



1978 - 2025
FOR A CONSTANT IMPROVEMENT

CAST SpA ORGANIZATION

IL GRUPPO - THE GROUP



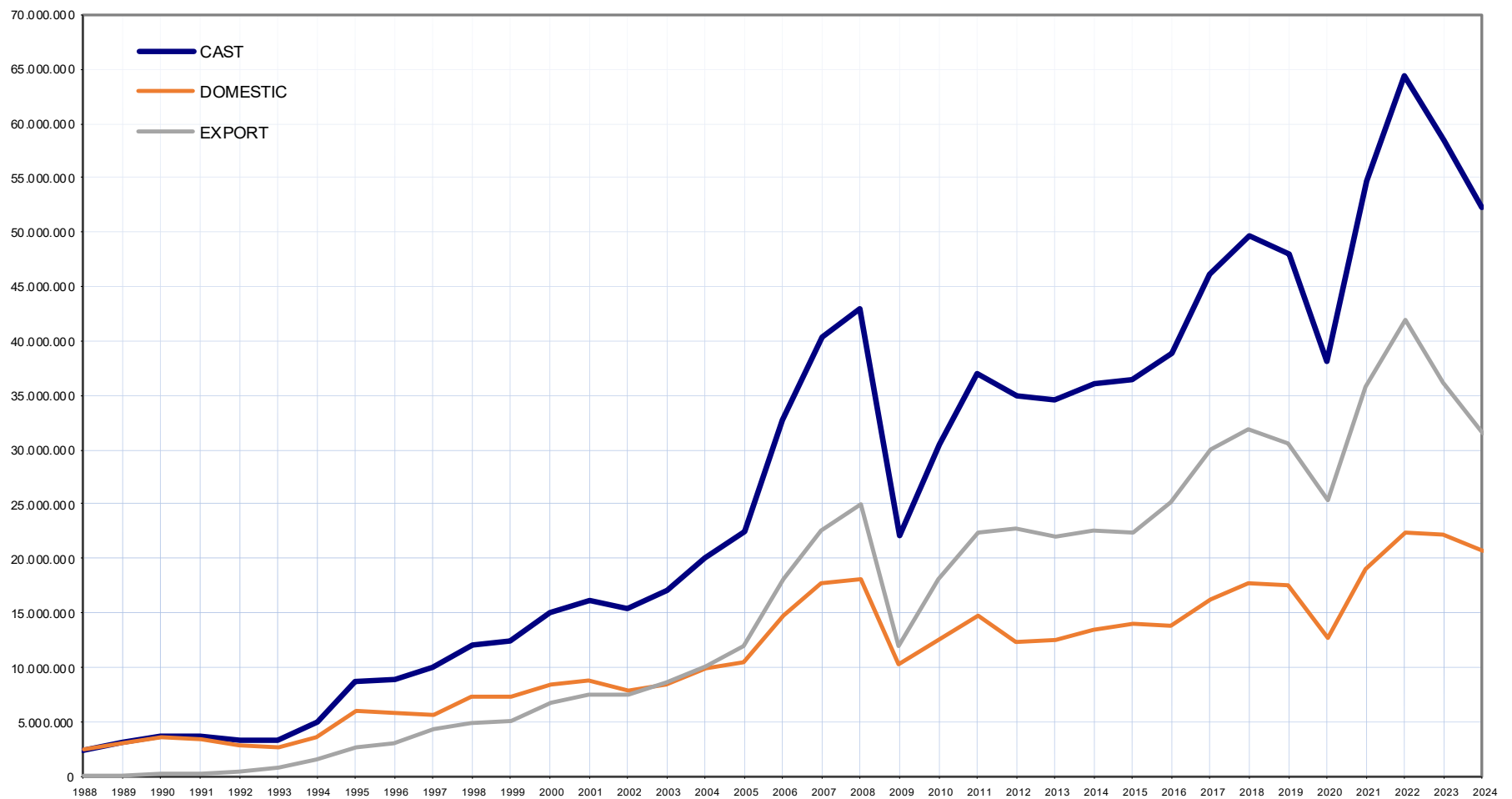
- Founded in Torino in 1978
- Owned by 3 shareholders
- Board: 6 members
- Volpiano – Management and main Warehouse (7.000 sqm)
- Casalgrasso - Production Plant (15.000 sqm)
- Expansion plan approved in Casalgrasso (100.000 sqm of owned land)
- Sales branches in Italy, France and Germany

CAST SALES FIGURES



- Current Export Sales more than 60% of total turnover
- Distributors in about 70 countries worldwide
- Sales network mostly organized by partner area distributors
- Turnover record above 64 million Euro in year 2022
- Current employees: about 230

ANNUAL TURNOVER (EURO)



CAST PRODUCT RANGE



DIN 2353



SAE J514



BSI 5200



ORFS

- DIN 2353 – ISO 8434-1
Cutting ring fittings
- SAE J514 – ISO 8434-2
JIC 37° fittings
- BS 5200 – ISO 8434-6
Adaptors
- SAE J1453 – ISO 8434-3
ORFS 90° fittings
- Check valves

- Available in carbon and stainless steel
- 100% made in Italy

CAST PRODUCT RANGE



- SAE J516 – ISO 12151
Hose fittings
Standard range and Interlock range
In carbon and stainless steel
100% made in Italy



- Hydraulic hoses made by Semperit and branded CAST
Braided hoses 1SN, 2SN, 1SC, 2SC
Spiral hoses 4SP, 4SH, R13
Thermoplastic hoses R7

COMPANY QUALITY



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 9001:2015

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

PROGETTAZIONE E PRODUZIONE DI RACCORDI PER ALTA PRESSIONE IN ACCIAIO AL CARBONIO ED
 INOSSIDABILE PER APPLICAZIONI IN AMBITO INDUSTRIALE E NAVALE PER TUBAZIONI DA 4 A 42 mm DI
 DIAMETRO E RELATIVI INTERVENTI DI ASSISTENZA TECNICA

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

La validità del presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo del 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 system
 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 Qualità
 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 First Issue	28.02.1994	Data decisione di rinnovo Renewal decision date	28.03.2018
Data scadenza Expiry Date	30.03.2021	Data revisione Revision date	28.03.2018

Davide Tori
 Turin Management System
 Certification, Head

Develatore

RINA Services S.p.A.
 Via Corsica 12 - 10128 Genova Italy

CISQ is a member of



IONet
 www.ionet-certification.com

IONet, the association of the world's first class
 certification bodies, is the largest provider of management
 System Certifications in the world.
 IONet is composed of more than 50 bodies and counts
 over 350 subsidiaries all over the globe.

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

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

Per i requisiti della norma non
 applicabili al campo di applicazione
 del sistema di gestione
 dell'organizzazione, mettere alle
 informazioni documentate relative.

Reference is to be made to the
 relevant documented information
 for the requirements of the
 standard that cannot be applied to
 the Organization's management
 system scope



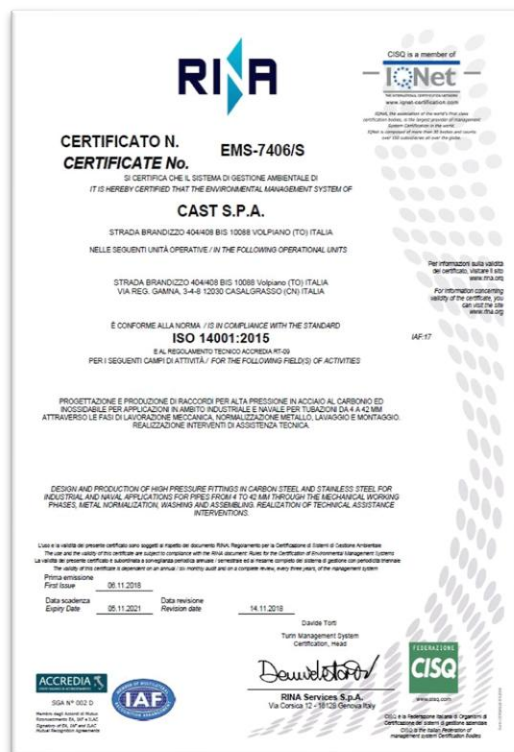



www.cisq.com

CISQ è la Federazione Italiana di Organismi di
 Certificazione dei sistemi di gestione aziendale
 CISQ is the Italian Federation of
 management system Certification Bodies

- ISO 9002 certified in 1994 by Registro Italiano Navale RINA
- ISO 9001 certified in 1997
- Confirmed and upgraded ISO 9001:2015

COMPANY QUALITY



- Certified ISO 14001:2015
by RINA
Environmental
Management System
- Certified ISO 45001:2018
by RINA
Health and Safety
Management System

PRODUCT HOMOLOGATIONS

Certified for DIN 2353 fittings
in carbon steel and stainless
steel by:

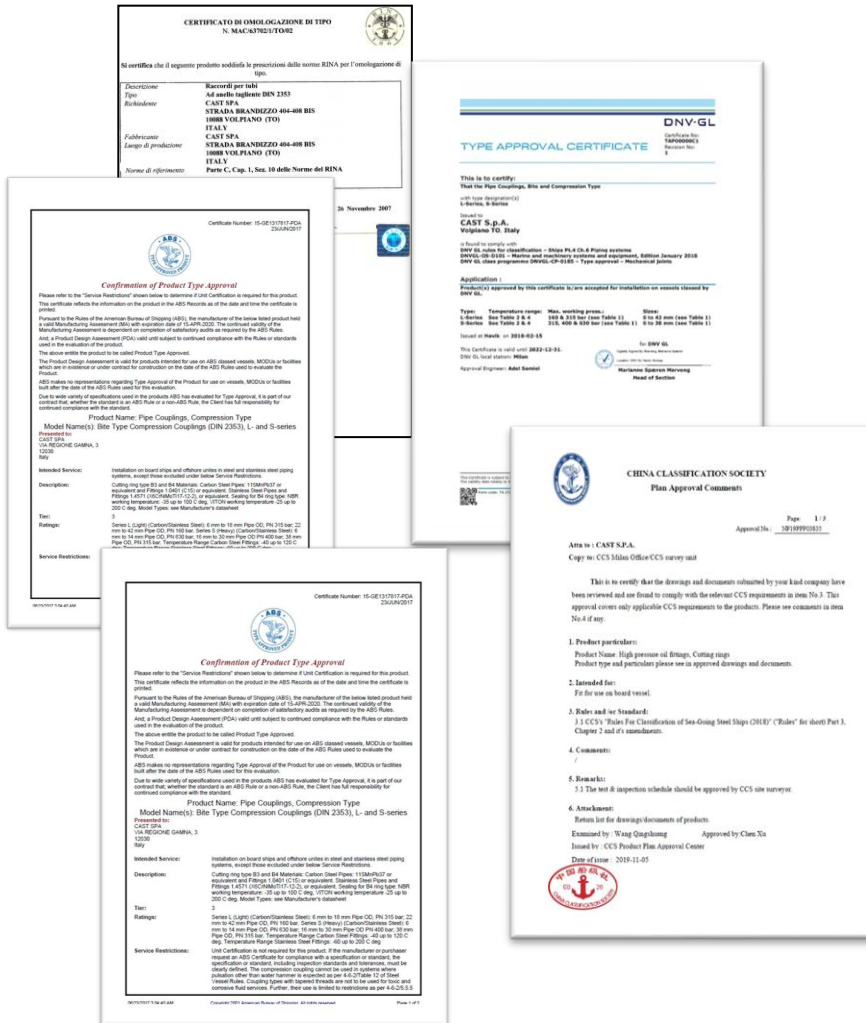
RINA Registro Italiano Navale

DNV-GL Det Norske Veritas

ABS American Bureau of
Shipping

LR Lloyd's Register

CCS China Classification Society



PRODUCT HOMOLOGATIONS



DVGW type examination certificate

DVGW-Baumusterprüfzertifikat



DG-4502DQ0273
Registration Number
Registrierungsnummer

Field of Application <i>Anwendungsbereich</i>	products of gas supply <i>Produkte der Gasversorgung</i>
Owner of Certificate <i>Zertifikatinhaber</i>	CAST S.p.A. Strada Brandizzo 404/408, I-10088 Volpiano (TO)
Distributor <i>Verteiler</i>	CAST S.p.A. Strada Brandizzo 404/408, I-10088 Volpiano (TO)
Product Category <i>Produktart</i>	Pipe equipment and fittings: Separable pipe connector for metal pipes (4502)
Product description <i>Produktbezeichnung</i>	Separable unthreaded pipe connection for metal pipes
Model <i>Modell</i>	CAST B3 - B4
Test reports <i>Prüfberichte</i>	Supplement test: 22-00245-AB01-517 v2 from 21.05.2025 (EBI) Type testing: 22-00245-AB01-517 from 24.01.2025 (EBI)
Test basis <i>Prüfgrundlagen</i>	DIN 3387-1 (01.11.2008)
Date of Expiry / File No. <i>Ablaufdatum / Aktenzeichen</i>	24.01.2030 / 22-0465-GNE

23.05.2025 Cz A-1/2
Date issued by Shaw Road of Certification Body
Datum, das der NAB / NAB der Zertifizierungsstelle



DVGW CERT GmbH
Jung-Wilms-Str. 3
53125 Bonn
Tel. +49 228 9 88-600
17809700@cert.com
www.dvgw-cert.com

Certified by DVGW for DIN
2353 fittings in stainless steel
for gas applications

PRODUCT HOMOLOGATIONS



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
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 18 mm

Place and date
Havik, 2009-07-28
for DET NORSKE VERITAS AS



Helge Drange
Head of Section



Local Office
DNV Milan

This Certificate is valid until
2013-06-30

Carl Ulrik Simonsen
Carl Ulrik Simonsen
Surveyor

Notice: This Certificate is subject to terms and conditions attached. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

DET NORSKE VERITAS AS • VERITASVEIEN 1, 1322 HAVIK, NORWAY • TEL. (+47) 67 97 00 00 • FAX (+47) 67 97 00 11 • FORM NO. 20-00a Issue January 98 Page 1 of 4



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
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 18 mm

Place and date
Havik, 2009-07-28
for DET NORSKE VERITAS AS



Helge Drange
Head of Section



Local Office
DNV Milan

This Certificate is valid until
2013-12-31

Carl Ulrik Simonsen
Carl Ulrik Simonsen
Surveyor

Notice: This Certificate is subject to terms and conditions attached. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

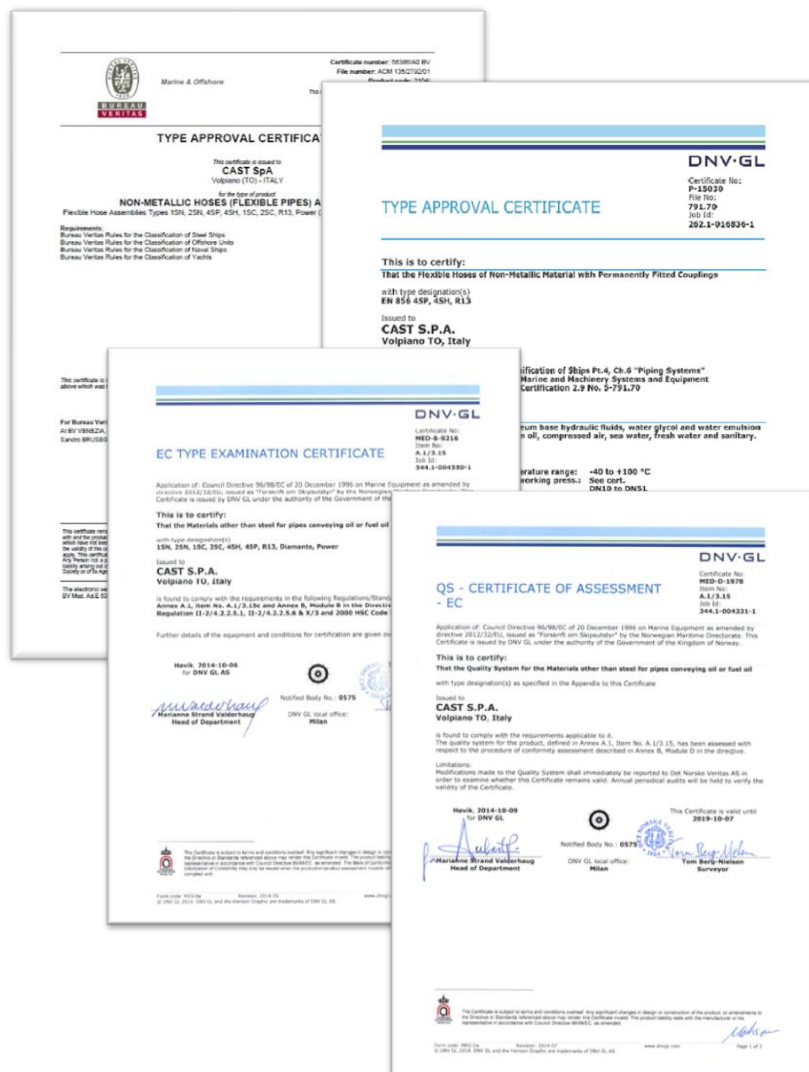
DET NORSKE VERITAS AS • VERITASVEIEN 1, 1322 HAVIK, NORWAY • TEL. (+47) 67 97 00 00 • FAX (+47) 67 97 00 11 • FORM NO. 20-00a Issue January 98 Page 1 of 3

Certified by Det Norske Veritas DNV for:

- SAE J514 JIC
- SAE J1453 ORFS

in carbon steel and stainless steel

PRODUCT HOMOLOGATIONS



- Certified by Bureau Veritas BV and Det Norske Veritas DNV for carbon and stainless steel hose fittings assembled with spiral hoses branded Cast and Semperit
- Certified MED-B and MED-D by DNV-GL

PRODUCTION AND QUALITY



- One production plant of 15.000 sqm (expansion in progress)
- Hi Tech production machines
- More than 80 million pieces produced per year
- Few subcontractors in Italy working for us according to our specifications
- ISO 9001 working procedures
- Quality checks made following all the various production phases

MATERIAL QUALITY ASSURANCE

- Raw materials of European origin
- Suppliers ISO 9001 certified
- Quality guaranteed by suppliers' reports and certificates
- Documentation (material certificates 3.1 and 2.2) available for customers upon request at any time

Rodacciai

20042 Casalini (Pavia) - Italia
Tel. 0384/500111 - Fax 0384/500112
E-mail: www.rodacciai.it - www.rodacciai.com

Azienda con sistema di gestione certificato da ISO
secondo UNI EN ISO 9001:2008
The Company's Quality Management System
is certified by ISO according to UNI EN ISO 9001:2008

RAPPORTO DI PROVA - Test Report N. 0016/06 Data 21/01/19

Secondo According to EN 10204:2004 2.2

DESTINATARIO - Cargo-Receiver CLIENTE Customer

CAST SPA CAST SPA

REG. CANVA N3 STRADA BRANDIZZO V. 434-7064.S
12030 CASALGRASSO 10098 VOLPIANO TO

ORDINE - Order D.d.T. - Delivery note
N. Data
N. 0016/06 Data 21/01/19

PESO KG 520,3
TOLLERANZA HLL + 0,000 - 0,130 mm **LONG. BARRE** 2.000 3.050 mm

QUALITA' - Grade
MCRA EN 10088-3:2014 X6CrNiMoTi19-12-2+2H 1.4571

Sigla RODACCIAI 316 TS L

COLATA - Heat 422022

PROFILO - Shape 6863000

DIMENSIONE - Size 7m 22,00

ESECUZIONE - Form of delivery TRAT. SARRA

ANALISI CHIMICA DI COLATA - Cast analysis % by mass

C	Mn	Si	S	P	Cr	Ni	Mo	Cu	Co
0,082	1,000	0,500	0,0250	0,037	16,550	10,750	2,020	0,340	0,150
N	Ti								
0,0203	0,110								

Qualità superficiale in condizione 2H e EN 10277-1 classe 2

Si attesta che il materiale della presente fornitura
è conforme alla prescrizione d'ordine e ad ogni altra specifica
concordata contrattualmente con il cliente.
Certificato generato da un sistema informatico
secondo la norma EN 10204, valido senza firma.

Nota: questo documento è un documento aziendale riservato. È vietata la ristampa o l'uso non autorizzato senza permesso scritto dalla Rodacciai. Il presente documento è proprietà intellettuale della Rodacciai e non deve essere distribuito o utilizzato al di fuori del contesto di lavoro. Il presente documento è valido solo se accompagnato dal documento di accompagnamento. Il presente documento è valido solo se accompagnato dal documento di accompagnamento. Il presente documento è valido solo se accompagnato dal documento di accompagnamento.

Reg. 1 / 1 DEPOSITO EMBASCO TORINO
Porta Alessia

TREATMENTS AND ZINC PLATING

CAST <small>spa</small>		VERBALE DI PROVA		V.d.P. n°19/04													
		M34		foglio 1 di 1													
Disegno n°: 102007.1	Ediz.: 1	Denominazione: Gomito di estremità															
Prova: Test di corrosione in camera a nebbia salina				Macchina impiegata: 04													
TIPO DI TRATTAMENTO Zincatura Fe/Zn 8b/c 1B UNI ISO 2081-4520 + Finigard FORNITORE CO-PAR NORMA DI RIFERIMENTO UNI ISO 9227 NORMA DI VALUTAZIONE FIAT 50180 / FIAT 9.57405 APPARECCHIATURA Camera in nebbia salina NSA/700 IMOR PARAMETRI DI PROVA Tipo di atmosfera Salt spray test (S.S.T.) Tipi di nebbia Neutra (N.S.S.) Tempo d'esposizione ≥400 ore Pulitura Acqua corrente Soluzione salina NaCl 5% pH 6.5-7.2 Temperatura 35°C±2°C K pluviometrica 1-2 ml/h																	
DATA INIZIO PROVA 19/01/04		DATA FINE PROVA 05/02/04															
TABELLA DI OSSERVAZIONE																	
Ore di Esposizione alla nebbia salina																	
Conferma parametri	X	53	X	X	/	/	X	X	X	X	/	/	X	X	X	X	
Tipo/n°	24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408
1	NDS	NDS	NDS	NDS	/	/	NDS	NDS	NDS	NDS	NDS	/	/	NDS	NDS	IFCB	IFCB
2																	
Conferma parametri																	
Tipo/n°	432	456	480	504	528	552	576	600	624	648	672	696	720	744	768	792	816
1																	
2																	
Nds = niente da segnalare Ifcb = inizio focolai corrosione bianca Ifcr = inizio focolai corrosione rossa																	
ESITO PROVA:		SUPERATA Fcb ≤ 5% superficie <input checked="" type="checkbox"/>				NON SUPERATA Fcb > 5% superficie <input type="checkbox"/>											
Data:	Firma Esecutore prova:		Firma Resp. Laboratorio:														
05/02/04	Castelluccio Peco		Castelluccio Peco														

- No internal treatment facilities
- Fe/Zn 8/C/T2 ISO 2081 – ISO 4520
- Ecological “White plating” Cr6-free with Topcoat
- Min thickness 8 micron
- About 400 hours against white rust and 750 hours against red rust in standard salt spray test according to ISO 9227

TRACEABILITY CODES

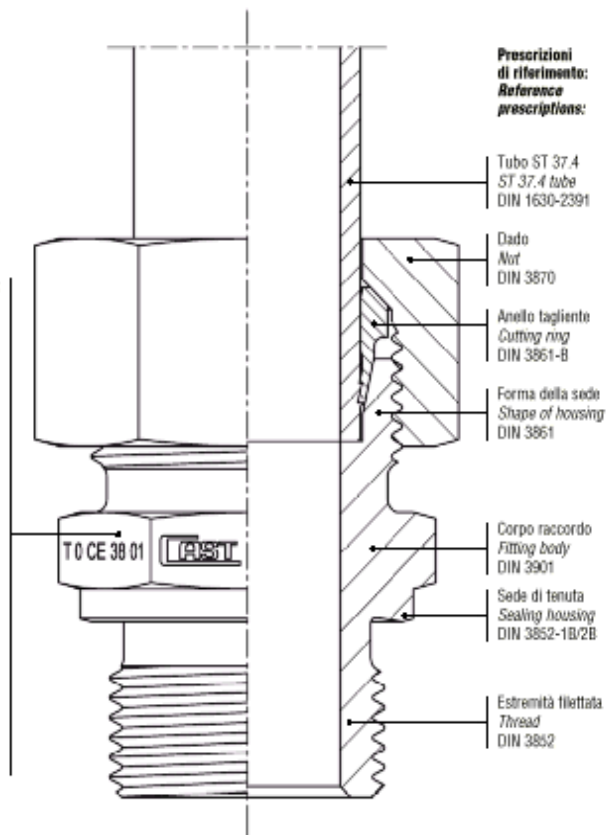
**SISTEMA
DI GIUNZIONE
DIN 2353
COUPLING
SYSTEM
DIN 2353**

**Marchi di rintracciabilità:
Traceability decoding:**



Logo
del Produttore
Manufacturer

• T =
Stabilimento
di produzione
Production plant
• D =
Anno di fabbricazione
Year manufactured
• CE =
Prodotto nella CEE
Made in EEC
• 38 =
Tipo di acciaio
impiegato
Type of steel used
• 01 =
N° di colata
dell'acciaio impiegato
Casting number of
the steel used



- All articles marked by a traceability code providing all the information concerning production
- All data recorded at least 10 years
- Easy way to find responsibilities

TRACEABILITY CODES

- Manufacturer's name (CAST logo)
- Production plant
- Year of manufacture
- General type of steel
- Heat number of steel
- UE production (CE)
- All data displayed on the 3.1 certificates of the raw steel bars and forgings
- C T 0 CE 38 01



MATERIALS

- Carbon steel
11SMnPb37/30 - 1.0737/1.0718 UNI EN 10087
28SMnPb28 - PR60
Temperature range from -40°C to +120°C
- Stainless steel
X6CrNiMoTi17-12-2 - 1.4571 (AISI 316 Ti) UNI EN 10088-3
Temperature range from -60°C to +200°C
- NBR
Temperature range from -40°C to +100°C
- FKM (Viton)
Temperature range from -25°C to +200°C

ADVISED TUBES

- Carbon steel
Calibrated, cold-drawn weld-free pipes, standardized with inert gas, made of material E235 according to EN 10305-4 (ST 37.4 according to DIN 1630 / DIN 2391).
Maximum hardness 75 HRB.
Temperature -40°C and +120°C.
- Stainless steel
Calibrated and polished pipes, cold drawn without welding, in material 1.4571 according to EN 10216-5 table 6, or ASTM 269, with dimensional tolerances according to EN 10305-1.
Maximum hardness 85 HRB.
Temperature -60°C and +200°C.

CAST CODES

Six digit part numbers:

- First digit indicates the product type:

1 DIN 2353 fittings

2 SAE J514 JIC fittings

3 BS 5200 adaptors

4 SAE J1453 ORFS fittings

5 Check valves

6 DIN 2353 DKO fittings

7 hose fittings (obsolete)

8 hose fittings (new)

- Second digit indicates the material

0 Carbon steel

1 Stainless steel

- Third and fourth digits indicate the shape

- Fifth and sixth digits indicate the size

Suffixes:

.1 indicates DIN fittings body only

.3 indicates standard JIC fittings

.4 indicates DIN fittings assembled with B4 rings

Examples

103507

113507.1

103507.4

200305.3

310504

400106

800555

Hoses: 73..

FITTINGS DIN 2353



- The standard DIN 2353 technology (B3 ring)
- The new DIN 2353 patented leakage free technology (B4 ring)
- WP up to 800 bar, SF 4:1
- About 50% of CAST sales volumes

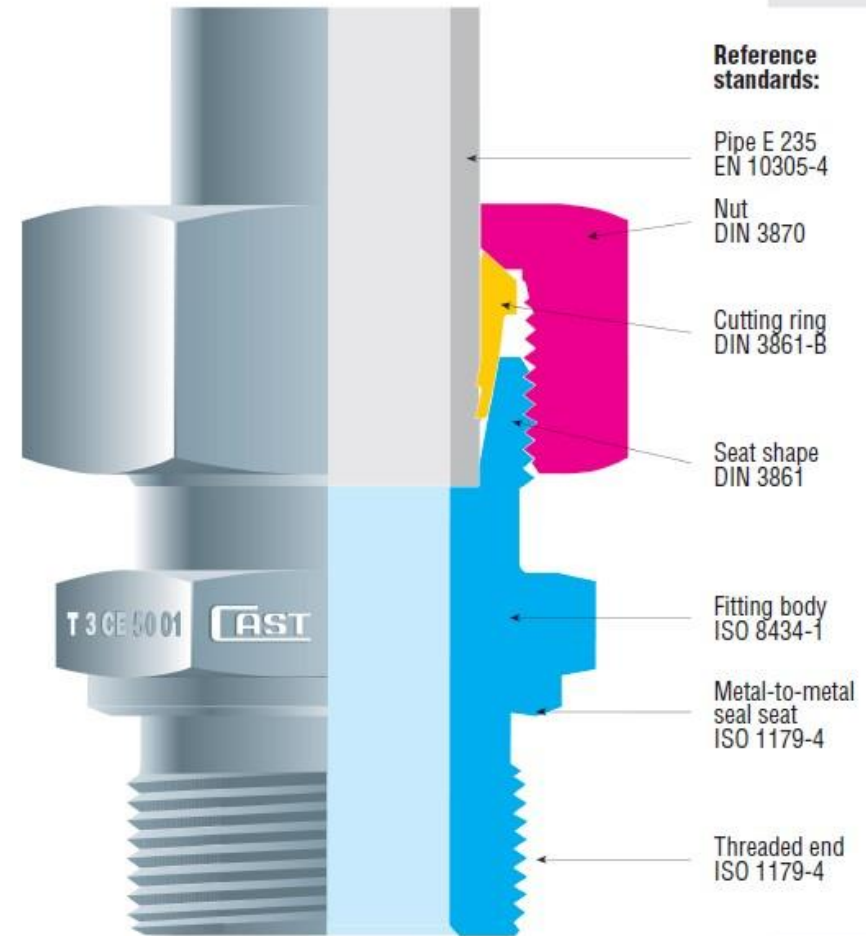
FITTINGS DIN 2353

Type of connection made of four components, where a steel tube is connected at 24° to the body of a fitting by means of a cutting ring and a nut.

The ring must be pre-assembled onto the tube and checked for approval.

Then, the final assembly with the nut can be performed.

It is mandatory to do the visual inspection of the ring after the pre-assembly, to avoid possible accidents during working under pressure.



RINGS GENERAL ASSEMBLY (DIN 3859-2)

- Lubricate 24° cone, thread, ring and nut
- Fit nut and ring onto the tube, insert tube into 24° cone
- Tighten nut by hands and then with wrench for 1 ¼ of a turn
- Open and check the edge covering 80% of ring front
- Close nut until resistance is felt
- Close with a wrench by ¼ of a turn

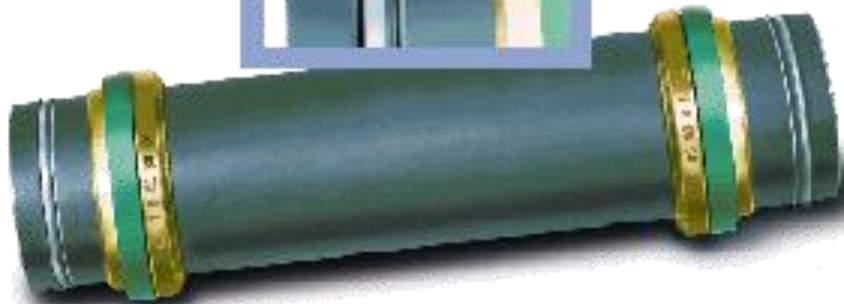
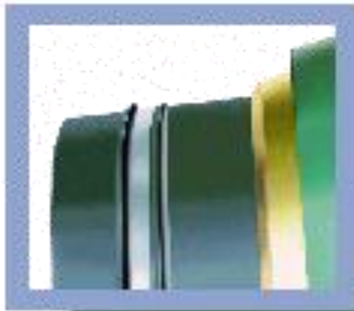
Use pre-assembly manual blocks, especially for stainless steel parts

B3-B4 RINGS ASSEMBLY (CAST)

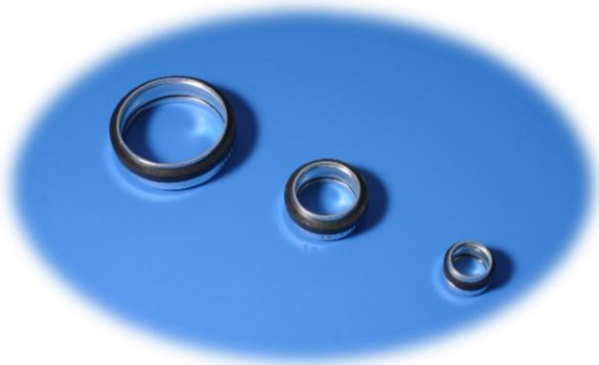
- Lubricate 24° cone, thread, ring and nut
- Fit nut and ring onto the tube, insert tube into 24° cone
- Tighten nut by hands and then with wrench until tube stops rotating
- Holding the tube, tighten nut with wrench $\frac{3}{4}$ of a turn
- Open and check the edge covering 80% of ring front
- Close nut until resistance is felt
- Close with a wrench by $\frac{1}{4}$ of a turn

Use pre-assembly manual blocks, especially for stainless steel parts

CAST B4 PATENTED RING

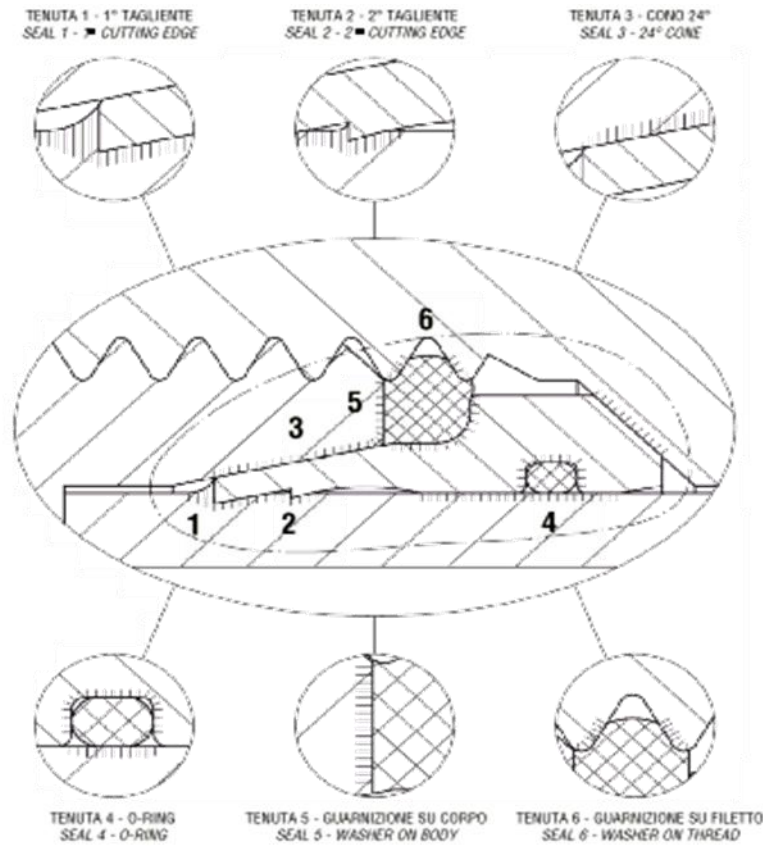


- Fully interchangeable
- Standard assembly
- DNV Homologated
- Complying to the Norm

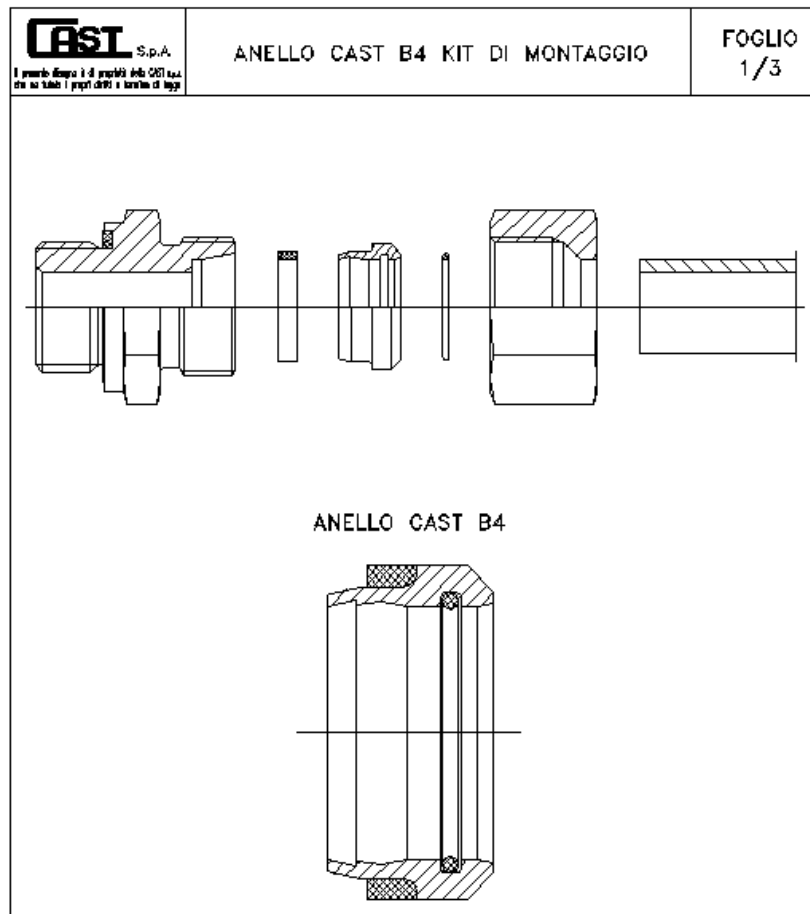


CAST B4 MAIN FEATURES

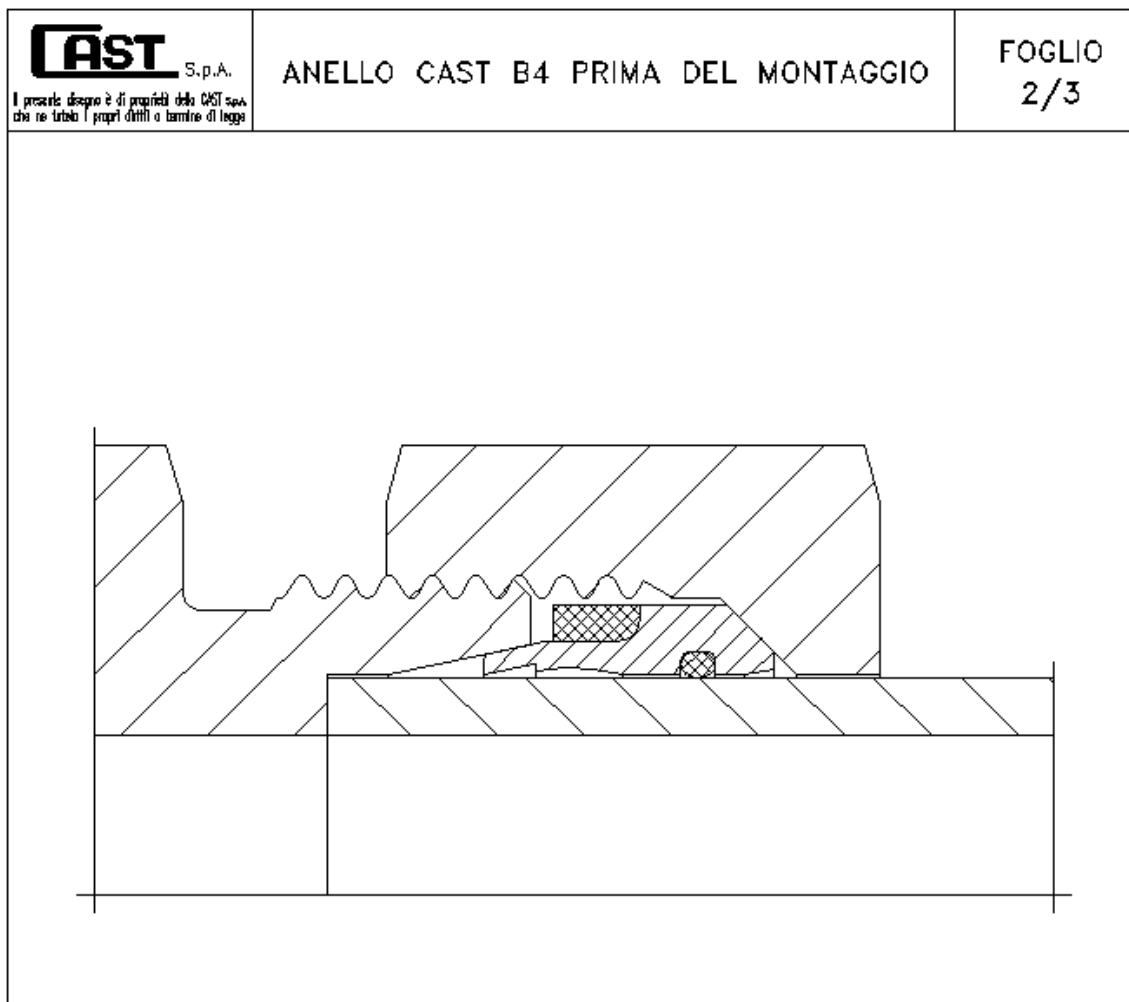
- Double edge cutting ring with 6 sealing points
- Single metal component
- Metal to metal sealing with additional rubber sealing
- Rubber sealing not in direct contact with oil
- Standard assembly according to DIN 3859-2
- Easy check of proper biting into the tube
- Unthreading feature
- Vibration damping
- Perfect interchangeability
- Multiple assemblies
- Inexpensive product



CAST B4 ASSEMBLY KIT



CAST B4 BEFORE ASSEMBLY



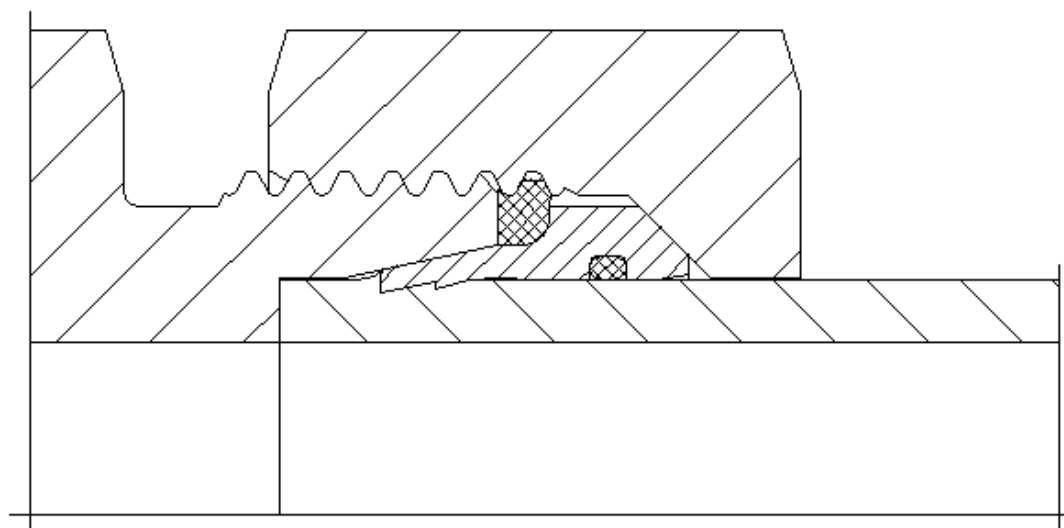
CAST B4 ASSEMBLED

CAST

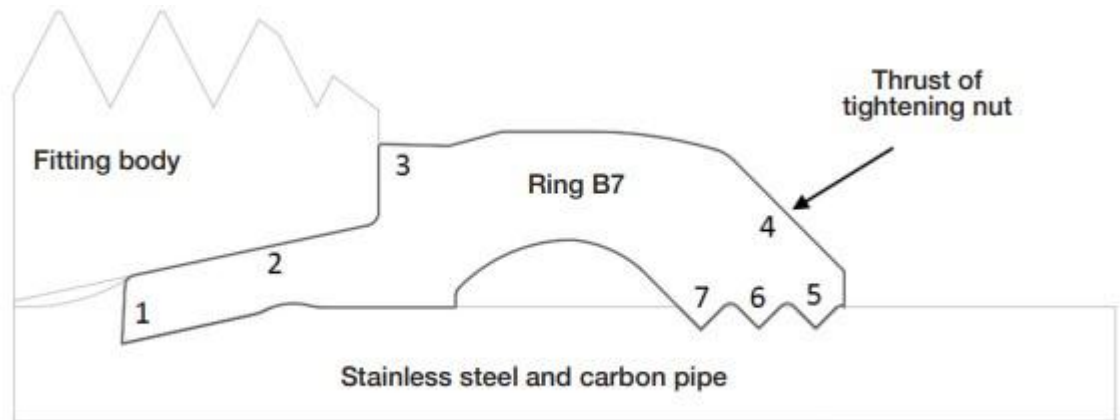
S.p.A.

Il presente disegno è di proprietà della CAST S.p.A.
che ne tutela i propri diritti a termini di legge

ANELLO CAST B4 DOPO IL MONTAGGIO FINALE

FOGLIO
3/3

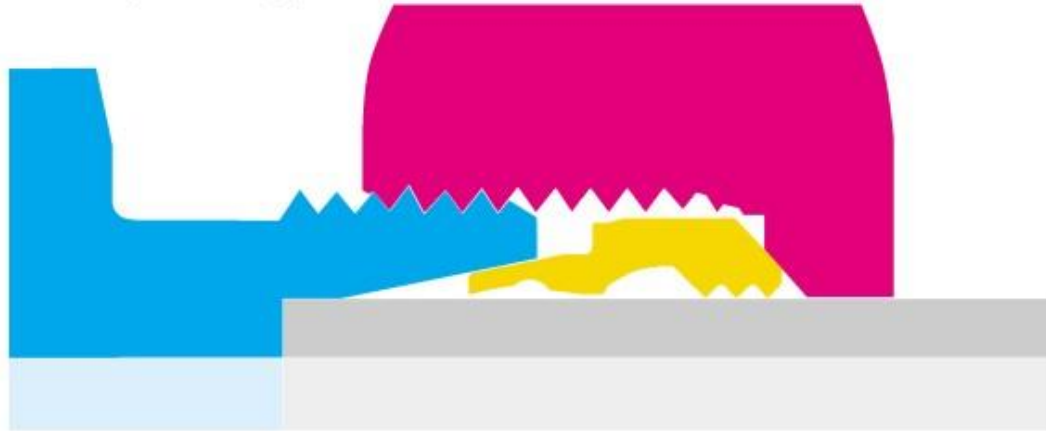
CAST B7 PATENTED RING



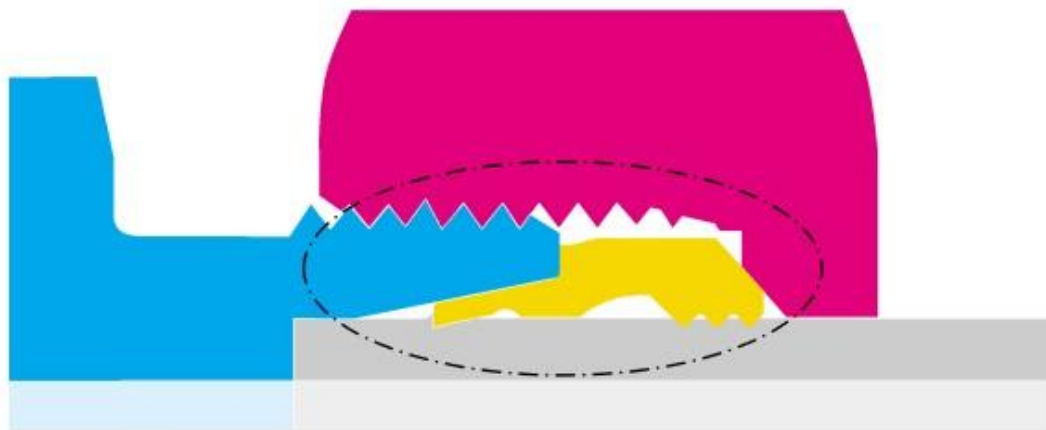
Sealing points "B7" 1-2-3-4-5-6-7

CAST B7 PATENTED RING

Before assembly on the metal pipe



After assembly on the metal pipe



Force range after assembly — — — — —

B7 RING ASSEMBLY (CAST)

- Lubricate 24° cone, thread, ring and nut
- Fit nut and ring onto the tube, insert tube into 24° cone
- Tighten nut by hands and then with wrench until you feel a very high resistance and the shoulder of the ring gets in touch with the front of the fitting
- Open and check the ring does not move longitudinally and it is in touch with the body
- Tighten nut until some resistance is felt
- Tighten with a wrench by ¼ of a turn

Use pre-assembly manual blocks, especially for stainless steel parts

FITTINGS DIN 2353

- Very high pressure (up to 800 bar)
- Very good sealing properties
- Dangerous if not assembled properly because the tube can slip away (the ring is critical)
- Complicated assembly procedure
- Metric pipes from 4 to 42 mm
- Metric parallel thread on pipe side
- Price level: average
- Popularity: very common, especially in Europe



FITTINGS SAE J 514 – JIC 37°



**SISTEMA
DI GIUNZIONE
SAE J514
SYSTEM OF
COUPLING
SAE J514**

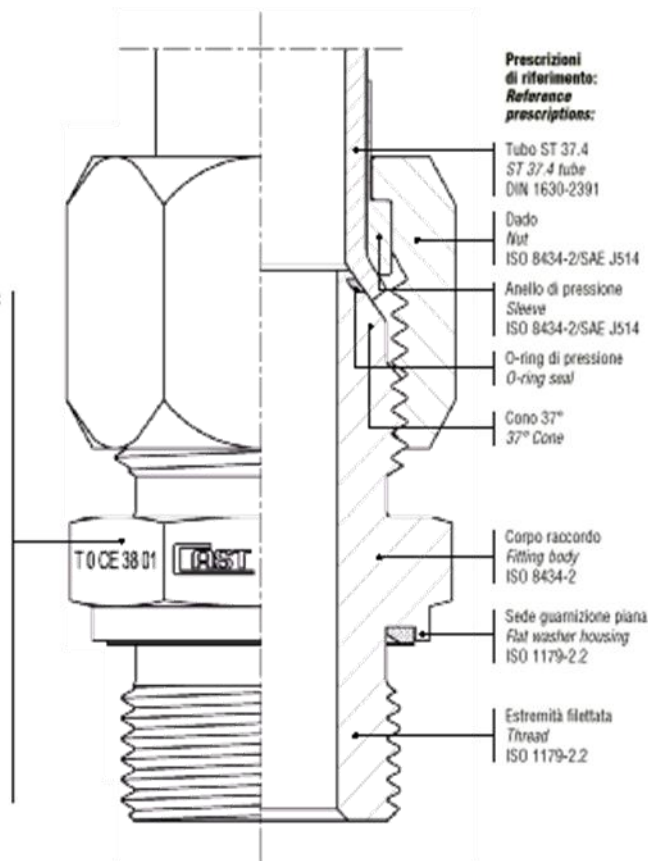
**Marchi di rintracciabilità:
Traceability decoding:**



Logo
del Produttore
Manufacturer
• T =
Stabilimento
di produzione
Production plant
• 0 =
Anno di fabbricazione
Year manufactured
• CE =
Prodotto nella CEE
Made in EEC
• 38 =
Tipo di acciaio
impiegato
Type of steel used
• 01 =
N° di colata
dell'acciaio impiegato
Casting number of
the steel used

**Prescrizioni
di riferimento:
Reference
prescriptions:**

Tubo ST 37.4
ST 37.4 tube
DIN 1630-2391
Dado
Nut
ISO 8434-2/SAE J514
Anello di pressione
Sleeve
ISO 8434-2/SAE J514
O-ring di pressione
O-ring seal
Cono 37°
37° Cone
Corpo raccordo
Fitting body
ISO 8434-2
Sede guarnizione piana
Flat washer housing
ISO 1179-2.2
Estremità filettata
Thread
ISO 1179-2.2



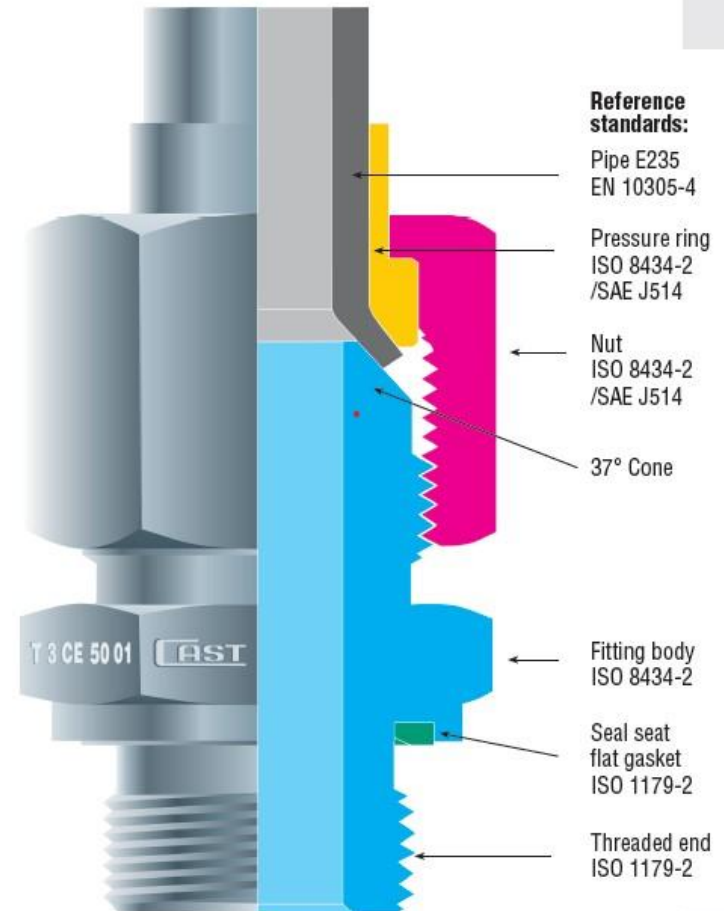
WP up to 450 bar, SF 4:1

FITTINGS SAE J 514 – JIC 37°

Type of connection made of four components, where a steel tube is connected to the body of a fitting by means of a sleeve and a nut.

The tube must be flared at 37° before being put over the front of the body of the fitting carrying the sleeve and the nut.

The connection is then made by screwing the nut, holding the tube between the body and the sleeve.

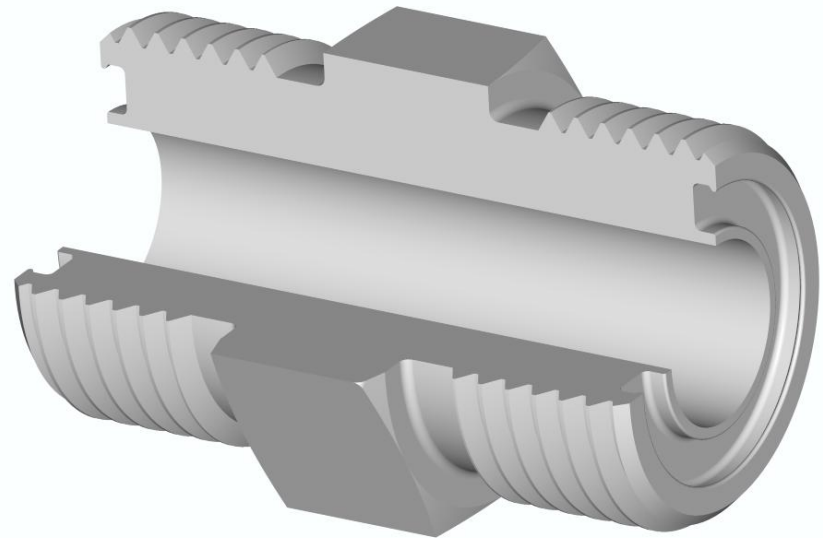


FITTINGS SAE J 514 – JIC 37°

- Medium pressure (up to 450 bar)
- Good sealing properties
- Relatively dangerous if not assembled properly, because the tube cannot slip away
- Not complicated assembly procedure
- Metric and imperial pipes (6 - 38 mm; ¼ - 1 ½ inch)
- UNF thread on pipe side
- Price level: low
- Popularity: very common, especially in America



FITTINGS SAE J1453 – ORFS 90°



O-ring groove made according to best and modern technical knowledge to avoid leakage and o-rings' falling from seat (captive groove - CORG)

WP up to 630 bar, SF 4:1

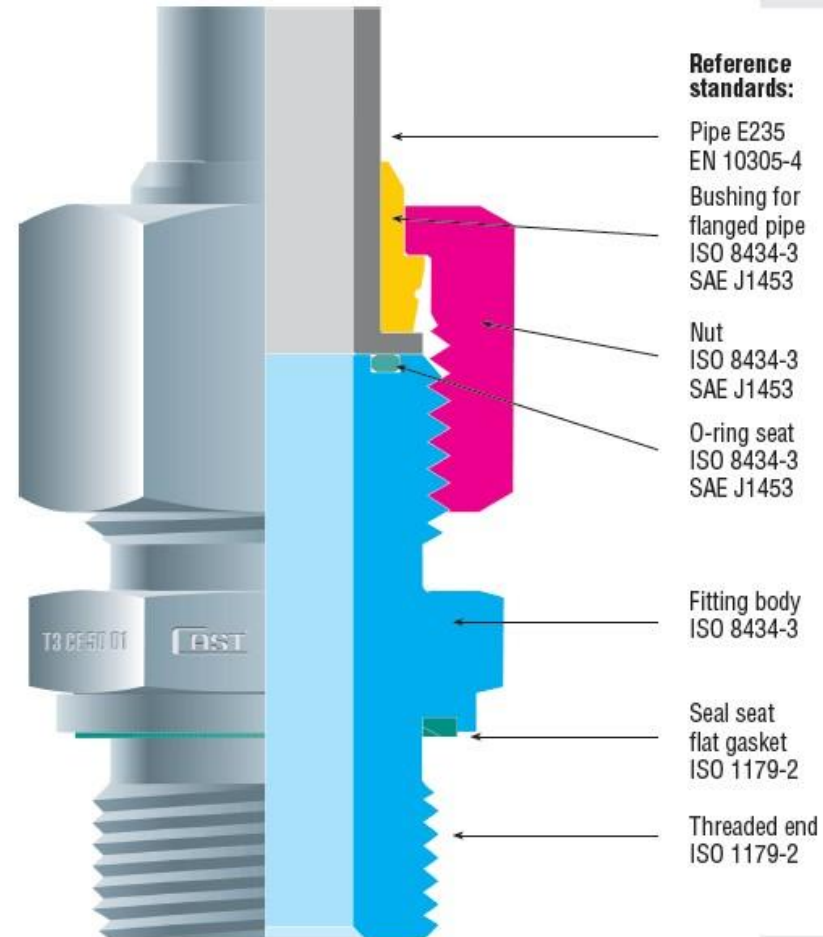
FITTINGS SAE J 1453 – ORFS 90°

Type of connection made of four components, where a steel tube is connected to the body of a fitting by means of a sleeve and a nut.

The tube must be flared at 90° before being put over the front of the body of the fitting carrying the sleeve and the nut.

The connection is then made by screwing the nut, holding the tube between the body and the sleeve.

The oring of the body is fundamental for the sealing.

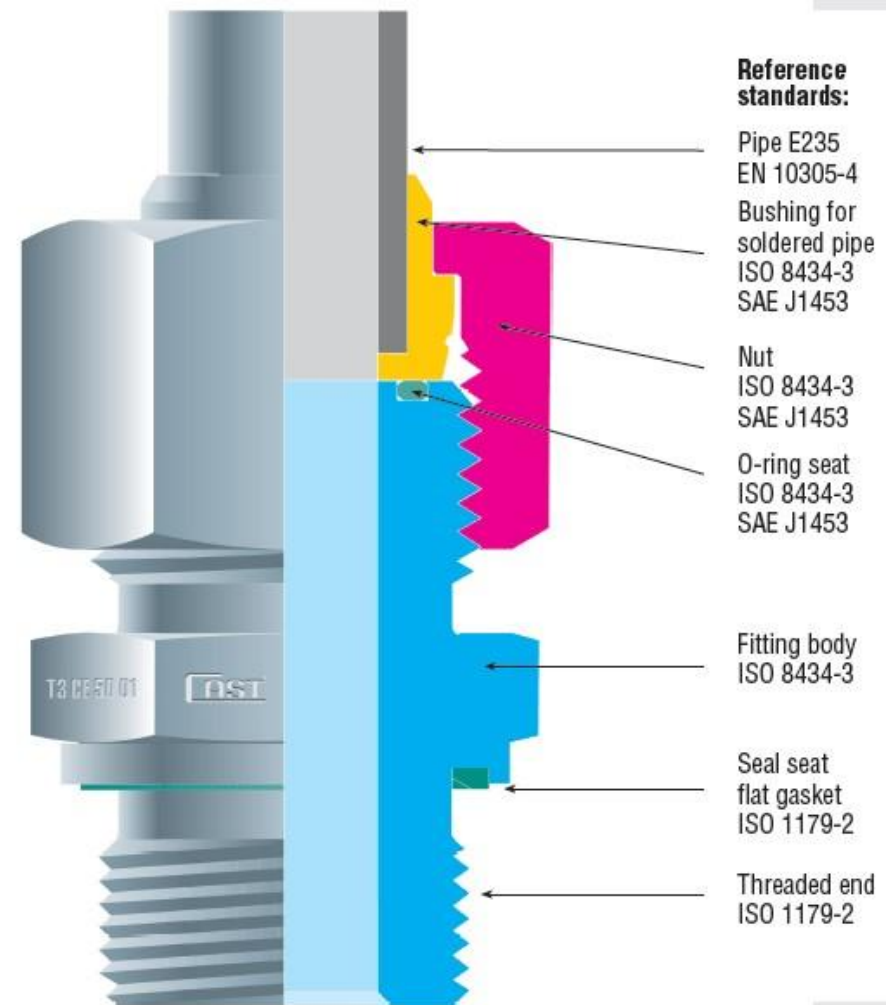


FITTINGS SAE J 1453 – ORFS 90°

As alternative, which allows avoiding to flare the tube at 90°, a special sleeve can be brazed onto the tube.

In this case the sealing is not made by the contact of the wall of the tube and the oring of the front of the fitting but by the brazed sleeve in touch with the oring.

Also in this case, the oring of the body is fundamental for the sealing.



FITTINGS SAE J1453 – ORFS 90°



- High pressure (up to 630 bar)
- Very good sealing properties
- Relatively dangerous if not assembled properly because the tube cannot slip away
- Not complicated assembly procedure
- Metric and imperial pipes (6 - 38 mm; ¼ - 1 ½ inch)
- UNF thread on pipe side
- Price level: very high
- Popularity: average, especially in America

ADAPTERS BS 5200



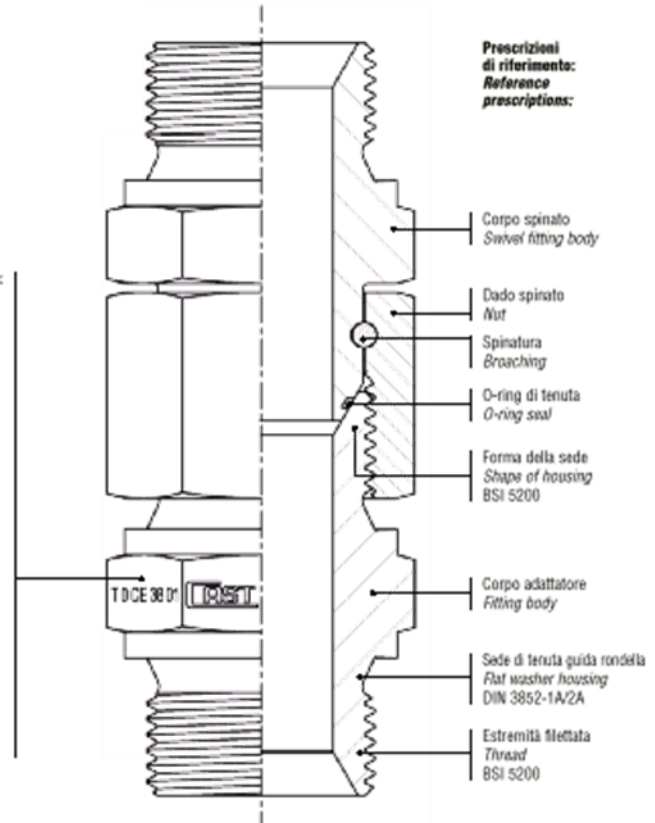
**SISTEMA
DI GIUNZIONE
BSI 5200
SYSTEM OF
COUPLING
BSI 5200**

**Marchi di rintracciabilità:
Traceability marking:**

CAST

Logo
del Produttore
Manufacturer
• T =
Stabilimento
di produzione
Production plant
• 0 =
Anno di fabbricazione
Year manufactured
• CE =
Prodotto nella CEE
Made in EEC
• 38 =
Tipo di acciaio
impiegato
Type of steel used
• 01 =
N° di colata
dell'acciaio impiegato
Casting number of
the steel used

**Prescrizioni
di riferimento:
Reference
prescriptions:**

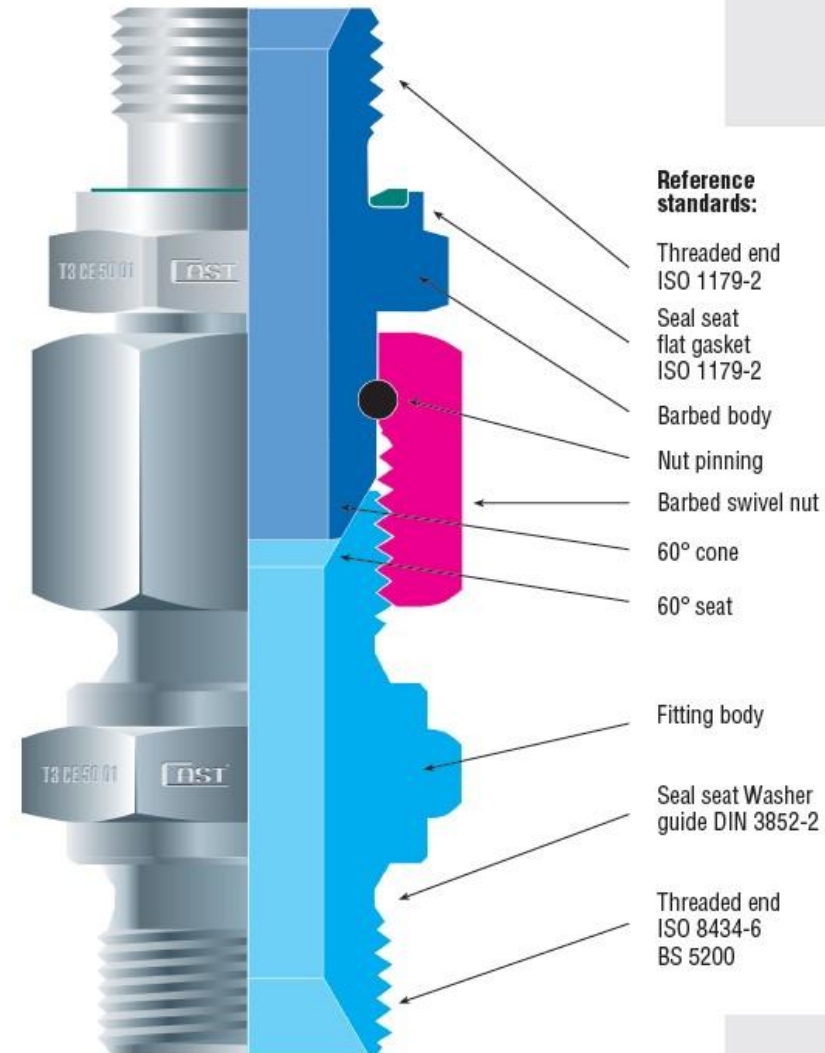


WP up to 400 bar, SF 4:1

ADAPTERS BS 5200

Type of connection which involves threaded components only and no tubes.

It is used to connect fittings and threaded ports, often extending lengths, adapting threads, going from male to female or the other way round.



ADAPTERS BS 5200

- Medium pressure (up to 400 bar)
- Good sealing properties
- Relatively dangerous if not assembled properly
- Not complicated assembly procedure
- Not assembled on pipes
- Threads Metric, BSPP, BSPT, NPT
- Price level: low
- Popularity: very common

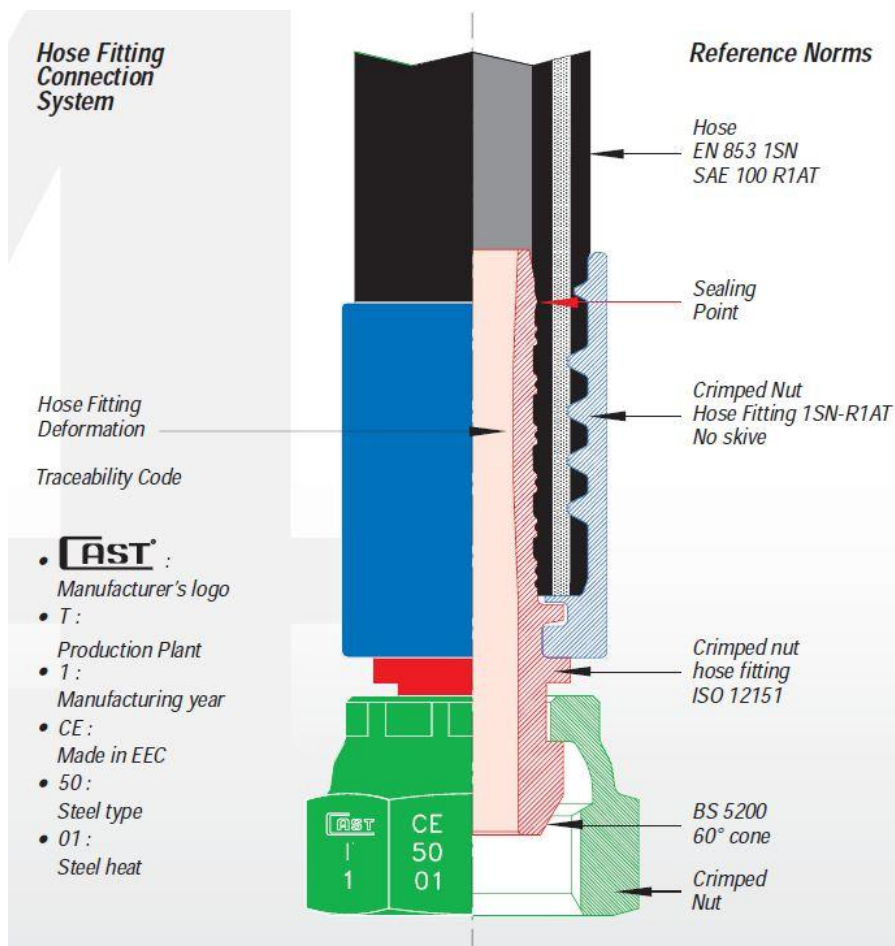


HOSE FITTINGS AND HOSES



- Manufacturer of full range of standard hose fittings since 2004
- New range C4 since 2012
- Interlock range since 2013
- Stockist of hydraulic hoses made by Semperit
- Stockist of thermoplastic hoses

HOSE FITTINGS RANGE C4



- CAST design of ferrules and tails
- Sealing improvement
- Cast design
- 80 series replacing old 70 series
- Cost saving
- Standard series for braided and spiral hoses
- Interlock series for spiral hoses