

Page Number	109-091
Effective	Jan 2014
Replaces	Aug 2011
Section	109

PART NAME	MATERIALS				
	MODEL:	HRO-GX	HROF	HRA HRA-GX	HRB HRB-GX
Body		Cast Iron: ASTM A48	Ductile Iron: ASTM 536	Cast Iron: ASTM A48	Ductile Iron: ASTM 536
Cover		Ductile Iron	Ductile Iron	Cast Iron	Ductile Iron
Closure Plate		Ductile Iron	Ductile Iron	Cast Iron	Cast Iron
Bracket, Mounting Ring	Cast Iron: ASTM A48				
Spool (-GX Models Only)	Cast Iron: ASTM A48				
Pinion	Case Hardened Steel; AISI 8620				
Gear	Steel: AISI 4150				
Output Shaft	Steel: AISI 1050				
Bearings	Single Row, Deep Groove Ball Bearings, Splash Lubricated				
Gaskets	Fiber				

-GX models are spool mounted reducers for use with Blackmer GX pumps.

### OPERATING LIMITS

Maximum Operating Temperature	180°F (82°C) Maximum Gear Case Temperature
Minimum Operating Temperature	-40°F (-40°C) Minimum Gear Case Temperature
Lubrication	Synthetic oil AGMA Viscosity Grade 4 or ISO Viscosity Grade 150. See Instruction Manuals.