



## MATERIALS OF CONSTRUCTION DNG2, DNG2.5, DNG3

MAIN PARTS 2''- 2.5''- 3''		
PART NAME	STANDARD MATERIALS	OPTIONAL MATERIALS
Pump body, Heads By-pass valve cover Two-way outlet cover (not for 3'')	Ductile iron GGG50	
Bearing covers	Aluminum	
Bearing	Carbon bearing, to 150°C (302°F)	
Rotor	Ductile iron GGG50	
Shaft	Single end keyed shaft steel 42CrMo4	Single end keyed shaft stainless steel SS316

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

SEALING 2''- 2.5''- 3''		
PART NAME	STANDARD MATERIALS	OPTIONAL MATERIALS
Shaft Packing	100% PTFE (Teflon) fibre Nipper to 250°C (482°F), 25bar (362psi)	Carbon fibre and Silicone Free, run-in Lubricant to 300°C (572°F), 25bar (362psi)
O-ring	FEP (Teflon) to 205°C (400°F) encapsulated FKM (Viton)	FKM (Viton) to 200°C (392°F)

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