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Replaces	New
Section	-
C Series	

## MATERIALS OF CONSTRUCTION

**Models: C12a, C18a**

**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	<b>Without by-pass:</b> (addition of an inner jacketing) Steel Tu-52b
Cylinder		Cast Iron EN GJS 500.7	<b>Without by-pass :</b> (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 X2CrNiMo17-12-2 (1.4404)	
Front cover		Cast Iron EN GJS 500.7	
By-pass	Valve	Brass CuZn39Pb3	
	Spring	Steel XC65S	
	Spring Base	Cast Iron EN GJL250	
	Pressure Setting Screw	Steel X12CrS17 or X13CrS17	
	Spacer (only for 8 bar spring)	Stainless Steel 11SMn37 (1.0736)	
	Nut for pressure setting screw	Steel C35E (1.1181)	
	Flat seal	Compressed aramid fibres bonded with an NBR elastomer blend	
	Washer	Steel	
	Rod for By-pass Valve	Stainless steel X14CrMoS17 (1.4104)	
	Pin	Stainless steel X2CrNiMo17-12-2 (1.4404)	
Bellows	Bellows flange Bellows hub Bellows guide	Stainless steel X2CrNiMo17-12-2 (1.4404)	
	Bellows	<i>Single ply bellows</i> Stainless steel X6CrNiMoTi17-12-2 (1.4571)	<b>Double ply bellows:</b> Stainless steel X6CrNiMoTi17-12-2 (1.4571) <b>Double ply bellows with Bellows Monitoring System:</b> Stainless steel X6CrNiMoTi17-12-2 (1.4571)
Static seals (O-Rings):		FKM (200°C)	FEP encapsulated FKM (200°C)

**Models: C12a, C18a.**

## 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*	C12a: 9 barg C18a: 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.