

Catalogo prodotti  
Products catalogue  
Catalogue des produits  
Produktkatalog  
**2010**

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# Catalogo prodotti Products catalogue Catalogue des produits Produktkatalog 2010

## DALLA QUALITÀ IL NATURALE SVILUPPO

Dopo quaranta e più anni di attività nel settore della componentistica per la refrigerazione e il condizionamento dell'aria, CASTEL si è ormai affermata in tutto il mondo come produttore di componenti di qualità. Qualità che è il risultato di una filosofia aziendale che impronta ogni fase del ciclo produttivo ed è testimoniata sia dalla Certificazione del Sistema di Qualità Aziendale, ratificata da ICIM in conformità alla norma UNI EN ISO 9001:2008, sia dalle numerose certificazioni di prodotto, in conformità a Direttive Europee e a Marchi di Qualità europei ed extraeuropei. La qualità del prodotto si accompagna alla qualità del lavoro, eseguito utilizzando macchinari ed impianti ad elevato contenuto tecnologico, dotati degli standard di sicurezza e di tutela ambientale richiesti dalla legislazione vigente.

CASTEL offre agli operatori dei settori refrigerazione e condizionamento dell'aria e alle industrie costruttrici prodotti collaudati per l'impiego con i fluidi frigoriferi HCFC e HFC attualmente in uso nel mercato del freddo.

Sulla base dell'esperienza maturata nel campo della refrigerazione la Castel è ora orgogliosa di presentare in questo catalogo anche una nuova linea di prodotti costituita da diverse famiglie di valvole solenoidi specificamente progettate per impieghi industriali.

## FROM QUALITY OUR NATURAL DEVELOPMENT

After more than forty years in the industry of Refrigeration and Air Conditioning, Castel Quality Range of Products is well known and highly appreciated all over the world. Quality is the main issue of our Company and it has a special priority, in every step, all along the production cycle. UNI EN ISO 9001:2008, issued by ICIM, certifies the Quality System of the Factory. Moreover Castel Products count a number of certifications in conformity with EEC Directives and with European and American Quality Approval.

We produce on high tech machinery and updated automatic production lines, operating in conformity with the safety and environment standards currently enforced.

Castel offers to the Refrigeration and Air Conditioning Market and to the Manufacturers fully tested products suitable with HCFC and HFC Refrigerants currently used in the Refrigeration & Air Conditioning Industry.

Based on this experience, obtained in the market for production of components for Refrigeration, Castel is proud to present in this catalogue a new range of products including different type of solenoid valves, specifically studied for general purposes.

## GENERAL SALES CONDITIONS

### ORDERS

The purchaser confirms his fully acceptance of our "General Sales Conditions".

### DELIVERY

Goods travel at the risk of the buyer, even if delivery terms are "ex works". Customers will have to insure goods and case they wish.

### PACKING

Disposable packing is included in the price and will not be credited if returned.

### TERMS OF DELIVERY

Terms are not mandatory and no charges for delay or responsibility will be accepted by the seller. Delay in deliveries will not be cause for contract resolutions.

### TERMS OF PAYMENT

Remittances should be done to our Head Office only. In case of payment delays we reserve our right to interrupt or cancel the fulfilment of the pending orders.

### NOTICE OF CLAIMS

Claims concerning wrong deliveries of goods must be informed - by written - within ten (10) days from reception of delivery in the customer's warehouses.

### GUARANTEE

Castel products are guaranteed for 12 months. This only includes those products or parts of products which have defects within the guarantee period. The client will send goods back to his costs with a detailed description of the claimed defects. The guarantee is not recognized when the defect claimed is due to client's mistakes or wrong installations, or application is not allowed by the technical indications supplied by Castel. In case of defects of the products Castel will only replace the defective goods and will not refund any kind of damages of any types. Castel reserves to bring variations of charges to its own products without any notice and in any moment.

### RETURNED GOODS

Not returns of goods are accepted without obtaining a proper Castel authorisation by submissions of a Claim Code.

### PRICES

Are ex works. Castel reserves the right to modify without notice its prices in "Force Majeur" cases if costs of raw materials or other costs increase in an unsustainable measure.

### DISPUTES

For any dispute arising in connection with the agreements the courts of Milan shall have exclusive jurisdiction.

## APPLICATION OF DIRECTIVE 97/23/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, OF 29 MAY 1997, CONCERNING PRESSURE EQUIPMENT TOWARDS CASTEL REFRIGERATION PRODUCTS

The Directive 97/23/EC (PED) applies to the design, manufacture and conformity assessment of pressure equipment and assemblies with a maximum allowable pressure "PS" greater than 0,5 bar with the exception of the possibilities listed in Article 1, Section 3 of the same Directive. Since 30 May 2002 the Directive has become mandatory and, in the Member States of European Community, it has been possible to place on the market only pressure equipments CE marked according to PED.

For the purposes of the Directive see the following definitions, used in this Catalogue too:

- Pressure equipment: vessels, piping, safety accessories, and pressure accessories
  - Vessel: a housing designed and built to contain fluids under pressure.
  - Piping: piping components intended for the transport of fluids, when connected together for integration into a pressure system.
  - Safety accessories: devices designed to protect pressure equipment against the allowable limits being exceeded.
  - Pressure accessories: devices with an operational function and having pressure-bearing housing. For example: solenoid valves, valves, indicators.
  - Assemblies: several pieces of pressure equipment assembled by a manufacturer to constitute an integrated and functional whole.
  - Maximum allowable pressure (PS): the maximum pressure for which the equipment is designed, as specified by the manufacturer.
  - Maximum/minimum allowable temperature (TS): the maximum/minimum temperatures for which the equipment is designed, as specified by the manufacturer
  - Volume (V): the internal volume of a chamber, including the volume of nozzles to the first connection or weld and excluding the volume of permanent internal parts.
  - Nominal size (DN): numerical designation of size, which is common to all components in a piping system.
  - Fluids: gases, liquids and vapours in pure phase as well as mixture thereof.
- Pressure equipments referred to in Article 3 are classified by categories in accordance with Annex II, according to ascending level of hazard, on the basis of:
- State of the fluid
  - Danger classification of the fluid
  - Type of equipment
  - Dimensions and energetic potential; V, DN, PS, PS x V, PS x DN
- and must satisfy the Essential Safety Requirement set out in Annex I of PED.

Pressure equipments below or equal to the limits in Article 3, sections 1.1, 1.2 and 1.3 and section 2, must not satisfy the Essential Safety Requirement set out in Annex I. They must be designed and manufactured in accordance with the sound engineering practice of a Member State in order to ensure safe use (Article 3, Section 3).

In Article 9 of PED the fluids are classified, according to their hazard, into two groups:

- Group I comprises dangerous fluids. A dangerous fluid is a substance or preparation covered by the definitions in Article 2 of Council Directive 67/548/EEC of 27 June 1967 and following amendments, relating to the classification, packaging and labeling of dangerous substance. Group I comprises fluids defined as: explosive, extremely flammable, highly flammable, flammable, very toxic, toxic, oxidizing.
  - Group II comprises all the others fluids not referred to in group I.
- Castel products are suitable for using with refrigerant fluids proper to the Group II.
- These refrigerant fluids are listed and classified A1 in Annex E of standard EN 378-1: 2008, plus fluids R30, R123 and R141b, R245fa that are classified in other safety groups.
- Among the fluids listed in this standard, there are the well known R12; R22; R134a; R404A; R407C; R410A; R502; R507.

## APPLICATION OF DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, OF 27 JANUARY 2003, ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT

The purpose of Directive 2002/95/EC (RoHS Directive) is to prevent or restrict the use of hazardous substances in electrical and electronic equipment and to contribute to the environmentally sound recovery and disposal of waste electrical and electronic equipment.

RoHS Directive shall apply to electrical and electronic equipment falling under the categories 1, 2, 3, 4, 5, 6, 7 and 10 set out in Annex 1A to Directive 2002/96/EC (WEEE - Waste electrical and electronic equipment) and to electric light bulbs and luminaries in households.

The equipment proper to the first category, "Large household appliances", and to the 10th category, "Automatic dispensers", of Annex 1A in WEEE Directive, are specified in Annex 1B in the same Directive; this list of products shows:

- Large cooling appliance
- Refrigerators
- Freezers
- Other large appliances used for refrigeration, conservation and storage of food
- Air conditioner appliances
- Other fanning, exhaust ventilation and conditioning equipment
- Automatic dispenser for hot or cold bottles and cans

Article 10 of WEEE Directive establishes that, from 13 August 2005, new electrical and electronic equipment put on the market are appropriately identified as waste subject to separate collection, by means of the proper symbol shown in Annex IV of the same Directive.

Article 4 of RoHS Directive establishes that, from 1 July 2006, new electrical and electronic equipment put on the market does not contain the following substances:

- Lead
- Mercury
- Cadmium
- Hexavalent chromium
- Polybrominated biphenyls (PBB)
- Polybrominated diphenyl ethers (PBDE)

The restriction of use of these hazardous substances shall not apply to the applications listed in the Annex of the same Directive; among these applications the following exceptions are particularly interesting in air conditioning / refrigerating systems:

- Lead as an alloying element in steel containing up to 0,35% lead by weight, aluminium containing up to 0,4% lead by weight and as a copper alloy containing up to 4% lead by weight
- Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators

The Member States of European Community had to adopt the two Directives 2002/95/EC and 2002/96/EC, with the next updating 2003/108/EC, before 13 August 2004, unless delays granted by the European Parliament.

For a long time Castel Company has started a careful inquiry, together with its suppliers, to identify the presence or not of the above-mentioned hazardous substances, either in its own products or in its own production processes, and to remove them progressively.

At the end of this wide examination Castel Company may declare that its products:

1. Do not contain mercury, cadmium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE)
2. Do not contain hexavalent chromium, used for the surface treatments (yellow zinc plating) of steel parts. Castel Company has removed the yellow zinc plating treatments from all its products, before the end of 2005, and has chosen:
  - other surface treatments containing trivalent chromium instead of hexavalent chromium.
  - where possible, other materials which don't need surface treatments.
3. Contain lead as an alloying element in steel, aluminium and copper alloys within the accepted limits according to the Annex of RoHS Directive.

## CONDIZIONI GENERALI DI VENDITA

### ORDINI

Gli ordini presuppongono da parte del cliente, l'accettazione integrale delle nostre condizioni di vendita elencate di seguito e non ci impegnano mai alle condizioni di acquisto dell'acquirente.

### SPEDIZIONI

Le merci viaggiano a rischio e pericolo del cliente anche in caso di vendita "franco fabbrica".

### IMBALLI

Gli imballi sono fatturati al prezzo di costo e non sono accettati di ritorno.

### CONSEGNE

I termini di consegna non sono impegnativi: non è quindi accettato alcun addebito di responsabilità o penalità per ritardi di consegna. Eventuali ritardi non danno diritto alla risoluzione del contratto.

### PAGAMENTI

I pagamenti devono essere effettuati presso la nostra sede. I ritardi di pagamento ci danno il diritto alla sospensione delle forniture e allo scioglimento dei contratti in corso.

### RECLAMI

In genere valgono solamente i reclami inoltrati presso la nostra sede entro dieci giorni dalla ricezione dei materiali. Eventuali difetti evidenti che si rivelassero durante l'uso e dopo lo scadere dei dieci giorni, saranno considerati secondo i termini del paragrafo "garanzia".

### GARANZIA

Tutti i prodotti Castel sono garantiti per un periodo di 12 mesi. La garanzia riguarda tutti quei prodotti o parti di essi che risultino difettosi entro il periodo della garanzia stessa. Il cliente dovrà in questo caso, a sue spese, rimandare i materiali unitamente a una descrizione dettagliata dei difetti riscontrati. La garanzia non è riconosciuta, quando i difetti dei prodotti Castel risultino dovuti a errori del cliente o di terzi quali: installazioni errate, usi contrari alle indicazioni fornite dalla Castel, manomissioni. Per eventuali difetti o vizi dei propri prodotti, la Castel si impegna alla pura e semplice sostituzione degli stessi senza riconoscere, in nessun caso, diritti a rifusione di danni di qualsiasi specie. La Castel si riserva il diritto di apportare variazioni o modifiche ai propri prodotti senza preavviso ed in qualsiasi momento.

### RESI

Non si accettano restituzioni di merci che non siano state da noi esplicitamente autorizzate e non ci giungano in porto franco.

### PREZZI

Si intendono sempre per merce "franco fabbrica" e possono essere modificati in qualsiasi momento in funzione dei costi.

### VERTENZE

Per qualsiasi vertenza è competente il Tribunale di Milano.

## APPLICAZIONE DELLA DIRETTIVA 97/23/CE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO, DEL 29 MAGGIO 1997, IN MATERIA D'ATTREZZATURE A PRESSIONE NEI CONFRONTI DEI PRODOTTI CASTEL PER LA REFRIGERAZIONE

La Direttiva 97/23/CE (PED) si applica alla progettazione, fabbricazione e valutazione di conformità delle attrezzature a pressione e degli insiemi con una pressione massima ammissibile "PS" superiore a 0,5 bar con l'esclusione dei casi elencati nell'Articolo 1, Paragrafo 3 della medesima Direttiva. La Direttiva PED è stata recepita dallo Stato Italiano con il Decreto Legislativo N° 93 del 25/02/2000 che è entrato in vigore il giorno successivo a quello della sua pubblicazione sulla Gazzetta Ufficiale della Repubblica Italiana N° 62/L del 18/04/2000. A partire dal 30 maggio 2002, negli Stati membri della Comunità Europea, è divenuta obbligatoria la commercializzazione unicamente di attrezzature a pressione marcate CE secondo la Direttiva PED.

Ai fini della Direttiva valgono le seguenti definizioni riprese di seguito nel presente Catalogo:

- Attrezzature a pressione: recipienti, tubazioni, accessori di sicurezza ed accessori a pressione.
- Recipiente: un alloggiamento progettato e costruito per contenere fluidi in pressione.
- Tubazioni: i componenti di una conduttura destinati al trasporto di fluidi, allorché essi sono collegati al fine di essere inseriti in un sistema a pressione.
- Accessori di sicurezza: i dispositivi destinati alla protezione degli apparecchi a pressione contro il superamento dei limiti ammissibili.
- Accessori a pressione: dispositivi aventi funzione di servizio e i cui alloggiamenti sono sottoposti a pressione; ad esempio: valvole solenoidi, rubinetti in genere, indicatori.
- Insiemi: varie attrezzature a pressione assiemate da un costruttore per costituire un tutto integrato e funzionante.
- Pressione massima ammissibile (PS): la pressione massima per la quale l'attrezzatura è progettata, specificata dal costruttore.
- Temperatura minima / massima ammissibile (TS): le temperature minima / massima per le quali l'attrezzatura è progettata, specificata dal costruttore.
- Volume (V): il volume interno di una camera compreso il volume dei raccordi alla prima connessione ed escluso il volume degli elementi interni permanenti.
- Dimensione nominale (DN): la designazione numerica della dimensione che è comune a tutti i componenti di un sistema di tubazioni
- Fluidi: i gas, i liquidi e i vapori allo stato puro e le loro miscele.

Nell'Articolo 3 e nel successivo Allegato II della Direttiva le attrezzature a pressione sono classificate in categorie di rischio crescente dalla I alla IV in funzione di:

- Stato del fluido contenuto
- Classe di pericolosità del fluido contenuto
- Tipo di attrezzatura
- Dimensioni e potenziale energetico; V, DN, PS, PS x V, PS x DN

e devono soddisfare i Requisiti Essenziali di Sicurezza stabiliti nell'Allegato I della Direttiva PED.

Le attrezzature a pressione aventi caratteristiche inferiori o pari ai limiti fissati ai punti 1.1, 1.2 e 1.3 e al punto 2 dell'Articolo 3 della Direttiva PED non devono soddisfare i Requisiti Essenziali di Sicurezza stabiliti nell'Allegato I, ma devono essere progettati e fabbricati secondo una corretta

prassi costruttiva in uso in uno degli Stati membri che assicuri la sicurezza di utilizzazione (Articolo 3, Paragrafo 3). Tali attrezzature non devono recare la marcatura CE.

Nell'Articolo 9 della Direttiva i fluidi sono classificati, in base alla loro pericolosità, in due gruppi:

- Gruppo I che comprende i fluidi pericolosi. Per fluidi pericolosi s'intendono le sostanze o i preparati definiti all'articolo 2 della direttiva 67/548/CEE del 27 giugno 1967 e successivi emendamenti, relativa alla classificazione, imballaggio ed etichettatura delle sostanze pericolose. Nel gruppo I sono compresi i fluidi: esplosivi, estremamente infiammabili, facilmente infiammabili, infiammabili, altamente tossici, tossici, comburenti.

- Gruppo II che comprende tutti gli altri fluidi non elencati nel gruppo I.

I prodotti Castel sono adatti all'impiego con fluidi refrigeranti appartenenti al Gruppo II. Appartengono a questo gruppo tutti i refrigeranti classificati A1 nell'Annex E della norma EN 378-1: 2008 più i fluidi R30, R123, R141b, R245fa classificati in altri gruppi di sicurezza.

Fra i fluidi elencati nella norma sono presenti i ben noti R12; R22; R134a; R404A; R407C; R410A; R502; R507.

## APPLICAZIONE DELLA DIRETTIVA 2002/95/CE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO, DEL 27 GENNAIO 2003, SULLA RESTRIZIONE DELL'USO DI DETERMINATE SOSTANZE PERICOLOSE NELLE APPARECCHIATURE ELETTRICHE ED ELETTRONICHE NEI CONFRONTI DEI PRODOTTI CASTEL PER LA REFRIGERAZIONE

La Direttiva 2002/95/CE, meglio conosciuta come Direttiva RoHS (Restriction of Hazardous Substances), mira a proibire o limitare l'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche e al recupero e allo smaltimento ecologicamente corretto dei rifiuti d'apparecchiature elettriche ed elettroniche.

Le disposizioni della Direttiva RoHS si applicano alle apparecchiature elettriche ed elettroniche che rientrano nelle categorie 1, 2, 3, 4, 5, 6, 7, 10 dell'Allegato 1A della Direttiva 2002/96/CE (RAEE):  
- Rifiuti di apparecchiature elettriche ed elettroniche) nonché alle lampade ad incandescenza e ai lampadari d'abitazione.  
Le apparecchiature appartenenti alle categorie 1, "Grandi elettrodomestici", e 10, "Distributori automatici", dell'Allegato 1A della Direttiva RAEE sono dettagliate nell'Allegato 1B della stessa Direttiva; in quest'elenco sono presenti fra l'altro:

- Grandi apparecchi di refrigerazione
- Frigoriferi
- Congelatori
- Altri grandi elettrodomestici per la refrigerazione, la conservazione e il deposito degli alimenti
- Apparecchi per il condizionamento
- Altre apparecchiature per la ventilazione, l'estrazione dell'aria e il condizionamento
- Distributori di bevande calde, fredde, bottiglie e lattine

L'Articolo 10 della Direttiva RAEE prevede che, a partire dal 13 agosto 2005, le apparecchiature elettriche ed elettroniche nuove immesse sul mercato siano identificate adeguatamente come rifiuti soggetti a raccolta separata, mediante l'apposito simbolo indicato nell'Allegato IV della medesima Direttiva.

L'Articolo 4 della Direttiva RoHS prevede che, a partire dal 1 luglio 2006, le apparecchiature elettriche ed elettroniche nuove immesse sul mercato non contengano le seguenti sostanze:

- Piombo
  - Mercurio
  - Cadmio
  - Cromo esavalente
  - Bifenili polibromurati (PBB)
  - Etere di difenile polibromurato (PBDE)
- Nell'Allegato della stessa Direttiva sono ammesse deroghe al divieto d'uso delle suddette sostanze pericolose; fra le varie deroghe previste sono di particolare interesse per il settore della refrigerazione/condizionamento le seguenti:
- Piombo come elemento di lega nell'acciaio contenente fino allo 0,35% di piombo in peso., alluminio contenente fino allo 0,4% di piombo in peso e leghe di rame contenenti fino al 4% di piombo in peso
  - Cromo esavalente come anticorrosivo nei sistemi di raffreddamento in acciaio al carbonio nei frigoriferi ad assorbimento

Le Direttive 2002/95/CE e 2002/96/CE, con il successivo aggiornamento 2003/108/CE, sono state recepite dallo Stato Italiano con il Decreto Legislativo N° 151 del 25 luglio 2005, pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana N° 135/L del 29 luglio 2005.

La ditta Castel ha avviato da tempo un'accurata indagine, congiuntamente con i propri fornitori, con lo scopo di individuare la presenza o meno delle sopradette sostanze pericolose sia nei propri prodotti sia nei propri processi produttivi e progressivamente eliminarle.

Al termine di quest'ampia analisi la ditta Castel è in grado di dichiarare che i propri prodotti:

1. Non contengono mercurio, cadmio, bifenili polibromurati (PBB), etere di difenile polibromurato (PBDE)
2. Non contengono cromo esavalente, utilizzato nel trattamento superficiale di zincatura tropicalizzata dei particolari d'acciaio. La ditta Castel ha eliminato, prima della fine del 2005, i trattamenti di zincatura tropicalizzata da tutti i suoi prodotti per passare:
  - a differenti trattamenti superficiali contenenti cromo trivalente al posto del cromo esavalente.
  - ove possibile, a materiali che non necessitano di trattamenti superficiali
3. Contengono piombo come elemento di lega nell'acciaio, nell'alluminio e nelle leghe di rame entro i limiti di accettabilità prevista dall'allegato della Direttiva RoHS

## RESISTENZA A PRESSIONE

Tutti i prodotti elencati nel presente catalogo, se sottoposti a prova idrostatica, garantiscono una resistenza a pressione almeno pari a 1,43 x PS secondo quanto previsto dalla direttiva 97/23/CE. Tutti i prodotti elencati nel presente catalogo, se sottoposti a prova di scoppio, garantiscono una resistenza a pressione almeno pari a 3 x PS

## ATTACCHI DEI PRODOTTI CASTEL

I prodotti Castel possono essere forniti con differenti tipi di attacchi. In modo particolare i prodotti Castel sono costruiti o con attacchi filettati o con attacchi a saldare.

In Tabella 1 è riportata l'equivalenza tra i codici Castel e le dimensioni in pollici. Questi codici sono normalmente impiegati nel mercato internazionale.

In Tabella 2 è riportata l'equivalenza tra i codici Castel e le dimensioni in millimetri.

## DESCRIZIONE DEGLI ATTACCHI ATTUALMENTE UTILIZZATI PER I PRODOTTI CASTEL.

### 1) ATTACCHI FILETTATI.

Possono essere di tre tipi differenti:

#### FLARE

Attacco filettato (secondo SAE J513-92; ASME B1.1-89) per collegamento con tubo di rame con estremità opportunamente svasata "cartellatura" a mezzo di un adatto bocchettone (vedi Tabella 3).

#### NPT

Attacco filettato con filettatura conica (secondo ASME B1.20.1-92) per il collegamento di raccordi, rubinetti, valvole di sicurezza a serbatoi o tubazioni in acciaio.

#### FPT

Attacco filettato femmina con filettatura GAS cilindrica (secondo ISO 228/1) usato in idraulica per il collegamento di raccordi o rubinetti a serbatoi o tubazioni in acciaio (vedi tabella 4).

Esempio: valvole a solenoide per acqua o aria.

### 2) ATTACCHI A SALDARE.

Possono essere di quattro differenti tipi e sono adatti per tubi con diametro sia in pollici che in millimetri:

#### ODS (OPPURE ODF)

Attacco a saldare femmina per tubo in rame. La dimensione indicata corrisponde al diametro esterno del tubo in rame a cui effettuare il collegamento.

Esempio: 1/2" ODS attacco a saldare adatto a ricevere al suo interno un tubo di rame con diametro esterno di 1/2".

#### ODM

Attacco a saldare maschio per tubo in rame. La dimensione indicata corrisponde al diametro esterno del tubo in rame a cui effettuare il collegamento.

Esempio: 16 ODM attacco a saldare adatto a collegarsi ad un tubo di rame con diametro esterno da 16 mm mediante un manicotto femmina/femmina M16 (nel caso specifico è il modello Castel 7700/M16)

#### IDS

Attacco a saldare maschio per tubo in rame. La dimensione indicata corrisponde al diametro interno del tubo in rame a cui effettuare il collegamento.

Esempio: 10 IDS attacco a saldare adatto a ricevere al suo esterno un tubo in rame con diametro interno di 10 mm.

#### W

Attacco a saldare per tubi in acciaio. La dimensione indicata corrisponde al diametro esterno del tubo in acciaio a cui effettuare il collegamento. Esempio: 76,1 W attacco a saldare adatto a collegarsi a un tubo in acciaio con diametro esterno di 76,1 mm mediante saldatura elettrica di testa.

## PRESSURE CONTAINMENT

All the products illustrated in this Catalogue, if submitted to hydrostatic test, guarantee a pressure strength at least equal to 1,43 x PS in compliance with the Directive 97/23/EC.

All the products illustrated in this Catalogue, if submitted to burst test, guarantee a pressure strength at least equal to 3 x PS.

## CONNECTIONS OF CASTEL PRODUCTS

Castel products can be supplied with different connections.

In particular Castel products are produced either with threaded connections or solder connections.

Table 1 shows the equivalence between Castel codes and dimensions in inches. These codes are commonly used in the international market.

Table 2 shows the equivalence between Castel codes and dimensions in millimetres.

## DESCRIPTION OF CONNECTIONS THAT ARE CURRENTLY USED FOR CASTEL PRODUCTS.

### 1) THREADED CONNECTIONS

They can be of three different types:

#### FLARE

Straight threaded connection (according to SAE J513-92; ASME B1.1-89) for junction to a copper pipe with a suitable flared end, using a right nut (see Table 3).

#### NPT

Taper threaded connection (according to ASME B1.20.1-92) to joint fittings, valves, safety valves to vessel or steel pipes.

#### FPT

Straight female threaded connection (according to UNI ISO 228/1) used in the hydraulic system to joint fittings or valves to vessel or steel pipes (see table 4).

F.e.: solenoid valves for water or air

### 2) SOLDER CONNECTIONS

They can be of four different types and can fit pipes with diameter both in inches and in millimetres:

#### ODS (OR ODF)

Female solder connection for copper tubes. The indicated size corresponds to the outer diameter of the copper tube which to joint.

F.e.: 1/2" ODS solder connection suitable to receive inside a copper pipe with a 1/2" outer diameter

#### ODM

Male solder connection for copper tubes. The indicated size corresponds to the outer diameter of the copper tube which to joint.

F.e.: 16 ODM solder connection suitable to joint a copper pipe with a 16 mm outer diameter, by means of an M16 female/female copper sleeve (in this case the type Castel 7700/M16)

#### IDS

Male solder connection for copper tube. The indicated size corresponds to the inner diameter of the copper tube which to joint.

F.e.: 10 IDS solder connection suitable to receive outside a copper pipe with an 10 mm inner diameter)

#### W

Solder connection for steel pipes. The indicated size corresponds to the external diameter of the steel pipe which to joint.

F.e.: 76,1 W solder connection suitable to connect a steel pipe with a 76,1 mm external diameter, by means of butt welding.

TABELLA 1 - Corrispondenza tra i codici Castel e le dimensioni in pollici  
TABLE 1 - Equivalence between Castel code and dimensions in inches

Codifica Castel Castel code	Dimensione Dimension [in]
.../1	1/8"
.../2	1/4"
.../3	3/8"
.../4	1/2"
.../5	5/8"
.../6	3/4"
.../7	7/8"
.../8	1"
.../9	1" 1/8
.../11	1" 3/8
.../13	1" 5/8
.../17	2" 1/8
.../21	2" 5/8
.../24	3"
.../25	3" 1/8
.../28	3" 1/2
.../29	3" 5/8
.../33	4" 1/8
.../34	4" 1/4

Esempio: 1098/7 - valvola a solenoide con attacchi a saldare con  $\varnothing = 7/8"$ .  
F.e.: 1098/7 - solenoid valve with solder connection with  $\varnothing = 7/8"$ .

TABELLA 2 - Corrispondenza tra i codici Castel e le dimensioni in millimetri  
TABLE 2 - Equivalence between Castel code and dimensions in millimeters

Codifica Castel Castel code	Dimensione Dimension [mm]
.../M6	6
.../M10	10
.../M12	12
.../M15	15
.../M18	18
.../M22	22
.../M28	28
.../M42	42
.../M64	64

Esempio: 4411/M42A - filtro disidratatore con cartuccia solida anti acida sostituibile con attacchi a saldare con  $\varnothing = 42$  mm.  
F.e.: 4411/M42A - filter drier with replaceable anti-acid solid core with solder connection with  $\varnothing = 42$  mm

TABELLA 3 - Attacco FLARE  
TABLE 3 - Flare Connection

Codice Castel Castel Code	FLARE FLARE	Adatto per tubo in rame Suitable for copper tube	Filettatura Thread
.../2	1/4"	$\varnothing$ 1/4"	7/16" - 20 UNF
.../2.5	5/16"	$\varnothing$ 5/16"	1/2" - 20 UNF
.../3	3/8"	$\varnothing$ 3/8"	5/8" - 18 UNF
.../4	1/2"	$\varnothing$ 1/2"	3/4" - 16 UNF
.../5	5/8"	$\varnothing$ 5/8"	7/8" - 14 UNF
.../6	3/4"	$\varnothing$ 3/4"	1.1/16" - 14 UNS
.../7	7/8"	$\varnothing$ 7/8"	1.1/4" - 12 UNF
.../8	1"	$\varnothing$ 1"	1.3/8" - 12 UNF

TABELLA 4 - Attacco FPT  
TABLE 4 - FPT Connection

Codice Castel Castel Code	Filettatura Thread
.../01	G 1/8"
.../02	G 1/4"
.../03	G 3/8"
.../04	G 1/2"
.../06	G 3/4"
.../08	G 1"
.../010	G 1.1/4"
.../012	G 1.1/2"
.../016	G 2"
.../020	G 2.1/2"
.../024	G 3"





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## PRODOTTI PER LA REFRIGERAZIONE E IL CONDIZIONAMENTO DELL'ARIA REFRIGERATION & AIR CONDITIONING PRODUCTS PRODUITS DE QUALITÉ POUR LA RÉFRIGÉRATION ET LA CLIMATISATION QUALITAETSKOMPONENTEN FÜR DIE KÄLTETECHNIK UND KLIMATISIERUNG

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VALVOLE D'ESPANSIONE A SOLENOIDE CON ORIFIZIO INTERCAMBIABILE  
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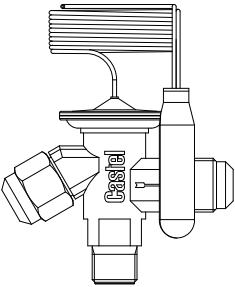
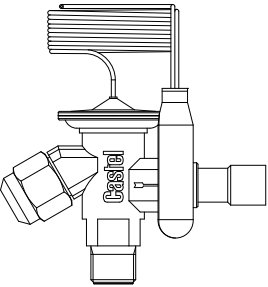
## VALVOLE SOLENOIDI PER IMPIEGHI INDUSTRIALI SOLENOID VALVES FOR INDUSTRIAL PURPOSE ELECTROVANNES POUR APPLICATIONS INDUSTRIELLES MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE

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**VALVOLE D'ESPANSIONE TERMOSTATICHE CON GRUPPO ORIFICIO INTERCAMBIABILE CARICA LIQUIDA (1) CAMPO TEMPERATURE D'EVAPORAZIONE -40 → +10 °C**  
**THERMOSTATIC EXPANSION VALVES WITH INTERCHANGEABLE ORIFICE ASSEMBLY LIQUID CHARGE (1) EVAPORATING TEMPERATURE RANGE -40 → +10 °C**  
**DÉTENDEURS THERMOSTATIQUES AVEC ENSEMBLES ORIFICES INTERCHANGÉABLES CHARGE LIQUIDE (1) PLAGE DE TEMPÉRATURE D'ÉVAPORATION -40 → +10 °C**  
**THERMOSTATISCHE EXPANSIONSVENTILE MIT AUSTAUSCHBARER DÜSENEINSATZ FLÜSSIGKEITSFÜLLUNG (1) VERDAMPF TEMPERATUR BEREICH -40 → +10 °C**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse						Refrigerante Refrigerant Frigorigène Kältemittel	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
		SAE Flare			ODS Ø [mm]		ODS Ø [in.]			min	max		
		In	Out	Equal	Out	Equal	Out						Equal
	2210/4	3/8"	1/2"	-	-	-	-	R22 - R407C	34	-60	+120	1	
	2210/4E			1/4"	-	-	-	R22 - R407C					
	2220/4			-	-	-	-	R134a					
	2220/4E			1/4"	-	-	-	R134a					
	2230/4			-	-	-	-	R404A - R507					
	2230/4E			1/4"	-	-	-	R404A - R507					
	2210/4S	3/8"	-	-	-	-	1/2"	-	R22 - R407C	34	-60	+120	1
	2210/4SE				-	-	1/2"	1/4"	R22 - R407C				
	2210/M12S				12	-	-	-	R22 - R407C				
	2210/M12SE				12	6	-	-	R22 - R407C				
	2220/4S				-	-	1/2"	-	R134a				
	2220/4SE				-	-	1/2"	1/4"	R134a				
	2220/M12S				12	-	-	-	R134a				
	2220/M12SE				12	6	-	-	R134a				
	2230/4S				-	-	1/2"	-	R404A - R507				
	2230/4SE				-	-	1/2"	1/4"	R404A - R507				
	2230/M12S				12	-	-	-	R404A - R507				
	2230/M12SE				12	6	-	-	R404A - R507				

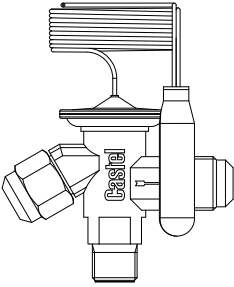
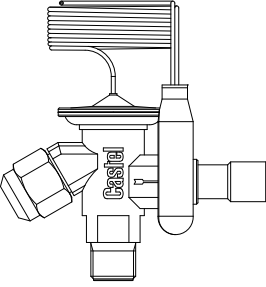
(1): gruppo orificio da ordinare separatamente

(1): orifice assembly to be ordered separately

(1): ensemble orifice doit être commandé séparément

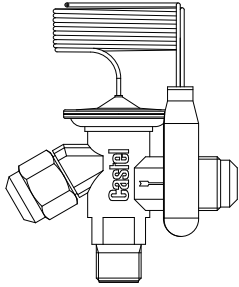
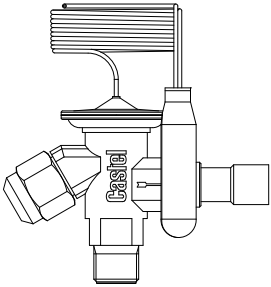
(1): Düsenersatz sind separat zu bestellen

**VALVOLE D'ESPANSIONE TERMOSTATICHE CON GRUPPO ORIFICIO INTERCAMBIABILE CARICA MOP +15 °C (1) CAMPO TEMPERATURE D'EVAPORAZIONE -40 → +10 °C**  
**THERMOSTATIC EXPANSION VALVES WITH INTERCHANGEABLE ORIFICE ASSEMBLY MOP CHARGE +15 °C (1) EVAPORATING TEMPERATURE RANGE -40 → +10 °C**  
**DETENDEUR THERMOSTATIQUES AVEC ENSEMBLES ORIFICES INTERCHANGEABLES CHARGE MOP +15°C (1) PLAGE DE TEMPÉRATURE D'ÉVAPORATION -40 → +10 °C**  
**THERMOSTATISCHE EXPANSIONSVENTILE MIT AUSTAUSCHBARER DÜSENEINSATZ MOPFÜLLUNG +15°C (1) VERDAMPF TEMPERATUR BEREICH -40 → +10 °C**

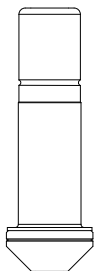
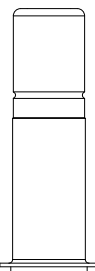
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse						Refrigerante Refrigerant Frigorigène Kältemittel	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
		SAE Flare			ODS Ø [mm]		ODS Ø [in.]			min	max		
		In	Out	Equal	Out	Equal	Out						Equal
	2211/4	3/8"	1/2"	-	-	-	-	R22 - R407C	34	-60	+120	1	
	2211/4E			1/4"	-	-	-	-					R22 - R407C
	2221/4			-	-	-	-	-					R134a
	2221/4E			1/4"	-	-	-	-					R134a
	2231/4			-	-	-	-	-					R404A - R507
	2231/4E			1/4"	-	-	-	-					R404A - R507
	2211/4S	3/8"	-	-	-	-	1/2"	-	R22 - R407C	34	-60	+120	1
	2211/4SE				-	-	1/2"	1/4"	R22 - R407C				
	2211/M12S				12	-	-	-	R22 - R407C				
	2211/M12SE				12	6	-	-	R22 - R407C				
	2221/4S				-	-	1/2"	-	R134a				
	2221/4SE				-	-	1/2"	1/4"	R134a				
	2221/M12S				12	-	-	-	R134a				
	2221/M12SE				12	6	-	-	R134a				
	2231/4S				-	-	1/2"	-	R404A - R507				
	2231/4SE				-	-	1/2"	1/4"	R404A - R507				
	2231/M12S				12	-	-	-	R404A - R507				
	2231/M12SE				12	6	-	-	R404A - R507				

- (1): gruppo orificio da ordinare separatamente  
(1): orifice assembly to be ordered separately  
(1): ensemble orifice doit être commandé séparément  
(1): Düseneinsatz sind separat zu bestellen

**VALVOLE D'ESPANSIONE TERMOSTATICHE CON GRUPPO ORIFICIO INTERCAMBIABILE CARICA MOP -20 °C (1) CAMPO TEMPERATURE D'EVAPORAZIONE -60 → -25 °C**  
**THERMOSTATIC EXPANSION VALVES WITH INTERCHANGEABLE ORIFICE ASSEMBLY MOP CHARGE -20 °C (1) EVAPORATING TEMPERATURE RANGE -60 → -25 °C**  
**DETENDEUR THERMSTATIQUES AVEC ENSEMBLES ORIFICES INTERCHENGEABLES CHARGE MOP -20°C (1) PLAGE DE TEMPÉRATURE D'ÉVAPORATION -60 → -25 °C**  
**THERMOSTATISCHE EXPANSIONSVENTILE MIT AUSTAUSCHBARER DÜSENEINSATZ MOPFÜLLUNG -20°C (1) VERDAMPF TEMPERATUR BEREICH -60 → -25 °C**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse								Refrigerante Refrigerant Frigorigène Kältemittel	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare			ODS Ø [mm]		ODS Ø [in.]		min			max		
		In	Out	Equal	Out	Equal	Out	Equal						
	2234/4	3/8"	1/2"	-	-	-	-	R404A - R507	34	-60	+120	1		
	2234/4E			1/4"	-	-	-	-					R404A - R507	
	2234/4S	3/8"	-	-	-	-	1/2"	-	R404A - R507	34	-60	+120	1	
	2234/4SE				-	-	1/2"	1/4"	R404A - R507					
	2234/M12S				12	-	-	-	R404A - R507					
	2234/M12SE				12	6	-	-	R404A - R507					

- (1): gruppo orificio da ordinare separatamente  
(1): orifice assembly to be ordered separately  
(1): ensemble orifice doit être commandé séparément  
(1): Düsenersatz sind separat zu bestellen

Potenzialità nominali in kW (1) Rated capacities in kW (1) Capacités nominales en kW (1) Nennleistungen in kW (1)							
Disegno Drawing Dessin Zeichnung	N° Catalogo (2) Part number (2) N° Catalogue (2) Katalog Nr (2)		Campo temperature d'evaporazione [°C] Evaporating temperature range [°C] Plage de température d'évaporation [°C] Verdampfungstemperaturbereich [°C]				Confezione n° pezzi Package pcs Emballage Verpackung
	Valvole con attacchi SAE Flare Valves with SAE Flare connections Vannes avec SAE Flare raccords Ventile mit SAE Flare anschlüsse	Valvole con attacchi ODS Valves with ODS connections Vannes avec ODS raccords Ventile mit ODS anschlüsse	-40 → +10			-60 → -25	
			R22 R407C	R134a	R404A R507	R404A R507	
	220X	-	0,5	0,4	0,38	0,38	10
	2200		1,0	0,9	0,7	0,7	
	2201		2,5	1,8	1,6	1,6	
	2202		3,5	2,6	2,1	2,1	
	2203		5,2	4,6	4,2	3,5	
	2204		8,0	6,7	6,0	4,9	
	2205		10,5	8,6	7,7	6,0	
	2206		15,5	10,5	9,1	6,6	
	220X/S	-	0,5	0,4	0,38	0,38	10
	2200/S		1,0	0,9	0,7	0,7	
	2201/S		2,5	1,8	1,6	1,6	
	2202/S		3,5	2,6	2,1	2,1	
	2203/S		5,2	4,6	4,2	3,5	
	2204/S		8,0	6,7	6,0	4,9	
	2205/S		10,5	8,6	7,7	6,0	
	2206/S		15,5	10,5	9,1	6,6	

**Note:**

(1) Le potenzialità nominali, per il campo di temperature -40 → +10, sono riferite a:

- Temperatura d'evaporazione T<sub>evap</sub> = +5 °C
- Temperatura di condensazione T<sub>cond</sub> = +32 °C
- Temperatura del liquido all'ingresso della valvola T<sub>liq</sub> = +28 °C

Le potenzialità nominali, per il campo di temperature -60 → -25, sono riferite a:

- Temperatura d'evaporazione T<sub>evap</sub> = -30 °C
- Temperatura di condensazione T<sub>cond</sub> = +32 °C
- Temperatura del liquido all'ingresso della valvola T<sub>liq</sub> = +28 °C

(1) Rated capacities, for temperature range -40 → +10, are based on:

- Evaporating temperature T<sub>evap</sub> = +5 °C
- Condensing temperature T<sub>cond</sub> = +32 °C
- Refrigerant liquid temperature ahead of valve T<sub>liq</sub> = +28 °C

Rated capacities, for temperature range -60 → -25, are based on:

- Evaporating temperature T<sub>evap</sub> = -30 °C
- Condensing temperature T<sub>cond</sub> = +32 °C
- Refrigerant liquid temperature ahead of valve T<sub>liq</sub> = +28 °C

(1) Les capacités nominales pour plage de température -40 → +10 se basent sur:

- Température d'évaporation T<sub>evap</sub> = +5 °C
- Température de condensation T<sub>cond</sub> = +32 °C

- Température du liquide frigorigène en amont du détendeur T<sub>liq</sub> = +28 °C
- Les capacités nominales pour plage de température -60 → -25 se basent sur:
- Température d'évaporation T<sub>evap</sub> = -30 °C
- Température de condensation T<sub>cond</sub> = +32 °C
- Température du liquide frigorigène en amont du détendeur T<sub>liq</sub> = +28 °C

(1) Nennleistungen für den Temperaturbereich -40 → +10 basieren auf:

- Verdampfungstemperatur T<sub>verd</sub> = +5 °C
  - Kondensationstemperatur T<sub>kond</sub> = +32 °C
  - Temperatur des flüssigen Kältemittels vor dem Ventil T<sub>flü</sub> = +28 °C
- Nennleistungen für den Temperaturbereich -60 → -25 basieren auf:
- Verdampfungstemperatur T<sub>verd</sub> = -30 °C
  - Kondensationstemperatur T<sub>kond</sub> = +32 °C
  - Temperatur des flüssigen Kältemittels vor dem Ventil T<sub>flü</sub> = +28 °C

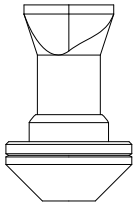
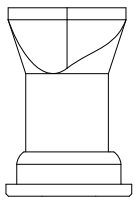
(2) I gruppi orificio sono forniti completi di filtro

(2) The assembly orifices are supplied with filter

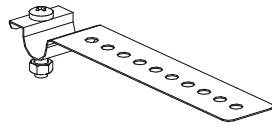
(2) Les orifices sont fournis avec le filtre

(2) Der Düseneinsatz wird komplett mit Filter geliefert

**FILTRI PER GRUPPO ORIFICIO**  
**FILTERS FOR ORIFICE ASSEMBLY**  
**FILTRES POUR ENSEMBLE ORIFICE**  
**DÜSENEINSATZ FILTER**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr		Confezione n° pezzi Package pcs. Emballage Verpackung
	Valvole con attacchi SAE Valves with SAE connections Vannes avec SAE raccords Ventile mit SAE anschlüsse	Valvole con attacchi ODS Valves with ODS connections Vannes avec ODS raccords Ventile mit ODS anschlüsse	
	2290	-	10
	-	2290/S	10

**FASCETTA SERRA BULBO (1)**  
**BULB STRAP (1)**  
**COLLIER POUR BULBE (1)**  
**FÜHLERBAND (1)**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Confezione n° pezzi Package pcs. Emballage Verpackung
	G9150/R61	10

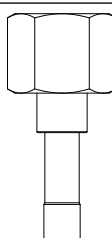
(1): con vite e dado

(1): with screw and nut

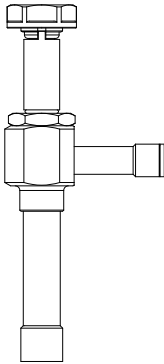
(1): avec vis et écrous

(1): mit Schraube und Mutter

**ADATTATORI ODS**  
**SOLDER ADAPTERS**  
**ADAPTEURS DE BRASAGE**  
**LÖTADAPTER**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi ODS Ø Connections ODS Ø Raccords ODS Ø Anschlüsse ODS Ø		Confezione n° pezzi Package pcs Emballage Verpackung
		[in.]	[mm]	
	2271/M6S	-	6	5
	2271/2S	1/4"	-	
	2271/3S	3/8"	-	
	2271/M10S	-	10	

**VALVOLE D'ESPANSIONE A SOLENOIDE CON ORIFIZIO INTERCAMBIABILE**  
**SOLENOID EXPANSION VALVES WITH INTERCHANGEABLE ORIFICE**  
**DÉTENDEURS À COMMANDE ÉLECTRIQUES AVEC ENSEMBLE ORIFICE INTERCHANGEABLE**  
**ELEKTRISCH BETRIEBENE EXPANSIONSVENTILE MIT AUSTAUSCHBARER DÜSENEINSATZ**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse				Kv [m³/h]	Potenzialità nominali [kW] (1) Rated capacity [kW] (1) Capacités nominales [kW] (1) Nennleistungen [kW] (1)				PS [bar]	TS [°C]		Confezione n° pezzi Package pcs. Emballage Verpackung
		In		Out			R22	R134a	R404A R507	R407C		Min	Max	
		Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]									
	2028/3S01	3/8"	-	1/2"	-	0.01	1	0.9	0.8	1.1	45	-50	+100	1
	2028/M10S01	-	10	-	12	0.01	1	0.9	0.8	1.1				
	2028/3S02	3/8"	-	1/2"	-	0.017	1.9	1.7	1.6	2				
	2028/M10S02	-	10	-	12	0.017	1.9	1.7	1.6	2				
	2028/3S03	3/8"	-	1/2"	-	0.025	2.5	2	1.9	2.4				
	2028/M10S03	-	10	-	12	0.025	2.5	2	1.9	2.4				
	2028/3S04	3/8"	-	1/2"	-	0.046	3.9	3.2	2.9	3.8				
	2028/M10S04	-	10	-	12	0.046	3.9	3.2	2.9	3.8				
	2028/3S05	3/8"	-	1/2"	-	0.064	6.7	5.6	5.1	6.7				
	2028/M10S05	-	10	-	12	0.064	6.7	5.6	5.1	6.7				
	2028/3S06	3/8"	-	1/2"	-	0.114	9.2	7.7	7	9.1				
	2028/M10S06	-	10	-	12	0.114	9.2	7.7	7	9.1				
	2028/4S07	1/2"	-	5/8"	-	0.209	14.7	12.2	11.3	15.3				
	2028/M12S07	-	12	-	16	0.209	14.7	12.2	11.3	15.3				

**Note:**

(1) Le potenzialità nominali sono riferite a:

- Temperatura d'evaporazione T<sub>evap</sub> = + 5 °C
- Temperatura di condensazione T<sub>cond</sub> = + 32 °C
- Temperatura del liquido all'ingresso della valvola T<sub>liq</sub> = + 28 °C

(1) Rated capacities are based on:

- Evaporating temperature T<sub>evap</sub> = + 5 °C
- Condensing temperature T<sub>cond</sub> = + 32 °C
- Refrigerant liquid temperature ahead of valve T<sub>liq</sub> = + 28 °C

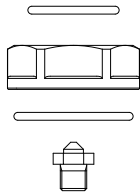
(1) Les capacités nominales se basent sur:

- Température d'évaporation T<sub>evap</sub> = + 5 °C
- Température de condensation T<sub>cond</sub> = + 32 °C
- Température du liquide frigorigène en amont du détendeur T<sub>liq</sub> = + 28 °C

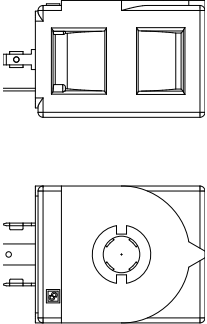
(1) Nennleistungen basieren auf:

- Verdampfungstemperatur T<sub>verd</sub> = + 5 °C
- Kondensationstemperatur T<sub>kond</sub> = + 32 °C
- Temperatur des flüssigen Kältemittels vor dem Ventil T<sub>flü</sub> = + 28 °C

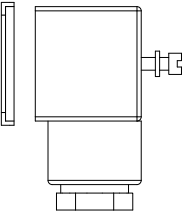
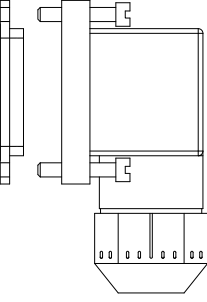
**GRUPPI ORIFICI**  
**ORIFICE ASSEMBLIES**  
**ENSEMBLES ORIFICE**  
**DÜSENEINSATZ**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Tipo orificio Orifice type Type d'orifice Düseinsatz Typ	Potenzialità nominali [kW] Rated capacity [kW] Capacités nominales [kW] Nennleistungen [kW]				Confezione n° pezzi Package pcs. Emballage Verpackung
			R22	R134a	R404A R507	R407C	
	9150/R63	01	1	0.9	0.8	1.1	10
	9150/R64	02	1.9	1.7	1.6	2	
	9150/R65	03	2.5	2	1.9	2.4	
	9150/R66	04	3.9	3.2	2.9	3.8	
	9150/R67	05	6.7	5.6	5.1	6.7	
	9150/R68	06	9.2	7.7	7	9.1	
	9150/R69	07	14.7	12.2	11.3	15.3	

**BOBINE  
COILS  
BOBINES  
SPULEN**

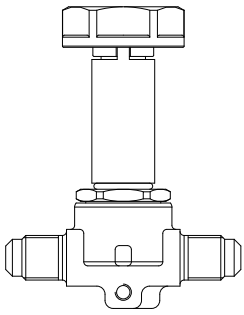
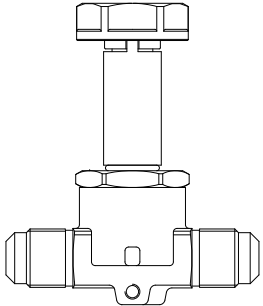
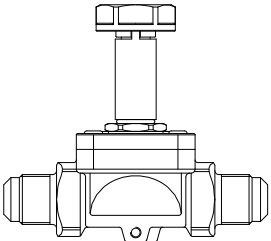
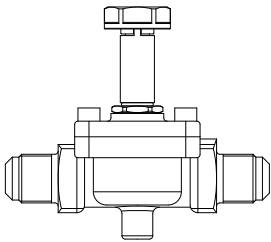
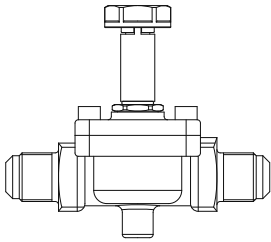
Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° catalogue Katalog Nr	Tensione [V] Voltage [V] Tension [V] Spannung [V]	Frequenza [Hz] Frequency [Hz] Fréquence [Hz] Frequenz [Hz]	Connettori Raccordeme Anschlüsse Connections	
				Grado di protezione IP 65 Degree of protection IP 65 Degré de protection IP 65 Schutz - Klasse IP 65	Grado di protezione IP 68 Degree of protection IP 68 Degré de protection IP 68 Schutz - Klasse IP 68
	9160/RD1	12 D.C.	-	9150/R02 9900/X66	9155/R01 9155/R02
	9160/RD2	24 D.C.	-		
	9160/RA2	24 A.C.	50		
	9160/RA6	220/230 A.C.	50		

**CONNETTORI  
CONNECTORS  
CONNECTEURS  
STECKER**

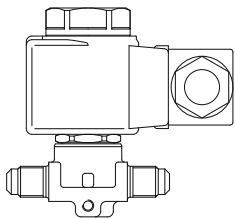
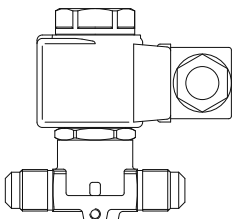
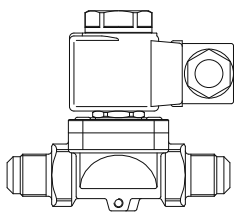
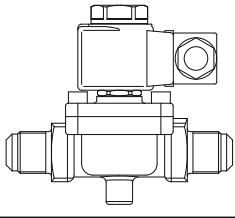
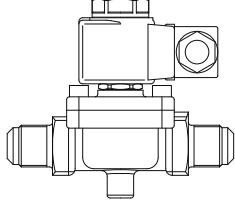
Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Grado di protezione Degree of protection Degré de protection Schutz - klasse	Lunghezza cavo [m] Cable length [m] Longueur du câble [m] Kabellänge [m]	Confezione n° pezzi Package pcs Emballage Verpackung
	9150/R02	IP 65	-	240
	9900/X66		1	100
	9155/R01	IP 65 / IP 68	-	120
	9155/R02		1	5



**VALVOLE SOLENOIDE N.C. ATTACCHI SAE FLARE SENZA BOBINA**  
**N.C. SOLENOID VALVES SAE FLARE CONNECTIONS WITHOUT COILS**  
**VANNES ELECTROMAGNETIQUES N.F. SAE FLARE RACCORDS SANS BOBINE**  
**N.G. MAGNETVENTILE SAE FLARE ANSCHLÜSSE OHNE SPULE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
		SAE Flare			Min	Max	
	1020/2S	1/4"	0.175	45	-35	+105	45
	1020/3S	3/8"	0.23				
	1064/3S	3/8"	0.8	45	-35	+105	45
	1064/4S	1/2"					
	1070/4S	1/2"	2.2	45	-35	+105	24
	1070/5S	5/8"	2.61				
	1050/5S	5/8"	3.8	45	-35	+110	1
	1050/6S	3/4"	4.8				
	1090/5S	5/8"	3.8	45	-35	+105	1
	1090/6S	3/4"	4.8				

**VALVOLE SOLENOIDI N.C. ATTACCHI SAE FLARE CON BOBINA 220/230 VAC (A6), 240 VAC (A7)**  
**N.C. SOLENOID VALVES SAE FLARE CONNECTIONS WITH COILS 220/230 VAC (A6), 240 VAC (A7)**  
**ELECTROVANNES N.F. SAE FLARE RACCORDE AVEC BOBINE 220/230 VAC (A6), 240 VAC (A7)**  
**N.G. MAGNETVENTILE SAE FLARE ANSCHLÜSSE MIT SPULE 220/230 VAC (A6), 240 VAC (A7)**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
					Min	Max	
	1020/2A6	1/4"	0.175	45	-35	+105	45
	1020/2A7						
	1020/3A6	3/8"	0.23				
	1020/3A7						
	1064/3A6	3/8"	0.8	45	-35	+105	45
	1064/3A7						
	1064/4A6	1/2"					
	1064/4A7						
	1070/4A6	1/2"	2.2	45	-35	+105	24
	1070/4A7						
	1070/5A6	5/8"	2.61				
	1070/5A7						
	1050/5A6	5/8"	3.8	45	-35	+110	1
	1050/5A7						
	1050/6A6	3/4"	4.8				
	1050/6A7						
	1090/5A6	5/8"	3.8	45	-35	+105	1
	1090/5A7						
	1090/6A6	3/4"	4.8				
	1090/6A7						

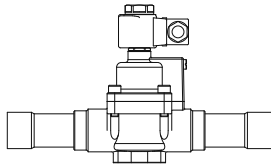
**VALVOLE SOLENOIDE N.C. ATTACCHI ODS SENZA BOBINA**  
**N.C. SOLENOID VALVES ODS CONNECTIONS WITHOUT COILS**  
**VANNES ELECTROMAGNETIQUES N.F. ODS RACCORDS SANS BOBINE**  
**N.G. MAGNETVENTILE ODS ANSCHLÜSSE OHNE SPULE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Attacchi ODS Ø Connections ODS Ø Raccords ODS Ø Anschlüsse ODS Ø		Kv [m³/h]	PS [bar]	TS [°C]		Confezione N° pezzi Package Pcs. Emballage Verpackung
		[in.]	[mm]			Min	Max	
	1028/2S	1/4"	-	0.15	45	-35	+105	40
	1028/2S.E	1/4"	-	0.23				
	1028/3S	3/8"	-					
	1028/M10S	-	10					
	1068/3S	3/8"	-	0.8	45	-35	+105	40
	1068/M10S	-	10					
	1068/M12S	-	12					
	1068/4S	1/2"	-					
	1078/M12S	-	12	2.2	45	-35	+105	17
	1078/4S	1/2"	-	2.61				
	1078/5S	5/8"	16					
	1079/7S	7/8"	22					
	1058/5S	5/8"	16	3.8	45	-35	+110	1
	1058/6S	3/4"	-	4.8				
	1058/7S	7/8"	22	5.7				
	1059/9S	1.1/8"	-					
	1098/5S	5/8"	16	3.8	45	-35	+105	1
	1098/6S	3/4"	-	4.8				
	1098/7S	7/8"	22	5.7				
	1099/9S	1.1/8"	-					
	1078/9S	1.1/8"	-	10	45	-35	+105	1
	1079/11S	1.3/8"	35					
	1098/9S	1.1/8"	-	10	45	-35	+110	1
	1099/11S	1.3/8"	35					
	1078/11S	1.3/8"	35	16				
	1079/13S	1.5/8"	-					
	1079/M42S	-	42					

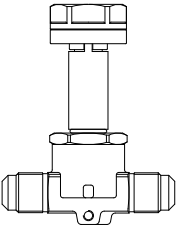
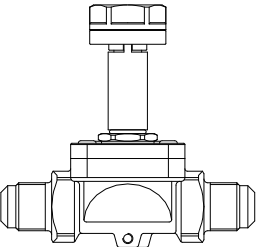
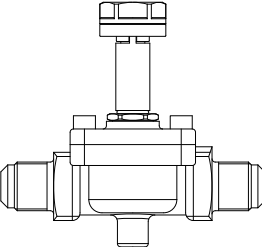
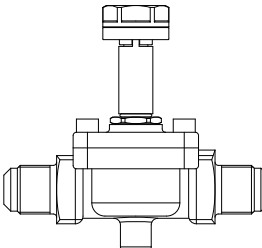
**VALVOLE SOLENOIDE N.C. ATTACCHI ODS CON BOBINA 220/230 VAC (A6), 240 VAC (A7)**  
**N.C. SOLENOID VALVES ODS CONNECTIONS WITH COILS 220/230 VAC (A6), 240 VAC (A7)**  
**VANNES ELECTROMAGNETIQUES N.F. ODS RACCORDS AVEC BOBINE 220/230 VAC (A6), 240 VAC (A7)**  
**N.G. MAGNETVENTILE ODS ANSCHLÜSSE MIT SPULE 220/230 VAC (A6), 240 VAC (A7)**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Attacchi ODS Ø Connections ODS Ø Raccords ODS Ø Anschlüsse ODS Ø		Kv [m³/h]	PS [bar]	TS [°C]		Confezione N° pezzi Package Pcs. Emballage Verpackung
		[in.]	[mm]			Min	Max	
	1028/2A6	1/4"	-	0.15	45	-35	+105	40
	1028/2A7							
	1028/2A6.E	3/8"	-	0.23				
	1028/3A6							
	1028/3A7							
	1028/M10A6	-	10					
	1028/M10A7							
	1068/3A6	3/8"	-	0.8	45	-35	+105	40
	1068/3A7							
	1068/M10A6	-	10					
	1068/M10A7							
	1068/M12A6	-	12					
	1068/M12A7							
	1068/4A6	1/2"	-					
	1068/4A7							
	1078/M12A6	-	12	2.2	45	-35	+105	17
	1078/M12A7							
	1078/4A6	1/2"	-					
	1078/4A7							
	1078/5A6	5/8"	16	2.61				
	1078/5A7							
	1079/7A6	7/8"	22					
	1079/7A7							
	1058/5A6	5/8"	16	3.8	45	-35	+110	1
	1058/5A7							
	1058/6A6	3/4"	-	4.8				
	1058/6A7							
	1058/7A6	7/8"	22	5.7				
	1058/7A7							
	1059/9A6	1.1/8"	-					
	1059/9A7							
	1098/5A6	5/8"	16	3.8	45	-35	+105	1
	1098/5A7							
	1098/6A6	3/4"	-	4.8				
	1098/6A7							
	1098/7A6	7/8"	22	5.7				
	1098/7A7							
	1099/9A6	1.1/8"	-					
	1099/9A7							
	1078/9A6	1.1/8"	-	10	45	-35	+105	1
	1078/9A7							
	1079/11A6	1.3/8"	35					
	1079/11A7							

**VALVOLE SOLENOIDE N.C. ATTACCHI ODS CON BOBINA 220/230 VAC (A6), 240 VAC (A7)**  
**N.C. SOLENOID VALVES ODS CONNECTIONS WITH COILS 220/230 VAC (A6), 240 VAC (A7)**  
**VANNES ELECTROMAGNETIQUES N.F. ODS RACCORDS AVEC BOBINE 220/230 VAC (A6), 240 VAC (A7)**  
**N.G. MAGNETVENTILE ODS ANSCHLÜSSE MIT SPULE 220/230 VAC (A6), 240 VAC (A7)**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Attacchi ODS Ø Connections ODS Ø Raccords ODS Ø Anschlüsse ODS Ø		Kv [m³/h]	PS [bar]	TS [°C]		Confezione N° pezzi Package Pcs. Emballage Verpackung
		[in.]	[mm]			Min	Max	
	1098/9A6	1.1/8"	-	10	45	-35	+110	1
	1098/9A7							
	1099/11A6	1.3/8"	35	16				
	1099/11A7							
	1078/11A6	1.3/8"	35	16				
	1078/11A7							
	1079/13A6	1.5/8"	-	16				
	1079/13A7							
	1079/M42A6	-	42	16				
	1079/M42A7							

**VALVOLE SOLENOIDE N.A. ATTACCHI SAE FLARE SENZA BOBINA**  
**N.O. SOLENOID VALVES SAE FLARE CONNECTIONS WITHOUT COILS**  
**VANNES ELECTROMAGNETIQUES N.O. SAE FLARE RACCORDS SANS BOBINE**  
**N.O. MAGNETVENTILE SAE FLARE ANSCHLÜSSE OHNE SPULE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Attacchi SAE Flare Connections SAE Flare Raccords SAE Flare Anschlüsse SAE Flare	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
					Min	Max	
	1164/3S	3/8"	0.8	32	-35	+105	45
	1170/4S	1/2"	2.2	32	-35	+105	24
	1170/5S	5/8"	2.61				
	1150/5S	5/8"	3.8	32	-35	+110	1
	1150/6S	3/4"	4.8				
	1190/5S	5/8"	3.8	32	-35	+105	1
	1190/6S	3/4"	4.8				

**Note:**

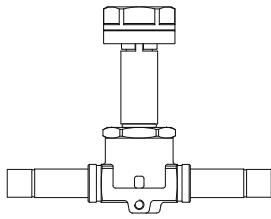
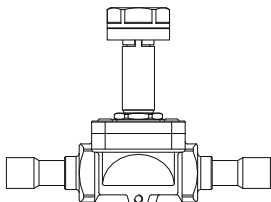
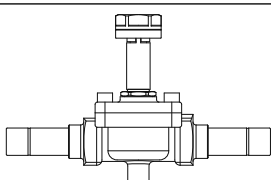
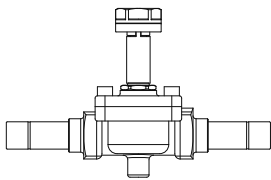
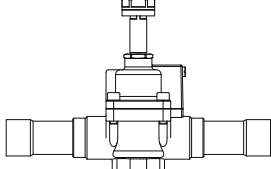
(1) Le valvole NA sono state progettate per il funzionamento con bobine in corrente continua.  
 Per applicazioni con alimentazione a 220/230 V AC utilizzare la bobina 9120/RD6 con  
 il connettore 9150/R45

(1) The N.O. valves have been designed to work only with direct current coil.  
 To use them with an alternate current supply it's necessary to mate the N.O. valve with the  
 9120/RD6 coil and the connector 9150/R45

(1) Les vannes N.O. ont été conçus pour le fonctionnement avec des bobines en courant  
 continu uniquement. Pour les applications avec alimentation en courant alternatif, il faut  
 accoupler la vanne N.O. avec la bobine 9120/RD6 et le connecteur 9150/R45.

(1) Die N.O. Ventile sind ausschließlich für den betrieb mit gleichstromspulen vorgesehen.  
 Bei verwendung mit wechselstromspeisung ist das N.O. Ventile mit spule 9120/RD6 und  
 verbinder 9150/R45

**VALVOLE SOLENOIDE N.A. ATTACCHI ODS SENZA BOBINA**  
**N.O. SOLENOID VALVES ODS CONNECTIONS WITHOUT COILS**  
**VANNES ELECTROMAGNETIQUES N.O. ODS RACCORDS SANS BOBINE**  
**N.O. MAGNETVENTILE ODS ANSCHLÜSSE OHNE SPULE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Attacchi ODS Ø Connections ODS Ø Raccords ODS Ø Anschlüsse ODS Ø		Kv [m³/h]	PS [bar]	TS [°C]		Confezione N° pezzi Package Pcs. Emballage Verpackung
		[in.]	[mm]			Min	Max	
	1168/3S	3/8"	-	0.8	32	-35	+105	24
	1168/M10S	-	10					
	1178/M12S	-	12	2.2	32	-35	+105	14
	1178/4S	1/2"	-	2.61				17
	1178/5S	5/8"	16					
	1158/5S	5/8"	16	3.8	32	-35	+110	1
	1158/6S	3/4"	-	4.8				
	1158/7S	7/8"	22	5.7				
	1198/5S	5/8"	16	3.8	32	-35	+105	1
	1198/6S	3/4"	-	4.8				
	1198/7S	7/8"	22	5.7				
	1178/9S	1.1/8"	-	10				
	1198/9S	1.1/8"	-	10	32	-35	+110	1
	1178/11S	1.3/8"	35	16				

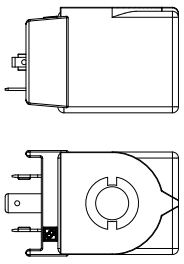
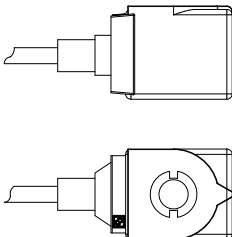
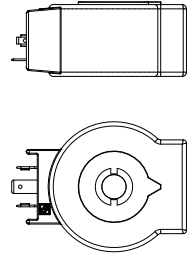
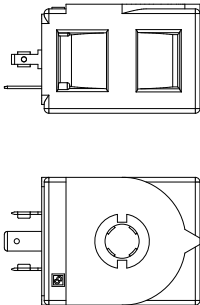
**Note:**

(1) Le valvole NA sono state progettate per il funzionamento con bobine in corrente continua.  
 Per applicazioni con alimentazione a 220/230 V AC utilizzare la bobina 9120/RD6 con  
 il connettore 9150/R45

(1) The N.O. valves have been designed to work only with direct current coil.  
 To use them with an alternate current supply it's necessary to mate the N.O. valve with the  
 9120/RD6 coil and the connector 9150/R45

(1) Les vannes N.O. ont été conçus pour le fonctionnement avec des bobines en courant  
 continu uniquement. Pour les applications avec alimentation en courant alternatif, il faut  
 accoupler la vanne N.O. avec la bobine 9120/RD6 et le connecteur 9150/R45.

(1) Die N.O. Ventile sind ausschließlich für den betrieb mit gleichstromspulen vorgesehen.  
 Bei verwendung mit wechselstromspeisung ist das N.O. Ventile mit spule 9120/RD6 und  
 verbinder 9150/R45

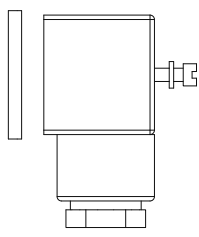
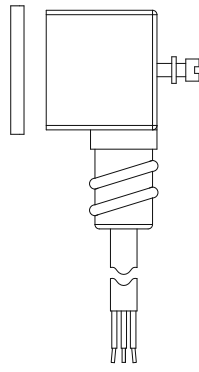
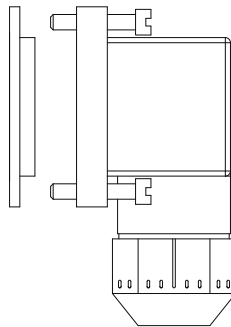
Disegno Drawing Dessin Zeichnung	Tipo Bobina Coil Type Type bobine Spulentyp	N° Catalogo Part number N° Catalogue Katalog Nr	Tensione [V] Voltage [V] Tension [V] Spannung [V]	Frequenza [Hz] Frequency [Hz] Fréquence [Hz] Frequenz [Hz]	Potenza [kW] Power [kW] Puissance [kW] Leistung [kW]	Confezione n° pezzi Package pcs Emballage Verpackung	
	HM2	9100/RA2	24	50/60	8	90	
		9100/RA4	110				
		9100/RA6	220/230				
		9100/RA7	240				
		9100/RA8	380				
	HM2 UL (1)	9105/RA2	24	60	8	90	
		9105/RA4	110/120				
		9105/RA6	220/230				
		9105/RA7	240				
		CM2 (2)	9110/RA2	24	50/60	8	10
9110/RA4			110				
9110/RA6			220/230				
9110/RA7			240				
	HM3	9120/RA6	220/230	50/60	12	90	
		9120/RD1	12 D.C.		-		20
		9120/RD2	24 D.C.				
		9120/RD3	27 D.C.				
		9120/RD4	48 D.C.				
		9120/RD6 (3)	220 RAC				
	HM4	9160/RA2	24	50/60	8	90	
		9160/RA4	110				
		9160/RA6	220/230				
		9160/RA7	240				

**Note:**

- (1) Recognized UL
- (2) Lunghezza cavo 1 mm
- (2) Cable length 1 mm
- (2) Longueur du câble 1 mm
- (2) Kabellänge 1 mm
- (3) Utilizzare esclusivamente con connettore raddrizzatore 9150/R45
- (3) Use only with 9150/R45 connector / rectifier
- (3) Utiliser exclusivement en association avec le connecteur/redresseur 9150/R45
- (3) Bitte nur mit verbinder/gleichrichter 9150/R45 benutzen



**CONNETTORI  
CONNECTORS  
CONNECTEURS  
STECKER**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Grado di protezione Degree of protection Degrè de protection Schutz - klasse	Lunghezza cavo Cable lenght Longueur du câble Kabellänge [m]	Confezione n° pezzi Package pcs Emballage Verpackung
	9150/R02	IP 65	-	1
	9150/R45 (1)			
	9900/X66	IP 65	1	25
	9900/X84		1.5	1
	9900/X73		2	25
	9900/X55		3	100
	9900/X54		5	1
	9155/R01	IP 65 / IP 68	-	1
	9155/R02		1	5

**Note:**

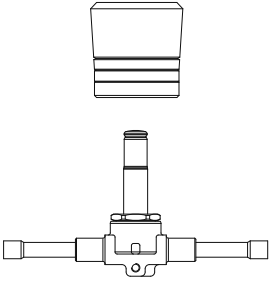
(1) Connettore/Raddrizzatore: tensione d'alimentazione 220/230V AC

(1) Connector/Rectifier: supply voltage 220/230V AC

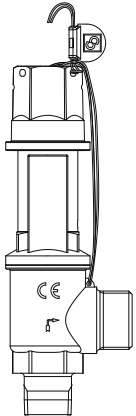
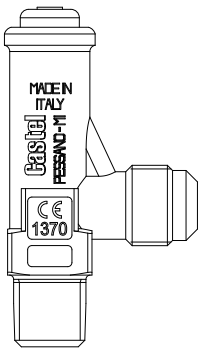
(1) Connecteur/Redresseur: tension d'alimentation 220/230V AC

(1) Verbinder/Gleichrichter: Speisespannung 220/230V AC

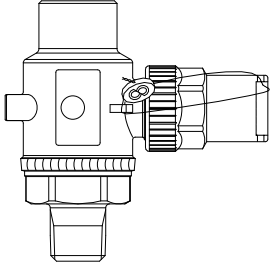
**MAGNETE PERMANENTE  
PERMANENT MAGNET  
OUTIL MAGNETIQUE  
MAGNETISCHES GERÄT**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Confezione n° pezzi Package pcs. Emballage Verpackung
	9900/X91	1

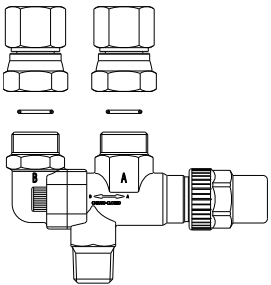
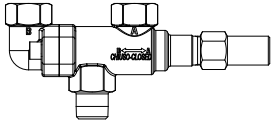
**VALVOLE DI SICUREZZA  
SAFETY VALVES  
SOUPAPES DE SURETE  
SICHERHEITSENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		Sezione orificio Orifice section Section orifice Öffnungs- querschnitt [mm²]	Coefficiente d'efflusso Discharge coefficient Coefficient d' écoulement Ausströmungsfaktor Kd	Campo taratura Set pressure range Champ de tarage Einstellbereich [bar]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		Eingang	Ausgang					Min	Max	
	3030/88C	1" NPT	1.1/4" G	298	0.83	8 → 50	55	-50	+150	7
	3030/66C	3/4" NPT	3/4" G	113	0.9					17
	3030/44C	1/2" NPT	3/4" G	113	0.9					17
	3060/46C	1/2" NPT	3/4" G	78.5	0.93	9 → 50	55	-50	+150	24
	3060/36C	3/8" NPT	3/4" G	78.5	0.92					24
	3060/45C	1/2" NPT	5/8" SAE	70.9	0.45					45
	3060/34C	3/8" NPT	1/2" SAE	38.5	0.69					45
	3060/33C	3/8" NPT	3/8" SAE	38.5	0.63					45
	3060/24C	1/4" NPT	1/2" SAE	38.5	0.69					45
	3060/23C	1/4" NPT	3/8" SAE	38.5	0.63					45

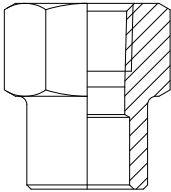
**RUBINETTI DI INTERCETTAZIONE A SFERA**  
**BALL SHUT OFF VALVES**  
**VANNE D'INTERCEPTION A BOISSEAU SPHERIQUE**  
**KUGELABSPERRHAHN**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		NPT			Min	Max	
	3063/22	1/4"	2.5	55	-55	+150	40
	3063/44	1/2"	5				40
	3033/44	1/2"	10				24
	3033/88	1"	20				14

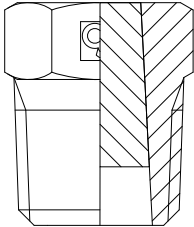
**RUBINETTI DI SCAMBIO**  
**CHANGEOVER VALVES**  
**VANNE D'ECHANGE**  
**WECHSELHAHN**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Adatto per valvola Designed for valve Adaptée pour vanne Passed für ventil	Attacchi Connections Raccords Anschlüsse		Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			Ingresso Inlet Entrée Eingang	Uscite Outlets Sorties Ausgänge			Min	Max	
	3032/33	3060/33C 3060/34C 3060/36C	3/8" NPT	3/8" NPT	2.5	55	-55	+150	14
	3032/44	3060/45C 3060/46C	1/2" NPT	1/2" NPT	3.3				14
	3032/64	3030/44C	3/4" NPT	1/2" NPT	9	55	-55	+150	15
	3032/66	3060/66C	3/4" NPT	3/4" NPT	9				15
	3032/88	3030/88C	1" NPT	1" NPT	14.5				1
	3032/108		1.1/4" NPT	1" NPT	20				1

**RACCORDI  
UNIONS  
RACCORDS  
ANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
		NPT	ODS Ø [mm]		
	3035/2	1/4"	12	55	25
	3035/3	3/8"	15		25
	3035/4	1/2"	20		10
	3035/6	3/4"	28		10
	3035/8	1"	36		10
	3035/10	1.1/4"	42		10

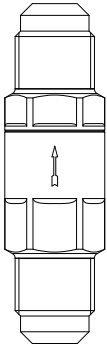
**TAPPI FUSIBILI  
FUSIBLE PLUGS  
BOUCHONS FUSIBLES  
SCHMELZVERSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Attacchi NPT Connections NPT Raccords NPT Anschlüsse NPT	Sezione orifizio Flow section Section Orifice Querschnitt Öffnung [mm²]	Kd	PS [bar]	Temperatura di fusione Melting point Température de fusion Schmelztemperatur [°C]	Confezione n° pezzi Package pcs Emballage Verpackung
	3080/1C	1/8"	18.8	0.91	42	79	10
	3080/2C	1/4"	25.5		42	79	
	3080/3C	3/8"	56.7		42	79	
	3080/4C	1/2"	67.9		42	79	
	3082/1C	1/8"	18.8		30	138	
	3082/2C	1/4"	25.5		30	138	
	3082/3C	3/8"	56.7		30	138	
	3082/4C	1/2"	67.9		30	138	

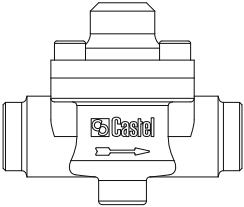
**VALVOLE DI RITEGNO**  
**CHECK VALVES**  
**CLAPETS ANTI-RETOUR**  
**RÜCKSCHLAGVENTILE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog nr	Attacchi Connections Raccords Anschlüsse				Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
		SAE Flare	ODS		ODM			Min	Max		
			Ø [in.]	Ø [mm]	Ø [in.]						Ø [mm]

IN LINEA CON ATTACCHI SAE FLARE / STRAIGHT WITH SAE FLARE CONNECTIONS / CONNEXIONS DROITES SAE FLARE / DURCHFLUSS VERBINDUNG SAE BÖRDEL

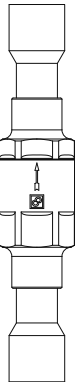
	3112/2	1/4"					0.5	45	-40	+105	90
	3112/3	3/8"					1.5				90
	3112/4	1/2"	-	-	-	-	1.8				90
	3112/5	5/8"					3.3				24
	3112/6	3/4"					5				24

IN LINEA CON ATTACCHI ODS D'OTTONE / STRAIGHT WITH BRASS ODS CONNECTIONS / CONNEXIONS DROITES ODS LAITON / DURCHFLUSS VERBINDUNG ODS MESSING

	3122/M22		-	22	-	28	6.6	45	-35	+160	14
	3122/7		7/8"	-	1.1/8"	-	6.6				14
	3122/M28		-	28	1.3/8"	35	8.8				14
	3122/9		1.1/8"	-	1.3/8"	35	8.8				14
	3122/11		1.3/8"	35	1.5/8"	-	15.2				1
	3122/13		1.5/8"	-	2"	-	25				1
	3122/M42		-	42	2"	-	25				1
	3122/17		2.1/8"	54	-	-	40				1

Molla rinforzata a richiesta / reinforced spring on request / ressort renforcé sur demande / Verstaerkte Feder auf Anfrage

IN LINEA CON ATTACCHI ODS DI RAME / STRAIGHT WITH COPPER ODS CONNECTIONS / CONNEXIONS DROITES ODS CUIVRE / DURCHFLUSS VERBINDUNG ODS KUPFER

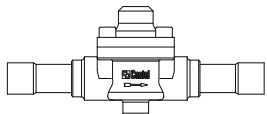
	3132/2		1/4"	-			0.5	45	-40	+105	42
	3132/3		3/8"	-			1.5				
	3132/M10		-	10			1.5				
	3132/M12		-	12			1.8				
	3132/4		1/2"	-			1.8				
	3132/5		5/8"	16			3.3				
	3132/M18		-	18	-	-	5				
	3132/6		3/4"	-			5				
	3132/7		7/8"	22			5				
	3133/M10		-	10			1.4				
	3133/M12		-	12			1.7				
	3133/5		5/8"	16			3.3				
	3133/7		7/8"	22			5				

Serie 3133 con molla rinforzata / Type 3133 with reinforced spring / Série 3133 avec ressort renforcé / Serie 3133 mit verstaerkter Feder

**VALVOLE DI RITEGNO**  
**CHECK VALVES**  
**CLAPETS ANTI-RETOUR**  
**RÜCKSCHLAGVENTILE**

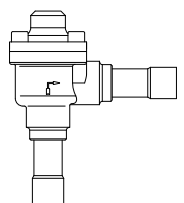
Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog nr	Attacchi Connections Raccords Anschlüsse				Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
		SAE Flare	ODS		ODM			Min	Max		
			Ø [in.]	Ø [mm]	Ø [in.]						Ø [mm]

IN LINEA CON ATTACCHI ODS DI RAME / STRAIGHT WITH COPPER ODS CONNECTIONS / CONNEXIONS DROITES ODS CUIVRE / DURCHFLOSS VERBINDUNG ODS KUPFER

	3142/7	-	7/8"	22	-	-	6.6	45	-35	+160	15
	3142/M28	-	-	28	-	-	8.8				15
	3142/9	-	1.1/8"	-	-	-	8.8				15
	3142/11	-	1.3/8"	35	-	-	15.2				10
	3142/13	-	1.5/8"	-	-	-	25				1
	3142/M42	-	-	42	-	-	25				1
	3142/17	-	2.1/8"	54	-	-	40				1
	3142/21	-	2.5/8"	-	-	-	40				1
	3142/25	-	3.1/8"	-	-	-	40				1

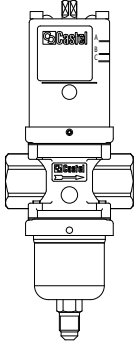
Molla rinforzata a richiesta / reinforced spring on request / ressort renforcé sur demande / Verstaerkte Feder auf Anfrage

A SQUADRA CON ATTACCHI ODS DI RAME / RIGHT ANGLE WITH COPPER ODS CONNECTIONS / ANGLE DROIT AVEC CONNEXION CUIVRE ODS / WINKELANSCHLUSS MIT LÖTANSCHLUSS IN KUPFERAUSFÜHRUNG

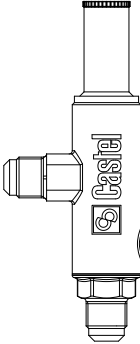
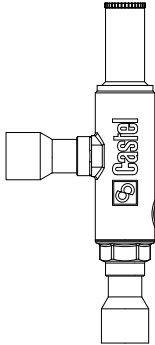
	3182/7	-	7/8"	22	-	-	8.5	45	-35	+160	10
	3182/M28	-	-	28	-	-	9.5				10
	3182/9	-	1.1/8"	-	-	-	9.5				10
	3182/11	-	1.3/8"	35	-	-	19				1
	3182/13	-	1.5/8"	-	-	-	37				1
	3182/M42	-	-	42	-	-	37				1
	3182/17	-	2.1/8"	54	-	-	45.4				1

Molla rinforzata a richiesta / reinforced spring on request / ressort renforcé sur demande / Verstaerkte Feder auf Anfrage

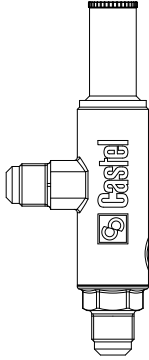
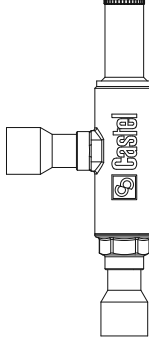
**VALVOLE PRESSOSTATICHE PER ACQUA**  
**CONDENSING PRESSURE REGULATOR WATER VALVES**  
**VANNES PRESSOSTATIQUES POUR EAU**  
**DRUCKGESTEUERTE WASSERVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr.	Attacchi UNI Connections Raccords UNI Anschlüsse UNI ISO 228/1	Campo taratura Working range Champ tarage Einstellbereich [bar]	Pressione massima acqua Max water pressure Pression maximum eau Max wasserdruck [bar]	Temperatura massima acqua Max water temperature Température maximum eau Max wasser temperatur [°C]	Pressione lavoro refrig. Max Refrigerant max working pressure Pression travail réfrigérant max Max Kältemittel betriebsdruck [bar]	Kv [m³/h]	Confezione n° pezzi Package pcs Emballage Verpackung
	3210/03	G 3/8"	5 ÷ 18	10	80	20	2	17
	3210/04	G 1/2"					3	
	3210/06	G 3/4"					4.7	

**REGOLATORI DI CAPACITA'**  
**HOT GAS BYPASS CAPACITY REGULATORS**  
**RÉGULATEURS DE CAPACITÉ**  
**LEISTUNGSREGLERS**

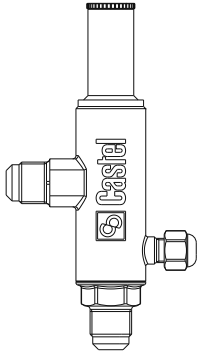
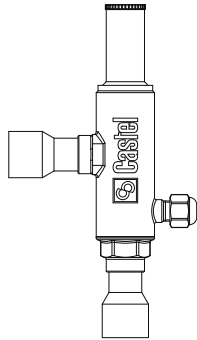
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse			Campo di regolazione Regulation range Plage de régulation Regelbereich [bar]	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	ODS [in.]	ODS [mm]				Min	Max	
	3310/4	1/2"	-	-	0,2 - 6	0.7	28	- 40	+ 105	17
	3310/5	5/8"	-	-		1.26				
	3310/M12S	-	-	12	0,2 - 6	0.7	28	- 40	+ 105	17
	3310/4S	-	1/2"	-		0.7				
	3310/5S	-	5/8"	16		1.26				
	3310/7S	-	7/8"	22		1.84				

**REGOLATORI D'AVVIAMENTO**  
**CRANKCASE PRESSURE REGULATORS**  
**RÉGULATEURS DE PRESSION DE DÉMARRAGE**  
**STARTREGLER**

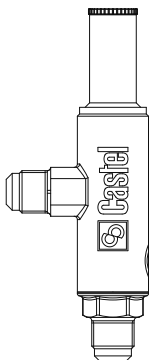
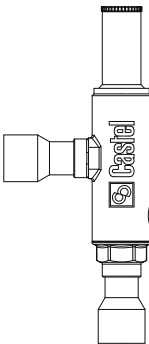
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse			Campo di regolazione Regulation range Plage de régulation Regelbereich [bar]	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	ODS [in.]	ODS [mm]				Min	Max	
	3320/4	1/2"	-	-	0,2 - 6	3.3	18	- 40	+ 105	17
	3320/5	5/8"	-	-						
	3320/M12S	-	-	12	0,2 - 6	3.3	18	- 40	+ 105	17
	3320/4S	-	1/2"	-						
	3320/5S	-	5/8"	16						
	3320/7S	-	7/8"	22						



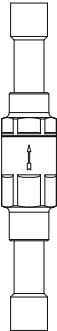
**REGOLATORI DELLA PRESSIONE D'EVAPORAZIONE**  
**EVAPORATING PRESSURE REGULATORS**  
**RÉGULATEURS DE PRESSION D'ÉVAPORATION**  
**VERDAMPFUNGSDRUCKREGLERS**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse			Campo di regolazione Regulation range Plage de régulation Regelbereich	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	ODS [in.]	ODS [mm]				Min	Max	
	3330/4	1/2"	-	-	0 - 5,5	2.7	18	- 40	+ 105	17
	3330/5	5/8"	-	-						
	3330/M12S	-	-	12	0 - 5,5	2.7	18	- 40	+ 105	17
	3330/4S	-	1/2"	-						
	3330/5S	-	5/8"	16						
	3330/7S	-	7/8"	22						

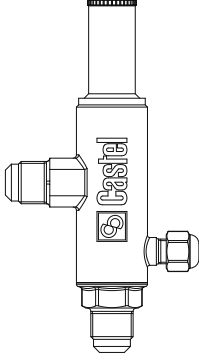
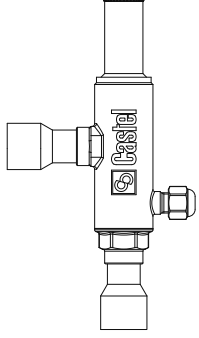
**REGOLATORI DELLA PRESSIONE DI CONDENSAZIONE**  
**CONDENSING PRESSURE REGULATORS**  
**RÉGULATEURS DE PRESSION DE CONDENSATION**  
**VERFLÜSSIGUNGSDRUCKREGLERS**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse			Campo di regolazione Regulation range] Plage de régulation] Regelbereich [bar]	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	ODS [in.]	ODS [mm]				Min	Max	
	3340/4	1/2"	-	-	5 - 17,5	2.7	28	- 40	+ 105	17
	3340/5	5/8"	-	-						
	3340/M12S	-	-	12	5 - 17,5	2.7	28	- 40	+ 105	17
	3340/4S	-	1/2"	-						
	3340/5S	-	5/8"	16						
	3340/7S	-	7/8"	22						

VALVOLE DIFFERENZIALE  
DIFFERENTIAL VALVES  
VANNES À PRESSION DIFFÉRENTIELLE  
DIFFERENZDRUCKVENTILE

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse			Pressione differenziale d'apertura [bar] Opening differential pressure [bar] Pression différentielle d'ouverture [bar] Öffnungsdifferenzdruck [bar]	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	ODS [in.]	ODS [mm]				Min	Max	
	3136/M12	-	-	12	1,4 - 3	1.5	45	- 40	+ 105	17
	3136/4	-	1/2"	-						

**REGOLATORI DI PRESSIONE DEL RICEVITORE**  
**RECEIVER PRESSURE REGULATORS**  
**RÉGULATEURS DE PRESSION DE BOUTEILLE**  
**SAMMLERDRUCKREGLERS**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr.	Attacchi Connections Raccords Anschlüsse			Campo di regolazione Regulation range Plage de régulation Regelbereich [bar]	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	ODS [in.]	ODS [mm]				Min	Max	
	3350/4	1/2"	-	-	3 - 20	1.8	28	- 40	+ 105	17
	3350/5	5/8"	-	-						
	3350/M12S	-	-	12	3 - 20	1.8	28	- 40	+ 105	17
	3350/4S	-	1/2"	-						
	3350/5S	-	5/8"	16						

**INDICATORI DI LIQUIDO**  
**LIQUID INDICATORS**  
**VOYANTS DE LIQUIDE**  
**FLUSSIGKEITSSCHAUGLAS**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse			PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	Ø ODS [in.]	Ø ODS [mm]		Min	Max	

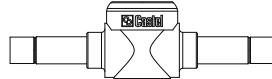
ATTACCHI SAE FLARE MASCHIO - MASCHIO  
 SAE FLARE MALE - MALE CONNECTIONS  
 RACCORDS SAE FLARE MÂLE - MÂLE  
 BÖRDELANSCHLÜSSE AUSSEN - AUSSEN

	3810/22	1/4"	-	-	45	-30	+110	90
	3810/33	3/8"						
	3810/44	1/2"						
	3810/55	5/8"						
	3810/66	3/4"						

ATTACCHI SAE FLARE MASCHIO - FEMMINA  
 SAE FLARE MALE - FEMALE CONNECTIONS  
 RACCORDS SAE FLARE MÂLE - FEMELLE  
 BÖRDELANSCHLÜSSE INNEN - AUSSEN

	3850/22	1/4"	-	-	45	-30	+110	90
	3850/33	3/8"						90
	3850/44	1/2"						90
	3850/55	5/8"						90
	3850/66	3/4"						24

ATTACCHI DI RAME A SILDARE  
 COPPER BRAZE CONNECTIONS  
 RACCORDS A SOUDER EN CUIVRE  
 KUPFER LÖTANSCHLÜSSE

	3840/2	-	1/4"	-	45	-30	+110	42
	3840/3		3/8"	-				42
	3840/M10		-	10				42
	3840/M12		-	12				42
	3840/4		1/2"	-				42
	3840/5		5/8"	16				42
	3840/M18		-	18				42
	3840/6		3/4"	-				42
	3840/7		7/8"	22				42
	3840/9		1.1/8"	-				11

**INDICATORI DI UMIDITA'**  
**MOISTURE INDICATORS**  
**VOYANT LIQUIDE AVEC INDICATEURS D' HUMIDITE**  
**FLUESSIGKEITSINDIKATOREN**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse							PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
		SAE Flare	ODS		ODM		Für rohr			Min	Max		
			Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]					Hole Ø [mm]



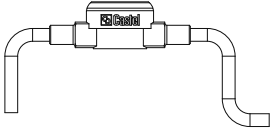
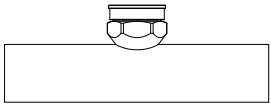
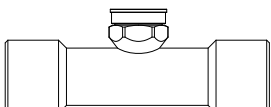
ATTACCHI SAE FLARE MASCHIO - MASCHIO  
 SAE FLARE MALE - MALE CONNECTIONS  
 RACCORDS SAE FLARE MÂLE - MÂLE  
 BÖRDELANSCHLÜSSE AUSSEN - AUSSEN

	3910/22	1/4"								45	-30	+110	90
	3910/33	3/8"											
	3910/44	1/2"	-	-	-	-	-	-					
	3910/55	5/8"											
	3910/66	3/4"											

ATTACCHI SAE FLARE MASCHIO - FEMMINA  
 SAE FLARE MALE - FEMALE CONNECTIONS  
 RACCORDS SAE FLARE MÂLE - FEMELLE  
 BÖRDELANSCHLÜSSE INNEN - AUSSEN

	3950/22	1/4"								45	-30	+110	90
	3950/33	3/8"							90				
	3950/44	1/2"	-	-	-	-	-	-	90				
	3950/55	5/8"							90				
	3950/66	3/4"							24				

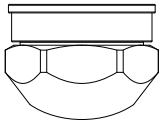
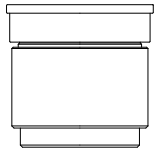
ATTACCHI DI RAME A SALDARE  
 COPPER BRAZE CONNECTIONS  
 RACCORDS A SOUDER EN CUIVRE  
 KUPFER LÖTANSCHLÜSSE

	3940/2		1/4"	-						45	-30	+110	42
	3940/3		3/8"	-					42				
	3940/M10		-	10					42				
	3940/M12		-	12					42				
	3940/4		1/2"	-	-	-	-	-	42				
	3940/5		5/8"	16					42				
	3940/M18		-	18					42				
	3940/6		3/4"	-					42				
	3940/7		7/8"	22					42				
	3940/9		1.1/8"	-					11				
	3940/X01	-	-	-	-	6	-	-	-	45	-30	+110	120
	3940/X02	-	-	-	-	6	-	-	-	45	-30	+110	48
	3770/M28					-	28			35	-30	+110	17
	3770/11					1.3/8"	35						
	3770/13					1.5/8"	-						
	3770/M42					-	42						
	3771/11		1.3/8"	35						35	-30	+110	17
	3771/M42		-	42									
	3771/17		2.1/8"	-									

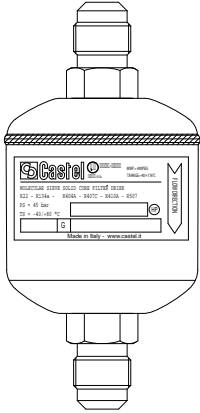
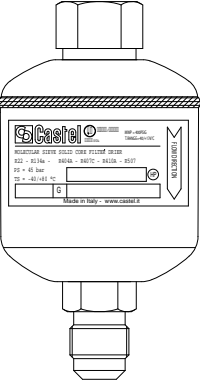
**INDICATORI DI UMIDITA'**  
**MOISTURE INDICATORS**  
**VOYANT LIQUIDE AVEC INDICATEURS D' HUMIDITE**  
**FLUESSIGKEITSINDIKATOREN**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse							PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
		SAE Flare	ODS		ODM		Für rohr			Min	Max		
			Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]					Hole Ø [mm]

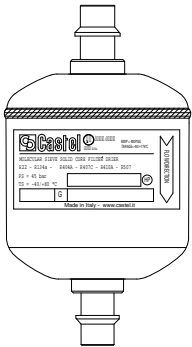
A SELLA  
 SADDLE TYPE  
 EMBASE À BRASER  
 SATTEL TYP

	3780/5						5/8"	16					
	3780/M18						-	18					
	3780/7	-	-	-	-	-	7/8"	22	-	35	-30	+110	255
	3780/9						1.1/8"	28					
	3780/11						1.3/8"	35					
	3781/M28	-	-	-	-	-	-	-	28	35	-30	+110	255

**FILTRI DISIDRATORI A CARTUCCIA SOLIDA 100% SETACCIO MOLECOLARE**  
**ATTACCHI SAE FLARE**  
**SOLID CORE FILTER DRIERS 100% MOLECULAR SIEVES**  
**SAE FLARE CONNECTIONS**  
**FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE 100% TAMIS MOLECLAIR**  
**RACCORDS SAE FLARE**  
**FILTERTROCKNER MIT 100% MOLEKULARSIEB**  
**BÖRDELANSCHLÜSSE**

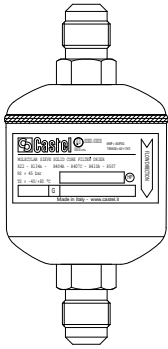
Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi SAE Flare Connections SAE Flare Raccords SAE Flare Anschlüsse SAE Flare	Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm <sup>3</sup> ]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
						Min	Max	
	4303/2	032	1/4"	50	45	-40	+80	45
	4303/3	033	3/8"	50				45
	4305/2	052	1/4"	80				34
	4305/3	053	3/8"	80				34
	4308/2	082	1/4"	130				24
	4308/3	083	3/8"	130				24
	4308/4	084	1/2"	130				24
	4316/2	162	1/4"	250				28
	4316/3	163	3/8"	250				28
	4316/4	164	1/2"	250				28
	4316/5	165	5/8"	250				28
	4330/3	303	3/8"	500				12
	4330/4	304	1/2"	500				12
	4330/5	305	5/8"	500				12
	4332/4	304	1/2"	500				15
	4332/5	305	5/8"	500				15
	4341/4	414	1/2"	670				14
4341/5	415	5/8"	670	14				
4341/6	416	3/4"	670	14				
	4303/2F	-	1/4"	50	45	-40	+80	45
	4305/2F		1/4"	80				36
	4308/2F		1/4"	130				24
	4308/3F		3/8"	130				24
	4316/3F		3/8"	250				28

**FILTRI DISIDRATATORI A CARTUCCIA SOLIDA 100% SETACCIO MOLECOLARE**  
**ATTACCHI A SALDARE**  
**SOLID CORE FILTER DRIERS 100% MOLECULAR SIEVES**  
**SOLDER CONNECTIONS**  
**FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE 100% TAMIS MOLECLAIR**  
**RACCORDS A SOUDER**  
**FILTERTROCKNER MIT 100% MOLEKULARSIEB LÖTANSCHLÜSSE**

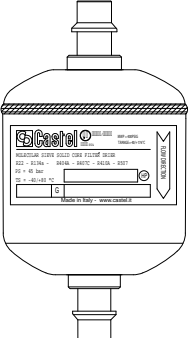
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse				Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm³]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			ODS		ODM				Min	Max	
			[in.]	[mm]	[in.]	[mm]					
	4303/2S	032S	1/4"	-	3/8"	-	50	45	-40	+80	45
	4303/3S	033S	3/8"	-	1/2"	-	50				45
	4305/2S	052S	1/4"	-	3/8"	-	80				34
	4305/3S	053S	3/8"	-	1/2"	-	80				34
	4305/M10S	-	-	10	-	12	80				34
	4308/2S	082S	1/4"	-	3/8"	-	130				24
	4308/3S	083S	3/8"	-	1/2"	-	130				24
	4308/M10S	-	-	10	-	12	130				24
	4308/M12S	-	-	12	-	14	130				24
	4308/4S	084S	1/2"	-	5/8"	16	130				24
	4316/3S	163S	3/8"	-	1/2"	-	250				28
	4316/M10S	-	-	10	-	12	250				28
	4316/M12S	-	-	12	-	14	250				28
	4316/4S	164S	1/2"	-	5/8"	16	250				28
	4316/5S	165S	5/8"	16	3/4"	-	250				28
	4316/7S	167S	7/8"	-	1.1/8"	-	250				28
	4330/3S	303S	3/8"	-	1/2"	-	500				12
	4330/4S	304S	1/2"	-	5/8"	16	500				12
	4330/5S	305S	5/8"	16	3/4"	-	500				12
	4330/7S	307S	7/8"	-	1.1/8"	-	500				12
	4330/9S	309S	1.1/8"	-	1.3/8"	35	500				12
	4332/4S	304S	1/2"	-	5/8"	16	500				15
	4332/5S	305S	5/8"	16	3/4"	-	500				15
	4341/4S	414S	1/2"	-	5/8"	16	670				14
	4341/5S	415S	5/8"	16	3/4"	-	670				14
	4341/6S	416S	3/4"	-	7/8"	-	670				14
	4341/7S	417S	7/8"	-	1.1/8"	-	670				14
	4375/4S	754S	1/2"	-	5/8"	16	1340				1
	4375/5S	755S	5/8"	16	3/4"	-	1340				1
	4375/6S	756S	3/4"	-	7/8"	-	1340				1
4375/7S	757S	7/8"	-	1.1/8"	-	1340	1				
4375/9S	759S	1.1/8"	-	1.3/8"	35	1340	1				



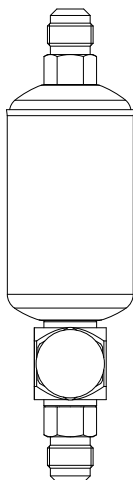
**FILTRI DISIDRATATORI A CARTUCCIA SOLIDA 80% SETACCIO MOLECOLARE, 20% ALLUMINA -  
 ATTACCHI SAE FLARE  
 DEHYDRATOR FILTERS WITH SOLID CORE 80% MOLECULAR SIEVE, 20% ALUMINA  
 SAE FLARE CONNECTIONS  
 FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE 80% TAMIS MOLECLAIRE, 20% ALUMINE  
 RACCORDS SAE FLARE  
 FILTERTROCKNER MIT 80% MOLEKULARSIEB , 20% ALUMINIUMOXID  
 BÖRDELANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi SAE Flare Connections SAE Flare Raccords SAE Flare Anschlüsse SAE Flare	Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm <sup>3</sup> ]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
						Min	Max	
	4203/2	032	1/4"	50	45	-40	+80	45
	4203/3	033	3/8"	50				45
	4205/2	052	1/4"	80				34
	4205/3	053	3/8"	50				34
	4208/2	082	1/4"	130				24
	4208/3	083	3/8"	130				24
	4208/4	084	1/2"	130				24
	4216/2	162	1/4"	250				28
	4216/3	163	3/8"	250				28
	4216/4	164	1/4"	250				28
	4216/5	165	5/8"	250				28
	4230/3	303	3/8"	500				12
	4230/4	304	1/2"	500				12
	4230/5	305	5/8"	500				12
	4232/4	304	1/2"	500				15
	4232/5	305	5/8"	500				15
	4241/5	415		670				14
	4241/6	416	3/4"	670				14

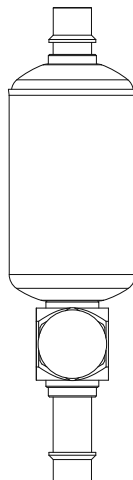
**FILTRI DISIDRATATORI A CARTUCCIA SOLIDA 80% SETACCIO MOLECOLARE, 20% ALLUMINA**  
**ATTACCHI A SALDARE**  
**DEHYDRATOR FILTERS WITH SOLID CORE 80% MOLECULAR SIEVE, 20% ALUMINA**  
**SOLDER CONNECTIONS**  
**FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE 80% TAMIS MOLEULAIRE, 20% ALUMINE**  
**RACCORDS A SOUDER**  
**FILTERTROCKNER MIT 80% MOLEKULARSIEB , 20% ALUMINIUMOXID**  
**LÖTANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse				Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm <sup>3</sup> ]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			ODS		ODM				Min	Max	
			[in.]	[mm]	[in.]	[mm]					
	4203/2S	032S	1/4"	-	3/8"	-	50	45	-40	+80	45
	4205/2S	052S	1/4"	-	3/8"	-	80				34
	4205/3S	053S	3/8"	-	1/2"	-	80				34
	4205/M10S	-	-	10	-	12	80				34
	4208/2S	082S	1/4"	-	3/8"	-	130				24
	4208/3S	083S	3/8"	-	1/2"	-	130				24
	4208/M10S	-	-	10	-	12	130				24
	4208/M12S	-	-	12	-	14	130				24
	4216/3S	163S	3/8"	-	1/2"	-	250				28
	4216/M10S	-	-	10	-	12	250				28
	4216/M12S	-	-	12	-	14	250				28
	4216/4S	164S	1/2"	-	5/8"	16	250				28
	4216/5S	165S	5/8"	16	3/4"	-	250				28
	4230/3S	303S	3/8"	-	1/2"	-	500				12
	4230/4S	304S	1/2"	-	5/8"	16	500				12
	4230/5S	305S	5/8"	16	3/4"	-	500				12
	4232/4S	304S	1/2"	-	5/8"	16	500				15
	4232/5S	305S	5/8"	16	3/4"	-	500				15
	4241/5S	415S	5/8"	16	3/4"	-	670				14
	4241/6S	416S	3/4"	-	7/8"	-	670				14
	4241/7S	417S	7/8"	-	1.1/8"	-	670				14
	4275/4S	754S	1/2"	-	5/8"	16	1340				1
	4275/5S	755S	5/8"	16	3/4"	-	1340				1
	4275/6S	756S	3/4"	-	7/8"	-	1340				1
	4275/7S	757S	7/8"	-	1.1/8"	-	1340				1
	4275/9S	759S	1.1/8"	-	1.3/8"	35	1340				1

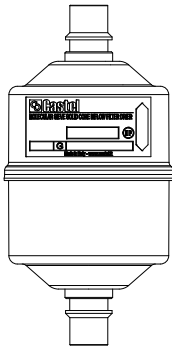
**FILTRI DISIDRATATORI A CARTUCCIA SOLIDA 100% SETACCIO MOLECOLARE, CON INDICATORE D'UMIDITA'**  
**ATTACCHI SAE FLARE**  
**SOLID CORE FILTER DRIERS 100% MOLECULAR SIEVES, WITH MOISTURE INDICATOR**  
**SAE FLARE CONNECTIONS**  
**FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE 100% TAMIS MOLECLAIR, ET INDICATEUR D' HUMIDITE**  
**RACCORDS SAE FLARE**  
**FILTERTROCKNER 100% MOLEKULARSIEB, MIT FLUESSIGKEITSINDIKATOREN**  
**BÖRDELANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi SAE Flare Connections SAE Flare Raccords SAE Flare Anschlüsse SAE Flare	Cubatura nominale Nominal volume] Cubature nominale Nominaler rauminhalt [cm <sup>3</sup> ]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
						Min	Max	
	4108/2	082	1/4"	130	45	-40	+80	24
	4108/3	083	3/8"	130				24
	4108/4	084	1/2"	130				24
	4116/3	163	3/8"	250				14
	4116/4	164	1/2"	250				14
	4116/5	165	5/8"	250				14

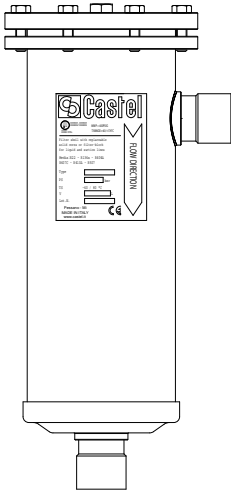
**FILTRI DISIDRATATORI A CARTUCCIA SOLIDA 100% SETACCIO MOLECOLARE, CON INDICATORE D'UMIDITA'**  
**ATTACCHI A SALDARE**  
**SOLID CORE FILTER DRIERS 100% MOLECULAR SIEVES, WITH MOISTURE INDICATOR**  
**SOLDER CONNECTIONS**  
**FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE 100% TAMIS MOLECLAIR, ET INDICATEUR D' HUMIDITE**  
**RACCORDS A SOUDER**  
**FILTERTROCKNER 100% MOLEKULARSIEB, MIT FLUESSIGKEITSINDIKATOREN**  
**LÖTANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse				Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm <sup>3</sup> ]	PS [bar] PS [bar] PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			ODS		ODM				Min	Max	
			[in.]	[mm]	[in.]	[mm]					
	4108/2S	082S	1/4"	-	3/8"	-	130	45	-40	+80	24
	4108/3S	083S	3/8"	-	1/2"	-	130				24
	4108/4S	084S	1/2"	-	5/8"	16	130				24
	4116/3S	163S	3/8"	-	1/2"	-	250				14
	4116/M10S	-	-	10	-	12	250				14
	4116/M12S	-	-	12	-	14	250				14
	4116/4S	164S	1/2"	-	5/8"	16	250				14
	4116/5S	165S	5/8"	16	3/4"	-	250				14

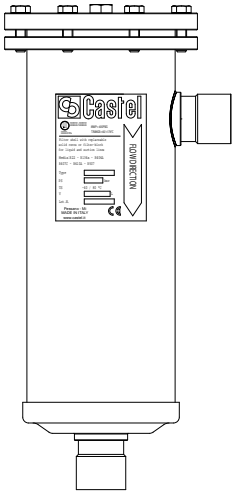
**FILTRI DISIDRATATORI BIFLUSSO A CARTUCCIA SOLIDA 100% SETACCIO MOLECOLARE**  
**ATTACCHI A SALDARE**  
**SOLID CORE BI-FLOW FILTER DRIERS 100% MOLECULAR SIEVES**  
**SOLDER CONNECTIONS**  
**FILTRES DÉSHYDRATEURS BIDIRECTIONNELS AVEC CARTOUCHE SOLIDE 100% TAMIS MOLECULAIRE**  
**RACCORDS A SOUDER**  
**BIFLOW FILTERTROCKNER 100% MOLEKULARSIEB**  
**LÖTANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse				Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm³]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			ODS		ODM				Min	Max	
			[in.]	[mm]	[in.]	[mm]					
	4608/3S	083S	3/8"	-	1/2"	-	45	-40	+80	28	
	4608/4S	084S	1/2"	-	5/8"	16				130	28
	4616/3S	163S	3/8"	-	1/2"	-				250	20
	4616/4S	164S	1/2"	-	5/8"	16				250	20
	4616/5S	165S	5/8"	16	3/4"	-				250	20
	4616/7S	167S	7/8"	-	1.1/8"	-				250	20

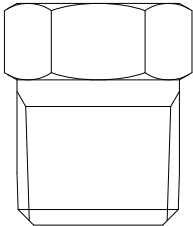
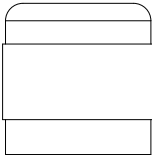

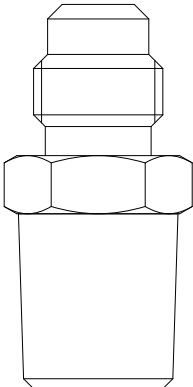
**FILTRI DISIDRATORI A CARTUCCIA SOLIDA RICAMBIABILE**  
**ATTACCHI DI RAME**  
**FILTER DRIERS WITH REPLACEABLE SOLID CORE**  
**COPPER CONNECTIONS**  
**FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE REMPLAÇABLE**  
**RACCORDS EN CUIVRE**  
**FILTERTROCKNER FÜR UNIVERSAL BLOCKEINSATZ**  
**KUPFER-ANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr		Attacchi Connections Raccords Anschlüsse		Tipo cartucce Cores type Type cartouches Patronentyp	N° cartucce N° of cores N° cartouches Patronenanzahl	Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm <sup>3</sup> ]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
	Coperchio filettato Threaded cover Couvercle fileté Schraubkappe	Coperchio cieco Blind cover Couvercle borgne Blindkappe	ODS						Min	Max	
			Ø [in.]	Ø [mm]							
	4411/5A	4411/5B	5/8"	16	4490/A 4490/B 4490/AA 4490/AB	1	800	45	-40	+80	1
	4411/7A	4411/7B	7/8"	22		1	800	45			
	4411/9A	4411/9B	1.1/8"	-		1	800	45			
	4411/11A	4411/11B	1.3/8"	35		1	800	45			
	4411/13A	4411/13B	1.5/8"	-		1	800	45			
	4411/M42A	4411/M42B	-	42		1	800	45			
	4411/17A	4411/17B	2.1/8"	54		1	800	45			
	4411/21A	4411/21B	2.5/8"	-		1	800	45			
	4412/7A	4412/7B	7/8"	22		2	1600	45			
	4412/9A	4412/9B	1.1/8"	-		2	1600	45			
	4412/11A	4412/11B	1.3/8"	35		2	1600	45			
	4412/M42A	4412/M42B	-	42		2	1600	45			
	4412/17A	4412/17B	2.1/8"	54		2	1600	45			
	4413/7A	4413/7B	7/8"	22		3	2400	45			
	4413/9A	4413/9B	1.1/8"	-		3	2400	45			
	4413/11A	4413/11B	1.3/8"	35		3	2400	45			
	4413/13A	4413/13B	1.5/8"	-		3	2400	45			
	4413/M42A	4413/M42B	-	42		3	2400	45			
	4414/11A	4414/11B	1.3/8"	35		4	3200	35			
	4414/13A	4414/13B	1.5/8"	-		4	3200	35			
4414/M42A	4414/M42B	-	42	4	3200	35					
4414/17A	4414/17B	2.1/8"	54	4	3200	35					

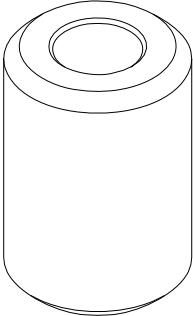
**FILTRI DISIDRATATORI A CARTUCCIA SOLIDA RICAMBIABILE**  
**ATTACCHI D'ACCIAIO**  
**FILTER DRIERS WITH REPLACEABLE SOLID CORE**  
**STEEL CONNECTIONS**  
**FILTRES DÉSHYDRATEURS AVEC CARTOUCHE SOLIDE REMPLAÇABLE**  
**RACCORDS EN ACIER**  
**FILTERTROCKNER FÜR UNIVERSAL BLOCKEINSATZ**  
**STAHL-ANSCHLÜSSE**

Disegno Drawing Dessin Zeichnung	N° Catalogo Coperchio filettato Part number Threaded cover N° Catalogue Couvercle fileté Katalog Nr Schraubkappe	Attacchi Connections Raccords Anschlüsse			Tipo cartucce Cores type Type cartouches Patronentyp	N° cartucce N° of cores N° cartouches Patronenzahl	Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm³]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS		W					Min	Max	
		Ø [in.]	Ø [mm]	Ø [mm]							
	4411/5AF	5/8"	16		4490/A 4490/B 4490/AA 4490/AB	800	45	-40	+80	1	
	4411/7AF	7/8"	22			800	45				
	4411/9AF	1.1/8"	-			800	45				
	4411/11AF	1.3/8"	35			800	45				
	4411/13AF	1.5/8"	-			800	45				
	4411/M42AF	-	42			800	45				
	4411/17AF	2.1/8"	54			800	45				
	4411/21AF	2.5/8"	-			800	45				
	4412/7AF	7/8"	22			1600	45				
	4412/9AF	1.1/8"	-			1600	45				
	4412/11AF	1.3/8"	35			1600	45				
	4412/M42AF	-	42			1600	45				
	4412/17AF	2.1/8"	54			1600	45				
	4413/7AF	7/8"	22			2400	45				
	4413/9AF	1.1/8"	-			2400	45				
	4413/11AF	1.3/8"	35			2400	45				
	4413/13AF	1.5/8"	-			2400	45				
	4413/M42AF	-	42			2400	45				
	4414/11AF	1.3/8"	35			3200	35				
	4414/13AF	1.5/8"	-			3200	35				
	4414/M42AF	-	42			3200	35				
	4414/17AF	2.1/8"	54			3200	35				
	4423/17A	2.1/8"	54	60.3		4491/4 4491/AA	4800				32
	4423/21A	2.5/8"	-	76.1			4800				32
	4423/25A	-	-	88.9			4800				32
	4424/25A	-	-	88.9			6400				32
	4424/33A	-	-	114.3		6400	32				

**ACCESSORI PER FILTRI 44**  
**ACCESSORIES FOR 44 FILTER DRIES**  
**ACCESSOIRES POUR FILTRES 44**  
**ZUBEHÖR FÜR FILTERTROCKNER 44**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Componenti Parts Composant Komponenten	Confezione n° pezzi Package pcs. Emballage Verpackung
	7520/2	Tappo NPT NPT plug Bouchons NPT NPT Verschlüsse	25
  	G9150/R05	Attacco di carica + meccanismo + cappuccio Access fitting + valve core + cap Raccords de charge + mécanismes+ capuchons Schraderventil + Ventileinsatz + Kappen	1

**CARTUCCE PER FILTRI DISIDRATATORI**  
**CARTRIDGES**  
**CARTOUCHE SOLIDE**  
**BLOCKEINSÄTZE**

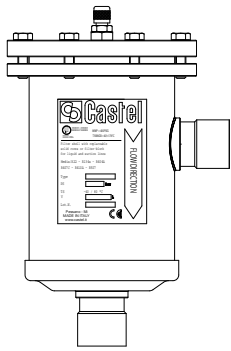
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Carica disidratante Dehydrating charge Charge déshydratant Bindemittel	Cubatura nominale Nominal volume Cubature nominale Nominaler rauminhalt [cm <sup>3</sup> ]	Adatta per filtri Suitable for filter Adapté pour filtre Passend für filter	Confezione n° pezzi Package pcs Emballage Verpackung
	4490/A	100 % Setaccio molecolare	800	4411/A-/B-/AF 4412/A-/B-/AF 4413/A-/B-/AF 4414/A-/B-/AF	15
		100% Molecular sieve			
		100% Tamis moleculaire			
		100% Molekularsieb			
	4490/B (1)	100 % Setaccio molecolare	800	4411/A-/B-/AF 4412/A-/B-/AF 4413/A-/B-/AF 4414/A-/B-/AF	15
		100% Molecular sieve			
		100% Tamis moleculaire			
		100% Molekularsieb			
	4490/AA	80% Setaccio molecolare + 20% allumina attivata	800	4411/A-/B-/AF 4412/A-/B-/AF 4413/A-/B-/AF 4414/A-/B-/AF	15
		80% Molecular sieve + 20% activated alumina			
		80% Tamis moleculaire + 20% alumine activee			
		80% molekularsieb + 20% aktivem aluminium			
	4490/AB (1)	80% Setaccio molecolare + 20% allumina attivata	800	4411/A-/B-/AF 4412/A-/B-/AF 4413/A-/B-/AF 4414/A-/B-/AF	15
		80% Molecular sieve + 20% activated alumina			
		80% Tamis moleculaire + 20% alumine activee			
		80% molekularsieb + 20% aktivem aluminium			
4491/A	100 % Setaccio molecolare	1600	4423/A 4424/A	6	
	100% Molecular sieve				
	100% Tamis moleculaire				
	100% Molekularsieb				
4491/AA	80% Setaccio molecolare + 20% allumina attivata	1600	4423/A 4424/A	6	
	80% Molecular sieve + 20% activated alumina				
	80% Tamis moleculaire + 20% alumine activee				
	80% molekularsieb + 20% aktivem aluminium				

**Note:**

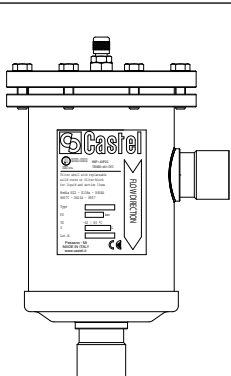
- (1) Fornita senza guarnizione di ricambio della controflangia del filtro  
(1) Supplied without cover gasket as spare part  
(1) Fournies sans la garniture de remplacement de la contre-bride du filtre  
(1) Ohne ersatzdichtung für filtergegenflansch geliefert



**FILTRI A CARTUCCIA MECCANICA RICAMBIABILE**  
**ATTACCHI DI RAME E COPERCHIO FILETTATO**  
**MECHANICAL FILTERS WITH REPLACEABLE FILTERING BLOCK**  
**COPPER CONNECTIONS AND THREADED COVER**  
**FILTRES A CARTOUCHE MÉCANIQUE REMPLAÇABLES**  
**RACCORDS EN CUIVRE ET COUVERCLE FILETÉ**  
**MECHANISCHE / SAUGLEITUNGSFILTER**  
**KUPFER-ANSCHLÜSSE UND SCHRAUBKAPPE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		Tipo cartuccia Cartridge type Type cartouches Patronentyp	Superficie filtrante Filtering surface Surface filtrante Filterfläche [cm <sup>2</sup> ]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS					Min	Max	
		Ø [in.]	Ø [mm]						
	4411/7C	7/8"	22	4495/C	820	45	-40	+80	1
	4411/9C	1.1/8"	-						
	4411/11C	1.3/8"	35						
	4411/13C	1.5/8"	-						
	4411/M42C	-	42						
	4411/17C	2.1/8"	54						
	4411/21C	2.5/8"	-						

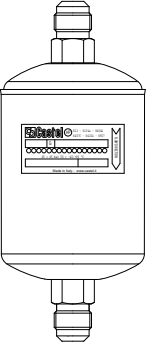
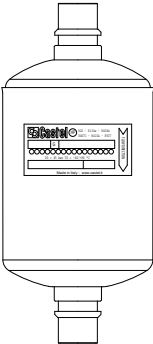
**FILTRI A CARTUCCIA MECCANICA RICAMBIABILE**  
**ATTACCHI D'ACCIAIO E COPERCHIO FILETTATO**  
**MECHANICAL FILTERS WITH REPLACEABLE FILTERING BLOCK**  
**STEEL CONNECTIONS AND THREADED COVER**  
**FILTRES A CARTOUCHE MÉCANIQUE REMPLAÇABLES**  
**RACCORDS EN ACIER ET COUVERCLE FILETÉ**  
**MECHANISCHE / SAUGLEITUNGSFILTER**  
**STAHL-ANSCHLÜSSE UND SCHRAUBKAPPE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse			Tipo cartuccia Cartridge type Type cartouches Patronentyp	Superficie filtrante Filtering surface Surface filtrante Filterfläche [cm <sup>2</sup> ]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS		W				Min	Max	
		Ø [in.]	Ø [mm]	Ø [mm]						
	4411/7CF	7/8"	22	-	4495/C	820	45	-40	+80	1
	4411/9CF	1.1/8"	-	-		820	45			
	4411/11CF	1.3/8"	35	-		820	45			
	4411/13CF	1.5/8"	-	-		820	45			
	4411/M42CF	-	42	-		820	45			
	4411/17CF	2.1/8"	54	-		820	45			
	4411/21CF	2.5/8"	-	76.1		820	45			
	4411/25CF	3.1/8"	80	88.9		820	45			
	4421/21C	2.5/8"	-	76.1	4496/C	1850	32			
	4421/25C	-	-	88.9		1850	32			
	4421/33C	-	107	114.3		1850	32			
	4421/34C	-	108	114.3		1850	32			


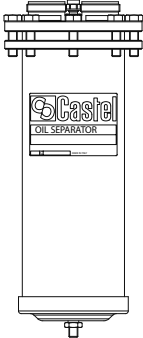
**CARTUCCE PER FILTRI MECCANICI**  
**BLOCKS**  
**CARTOUCHE PUOR FILTRES MÉCANIQUE**  
**FILTEREINSATZ FÜR MECHANISCHE FILTER**

Disegno Drawing Dessin Zeichnung	N° catalogo N° catalogo N° Catalogue Katalog Nr	Superficie filtrante Filtering surface Surface filtrante Filterierfläche [cm <sup>2</sup> ]	Per filtri Suitable for filter Pour filtre Für filter	Confezione n° pezzi Package pcs Emballage Verpackung
	4495/C	820	4411 /C	10
	4496/C	1850	4421 /C	6

**FILTRI A RETE**  
**STRAINERS**  
**FILTRES EN TAMIS MÉTALLIQUE**  
**NETZFILTER**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse				Superficie filtrante Filtering surface Surface filtrante Filterierfläche [cm <sup>2</sup> ]	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
		SAE Flare	ODS		ODM				Min	Max		
			Ø [in.]	Ø [mm]	Ø [in.]							Ø [mm]
	4510/3	3/8"	-	-	-	-	58	2.4	45	-40	+80	34
	4510/4	1/2"	-	-	-	-	142	3.2				28
	4520/2	-	1/4"	-	3/8"	-	58	2.4	45	-40	+80	34
	4520/3		3/8"	-	1/2"	-	58	2.4				34
	4520/M10		-	10	-	12	58	2.4				34
	4520/M12		-	12	-	14	58	3.4				34
	4520/4		1/2"	-	5/8"	16	58	3.4				34
	4520/5		5/8"	16	3/4"	-	58	3.4				34
	4520/M18		-	18	-	22	142	8				28

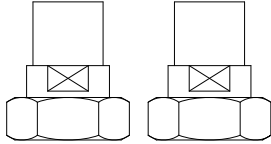
**SEPARATORI D'OLIO**  
**OIL SEPARATORS**  
**SÉPARATEURS D'HUILE**  
**ÖLABSCHEIDER**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi saldare Solder connections Raccords à souder Schweiss-anschlüsse				Coppia attacchi saldare (1) N° catalogo Couple of solder connections (1) Part number Couple de raccords à souder (1) N° Catalogue Schweissanschluss-paar (1) Katalog Nr	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS		ODM				Min	Max	
		Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]					
	5540/4	1/2"	-	5/8"	16	-	45	-10	+130	1
	5540/5	5/8"	16	3/4"	-					
	5540/7	7/8"	-	1"	-					
	5540/9	1.1/8"	-	1.3/8"	35					
	5540/11	1.3/8"	35	1.5/8"	-					
	5540/13	1.5/8"	-	-	-					
	5540/M42	-	42	-	-					
	5540/17	2.1/8"	54	-	-					
	5520/C	-	-	-	-	45	-10	+130	1	5590/5 - 5590/7
	5520/D	-	-	-	-					5590/9 - 5590/11
	5520/E	-	-	-	-					5590/13 - 5590/M42

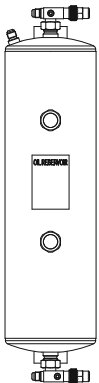
**Note:**

- (1) Da ordinare separatamente
- (1) To be ordered separately
- (1) Doit être commandé séparément
- (1) Sind separat zu bestellen

**COPPIE DI ATTACCHI PER SEPARATORI D'OLIO 5520**  
**COUPLE OF CONNECTIONS FOR OIL SEPARATORS 5520**  
**COUPLE DE CONNECTIONS POUR SÉPARATEURS D'HUILE 5520**  
**LOETFITTINGEPAAR FÜR ÖLABSCHEIDER 5520**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi saldare Solder connections Raccords à souder Schweiss-anschlüsse		PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS			Min	Max	
		Ø [in.]	Ø [mm]				
	5590/5	5/8"	16	45	-10	+130	1
	5590/7	7/8"	-				
	5590/9	1.1/8"	-				
	5590/11	1.3/8"	35				
	5590/13	1.5/8"	-				
	5590/M42	-	42				

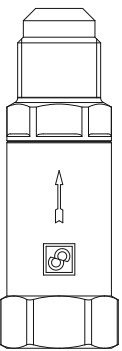
**RISERVE D'OLIO**  
**OIL RESERVOIRS**  
**RÉSERVOIRS D'HUILE**  
**ÖLSAMMELGEFÄßE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi SAE FLARE SAE FLARE Connections Raccords SAE FLARE SAE FLARE Anschlüsse			Volume Volume Volume Inhalt		PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		Ingresso Inlet Entrée Eintritt	Uscita Outlet Sortie Austritt	Valvola tarata (1) Set valve (1) Clapet taré (1) Druckventile (1)	US Gallons	[l]		Min	Max	
	5740/2G				2	7.56	32	-10	+130	1
	5740/3G	3/8"	3/8"	3/8"	3	11.34				
	5740/4G				4	15.14				

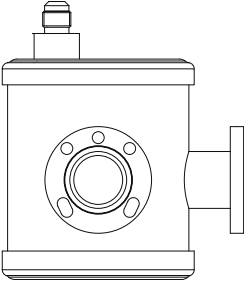
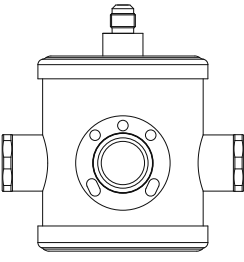
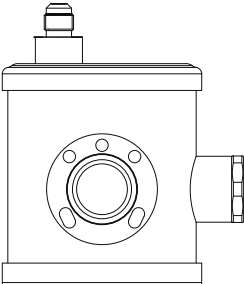
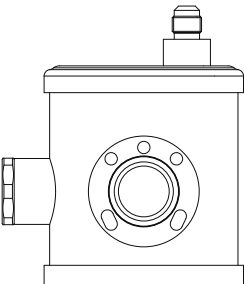
Note:

- (1) Da ordinare separatamente
- (1) To be ordered separately
- (1) Doit être commandé séparément
- (1) Sind separat zu bestellen

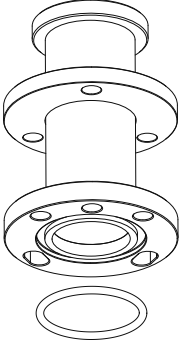
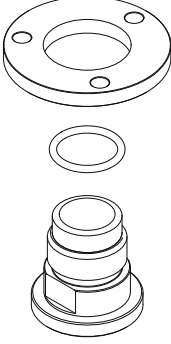
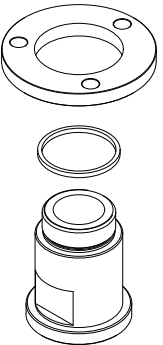
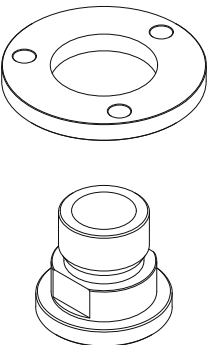
**VALVOLE TARATE PER RISERVA D'OLIO**  
**OIL RESERVOIR PRESSURE VALVES**  
**CLAPETS TARÉ POUR RÉSERVOIR D'HUILE**  
**DRUCKVENTILE FÜR ÖLSAMMELGEFÄß**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog nr	Attacchi SAE FLARE SAE FLARE connections Raccords SAE FLARE SAE FLARE Anschlüsse		Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		IN	OUT			Min	Max	
	3150/X01	3/8" - F	3/8" - M	1.6	45	-40	+105	90
	3150/X02							90

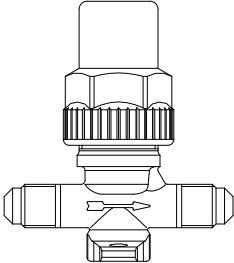
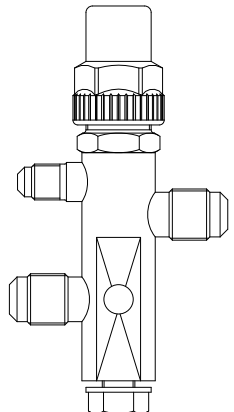
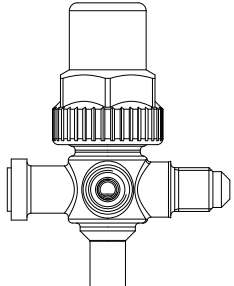
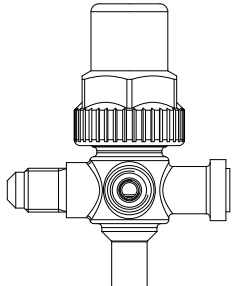
**REGOLATORI MECCANICI DI LIVELLO DELL'OLIO**  
**MECHANICAL OIL LEVEL REGULATORS**  
**RÉGULATEURS DE NIVEAU D'HUILE MÉCANIQUE**  
**MECHANISCHE ÖLSPIEGELREGULATOREN**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse			Versione Version Modél Ausführung	Volume Volume Volume Inhalt []	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		Carter compressore Compressor crankcase Carter du compresseur Verdichter- Kurbelgehäuse	Spia livello olio Oil level inspection Hublot de contrôle de niveau d'huile Ölschauglas	Ingresso olio Oil inlet Entree d'huile Öleintritt SAE FLARE				Min	Max	
	5640/A		Flangiato con 3 viti Ø 1.7/8" e 4 viti Ø 50 mm Flanged with 3 bolts dia 1.7/8" and 4 bolts dia 50 mm Joint torique 3 vis sur Ø 1.7/8" et 4 vis sur Ø 50 mm Flansch mit Verschraubung 3 x Ø 1.7/8" und 4 x Ø 50 mm							
	5640/B	Flangiato con 3 viti Ø 1.7/8" e 4 viti Ø 50 mm Flanged with 3 bolts dia 1.7/8" and 4 bolts dia 50 mm	2 spie di livello già montate 2 sight glasses already mounted double indicateur installé Fuellstandsanzeige mit 2 Schauglaeser							
	5640/C	Joint torique 3 vis sur Ø 1.7/8" et 4 vis sur Ø 50 mm Flansch mit Verschraubung 3 x Ø 1.7/8" und 4 x Ø 50 mm	1 spia di livello già montata 1 sight glass already mounted un indicateur installé Fuellstandsanzeige mit 1 Schauglas	3/8"		0.8	32	-10	+130	1
	5640/D		1 spia di livello già montata 1 sight glass already mounted un indicateur installé Fuellstandsanzeige mit 1 Schauglas							

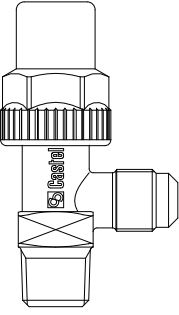
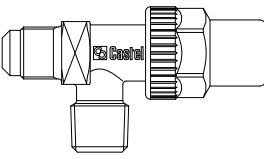
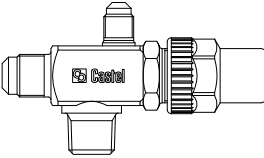
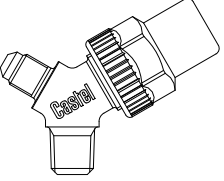
**ADATTATORI PER REGOLATORI DI LIVELLO DELL'OLIO**  
**OIL LEVEL REGULATORS ADAPTERS**  
**ADAPTATEURS POUR RÉGULATEURS DE NIVEAU D'HUILE**  
**ADAPTER FÜR ÖLSPIEGELREGULATOR-**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi Carter compressore Connections Compressor crankcase Raccords Carter du compresseur Verdichter-Kurbelgehäuse Anschlüsse	Confezione n° pezzi Package pcs Emballage Verpackung
	5690/X01	Flangiato con 3 viti Ø 1.7/8 e 4 viti Ø 50 mm Flanged with 3 bolts dia 1.7/8" and 4 bolts dia 50 mm Joint torique 3 vis sur Ø 1.7/8 et 4 vis sur Ø 50 mm Flansch mit Verschraubung 3 x Ø 1.7/8" und 4 x Ø 50 mm	
	5690/X02	Filettato 1.1/8" - 12 UNF 1.1/8" - 12 UNF thread Fileté 1.1/8" - 12 UNF Gewinde 1.1/8" - 12 UNF	1
	5690/X03	Filettato 1.1/8" - 18 UNEF 1.1/8" - 18 UNEF thread Fileté 1.1/8" - 18 UNEF Gewinde 1.1/8" - 18 UNEF	
	5690/X04	Filettato 3/4" NPT 3/4" NPT thread Fileté 3/4" NPT Gewinde 3/4" NPT	

**RUBINETTI PER SISTEMI FRIGORIFERI ERMETICI**  
**VALVES FOR HERMETIC SYSTEMS**  
**VANNES POUR INSTALLATIONS DE GROUPES HERMÉTIQUES**  
**KLEINVENTILE FÜR HERMETIC KÄLTENLAGEN**

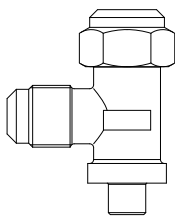
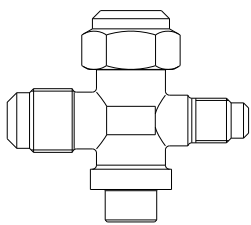
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Att. Carica SAE Flare Acces fitting SAE Flare Raccord chargement SAE Flare Fullanschlüss SAE Flare	Attacchi Connections Raccords Anschlüsse				Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare		ODS				Min	Max	
			1/4"	1/4"	Ø [in.]	Ø [mm]					
	6010/2	-	1/4"	1/4"	-	-	0.27	45	-60	+130	45
	6012/22	-	1/4"	-	1/4"	-	-	-	-	-	72
	6020/222	1/4"	1/4"	1/4"	-	-	0.39	45	-60	+110	40
	6020/233		3/8"	3/8"			1.2				
	6020/244		1/2"	1/2"			2.2				
	6020/255		5/8"	5/8"			2.8				
	6065/22M6	1/4"	1/4"	-	-	6	0.46	45	-40	+110	48
	6065/23M10		3/8"	-	-	10	1.38				
	6075/22M6	1/4"	1/4"	-	-	6	0.46	45	-40	+110	48
	6075/23M8		3/8"			8	1.29				
	6075/23M10		3/8"			10	1.38				
	6075/24M12		1/2"			12	2.55				
	6075/25M16		5/8"			16	3.4				

**RUBINETTI PER SERBATOIO**  
**RECEIVER VALVES**  
**VANNES DEPART LIQUIDE**  
**BEHAELTERVENTILE**

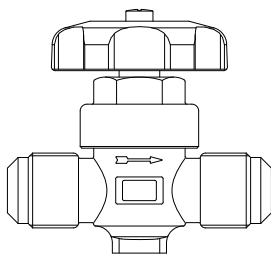
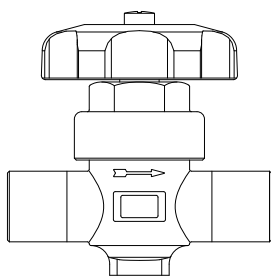
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Att. Carica SAE Flare Access fitting SAE Flare Raccord chargement SAE Flare Fullanschlüss SAE Flare	Attacchi Connections Raccords Anschlüsse		Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare	NPT			Min	Max	
	6110/21	-	1/4"	1/8"	0.44	45	-60	+130	90
	6110/22		1/4"	1/4"	0.44				90
	6110/X11		-	1/4" M/F	0.44				90
	6110/X15	1/4" f	1/4"	-	0.44				90
	6110/23	-	1/4"	3/8"	0.45				90
	6110/32		3/8"	1/4"	1.35				90
	6110/33		3/8"	3/8"	1.35				90
	6110/X13	3/8" f	3/8"	-	1.35				90
	6110/43	-	1/2"	3/8"	2.4				90
	6110/44		1/2"	1/2"	3.4				90
	6110/54		5/8"	1/2"	3.4				90
	6110/66		3/4"	3/4"	6				24
	6120/22	-	1/4"	1/4"	0.44	45	-60	+130	90
	6120/23		1/4"	3/8"	0.45				90
	6120/32		3/8"	1/4"	1.35				90
	6120/33		3/8"	3/8"	1.35				90
	6120/43		1/2"	3/8"	2.4				90
	6120/44		1/2"	1/2"	3.4				90
	6120/54		5/8"	1/2"	3.4				90
	6120/66		3/4"	3/4"	6				24
	6132/22	1/4"	1/4"	1/4"	0.45	45	-60	+110	90
	6132/33		3/8"	3/8"	1.2				90
	6132/44		1/2"	1/2"	2.2				40
	6132/54		5/8"	1/2"	3.85				40
	6140/22	-	1/4"	1/4"	0.36	45	-60	+130	90
	6140/23		1/4"	3/8"					



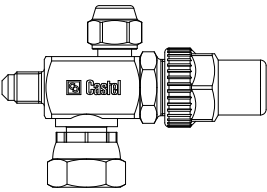
**RUBINETTI PER CONDIZIONATORI SPLIT**  
**STOP VALVES FOR SPLIT CONDITIONING SYSTEMS**  
**VANNES POUR CLIMATISEURS SPLIT**  
**KLEINVENTILE FÜR SPLIT - KLIMAAANLAGEN**

Disegno Drawing Dessin Zzeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Att. Carica SAE Flare Access fitting SAE Flare Raccord chargement SAE Flare Fullanschlüss SAE Flare	Attacchi Connections Raccords Anschlüsse			Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare	ODS				Min	Max	
				Ø [in.]	Ø [mm]					
	6165/22	-	1/4"	1/4"	-	0.68	45	-20	+110	96
	6165/33		3/8"	3/8"	-	1.7				
	6175/33	1/4"	3/8"	3/8"	-	1.7	45	-20	+110	72
	6175/44		1/2"	1/2"	-	3.4				72
	6175/55		5/8"	5/8"	16	4.6				72
	6170/66		3/4"	3/4"	-	9				16
	6170/77		7/8"	7/8"	-	10.8				16

**RUBINETTI A MEMBRANA**  
**DIAPHRAGM VALVES**  
**VANNES A MEMBRANE**  
**MEMBRANVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung	
					SAE Flare	ODS		
						Ø [in.]		Ø [mm]
	6210/2	14"	0.28	28	-35	+90	45	
	6210/3	3/8"	1				45	
	6210/4	1/2"	1.3				45	
	6210/5	5/8"	1.8				45	
	6210/6	3/4"	3.65				16	
	6220/M6	-	6	0.28	28	-35	+90	45
	6220/2	1/4"	-	0.28				45
	6220/3	3/8"	-	1				45
	6220/M10	-	10	1				45
	6220/4	1/2"	-	1.3				45
	6220/5	5/8"	16	1.8				45
	6220/6	3/4"	-	3.65				16
	6220/7	7/8"	-					16

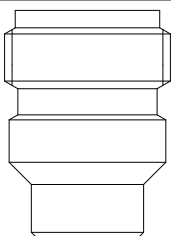
**RUBINETTI ROTALOCK  
 ROTALOCK VALVES  
 VANNES TYPE ROTALOCK  
 ROTALOCKVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Att. Carica SAE Flare Access fitting SAE Flare Embout chargement SAE Flare Fullanschlüss SAE Flare	Attacchi Connections Raccords Anschlüsse		Raccordo Union Raccord Anschlussstutzen	Guarnizione Gasket Joint Dichtung	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs. Emballage Verpackung
			SAE Flare	Rotalock					Min	Max	
	6310/2	1/4"	1/4"	3/4" UNF	7910/6 (1)	7990/6 (1)	0.46	45	-60	+110	45
	6310/3		3/8"	3/4" UNF	7910/6 (1)	7990/6 (1)	1.35				45
	6310/4		1/2"	3/4" UNF	7910/6 (1)	7990/6 (1)	1.35				45
	6320/3		3/8"	1" UNS	7910/8 (1)	7990/8 (1)	1.4				45
	6320/4		1/2"	1" UNS	7910/8 (1)	7990/8 (1)	3.1				40
	6320/5		5/8"	1" UNS	7910/8 (1)	7990/8 (1)	3.4				40
	6320/6		3/4"	1" UNS	7910/8 (1)	7990/8 (1)	3.4				40


**Note:**

- (1) Da ordinare separatamente
- (1) To be ordered separately
- (1) Doit être commandé séparément
- (1) Sind separat zu bestellen

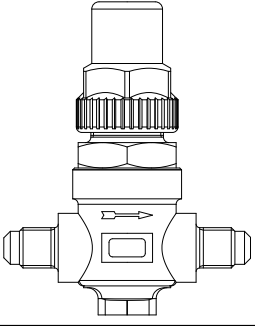
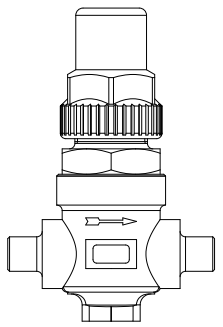
**RACCORDI PER RUBINETTI ROTALOCK  
 ROTALOCK VALVES UNIONS  
 RACCORDS POUR VANNES TYPE ROTALOCK  
 ANSCHLUSSTUTZEN FÜR ROTALOCKVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacco Connection Raccord Anschlüss	Confezione n° pezzi Package pcs. Emballage Verpackung
	7910/6	3/4" UNF	100
	7910/8	1" UNS	25

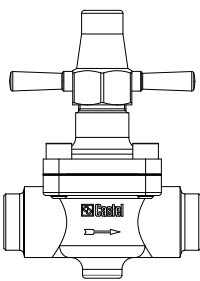
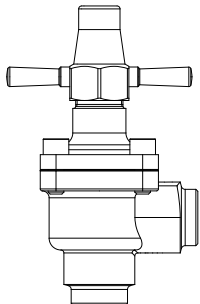
**GUARNIZIONI PER RUBINETTI ROTALOCK  
 ROTALOCK VALVES GASKETS  
 JOINTS POUR VANNES TYPE ROTALOCK  
 DICHTUNG FÜR ROTALOCKVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacco Connection Raccord Anschlüss	Confezione n° pezzi Package pcs. Emballage Verpackung
	7990/6	3/4" UNF	1
	7990/8	1" UNS	1

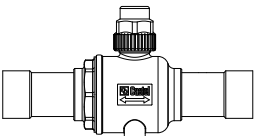
**RUBINETTI A CAPPELLOTTO**  
**CAPPED VALVES**  
**VANNES A CAPOUCHON**  
**KAPPENVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacco Connection Raccord AnschlÜs			Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	ODS				Min	Max	
			Ø [in.]	Ø [mm]					
	6410/2	1/4"	-	-	0.4	45	-60	+110	45
	6410/3	3/8"	-	-	1				45
	6410/4	1/2"	-	-	1.45				45
	6410/5	5/8"	-	-	1.7				45
	6410/6	3/4"	-	-	3.5				14
	6420/2	-	1/4"	-	0.4	45	-60	+110	45
	6420/3	-	3/8"	-	1				45
	6420/3S3	3/8" - OUT	3/8" - IN	-	1				45
	6420/M10	-	-	10	1				45
	6420/M12	-	-	12	1.45				45
	6420/4	-	1/2"	-	1.45				45
	6420/5	-	5/8"	16	1.7				45
	6420/M18	-	-	18	3.5				14
	6420/6	-	3/4"	-	3.5				14
	6420/M22	-	-	22	3.5				14
	6420/7	-	7/8"	-	3.5				14

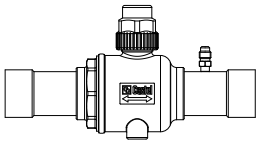
**RUBINETTI A GLOBO**  
**GLOBE VALVES**  
**VANNES A CAPOUCHON PAPILLON**  
**GLOBE ABSPERRVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse				Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS		ODM				Min	Max	
		Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]					
	6512/M22	-	22	-	28	7.1	45	-35	+160	16
	6512/7	7/8"	-	1.1/8"	-	7.1				16
	6512/M28	-	28	1.3/8"	35	8.4				16
	6512/9	1.1/8"	-	1.3/8"	35	8.4				16
	6512/11	1.3/8"	35	1.5/8"	-	15				10
	6512/13	1.5/8"	-	2"	-	25				1
	6512/M42	-	42	2"	-	25				1
	6512/17	2.1/8"	54	-	-	40				1
	6532/M22	-	22	-	28	8.2	45	-35	+160	16
	6532/7	7/8"	-	1.1/8"	-	8.2				16
	6532/M28	-	28	1.3/8"	35	9.1				16
	6532/9	1.1/8"	-	1.3/8"	35	9.1				16
	6532/11	1.3/8"	35	1.5/8"	-	18.7				10
	6532/13	1.5/8"	-	2"	-	38				1
	6532/M42	-	42	2"	-	38				1
	6532/17	2.1/8"	54	-	-	48.5				1

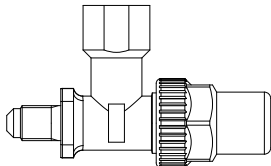
**RUBINETTI A SFERA**  
**BALL VALVES**  
**VANNES A BOISSEAU SPHÉRIQUE**  
**KUGELVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		Foro Sfera Ø Ball port Ø Orifice bille Ø Bohrung Ø [mm]	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS					min.	max.	
		Ø [in.]	Ø [mm]						
	6590/M6	-	6	10	0.8	45	-40	+150	40
	6590/2	1/4"	-	10	0.8				40
	6590/3	3/8"	-	10	3				40
	6590/M10	-	10	10	3				40
	6590/M12	-	12	10	5				40
	6590/4	1/2"	-	10	5				40
	6591/5	5/8"	16	10	5				30
	6590/M15	-	15	15	14.5				30
	6590/5	5/8"	16	15	14.5				30
	6590/M18	-	18	15	14.5				30
	6590/6	3/4"	-	15	14.5				30
	6591/7	7/8"	22	15	14.5				17
	6590/7	7/8"	22	19	24				17
	6591/M28	-	28	19	24				14
	6591/9	1.1/8"	-	19	24				14
	6590/M28	-	28	25	40				14
	6590/9	1.1/8"	-	25	40				14
	6591/11	1.3/8"	35	25	40				14
	6590/11	1.3/8"	35	32	68				10
	6591/13	1.5/8"	-	32	68				10
	6591/M42	-	42	32	68				10
	6590/13	1.5/8"	-	38	100				1
	6590/M42	-	42	38	100				1
	6591/17	2.1/8"	54	38	100				1
	6590/17	2.1/8"	54	50	178				1
	6591/M64	-	64	50	178				1
	6591/21	2.5/8"	-	50	178				1
	6590/M64	-	64	65	293				1

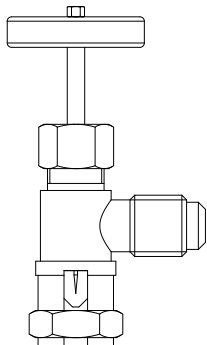
**RUBINETTI A SFERA CON ATTACCO DI CARICA**  
**BALL VALVES WITH ACCESS FITTING**  
**VANNES A BOISSEAU SPHÉRIQUE AVEC RACCORD DE CHARGE**  
**KUGELVENTILE MIT SCHRADERVENTIL**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		Foro Sfera Ø Ball port Ø Orifice bille Ø Bohrung Ø [mm]	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS					min.	max.	
		Ø [in.]	Ø [mm]						
	6590/3A	3/8"	–	10	3	45	-40	+150	40
	6590/M10A	–	10	10	3	45			40
	6590/M12A	–	12	10	5	45			40
	6590/4A	1/2"	–	10	5	45			40
	6590/M15A	–	15	15	14.5	45			30
	6590/5A	5/8"	16	15	14.5	45			30
	6590/M18A	–	18	15	14.5	45			30
	6590/6A	3/4"	–	15	14.5	45			30
	6590/7A	7/8"	22	19	24	45			17
	6590/M28A	–	28	25	40	45			14
	6590/9A	1.1/8"	–	25	40	45			14
	6590/11A	1.3/8"	35	32	68	45			10
	6590/13A	1.5/8"	–	38	100	45			1
	6590/M42A	–	42	38	100	45			1
	6590/17A	2.1/8"	54	50	178	45			1
	6591/M64A	–	64	50	178	45			1
	6591/21A	2.5/8"	–	50	178	45			1
	6590/M64A	–	64	65	293	45			1
	6590/21A	2.5/8"	–	65	293	45			1
	6591/24A	3"	76	65	293	45			1
	6591/25A	3.1/8"	80	65	293	45			1
	6590/25A	3.1/8"	80	80	430	42			1
	6591/28A	3.1/2"	89	80	430	42			1
	6591/29A	3.5/8"	92	80	430	42			1
	6591/33A	4.1/8"	105	80	430	42			1
	6591/34A	4.1/4"	108	80	430	42			1

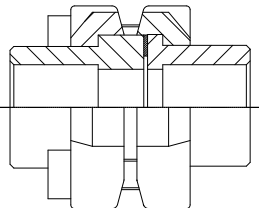
**RUBINETTI PORTAMANOMETRO  
GAUGE MOUNTING VALVES  
VANNES PORTE-MANOMÈTRE  
MANOMETERVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse			PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	NPT	SAE Flare		Min	Max	
	8320/21	1/4"	1/8"	-	45	-60	+130	1
	8320/22	1/4"	1/4"	-				
	8321/22	1/4"	-	1/4" f				

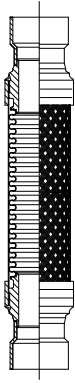
**RUBINETTO PERFORANTE  
LINE PIERCING VALVES  
ROBINET PERCE/TUBE  
EINSTECHVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		TS [°C]		PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare	Rohrdurchmesser [mm]	Min	Max		
	8330/A	1/4"	6 - 10	-10	+70	25	1

**GIUNTI A FLANGIA**  
**FLANGE JOINTS**  
**JOINTS À BRIDE**  
**FLANSCHVERBINDUNG**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
		ODS			
		Ø [in.]	Ø [mm]		
	7630/7	7/8"	-	45	1
	7630/9	1.1/8"	-		1
	7630/11	1.3/8"	35		1
	7630/13	1.5/8"	-		1
	7630/M42	-	42		1
	7630/17	2.1/8"	54		1

**ANTIVIBRANTI**  
**VIBRATION ISOLATORS**  
**ÉLIMINATEURS DE VIBRATIONS**  
**SCHWINGUNGSDÄMPFER**

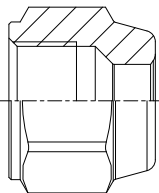
Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		ODS			Min	Max	
		Ø [in.]	Ø [mm]				
	7690/3	-	3/8"	35	-100	+ 250	100
	7690/M10	10	-	35			100
	7690/M12	12	-	35			100
	7690/4	-	1/2"	35			100
	7690/5	16	5/8"	35			50
	7690/M18	18	-	35			50
	7690/6	-	3/4"	35			50
	7690/7	22	7/8"	35			25
	7690/M28	28	-	35			25
	7690/9	-	1.1/8"	35			25
	7690/11	35	1.3/8"	35			10
	7690/13	-	1.5/8"	35			10
	7690/M42	42	-	35			10
	7690/17	54	2.1/8"	35			5
	7690/M64	-	-	25			1
	7690/21	67	2.5/8"	25			1
	7690/24	76	3"	25			1
	7690/25	80	3.1/8"	25			1
	7690/28	89	3.1/2"	25			1
	7690/34	108	4.1/4"	25			1



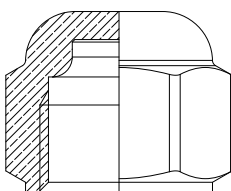
**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	SAE Flare	Tubo di rame Copper Pipe Tuyau en cuivre Kupferrohr		PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
				Ø [in.]	Ø [mm]		

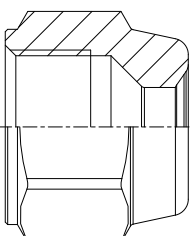
BOCCHETTONI SAE FLARE PER TUBI IN POLLICI  
 SAE FLARE NUTS FOR INCH TUBING  
 RACCORDS SAE FLARE POUR TUYAUX EN POUCES  
 BÖRDELMUTTER FÜR ROHRE IN ZOLLN

	7010/22	NS4-4	1/4"	1/4"	6	45	500
	7010/33	NS4-6	3/8"	3/8"	-		250
	7010/44	NS4-8	1/2"	1/2"	-		200
	7010/55	NS4-10	5/8"	5/8"	16		150
	7010/66	NS4-12	3/4"	3/4"	-		75
	7010/77	NS4-14	7/8"	7/8"	22		10
	7010/88	NS4-16	1"	1"	-		10

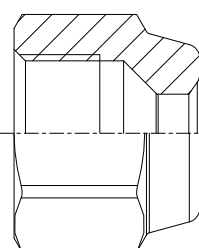
BOCCHETTONI SAE FLARE CIECHI  
 SAE FLARE CAP NUTS  
 RACCORDS SAE FLARE BORGNE  
 BLINDSTUTZEN BÖRDEL

	7020/20	NS-4 CAP NUT	1/4"	-	-	45	500
	7020/X02	NS-5 CAP NUT	5/16"	-	-		500

BOCCHETTONI SAE FLARE RIDOTTI PER TUBI IN POLLICI  
 SAE FLARE REDUCING NUTS FOR INCH TUBING  
 RACCORDS SAE FLARE RÉDUITS POUR TUYAUX EN POUCES  
 REDUZIERTE BÖRDELMUTTER FÜR ROHRE IN ZOLLN

	7020/32	NRS4-64	3/8"	1/4"	6	45	250
	7020/43	NRS4-86	1/2"	3/8"	-		200
	7020/54	NRS4-108	5/8"	1/2"	-		150
	7020/65	NRS4-1210	3/4"	5/8"	16		75
	7020/87	NRS4-1614	1"	7/8"	22		10

BOCCHETTONI SAE FLARE PER TUBI IN MILLIMETRI  
 SAE FLARE NUTS FOR METRIC TUBING  
 RACCORDS SAE FLARE POUR TUYAUX EN MILLIMÈTRES  
 BÖRDELMUTTER FÜR ROHRE IN MILLIMETERN

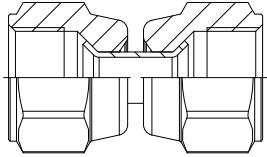
	7030/2M5	-	1/4"	-	5	45	250
	7030/3M8	-	3/8"	-	8		250
	7030/3M10	-	3/8"	-	10		250
	7030/4M10	-	1/2"	-	10		200
	7030/4M12	-	1/2"	-	12		200
	7030/X04 (1)	-	1/2"	-	12		200
	7030/4M14	-	1/2"	-	14		200
	7030/5M12	-	5/8"	-	12		150
	7030/5M14	-	5/8"	-	14		150
	7030/6M14	-	3/4"	-	14		75
	7030/6M18	-	3/4"	-	18		75

(1) : ribassato / shortened length / réduit / Reduzierung

**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	SAE Flare	Tubo di rame Copper Pipe Tuyau en cuivre Kupferrohr		PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
				Ø [in.]	Ø [mm]		

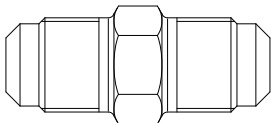
MANICOTTI GIREVOLI  
 SAE FLARE TWIN NUTS  
 MANCHONS PIVOTANTS  
 DOPPELMUTTER

	7050/2	US4-4	1/4"	-	-	45	250
	7050/3	US4-6	3/8"	-	-		150
	7050/4	US4-8	1/2"	-	-		100
	7050/5	US4-10	5/8"	-	-		75

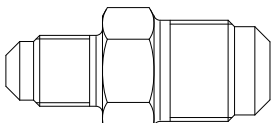
**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse		PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare	NPT		

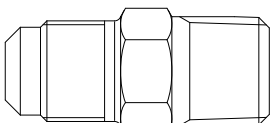
GIUNTI SAE FLARE  
 SAE FLARE UNIONS  
 JOINTS SAE FLARE  
 VERBINDER

	7110/2	U2-4	1/4"	-	45	500
	7110/3	U2-6	3/8"	-		200
	7110/4	U2-8	1/2"	-		150
	7110/5	U2-10	5/8"	-		75
	7110/6	U2-12	3/4"	-		10
	7110/8	U2-16	1"	-		10

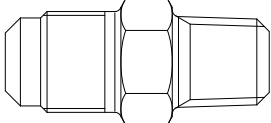
GIUNTI SAE FLARE RIDOTTI  
 REDUCING SAE FLARE UNIONS  
 JOINTS SAE FLARE RÉDUITS  
 REDUZIERVERBINDER

	7120/23	UR2-64	1/4" x 3/8"	-	45	25
	7120/24	UR2-84	1/4" x 1/2"	-		25
	7120/34	UR2-86	3/8" x 1/2"	-		25
	7120/35	UR2-106	3/8" x 5/8"	-		25
	7120/45	UR2-108	1/2" x 5/8"	-		10
	7120/46	UR2-128	1/2" x 3/4"	-		10
	7120/56	UR2-1210	5/8" x 3/4"	-		10

GIUNTI SAE FLARE / NPT  
 SAE FLARE / NPT UNIONS  
 JOINTS SAE FLARE / NPT  
 SAE BÖRDEL / NPT VERBINDER

	7130/2	U1-4B	1/4"	1/4"	45	400
	7130/3	U1-6C	3/8"	3/8"		200
	7130/4	U1-8D	1/2"	1/2"		100
	7130/6	U1-12F	3/4"	3/4"		10
	7130/8	U1-16H	1"	1"		10

GIUNTI SAE FLARE / NPT RIDOTTO  
 SAE FLARE / NPT REDUCING UNIONS  
 JOINTS SAE FLARE / NPT RÉDUIT  
 SAE BÖRDEL / NPT REDUZIERVERBINDER

	7140/21	U1-4A	1/4"	1/8"	45	500
	7140/32	U1-6B	3/8"	1/4"		100
	7140/34	U1-6D	3/8"	1/2"		100
	7140/43	U1-8C	1/2"	3/8"		50
	7140/54	U1-10D	5/8"	1/2"		25

**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse						PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare		NPT	GAS	ODS			
			m	f			Ø [in.]	Ø [mm]		

RIDUZIONE MASCHIO / FEMMINA (FEMMINA RIDOTTA)  
 MALE / FEMALE REDUCING UNIONS (REDUCED FEMALE)  
 RÉDUCTION MÂLE / FEMELLE (FEMELLE RÉDUITE)  
 REDUZIERSTÜCK AUSSENGEWINDE / INNENGEWINDE (REDUZIERTES INNENGEWINDE)

	7150/21	U3-4A	1/4"	-	1/8" f	-	-	-	45	50
	7150/32	UR3-46	3/8"	1/4"	-	-	-	-		25
	7150/43	UR3-68	1/2"	3/8"	-	-	-	-		25
	7150/54	UR3-810	5/8"	1/2"	-	-	-	-		25
	7150/64	UR3-812	3/4"	1/2"	-	-	-	-		10
	7150/65	UR3-1012	3/4"	5/8"	-	-	-	-		10

RIDUZIONE MASCHIO / FEMMINA (MASCHIO RIDOTTO)  
 MALE / FEMALE REDUCING UNIONS (REDUCED MALE)  
 RÉDUCTION MÂLE / FEMELLE (MÂLE RÉDUITE)  
 REDUZIERSTÜCK AUSSENGEWINDE / INNENGEWINDE (REDUZIERTES AUSSENGEWINDE)

	7150/X29	-	-	1/4"	1/8"	-	-	-	45	25
	7150/X27	-	-	1/4"	1/4"	-	-	-		25
	7150/23	UR3-64	1/4"	3/8"	-	-	-	-		25
	7150/24	UR3-84	1/4"	1/2"	-	-	-	-		25
	7150/34	UR3-86	3/8"	1/2"	-	-	-	-		25
	7150/45	UR3-108	1/2"	5/8"	-	-	-	-		25
	7150/46	UR3-128	1/2"	3/4"	-	-	-	-		10
	7150/56	UR3-1210	5/8"	3/4"	-	-	-	-		10

RIDUZIONE PER BOMBOLE FREON  
 CYLINDER ADAPTORS  
 RÉDUCTIONS POUR BOUTEILLES DE FRÉON  
 REDUZIERSTÜCK FÜR FREON-FLASCHEN

	7154/2	-	1/4"	20 - 14 filetti sx. femmina				45	25
				20-14 left thread, female					
				20-14 filets gauche femelle					
				20-14 innengewinde LI					
7156/2	-	1/4"	W 21,8 - 14 filetti dx. femmina				45	25	
			W 21,8-14 right thread, female						
			W 21,8-14 filets droite femelle						
			W 21,8-14 Innengewinde RE						

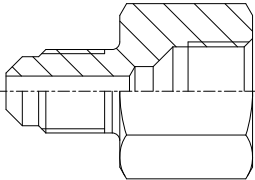
PROLUNGHE MASCHIO / FEMMINA  
 MALE / FEMALE UNIONS  
 RALLONGES MÂLE / FEMELLE  
 VERLÄNGERUNGSTÜCKE AUSSENGEWINDE / INNENGEWINDE

	7160/2	-	1/4"	1/4"	-	-	-	-	45	10
	7160/3	-	3/8"	3/8"	-	-	-	-		10
	7160/4	-	1/2"	1/2"	-	-	-	-		10

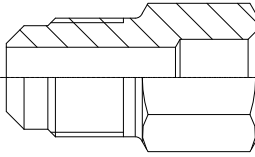
**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse						PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare		NPT	GAS	ODS			
			m	f			Ø [in.]	Ø [mm]		

PROLUNGHE DI CONVERSIONE  
 UNIONS SAE FLARE TO BSP  
 RALLONGES DE CONVERSION  
 UMKEHRVERLÄNGERUNGSTÜCKE

	7164/2	-	1/4"	-	-	G1/4" f	-	-	45	100
	7166/2	-	-	1/4"	-	G1/4" m	-	-		25

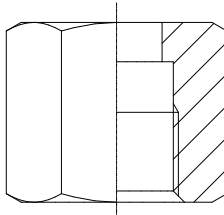
GIUNTI A SALDARE  
 MALE SAE FLARE /SOLDER UNIONS  
 JOINTS À SOUDER  
 SCHWEISSVERBINDUNGEN

	7170/22	US3-44	1/4"	-	-	-	1/4"	-	45	250
	7170/2M8	-	1/4"	-	-	-	-	8		250
	7170/33	US3-66	3/8"	-	-	-	3/8"	-		300
	7170/3M8	-	3/8"	-	-	-	-	8		50
	7170/3M10	-	3/8"	-	-	-	-	10		50
	7170/34	-	3/8"	-	-	-	1/2"	-		50
	7170/44	US3-88	1/2"	-	-	-	1/2"	-		50
	7170/4M12	-	1/2"	-	-	-	-	12		50
	7170/55	US3-1010	5/8"	-	-	-	5/8"	16		50
	7170/6M18	-	3/4"	-	-	-	-	18		10
	7170/65	-	3/4"	-	-	-	5/8"	16		10
	7170/67	-	3/4"	-	-	-	7/8"	22		10

**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Drawing	Posizione componente Item position Position composant Position Komponente	Nr. Catalogo Part number N° catalogue Katalog Nr	Attacchi Connections Racords Anschlüsse			PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare	ODS			
				Ø [in.]	Ø [mm]		

ADATTATORI FLARE - ODS  
 FLARE - ODS ADAPTERS  
 ADAPTEURS FLARE - ODS  
 ZWISCHENSTÜCKE BÖRDEL - ODS

	1	9900/X58	1/4"	-	-	45	100
	2	9900/X62	-	1/4"	-		100
	3	7580/2	1/4"	-	-		100
POS.1	1	9900/X58	1/4"	-	-		100
	2	9900/X70	-	-	6		100
	3	7580/2	1/4"	-	-		100
	1	9900/X59	3/8"	-	-		50
	2	9900/X63	-	3/8"	-		50
	3	7580/3	3/8"	-	-		100
	1	9900/X59	3/8"	-	-		50
	2	9900/X71	-	-	10		50
	3	7580/3	3/8"	-	-		100
POS.2	1	9900/X60	1/2"	-	-		25
	2	9900/X64	-	1/2"	-		25
	3	7580/4	1/2"	-	-		100
	1	9900/X60	1/2"	-	-		25
	2	9900/X72	-	-	12		1
	3	7580/4	1/2"	-	-		100
POS.3	1	9900/X61	5/8"	-	-		100
	2	9900/X65	-	5/8"	16		1
	3	7580/5	5/8"	-	-		100
	1	9900/X68	3/4"	-	-		25
	2	9900/X69	-	3/4"	-		100
	3	7580/6	3/4"	-	-		100
	1	9900/X68	3/4"	-	-		25
	2	9900/X77	-	-	18		1
	3	7580/6	3/4"	-	-		100

**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse			PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare		NPT		
			m	f			

ANGOLI SAE FLARE  
 SAE FLARE ELBOWS  
 ANGLES SAE FLARE  
 WINKELSTÜCKE SAE BÖRDEL

	7210/2	E2-4	1/4"	-	-	45	50
	7210/3	E2-6	3/8"	-	-		50
	7210/4	E2-8	1/2"	-	-		50
	7210/5	E2-10	5/8"	-	-		25
	7210/6	E2-12	3/4"	-	-		10

ANGOLI SAE FLARE / NPT  
 SAE FLARE / NPT ELBOWS  
 ANGLES SAE FLARE / NPT  
 WINKELSTÜCKE SAE BÖRDEL / NPT

	7220/2	E1-4B	1/4"	-	1/4"	45	100
	7220/3	E1-6C	3/8"	-	3/8"		50
	7220/4	E1-8D	1/2"	-	1/2"		25
	7220/6	E1-12F	3/4"	-	3/4"		10

ANGOLI SAE FLARE / NPT RIDOTTO  
 SAE FLARE / REDUCED NPT ELBOWS  
 ANGLES SAE FLARE / NPT RÉDUIT  
 WINKELSTÜCKE SAE BÖRDEL / NPT REDUZIERT

	7230/21	E1-4A	1/4"	-	1/8"	45	100
	7230/32	E1-6B	3/8"	-	1/4"		50
	7230/43	E1-8C	1/2"	-	3/8"		50
	7230/54	E1-10D	5/8"	-	1/2"		25

ANGOLI SAE FLARE MASCHIO / FEMMINA  
 MALE / FEMALE SAE FLARE ELBOWS  
 ANGLES SAE FLARE MÂLE / FEMELLE  
 WINKELSTÜCKE SAE BÖRDEL AUSSENGEWINDE / INNENGEWINDE

	7240/2	-	1/4"	1/4"	-	45	50
	7240/3		3/8"	3/8"	-		25
	7240/4		1/2"	1/2"	-		10

**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° catalogue Katalog Nr	Codice internazionale International code Code International Internationaler Code	Attacchi Connections Raccords Anschlüsse					PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare				NPT (3)		
			(1)	(2)	(3)	(4)			

TEE SAE FLARE  
 SAE FLARE TEE  
 TEE SAE FLARE  
 T-STÜCK BÖRDEL

	7310/2	T2-4	1/4"	1/4"	1/4"	-	-	45	50
	7310/3	T2-6	3/8"	3/8"	3/8"	-	-		50
	7310/4	T2-8	1/2"	1/2"	1/2"	-	-		25
	7310/5	T2-10	5/8"	5/8"	5/8"	-	-		10
	7310/6	T2-12	3/4"	3/4"	3/4"	-	-		10

TEE SAE FLARE RIDOTTI (ATTACCHI LATERALI RIDOTTI)  
 SAE FLARE REDUCING TEE (REDUCED SIDE CONNECTIONS)  
 TEE SAE FLARE RÉDUITS (EMBOUITS LATÉRAUX RÉDUITS)  
 REDUZIERTE T-STÜCK BÖRDEL (REDUZIERTE SEITENANSCHLÜSSE)

	7320/223	TR2-46	1/4"	1/4"	3/8"	-	-	45	25
	7320/334	TR2-68	3/8"	3/8"	1/2"	-	-		50
	7320/445	TR2-810	1/2"	1/2"	5/8"	-	-		25
	7320/556	TR2-1012	5/8"	5/8"	3/4"	-	-		10

TEE SAE FLARE RIDOTTI (ATTACCO CENTRALE RIDOTTO)  
 SAE FLARE REDUCING TEE (REDUCED CENTRAL CONNECTION)  
 TEE SAE FLARE RÉDUITS (EMBOUITS CENTRAL RÉDUITS)  
 REDUZIERTE T-STÜCK BÖRDEL (REDUZIERTE MITTELANSCHLÜSS)

	7320/332	TR2-64	3/8"	3/8"	1/4"	-	-	45	50
	7320/443	TR2-86	1/2"	1/2"	3/8"	-	-		25
	7320/554	TR2-108	5/8"	5/8"	1/2"	-	-		10
	7320/665	TR2-1210	3/4"	3/4"	5/8"	-	-		10

TEE SAE FLARE /NPT (ATTACCO CENTRALE CONICO)  
 SAE FLARE / NPT TEE (TAPER CENTRAL CONNECTION)  
 TEE SAE FLARE /NPT (EMBOUT CENTRAL CONIQUE)  
 T-STÜCK BÖRDEL / NPT (KONISCHER MITTELANSCHLÜSS)

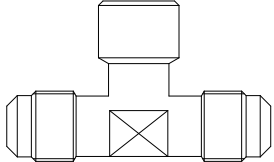
	7330/221	T1-4A	1/4"	1/4"	-	-	1/8"	45	50
	7330/222	T1-4B	1/4"	1/4"			1/4"		25
	7330/332	T1-6B	3/8"	3/8"			1/4"		25



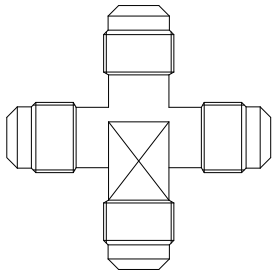
**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° catalogue Katalog Nr	Codice internazionale International code Code International Internationaler Code	Attacchi Connections Raccords Anschlüsse					PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare				NPT (3)		
			(1)	(2)	(3)	(4)			

TEE SAE FLARE MASCHIO /FEMMINA (ATTACCO CENTRALE FEMMINA)  
 MALE / FEMALE SAE FLARE TEE ( FEMALE CENTRAL CONNECTION)  
 TEE SAE FLARE MÂLE / FEMELLE (EMBOUT CENTRAL FEMELLE)  
 T-STÜCK BÖRDEL AUSSENGEWINDE / INNENGEWINDE (MITTELANSCHLÜSS MIT IAINNENGEWINDE)

	7340/222	T6-4	1/4"	1/4"	1/4"	-	-	45	50

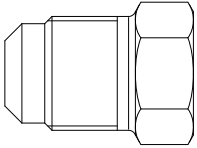
CROCE SAE FLARE  
 SAE FLARE CROSS  
 CROIX SAE FLARE  
 KREUZSTÜCK BÖRDEL

	7410/2	C1-4	1/4"	1/4"	1/4"	1/4"	-	45	50

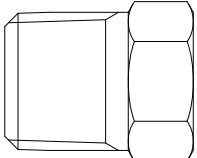
**RACCORDI D'OTTONE FILETTATI**  
**THREADED BRASS FITTINGS**  
**RACCORDS FILETES EN LAITON**  
**MISSINGFITTINGE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Codice internazionale International code Code international Internationaler code	Attacchi Connections Raccords Anschlüsse				PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
			SAE Flare	NPT	ODS			
					Ø [in.]	Ø [mm]		

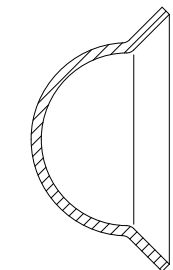
TAPPI SAE FLARE  
 SAE FLARE PLUGS  
 BOUCHON SAE FLARE  
 SAE FLARE VERSCHLÜSSE

	7510/2	P2-4	1/4"	-	-	-	45	25
	7510/3	P2-6	3/8"	-	-	-		25
	7510/4	P2-8	1/2"	-	-	-		10

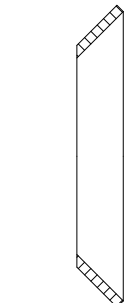
TAPPI NPT  
 NPT PLUGS  
 BOUCHONS NPT  
 NPT VERSCHLÜSSE

	7520/1	121-B-02	-	1/8"	-	-	45	50
	7520/2	121-B-04	-	1/4"	-	-		25
	7520/3	121-B-06	-	3/8"	-	-		25
	7520/4	121-B-08	-	1/2"	-	-		10
	7520/6	121-B-12	-	3/4"	-	-		10
	7520/8	121-B-16	-	1"	-	-		5

CAPPUCCI IN RAME  
 COPPER SEAL CAPS  
 CAUCHONS EN CUIVRE  
 KUPFERKAPPEN

	7560/2	B1-4	1/4"	-	-	-	45	100
	7560/3	B1-6	3/8"	-	-	-		100
	7560/4	B1-8	1/2"	-	-	-		100
	7560/5	B1-10	5/8"	-	-	-		100
	7560/6	B1-12	3/4"	-	-	-		100
	7560/7	B1-14	7/8"	-	-	-		50

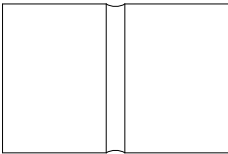
GUARNIZIONI TRONCOCONICHE IN RAME  
 COPPER GASKETS  
 GARNITURES TRONCOCONIQUES EN CUIVRE  
 KEGELSTUMPFARTIGE KUPFERDICHTUNGEN

	7580/2	B2-4	1/4"	-	-	-	45	100
	7580/3	B2-6	3/8"	-	-	-		100
	7580/4	B2-8	1/2"	-	-	-		100
	7580/5	B2-10	5/8"	-	-	-		100
	7580/6	B2-10	3/4"	-	-	-		100

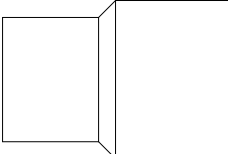
**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr		Codice internazionale International code Code international Internationaler code		Attacchi Connections Raccords Anschlüsse				Confezione n° pezzi Package pcs Emballage Verpackung
	[mm]	[in]	[mm]	[in]	ODS		ODS		
					Ø [mm]	Ø [in]	Ø [mm]	Ø [in]	

MANICOTTI FEMMINA / FEMMINA  
 FEMALE TO FEMALE COUPLINGS  
 MANCHONS FEMELLE / FEMELLE  
 MUFFEN INNEN / INNEN

	7700/M6	-	5270/M6	-	6	-	6	-	10
	7700/M8	-	5270/M8	-	8	-	8	-	
	-	7700/3	-	5270/3	-	3/8"	-	3/8"	
	7700/M10	-	5270/M10	-	10	-	10	-	
	7700/M12	-	5270/M12	-	12	-	12	-	
	7700/M14	-	5270/M14	-	14	-	14	-	
	7700/M16	-	5270/M16	-	16	-	16	-	
	7700/M18	-	5270/M18	-	18	-	18	-	
	7700/M22	-	5270/M22	-	22	-	22	-	
	-	7700/7	-	5270/7	-	7/8"	-	7/8"	
	7700/M28	-	5270/M28	-	28	-	28	-	
	-	7700/9	-	5270/9	-	1.1/8"	-	1.1/8"	
	7700/M35	-	5270/M35	-	35	1.3/8"	35	1.3/8"	
	-	7700/13	-	5270/13	-	1.5/8"	-	1.5/8"	
	7700/M42	-	5270/M42	-	42	-	42	-	
	7700/M54	-	5270/M54	-	54	2.1/8"	54	2.1/8"	
	-	7700/21	-	5270/21	-	2.5/8"	-	2.5/8"	
	7700/M76	-	5270/M76	-	76	-	76	-	
	-	7700/25	-	5270/25	-	3.1/8"	-	3.1/8"	
7700/M89	-	5270/M89	-	89	-	89	-		

RIDUZIONI FEMMINA / FEMMINA  
 FEMALE TO FEMALE REDUCING COUPLINGS  
 RÉDUCTIONS FEMELLE / FEMELLE  
 MUFFEN INNEN / INNEN

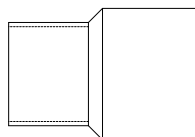
	7702/M106	-	5240/M106	-	10	-	6	-	10
	7702/M108	-	5240/M108	-	10	-	8	-	10
	7702/M128	-	5240/M128	-	12	-	8	-	10
	7702/M1210	-	5240/M1210	-	12	-	10	-	10
	7702/M1410	-	5240/M1410	-	14	-	10	-	10
	7702/M1412	-	5240/M1412	-	14	-	12	-	10
	7702/M1610	-	5240/M1610	-	16	-	10	-	10
	7702/M1612	-	5240/M1612	-	16	-	12	-	10
	7702/M1614	-	5240/M1614	-	16	-	14	-	10
	7702/M1812	-	5240/M1812	-	18	-	12	-	10
	7702/M1816	-	5240/M1816	-	18	-	16	-	10
	7702/M2212	-	5240/M2212	-	22	-	12	-	10
	7702/M2214	-	5240/M2214	-	22	-	14	-	10
	7702/M2216	-	5240/M2216	-	22	-	16	-	10
	7702/M2218	-	5240/M2218	-	22	-	18	-	10
	-	7702/76	-	5240/76	-	7/8"	-	3/4"	10
	7702/M2812	-	5240/M2812	-	28	-	12	-	10
	-	7702/95	-	5240/95	-	1.1/8"	-	5/8"	10
	7702/M2818	-	5240/M2818	-	28	-	18	-	10
	7702/M2822	-	5240/M2822	-	28	-	22	-	10
	-	7702/97	-	5240/97	-	1.1/8"	-	7/8"	10
	7702/M3522	-	5240/M3522	-	35	-	22	-	10
	7702/M3528	-	5240/M3528	-	35	-	28	-	10
	-	7702/119	-	5240/119	-	1.3/8"	-	1.1/8"	10
	7702/M4228	-	5240/M4228	-	42	-	28	-	5
	7702/M4235	-	5240/M4235	-	42	-	35	-	5
	7702/M5435	-	5240/M5435	-	54	2.1/8"	35	1.3/8"	5
	7702/M5442	-	5240/M5442	-	54	-	42	-	5
	7702/M6754	-	5240/M6754	-	67	-	54	-	1
	7702/M7654	-	5240/M7654	-	76	-	54	-	1

**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr		Codice internazionale International code Code international Internationaler code		Attacchi Connections Raccords Anschlüsse				Confezione n° pezzi Package pcs Emballage Verpackung
	[mm]	[in]	[mm]	[in]	IDS		ODS		
					Ø [mm]	Ø [in]	Ø [mm]	Ø [in]	

RIDUZIONI MASCHIO / FEMMINA  
 MALE TO FEMALE REDUCING COUPLINGS  
 RÉDUCTIONS MÂLE / FEMELLE  
 REDUZIERSTÜCKE AUSSEN / INNEN

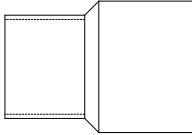
	7703/M86	-	5243/M86	-	8	-	6	-	10
	7703/M106	-	5243/M106	-	10	-	6	-	10
	7703/M108	-	5243/M108	-	10	-	8	-	10
	7703/M126	-	5243/M126	-	12	-	6	-	10
	7703/M128	-	5243/M128	-	12	-	8	-	10
	7703/M1210	-	5243/M1210	-	12	-	10	-	10
	-	7703/43	-	5243/43	-	1/2"	-	3/8"	10
	7703/M1410	-	5243/M1410	-	14	-	10	-	10
	7703/M1412	-	5243/M1412	-	14	-	12	-	10
	-	7703/53	-	5243/53	-	5/8"	-	3/8"	10
	7703/M1610	-	5243/M1610	-	16	-	10	-	10
	7703/M1612	-	5243/M1612	-	16	-	12	-	10
	7703/M1614	-	5243/M1614	-	16	-	14	-	10
	7703/M1810	-	5243/M1810	-	18	-	10	-	10
	7703/M1812	-	5243/M1812	-	18	-	12	-	10
	7703/M1814	-	5243/M1814	-	18	-	14	-	10
	7703/M1816	-	5243/M1816	-	18	-	16	-	10
	-	7703/64	-	5243/64	-	3/4"	-	1/2"	10
	-	7703/65	-	5243/65	-	3/4"	-	5/8"	10
	7703/M2212	-	5243/M2212	-	22	-	12	-	10
	7703/M2214	-	5243/M2214	-	22	-	14	-	10
	7703/M2216	-	5243/M2216	-	22	-	16	-	10
	-	7703/75	-	5243/75	-	7/8"	-	5/8"	10
	7703/M2218	-	5243/M2218	-	22	-	18	-	10
	-	7703/76	-	5243/76	-	7/8"	-	3/4"	10
	7703/M2812	-	5243/M2812	-	28	-	12	-	10
	7703/M2814	-	5243/M2814	-	28	-	14	-	10
	7703/M2816	-	5243/M2816	-	28	-	16	-	10
	7703/M2818	-	5243/M2818	-	28	-	18	-	10
	-	7703/96	-	5243/96	-	1.1/8"	-	3/4"	10
	7703/M2822	-	5243/M2822	-	28	-	22	-	10
	-	7703/97	-	5243/97	-	1.1/8"	-	7/8"	10
	7703/M3518	-	5243/M3518	-	35	-	18	-	10
	7703/M3522	-	5243/M3522	-	35	-	22	-	10
	7703/M3528	-	5243/M3528	-	35	-	28	-	10
	-	7703/119	-	5243/119	-	1.3/8"	-	1.1/8"	10
	7703/M4222	-	5243/M4222	-	42	-	22	-	5
	-	7703/139	-	5243/139	-	1.5/8"	-	1.1/8"	5
	7703/M4228	-	5243/M4228	-	42	-	28	-	5
	-	7703/1311	-	5243/1311	-	1.5/8"	-	1.3/8"	5
	7703/M4235	-	5243/M4235	-	42	-	35	-	5
	7703/M5428	-	5243/M5428	-	54	-	28	-	5
	-	7703/1713	-	5243/1713	-	2.1/8"	-	1.5/8"	5
	7703/M5442	-	5243/M5442	-	54	-	42	-	5



**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr		Codice internazionale International code Code international Internationaler code		Attacchi Connections Raccords Anschlüsse				Confezione n° pezzi Package pcs Emballage Verpackung
					IDS		ODS		
	[mm]	[in]	[mm]	[in]	Ø [mm]	Ø [in]	Ø [mm]	Ø [in]	

RIDUZIONI MASCHIO / FEMMINA  
 MALE TO FEMALE REDUCING COUPLINGS  
 RÉDUCTIONS MÂLE / FEMELLE  
 REDUZIERSTÜCKE AUSSEN / INNEN

	-	7703/219	-	5243/219	-	2.5/8"	-	1.1/8"	5
	7703/M6742	-	5243/M6742	-	67	-	42	-	1
	7703/M6754	-	5243/M6754	-	67	-	54	-	1
	7703/M7642	-	5243/M7642	-	76	-	42	-	1
	7703/M8042	-	5243/M8042	-	80	-	42	-	1
	7703/M10654	-	5243/M10654	-	106	-	54	-	1

**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr		Codice internazionale International code Code international Internationaler code		Attacchi Connections Raccords Anschlüsse				Confezione n° pezzi Package pcs Emballage Verpackung
	[mm]	[in]	[mm]	[in]	IDS		ODS		
					Ø [mm]	Ø [in]	Ø [mm]	Ø [in]	

GOMITI FEMMINA / FEMMINA  
 90° FEMALE TO FEMALE ELBOWS - SHORT RADIUS  
 COUDES FEMELLE / FEMELLE  
 90° BOGEN INNEN / INNEN

	7708/M6	-	5090/M6	-	-	-	6	-	50
	7708/M8	-	5090/M8	-	-	-	8	-	50
	7708/M14	-	5090/M14	-	-	-	14	-	10
	7708/M16	-	5090/M16	-	-	-	16	-	10
	7708/M18	-	5090/M18	-	-	-	18	-	10
	7708/M22	-	5090/M22	-	-	-	22	-	10
	7708/M28	-	5090/M28	-	-	-	28	-	10
	7708/M35	-	5090/M35	-	-	-	35	-	5
	7708/M42	-	5090/M42	-	-	-	42	-	5
	7708/M54	-	5090/M54	-	-	-	54	-	1

GOMITO MASCHIO / FEMMINA  
 90° MALE TO FEMALE ELBOWS - SHORT RADIUS  
 COUDES MÂLE / FEMELLE  
 90° BOGEN AUSSEN / INNEN

	7709/M16	-	5092/M16	-	16	-	16	-	10
	7709/M18	-	5092/M18	-	18	-	18	-	10
	7709/M22	-	5092/M22	-	22	-	22	-	10
	7709/M28	-	5092/M28	-	28	-	28	-	10
	7709/M35	-	5092/M35	-	35	-	35	-	5
	7709/M42	-	5092/M42	-	42	-	42	-	5
	7709/M54	-	5092/M54	-	54	-	54	-	1

CURVE A 45° FEMMINA / FEMMINA  
 45° FEMALE TO FEMALE ELBOWS  
 COURBES À 45° FEMELLE / FEMELLE  
 45° BOGEN INNEN / INNEN

	-	7716/4	-	5041/4	-	-	-	1/2"	10
	7716/M16	7716/5	5041/M16	5041/5	-	-	16	-	10
	7716/M18	-	5041/M18	-	-	-	18	-	10
	-	7716/6	-	5041/6	-	-	-	3/4"	10
	7716/M22	-	5041/M22	-	-	-	22	-	10
	-	7716/7	-	5041/7	-	-	-	78"	10
	7716/M28	-	5041/M28	-	-	-	28	-	10
	7716/M35	7716/11	5041/M35	5041/11	-	-	35	1.3/8"	5
	-	7716/13	-	5041/13	-	-	-	1.5/8"	5
	7716/M54	7716/17	5041/M54	5041/17	-	-	54	2.1/8"	1
	-	7716/21	-	5041/21	-	-	-	2.5/8"	1
	7716/M80	-	5041/M80	-	-	-	80	-	1

CURVE A 45° MASCHIO / FEMMINA  
 45° MALE TO FEMALE ELBOWS  
 COURBES À 45° MÂLE / FEMELLE  
 45° BOGEN AUSSEN / INNEN

	-	7717/4	-	5040/4	-	1/2"	-	1/2"	10
	-	7717/6	-	5040/6	-	3/4"	-	3/4"	10
	7717/M22	-	5040/M22	-	22	-	22	-	10
	-	7717/7	-	5040/7	-	78"	-	78"	10
	7717/M28	-	5040/M28	-	28	-	28	-	10
	7717/M35	7717/11	5040/M35	5040/11	35	1.3/8"	35	1.3/8"	5
	-	7717/13	-	5040/13	-	1.5/8"	-	1.5/8"	5
	7717/M42	-	5040/M42	-	42	-	42	-	5
	7717/M54	-	5040/M54	-	54	-	54	-	1
	-	7717/21	-	5040/21	-	2.5/8"	-	2.5/8"	1
	7717/M80	-	5040/M80	-	80	-	80	-	1

**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr		Codice internazionale International code Code international Internationaler code		Attacchi Connections Raccords Anschlüsse				Confezione n° pezzi Package pcs Emballage Verpackung
	[mm]	[in]	[mm]	[in]	IDS		ODS		
					Ø [mm]	Ø [in]	Ø [mm]	Ø [in]	

CURVE A 90° FEMMINA / FEMMINA  
 90° FEMALE TO FEMALE ELBOWS - LONG RADIUS  
 COURBES À 90° FEMELLE / FEMELLE  
 90° BOGEN INNEN / INNEN

	-	7718/3	-	5002/3	-	-	-	3/8"	10
	7718/M10	-	5002/M10	-	-	-	10	-	10
	7718/M12	-	5002/M12	-	-	-	12	-	10
	-	7718/4	-	7718/4	-	-	-	1/2"	10
	7718/M14	-	5002/M14	-	-	-	14	-	10
	7718/M16	7718/5	5002/M16	7718/5	-	-	16	5/8"	10
	7718/M18	-	5002/M18	-	-	-	18	-	10
	-	7718/6	-	5002/6	-	-	-	3/4"	10
	7718/M22	-	5002/M22	-	-	-	22	-	10
	-	7718/7	-	5002/7	-	-	-	7/8"	10
	7718/M28	-	5002/M28	-	-	-	28	-	10
	-	7718/9	-	5002/9	-	-	-	1.1/8"	10
	7718/M35	7718/11	5002/M35	5002/11	-	-	35	1.3/8"	5
	-	7718/13	-	5002/13	-	-	-	1.5/8"	5
	7718/M42	-	5002/M42	-	-	-	42	-	5
	7718/M54	7718/17	5002/M54	5002/17	-	-	54	2.1/8"	1
	7718/M64	-	5002/M64	-	-	-	64	-	1
	-	7718/21	-	5002/21	-	-	-	2.5/8"	1
	7718/M67	-	5002/M67	-	-	-	67	-	1
	7718/M76	-	5002/M76	-	-	-	76	-	1
-	7718/25	-	5002/25	-	-	-	3.1/8"	1	
7718/M80	-	5002/M80	-	-	-	80	-	1	
7718/M89	-	5002/M89	-	-	-	89	-	1	

CURVE A 90° MASCHIO / FEMMINA  
 90° MALE TO FEMALE ELBOWS - LONG RADIUS  
 COURBES A 90° MÂLE / FEMELLE  
 90° BOGEN AUSSEN / INNEN

	-	7719/3	-	5001/3	-	3/8"	-	3/8"	10
	7719/M12	-	5001/M12	-	12	-	12	-	10
	-	7719/4	-	5001/4	-	1/2"	-	1/2"	10
	7719/M14	-	5001/M14	-	14	-	14	-	10
	7719/M16	7719/5	5001/M16	5001/5	16	5/8"	16	5/8"	10
	7719/M18	-	5001/M18	-	18	-	18	-	10
	-	7719/6	-	5001/6	-	3/4"	-	3/4"	10
	7719/M22	-	5001/M22	-	22	-	22	-	10
	-	7719/7	-	5001/7	-	7/8"	-	7/8"	10
	7719/M28	-	5001/M28	-	28	-	28	-	10
	-	7719/9	-	5001/9	-	1.1/8"	-	1.1/8"	10
	7719/M35	7719/11	5001/M35	5001/11	35	1.1/8"	35	1.1/8"	5
	-	7719/13	-	5001/13	-	1.5/8"	-	1.5/8"	5
	7719/M42	-	5001/M42	-	42	-	42	-	5
	7719/M54	7719/17	5001/M54	5001/17	54	2.1/8"	54	2.1/8"	1
	7719/M64	-	5001/M64	-	64	-	64	-	1
	-	7719/21	-	5001/21	-	2.5/8"	-	2.5/8"	1
	7719/M67	-	5001/M67	-	67	-	67	-	1
	7719/M76	-	5001/M76	-	76	-	76	-	1
	-	7719/25	-	5001/25	-	3.1/8"	-	3.1/8"	1
7719/M80	-	5001/M80	-	80	-	80	-	1	

**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr		Codice internazionale International code Code international Internationaler code		Attacchi Connections Raccords Anschlüsse						Confezione n° pezzi Package pcs Emballage Verpackung
	ODS										
	[mm]	[in]	[mm]	[in]	Ø [mm]	Ø [mm]	Ø [mm]	Ø [in]	Ø [in]	Ø [in]	

TEE  
TEES  
TEE  
T-STÜCK

	7732/M6	-	5130/M6	-	6	-	-	-	-	-	10
	-	7732/2	-	5130/2	-	-	-	1/4"	-	-	10
	7732/M8	-	5130/M8	-	8	-	-	-	-	-	10
	-	7732/3	-	5130/3	-	-	-	3/8"	-	-	10
	7732/M10	-	5130/M10	-	10	-	-	-	-	-	10
	7732/M12	-	5130/M12	-	12	-	-	-	-	-	10
	-	7732/4	-	5130/4	-	-	-	1/2"	-	-	10
	7732/M14	-	5130/M14	-	14	-	-	-	-	-	10
	7732/M16	7732/5	5130/M16	5130/5	16	-	-	5/8"	-	-	10
	7732/M18	-	5130/M18	-	18	-	-	-	-	-	10
	-	7732/6	-	5130/6	-	-	-	3/4"	-	-	10
	7732/M22	-	5130/M22	-	22	-	-	-	-	-	10
	-	7732/7	-	5130/7	-	-	-	7/8"	-	-	10
	7732/M28	-	5130/M28	-	28	-	-	-	-	-	10
	-	7732/9	-	5130/9	-	-	-	1.1/8"	-	-	10
	7732/M35	7732/11	5130/M35	5130/11	35	-	-	1.3/8"	-	-	5
	-	7732/13	-	5130/13	-	-	-	1.5/8"	-	-	5
	7732/M42	-	5130/M42	-	42	-	-	-	-	-	5
	7732/M54	7732/17	5130/M54	5130/17	54	-	-	2.1/8"	-	-	1
	7732/M64	-	5130/M64	-	64	-	-	-	-	-	1
-	7732/21	-	5130/21	-	-	-	2.5/8"	-	-	1	
7732/M67	-	5130/M67	-	67	-	-	-	-	-	1	
7732/M80	-	5130/M80	-	80	-	-	-	-	-	1	



**RACCORDI DI RAME A SILDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr		Codice internazionale International code Code international Internationaler code		Attacchi Connections Raccords Anschlüsse						Confezione n° pezzi Package pcs Emballage Verpackung
					ODS						
	[mm]	[in]	[mm]	[in]	Ø [mm]	Ø [mm]	Ø [mm]	Ø [in]	Ø [in]	Ø [in]	

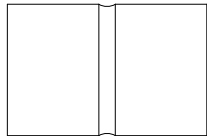
TEE RIDOTTI  
 REDUCING TEES  
 TEE RÉDUITS  
 REDUZIERTE T-STÜCK

	-	7732/232	-	5130/232	-	-	-	1/4"	3/8"	1/4"	10
	7732/M868	-	5130/M868	-	8	6	8	-	-	-	10
	7732/M8108	-	5130/M8108	-	8	10	8	-	-	-	10
	-	7732/323	-	5130/323	-	-	-	3/8"	1/4"	3/8"	10
	7732/M10610	-	5130/M10610	-	10	6	10	-	-	-	10
	7732/M1088	-	5130/M1088	-	10	8	8	-	-	-	10
	7732/M10810	-	5130/M10810	-	10	8	10	-	-	-	10
	7732/M101210	-	5130/M101210	-	10	12	10	-	-	-	10
	7732/M12812	-	5130/M12812	-	12	8	12	-	-	-	10
	7732/M121012	-	5130/M121012	-	12	10	12	-	-	-	10
	7732/M121412	-	5130/M121412	-	12	14	12	-	-	-	10
	7732/M121612	-	5130/M121612	-	12	16	12	-	-	-	10
	-	7732/434	-	5130/434	-	-	-	1/2"	3/8"	1/2"	10
	7732/M141214	-	5130/M141214	-	14	12	14	-	-	-	10
	7732/M142214	-	5130/M142214	-	14	22	14	-	-	-	10
	7732/M161216	-	5130/M161216	-	16	12	16	-	-	-	10
	7732/M161416	-	5130/M161416	-	16	14	16	-	-	-	10
	7732/M161612	-	5130/M161612	-	16	16	12	-	-	-	10
	7732/M162216	-	5130/M162216	-	16	22	16	-	-	-	10
	-	7732/545	-	5130/545	-	-	-	5/8"	1/2"	5/8"	10
	7732/M181218	-	5130/M181218	-	18	12	18	-	-	-	10
	7732/M181618	-	5130/M181618	-	18	16	18	-	-	-	10
	7732/M182218	-	5130/M182218	-	18	22	18	-	-	-	10
	7732/M221222	-	5130/M221222	-	22	12	22	-	-	-	10
	7732/M221622	-	5130/M221622	-	22	16	22	-	-	-	10
	7732/M221822	-	5130/M221822	-	22	18	22	-	-	-	10
	7732/M222822	-	5130/M222822	-	22	28	22	-	-	-	5
	7732/M282228	-	5130/M282228	-	28	22	28	-	-	-	10
	7732/M352835	-	5130/M352835	-	35	28	35	-	-	-	5
	-	7732/131113	-	5130/131113	-	-	-	1.5/8"	1.3/8"	1.5/8"	5
7732/M422242	-	5130/M422242	-	42	22	42	-	-	-	5	
7732/M422842	-	5130/M422842	-	42	28	42	-	-	-	5	
7732/M544254	-	5130/M544254	-	54	42	54	-	-	-	1	

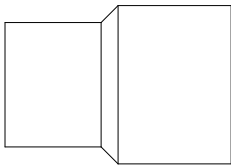
**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse				Confezione n° pezzi Package pcs Emballage Verpackung
		IDS	ODS			
		Ø [mm]	Ø [mm]			

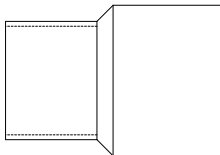
MANICOTTI FEMMINA / FEMMINA IN MILLIMETRI, SERIE RINFORZATA  
 FEMALE TO FEMALE COUPLINGS, REINFORCED SERIES (METRIC TUBING)  
 MANCHONS FEMELLE / FEMELLE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 MUFFEN INNEN / INNEN IN MILLIMETER, VERSTÄRKTE SERIE

	7900/M22	-	-	22	22	10
	7900/M28	-	-	28	28	10
	7900/M35	-	-	35	35	10
	7900/M42	-	-	42	42	5
	7900/M54	-	-	54	54	5

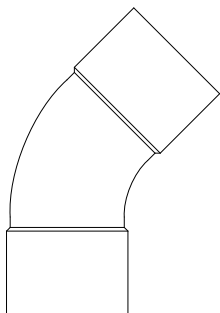
RIDUZIONI FEMMINA / FEMMINA IN MILLIMETRI, SERIE RINFORZATA  
 FEMALE TO FEMALE REDUCING COUPLINGS, REINFORCED SERIES (METRIC TUBING)  
 RÉDUCTIONS FEMELLE / FEMELLE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 REDUZIERTEILE INNEN / INNEN IN MILLIMETER, VERSTÄRKTE SERIE

	7902/M2822	-	-	28	22	10
	7902/M3522	-	-	35	22	10
	7902/M3528	-	-	35	28	10
	7902/M4228	-	-	42	28	5
	7902/M4235	-	-	42	35	5
	7902/M5435	-	-	54	35	5
	7902/M5442	-	-	54	42	5

RIDUZIONI MASCHIO / FEMMINA IN MILLIMETRI, SERIE RINFORZATA  
 MALE TO FEMALE REDUCING COUPLINGS, REINFORCED SERIES (METRIC TUBING)  
 RÉDUCTIONS MÂLE / FEMELLE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 REDIZIERTE AUSSEN / INNEN IN MILLIMETER, VERSTÄRKTE SERIE

	7903/M2822	28	-	-	22	10
	7903/M3522	35	-	-	22	10
	7903/M3528	35	-	-	28	10
	7903/M4228	42	-	-	28	5
	7903/M4235	42	-	-	35	5
	7903/M5435	54	-	-	35	5
	7903/M5442	54	-	-	42	5

CURVE A 45° FEMMINA / FEMMINA IN MILLIMETRI, SERIE RINFORZATA  
 45° FEMALE TO FEMALE ELBOWS, REINFORCED SERIES (METRIC TUBING)  
 COURBES A 45° FEMELLE / FEMELLE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 45° BOGEN INNEN / INNEN IN MILLIMETER, VERSTÄRKTE SERIE

	7916/M22	-	-	22	22	10
	7916/M28	-	-	28	28	10
	7916/M35	-	-	35	35	5
	7916/M42	-	-	42	42	5
	7916/M54	-	-	54	54	1

**RACCORDI DI RAME A SALDARE**  
**COPPER BRAZE JOINT PRESSURE FITTINGS**  
**RACCORDS A SOUDER EN CUIVRE**  
**KUPFERSCHWEISSVERBINDUNGEN**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse				Confezione n° pezzi Package pcs Emballage Verpackung
		IDS	ODS			
		Ø [mm]	Ø [mm]			

CURVE A 45° MASCHIO / FEMMINA IN MILLIMETRI, SERIE RINFORZATA  
 45° MALE TO FEMALE ELBOWS, REINFORCED SERIES ( METRIC TUBING)  
 COURBES A 45° MÂLE / FEMELLE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 45° BOGEN AUSSEN / INNEN IN MILLIMETER, VERSTÄRKTE SERIE

	7917/M22	22	-	-	22	10
	7917/M28	28	-	-	28	10
	7917/M35	35	-	-	35	5
	7917/M42	42	-	-	42	5
	7917/M54	54	-	-	54	1

CURVE A 90° FEMMINA / FEMMINA IN MILLIMETRI, SERIE RINFORZATA  
 90° FEMALE TO FEMALE ELBOWS - LONG RADIUS, REINFORCED SERIES (METRIC TUBING)  
 COURBES A 90° FEMELLE / FEMELLE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 90° BOGEN INNEN / INNEN IN MILLIMETER, VERSTÄRKTE SERIE

	7918/M22	-	-	22	22	10
	7918/M28	-	-	28	28	10
	7918/M35	-	-	35	35	5
	7918/M42	-	-	42	42	5
	7918/M54	-	-	54	54	1

CURVE A 90° MASCHIO / FEMMINA IN MILLIMETRI, SERIE RINFORZATA  
 90° MALE TO FEMALE ELBOWS - LONG RADIUS, REINFORCED SERIES ( METRIC TUBING)  
 COURBES A 90° MÂLE / FEMELLE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 90° BOGEN AUSSEN / INNEN IN MILLIMETER, VERSTÄRKTE SERIE

	7919/M22	22	-	-	22	10
	7919/M28	28	-	-	28	10
	7919/M35	35	-	-	35	5
	7919/M42	42	-	-	42	5
	7919/M54	54	-	-	54	1

TEE IN MILLIMETRI, SERIE RINFORZATA  
 TEES, REINFORCED SERIES (METRIC TUBING)  
 TEE EN MILLIMÈTRES, SÉRIE RENFORCÉE  
 T-STÜCK IN MILLIMETER, VERSTÄRKTE SERIE

	7932/M22	-	22	22	22	10
	7932/M28	-	28	28	28	10
	7932/M35	-	35	35	35	5
	7932/M42	-	42	42	42	5
	7932/M54	-	54	54	54	1

**ATTACCHI DI CARICA**  
**ACCESS FITTINGS**  
**RACCORDS DE CHARGE**  
**SCHRADERVENTILE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse										PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare			NPT	ODS		IDS					
		Ventileinsatz Meccanismo Valve core Mécanisme	m	f		Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]	L [mm]			

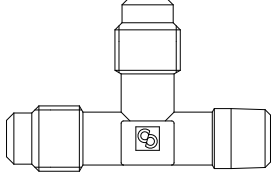
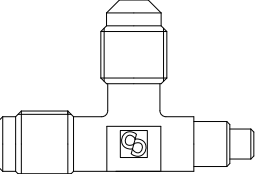
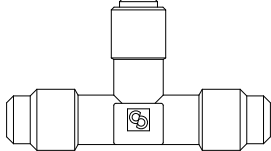
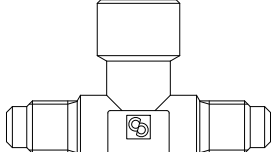
**ATTACCHI DI CARICA DRITTI**  
**STRAIGHT ACCESS FITTINGS**  
**RACCORDS DE CHARGE DROITS**  
**AUFRECHTE BESCHICKUNGSANSCHLÜSSE**

	8350/22	1/4"	-	-	-	1/4"	-	3/8"	-	-	45	100
	8350/X10	1/4"	-	-	-	1/4"	-	-	10	-		
	8350/X01	1/4"	-	-	-	-	6	-	-	-	45	100
	8350/X03	1/4"	-	-	-	-	-	-	6	90	45	100
	8350/X06	1/4"	-	-	-	-	-	1/4"	-	126		
	8350/X07	1/4"	-	-	-	-	-	1/4"	-	326		
	8350/X12	1/4"	-	-	-	-	-	-	6	180		
	8350/X09	5/16"	-	-	-	1/4"	-	-	-	-	45	100
	8351/2	1/4"	-	-	-	-	6	-	8 - 10	-	45	100
	8351/X04	1/4"	-	-	-	-	-	-	6	-		
	8351/X05	5/16"	-	-	-	-	-	3/8"	7	-		
	8351/X07	5/16"	-	-	-	-	-	3/8"	6	-		
	8351/X01	1/4"	-	-	-	-	1/8"	-	6	-	45	100
	8351/X02	1/4"	-	-	-	-	5	1/4" 5/16" 3/8"	-	-		
	8351/X06	1/4"	-	-	-	-	-	-	6 - 8 - 10	-		
	8352/22	1/4"	1/4"	-	-	-	-	-	-	-	45	100
	8354/21	1/4"	-	-	1/8"	-	-	-	-	-	45	100
	8354/22	1/4"	-	-	1/4"	-	-	-	-	-		
	8354/23	1/4"	-	-	3/8"	-	-	-	-	-		
	8362/22	1/4"	-	1/4"	-	-	-	-	-	-	45	100

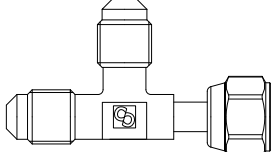
**ATTACCHI DI CARICA**  
**ACCESS FITTINGS**  
**RACCORD D'INTERVENTION**  
**SCHRADERVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse					PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare		NPT	IDS			
		m	f		Ø [in.]	Ø [mm]		

ATTACCHI DI CARICA A TEE  
 TEE ACCESS FITTINGS  
 RACCORDS DE CHARGEMENT EN TEE  
 T-STÜCK - FULLANSCHLÜSS

	8380/122	1/4"	-	1/8"	-	-	45	100
	8380/222	1/4"	-	1/4"	-	-		
	8380/X01	1/4"	-	-	-	6	45	100
	8380/X02	1/4"	-	-	-	7	45	100
	8380/X09	1/4"	1/4"				45	100

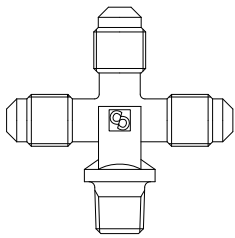
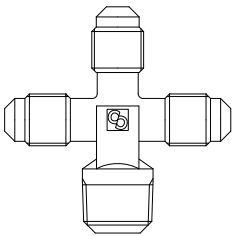
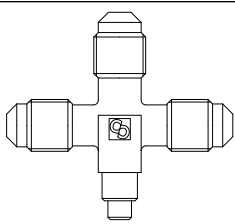
ATTACCHI DI CARICA A TEE CON BOCCHETTONE GIREVOLE  
 TEE ACCESS FITTINGS WITH SWIVEL NUTS  
 RACCORDS DE CHARGE EN TEE AVEC RACCORD PIVOTANT  
 T-STÜCK - FULLANSCHLÜSS MIT DREHBARER MUTTER

	8380/X06	1/4"	1/4"	-	-	-	45	10
	8380/X08	1/4"	1/4"	-	-	-		

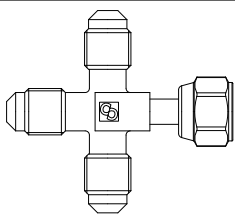
**ATTACCHI DI CARICA**  
**ACCESS FITTINGS**  
**RACCORD D'INTERVENTION**  
**SCHRADERVENTILE**

Disegno Drawing Dessin Zeichnung	N° catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse					PS [bar]	Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare		NPT	IDS			
		m	f		Ø [in.]	Ø [mm]		

**ATTACCHI DI CARICA A CROCE**  
**CROSS ACCESS FITTINGS**  
**RACCORDS DE CHARGE EN CROIX**  
**KREUZFÜLLANSCHLUSS**

	8382/1222	1/4"	-	1/8"	-	-	45	50
	8382/X02	1/4"	-	1/4"	-	-	45	50
	8382/X01	1/4"	-	-	-	7-10	45	100
	8382/X03	1/4"	-	-	-	6		100

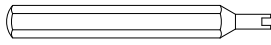
**ATTACCHI DI CARICA A CROCE CON BOCCHETTONE GIREVOLE**  
**CROSS ACCESS FITTINGS WITH SWIVEL NUT**  
**RACCORDS DE CHARGE EN CROIX AVEC RACCORD PIVOTANT**  
**KREUZFÜLLANSCHLUSS MIT DREHBAREM STUTZEN**

	8382/X04	1/4"	1/4"	-	-	-	45	10
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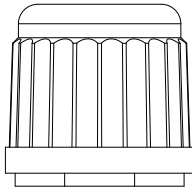
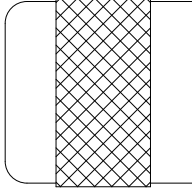
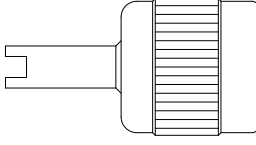
**ATTACCHI DI CARICA**  
**ACCESS FITTINGS**  
**RACCORD D'INTERVENTION**  
**SCHRADERVENTILE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		P statica [bar] Static P [bar] P Statique [bar] Statischer druck [bar]	P di lavoro [bar] Working P [bar] P Fonctionnement [bar] Betriebsdruck [bar]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare					min	max	
		m	f						

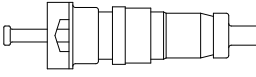
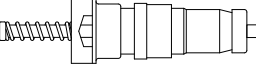
CHIAVE MONTAGGIO MECCANISMO VALVOLA  
 CORE REMOVER (FOR ALL TYPES)  
 CLÉ MONTAGE MÉCANISME APPAREIL DE ROBINETTERIE  
 SCHLÜSSEL F. SCHRADERVENTIL-MONTAGE

	8390/A	-	-	-	-	-	-	-	10
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CAPPUCCI  
 CAPS WITH GASKET  
 CAPUCHONS  
 KAPPEN

	8391/A	-	1/4"	-	-	35	-	-	100
	8392/A	-	1/4"	-	-	45	-	-	100
	8392/B (1)	-	1/4"	-	-	45	-	-	100

MECCANISMI VALVOLA  
 SPARE VALVE CORES  
 MÉCANISMES  
 VENTILEINSATZ

	8394/B (2)	-	-	40	28	-	-30	+90	100
	8395/A1 (3)	-	-	140	60	-	-40	+100	100
	8395/A2 (3)(4)	-	-	140	60	-	-35	+150	100

Note:

(1) La chiave serve per il montaggio del meccanismo.  
 (2) Molla interna  
 (3) Molla esterna  
 (4) Non impiegare con R22

(1) The key needs to remove the valve core  
 (2) Inside spring  
 (3) Outside spring  
 (4) No use with R22

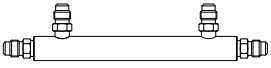

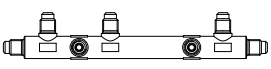
(1) La clé sert pour le montage du mécanisme  
 (2) Ressort intérieur  
 (3) Ressort extérieur  
 (4) Incompatible avec R22

(1) Der schlüssel dient zur montage des ventileinsatz  
 (2) Innenfeder  
 (3) Aussenfeder  
 (4) Nicht mit R22 verwendbar

**ATTACCHI DI CARICA**  
**ACCESS FITTINGS**  
**RACCORD D'INTERVENTION**  
**SCHRADERVENTILE**

Disegno Drawing Dessin Zeichnung	Nr. Catalogo Part number N° Catalogue Katalog Nr	Attacchi Connections Raccords Anschlüsse		P statica [bar] Static P [bar] P Statique [bar] Statischer druck [bar]	P di lavoro [bar] Working P [bar] P Fonctionnement [bar] Betriebsdruck [bar]	PS [bar]	TS [°C]		Confezione n° pezzi Package pcs Emballage Verpackung
		SAE Flare					min	max	
		m	f						

COLLETTORI CON ATTACCHI DI CARICA  
 MANIFOLDS WITH ACCESS FITTINGS  
 COLLECTEURS AVEC RACCORDS DE CHARGE  
 VERTEILER MIT FÜLLANSCHLÜSSEN

	9900/X47	1/4"	-	-	-	45	-	-	1
	9900/X87	1/4"	-	-	-	45	-	-	1
	9900/X81	1/4"	-	-	-	45	-	-	1



Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER VALVOLE SOLENOIDI

008217	Ghiera gialla per fissaggio bobina	Tutte le valvole solenoidi	
008218	Vite nera per fissaggio bobina	Tutte le valvole solenoidi	
008229	O-R ghiera gialla	Tutte le valvole solenoidi	
004238	O-R sotto bobina	Tutte le valvole solenoidi	
G9150/R06	Squadretta	Valvole solenoidi N.C. e N.O. tipo: 1020/.. ; 1028/.. 1064/.. ; 1068/.. 1070/4 - /5 ; 1078/4 - /5 - /M12 ; 1079/7 1164/.. ; 1168/.. 1170/4 - /5 ; 1178/4 - /5 - /M12 1512/.. ; 1522/.. ; 1132/03 - /04	
	Vite		
9150/R07	Sottogruppo nucleo	Valvole solenoidi N.C. tipo: 1020/.. ; 1028/..	
	Molla nucleo		
	O-R ghiera/corpo		
9150/R08	Sottogruppo nucleo	Valvole solenoidi N.C. tipo: 1064/.. ; 1068/.. 1098/9 ; 1099/11 1078/11 ; 1079/13 - /M42	Ricambio servocomando pilota a membrana per: 1098/9 ; 1099/11 1078/11 ; 1079/13 - /M42
	Molla nucleo		
	Sottogruppo membrana		
	O-R ghiera/corpo		
9150/R09	Sottogruppo nucleo	Valvole solenoidi N.C. tipo: 1070/4 - /5 ; 1078/4 - /5 - /M12 ; 1079/7	
	Molla nucleo		
	Sottogruppo membrana		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R10	Sottogruppo nucleo	Valvole solenoidi N.C. tipo: 1070/6 ; 1078/6 - /7 ; 1079/9	Prodotti fuori produzione
	Molla nucleo		
	Sottogruppo membrana		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9151/R04	Sottogruppo nucleo	Valvole solenoidi N.C. tipo: 1090/5 - /6 ; 1098/5 - /6 - /7 ; 1099/9	
	Molla nucleo		
	Sottogruppo membrana		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R50	Sottogruppo nucleo	Valvole solenoidi N.C. tipo: 1050/5 - /6 ; 1058/5 - /6 - /7 ; 1059/9	
	Molla nucleo		
	Sottogruppo pistone		
	Sottogruppo fascia elastica		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R11	Sottogruppo nucleo	Valvole solenoidi N.C. tipo: 1078/9 ; 1079/11	
	Molla nucleo		
	Sottogruppo membrana		
	O-R tappo/corpo		
	O-R pilota		
	O-R ghiera/tappo		
	Viti fissaggio tappo/corpo		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER VALVOLE SOLENOIDI

9150/R43	Sottogruppo pistone	Valvole solenoidi N.C.e N.O. tipo: 1098/9 ; 1099/11 1198/9	Ricambio servocomando principale a pistone
	Sottogruppo fascia elastica		
	Molla pistone		
	O-R tappo/corpo		
	O-R pilota nuovo		
	O-R pilota vecchio		
	Viti fissaggio tappo/corpo		
9150/R39	Sottogruppo pistone	Valvole solenoidi N.C.e N.O. tipo: 1078/11 ; 1079/13 - /M42 1178/11	Ricambio servocomando principale a pistone
	Sottogruppo fascia elastica		
	Molla pistone		
	O-R tappo/corpo		
	O-R pilota nuovo		
	O-R pilota vecchio		
	Viti fissaggio tappo/corpo		
9150/R35	Operatore N.O. premontato	Valvole solenoidi N.O. tipo: 1164/.. ; 1168/.. 1198/9 1178/11	Ricambio servocomando pilota a membrana per: 1198/9 1178/11
	Sottogruppo membrana		
	O-R ghiera/corpo		
	O-R sotto bobina		
9150/R34	Sottogruppo canotto N.O.	Valvole solenoidi N.O. tipo: 1170/4- /5 ; 1178/4 - /5 - /M12	
	Sottogruppo membrana		
	O-R tappo/corpo		
	O-R ghiera/tappo		
	O-R sotto bobina		
	Viti fissaggio tappo/corpo		
	Ghiera		
9151/R05	Sottogruppo canotto N.O.	Valvole solenoidi N.O. tipo: 1190/5 - /6 ; 1198/5 - /6 - /7	
	Sottogruppo membrana		
	O-R tappo/corpo		
	O-R ghiera/tappo		
	O-R sotto bobina		
	Viti fissaggio tappo/corpo		
	Ghiera		
9150/R51	Sottogruppo canotto N.O.	Valvole solenoidi N.O. tipo: 1150/5 - /6 ; 1158/5 - /6 - /7	
	Sottogruppo pistone		
	Sottogruppo fascia elastica		
	O-R tappo/corpo		
	O-R ghiera/tappo		
	O-R sotto bobina		
	Viti fissaggio tappo/corpo		
Ghiera			
9150/R42	Sottogruppo canotto N.O.	Valvole solenoidi N.O. tipo: 1178/9	
	Sottogruppo membrana		
	O-R tappo/corpo		
	O-R pilota		
	O-R ghiera/tappo		
	O-R sotto bobina		
	Viti fissaggio tappo/corpo		
	Ghiera		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER VALVOLE SOLENOIDI

9150/R15	Sottogruppo nucleo	Valvole solenoidi per fluidi vari tipo: 1512/.. 1522/..	
	Molla nucleo		
	O-R ghiera/corpo		
9150/R12	Sottogruppo nucleo	Valvole solenoidi per fluidi vari tipo: 1132/03 - /04	
	Molla nucleo		
	Sottogruppo membrana		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R13	Sottogruppo nucleo	Valvole solenoidi per fluidi vari tipo: 1132/06 - /08	
	Molla nucleo		
	Sottogruppo membrana		
	Viti fissaggio tappo/corpo		
9150/R14	Sottogruppo nucleo	Valvole solenoidi per fluidi vari tipo: 1142/010 - /012	
	Molla nucleo		
	Sottogruppo membrana		
	N° 2 O-R pilota		
	O-R ghiera/tappo		
	Viti fissaggio tappo/corpo		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER VALVOLE DI RITEGNO

9150/R16	Sottogruppo pistone	Valvole di ritegno tipo: 3120/7 - /9 - /M22 - /M28 3140/7 - /9 - /M28 3180/7 - /9 - /M28	Prodotti fuori produzione
	Molla		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R17	Sottogruppo pistone	Valvole di ritegno tipo: 3120/11 3140/11 3180/11	Prodotti fuori produzione
	Molla		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R18	Sottogruppo pistone	Valvole di ritegno tipo: 3120/13 - /M42 3140/13 - /M42	Prodotti fuori produzione
	Molla		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R19	Sottogruppo pistone	Valvole di ritegno tipo: 3120/17 3140/17 - /21 - /25 3160/17 3180/13 - /M42 - /17	Prodotti fuori produzione
	Molla		
	O-R tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R52	Sottogruppo pistone	Valvole di ritegno tipo: 3122/7 - /9 - /M22 - /M28 3142/7 - /9 - /M28 3182/7 - /9 - /M28	
	Molla		
	Guarnizione tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R53	Sottogruppo pistone	Valvole di ritegno tipo: 3122/11 3142/11 3182/11	
	Molla		
	Guarnizione tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R54	Sottogruppo pistone	Valvole di ritegno tipo: 3122/13 - /M42 3142/13 - /M42	
	Molla		
	Guarnizione tappo/corpo		
	Viti fissaggio tappo/corpo		
9150/R55	Sottogruppo pistone	Valvole di ritegno tipo: 3122/17 3142/17 - /21 - /25 3182/13 - /M42 - /17	
	Molla		
	Guarnizione tappo/corpo		
	Viti fissaggio tappo/corpo		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER INDICATORI

9150/R20	Sottogruppo ghiera	Indicatori di liquido tipo: 3610/.. ; 3620/.. ; 3640/.. ; 3650/..	3610/.. ; 3640/.. ; 3650/.. Prodotti fuori produzione
	Cappuccio di protezione		
	O-R ghiera/corpo		
9150/R21	Sottogruppo ghiera	Indicatori di liquido e umidità tipo: 3710/.. ; 3720/.. ; 3740/.. ; 3750/.. 3770/.. ; 3771/.. ; 3780/.. ; 3781/..	3710/.. ; 3740/.. ; 3750/.. Prodotti fuori produzione
	Cappuccio di protezione		
	O-R ghiera/corpo		

RICAMBI PER FILTRI

G9150/R05	Attacco di carica	Filtri a cartuccia ricambiabile tipo: 4411/.. ; 4412/.. ; 4413/.. ; 4414/.. 4421/.. ; 4423/.. ; 4424/..	
	Cappuccio		
	Meccanismo molla interna		
003319	Molla	Tutti i filtri serie 44	
003322	Guarnizione controflangia	Filtri a cartuccia ricambiabile tipo: 4411/.. ; 4412/.. ; 4413/.. ; 4414/..	
009406	Coperchio per solid core	Filtri a cartuccia ricambiabile tipo: 4411/..A-B-AF ; 4412/..A-B-AF ; 4413/..A-B-AF ; 4414/..A-B-AF	
003324	Fondello per solid core		
007677	Tubo filtrante per un solid core		
9150/R57	Coperchio per cartuccia meccanica	Filtri a cartuccia ricambiabile tipo: 4411/..C	
	Fondello per cartuccia meccanica		
008336	Guarnizione controflangia	Filtri a cartuccia ricambiabile tipo: 4421/.. ; 4423/.. ; 4424/..	
008304	Coperchio per solid core	Filtri a cartuccia ricambiabile tipo: 4421/..A ; 4423/..A ; 4424/..A	
008305	Fondello per solid core		
008307	Vite per solid core		
008403	Tubo filtrante per solid core	Filtri a cartuccia ricam.tipo 4421/..A	
008345	Tubo filtrante per solid core	Filtri a cartuccia ricam.tipo 4423/..A	
008344	Tubo filtrante per solid core	Filtri a cartuccia ricam.tipo 4424/..A	
9150/R58	Coperchio per cartuccia meccanica	Filtri a cartuccia ricambiabile tipo: 4421/..C	
	Fondello per cartuccia meccanica		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER RUBINETTI DI SCAMBIO

9150/R24	Premistoppa	Rubinetti di scambio 3032/44 ; /64 ; / 66	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
9150/R25	Premistoppa	Rubinetto di scambio 3032/108	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
3039/4	N° 2 attacchi 1/2"NPT femmina	Rubinetto di scambio 3032/44	
004260	O-R attacco/corpo		
009036	Cappello		
008281	Cappello		

RICAMBI PER RUBINETTI D'INTERCETTAZIONE

009035	Cappello forato	Rubinetti d'intercettazione 3033/..	
009256	Cappello forato	Rubinetto d'intercettazione 3063/44	

RICAMBI PER RUBINETTI PER SISTEMI FRIGORIFERI ERMETICI

9150/R23	Premistoppa	Tutti i rubinetti ermetici tipo: 6010/.. ; 6012/.. ; 6020/.. ; 6060/.. ; 6070/..	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
007486	Cappello		
000913	Asta	Rubinetti ermetici tipo 6010/2 ; 6012/22	
G9150/R33	Vite	Rubinetti ermetici tipo 6020/..	
	Rosetta		

RICAMBI PER RUBINETTI PER SERBATOI

9150/R23	Premistoppa	Rubinetti per serbatoio tipo: 6110/21 - /22 - /23 - /32 - /33 6120/22 - /23 - /33 6132/.. 6140/22 - /23	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
007486	Cappello		
000913	Asta	Rubinetti per serbatoio tipo: 6110/21 - /22 ; 6120/22 ; 6140/22 - /23	
001641	Asta	Rubinetti per serbatoio tipo: 6110/23 - /32 - /33 ; 6120/23 - /33	
9150/R24	Premistoppa	Rubinetti per serbatoio tipo: 6110/43 - /44 - /54 6120/43 - /44 - /54	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
009036	Cappello		
001647	Asta		
9150/R25	Premistoppa	"Rubinetti per serbatoio tipo: 6110/66 6120/66"	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
008282	Cappello		
001038	Asta		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER RUBINETTI PER CONDIZIONATORI SPLIT

9150/R26	Premistoppa	Rubinetti per condizionatori split tipo: 6170/66 - /77	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		

RICAMBI PER RUBINETTI ROTALOCK

9150/R23	Premistoppa	Rubinetti rotalock tipo: 6310/.. 6320/..	Da ordinare separatamente
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
7910/6	Raccordo a saldare in acciaio 3/4" UNF-16		
7990/6	Guarnizioni in PTFE per 7910/6		
7910/8	Raccordo a saldare in acciaio 1" UNS-16		
7990/8	Guarnizioni in PTFE per 7910/8		

RICAMBI PER RUBINETTI A CAPPELLOTTO

9150/R23	Premistoppa	Rubinetti a cappello tipo: 6410/.. ; 6420/.. ; 6460/..	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
007486	Cappello		
002337	Asta	Rubinetti a cappello tipo: 6410/2 - /3 - /4 - /5 6420/2 - /3 - /M10 - /M12 - /4 - /5 6460/22A.	
005174	O-R nippo/corpo		
007619	Asta	Rubinetti a cappello tipo: 6410/6 6420/M18 - /6 - /M22 - /7	
007676	O-R nippo/corpo		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER RUBINETTI A GLOBO

9150/R24	Premistoppa	Rubinetti a globo tipo: (1) 6510/M22 - /7 - /M28 - /9 - /11 6512/M22 - /7 - /M28 - /9 - /11 (1) 6520/7 - /9 - /11 (1) 6530/M22 - /7 - /M28 - /9 - /11 6532/M22 - /7 - /M28 - /9 - /11	(1) prodotti fuori produzione
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
001635	Cappello		
004296	Guarnizione cappello		
9150/R27	Sottogruppo asta/piattello	Rubinetti a globo tipo: (1) 6510/M22 - /7 - /M28 - /9 6512/M22 - /7 - /M28 - /9 (1) 6520/7 - /9 (1) 6530/M22 - /7 - /M28 - /9 6532/M22 - /7 - /M28 - /9	
004299	Viti fissaggio tappo/corpo		
004251	O-R tappo/corpo	Rubinetti a globo tipo: (1) 6510/M22 - /7 - /M28 - /9 (1) 6520/7 - /9 (1) 6530/M22 - /7 - /M28 - /9	
008863	Guarnizione tappo/corpo	Rubinetti a globo tipo: 6512/M22 - /7 - /M28 - /9 6532/M22 - /7 - /M28 - /9	
9150/R28	Sottogruppo asta/piattello	Rubinetti a globo tipo: (1) 6510/11 6512/11 (1) 6520/11 (1) 6530/11 6532/11	
004692	Viti fissaggio tappo/corpo		
004691	O-R tappo/corpo	Rubinetti a globo tipo: (1) 6510/11 (1) 6520/11 (1) 6530/11	
009174	Guarnizione tappo/corpo	Rubinetto a globo tipo: 6512/11 6532/11	
9150/R26	Premistoppa	Rubinetti a globo tipo: (1) 6510/13 - /M42 - /17 6512/13 - /M42 - /17 (1) 6520/13 - /M42 - /17 (1) 6530/13 - /M42 - /17 6532/13 - /M42 - /17	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		
001228	Cappello		
000830	Guarnizione cappello		
004302	Viti fissaggio tappo/corpo		
9150/R29	Sottogruppo asta/piattello	Rubinetti a globo tipo: (1) 6510/13 - /M42 6512/13 - /M42 (1) 6520/13 - /M42	
008002	O-R tappo/corpo	Rubinetti a globo tipo: (1) 6510/13 - /M42 (1) 6520/13 - /M42	
009175	Guarnizione tappo/corpo	Rubinetti a globo tipo: 6512/13 - /M42	



Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER RUBINETTI A GLOBO

9150/R30	Sottogruppo asta/piattello	Rubineti a globo tipo: (1) 6510/17 6512/17 (1) 6520/17 (1) 6530/13 - /M42 - /17 6532/13 - /M42 - /17	
004261	O-R tappo/corpo	Rubineti a globo tipo: (1) 6510/17 (1) 6520/17 (1) 6530/13 - /M42 - /17	(1) prodotti fuori produzione
009176	Guarnizione tappo/corpo	Rubineti a globo tipo: 6512/17 6532/13 - /M42 - /17	

RICAMBI PER RUBINETTI A SFERA

009055	Cappello di plastica	Rubineti a sfera tipo: 6590/M6 - /2 - /3 - /3A - /M10 - /M10A - /M12 - /M12A - /4 - /4A 6591/5 6590/M15 - M15A - 5 - /5A - /M18 - /M18A - /6 - /6A 6591/7	
009750	Cappello d'ottone		
003752	Guarnizione per cappello d'ottone		
009036	Cappello di plastica	Rubineti a sfera tipo: 6590/7 - /7A 6591/M28 - /9 6590/M28 - /M28A - /9 - /9A 6591/11	
009751	Cappello d'ottone		
004296	Guarnizione per cappello d'ottone		
009037	Cappello di plastica	Rubineti a sfera tipo: 6590/11 - /11A 6591/13 - /M42 6590/13 - /13A - /M42 - /M42A 6591/17	
009752	Cappello d'ottone		
000530	Guarnizione per cappello d'ottone		
009038	Cappello di plastica	Rubineti a sfera tipo: 6590/17 - /17A 6591/21 - /21A 6591/M64 - /M64A	
009753	Cappello d'ottone		
009754	Guarnizione per cappello d'ottone		
009207	Cappello d'ottone	Rubineti a sfera tipo: 6590/M64A - /21A 6591/24A - /25A 6590/25A 6591/28A - /29A - /33A - /34A	
009208	Guarnizione per cappello d'ottone		
G9150/R46	Meccanismo	Rubineti a sfera con attacco di carica	
	Cappuccio		

Numero catalogo	Descrizione	Utilizzabile per: Prodotti	Note
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RICAMBI PER RUBINETTI PER COMPRESSORI

9150/R23	Premistoppa	Rubinetti per compressori tipo 6640	prodotti fuori produzione
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		

RICAMBI PER RUBINETTI PORTAMANOMETRO

9150/R23	Premistoppa	Rubinetti portamanometri 8320/21 - /22	
	Guarnizioni premistoppa		
	Guarnizioni premistoppa		
	Ranella		

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR SOLENOID VALVES

008217	Yellow nut for fixing coil	All the solenoid valves	
008218	Black screw for fixing coil	All the solenoid valves	
008229	O Ring for yellow nut	All the solenoid valves	
004238	O Ring under coil	All the solenoid valves	
G9150/R06	Bracket	N.C.and N.O. solenoid valves type: 1020/.. ; 1028/.. 1064/.. ; 1068/.. 1070/4 - /5 ; 1078/4 - /5 - /M12 ; 1079/7 1164/.. ; 1168/.. 1170/4 - /5 ; 1178/4 - /5 - /M12 1512/.. ; 1522/.. ; 1132/03 - /04	
	Screw		
9150/R07	Plunger	N.C. solenoid valves type: 1020/.. ; 1028/..	
	Plunger spring		
	Nut/body O Ring		
9150/R08	Plunger	N.C. solenoid valves type: 1064/.. ; 1068/.. 1098/9 ; 1099/11 1078/11 ; 1079/13 - /M42	Diaphragm pilot operated spare parts for: 1098/9 ; 1099/11 1078/11 ; 1079/13 - /M42
	Plunger spring		
	Diaphragm		
	Nut/body O Ring		
9150/R09	Plunger	N.C. solenoid valves type: 1070/4 - /5 ; 1078/4 - /5 - /M12 ; 1079/7	
	Plunger spring		
	Diaphragm		
	Cover/body O Ring		
	Cover/body screws		
9150/R10	Plunger	N.C. solenoid valves type: 1070/6 ; 1078/6 - /7 ; 1079/9	Valves out of stock
	Plunger spring		
	Diaphragm		
	Cover/body O Ring		
	Cover/body screws		
9151/R04	Plunger	N.C. solenoid valves type: 1090/5 - /6 ; 1098/5 - /6 - /7 ; 1099/9	
	Plunger spring		
	Diaphragm		
	Cover/body O Ring		
	Cover/body screws		
9150/R50	Plunger	N.C. solenoid valves type: 1050/5 - /6 ; 1058/5 - /6 - /7 ; 1059/9	
	Plunger spring		
	Piston		
	Piston ring		
	Cover/body O Ring		
	Cover/body screws		
9150/R11	Plunger	N.C. solenoid valves type: 1078/9 ; 1079/11	
	Plunger spring		
	Diaphragm		
	Cover/body O Ring		
	Pilot O Ring		
	Nut/cover O Ring		
	Cover/body screws		

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR SOLENOID VALVES

9150/R43	Piston	N.C.and N.O. solenoid valves type: 1098/9 ; 1099/11 1198/9	Main piston pilot operated spare parts
	Piston ring		
	Piston spring		
	Cover/body O Ring		
	New pilot O Ring		
	Old pilot O Ring		
	Cover/body screws		
9150/R39	Piston	N.C.and N.O. solenoid valves type: 1078/11 ; 1079/13 - /M42 1178/11	Main piston pilot operated spare parts
	Piston ring		
	Piston spring		
	Cover/body O Ring		
	New pilot O Ring		
	Old pilot O Ring		
	Cover/body screws		
9150/R35	Pre-assembled armature with nuts	N.O. solenoid valves type: 1164/.. ; 1168/.. 1198/9 1178/11	Diaphragm pilot operated spare parts for: 1198/9 1178/11
	Diaphragm		
	Nut/body O Ring		
	O Ring under coil		
9150/R34	N.O. armature group	N.O. solenoid valves type: 1170/4 - /5 ; 1178/4 - /5 - /M12	
	Diaphragm		
	Cover/body O Ring		
	Nut/cover O Ring		
	O Ring under coil		
	Cover/body screws		
	Nut		
9151/R05	N.O. armature group	N.O. solenoid valves type: 1190/5 - /6 ; 1198/5 - /6 - /7	
	Diaphragm		
	Cover/body O Ring		
	Nut/cover O Ring		
	O Ring under coil		
	Cover/body screws		
	Nut		
9150/R51	N.O. armature group	N.O. solenoid valves type: 1150/5 - /6 ; 1158/5 - /6 - /7	
	Piston		
	Piston ring		
	Cover/body O Ring		
	Nut/cover O Ring		
	O Ring under coil		
	Cover/body screws		
Nut			
9150/R42	N.O. armature group	N.O. solenoid valves type: 1178/9	
	Diaphragm		
	Cover/body O Ring		
	Pilot O Ring		
	Nut/cover O Ring		
	O Ring under coil		
	Cover/body screws		
Nut			

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR SOLENOID VALVES

9150/R15	Plunger	Solenoid valves for different fluids type: 1512/.. 1522/..	
	Plunger spring		
	Nut/body O Ring		
9150/R12	Plunger	Solenoid valves for different fluids type: 1132/03 - /04	
	Plunger spring		
	Diaphragm		
	Cover/body O Ring		
	Cover/body screws		
9150/R13	Plunger	Solenoid valves for different fluids type: 1132/06 - /08	
	Plunger spring		
	Diaphragm		
	Cover/body screws		
9150/R14	Plunger	Solenoid valves for different fluids type: 1142/010 - /012	
	Plunger spring		
	Diaphragm		
	No 2 pilot O Rings		
	Nut/cover O Ring		
	Cover/body screws		

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR CHECK VALVES

9150/R16	Piston	Check valves type: 3120/7 - /9 - /M22 - /M28 3140/7 - /9 - /M28 3180/7 - /9 - /M28	Valves out of stock
	Spring		
	Cover/body O Ring		
	Cover/body screws		
9150/R17	Piston	Check valves type: 3120/11 3140/11 3180/11	Valves out of stock
	Spring		
	Cover/body O Ring		
	Cover/body screws		
9150/R18	Piston	Check valves type: 3120/13 - /M42 3140/13 - /M42	Valves out of stock
	Spring		
	Cover/body O Ring		
	Cover/body screws		
9150/R19	Piston	Check valves type: 3120/17 3140/17 - /21 - /25 3160/17 3180/13 - /M42 - /17	Valves out of stock
	Spring		
	Cover/body O Ring		
	Cover/body screws		
9150/R52	Piston	Check valves type: 3122/7 - /9 - /M22 - /M28 3142/7 - /9 - /M28 3182/7 - /9 - /M28	
	Spring		
	Cover/body gasket		
	Cover/body screws		
9150/R53	Piston	Check valves type: 3122/11 3142/11 3182/11	
	Spring		
	Cover/body gasket		
	Cover/body screws		
9150/R54	Piston	Check valves type: 3122/13 - /M42 3142/13 - /M42	
	Spring		
	Cover/body gasket		
	Cover/body screws		
9150/R55	Piston	Check valves type: 3122/17 3142/17 - /21 - /25 3182/13 - /M42 - /17	
	Spring		
	Cover/body gasket		
	Cover/body screws		

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR INDICATORS

9150/R20	Nut	Liquid indicators type: 3610/.. ; 3620/.. ; 3640/.. ; 3650/..	3610/.. ; 3640/.. ; 3650/.. out of stock
	Protection cap		
	Nut/body O Ring		
9150/R21	Pre-assembled nut	Moisture - liquid indicators type: 3710/.. ; 3720/.. ; 3740/.. ; 3750/.. ; 3770/.. ; 3771/.. ; 3780/.. ; 3781/..	3710/.. ; 3740/.. ; 3750/.. out of stock
	Protection cap		
	Nut/body O Ring		

ACCESSORIES AND SPARE PARTS FOR FILTERS

G9150/R05	Access fitting	Filters with replaceable block type: 4411/.. ; 4412/.. ; 4413/.. ; 4414/.. 4421/.. ; 4423/.. ; 4424/..	
	Cap with gasket		
	Valve core		
003319	Spring	All the filters series 44	
003322	Flange gasket	Filters with replaceable block type: 4411/.. ; 4412/.. ; 4413/.. ; 4414/..	
009406	Dehydrating block cover	Filters with replaceable block type: 4411/..A-B-AF ; 4412/..A-B-AF 4413/..A-B-AF ; 4414/..A-B-AF	
003324	Dehydrating block bottom		
007677	Filtering tube for one block		
9150/R57	Mechanical block cover	Filters with replaceable block type: 4411/..C	
	Mechanical block bottom		
008336	Flange gasket	Filters with replaceable block type: 4421/.. ; 4423/.. ; 4424/..	
008304	Dehydrating block cover	Filters with replaceable block type: 4421/..A ; 4423/..A ; 4424/..A	
008305	Dehydrating block bottom		
008307	Screw for filtering tube		
008403	Filtering tube	Filters with replaceable block type 4421/..A	
008345	Filtering tube	Filters with replaceable block type 4423/..A	
008344	Filtering tube	Filters with replaceable block type 4424/..A	
9150/R58	Mechanical block cover	Filters with replaceable block type 4421/..C	
	Mechanical block bottom		

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR CHANGEOVER VALVES

9150/R24	Gland	Changeover devices 3032/44 ; /64 ; /66	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
9150/R25	Gland	Changeover valve 3032/108	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
3039/4	Pair of connections 1/2"NPT female	Changeover valve 3032/44	
004260	Connection/body O Ring		
009036	Cap		
008281	Cap	Changeover valve 3032/64 - /66	

ACCESSORIES AND SPARE PARTS FOR BALL SHUT-OFF VALVES

009035	Cap	Ball shut-off valves 3033/..	
009256	Cap	Ball shut-off valves 3063/44	

ACCESSORIES AND SPARE PARTS FOR HERMETIC VALVES

9150/R23	Gland	All the hermetic valves type: 6010/.. ; 6012/.. ; 6020/.. ; 6060/.. ; 6070/..	6060/.. ; 6070/.. out of stock
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
007486	Cap		
000913	Spindle	Hermetic valves type 6010/2 ; 6012/22	
G9150/R33	Screw	Hermetic valves type 6020/..	
	Spring washer		

ACCESSORIES AND SPARE PARTS FOR RECEIVER VALVES

9150/R23	Gland	Receiver valves type: 6110/21 - /22 - /23 - /32 - /33 6120/22 - /23 - /33 6132/.. 6140/22 - /23	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
007486	Cap		
000913	Spindle	Receiver valves type: 6110/21 - /22 ; 6120/22 ; 6140/22 - /23	
001641	Spindle	Receiver valves type: 6110/23 - /32 - /33 ; 6120/23 - /33	
9150/R24	Gland	Receiver valves type: 6110/43 - /44 - /54 6120/43 - /44 - /54	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
009036	Cap		
001647	Spindle		
9150/R25	Gland	"Receiver valves type: 6110/66 6120/66"	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
008282	Cap		
001038	Spindle		



Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR STOP VALVES

9150/R26	Gland	Stop valves type: 6170/66 - /77	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		

ACCESSORIES AND SPARE PARTS FOR ROTALOCK VALVES

9150/R23	Gland	Rotalock valves types: 6310/.. 6320/..	To be ordered separately
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
7910/6	Steel solder connection 3/4" UNF-16		
7990/6	PTFE gasket for 7910/6		
7910/8	Steel solder connection 1" UNS-16		
7990/8	PTFE gasket for 7910/8		

ACCESSORIES AND SPARE PARTS FOR CAPPED VALVES

9150/R23	Gland	Capped valves type: 6410/.. ; 6420/.. ; 6460/..	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		
007486	Cap		
002337	Spindle	Capped valves type: 6410/2 - /3 - /4 - /5 6420/2 - /3 - /M10 - /M12 - /4 - /5 6460/22A.	
005174	Nipple/body O Ring		
007619	Spindle	Capped valves type: 6410/6 6420/M18 - /6 - /M22 - /7	
007676	Nipple/body O Ring		

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR GLOBE VALVES

9150/R24	Gland	Globe valves type: (1) 6510/M22 - /7 - /M28 - /9 - /11 6512/M22 - /7 - /M28 - /9 - /11 (1) 6520/7 - /9 - /11 (1) 6530/M22 - /7 - /M28 - /9 - /11 6532/M22 - /7 - /M28 - /9 - /11	(1) Valves out of stock	
	Gland seal gaskets			
	Gland seal gaskets			
	Washer			
001635	Cap			
004296	Cap gasket			
9150/R27	Spindle/plate group			Globe valves type: (1) 6510/M22 - /7 - /M28 - /9 6512/M22 - /7 - /M28 - /9 (1) 6520/7 - /9 (1) 6530/M22 - /7 - /M28 - /9 6532/M22 - /7 - /M28 - /9
004299	Cover/body screws			
004251	Cover/body O Ring			Globe valves type: (1) 6510/M22 - /7 - /M28 - /9 (1) 6520/7 - /9 (1) 6530/M22 - /7 - /M28 - /9
008863	Cover/body gasket			Globe valves type: 6512/M22 - /7 - /M28 - /9 6532/M22 - /7 - /M28 - /9
9150/R28	Spindle/plate group	Globe valves type: (1) 6510/11 6512/11 (1) 6520/11 (1) 6530/11 6532/11		
004692	Cover/body screws			
004691	Cover/body O Ring	Globe valves type: (1) 6510/11 (1) 6520/11 (1) 6530/11		
009174	Cover/body gasket	Globe valves type: 6512/11 6532/11		
9150/R26	Gland	Globe valves type: (1) 6510/13 - /M42 - /17 6512/13 - /M42 - /17 (1) 6520/13 - /M42 - /17 (1) 6530/13 - /M42 - /17 6532/13 - /M42 - /17	(1) Valves out of stock	
	Gland seal gaskets			
	Gland seal gaskets			
	Washer			
001228	Cap			
000830	Cap gasket			
004302	Cover/body screws			
9150/R29	Spindle/plate group			Globe valves type: (1) 6510/13 - /M42 6512/13 - /M42 (1) 6520/13 - /M42
008002	Cover/body O Ring			Globe valves type: (1) 6510/13 - /M42 (1) 6520/13 - /M42
009175	Cover/body gasket			Globe valves type: 6512/13 - /M42

Catalogue Number	Description	Suitable for: Products	Note
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ACCESSORIES AND SPARE PARTS FOR GLOBE VALVES

9150/R30	Spindle/plate group	Globe valves type: (1) 6510/17 6512/17 (1) 6520/17 (1) 6530/13 - /M42 - /17 6532/13 - /M42 - /17	(1) Valves out of stock
004261	Cover/body O Ring	Globe valves type: (1) 6510/17 (1) 6520/17 (1) 6530/13 - /M42 - /17	
009176	Cover/body gasket	Globe valves type: 6512/17 6532/13 - /M42 - /17	

ACCESSORIES AND SPARE PARTS FOR BALL VALVES

009055	Plastic cap	Ball valves type: 6590/M6 - /2 - /3 - /3A - /M10 - /M10A - /M12 - /M12A - /4 - /4A 6591/5 6590/M15 - M15A - 5 - /5A - /M18 - /M18A - /6 - /6A 6591/7	
009750	Brass cap		
003752	Gasket for brass cap		
009036	Plastic cap	Ball valves type: 6590/7 - /7A 6591/M28 - /9 6590/M28 - /M28A - /9 - /9A 6591/11	
009751	Brass cap		
004296	Gasket for brass cap		
009037	Plastic cap	Ball valves type: 6590/11 - /11A 6591/13 - /M42 6590/13 - /13A - /M42 - /M42A 6591/17	
009752	Brass cap		
000530	Gasket for brass cap		
009038	Plastic cap	Ball valves type: 6590/17 - /17A 6591/21 - /21A 6591/M64 - /M64A	
009753	Brass cap		
009754	Gasket for brass cap		
009207	Brass cap	Ball valves type: 6590/M64A - /21A 6591/24A - /25A 6590/25A 6591/28A - /29A - /33A - /34A	
009208	Gasket for brass cap		
G9150/R46	Meccanismo	Rubinetti a sfera con attacco di carica	
	Cappuccio		

Catalogue Number	Description	Suitable for: Products	Note
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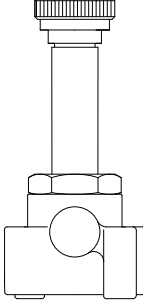
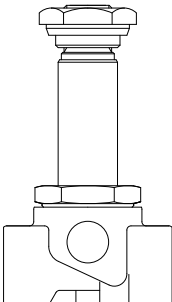
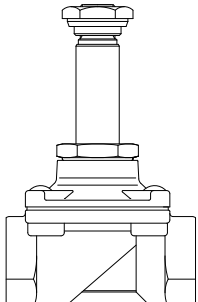
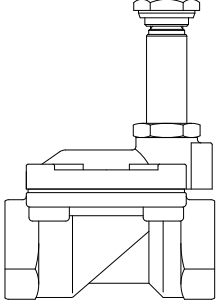
ACCESSORIES AND SPARE PARTS FOR COMPRESSOR VALVES

9150/R23	Gland	Compressor valves type 6640	Valves out of stock
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		

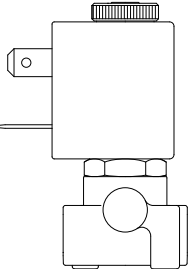
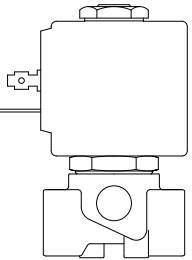
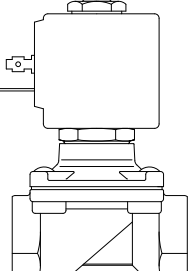
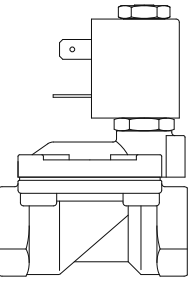
ACCESSORIES AND SPARE PARTS FOR GAUGE MOUNTING VALVES

9150/R23	Gland	Gauge mounting valves 8320/21 - /22	
	Gland seal gaskets		
	Gland seal gaskets		
	Washer		

**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'OTTONE E TENUTE NBR**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - BRASS BODY AND NBR SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS LAITON ET JOINT NBR**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - MESSINGKOERPER UND NBR DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1145/01N012S	SM2	G 1/8"	0.04	50	-10	+90	94
	1145/01N015S			0.06				94
	1145/01N020S			0.09				94
	1145/01N025S			0.14				94
	1145/01N031S			0.19				94
	1145/01N040S			0.35				94
	1146/01N015S	HM6	G 1/8"	0.07	50	-10	+90	60
	1146/01N020S		G 1/8"	0.10				60
	1146/01N025S		G 1/8"	0.15				60
	1146/01N035S		G 1/8"	0.32				60
	1146/02N015S		G 1/4"	0.07				60
	1146/02N020S		G 1/4"	0.10				60
	1146/02N025S		G 1/4"	0.15				60
	1146/02N035S		G 1/4"	0.32				60
	1146/02N045S		G 1/4"	0.41				60
	1146/02N052S		G 1/4"	0.47				60
	1146/02N064S		G 1/4"	0.64				60
	1123/03N120S	HM6	G 3/8"	2.00	25	-10	+90	40
	1123/04N120S	HM6	G 1/2"	2.20				40
	1123/06N180S	HM7	G 3/4"	4.50				24
	1123/08N240S	HM7	G 1"	8.50				14
	1133/03N120S	SM2	G 3/8"	2.20	25	-10	+90	40
	1133/04N120S	SM2	G 1/2"	2.50				40
	1133/06N180S	SM2	G 3/4"	5.50				24
	1133/08N240S	SM2	G 1"	10.20				18
	1133/010N300S	SM2	G 1.1/4"	15.00				6
	1133/010N370S	HM6	G 1.1/4"	18.00				4
	1133/012N370S	HM6	G 1.1/2"	21.00				4
	1133/016N500S	HM6	G 2"	36.00				3
	1133/020N750S	HM6	G 2.1/2"	75.00				1
	1133/024N750S	HM6	G 3"	84.00				1

**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'OTTONE E TENUTE NBR**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - BRASS BODY AND NBR SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS LAITON ET JOINT NBR**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE MIT SPULE - MESSINGKOERPER UND NBR DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1145/01N012A6	SM2	G 1/8"	0.04	50	-10	+90	94
	1145/01N015A6			0.06				94
	1145/01N020A6			0.09				94
	1145/01N025A6			0.14				94
	1145/01N031A6			0.19				94
	1145/01N040A6			0.35				94
	1146/01N015A6	HM6	G 1/8"	0.07	50	-10	+90	60
	1146/01N020A6		G 1/8"	0.10				60
	1146/01N025A6		G 1/8"	0.15				60
	1146/01N035A6		G 1/8"	0.32				60
	1146/02N015A6		G 1/4"	0.07				60
	1146/02N020A6		G 1/4"	0.10				60
	1146/02N025A6		G 1/4"	0.15				60
	1146/02N035A6		G 1/4"	0.32				60
	1146/02N045A6		G 1/4"	0.41				60
	1146/02N052A6		G 1/4"	0.47				60
	1146/02N064A6		G 1/4"	0.64				60
	1123/03N120A6	HM6	G 3/8"	2.00	25	-10	+90	40
	1123/04N120A6	HM6	G 1/2"	2.20				40
	1123/06N180A6	HM7	G 3/4"	4.50				24
	1123/08N240A6	HM7	G 1"	8.50				14
	1133/03N120A6	SM2	G 3/8"	2.20	25	-10	+90	40
	1133/04N120A6	SM2	G 1/2"	2.50				40
	1133/06N180A6	SM2	G 3/4"	5.50				24
	1133/08N240A6	SM2	G 1"	10.20				18
	1133/010N300A6	SM2	G 1.1/4"	15.00				6
	1133/010N370A6	HM6	G 1.1/4"	18.00				4
	1133/012N370A6	HM6	G 1.1/2"	21.00				4
	1133/016N500A6	HM6	G 2"	36.00				3
	1133/020N750A6	HM6	G 2.1/2"	75.00				1
	1133/024N750A6	HM6	G 3"	84.00				1

**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'OTTONE E TENUTE EPDM**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - BRASS BODY AND EPDM SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS LAITON ET JOINT EPDM**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - MESSINGKÖRPER UND EPDM DICHTUNG**

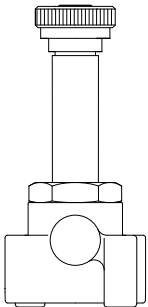
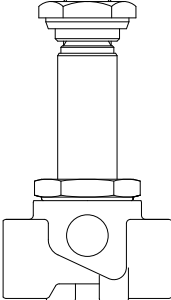
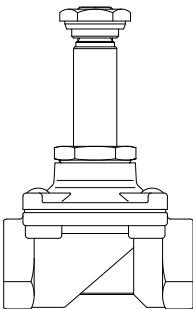
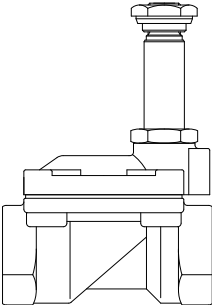
Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	K <sub>v</sub> [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1145/01E012S	SM2	G 1/8"	0.04	50	-10	+140	94
	1145/01E015S			0.06				94
	1145/01E020S			0.09				94
	1145/01E025S			0.14				94
	1145/01E031S			0.19				94
	1145/01E040S			0.35				94
	1146/01E015S	HM6	G 1/8"	0.07	50	-10	+140	60
	1146/01E020S		G 1/8"	0.10				60
	1146/01E025S		G 1/8"	0.15				60
	1146/01E035S		G 1/8"	0.32				60
	1146/02E015S		G 1/4"	0.07				60
	1146/02E020S		G 1/4"	0.10				60
	1146/02E025S		G 1/4"	0.15				60
	1146/02E035S		G 1/4"	0.32				60
	1146/02E045S		G 1/4"	0.41				60
	1146/02E052S		G 1/4"	0.47				60
	1146/02E064S		G 1/4"	0.64				60
	1133/03E120S	SM2	G 3/8"	2.20	25	-10	+140	40
	1133/04E120S	SM2	G 1/2"	2.50	25			40
	1133/06E180S	SM2	G 3/4"	5.50	25			24
	1133/08E240S	SM2	G 1"	10.20	25			18
	1133/010E300S	SM2	G 1.1/4"	15.00	25			6
	1133/010E370S	HM6	G 1.1/4"	18.00	25			4
	1133/012E370S	HM6	G 1.1/2"	21.00	25			4
	1133/016E500S	HM6	G 2"	36.00	20			3

**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'OTTONE E TENUTE EPDM**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - BRASS BODY AND EPDM SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS LAITON ET JOINT EPDM**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE MIT SPULE - MESSINGKÖRPER UND EPDM DICHTUNG**

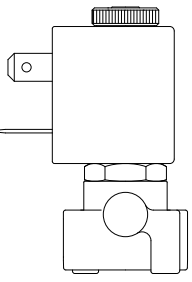
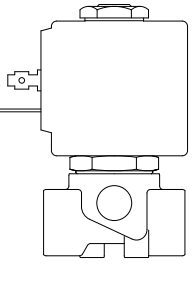
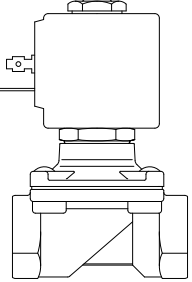
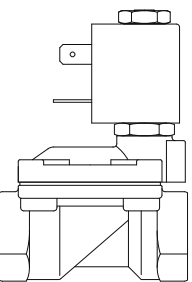
Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1145/01E012A6	SM2	G 1/8"	0.04	50	-10	+140	94
	1145/01E015A6			0.06				94
	1145/01E020A6			0.09				94
	1145/01E025A6			0.14				94
	1145/01E031A6			0.19				94
	1145/01E040A6			0.35				94
	1146/01E015A6	HM6	G 1/8"	0.07	50	-10	+140	60
	1146/01E020A6		G 1/8"	0.10				60
	1146/01E025A6		G 1/8"	0.15				60
	1146/01E035A6		G 1/8"	0.32				60
	1146/02E015A6		G 1/4"	0.07				60
	1146/02E020A6		G 1/4"	0.10				60
	1146/02E025A6		G 1/4"	0.15				60
	1146/02E035A6		G 1/4"	0.32				60
	1146/02E045A6		G 1/4"	0.41				60
	1146/02E052A6		G 1/4"	0.47				60
	1146/02E064A6		G 1/4"	0.64				60
			1133/03E120A6	SM2				G 3/8"
1133/04E120A6		SM2	G 1/2"	2.50	25	40		
1133/06E180A6		SM2	G 3/4"	5.50	25	24		
1133/08E240A6		SM2	G 1"	10.20	25	18		
1133/010E300A6		SM2	G 1.1/4"	15.00	25	6		
1133/010E370A6		HM6	G 1.1/4"	18.00	25	4		
1133/012E370A6		HM6	G 1.1/2"	21.00	25	4		
1133/016E500A6		HM6	G 2"	36.00	20	3		



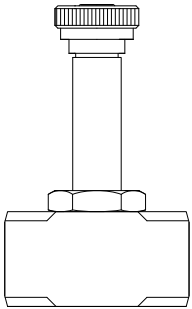
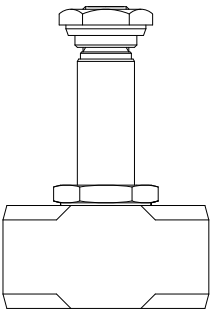
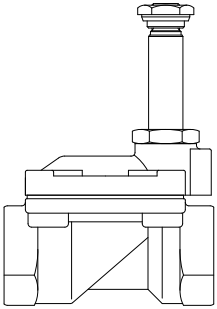
**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'OTTONE E TENUTE FPM**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - BRASS BODY AND FPM SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS LAITON ET JOINT FPM**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - MESSINGKOERPER UND FPM DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1145/01V012S	SM2	G 1/8"	0.04	50	-10	+130	94
	1145/01V015S			0.06				94
	1145/01V020S			0.09				94
	1145/01V025S			0.14				94
	1145/01V031S			0.19				94
	1145/01V040S			0.35				94
	1146/01V015S	HM6	G 1/8"	0.07	50	-10	+130	60
	1146/01V020S		G 1/8"	0.10				60
	1146/01V025S		G 1/8"	0.15				60
	1146/01V035S		G 1/8"	0.32				60
	1146/02V015S		G 1/4"	0.07				60
	1146/02V020S		G 1/4"	0.10				60
	1146/02V025S		G 1/4"	0.15				60
	1146/02V035S		G 1/4"	0.32				60
	1146/02V045S		G 1/4"	0.41				60
	1146/02V052S		G 1/4"	0.47				60
	1146/02V064S		G 1/4"	0.64				60
	1123/03V120S	HM6	G 3/8"	2.00	25	-10	+130	40
	1123/04V120S	HM6	G 1/2"	2.20				40
	1123/06V180S	HM7	G 3/4"	4.50				24
	1123/08V240S	HM7	G 1"	8.50				14
	1133/03V120S	SM2	G 3/8"	2.20	25	-10	+130	40
	1133/04V120S	SM2	G 1/2"	2.50	25			40
	1133/06V180S	SM2	G 3/4"	5.50	25			24
	1133/08V240S	SM2	G 1"	10.20	25			18
	1133/010V300S	SM2	G 1.1/4"	15.00	25			6
	1133/010V370S	HM6	G 1.1/4"	18.00	25			4
	1133/012V370S	HM6	G 1.1/2"	21.00	25			4
	1133/016V500S	HM6	G 2"	36.00	20			3

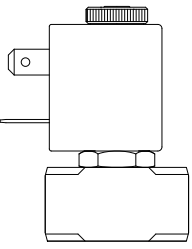
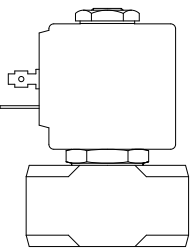
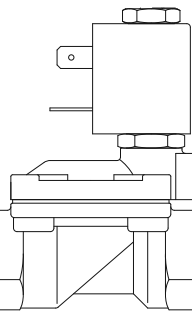
**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'OTTONE E TENUTE FPM**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - BRASS BODY AND FPM SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS LAITON ET JOINT FPM**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE MIT SPULE - MESSINGKÖRPER UND FPM DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1145/01V012A6	SM2	G 1/8"	0.04	50	-10	+130	94
	1145/01V015A6			0.06				94
	1145/01V020A6			0.09				94
	1145/01V025A6			0.14				94
	1145/01V031A6			0.19				94
	1145/01V040A6			0.35				94
	1146/01V015A6	HM6	G 1/8"	0.07	50	-10	+130	60
	1146/01V020A6		G 1/8"	0.10				60
	1146/01V025A6		G 1/8"	0.15				60
	1146/01V035A6		G 1/8"	0.32				60
	1146/02V015A6		G 1/4"	0.07				60
	1146/02V020A6		G 1/4"	0.10				60
	1146/02V025A6		G 1/4"	0.15				60
	1146/02V035A6		G 1/4"	0.32				60
	1146/02V045A6		G 1/4"	0.41				60
	1146/02V052A6		G 1/4"	0.47				60
	1146/02V064A6		G 1/4"	0.64				60
			1123/03V120A6	HM6				G 3/8"
1123/04V120A6		HM6	G 1/2"	2.20	40			
1123/06V180A6		HM7	G 3/4"	4.50	24			
1123/08V240A6		HM7	G 1"	8.50	14			
	1133/03V120A6	SM2	G 3/8"	2.20	25	-10	+130	40
	1133/04V120A6	SM2	G 1/2"	2.50	25			40
	1133/06V180A6	SM2	G 3/4"	5.50	25			24
	1133/08V240A6	SM2	G 1"	10.20	25			18
	1133/010V300A6	SM2	G 1.1/4"	15.00	25			6
	1133/010V370A6	HM6	G 1.1/4"	18.00	25			4
	1133/012V370A6	HM6	G 1.1/2"	21.00	25			4
	1133/016V500A6	HM6	G 2"	36.00	20			3

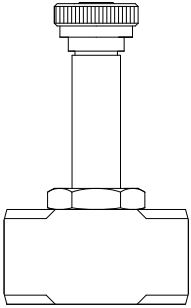
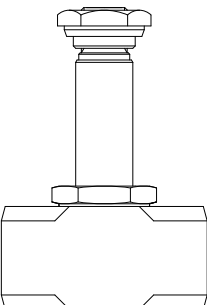
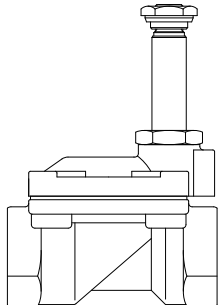
**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'ACCIAIO INOX E TENUTE NBR**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - STAINLESS STEEL BODY AND NBR SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS ACIER ET JOINT NBR**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - STAHLGEHÄUSE UND NBR DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1245/01N012S	SM2	G 1/8"	0.04	50	-10	+90	94
	1245/01N015S			0.06				94
	1245/01N020S			0.09				94
	1245/01N025S			0.14				94
	1245/01N031S			0.19				94
	1246/02N020S	HM6	G 1/4"	0.10	100	-10	+90	60
	1246/02N025S			0.15				60
	1246/02N035S			0.32				60
	1246/02N045S			0.41				60
	1246/02N052S			0.47				60
	1233/03N120S	SM2	G 3/8"	2.20	25	-10	+90	40
	1233/04N120S		G 1/2"	2.50				40
	1233/06N180S		G 3/4"	5.50				24
	1233/08N240S		G 1"	10.20				14

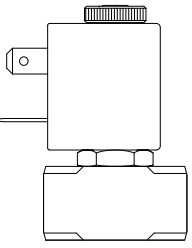
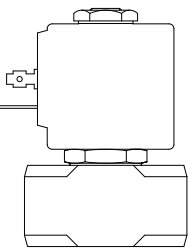
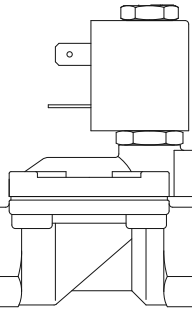
**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'ACCIAIO INOX E TENUTE NBR**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - STAINLESS STEEL BODY AND NBR SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS ACIER ET JOINT NBR**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECHE MIT SPULE - STAHLGEHÄUSE UND NBR DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1245/01N012A6	SM2	G 1/8"	0.04	50	-10	+90	94
	1245/01N015A6			0.06				94
	1245/01N020A6			0.09				94
	1245/01N025A6			0.14				94
	1245/01N031A6			0.19				94
	1246/02N020A6	HM6	G 1/4"	0.10	100	-10	+90	60
	1246/02N025A6			0.15				60
	1246/02N035A6			0.32				60
	1246/02N045A6			0.41				60
	1246/02N052A6			0.47				60
	1233/03N120A6	SM2	G 3/8"	2.20	25	-10	+90	40
	1233/04N120A6		G 1/2"	2.50				40
	1233/06N180A6		G 3/4"	5.50				24
	1233/08N240A6		G 1"	10.20				14

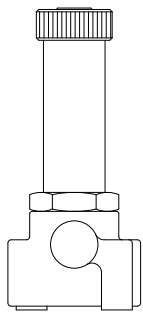
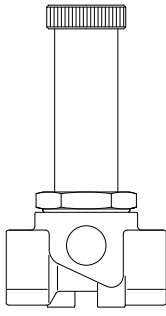
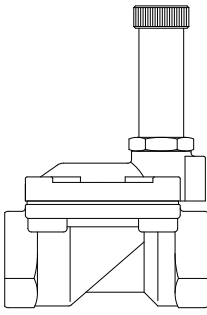
**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'ACCIAIO INOX E TENUTE FPM**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - STAINLESS STEEL BODY AND FPM SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS ACIER ET JOINT FPM**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - STAHLGEHÄUSE UND FPM DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1245/01V012S	SM2	G 1/8"	0.04	50	-10	+130	94
	1245/01V015S			0.06				94
	1245/01V020S			0.09				94
	1245/01V025S			0.14				94
	1245/01V031S			0.19				94
	1246/02V020S	HM6	G 1/4"	0.10	100	-10	+130	60
	1246/02V025S			0.15				60
	1246/02V035S			0.32				60
	1246/02V045S			0.41				60
	1246/02V052S			0.47				60
	1233/03V120S	SM2	G 3/8"	2.20	25	-10	+130	40
	1233/04V120S		G 1/2"	2.50				40
	1233/06V180S		G 3/4"	5.50				24
	1233/08V240S		G 1"	10.20				14

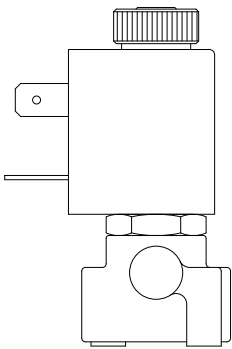
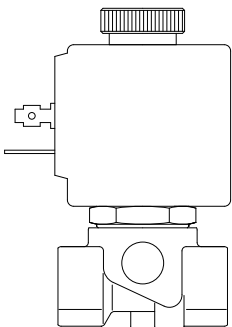
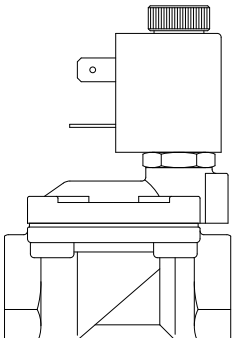
**VALVOLE SOLENOIDE N.C. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'ACCIAIO INOX E TENUTE FPM**  
**N.C. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - STAINLESS STEEL BODY AND FPM SEALS**  
**ELECTROVANNES N.F. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS ACIER ET JOINT FPM**  
**N.C. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE MIT SPULE - STAHLGEHÄUSE UND FPM DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1245/01V012A6	SM2	G 1/8"	0.04	50	-10	+130	94
	1245/01V015A6			0.06				94
	1245/01V020A6			0.09				94
	1245/01V025A6			0.14				94
	1245/01V031A6			0.19				94
	1246/02V020A6	HM6	G 1/4"	0.10	100	-10	+130	60
	1246/02V025A6			0.15				60
	1246/02V035A6			0.32				60
	1246/02V045A6			0.41				60
	1246/02V052A6			0.47				60
	1233/03V120A6	SM2	G 3/8"	2.20	25	-10	+130	40
	1233/04V120A6		G 1/2"	2.50				40
	1233/06V180A6		G 3/4"	5.50				24
	1233/08V240A6		G 1"	10.20				14

**VALVOLE SOLENOIDE N.A. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'OTTONE E TENUTE NBR**  
**N.O. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - BRASS BODY AND NBR SEALS**  
**ELECTROVANNES N.O. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS LAITON ET JOINT NBR**  
**N.O. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - MESSINGKOERPER UND NBR DICHTUNG**

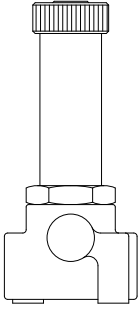
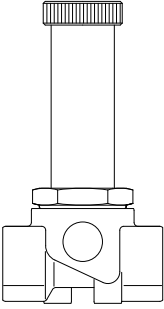
Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	K <sub>v</sub> [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1135/01N015S	SM2	G 1/8"	0.06	50	-10	+90	94
	1135/01N020S			0.09				94
	1136/01N015S	HM6	G 1/8"	0.07	50	-10	+90	60
	1136/01N020S		G 1/8"	0.10				60
	1136/02N025S		G 1/4"	0.15				60
	1136/02N035S		G 1/4"	0.32				60
	1136/02N045S		G 1/4"	0.41				60
	1143/03N120S	SM2	G 3/8"	2.20	25	-10	+90	40
	1143/04N120S	SM2	G 1/2"	2.50	25			40
	1143/06N180S	SM2	G 3/4"	5.50	25			24
	1143/08N240S	SM2	G 1"	10.20	25			14
	1143/010N300S	SM2	G 1.1/4"	15.00	25			6
	1143/010N370S	HM6	G 1.1/4"	18.00	25			4
	1143/012N370S	HM6	G 1.1/2"	21.00	25			4
	1143/016N500S	HM6	G 2"	36.00	20			3
	1143/020N750S	HM6	G 2.1/2"	75.00	20			1
	1143/024N750S	HM6	G 3"	84.00	20			1

**VALVOLE SOLENOIDE N.A. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'OTTONE E TENUTE NBR**  
**N.O. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - BRASS BODY AND NBR SEALS**  
**ELECTROVANNES N.O. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS LAITON ET JOINT NBR**  
**N.O. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE MIT SPULE - MESSINGKOERPER UND NBR DICHTUNG**

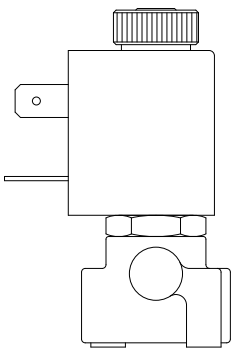
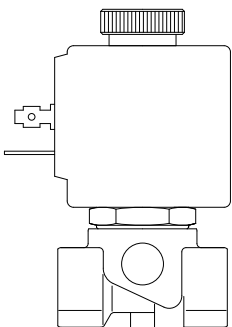
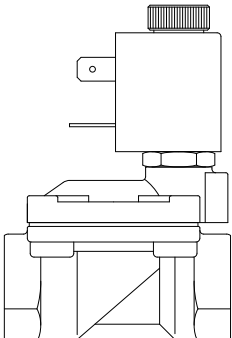
Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1135/01N015A6	SM2	G 1/8"	0.06	50	-10	+90	94
	1135/01N020A6			0.09				94
	1136/01N015A6	HM6	G 1/8"	0.07	50	-10	+90	60
	1136/01N020A6		G 1/8"	0.10				60
	1136/02N025A6		G 1/4"	0.15				60
	1136/02N035A6		G 1/4"	0.32				60
	1136/02N045A6		G 1/4"	0.41				60
	1143/03N120A6	SM2	G 3/8"	2.20	25	-10	+90	40
	1143/04N120A6	SM2	G 1/2"	2.50	25			40
	1143/06N180A6	SM2	G 3/4"	5.50	25			24
	1143/08N240A6	SM2	G 1"	10.20	25			14
	1143/010N300A6	SM2	G 1.1/4"	15.00	25			6
	1143/010N370A6	HM6	G 1.1/4"	18.00	25			4
	1143/012N370A6	HM6	G 1.1/2"	21.00	25			4
	1143/016N500A6	HM6	G 2"	36.00	20			3
	1143/020N750A6	HM6	G 2.1/2"	75.00	20			1
	1143/024N750A6	HM6	G 3"	84.00	20			1



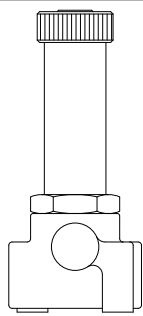
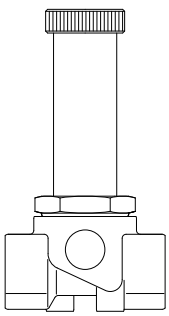
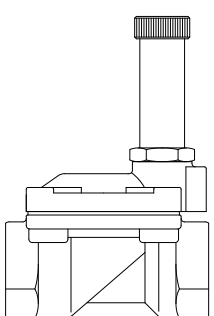
**VALVOLE SOLENOIDE N.A. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'OTTONE E TENUTE EPDM**  
**N.O. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - BRASS BODY AND EPDM SEALS**  
**ELECTROVANNES N.O. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS LAITON ET JOINT EPDM**  
**N.O. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - MESSINGKÖRPER UND EPDM DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1135/01E015S	SM2	G 1/8"	0.06	50	-10	+140	94
	1135/01E020S			0.09				94
	1136/01E015S	HM6	G 1/8"	0.07	50	-10	+140	60
	1136/01E020S		G 1/8"	0.10				60
	1136/02E025S		G 1/4"	0.15				60
	1136/02E035S		G 1/4"	0.32				60
	1136/02E045S		G 1/4"	0.41				60
	1143/03E120S		SM2	G 3/8"				2.20
1143/04E120S	SM2	G 1/2"	2.50	25	40			
1143/06E180S	SM2	G 3/4"	5.50	25	24			
1143/08E240S	SM2	G 1"	10.20	25	14			
1143/010E300S	SM2	G 1.1/4"	15.00	25	6			
1143/010E370S	HM6	G 1.1/4"	18.00	25	4			
1143/012E370S	HM6	G 1.1/2"	21.00	25	4			
1143/016E500S	HM6	G 2"	36.00	20	3			

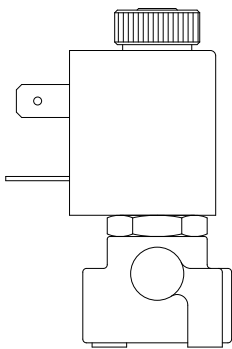
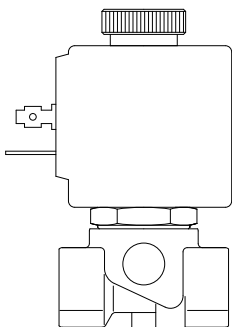
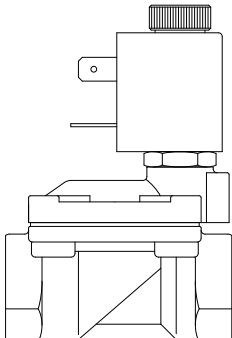
**VALVOLE SOLENOIDE N.A. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'OTTONE E TENUTE EPDM**  
**N.O. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - BRASS BODY AND EPDM SEALS**  
**ELECTROVANNES N.O. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS LAITON ET JOINT EPDM**  
**N.O. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE MIT SPULE - MESSINGKOERPER UND EPDM DICHTUNG**

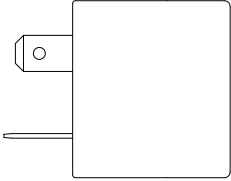
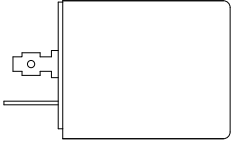
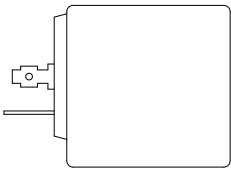
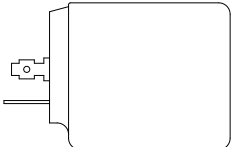
Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m³/h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1135/01E015A6	SM2	G 1/8"	0.06	50	-10	+140	94
	1135/01E020A6			0.09				94
	1136/01E015A6	HM6	G 1/8"	0.07	50	-10	+140	60
	1136/01E020A6		G 1/8"	0.10				60
	1136/02E025A6		G 1/4"	0.15				60
	1143/03E120A6	SM2	G 3/8"	2.20	25	-10	+140	40
	1143/04E120A6	SM2	G 1/2"	2.50	25			40
	1143/06E180A6	SM2	G 3/4"	5.50	25			24
	1143/08E240A6	SM2	G 1"	10.20	25			14
	1143/010E300A6	SM2	G 1.1/4"	15.00	25			6
	1143/010E370A6	HM6	G 1.1/4"	18.00	25			4
	1143/012E370A6	HM6	G 1.1/2"	21.00	25			4
	1143/016E500A6	HM6	G 2"	36.00	20			3

**VALVOLE SOLENOIDE N.A. PER IMPIEGHI INDUSTRIALI SENZA BOBINA - CORPO D'OTTONE E TENUTE FPM**  
**N.O. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITHOUT COILS - BRASS BODY AND FPM SEALS**  
**ELECTROVANNES N.O. POUR APPLICATIONS INDUSTRIELLES SANS BOBINE - CORPS LAITON ET JOINT FPM**  
**N.O. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE OHNE SPULE - MESSINGKOERPER UND FPM DICHTUNG**

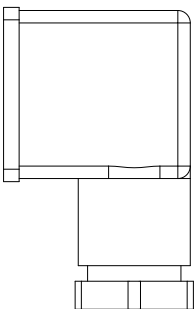
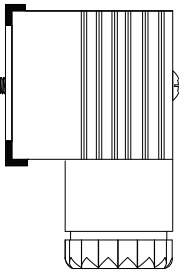
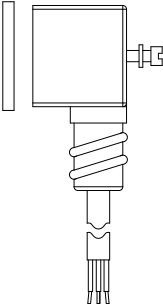
Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1135/01V015S	SM2	G 1/8"	0.06	50	-10	+130	94
	1135/01V020S			0.09				94
	1136/01V015S	HM6	G 1/8"	0.07	50	-10	+130	60
	1136/01V020S		G 1/8"	0.10				60
	1136/02V025S		G 1/4"	0.15				60
	1136/02V035S		G 1/4"	0.32				60
	1136/02V045S		G 1/4"	0.41				60
	1143/03V120S	SM2	G 3/8"	2.20	25	-10	+130	40
	1143/04V120S	SM2	G 1/2"	2.50	25			40
	1143/06V180S	SM2	G 3/4"	5.50	25			24
	1143/08V240S	SM2	G 1"	10.20	25			14
	1143/010V300S	SM2	G 1.1/4"	15.00	25			6
	1143/010V370S	HM6	G 1.1/4"	18.00	25			4
	1143/012V370S	HM6	G 1.1/2"	21.00	25			4
	1143/016V500S	HM6	G 2"	36.00	20			3

**VALVOLE SOLENOIDE N.A. PER IMPIEGHI INDUSTRIALI CON BOBINA - CORPO D'OTTONE E TENUTE FPM**  
**N.O. SOLENOID VALVES FOR INDUSTRIAL PURPOSES WITH COILS - BRASS BODY AND FPM SEALS**  
**ELECTROVANNES N.O. POUR APPLICATIONS INDUSTRIELLES AVEC BOBINE - CORPS LAITON ET JOINT FPM**  
**N.O. MAGNETVENTILE FÜR INDUSTRIELLE ZWECKE MIT SPULE - MESSINGKÖRPER UND FPM DICHTUNG**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part Number N° Catalogue Katalog Nr	Bobina Coil Bobine Spule	Attacchi FPT FPT Connections Raccords FPT Anschlüsse FPT	Kv [m <sup>3</sup> /h]	PS [bar]	TS [°C]		Confezione n° pezzi Package Pcs. Emballage Verpackung
						min.	max.	
	1135/01V015A6	SM2	G 1/8"	0.06	50	-10	+130	94
	1135/01V020A6			0.09				94
	1136/01V015A6	HM6	G 1/8"	0.07	50	-10	+130	60
	1136/01V020A6		G 1/8"	0.10				60
	1136/02V025A6		G 1/4"	0.15				60
	1136/02V035A6		G 1/4"	0.32				60
	1136/02V045A6		G 1/4"	0.41				60
	1143/03V120A6	SM2	G 3/8"	2.20	25	-10	+130	40
	1143/04V120A6	SM2	G 1/2"	2.50	25			40
	1143/06V180A6	SM2	G 3/4"	5.50	25			24
	1143/08V240A6	SM2	G 1"	10.20	25			14
	1143/010V300A6	SM2	G 1.1/4"	15.00	25			6
	1143/010V370A6	HM6	G 1.1/4"	18.00	25			4
	1143/012V370A6	HM6	G 1.1/2"	21.00	25			4
	1143/016V500A6	HM6	G 2"	36.00	20			3

Disegno Drawing Dessin Zeichnung	Tipo Bobina Coil Type Type bobine Spulentyp	N° Catalogo Part number N° Catalogue Katalog Nr.	Tensione Voltage Tension Spannung [V]	Frequenza Frequency Fréquence Frequenz [Hz]	Potenza Power Puissance Leistung	Classe d'isolamento Insulation class Classe d'isolation Isolationsklasse	Confezione n° pezzi Package pcs Emballage Verpackung
	SM2	9200/RA2	24 A.C.	50 / 60	8 VA	F	108
		9200/RA4	110 A.C.				108
		9200/RA6	220/230 A.C.				108
		9200/RA7	240 A.C.				108
		9200/RD1	12 D.C.	-	6,5 W	108	
		9200/RD2	24 D.C.			108	
		9202/RA2	24 A.C.	50 / 60	8 VA	H	108
		9202/RA4	110 A.C.				108
		9202/RA6	220/230 A.C.				108
		9202/RA7	240 A.C.				108
		9202/RD1	12 D.C.	-	6,5 W	108	
		9202/RD2	24 D.C.			108	
	HM5	9210/RA2	24 A.C.	50 / 60	11 VA	F	108
		9210/RA4	110 A.C.				108
		9210/RA6	220/230 A.C.				108
		9210/RA7	240 A.C.				108
		9212/RA2	24 A.C.	-	-	H	108
		9212/RA4	110 A.C.				108
		9212/RA6	220/230 A.C.				108
		9212/RA7	240 A.C.				108
	HM6	9220/RA2	24 A.C.	50 / 60	15 VA	F	108
		9220/RA4	110 A.C.				108
		9220/RA6	220/230 A.C.				108
		9220/RA7	240 A.C.				108
		9220/RD1	12 D.C.	-	10 W	108	
		9220/RD2	24 D.C.			108	
		9222/RA2	24 A.C.	50 / 60	15 VA	H	108
		9222/RA4	110 A.C.				108
		9222/RA6	220/230 A.C.				108
		9222/RA7	240 A.C.				108
		9222/RD1	12 D.C.	-	10 W	108	
		9222/RD2	24 D.C.			108	
	HM7	9232/RA2	24 A.C.	50 / 60	30 VA	H	108
		9232/RA4	110 A.C.				108
		9232/RA6	220/230 A.C.				108
		9232/RA7	240 A.C.				108
		9232/RD1	12 D.C.	-	27 W	108	
		9232/RD2	24 D.C.			108	

**CONNETTORI  
CONNECTORS  
CONNECTEURS  
STECKER**

Disegno Drawing Dessin Zeichnung	N° Catalogo Part number N° Catalogue Katalog Nr	Grado di protezione Degree of protection Degrè de protection Schutz - klasse	Lunghezza cavo Cable length Longueur du câble Kabellänge [m]	Confezione n° pezzi Package pcs Emballage Verpackung
	9149/R01	IP 65	-	1
	9150/R02	IP 65	-	1
	9900/X66	IP 65	1	25
	9900/X73		2	25
	9900/X55		3	100
	9900/X54		5	1





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