



# MATERIALS OF CONSTRUCTION

## SE1, SE1.5, SE3, SE4

MAIN PARTS 1'' - 1.5'' - 3'' - 4''		
PART NAME	STANDARD MATERIALS	OPTIONAL MATERIALS
Pump body, Heads By-pass valve cover	Stainless steel SS316	Stainless steel SS304
Bearing covers	Stainless steel SS316	Stainless steel SS304
Front main Shaft Bearing	Deep groove ball bearing, grease lubricated, to 150 <sup>0</sup> C (302 <sup>0</sup> F)	
Back main shaft and secondary shaft	Carbon bearing, to 250 <sup>0</sup> C (482 <sup>0</sup> F)	
Gears	Stainless steel SS316	Stainless steel SS304
Shaft	Stainless steel SS316	Stainless steel SS304

<b>BY-PASS VALVE 1.5''- 3'' – 4''</b>		
<b>PART NAME</b>	<b>STANDARD MATERIALS</b>	<b>OPTIONAL MATERIALS</b>
Valve	Stainless steel SS316	Stainless steel SS304
Spring	Stainless steel SS316	Stainless steel SS302

<b>SEALING 1''- 1.5''- 3'' – 4''</b>		
<b>PART NAME</b>	<b>STANDARD MATERIALS</b>	<b>OPTIONAL MATERIALS</b>
Mechanical seal	Type 59U Stationary Ring: silicon carbide Rotary Ring: carbon Secondary seal: PTFE (Teflon) to 250°C (482°F). Spring & metal parts: SS316	Type 502 Stationary Ring: silicon carbide Rotary Ring: silicon carbide Secondary seal: FKM (Viton) to 200°C (392°F) Spring & metal parts: SS304
O-ring	FEP (Teflon) to 205°C (400°F) encapsulated FKM (Viton)	FKM (Viton) to 200°C (392°F)

PIPING CONNECTION 1.5" - 3" - 4"		
PART NAME	STANDARD MATERIALS	OPTIONAL MATERIALS
Flange	Weld flanges SS316	NPT flanges SS316/SS304 BSPP DIN2986 SS316/SS304 couplings ANSI adaptors