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Effective	Sept 2006
Replaces	New
Section	-
C Series	

MATERIALS OF CONSTRUCTION

Models: C4a, C4a HT, C8a, C8a HT

NOTE: Temperature and viscosity ratings given below apply to individual components **Only**. For actual maximum temperatures and viscosities for the rated pump, see "**Operating Limits**" on backside.

PART NAME		STANDARD MATERIALS	AVAILABLE OPTIONS
Inlet manifold		Cast Iron EN GJS 500.7	Without by-pass: (addition of an inner jacketing) Steel Tu-52b
Cylinder		Cast Iron EN GJS 500.7	Without by-pass : (addition of a plug in the by-pass hole) Cast Iron EN GJS 500.7
Piston		Cast Iron EN GJS 600.3	
Piston nut		Stainless steel X6CrNiMoTi17-12-2 (1.4571)	
Front cover		Cast Iron EN GJS 500.7	
By-pass	Valve seat	Cast Iron FGL NiCu6Cr2	
	Valve	Steel X12CrS13 (1.4005) X11Cr13	
	Spring	Stainless Steel X8CrNi18.9 (1.4305)	
	Washer (only for spring no4)	Steel Tu37-B	
	Spring Base	Stainless steel 11SMnPb37 (1.0737)	
	Pressure Setting Screw	Steel X12CrS13 (1.4005) or X11Cr13	
	Nut for Pressure Setting Screw	Cast Iron EN GJL250	
	Flat seal	Compressed aramid fibres bonded with an NBR elastomer blend	
	Washer	Stainless Steel 11SMn37 (1.0736)	
	Screw for Seat Valve	Stainless Steel X2CrNiMo17-12-2 (1.4404)	
	Seal	Copper plated seal	
Bellows	Bellows flange Bellows hub Bellows guide	Stainless steel X2CrNiMo17-12-2 (1.4404)	Single ply bellows in Hastelloy®: Stainless steel Hastelloy® C276
	Bellows	Stainless steel X6CrNiMoTi17-12-2 (1.4571)	Single ply bellows in Hastelloy®: Stainless steel Hastelloy® C276
Static seals (O-Rings):		FKM (200°C)	FEP encapsulated FKM (200°C)

Models: C4a, C4a HT, C8a, C8a HT.

OPERATING LIMITS

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Pumped Product Temperature	100°C	150°C in HT versions.
Maximum Cleaning Product Temperature	120°C	150°C in HT versions.
Maximum Viscosity		Consult Factory for Higher Viscosities.
Maximum Pressure in the Heating Jacket	8 barg	
Minimum Inlet Pressure	-0.8 barg	
Maximum Inlet Pressure	1 barg	
Maximum Differential Pressure*	C4a, C4a HT: 9 barg C8a, C8a HT: 5 barg	

*when working with an inlet pressure less than 0 barg, the maximal outlet pressure is calculated based on an inlet pressure of zero.