

Horizontal Split Case Centrifugal Pumps

Standard Materials of Construction			
ITEM NO	NAME OF PART	BRONZE FITTED	ALL IRON
1	Casing	Cast Iron	Cast Iron
2	Impeller	#8 Bronze	Cast Iron
6	Pump Shaft	SAE 4140 Steel	SAE 4140 Steel
7	Casing Wearing Rings	Cast Iron	Cast Iron
8	Impeller Wearing Rings (where used)	#8 Bronze	Cast Iron
13	Packing	Asbestos Free	Asbestos Free
14	Shaft Sleeves	SAE 660 Bronze	416 Stainless Steel
17	Split Glands	Steel	Steel
29	Lantern Rings (where used)	Teflon	Teflon
32	Impeller Key	Steel	Steel
73	Parting Gasket	Coated Fiber	Coated Fiber
209	Swing Bolts & Nuts	Stainless Steel	Stainless Steel
212	Casing Studs	Steel	Steel
213	Casing Nuts	Steel	Steel

Nominal Casting Composition						
Type	Nearest ASTM Number	% COMP.	% COMP.	% COMP.	% COMP.	BHN
No. 8 Bronze	B584 C83600	85 Cu	5 Sn	5 Pb	5 Zn	50 - 60
No. 5 Bronze	B584 C95800	81 Cu	5 Sn	9 Pb	---	50 - 60
Cast Iron	A48 Class 30	3.3 - 3.6 C	.5 - .8 Mn	2.1 - 2.8 Si	.05 P	179 - 228
316 St. Stl.	A743 CF8M	9 - 12 Ni	18 - 21 Cr	1.5 Mn	1.5 Si	135 - 185
Alloy 20	A743 CN7M	27 - 31 Ni	18 - 22 Cr	1.5 Mn	1.5 Si	130 - 160
Ductile Iron	A536 65-45-12	3.3 - 3.9 C	.4 - .75 Mn	2 - 3 Si	.04 P	143 - 207
Navy G Bronze	B584 C90500	86 - 89 Cu	9 - 11 Sn	1 - 3 Zn	1 Pb	60 - 75



WARNING:
 CANCER AND REPRODUCTIVE HARM -
 WWW.P65WARNINGS.CA.GOV