

DIN Reactors AE 63 – 6300 Litres

Reactor Type AE 63 – 6300 Litres

Standard Design

Pressure: Inner vessel -1/6 bar,
Jacket -1/6 bar
Temperature: -25/+200 °C
Code: AD specifications, ASME

Materials

Vessel: P 275 NH (1.0487)
Glass-lining: RAS GLASS®
Clamp bolts: 24CrMo5, surface-treated
Gaskets: PTFE-enveloped flat seal
according to DIN 28148

Inspection

Water pressure test according
to AD or ASME specification
Glass-lining test according
to DIN 28063
High voltage test 20 kV/12 kV

Construction

Supporting structure: lugs,
feet, support ring,
special design to order
Shell: Jacket (AM),
Half coil design (HR)

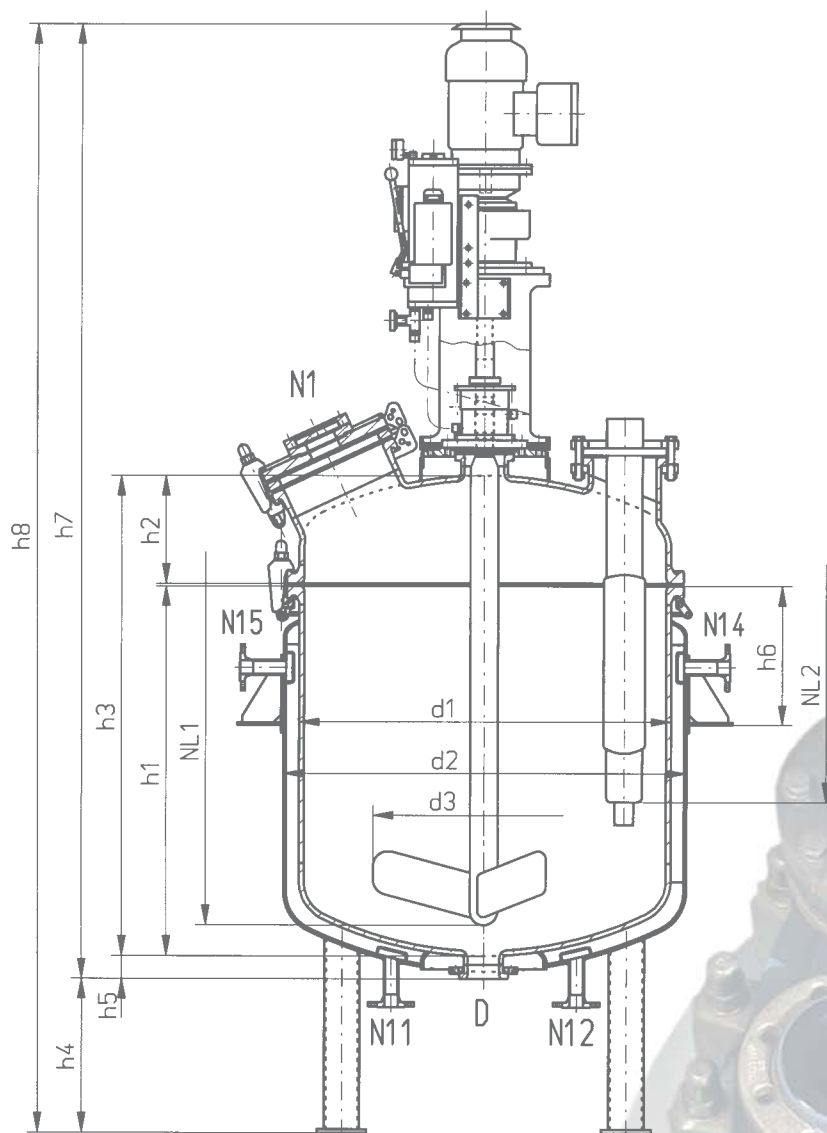
Internals

Drive: DIN drive TRD
with agitator flange according
to DIN 28137,
double mechanical seal with
thermosyphon unit
Agitator: Impeller (DIN 28157),
Turbine, Anchor (DIN 28158) (see
"Agitator Systems" information sheet)
Baffle: Paddle baffle
according to DIN 28146
Probes: Inserted temperature
measuring probe (TS probe),
melted-in dual PT 100 element
(TKE probe), monitoring of glass-lining
and vessel, conductivity measurement
(EBÜ-L probe), MultiTube, sample
extraction, filling level measurement,
pH value measurement

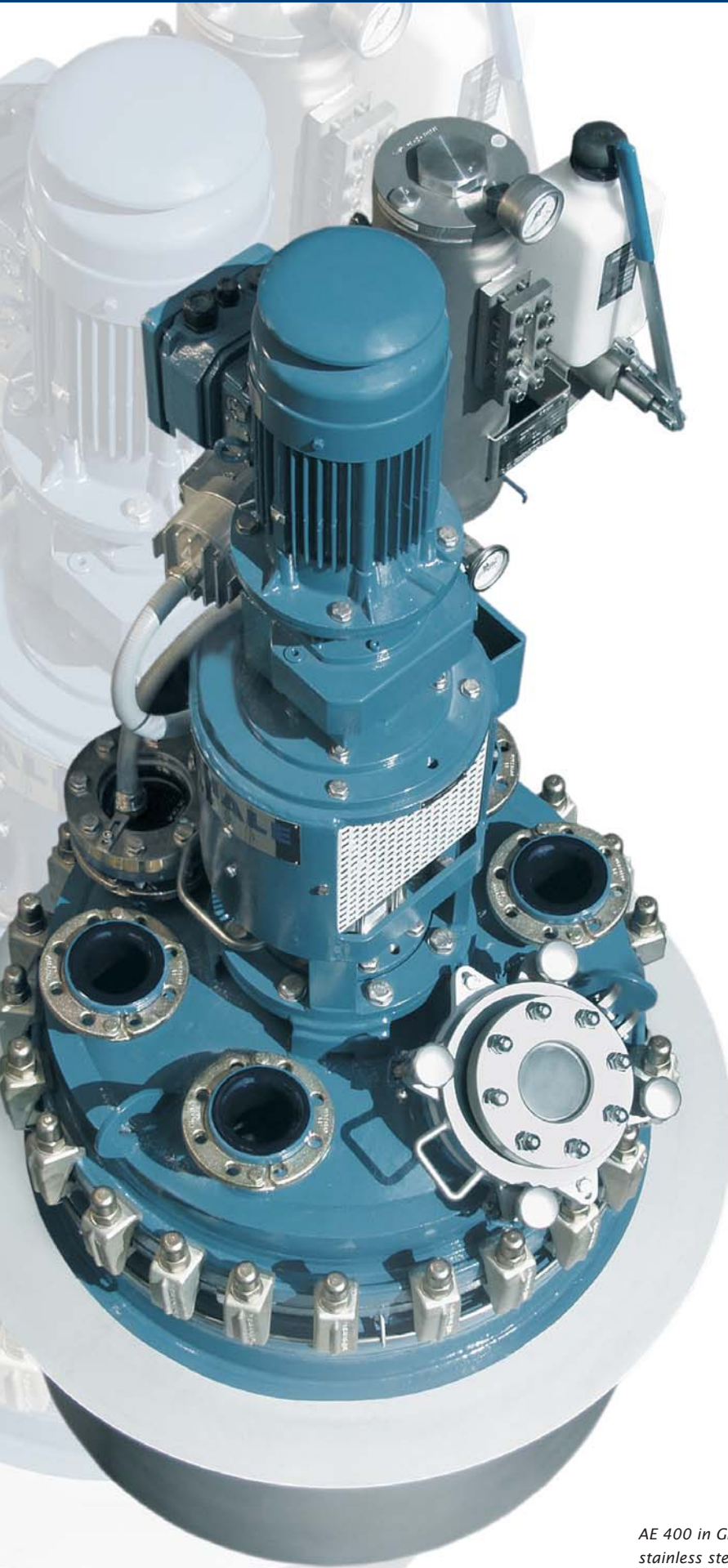
Order Example

RWA AE 630 – 1000 AM – D 100

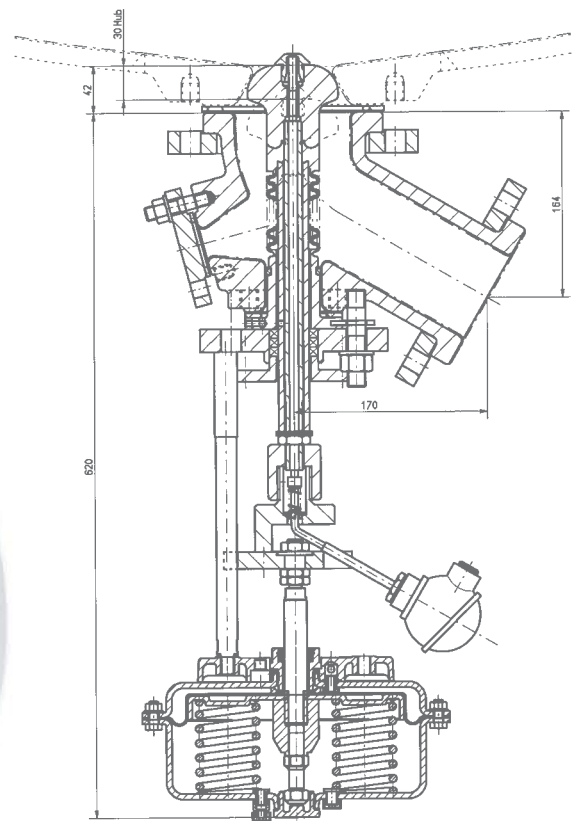
Reactor, type AE
Nominal capacity 630 litres
Nominal diameter 1000 mm
Jacketed (AM), Outlet nozzle,
configuration D
according to DIN 28140 – part 2



Special design to order
Technical modifications reserved
Edition March 2003

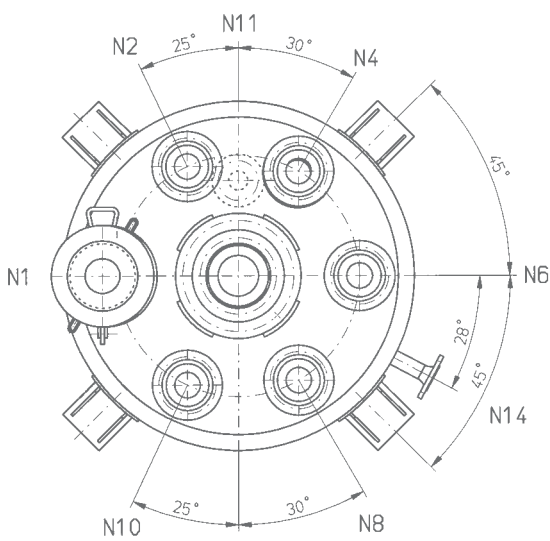


Computer-controlled flame-cutting robots guarantee high-precision synchronous cutting resulting in precise fitting accuracy of neck and nozzles

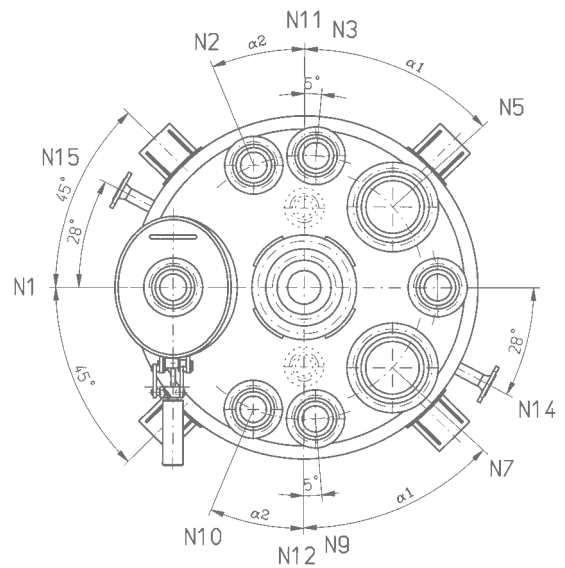


*Thale-bottom outlet valve (TBV)
DN 100/80 with pneumatic diaphragm drive, GMP-design*

AE 400 in GMP design and stainless steel isolation



AE 63 ÷ AE 630,
508 □ d1 □ 1000, plan view



AE 1000 ÷ AE 6300,
1200 □ d1 □ 2000, plan view



Our internal grinding machine for bodies, dished ends and nozzles works entirely automatically. Perfectly ground steel surfaces form the ideal substrate for the glass-lining



Our submerged-arc automatic welding machine does material-friendly welding based on minimal heat effect for up to 100 m of weld seams per unit



Quick release cover (QE)
Glass-lined stainless steel cover with small flange and sight glass for rapid opening



Gear support:
perfect connection of drive and agitator

Dimensions

| Nominal capacity | Total capacity | | Exchange surface | Main dimensions (mm) | | | | | | | | | | | Total weight |
|------------------|----------------|--------|------------------|----------------------|------|------|------|-----|------|-----|----|---------|--------------|--------------|--------------|
| | vessel | jacket | | d1 | d2 | d3 | h1 | h2 | h3 | h4 | h5 | h6 | h7 | h8 | |
| l | l | l | m ² | | | | | | | | | approx. | approx. | ≈ kg | |
| 63 | 95 | 29 | 0,55 | 508 | 600 | 300 | 400 | 180 | 590 | 300 | 68 | - | - | 2110 | 430 |
| 100 | 130 | 40 | 0,9 | 508 | 600 | 300 | 600 | 180 | 790 | 300 | 68 | - | - | 2310 | 520 |
| 160 | 210 | 60 | 1,25 | 600 | 700 | 360 | 700 | 200 | 910 | 300 | 68 | - | - | 2430 | 640 |
| 250 | 330 | 75 | 1,7 | 700 | 800 | 420 | 800 | 220 | 1030 | 300 | 68 | 340 | 2355 | 2655 | 850 |
| 400 | 535 | 116 | 2,5 | 800 | 900 | 480 | 1000 | 250 | 1260 | 500 | 78 | 365 | 2595 | 3095 | 1040 |
| 630 | 860 | 150 | 3,2 | 1000 | 1100 | 600 | 1000 | 300 | 1310 | 500 | 78 | 380 | 2790 | 3290 | 1400 |
| 1000 | 1470 | 210 | 4,6 | 1200 | 1300 | 720 | 1200 | 350 | 1560 | 500 | 74 | 410 | 3040 | 3540 | 2250 |
| 1600 | 2340 | 285 | 6,3 | 1400 | 1500 | 840 | 1400 | 400 | 1810 | 500 | 74 | 420 | 3455 (3765)* | 3955 (4265)* | 3100 |
| 2500 | 3480 | 370 | 8,2 | 1600 | 1700 | 960 | 1600 | 460 | 2070 | 500 | 70 | 450 | 3830 (4140)* | 4330 (4525)* | 3900 |
| 4000 | 5430 | 520 | 11,6 | 1800 | 1900 | 1100 | 2000 | 500 | 2510 | 500 | 70 | 480 | 4505 (4840)* | 5005 (5340)* | 5300 |
| 6300 | 8390 | 685 | 16 | 2000 | 2100 | 1100 | 2500 | 550 | 3060 | 500 | 86 | 545 | 5170 (5505)* | 5670 (6005)* | 7800 |

* Dimensions in brackets are valid for drive type S

| Nominal capacity | Nozzles (DN) | | | | | | | | | | | | | | Drive | | |
|------------------|--------------|--------|-------|-----|-------|-----|-----|---------|---------|-----|------|------|-------|-------|---------------------|-------------|-------|
| | N1 | N2 N10 | N3 N9 | N4 | N5 N7 | N6 | N8 | N11 N14 | N12 N15 | D | NL1 | NL2 | α1 | α2 | total headroom type | Ml. max. Nm | Pn kW |
| 63 | 100 | 40 | - | 80 | - | 80 | 50 | 40 | - | 80 | 970 | 475 | - | - | 125 K | 330 | 0,55 |
| 100 | 100 | 40 | - | 80 | - | 80 | 50 | 40 | - | 80 | 1170 | 675 | - | - | 125 K | 330 | 0,55 |
| 160 | 100 | 50 | - | 80 | - | 80 | 80 | 40 | - | 80 | 1290 | 750 | - | - | 125 K | 330 | 0,55 |
| 250 | 150 | 50 | - | 80 | - | 80 | 80 | 40 | - | 80 | 1450 | 830 | - | - | 200 K | 550 | 1,5 |
| 400 | 200 | 80 | - | 80 | - | 100 | 80 | 40 | - | 100 | 1655 | 1020 | - | - | 200 K | 550 | 1,5 |
| 630 | 250 | 100 | - | 100 | - | 150 | 100 | 50 | - | 100 | 1720 | 1040 | - | - | 250 K | 550 | 3 |
| 1000 | 350x450 | 100 | 100 | - | 200 | 100 | - | 50 | - | 100 | 1970 | 1200 | 47,5° | 22,5° | 250 K | 550 | 3 |
| 1600 | 350x450 | 100 | 100 | - | 200 | 100 | - | 50 | 50 | 100 | 2285 | 1200 | 45° | 30° | 300 K (S)* | 1100 | 4 |
| 2500 | 350x450 | 100 | 100 | - | 200 | 100 | - | 50 | 50 | 100 | 2540 | 1420 | 45° | 25° | 300 K (S)* | 1100 | 5,5 |
| 4000 | 500 | 150 | 150 | - | 250 | 150 | - | 50 | 50 | 100 | 3075 | 1800 | 45° | 25° | 400 K (S)* | 2100 | 7,5 |
| 6300 | 500 | 150 | 150 | - | 250 | 150 | - | 80 | 80 | 150 | 3595 | 2320 | 45° | 30° | 500 K (S)* | 2100 | 11 |

Tolerances acc. to DIN 28006 - part 2

Competence-Info-Center

We would like to advise you regarding the advantages of glass-lined equipment like:

- Glass-lined storage vessels and storage tanks
- RAS GLASS®
- Agitator and agitator systems
- Pipes and fittings
- Columns
- Heat exchangers
- Bottom outlet valves
- Measuring probes
- Reglassing
- Pressure filter

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