

**NEVER COMPROMISE ON THE HEALTH OF YOUR STAFF,  
THE EASE OF OPERATIONS OR YOUR ORGANISATION'S SAFETY**

**The world's only industry certified cast aluminium reducing couplings, to connect marine loading arms & hoses with tankships.**

**The high elongation of over 10% gives excellent prevention against burst, avoiding negative environmental impact caused by spill.**

**Up to half the weight of steel versions. For safe, effective and lighter connections.**



**EURAD CAST ALUMINIUM REDUCING COUPLINGS**

**To connect marine loading arms & hoses with tankships (since 1991).**

EURAD cast aluminium reducing couplings provide tank terminals and tankships a safe, effective and lighter solution (up to 50%) compared to common heavy steel reducing couplings. These aluminium reducing couplings are used to connect marine loading arms and hoses with tankship manifolds.

**Lighter, easier handling and safe**

Being much lighter is most significant for the safe and effective operational handling by staff at tank terminals and tankships. The lighter weight is also significant for the staff's individual safety and health, as this can prevent injuries and damages to back, shoulders, arms and knees.

Reducing couplings in general need to be able to withstand pressure without risk. Made in steel the couplings can be very heavy. Regular aluminium alloys are unable to reach the elongation criterion of 10%, demanded by the authorities for pressure containing parts, like reducing couplings. EURAD designed, developed and produces the world's only industry certified cast aluminium reducing couplings. The aluminium alloy applied by EURAD to manufacture the aluminium reducing couplings, has an elongation of over 10% and has been approved by TÜV Germany for pressure containing parts.

**Guaranteed**

Since 1991 the designs of the EURAD cast aluminium reducing couplings - supported by finite elements analysis and calculations - are verified and approved by the Dutch Governmental Organisation "Dienst voor het Stoomwezen" (the national controlling organisation for allowing pressure containing parts as components for industrial purposes). These aluminium reducing couplings have proven safe and effective for over 20 years now.

The aluminium alloy is highly corrosion resistant, ideal for use in sea coast environmental locations such as tankships and tank terminals. The couplings are free of cracks (dye-penetrant test according DIN54152-1). The high elongation of over 10% gives excellent prevention against burst, avoiding negative environmental impact caused by spill.

**Flanges and pressure classes**

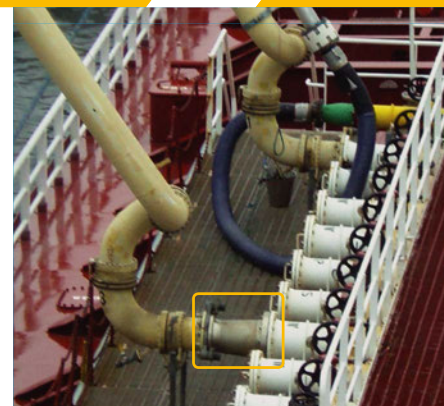
The flange connections can be drilled according the pressure classes of ANSI, DIN, BS, JIS and KS for bolted use, and are including protective stainless steel bushings. Flange connections for use with quick-connect coupler systems are available upon request.

**Supplied with internationally accepted certificates**

- Material and test certificate according to EN 10204-3.1
- Pressure test certificate according to DIN 50104 and DIN 3230
- Dye Penetrant certificate according to DIN 54152-1 (optional)
- PED certificate according to PED 97/23/EC Cat III Module H (optional)

**The aluminium couplings meet the following criteria**

- A proven design based on the excellent mechanical properties of the aluminium casting alloy and finite elements analysis and calculations.
- The aluminium casting alloy is approved and registered by TÜV Germany for the production of pressure containing parts, according to AD 2000-W0.
- Since 1991 the design, finite elements analysis and calculations are approved and certified by the National Dutch Governmental Organisation "Dienst voor het Stoomwezen".
- An excellent prevention against burst avoiding negative environmental impact caused by spill.
- Highly corrosion resistant and excellent for use in sea coast environments.
- Up to half the weight of common heavy steel reducing couplings.



#### EURAD ALUMINIUM REDUCING COUPLINGS

WHEN LARGEST FLANGE SIZE IS:

16" DN400

150#	PN10/16	300#	PN25	TYPE NR.
16"	DN400	16"	DN400	4285
16"	DN400	14"	DN350	4275
16"	DN400	12"	DN300	4265
16"	DN400	10"	DN250	4255

150#	PN10/16	150#	PN10/16	TYPE NR.
16"	DN400	16"	DN400	4230
16"	DN400	14"	DN350	4220
16"	DN400	12"	DN300	4210
16"	DN400	10"	DN250	4200

14" DN350

150#	PN10/16	300#	PN25	TYPE NR.
14"	DN350	14"	DN350	3885
14"	DN350	12"	DN300	3875
14"	DN350	10"	DN250	3865
14"	DN350	8"	DN200	3855

150#	PN10/16	150#	PN10/16	TYPE NR.
14"	DN350	14"	DN350	3820
14"	DN350	12"	DN300	3810
14"	DN350	10"	DN250	3800
14"	DN350	8"	DN200	3790

12" DN300

300#	PN25	150#	PN10/16	TYPE NR.
12"	DN300	12"	DN300	3345
12"	DN300	10"	DN250	3335
12"	DN300	8"	DN200	3325
12"	DN300	6"	DN150	3315

150#	PN10/16	300#	PN25	TYPE NR.
12"	DN300	8"	DN200	3100
12"	DN300	6"	DN150	2200

150#	PN10/16	150#	PN10/16	TYPE NR.
12"	DN300	12"	DN300	3720
12"	DN300	10"	DN250	3400
12"	DN300	8"	DN200	2900
12"	DN300	6"	DN150	2000

#### EURAD ALUMINIUM REDUCING COUPLINGS

WHEN LARGEST FLANGE SIZE IS:

10" DN250

300#	PN25	150#	PN10/16	TYPE NR.
10"	DN250	10"	DN250	3235
10"	DN250	8"	DN200	2515
10"	DN250	6"	DN150	1615

150#	PN10/16	300#	PN25	TYPE NR.
10"	DN250	10"	DN250	3235
10"	DN250	8"	DN200	2700
10"	DN250	6"	DN150	1800

150#	PN10/16	150#	PN10/16	TYPE NR.
10"	DN250	10"	DN250	3220
10"	DN250	8"	DN200	2500
10"	DN250	6"	DN150	1600

8" DN200

300#	PN25	300#	PN25	TYPE NR.
8"	DN200	6"	DN150	1500
8"	DN200	4"	DN100	0900
8"	DN200	3"	DN75	0695
8"	DN200	2"	DN50	0685

300#	PN25	150#	PN10/16	TYPE NR.
8"	DN200	8"	DN200	2400
8"	DN200	6"	DN150	1300
8"	DN200	4"	DN100	0700
8"	DN200	3"	DN75	0690
8"	DN200	2"	DN50	0680

150#	PN10/16	300#	PN25	TYPE NR.
8"	DN200	8"	DN200	2400
8"	DN200	6"	DN150	1400
8"	DN200	4"	DN100	0800
8"	DN200	3"	DN75	0665
8"	DN200	2"	DN50	0645

150#	PN10/16	150#	PN10/16	TYPE NR.
8"	DN200	8"	DN200	2420
8"	DN200	6"	DN150	1200
8"	DN200	4"	DN100	0600
8"	DN200	3"	DN75	0660
8"	DN200	2"	DN50	0640

#### EURAD ALUMINIUM REDUCING COUPLINGS

WHEN LARGEST FLANGE SIZE IS:

6" DN150

300#	PN25	300#	PN25	TYPE NR.
6"	DN150	4"	DN100	0500
6"	DN150	3"	DN75	0185
6"	DN150	2"	DN50	0155

300#	PN25	150#	PN10/16	TYPE NR.
6"	DN150	6"	DN150	1000
6"	DN150	4"	DN100	0300
6"	DN150	3"	DN75	0175
6"	DN150	2"	DN50	0145

150#	PN10/16	300#	PN25	TYPE NR.
6"	DN150	6"	DN150	1000
6"	DN150	4"	DN100	0400
6"	DN150	3"	DN75	0165
6"	DN150	2"	DN50	0135

150#	PN10/16	150#	PN10/16	TYPE NR.
6"	DN150	6"	DN150	0980
6"	DN150	4"	DN100	0200
6"	DN150	3"	DN75	0160
6"	DN150	2"	DN50	0130

4" DN100

300#	PN25	300#	PN25	TYPE NR.
4"	DN100	3"	DN75	0120
4"	DN100	2"	DN50	0110

300#	PN25	150#	PN10/16	TYPE NR.
4"	DN100	4"	DN100	0100
4"	DN100	3"	DN75	0088
4"	DN100	2"	DN50	0078

150#	PN10/16	300#	PN25	TYPE NR.
4"	DN100	4"	DN100	0100
4"	DN100	3"	DN75	0085
4"	DN100	2"	DN50	0075

150#	PN10/16	150#	PN10/16	TYPE NR.
4"	DN100	4"	DN100	0090
4"	DN100	3"	DN75	0080
4"	DN100	2"	DN50	0070

## HOW TO USE THE EURAD CAST ALUMINIUM REDUCING COUPLINGS TABLE

Start by looking up the largest flange size of the preferred EURAD cast aluminium reducing coupling together with the preferred pressure class flange drilling (in ANSI or DIN). Then look up the opposite flange size with the preferred pressure class flange drilling (in ANSI or DIN) in the next column. When the type is listed, please use the type number in your inquiry.

When your preferred type, size or pressure class flange drilling (such as BS, JIS or KS) is not listed, please do still contact us to discuss possibilities.

- When sending your inquiry, please inform us per type about:
- the applicable operating pressure
  - the types, sizes and pressure class flange drillings for both flanges
  - extra preferences, like adapted to quick-connect coupler systems
  - anticipated amounts per type

Send your inquiry to [info@eurad.com](mailto:info@eurad.com) and use in the subject line **INQUIRY FOR COUPLINGS**. You can also call us. Thank you.

*This table is an overview of the current available coupling types. Alternative coupling types can be made available upon request.*

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# EURAD

INDUSTRIAL VALVES & CAST ALUMINIUM PRODUCTS