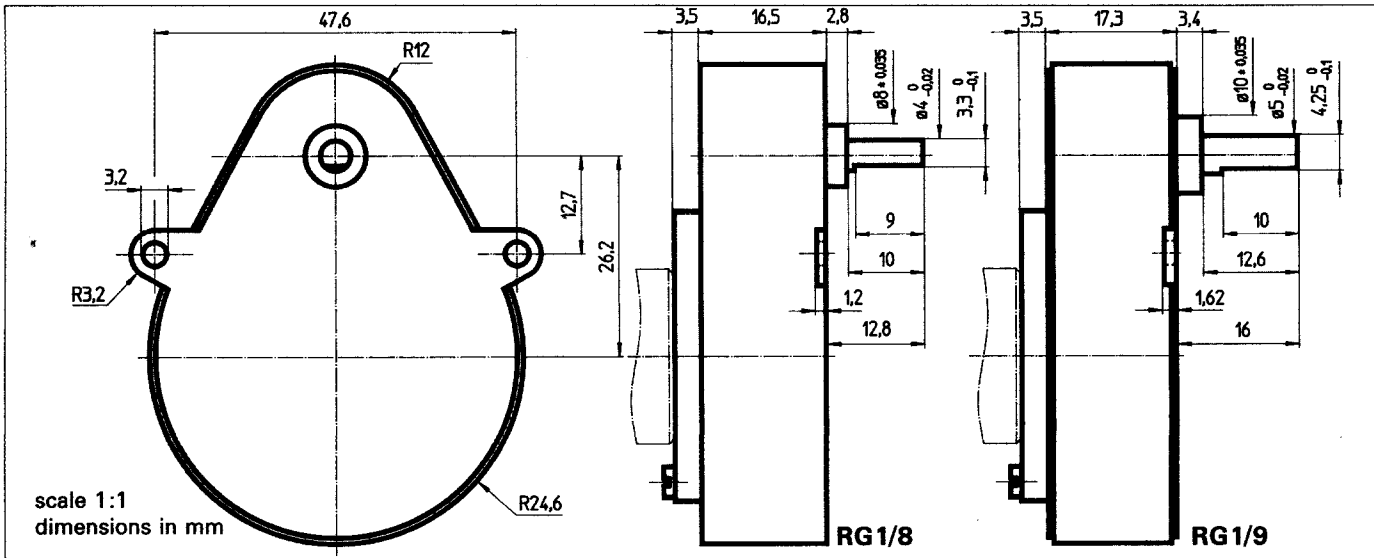


# Reduction gearbox escap® RG1/8 and RG1/9

RS Ovoid Gearboxes 336-220 etc = RG 1/8



| Standard types available from stock       |            | RG1/8                      |      |      |      |      | RG1/9                      |      |      |      |      |      |      |  |
|---|------------|----------------------------|------|------|------|------|----------------------------|------|------|------|------|------|------|--|
| Max. recom. dynamic output torque         | Nm (oz-in) | 0.6 (85) at 20 rpm         |      |      |      |      | 1.2 (170) at 20 rpm        |      |      |      |      |      |      |  |
|   | Nm (oz-in) | 0.2 (28.3) at 150 rpm      |      |      |      |      | 0.4 (56.7) at 150 rpm      |      |      |      |      |      |      |  |
| Max. recom. static output torque          | Nm (oz-in) | 1.0 (142)                  |      |      |      |      | 2.0 (283)                  |      |      |      |      |      |      |  |
| Max. recommended input speed              | rpm        | 5000                       |      |      |      |      | 5000                       |      |      |      |      |      |      |  |
| Average backlash                          |            | 1.5° at no-load            |      |      |      |      | 2.5° at no-load            |      |      |      |      |      |      |  |
|   |            | 3° at 0.3 Nm               |      |      |      |      | 3° at 0.3 Nm               |      |      |      |      |      |      |  |
| Radial shaft play (typical)               | µm         | 25                         |      |      |      |      | 25                         |      |      |      |      |      |      |  |
|   |            | at 4 mm from mounting face |      |      |      |      | at 5 mm from mounting face |      |      |      |      |      |      |  |
| End play (typical)                        | µm         | 250                        |      |      |      |      | 300                        |      |      |      |      |      |      |  |
| Max. recommended side load                | N (lb)     | 50 (11.2)                  |      |      |      |      | 60 (13.5)                  |      |      |      |      |      |      |  |
|   |            | at 8 mm from mounting face |      |      |      |      | at 8 mm from mounting face |      |      |      |      |      |      |  |
| Max. recommended axial load               | N (lb)     | 50 (11.2)                  |      |      |      |      | 50 (11.2)                  |      |      |      |      |      |      |  |
| Max. axial static force for press-fit     | N (lb)     | 200 (45)                   |      |      |      |      | 250 (56)                   |      |      |      |      |      |      |  |
| Available reduction ratios                |            | 5.5                        | 12   | 48   | 480  | 1200 | 4.25                       | 9    | 18   | 48   | 180  | 360  | 1620 |  |
|   |            |                            | 24   | 96   | 750  | 1920 |                            | 12   | 24   | 90   |      | 810  |      |  |
|   |            |                            |      | 150  |      | 3000 |                            |      |      |      |      |      |      |  |
| Average efficiency                        |            | 0.8                        | 0.7  | 0.65 | 0.6  | 0.55 | 0.8                        | 0.7  | 0.65 | 0.6  | 0.55 | 0.5  | 0.45 |  |
| Nr. of geartrains / direction of rotation |            | 2/=                        | 3/≠  | 4/=  | 5/≠  | 6/=  | 2/=                        | 3/≠  | 4/=  | 5/≠  | 6/=  | 7/≠  | 8/=  |  |
| Length L                                  | mm         | 16.5                       | 16.5 | 16.5 | 16.5 | 16.5 | 17.3                       | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 |  |
| Mass                                      | g          | 64                         | 66   | 68   | 70   | 72   | 86                         | 88   | 90   | 92   | 95   | 98   | 102  |  |

Reduction gearbox with spur gears  
Standard version fitted with sleeve bearings  
Recommended temperature range  
-30 to +65°C (-22° to +150°F)