

Viking® Universal Seal Materials of Construction

Universal Seal Series Construction

Component		Cast Iron Non-Jacketed Series 124A/AE, 4124A/AE, 4124B, Jacketed Series 224A, 4224A, 224AE, 4224AE, 4224B, 324A, 4324A	Ductile Iron Non-Jacketed Series 126A, 4126A Jacketed Series 226A & 4226A	Steel Externals Non-Jacketed Series 123A, 4123A, 323A, 4323A Jacketed Series 223A, 4223A	Stainless Steel Non-Jacketed Series 127A, 4127A, 327A, 4327A Jacketed Series 227A, 4227A
Casing		Cast Iron ASTM A48, Class 35B	Ductile Iron ASTM A536, Grade 60-40-18	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M
Head		Cast Iron ASTM A48, Class 35B	Ductile Iron ASTM A536, Grade 60-40-18	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M Case Hardened
Head Plate for Jacketed Models		Cast Iron ASTM A48, Class 35B	Steel ASTM A216, Grade WCB	Steel ASTM A216, Grade WCB	Cast Iron ASTM A48, Class 35B
Bracket		Cast Iron ASTM A48, Class 35B	Ductile Iron ASTM A536, Grade 60-40-18	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M
Idler		②③ Cast Iron ASTM A48, Class 35B	②③ Cast Iron ASTM A48, Class 35B	②③ Cast Iron ASTM A48, Class 35B	Stainless Steel ASTM A 743, Grade CF8M Case Hardened
Rotor	Standard	① Cast Iron ASTM A48, Class 35B	① Cast Iron ASTM A48, Class 35B	① Cast Iron ASTM A48, Class 35B	Stainless Steel ASTM A 743, Grade CF8M Case Hardened
	Steel Fitted	⑤ Steel ASTM A148, Grade 80-40	⑤ Steel ASTM A148, Grade 80-40	⑤ Steel ASTM A148, Grade 80-40	
Rotor Shaft		Steel ASTM A108, Grade 1045	Steel ASTM A108, Grade 1045	Steel ASTM A108, Grade 1045	Stainless Steel ASTM A276 Type XM-19 or 316 condition B
Idler Pin		Hardened Steel ASTM A108, Grade 1045	Hardened Steel ASTM A108, Grade 1045	Hardened Steel ASTM A108, Grade 1045	Hard Coated Stainless Steel ASTM A276 Type 316 Colmonoy # 6 coated
Idler Bushing	Packed	Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Carbon Graphite
	Mech. Seal	Carbon Graphite	Carbon Graphite	Carbon Graphite	
Bracket Bushing	Packed	Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Carbon Graphite
	Mech. Seal	④ Carbon Graphite	Carbon Graphite	Carbon Graphite	
Internal Pressure Relief Valve ⑥		Cast Iron ASTM A48, Class 35B	Steel ASTM A216, Grade WCB	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M

① KK, LS, QS and N sizes have ductile iron rotor, ASTM A536 Grade 60-40-18.

② Steel fitted Q and QS sizes have steel idler.

③ H and HL sizes have powdered metal idler, MPlF Std 35 FC-0208-50.

④ H-LL 4124B (Behind-the-Rotor) pumps have bronze bracket bushing with Buna N seal, carbon graphite for Viton® or PTFE seals.

⑤ Material specification for HL steel rotor is AISI 8620, LS steel rotor is ASTM A148 80-50.

⑥ RS relief valve not available. Contact factory for jacketing options.