



**MATERIALS of CONSTRUCTION**

Pub # 2801-20  
 Effective Nov 3, 2020  
 Replaces May 1, 2020

**Model: R75 R77 R80 R82**

CAT #	DESCRIPTION	STANDARD MATERIALS
1	Body	Ductile Iron ASTM A536
2	Cover	Ductile Iron ASTM A536
	Bearing Housing	Ductile Iron ASTM A536
3	Impeller	Ni Resist
4	O-Ring Cover	Fluoroelastomer (FKM)
8	Impeller Key	Key Steel
21	Shaft	Carbon Steel
23	Ball Bearing	Commercial
24	Ball Bearing	Commercial
25	Ball Bearing Circlip	Spring Steel
33	Oil Seal	Nitrile (NBR)
56	Mechanical Seal Assembly	Carbon/Silicon Carbide/Fluoroelastomer (FKM)
57	Mechanical Seal Cartridge	Ductile Iron ASTM A536
57B	Primary Seal O'Ring Cartridge	Fluoroelastomer (FKM)
57C	Secondary Seal O'Ring Cartridge	Fluoroelastomer (FKM)
58	Mechanical Seal Circlip	Spring Steel

**CONNECTIONS**

	R75/ R77	R80/ R82
Inlet Port	DN80 (3") NPT/ANSI Class 300 Raised	DN80 (3") NPT/ANSI Class 300 Raised Face
Alternate Inlet Port	2" Flanged. (2" NPT adaptor available)	
Outlet Ports	2" Flanged. (2" NPT adaptor available)	DN80 (3") NPT/ANSI Class 300 RF
Gauge Ports	1/4" NPT	1/4" NPT

**OPERATING LIMITS**

Maximum Differential Pressure	14 Bar
Maximum Working Pressure	30 Bar
Hydrostatic Test Pressure	70 Bar
Minimum Temperature	-40 °C
Maximum Speed	3500 rpm