead> <tbody> <tr><td>813</td><td>1.33</td></tr> <tr><td>815</td><td>1.50</td></tr> <tr><td>818</td><td>1.75</td></tr> <tr><td>821</td><td>2.06</td></tr> <tr><td>824</td><td>2.38</td></tr> <tr><td>826</td><td>2.62</td></tr> <tr><td>830</td><td>3.00</td></tr> <tr><td>832</td><td>3.25</td></tr> <tr><td>842</td><td>4.25</td></tr> <tr><td>852</td><td>5.25</td></tr> <tr><td>860</td><td>6.00</td></tr> </tbody> </table>	Series	Center Distance (Inches)	813	1.33	815	1.50	818	1.75	821	2.06	824	2.38	826	2.62	830	3.00	832	3.25	842	4.25	852	5.25	860	6.00	<p>Ratio</p> <p>STANDARD RATIOS</p> <table border="1"> <thead> <tr> <th rowspan="2">Series</th> <th rowspan="2">Center Dist.(In.)</th> <th colspan="10">RATIO : 1</th> </tr> <tr> <th>5</th> <th>7.5</th> <th>10</th> <th>15</th> <th>20</th> <th>25</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr><td>813</td><td>1.33</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>815</td><td>1.50</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>818</td><td>1.75</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>821</td><td>2.06</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>824</td><td>2.38</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>826</td><td>2.62</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>830</td><td>3.00</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>832</td><td>3.25</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>842</td><td>4.25</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>852</td><td>5.25</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> <tr><td>860</td><td>6.00</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> </tbody> </table>	Series	Center Dist.(In.)	RATIO : 1										5	7.5	10	15	20	25	30	40	50	60	80	100	813	1.33	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	815	1.50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	818	1.75	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	821	2.06	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	824	2.38	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	826	2.62	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	830	3.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	832	3.25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	842	4.25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	852	5.25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	860	6.00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<p>Output Shaft Orientation</p> <p>MOTOR FLANGE</p> <table border="1"> <thead> <tr> <th>NEMA Input Flange Code</th> <th>For NEMA Frame</th> </tr> </thead> <tbody> <tr><td>48</td><td>48CZ</td></tr> <tr><td>56</td><td>56C</td></tr> <tr><td>140</td><td>143-5TC</td></tr> <tr><td>180</td><td>182-4TC</td></tr> <tr><td>210</td><td>213-5TC</td></tr> <tr><td>250</td><td>254-6TC</td></tr> </tbody> </table> <p>Output Bore Code</p> <p>Hollow Shaft Only See page 35.</p> <p>L – Left-hand Output Shaft* R – Right-hand Output Shaft* D – Double Output Shaft H – Hollow Output Shaft * Viewed from drive end of reducer.</p>	NEMA Input Flange Code	For NEMA Frame	48	48CZ	56	56C	140	143-5TC	180	182-4TC	210	213-5TC	250	254-6TC
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Sample Model Number

Solid Shaft

Motorized Quill Input, Single Reduction Reducer, 1.75" Center Distance, 15:1 Ratio, Left Hand Output Shaft, and 5/8" Input Bore with NEMA 56C Flange.

BMQ **818** **15** **L** **56**
 Style Series Ratio Mounting Assembly Motor Input Flange

Hollow Shaft

Motorized Quill Input, Single Reduction Reducer, 1.75" Center Distance, 15:1 Ratio, 1.00" Hollow Output Shaft, and 5/8" Input Bore with NEMA 56C Flange.

HMQ **818** **15** **H1** **56** **16**
 Style Series Ratio Mounting Assembly Motor Input Flange Output Bore Code