CAST S.p.A. Company Presentation



HISTORY FACTS

1070

1978	Creation of the company
1979	Transfer of the main location to Turin
1981	Change of the company type to S.a.s.
1983	Creation of the first production plant in Cremella
1984	Change of the company type to S.r.l. (Limited)
1987	Beginning of export
1990	Transfer of the main location to Volpiano (current location)
1991	Additional buildings added to the Volpiano location
1992	Participation at the first international exhibition (Milano Fluidtrans Compomac)
1993	Creation of the production plant in Casalgrasso
1994	ISO 9000 certification obtained
1995	Widening of the product range to BSI 5200
1996	Patent of DIN 2353 cutting ring "B4" is obtained
1997	Additional buildings added to the location of Volpiano and Casalgrasso
1997	Participation at the first Hannover Messe
1998	Widening of the product range to SAE J514 (JIC 37°)
1999	Creation of Modena sales branch
1999	DVGW product type approval
2000	Additional buildings added to the Volpiano location and new offices
2001	DNV product type approval for DIN fittings



THE LAST DECADE

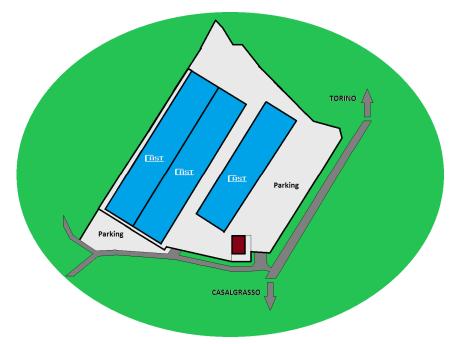
2002	RINA product type approval for DIN fittings
2002	Widening of the product range to ORFS
2003	Creation of Treviso sales branch
2003	Export turnover exceeds domestic turnover
2004	Doubling of the location of Casalgrasso from 3.500 to 7.000 square meters
2004	Widening of the product range to hose fittings
2005	DNV product type approval for JIC fittings
2005	First semi-automatic assembly machine received
2005	Dismissal of Cremella production plant
2006	First new-generation production machine received
2006	Widening of the product range to rubber and thermoplastic hoses
2006	Second semi-automatic assembly machine received
2007	Second and third new-generation production machine received
2007	Third fully automatic assembly machine received
2008	Additional buildings added to the Casalgrasso location (5.000 square meters)
2008	Fourth and fifth new-generation production machine received
2009	Sixth new-generation production machine received
2009	Fourth, fifth and sixth fully automatic assembly machines received
2009	DNV product type approval for ORFS fittings
2010	Seventh new-generation production machine received
2011	Seventh fully automatic assembly machines received



THE STATE OF ART

- Up to date CAST S.p.A. employes about 164 workers
- The total covered surface is over 20,000 square meters
- The 2011 total turnover has been over 37,000,000 Euros (48,000,000 USD)
- Total production potential over 60,000,000 pieces per year
- ISO 9001:2008 certified since 1994
- Full range of DIN 2353, SAE J 514, ORFS, BSI 5200 and Hose fittings both in carbon and stainless steel
- Worldwide export in over 60 different countries











The Production Building n. 1 is approximately 3,500 Sq./m

In this building are concentrated all multi-spindle machines as well as CNC production machines. All production machines are equipped with automatic chargers.

Additionally in this building are located the fitting washing machines, the heat treatment ovens as well as four fitting bending machines two of which are fully automatic.

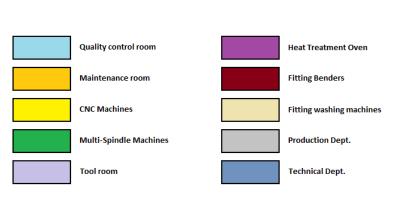
In this building the traditional way of manufacturing is concentrated and handled. The core production is cutting rings, stainless steel as well as straight parts in low and medium production batches.

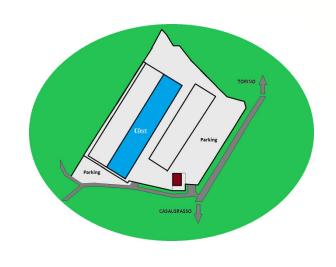


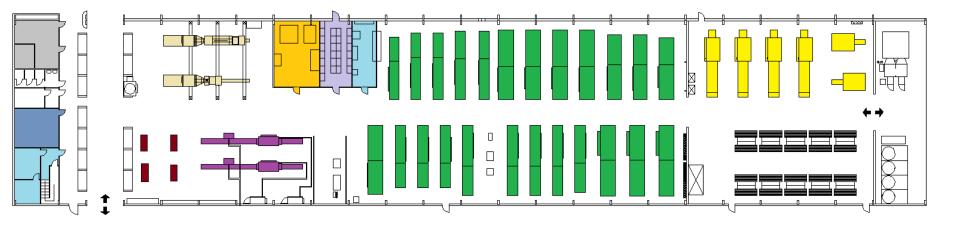
















The Production Building n. 2 is approximately 3,500 Sq./m

Here a fully automatic convoy sistem recovers all metal scraps from all production machines and concentrates it into a oil-metal centrifuge filter.

The metal scraps will be picked up by an outer company specialized into reclycilng this type of garbage, while the oil will be filtered, chemically treated an reused untill is fully exhausted.

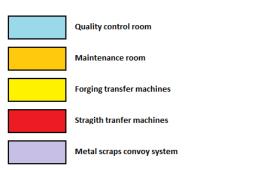
In this building there are concentrated all forging tooling machines as well as the new generation production machines. All production machines are equipped with automatic chargers and numerical controlled spidles.

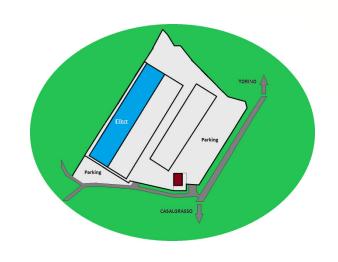
Here are manufactured high and very high volumes production batches.

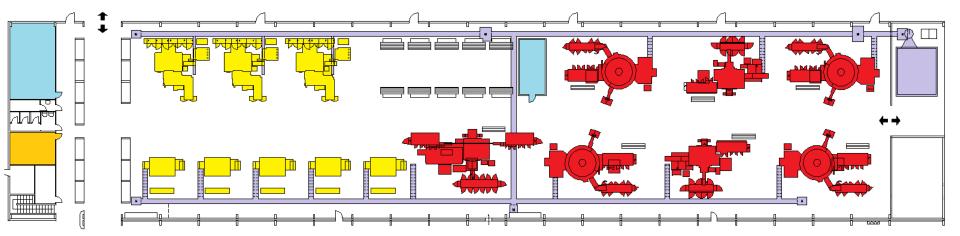




















ASSEMBLY BUILDING



The Assembly Building is approximately 5,000 Sq./m in two floors.

In the underground floor there is the stock of raw steel of bars and forgings, and has a surface of 2,500 sq./m.

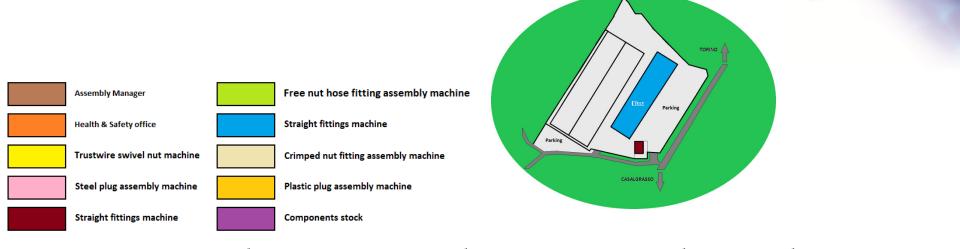
The ground floor there is divided in two sections. The first section is the stock of the components used for the assemblies. The second section is filled with the assembly machines which are:

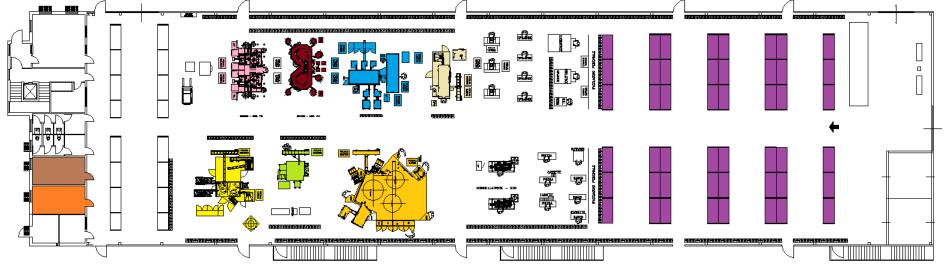
- 1. Fully automatic trust wire swivel nut assembly machine;
- 2. Fully automatic free nut hose fitting assembly machine;
- 3. Fully automatic crimped nut fitting assembly machine;
- 4. Fully automatic steel plug assembly machine;
- 5. Fully automatic plastic plug assembly machine;
- 6. Fully automatic adjustable assembly machine;
- 7. Semi-automatic straight fittings assembly machine #1;
- 8. Semi-automatic straight fittings assembly machine #2.

Assembly machines have on board quality controls including thread control, missing component video camera, free drilled hole as well as other checks specifically designed for each specific fitting type.

ASSEMBLY BUILDING







ASSEMBLY BUILDING





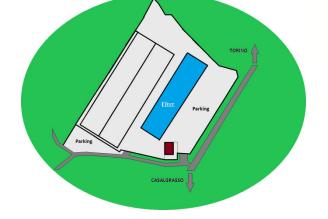




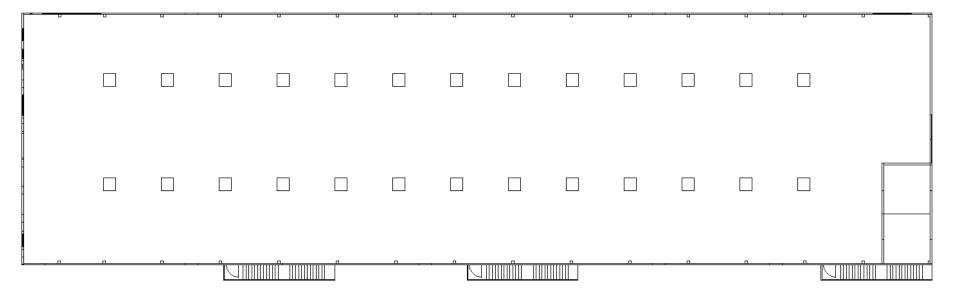


ASSEMBLY BUILDING (undergound)





Steel, stainless steel bars and forgings stock



ASSEMBLY BUILDING (undergound)













CERTIFICATO N.

90/94/S

CERTIFICATE No.

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

CAST S.P.A.

STRADA BRANDIZZO 404/408 BIS 10088 VOLPIANO (TO) ITALIA

NELLE SEGUENTI UNITÀ OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

STRADA BRANDIZZO 404/408 BIS 10088 VOLPIANO (TO) ITALIA VIA REG. GAMNA, 3/5 12030 CASALGRASSO (CN) ITALIA

È CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2008

PER I SEGUENTI CAMPI DI ATTIVITÀ / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

EA:17

PROGETTAZIONE E PRODUZIONE DI RACCORDI PER ALTA PRESSIONE IN ACCIAIO AL CARBONIO ED INOSSIDABILE AD USO INDUSTRIALE PER TUBAZIONI DA 4 A 42 mm DI DIAMETRO. ASSISTENZA TECNICA

DESIGN AND PRODUCTION OF HIGH PRESSURE FITTINGS IN CARBON AND STAINLESS STEEL FOR INDUSTRIAL APPLICATIONS FOR PIPING WITH A DIAMETER BETWEEN 4 AND 42 mm. TECHNICAL ASSISTANCE

La validità dei presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo dei sistema di gestione con periodicità triennale The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management syste L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA: Regolamento per la Certificazione di Sistemi di Gestione per la Cualità The use and validity of this certificate are subject to compliance with the RINA document : Rules for the certification of Quality Management Systems

Prima emissione Emissione corrente Data scadenza Expiry Date

28.02.1994 26.03.2012

31.03.2015

(Managing Director) Marsuy

RINA Services S.p.A.

Dott. Roberto Cavanna

ACCREDIA 7

CISQ is a member of

QNet, the association of the world's first tion bodies, is the larges IQNet is composed of more than 30

Per informazioni sulla validità del certificato, visitare il sito www.fna.org

validity of the certificate, you can visit the site www.rina.org

Reference is to be made to the

Quality Manual for details regarding the exemptions from the requirements of the standard

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale

CISQ is the Italian

Federation of management system Certification Bodies



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and its partner CISQ/RINA

hereby certify that the organisation

CAST S.P.A.

STRADA BRANDIZZO 404/408 BIS 10088 VOLPIANO (TO) ITALIA in the following operative units

STRADA BRANDIZZO 404/408 BIS 10088 VOLPIANO (TO) ITALIA VIA REG. GAMNA, 3/5 12030 CASALGRASSO (CN) ITALIA

for the following field of activities

DUCTION OF HIGH PRESSURE FITTINGS IN CARBON AND STAINLESS STEEL FOR INDUSTRIAL APPLICATIONS FOR PIPING WITH A DIAMETER BETWEEN 4 AND 42 mm. TECHNICAL ASSISTANCE

has implemented and maintains a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2008

Registration Number:

IT-2631 Current Issue: 2011-04-07

> reurens I wal Gianrenzo Prati

> > President of CISO

AENOR Spain AFAQ AFNOR France AIB-Vincotte International Belgium ANCE Mexico APCER Portugal CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Germany DS Denmark ELOT Greece FCAV Brazil FONDONORMA Venezuela HKQAA Hong Kong China ICONTEC Colombia IMNC Mexico Inspecta Certification Finland IRAM Argentina JQA Japan KFQ Korea MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland QMI Canada Quality Austria Austria RR Russia SAI Global Australia SII Israel SIQ Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia YUQS Serbia

IQNet is represented in the USA by: AFAQ AFNOR, AIB-Vincotte International, CISQ, DQS, NSAI Inc., OMI and SAI Global *The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.cc



First Issue / 1994-02-28 RANE Ch. Nohmy

René Wasmer

President of IQNET

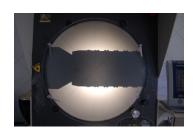
IQNet partners*:

QUALITY CONTROL AND TEST MACHINE













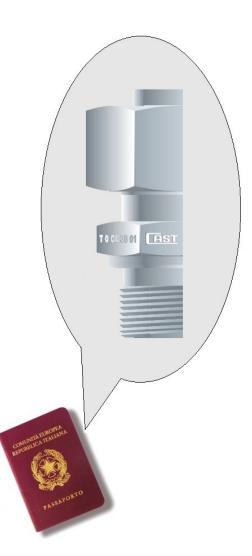






FITTING PASSPORT





We are so confident about our fittings high quality level that we mark each fitting with a specific traceability code which carries the following information:

- Manufacturer's logo
- Year of production
- Manufactured in the EEC (not EC trademark)
- Type of used steel
- · Raw steel heat number

Thanks to this sistem, which we believe to be worldwide most advanced and unique, we are able to track each single manufactured fitting up to the detailed 3.1 raw steel certificate, as well as the original production batch including the manufacturing machine, assembly machine, if any, and all the related documents from the steel bar to the customer's shelf.

Besides beeing an ISO norm requisite this grants the final customer a knowledge of the full manufacturing chain in each detail.

This exclusive feature available from CAST S.p.A. has been appreciated by several Worldwide known OEM's such as:



CAST S.p.A. Attn: Mr. Alessandro Cosa Strada Brandizzo 404/408 bis 10088 Volpiano (TO) Italy

Örebro, 2006-03-10

Dear Mr Cosa,

Qualified manufacturer

We herewith confirm that Cast, S. p. A. is a qualified manufacturer of high pressure fittings used by the divisions of LHD, TME, RTE, SDE, and DC within the company of Atlas Copco Rock Drills AB.

Should you require more information, please do not hesitate to contact our office.

Yours sincerely,

ATLAS COPCO ROCK DRILLS AB

Ronnie Eriksson Strategic Purchaser

Atlas Copco Rock Drills AS

Atlas Copco Rock Drills AB SE-701 91 Örebro

Visitors address: Klerkgatan 21 Örebro, Sweden

Phone: +48 (0)19 670 7000 Reg Information:
Fax: +48 (0)19 670 7070 Reg No /Org nr 556077-9018
VAT No. SE556077901801
Mons reg.r or 1556077-9018-01
Reg office/Ort för styrelse: Örebro

Bank: Skandinaviska



Aramco Overseas Company B.V. Schuttersveld 14 P.O. Box 222 2300 AE Leiden, The Netherlands Telephone: +31 (0)71 516 0600 Fax: +31 (0)71 516 0610 K.v.K. LEIDEN No. 28040948 B.T.W. No. NL.00.85.87.899.B01

CAST S.P.A. Attn: Mr. Alessandro Cosa 404/408 bis Strada Brandizzo 10088 Volpiano (TO) <u>Italy</u>



Leiden, August 19, 2003

Dear Mr. Cosa,

Re: Company Registration

We herewith confirm that you are registered with Aramco Overseas Company BV and your Vendor ID is 10028738.

Following material is linked to your ID:

9COM	DESCRIPTION
6000000412	FITTING; HYDRAULIC; ADAPTER; ELBOW

Should you require any further information, please do not hesitate to contact our office.

Yours truly,

Robert Pieschel Vendor Liaison Group Aramco Overseas Company BV

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vr293





Palfinger Gru Idrauliche s.r.l.

CAST S.p.A Att. Mr. Alessandro Cosa Strada Brandizzo 404/408 bis 10088 VOLPIANO (TO)

Cadelbosco di Sopra (RE), 01.02.2007

Subject: Qualified Supplier

It is our pleasure to confirm that Cast S.p.A is our qualified and rated A supplier in high pressure fittings that are mounted on our cranes produced in Palfinger Gru Idrauliche s.r.l.

We are looking forward to continue excellent cooperation in with you as we believe in your constant improvement in quality of your products and production processes.

Yours sincerely,

Dipl. Ing. Martinovic Dejan Quality Manager

Palfinger Gru Idrauliche S.r.l.



Since 2007

1/1

WWW.palfinger.com

Patfinger Gru Idrauliche s.r.l.

Page No.: 13 of 28 Document No.: SP-G-D393-D394 Specifics & Clarifications

Version 1.0
Original Date: 2005-12-09

Revised Date: Print Date: 2005-12-08

Machinery & Equipment Specification – Specific Requirements and

Clarifications – Project D393 & D394 & C706-Duplicate Pri

3.8.2.2 Approved Fluids Supplier Options

Product Category	Content/Components	Approved Suppliers	Additional Requirements/ Comments
Hydraulics	Power Units Control valves (directional, proportional, servo, pressure, flow) Check and PO-check valves Modular stack valves and bolt kits Sub plates and manifolds Filters; return-line and pressure-line Accumulators and lockable safety blocks	Bosch-Rexroth, Parker, Nachi, Vickers	Select (1) Project Book
	- Cylinders and Actuators	Bosch-Rexroth, Hydro-line, Parker	Not required to select same supplier as Project Book.
	- Metric steel tube fittings	Parker, Cast	Applies to hydraulics, pneumatics and lubrication
Pneumatics	Control valves (directional, proportional, servo, pressure, flow) In-line valves (manual and mechanical) Regulators/Filters/ Mufflers/ Silencers Vacuum pump/ generators Booster/ intensifiers / reservoirs	Numatics, SMC, Bosch-Rexroth	Select (1) Project Book
	- Pneumatic Cylinders and Actuators	Numatics, SMC	Not required to select same supplier as Project Book
	- PO Check Valves	Ross, Ladco	Manual and auto relief feature required
	Lockout Valves Metric "push lock" polyurethane tube fittings	Ross Norgren, Bosch-Rexroth	Metal versions only
Lubrication	Filters Single line parallel/series progressive/piston distributor systems Spindle lubrication Circulating oil systems Reservoirs Electrically driven oil and grease pumps Float/level/pressure/proximity switches	Trabon, Vogel	Select (1) Project Book





Since 2005



Certificado de Registro e Classificação Cadastral - CRCC

Emitente No. Rev. MATERIAIS 027267 01

Pág. 002

Data Emissao

10 de Fevereiro de 2012

Data Validade

18 de Setembro de 2012

Esta revisão substitui e cancela as anteriores.

HENNINGS VEDAÇÕES HIDRÁULICAS LTDA

CNPJ/CPF: 83.748.772/0001-33

Em caso de revenda/distribuição de produtos de origem estrangeira, o pagamento do material estará vinculado à apresentação do comprovante de importação averbado.

Este fornecedor está habilitado a fornecer as seguintes especialidades/materiais:

Atenção! Quando do processo de contratação/compra, a habilitação de cada material deverá ser confirmada no sistema de informação da PETROBRAS (SAP R/3), em decorrência de possíveis alterações na qualificação técnica que possam ocorrer durante a vigência do presente CRCC.

Distribuição de Fabricante: MANULI RUBBER INDUSTRIES S.P.A. (HIDRAULICA)

CNPJ: Estrangeiro

Famílias de material :

001 - 98.002.122

Mangueira montada ;para linha hidráulica ;

Requisitos Técnicos: ISO 9001

Detalhamento:

Diâmetro: 3/4" (máx.)

Comprimento: 7400 mm (máx.)

Tipo de Inspeção : B - Final fábrica com testemunho

Distribuição de Fabricante: CAST SPA

CNPJ: Estrangeiro







SEGRETARIATO GENERALE DELLA DIFESA E DIREZIONE NAZIONALE DEGLI ARMAMENTI VI REPARTO - 3º Ufficio

Standardizzazione ed Assicurazione Qualità dei Materiali

MINISTERU DELLA DIFESA SEGREDIFESA

M D GSGDNA6 0012186 22-12-2008



PDC: Op.Amm. De Santis Marcella Via XX Settembre 123/A 00187 - Roma Tel. 06 4735 4031 - Fax. 06 4735 4706 e-mail: ncbit.belp@sgd.difesa.it sito web: www.codmat.difesa.it

OGGETTO: Codificazione NATO dei materiali. Richiesta pervenuta da: DENMARK. Contratto SIAC 4PZS083320000036 del 27 novembre 2008.

> A: CAST SPA STRADA BRANDIZZO 404-408 BIS 10088 VOLPIANO (TORINO)

- 1. Si comunica che l'Ufficio di Codificazione in oggetto ha richiesto di codificare gli articoli in Allegato 1, ascritti a materiale di presunta produzione di codesta Società.
- 2. Al fine di procedere all'avvio dell'iter codificativo dei suddetti articoli, si prega codesta Ditta di confermare la correttezza dei dati identificativi riportati nella lista allegata, ovvero fornire le eventuali correzioni, con cortese sollecitudine e comunque non oltre il 11 gennaio 2009. La conferma dei dati potrà essere effettuata via fax direttamente a questo Ufficio o all'indirizzo email di cui sopra riportando il numero di contratto SIAC.
- 3. Inoltre, nel caso in cui gli articoli risultino effettivamente di vostra produzione e allo scopo di conferire maggiore valenza alla codificazione dei materiali in questione, dovranno essere forniti i dati identificativi (schede CM-03 e GM-02) secondo quanto disposto dalla normativa in vigore, con procedura UCID97 (sia on line sia off line, scaricando la procedura dal sito web di questo Ufficio), entro il 10 febbraio 2009.
- 4. Quanto sopra potrà facilitare, nell'ambito dell'organizzazione logistica delle Forze Armate nazionali e NATO, eventuali future forniture di codesto materiale.





PRODUCT TYPE APPROVALS





Zertifikat über ein DIN-DVGW Prüfzeichen certificate for a DIN-DVGW test mark

NG-4502AU0117

Registriernummer registration number

Anwendungsbereich

Produkte der Gasversorgung

field of application

products of gas supply

Zertifikatinhaber owner of certificate

CAST S.p.A.

Strada Brandizzo 406/408, I-10088 Volpiano (TO)

Vertreiber

CAST S.p.A.

distributor

Strada Brandizzo 406/408, I-10088 Volpiano (TO)

Produktart

gas pipes and fittings: soluble connection for metal pipes (4502)

product category

Produktbezeichnung

Separable unthreaded connection for metal pipes

product description

Modell

CAST B3

model

Bestimmungsländer

DE

countries of destination

type testing: 129063eB1 from 26.01.2004 (GWI)

Prüfberichte test reports

Prüfgrundlagen DIN 3387-1 (01.01.1991)

basis of type examination

Ablaufdatum / AZ

28.02.2009 / 04-0051-GNV

date of expiry / file no.

ed by, sheet, head of certification body

DVGW-Zertifizierungsstelle - von der Deutschen Akkreditierungsstelle Technik (DATech) e.V. akkreditiert für die Konformitätsbewertung von Produkten der Gasund Wasserversorgung

DVGW Certification Body - accredited by Deutsche Akkreditierungsstelle Technik (DATech) e.V. for conformity assessment of products of gas and water supply



DAT-ZE-009/96-11

DVGW Deutsche Vereinigung des Gas- und Wasserfaches e.V.

Technisch-wissenschaftlicher

Zertifizierungsstelle

Josef-Wirmer-Straße 1-3 D-53123 Bonn

Telefon +49 (228) 91 88 807 Telefax +49 (228) 91 88 993



Type Approval Certificate Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 1243810 HH

Company CAST S.p.A.

> Strada Brandizzo 404/408 10088 Volpiano, ITALY

Product Description PIPE UNIONS

Type Bite Type Fittings B3

L. H - Series

Environmental Category

Technical Data / TECHNICAL DATA

Fitting material carbon steel CF9SMnPb36, 11SMnPb37 Range of Application

Metallic sealing with cutting ring type B3

M.A.W.P: L-Series 6 - 18 [mm] 22 - 42 [mm] 315 [bar] 160 [bar]

H-Series 6 - 14 [mm] 16 - 30 [mm] 38 [mm] 630 [bar] 400 [bar] 315 [bar]

Temperature range: -20 [°C] up to 120[°C] Size Range: 6 - 42 [mm] for L-Series

6 - 38 [mm] for H-Series

RANGE OF APPLICATION

The above mentioned pipe unions of bite type with cutting ring B3 are type approved as compression couplings for the use in piping systems according to the Rules I-1-2 Machinery Installations, Section 11, Table 11.13/ 11.14, compression coupling, bite type, fire resistant. For service temperatures above 40°C the reduction in pressure specified by the manufacturer is to be observed.

Test Standard VI-7-8: Test Requirements for Components and Systems of Mechanical Engineering

and Offshore Technology. Edition 2008

Documents - Test report according to GL Approval Ref.-No. 09-108886, 11-135829

- Catalogue data sheet

- ISO 9001:2000 Certificate

Remarks The selection of the pipe unions for the corresponding service and the right

installation are to be in accordance with the instructions of the manufacturer.

Valid until 2016-12-01

Page 1 of 1 Type Approval Symbol

File No. II.C.05 Hamburg, 2011-11-24

Germanischer Lloyd Hanspeter Raschle Sven Dudszus

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



DET NORSKE VERITAS Type Approval Certificate

CERTIFICATE NO. P-12886

This Certificate consists of 4 pages

This is to certify that the

Pipe Couplings, Bite and Compression Type

792.21

with type designation(s)

L-Series, S-Series

Manufactured by

CAST S.P.A.

VOLPIANO TO, Italy

is found to comply with

Det Norske Veritas' Rules for Classification of Ships Det Norske Veritas' Standards for Certification 2.9 No. 5-792.20

Application

The couplings may be used in the following: Hydraulic, Fuel, Lubrication Oil, Compressed Air, Steam and Condensate, Freshwater, Seawater and Marsh Gas systems.

 Type:
 Temperature range:
 Max. working press.:
 Sizes:

 L-Series
 see cert.
 315 bar - 160 bar (see cert.)
 6 to 42 mm

 S-Series
 see cert.
 630 - 315 bar (see cert.)
 6 to 38 mm

Place and date Høvik, 2008-09-10 for Det Norske Veritas AS This Certificate is valid until 2012-12-31





DET NORSKE VERITAS Type Approval Certificate

CERTIFICATE NO. P-13209

This Certificate consists of 3 pages

This is to certify that the

Pipe Couplings, Flared or Welded Nipple Type

792.22

with type designation(s)

Cast ORFS SAE J 1453 90° flared fittings

Manufactured by

CAST S.P.A.

VOLPIANO TO, Italy

is found to comply with

Det Norske Veritas' Rules for Classification of Ships Det Norske Veritas' Standards for Certification 2.9 No. 5-792.20

Application

The couplings may be used in the following systems: Hydraulic, Fuel, Lubrication oil, Compressed air, Steam and Condensate, Fresh and Sea water and Marsh gas systems.

Temperature range: -60 °C to +200 °C, see certificate

Max. working press.: 630 bar, see certificate

Sizes: 6 to 38 mm

Place and date Høvik, 2009-07-28 for Det Norske Veritas AS This Certificate is valid until 2013-12-31



DET NORSKE VERITAS TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. P-13210

This Certificate consists of 4 pages

This is to certify that the

Pipe Couplings, Flared or Welded Nipple Type

792.22

with type designation(s)

SAE J 514 37° flared pipe fittings

Manufactured by

CAST S.P.A.

VOLPIANO TO, Italy

is found to comply with

Det Norske Veritas' Rules for Classification of Ships
Offshore Standard DNV-OS-D101, Marine and Machinery Systems and Equipment
Det Norske Veritas' Standards for Certification 2.9 No. 5-792,20

Application

The couplings may be used in the following systems: Hydraulic, Fuel, Lubrication oil, Compressed air, Steam and Condensate, Fresh and Sea water and Marsh gas systems.

Temperature range: -60 °C to 200 °C (see cert.)

Max. working press.: Depending on size, see cert.

Sizes: 6 to 38 mm.

Place and date Høvik, 2009-07-28 for Det Norske Veritas AS This Certificate is valid until 2013-06-30



CERTIFICATO DI OMOLOGAZIONE DI TIPO N. MAC081608CS



Si certifica che il seguente prodotto soddisfa le prescrizioni delle norme qui specificate.

Descrizione Raccordi per tubi

Tipo Ad anello tagliente DIN 2353

Richiedente CAST SPA

STRADA BRANDIZZO 404

408 BIS

10088 VOLPIANO (TO)

Fabbricante CAST SPA

Luogo di produzione STRADA BRANDIZZO 404

408 BIS

10088 VOLPIANO (TO)

Norme di riferimento Parte C, Cap. 1, Sez. 10 delle Norme del RINA

Rilasciato a Genova il 22 Settembre 2009. Questo Certificato è valido fino al 22 Settembre 2014

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Francesco Sciacca

Questo Certificato e' composto di 1 pagina e di 1 allegato.

Questo Certificato annulla e sostituisce il Certificato MAC/63702/1/TO/02 emesso in data 27 Novembre 2002.

RINA Società per azioni Vier Corsica, 12 - 16128 Genova 161 +39 010 53851 Fax +39 010 5381000