



Ebsray RC Series

Pub # 2693-22

Effective Feb-22

Replaces May-20

MATERIALS of CONSTRUCTION

CAT #	DESCRIPTION	STANDARD MATERIALS
1	Body	Ductile Iron ASTM A536
2	Cover	Ductile Iron ASTM A536
3	Impeller	Ni Resist
4	O-Ring Cover	Fluoroelastomer (FKM)
8	Impeller Key	Mild Steel
21	Shaft	Carbon Steel
23	Ball Bearing	Commercial
24	Ball Bearing	Commercial
25	Ball Bearing Circlip	Spring Steel
33	Dust Seal	Nitrile (NBR)
36	Coupling Assembly	Mild Steel/Nylon
37	Coupling Guard	Aluminium
55	Secondary Seal	Mild Steel/Fluoroelastomer (FKM)
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
	*O-ring Options	Nitrile, FFKM/PTFE, Neoprene

CONNECTIONS

Inlet Port	RC20 & 25	DN 25/1 in. NPT(F)
	RC40	1-1/2" NPT, Flanged to suit 1-1/2" ANSI Class 300 and DN40 DIN PN40
Outlet Ports	RC20 & 25	DN 25/1 in. NPT(F)
	RC40	1" NPT, Flanged to suit 1" ANSI Class 300 and DN25 DIN PN40
Gauge Ports		1/4" NPT

OPERATING LIMITS

Maximum Differential Pressure	14 Bar
Maximum Working Pressure*	34 bar *27.5 bar (400psi) in regions where Underwriters Laboratories UL51 applies
Hydrostatic Test Pressure	70 Bar
Minimum Temperature	-40 °C
Maximum Temperature	* 60 °C For operating temps higher than 60° C consult Ebsray
Maximum Speed*	3800 RPM * 3600 RPM in regions where Underwriters Laboratories UL51 applies
Nozzle Loads (RC40)	$F_x, F_y, F_z < 890 \text{ N} - M_x, M_y, M_z < 340 \text{ N-m}$