

DIN 28084:2020-12 (E)

Support rings and ring supports on non-alloy and stainless steel apparatus - Dimensions, types 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