

# Heads

## DIN- ASME- STANDARD

Standard	Classification	Material
<b>Dimension:</b>	<b>Carbon steel</b>	P265-GH, 16Mo3, 15NiCuMoNb5
Diameter (OD): 60,3 - 13.500 mm	CrMo(V) Alloy steel	10CrMo9-10 , 13CrMo4-5 ASME SA 387 Gr.11, Gr.12, Gr.91
Wall thickness (s): 3 – 250 mm		P355-GH, -NH, -NL1, -NL2 ASME SA 516 Gr.60 , Gr.70
<b>Typical forms:</b>	<b>Stainless steel</b>	1.4301 / ASME SA240- 304 1.4307 / ASME SA240- 304L 1.4404 / ASME SA240- 316, 316L 1.4541 / ASME SA240- 321, 321H 1.4571 / ASME SA240- 316Ti 1.4539 / ASME SA240- 904 L 1.4462 / ASTM Duplex 2205 1.4501 / ASTM SuperDuplexCr25
- Torispherical head DIN 28011		
- Semi ellipsoidal head DIN28013		
- Ellipsoidal heads 2:1		
- Hemispherical heads		
- Standard/Flat dished heads		
- Flat heads	Duplex and Super Duplex	
- Convex discs		
- Plate type heads		
- Diffuser heads	<b>Nickel alloys</b>	Alloy -20, -59, -200 MONEL -400 INCONEL -600, -601, -625 INCOLOY -800, -825
- Bulk & Tank vehicle heads		
- Cone		
- Weld construction		
- Special pressed parts		
<b>Test method:</b>	<b>and other</b>	Copper, Titanium, Aluminium cadded material combinations
Impact -Test at room temperature or low temperature acc. to DIN EN 10045-2		
Tensile test acc to DIN EN 10002-1 , ISO 6892-1 , ASTM A 370		
Hot tensile test acc to DIN EN 10002-5 until 900°C		
Hardness Test acc. to Brinell and DIN EN ISO 6506-1		
Testing of intercrystalline corrosion acc to ISO 3651-2 (A) , ASTM A 262 Pract. E		
X – Ray -Examination acc. to EN 1435 , ISO 5817 , ASME V Art.2 , VIII Div.1 § UW -51		
UT - Ultrasonic testing acc. to EN 10160 , EN 10307 , ASME SA-578 , ASME SA-435		
PT - Penetrant testing acc. to EN 571 , ASME V Art.6 , ASME VIII Div.1 App.8		
MT- Magnetic particle testing acc. to EN 1291 , ASME V Art.7 , ASMEVIII Div.1 App.6		
<b>Design Code:</b>		
AD-2000 , BS PD 5500 , CODAP, EN 13445 + PED 97/23/EC		
ASME VIII, Div. 1 und Div. 2 , U-Stamp, U2-Stamp Authorization		
<b>Certificate:</b>		
Certificate acc. to EN 10204 - 3.1 and 3.2 from independent organization		
	- Lloyd's Reg. of Shipping ( LRS )	
EN_29/v04	- TÜV , - DNV , - GL	

**BOCAR GMBH**