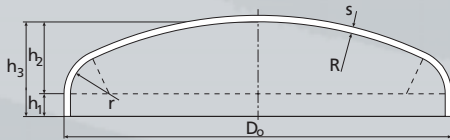
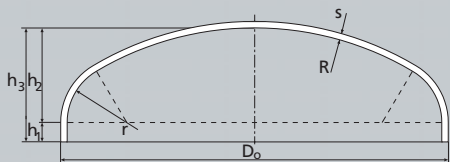


Our delivery program – head types and inspection/manhole covers



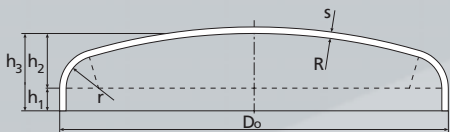
**Torispherical head
DIN 28011**

$R = D_o$
 $r = 0,1 \times D_o$
 $h_1 \square 3,5 \times s$
 $h_2 = 0,1935 \times D_o - 0,455 \times s$
 $h_3 = h_1 + h_2$
 (max. 6.000 mm D_o , 32 mm thick)



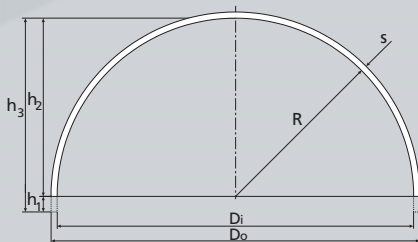
**Semi ellipsoidal head
DIN 28013**

$R = 0,8 \times D_o$
 $r = 0,154 \times D_o$
 $h_1 \square 3 \times s$
 $h_2 = 0,255 \times D_o - 0,635 \times s$
 $h_3 = h_1 + h_2$
 (max. 5.300 mm D_o , 30 mm thick)



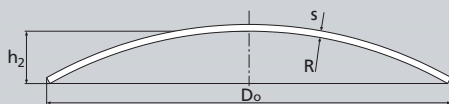
**Standard-type/
flat dished head**

$R = D_o$ (standard-type head)
 $R = 1,3 \times D_o$ (flat dished head)
 $r = 15 - 50$ mm, on request > 50 mm
 $h_1 \square 3,5 \times s$
 $h_2 =$ dished height
 $h_3 = h_1 + h_2$
 (max. 6.000 mm D_o , 32 mm thick)



Hemispherical head

$D_i = D_o - 2 \times s$
 $R = 0,5 \times D_i$
 $h_1 =$ as per specification
 $h_2 = R$
 $h_3 = h_1 + h_2$
 (up to 1.150 mm D_o , 50 mm thick – hot formed,
 > 1.150 mm made of crown and petals,
 max. 32 mm thick)



Convex disc

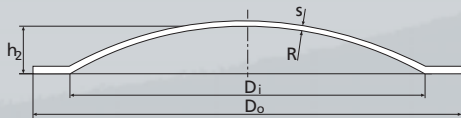
Form $R = D_o$ Form $R = 0,8 \times D_o$
 $h_2 = 0,134 \times D_o$ $h_2 = 0,176 \times D_o$
 Form $R = > D_o$ on request possible
 (max. 7.000 mm D_o , 35 mm thick
 up to 1.500 mm D_o , increase in thickness possible)



Flat head

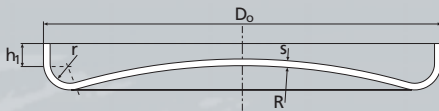
$h_1 \square 3,5 \times s$
 $r = 15 - 50$ mm – on request > 50 mm
 $h_3 = h_1 + h_2$
 (max. 6.000 mm D_o , 32 mm thick)

Plate-type head



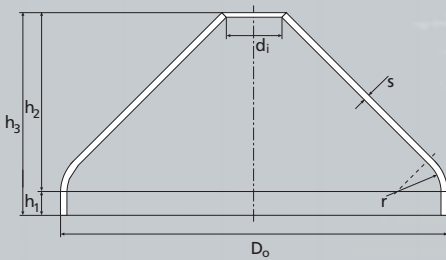
$R = D_i$
 $h_2 = 0,134 \times D_i$
 (max. 6.000 mm D_o , 30 mm thick
 up to 1.500 mm D_o , and 40 mm thick – hot formed)

Diffuser head



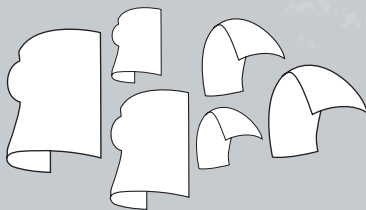
$R \leq D_o$
 $r = \text{max. } 100 \text{ mm}$
 $h_1 \leq 3,5 \times s$
 (max. 6.000 mm D_o , 30 mm thick)

Cone



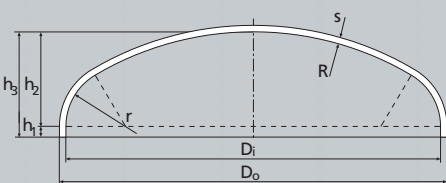
on request

Special pressings



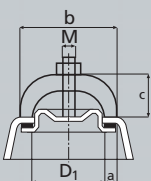
(can be individually manufactured to your requirements; cold or hot formed)

Ellipsoidal head

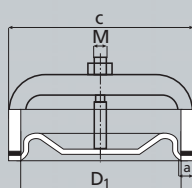


Form 2:1 **Form 1,9:1**
 $D_i = D_o - 2 \times s$ on request possible
 $R = 0,9 \times D_i$
 $r = 0,17 \times D_i$
 $h_1 = \text{as per specification}$
 $h_2 = 0,25 \times D_i$
 $h_3 = h_1 + h_2$
 (max. 5.400 mm D_o , 30 mm thick)

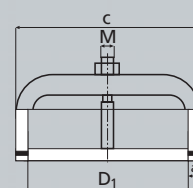
Oval standard inspection and manhole covers



80 x 120 mm
 100 x 150 mm
 150 x 250 mm



220 x 320 mm
 300 x 400 mm
 320 x 420 mm
 350 x 450 mm



Inspection / Manhole covers
 (with pressed or flat cover)