DIN 28084:2020-12 (E)

Support rings and ring supports on non-alloy and stainless steel apparatus - Dimensions, types, forms and maximum operating load

Contents

Page

Foreword 4

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Symbols, units and descriptions 7

5 Design features, types and dimensions 7
5.1 General 7
5.2 Designs and types 7
5.3 Types of support of the support rings and ring supports 9
5.4 Design and types of bearing frame openings, support rings and ring supports 9

6 Dimensions and designation 10
6.1 General 10
6.2 Dimensions for bearing frame opening, ring support and support ring diameters 11
6.3 Support ring and ring support thicknesses 13

7 Material 24

8 Connecting lugs for earthing and potential equalization 24

9 Welds 25

10 Designation example 25

Bibliography 26

Figures Figure 1 -- Support ring welded to apparatus shell 8

Figure 2 -- Support ring welded to apparatus jacket 8

Figure 3 -- Support on eight support points 9

Figure 4 -- Dimensions for bearing frame opening, ring support and support ring diameters 12

Tables Table 1 -- Symbols, units and descriptions 7

Table 2 -- Design and types of support rings and ring supports 10

Table 3 -- Diameters of bearing frame openings, support rings and ring supports 13

Table 4 -- Guideline dimensions for support ring or ring support thicknesses for uniform support and nominal capacities (VN) of 630 litres to 16 000 litres 14

Table 5 -- Guideline values for support ring and ring support thicknesses for uniform support and nominal capacities (VN) of 20 000 litres to 40 000 litres 17

Table 6 -- Guideline values for support ring and ring support thicknesses with support on eight support points and nominal capacities (VN) of 630 litres to 16 000 litres 20

Table 7 -- Guideline values for support ring and ring support thicknesses with support on eight support points and nominal capacities (VN) of 20 000 litres to 40 000 litres 23