



API 685-Series



Standard-SGM Series

No	Item	Standard Series SGM	API685 Canned	Para. No.
1	Bearing	Mostly graphite	Graphite with SiC layer or pure SiC (improved design!)	6.1.1
2	Cooling-water System Design	No Corrosion allowed in the Shell	3.0 mm Corrosion allowed in the Shell	6.1.22
3	Temperature and Pressure Profile	Not furnished	According to APPENDIX K	6.2.3
4	ASME Code Design	Not Applicable	Meet	6.3.1
5	Pressure Rating	Max. 4 MPa	Minimum 4 MPa	6.3.2
6	Casing design	No casing support	Centerline support (new casing design!)	6.3.8
6	Minimum Corrosion Allowance of Casing	0.15mm for Stator & Rotor Liner (Can)	Minimum 3mm 0.15mm for Stator & Rotor Liner (Can)	6.3.3/9.2.3.1
7	Tapped Holes Depth	Not Applicable	Meet	6.3.11.2
8	Studs Bolts	Mostly Socket Head Cap Screws	Equipped Studs Bolts	6.3.11.4
9	Nominal Pipe Size	2 ½ and 5 NPS on Some Models	Be not use 1¼, 2½, 3½, 5, 7, 9 NPS	6.4.1.1
10	Casing Connections	½ NPS	At least ½ NPS	6.4.1.2
11	Flange Back Design	Mostly not machined	Meet	6.4.2.4



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12	Nozzle Force & Moments	2 time API 685	4 times API (heavy casing design !)	6.5
13	Wear Rings	Not equipped	Equipped on Casing	6.7.1
14	Secondary control with leakage monitoring	Not equipped	Pressure switch as Option	6.8.4
15	Balancing	Less G6.3	Less G2.5	6.9.4.1
16	Tolerance Rings or Similar Device	Not equipped	Sleeve is equipped	6.10.4
17	Motor Power Rating	As option	According to Table 4	7.1.4.1
18	Test Tolerance	As option	According to Table 7	8.3.3.3.3
19	Baseplate	option	Meet	9.1.5.3
20	Stator Housing Design Pressure (Stator Band)	2 MPa	4 MPa (new stator housing design!)	9.2.2.1
21	Stator liner thickness (CAN)	0.4mm	0.5mm / 0.6mm	9.2.3.1
22	Terminal Box Size	Manufacture Standard	IEC Standard Design and fixed by ATEX Ex-proof License	9.2.2.4
23	Recommended service intervall	1 year	3 years	

