



MATERIALS OF CONSTRUCTION
*Stainless Steel Models: C1-I, C2-I,
 C4-I, C8-I, C12-I, C18-I, C24-I, C36-I*

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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
Cover Plate (#401), Spacer Tube (#402), Inlet Tube Bracket (#104)	316L Stainless Steel (low carbon)	
Inlet Tube (#101)	316L Stainless Steel (low carbon)	Jacketed – Stainless Steel
Foot Bracket	304 Stainless Steel	
Bolts (#107 & #111)	630 Stainless (High Strength Alloy)	
Nuts (#106 & #115)	630 Stainless Steel	
Filler Plug (#715)	Plastic Breather	
Drain Plug (#773)	Steel with Copper Washer	
Cylinder (#201)	316L Stainless (low carbon)	
Disc (#301)	CYS SNB IM: Aecton	
Disc Nut (#304)	316Ti Stainless Steel (Titanium Alloy)	
Transmission Assembly (#596)		
Bearings	Ball / Roller / Needle	HT models – Consult Factory
Bellows Assembly	316Ti & 316 L Stainless Fabrication	
Housing	Cast Iron (C1 & C2: 316L Stainless)	
Bearing Cover	Steel (C1-I & C2-I: 304L Stainless)	
Cover Lip Seal	Fluorocarbon (FKM)	
Paint	Epoxy – light grey	
Transmission Lubricant	Castor Oil (240 cSt @ 40°C) – Special – Consult Factory	HT models – Consult Factory Synthetic Oil – Elf Syntherma
Seal Rings	Fluorocarbon (FKM) O' Rings	PTFE Encapsulated O-rings "L" Rings - (FDA FKM)

Centipoise (cP) = centistokes (cSt) at fluid specific gravity of 1.0.

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD	AVAILABLE OPTIONS
C1-I, C2-I	1.5" ANSI Compatible Raised Face	SMS, Cherry Burrel, 3 Piece Clamp
C4-I, C8-I	2" ANSI Compatible Raised Face	SMS, Cherry Burrel, 3 Piece Clamp
C12-I, C18-I	2.5" ANSI Compatible Raised Face	SMS, Cherry Burrel, 3 Piece Clamp
C24-I, C36-I	3" ANSI Compatible Raised Face	SMS, Cherry Burrel, 3 Piece Clamp

OPERATING LIMITS

Maximum Temperature	80°C (176°F) - Optional HT models: 150°C (302°F) – Consult Factory
Maximum Viscosity	C4-I, C8-I, C12-I, C18-I: 3,000 cSt (14,000 SSU) – Consult Factory for Higher Viscosities. C1-I, C2-I, C24-I, C36-I: 2,000 cSt (10,000 SSU) – Consult Factory for Higher Viscosities.
Maximum Working Pressure	C1-I, C2-I, C4-I, C12-I, C24-I: 9 bar (130 psi) C8-I: 5 bar (72.5 psi) C18-I, C36-I: 6 bar (87 psi)
Maximum Inlet Pressure	1 bar (14.5 psig) or 2 bar absolute (29 psia)