

In 1988, AGMA issued a revised product standard, identified as 6010-E88, which replaced 420.04 (1975). This new standard included a number of changes to the application service factors which were generally increased over the previous values. These changes were prompted by a consensus of committee members who traditionally design their reducers with a strength to catalog ratio less than that used by Falk.

The higher strength to catalog ratios used by Falk, plus the optimized product design criteria, and extensive field experience, indicate that these higher application service factors are not required.

All Falk published selection information will continue to be based on the service factors established in 420.04 (1975).

The following service factor tables indicate where the two standards differ.

### Differing AGMA and Falk Service Factors

By Application	Under 10 Hours		Over 10 Hours	
	AGMA	Falk	AGMA	Falk
BARGE HAUL PULLERS	1.25	1.75‡	1.50	2.00‡
BAR SCREENS (Sewage)	1.25	1.00		
BELT FEEDERS	1.15	1.25‡		
BLOWERS (Vane)	1.25	1.00	1.50	1.25
CANE KNIVES	1.50	†		
CLARIFIERS	1.25	1.00		
CLASSIFIERS	1.00	1.25‡	1.25	1.50‡
COLLECTORS (Sewage)	1.25	1.00		
COMPRESSORS				
Reciprocating: Multi-Cylinder	1.50	1.25	1.75	1.50
COOKERS (Brewing & Distilling), (Food)	1.25	1.00		
COOLING TOWER FANS	2.00	RF	2.00	RF
CRANES & HOISTS				
Dry Dock Cranes	2.50	RF	2.50	RF
Main Hoist Heavy Duty	2.50	1.75	2.50	2.00
Trolley Drive	3.00	RF	3.00	RF
Bridge Drive	3.00	RF	3.00	RF
CRUSHERS (Sugar)	1.50	†		
DEWATERING SCREENS (Sewage)	1.50	1.25		
DRYERS & COOLERS (Mills, Rotary)	1.50	†		
ELEVATORS (Bucket - Uniform Load)	1.25	1.00	1.50	1.25
FANS				
Cooling Towers Induced Draft	2.00	RF	2.00	RF
Forced Draft	1.25	†		
Induced Draft	1.50	1.25		
Large (Mine, etc.)	1.50	1.25		
Large Industrial	1.50	1.25		
MASH TUBS (Brewing and Distilling)	1.25	1.00		
METAL MILLS				
Table Conveyors:				
Non-Reversing Individual Drives	2.00	1.75		
Non-Reversing Group Drives	1.50	1.25		
Reversing	2.00	RF	2.00	RF
Wire Winding Machines	1.50	1.25		
MILLS, ROTARY				
Ball & Rod Mills				
With Spur Ring Gear	2.00	†	2.00	2.20‡
With Helical Ring Gear	1.50	†	1.50	1.65‡
Direct Connected	2.00	†	2.00	2.20‡
Cement Kilns, Coolers, Dryers, Pebble, Plan and Wedge Bar Mills	1.50	†	1.50	1.65‡
PEBBLE MILLS	1.50	†		
PULLERS (Barge Haul)	1.25	1.75‡	1.50	2.00‡
RECIPROCATING COMPRESSORS				
Multi-Cylinder	1.50	1.25	1.75	1.50
SCUM BREAKERS (Sewage)	1.50	1.25		
SLAB PUSHERS	1.50	1.25		
SLUDGE COLLECTORS (Sewage)	1.25	1.00		
THICKENERS (Sewage)	1.50	1.25		
VACUUM FILTERS (Sewage)	1.50	1.25		

RF = Refer to Factory  
 † No service factor shown in Falk Tables.  
 ‡ Exceeds AGMA 6010-E88.

By Industry	Under 10 Hours		Over 10 Hours	
	AGMA	Falk	AGMA	Falk
<b>BREWING &amp; DISTILLING</b>				
Brew Kettles, Continuous Duty	1.25	1.00		
Cookers - Continuous Duty	1.25	1.00		
Mash Tubs - Continuous Duty	1.25	1.00		
<b>CLAY WORKING MACHINES</b>	1.75	1.25		
<b>DREDGES</b>				
Cutter Head Drives	2.00	1.75		
Jig Drives	2.00	1.75		
Maneuvering Winches	2.00	1.25	2.00	1.50
Pumps	2.00	1.25	2.00	1.50
<b>FOOD INDUSTRY</b>				
Beet Slicers	2.00	1.25	2.00	1.50
Cereal Cookers	1.25	1.00	1.50	1.25
<b>LUMBER (Veneer Lathe Drives)</b>	1.25	RF	1.50	RF
<b>PAPER MILLS</b>				
Agitator (Mixers)	1.50	†		
Agitator for Pure Liquids	1.50	†		
Breaker Stack	1.25	†		
Chipper	2.00	†		
Chip Feeder	1.50	†		
Coating Rolls	1.25	†		
Conveyors: Log (incl. Slab)	2.00	†		
Embosser	1.25	†		
Extruder	1.50	†		
Fourdrinier Rolls: Lumpbreaker				
Wire Turning, Dandy & Return Rolls	1.25	†		
Kiln Drive	1.50	†		
Mt. Hope & Paper Rolls	1.25	†		
Platter	1.50	†		
Pulper - Continuous	2.00	†	2.00	1.50
Reel (Surface Type)	1.25	†		
Screens				
Chip, Rotary	1.50	†		
Vibrating	2.00	†		
Size Press	1.25	†		
Super Calendar	1.25	†		
Vacuum Pumps	1.50	†		
Wind & Unwind Stand	1.00	†	1.25	1.00
Yankee Dryers	1.25	†		
<b>SEWAGE DISPOSAL</b>				
Bar Screens	1.25	1.00		
Chemical Feeders	1.25	1.00		
Collectors	1.25	1.00		
Dewatering Screens	1.50	1.25		
Scum Breakers	1.50	1.25		
Slow or Rapid Mixers	1.50	1.25		
Thickeners	1.50	1.25		
Vacuum Filters	1.50	1.25		
<b>SUGAR INDUSTRY</b>				
Cane Knives, Crushers	1.50	†		
Mills (Low Speed End)	1.75	†	1.75	2.00