



## MATERIALS OF CONSTRUCTION GMD2, GMD2.5, GMD3

<b>MAIN PARTS 2''- 2.5''- 3''</b>		
PART NAME	STANDARD MATERIALS	OPTIONAL MATERIALS
Pump body, Heads By-pass valve cover Two-way outlet cover (not for 3'')	Cast iron GG25	Ductile iron GGG50
Bearing covers	Aluminum	
Bearing	Deep groove ball bearing, grease lubricated, to 150°C (302°F)	
Rotor	Cast iron GG25	Ductile iron GGG50
Shaft	Single end keyed shaft steel 42CrMo4	Double end keyed shaft steel 42CrMo4 Single end keyed shaft SS316 Double end keyed shaft SS316

<b>BY-PASS VALVE 2''- 2.5''- 3''</b>		
<b>PART NAME</b>	<b>STANDARD MATERIALS</b>	<b>OPTIONAL MATERIALS</b>
Valve	Cast iron GG25	Cast iron GGG50 Stainless steel SS316
Spring	Steel C80 DIN 17223	Steel C80 DIN 17223 plated Stainless steel SS316

<b>VANES 2''- 2.5''- 3''</b>		
<b>PART NAME</b>	<b>STANDARD MATERIALS</b>	<b>OPTIONAL MATERIALS</b>
Vanes	Advanced polymer with St37 plate to 130°C (266°F). 4250cSt(20000ssu)	Laminate VOLTIS® Hgw 2082 with St37 plate to 130°C (266°F). 4250cSt(20000ssu)  PTFE (Teflon) with SS316 plate to 250°C (482°F). 4250cSt(20000ssu)
Push rods	Stainless steel SS304	

SEALING 2'' - 2.5'' - 3''		
PART NAME	STANDARD MATERIALS	OPTIONAL MATERIALS
Mechanical seal	Type 502 Stationary Ring: silicon carbide Rotary Ring: silicon carbide Secondary seal: FKM (Viton) to 200°C (392°F) Spring & metal parts: SS304	Type 59U Stationary Ring: silicon carbide Rotary Ring: carbon Secondary seal: PTFE (Teflon) to 250°C (482°F). Spring & metal parts: SS316
O-ring	FKM (Viton) to 200°C (392°F)	FEP (Teflon) to 205°C (400°F) encapsulated FKM (Viton)

PIPING CONNECTION 2'' - 2.5'' - 3''		
PART NAME	STANDARD MATERIALS	OPTIONAL MATERIALS
Flange	Two weld flanges St37	Two NPT flanges St37 Two BSPP DIN2986 couplings ANSI adaptors