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Effective	Sept 2006
Replaces	New
Section	-
C Series	

MATERIALS OF CONSTRUCTION

Models: C1i, C2i, C4h, C4i, C4i HT, C8i, C8i HT, C12i, C18i, C24i, C36i

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	Stainless steel X2CrNiMo17-12-2 (1.4404)	Jacketed inlet manifold: Stainless steel X2CrNiMo17-12-2 (1.4404)
Cylinder	<i>Alls pumps excepted C4h:</i> Stainless steel X2CrNiMo17-12-2 (1.4404) <i>C4h:</i> Stainless steel Hastelloy® C276	
Piston	Stainless steel CY5 Sn Bi-M	
Piston nut	<i>C1i, C2i, C4h, C4i, C4i HT, C8i, C8i HT, C24i, C36i:</i> Stainless steel X6CrNiMoTi17-12-2 (1.4571) <i>C12i, C12i HT, C18i, C18i HT:</i> Stainless steel X2CrNiMo17-12-2 (1.4404)	
Front cover (and tube if existing)	Stainless steel X2CrNiMo17-12-2 (1.4404)	Jacketed front cover: Stainless steel X2CrNiMo17-12-2 (1.4404)
Bellows	Bellows flange Bellows hub Bellows guide Stainless steel X2CrNiMo17-12-2 (1.4404) <i>C4h:</i> Stainless steel Hastelloy® C276	Single ply bellow in Hastelloy® (C4i and C8i): Stainless steel Hastelloy® C276
	Bellows Stainless steel X6CrNiMoTi17-12-2 (1.4571) <i>C4h:</i> Single ply bellows Stainless steel Hastelloy® C276	Single ply bellows in Hastelloy® (C4i and C8i): Stainless steel Hastelloy® C276 Double ply bellows (for C12i to C36i): Stainless steel X6CrNiMoTi17-12-2 (1.4571) Double ply bellows with Bellows Monitoring System: Stainless steel X6CrNiMoTi17-12-2 (1.4571)
Static seals (O-Rings):	FKM (200°C)	FEP encapsulated FKM (200°C) FKM in L shape (200°C) PTFE in L shape (180°C)

Models: C1i, C2i, C4h, C4i, C4i HT, C8i, C8i HT, C12i, C18i, C24i, C36i.

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	C1i, C2i, C4h, C4i, C4i HT, C8i, C8i HT, C12i, C12i HT, C18i, C18i HT, C24i, C36i: 8 barg	
Minimum Inlet Pressure	C1i, C2i, C4h, C4i, C4i HT, C8i, C8i HT, C12i, C12i HT, C18i, C18i HT, C24i, C36i: -0.8 barg	
Maximum Inlet Pressure	C1i, C2i, C4h, C4i, C4i HT, C8i, C8i HT, C12i, C12i HT, C18i, C18i HT: 1 barg C24i, C36i: 2 barg	
Maximum Differential Pressure*	C1i, C2i, C4h, C4i, C4i HT, C12i, C12i HT, C24i: 9 barg C8i, C8i HT: 5 barg C18i, C18i HT, C36i: 6 barg	

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