



THE STRONG HEART OF THE VALVES

MADE IN **ITALY**



IL NOSTRO IMPEGNO AL CUORE DELLE VALVOLE

Da oltre 50 anni BBD realizza seggi di tenuta e componenti per il montaggio di valvole industriali. Grazie alla considerevole esperienza acquisita nel corso del tempo, la società è in grado di offrire grande professionalità e flessibilità organizzativa, unite alla base da una elevata qualità delle attività produttive.

In BBD è sempre attiva la linea imprenditoriale che ha fatto dell'attenzione e dell'ascolto dei collaboratori un punto di forza, un vero e proprio valore aggiunto nella gestione delle risorse umane e nel miglioramento continuo dell'organizzazione.

L'attività della nostra società è da sempre orientata ad un'attenta partnership; grazie a un ufficio tecnico composto da persone con pluriennale esperienza, siamo in grado di sviluppare progetti in collaborazione con i clienti che ci consentono di raggiungere lo stato dell'arte nella realizzazione di componenti per valvole industriali.

La costante ricerca di nuove soluzioni di analisi della tenuta consente a BBD di inserirsi sempre più in una logica di partecipazione nello sviluppo tecnico dei progetti e quindi di saper meglio interagire nelle fasi di lavorazione.

OUR MISSION AT THE HEART OF THE VALVES

For more than 50 years, BBD manufactures sealing seats and components for the assembly of industrial valves. Thanks to the considerable experience gained over time, the company is able to offer great professionalism and organizational flexibility, combined with the high quality of productive activities.

BBD is always an entrepreneurial line that has made the attendance and listening to staff a point of strength, a real added value in human resource management and continuous improvement of the organization.

The activity of our company has always been oriented towards a close partnership; thanks to a technical department composed of people with many years of experience, we are able to develop projects in collaboration with our customers.

The constant search for new sealing analysis solutions allows BBD to become increasingly involved in technical development of projects and therefore to know how to interact in the processing phases.

ANALISI, ACCIAI, TRATTAMENTI E TEST

Analisi di tenuta

- Analisi tenuta seggio-sfera
- Tenuta soffice O-ring / Delta ring
- Tenuta MTM

Acciai

- A105, A350 LF2/LF3, A694 F60, AISI 4140
- A182 F6A/F6NM
- A182 F316/L/LN, A182 F51/F53/F55/F60
17-4 PH, XM19
- INCONEL 625/718/725/825,
MONEL 400/K500, HASTELLOY C276
- Altri materiali: titanio, stellite, bronzo

Materiali termoplastici

- PTFE VERGINE, PTFE c/CG 25%,
PTFE c/VETRO, CABFLUOR M25,
PTFE DYNEON TFM
- DEVLOV V API, NYLON 6 MOS2,
ERTALON 6XAU, NYLON PA12G (LAURAMID)
SINVEX SMX, VESPEL Dupont
- PEEK VERGINE, PEEK c/PTFE 20%,
PEEK c/PTFE/CARBONE/GRAFITE
- P.C.T.F.E. (KEL-F)
- VESPEL Dupont

Elastomeri

- HNBR, HNBR AED
- FKM/VITON A AED, FKM/VITON B AED,
FKM/VITON GLT AED, FKM/VITON GF AED,
TFE AFLAS

Grafite

- Grafite FIRE-SAFE

Trattamenti superficiali, riporti, claddatura

- Nichelatura - E.N.P.
- Rivestimento di Carburi di Silicio - NiSiC
- Rivestimenti TCC – CCC – Stellite
- Claddatura

Test materiali: prove interne

- PMI - Durezza
- UT - PT (2° Level)
- Blu di Prussia - Bubble Test

ANALYSIS, STEELS, TREATMENTS AND TESTS

Elastomers

- HNBR, HNBR AED
- FKM/VITON A AED, FKM/VITON B AED,
FKM/VITON GLT AED, FKM/VITON GF AED,
TFE AFLAS

Graphite

- Graphite FIRE-SAFE

Surface treatments, coatings, cladding

- Nickel plating – E.N.P.
- Ni.Silicon carbide plating
- TCC – CCC – Stellite coatings
- Cladding

Material tests: inside tests

- PMI - Hardness
- UT - PT (2° Level)
- Prussian Blue Test - Bubble Test

Thermoplastic materials

- PTFE VIRGIN, PTFE c/CG 25%,
PTFE c/GLASS, CABFLUOR M25,
PTFE DYNEON TFM
- DEVLOV V API, NYLON 6 MOS2,
ERTALON 6XAU, NYLON PA12G (LAURAMID)
SINVEX SMX, VESPEL Dupont
- PEEK VERGINE, PEEK c/PTFE 20%,
PEEK c/PTFE/CARBON/GRAPHITE
- P.C.T.F.E. (KEL-F)
- VESPEL Dupont

LA NOSTRA TECNOLOGIA AL CUORE DELLE VALVOLE

Componenti per valvole a sfera Side Entry

- Seggio con inserto rigido
- Seggio con Delta ring
- Seggio con O-ring
- Seggio metallico
- Seggio floating
- Sfera
- Stelo
- Kit per valvole Side Entry

Componenti per valvole a sfera Top Entry

- Seggio Top Entry con inserto rigido
- Seggio Top Entry con Delta ring
- Seggio Top Entry con O-ring
- Seggio Top Entry metallico
- Anello porta molle
- Distanziale a settori
- Kit per valvole Top Entry

Componenti per valvole a saracinesca

- Seggio saracinesca con O-ring
- Seggio saracinesca con doppio inserto rigido
- Seggio saracinesca metallico
- Lama
- Stelo
- Kit seggi-lama-stelo

Componenti per seggi

- Inserto rigido termoplastico
- O-ring
- Delta ring
- Anelli anti estrusione
- Guarnizioni energizzate
- Grafite FIRE-SAFE
- Molle

OUR TECHNOLOGY AT THE HEART OF THE VALVES

Components for Side Entry ball valves

- Seat with hard insert
- Seat with Delta ring
- Seat with O-ring
- Metal to Metal seat
- Floating seat
- Ball
- Stem
- Kit for Side Entry valves

Components for Top Entry ball valves

- Top Entry seat with hard insert
- Top Entry seat with Delta ring
- Top Entry seat with O-ring
- Metal to Metal Top Entry seat
- Springs holder ring
- Sector spacer
- Kit for Top Entry valves

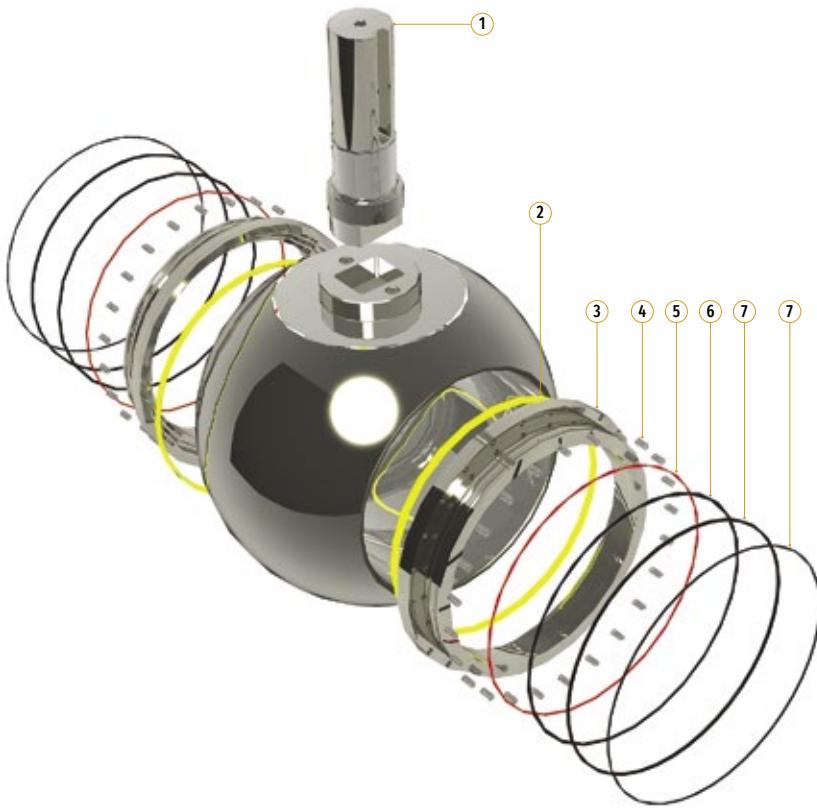
Components for gate valves

- Gate seat with O-ring
- Gate seat with double hard insert
- Metal to Metal seat for gate valve
- Gate
- Stem
- Seats-gate-stem kit

Components for seats

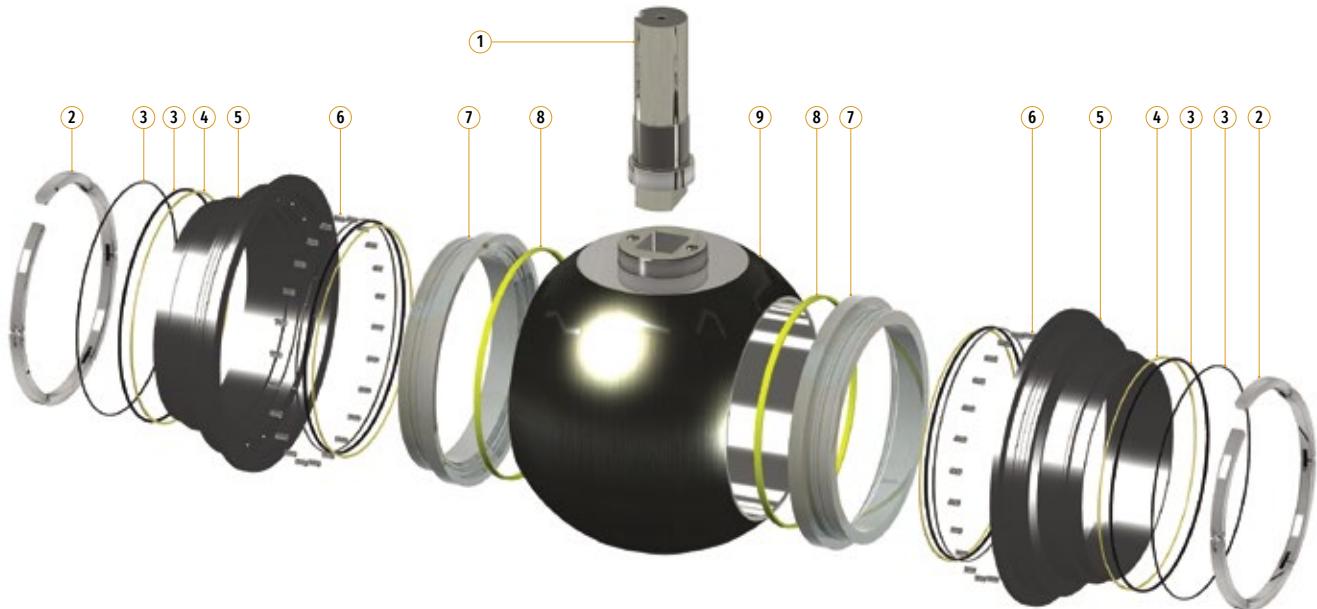
- Thermoplastic hard insert
- O-ring
- Delta ring
- Anti-extrusion rings
- Energized gaskets
- Graphite FIRE-SAFE
- Springs

KIT PER VALVOLE SIDE ENTRY / KIT FOR SIDE ENTRY VALVES



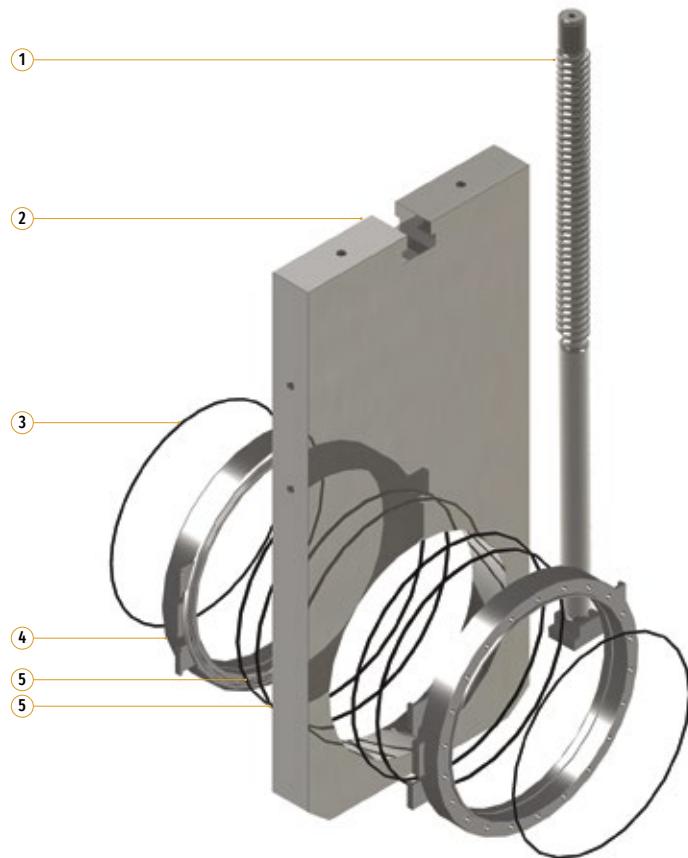
- | |
|-------------------------------|
| 1 > Stem |
| 2 > Thermoplastic hard insert |
| 3 > Seat |
| 4 > Springs |
| 5 > Graphite FIRE-SAFE |
| 6 > Anti-extrusion ring |
| 7 > O-ring |

KIT PER VALVOLE TOP ENTRY / KIT FOR TOP ENTRY VALVES



1 > Stem	6 > Springs
2 > Sector spacer	7 > Seat
3 > O-ring	8 > Thermoplastic hard insert
4 > Anti-extrusion ring	9 > Ball
5 > Springs holder ring	

KIT LAMA - SEGGI - STELO / GATE - SEATS - STEM KIT



1 > Stem

2 > Gate

3 > O-ring

4 > Gate seat with double hard insert

5 > Thermoplastic hard insert

VALVOLE A SFERA SIDE ENTRY / SIDE ENTRY BALL VALVES

Componenti / Components

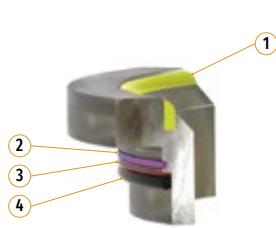
SEGGIO SIDE ENTRY CON INSERTO RIGIDO

SIDE ENTRY SEAT WITH HARD INSERT



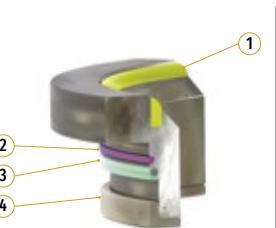
> SPE con inserto termoplastico
> SPE with hard insert

- 1> Thermoplastic inserted ring
- 2> Graphite ring
- 3> Anti-extrusion ring
- 4> O-ring
- 5> O-ring or grease guard



> DPE con inserto rigido
> DPE with hard insert

- 1> Thermoplastic inserted ring
- 2> Graphite ring
- 3> Anti-extrusion ring
- 4> O-ring



DPE con inserto rigido, Lip seal
DPE with hard insert, Lip seal

- 1> Thermoplastic inserted ring
- 2> Graphite ring
- 3> Lip seal
- 4> Retainer ring

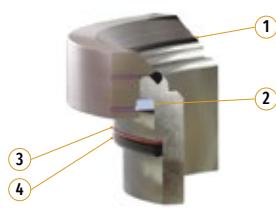
SEGGIO SIDE ENTRY CON O-RING

SIDE ENTRY SEAT WITH O-RING



> SPE con O-ring
> SPE with O-ring

- 1> O-ring
- 2> Elastic ring
- 3> Anti-extrusion ring
- 4> O-ring
- 5> O-ring or grease guard



> DPE con O-ring
> DPE with O-ring

- 1> O-ring
- 2> Elastic ring
- 3> Anti-extrusion ring
- 4> O-ring

VALVOLE A SFERA SIDE ENTRY / SIDE ENTRY BALL VALVES

SEGGIO SIDE ENTRY CON DELTA RING

SIDE ENTRY SEAT WITH DELTA RING



> SPE con Delta ring, anello elastico metallico
> SPE with Delta ring, elastic metal ring

- 1 > Elastometric ring
- 2 > Thermoplastic inserted ring
- 3 > Graphite ring
- 4 > Anti-extrusion ring
- 5 > O-ring
- 6 > O-ring or grease guard



> SPE con Delta ring, inserto termoplastico
> SPE with Delta ring, thermoplastic insert

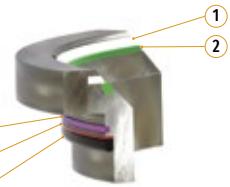
- 1 > Elastometric ring
- 2 > Thermoplastic inserted ring
- 3 > Graphite ring
- 4 > Anti-extrusion ring
- 5 > O-ring
- 6 > O-ring or grease guard



> SPE con Delta ring, anello elastico metallico, inserto termoplastico
> SPE with Delta ring, elastic metal ring, thermoplastic insert

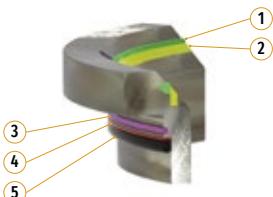
- 1 > Elastometric ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Anti-extrusion ring
- 6 > O-ring
- 7 > O-ring or grease guard

Componenti / Components



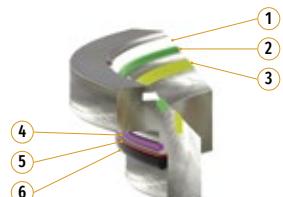
> DPE con Delta ring, anello elastico metallico
> DPE with Delta ring, elastic metal ring

- 1 > Elastometric ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Anti-extrusion ring
- 6 > O-ring



> DPE con Delta ring e inserto termoplastico
> DPE with Delta ring and thermoplastic insert

- 1 > Elastometric Delta ring
- 2 > Thermoplastic inserted ring
- 3 > Graphite ring
- 4 > Anti-extrusion ring
- 5 > O-ring



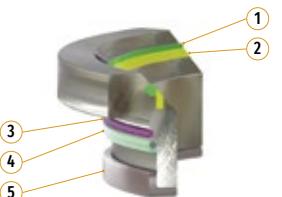
DPE con Delta ring, anello elastico metallico, inserto termoplastico
DPE with Delta ring, elastic metal ring, thermoplastic insert

- 1 > Elastometric ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Anti-extrusion ring
- 6 > O-ring



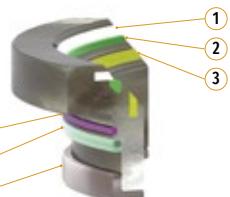
> DPE con Delta ring, anello elastico metallico, Lip seal
> DPE with Delta ring, elastic metal ring, thermoplastic insert, Lip seal

- 1 > Elastometric ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Lip seal
- 6 > Retainer ring



> DPE con Delta ring, inserto termoplastico, Lip seal
DPE with Delta ring, thermoplastic insert, Lip seal

- 1 > Elastometric ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Lip seal
- 6 > Retainer ring



DPE con Delta ring, anello elastico metallico, inserto termoplastico
DPE with Delta ring, elastic metal ring, thermoplastic insert, Lip seal

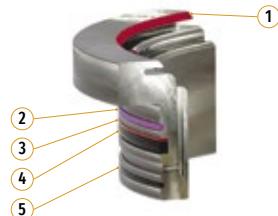
- 1 > Elastometric ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Lip seal
- 6 > Retainer ring

VALVOLE A SFERA SIDE ENTRY / SIDE ENTRY BALL VALVES

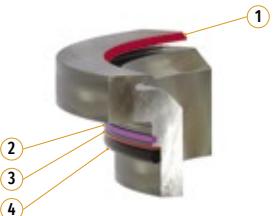
Componenti / Components

SEGGIO SIDE ENTRY METALLICO

METAL TO METAL SIDE ENTRY SEAT



- > SPE metal to metal
 - > Metal to metal SPE
- 1 > Tungsten carbide coating
2 > Graphite ring
3 > Anti-extrusion ring
4 > O-ring
5 > O-ring or grease guard



- > DPE metal to metal
 - > Metal to metal DPE
- 1 > Tungsten carbide coating
2 > Graphite ring
3 > Anti-extrusion ring
4 > O-ring



- > DPE metal to metal, Lip seal
 - > Metal to metal DPE, Lip seal
- 1 > Tungsten carbide coating
2 > Graphite ring
3 > Lip seal
4 > Retainer ring

SEGGIO FLOATING FLOATING SEAT



STEO / STEM



SFERA / BALL

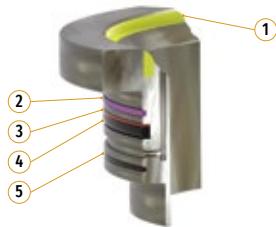


VALVOLE A SFERA TOP ENTRY / TOP ENTRY BALL VALVES

Componenti / Components

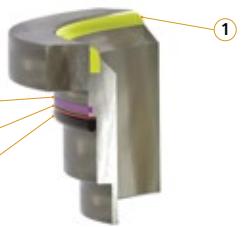
SEGGIO TOP ENTRY CON INSERTO RIGIDO

TOP ENTRY SEAT WITH HARD INSERT



> SPE con inserto termoplastico
> SPE with thermoplastic insert

- 1 > Thermoplastic inserted ring
- 2 > Graphite ring
- 3 > Anti-extrusion ring
- 4 > O-ring
- 5 > O-ring or grease guard



> DPE con inserto termoplastico
> DPE with thermoplastic insert

- 1 > Thermoplastic inserted ring
- 2 > Graphite ring
- 3 > Anti-extrusion ring
- 4 > O-ring



> DPE con inserto termoplastico, Lip Seal
> DPE with thermoplastic insert, Lip seal

- 1 > Thermoplastic inserted ring
- 2 > Graphite ring
- 3 > Lip seal

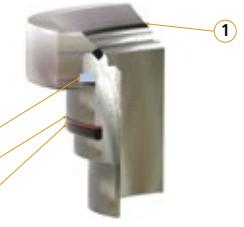
SEGGIO TOP ENTRY CON O-RING

TOP ENTRY SEAT WITH O-RING



> SPE con O-ring
> SPE with O-ring

- 1 > O-ring
- 2 > Elastic ring
- 3 > Anti-extrusion ring
- 4 > O-ring
- 5 > O-ring or grease guard



> DPE con O-ring
> DPE with O-ring

- 1 > O-ring
- 2 > Elastic ring
- 3 > Anti-extrusion ring
- 4 > O-ring

VALVOLE A SFERA TOP ENTRY / TOP ENTRY BALL VALVES

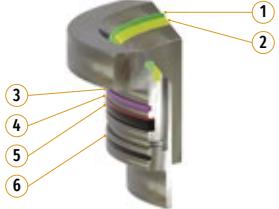
SEGGIO TOP ENTRY CON DELTA RING

TOP ENTRY SEAT WITH DELTA RING



> SPE con Delta ring, anello elastico metallico
> SPE with Delta ring and elastic metal ring

- 1 > Elastic metal ring
- 2 > Elastometric Delta ring
- 3 > Graphite ring
- 4 > Anti-extrusion ring
- 5 > O-ring
- 6 > O-ring or grease guard



> SPE con Delta ring, inserto termoplastico
> SPE with Delta ring, thermoplastic insert

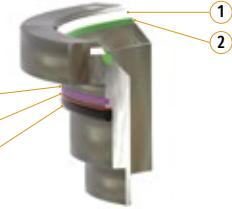
- 1 > Elastic Delta ring
- 2 > Thermoplastic inserted ring
- 3 > Graphite ring
- 4 > Anti-extrusion ring
- 5 > O-ring
- 6 > O-ring or grease guard



> SPE con Delta ring, anello elastico metallico, inserto termoplastico
> SPE with Delta ring, elastic metal ring, thermoplastic insert

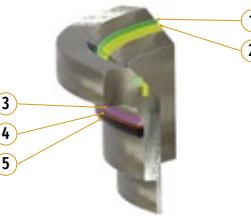
- 1 > Elastic metal ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Anti-extrusion ring
- 6 > O-ring
- 7 > O-ring or grease guard

Componenti / Components



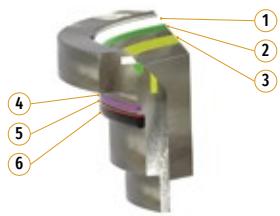
> DPE con Delta ring, anello elastico metallico
> DPE with Delta ring and elastic metal ring

- 1 > Elastic metal ring
- 2 > Elastometric Delta ring
- 3 > Graphite ring
- 4 > Anti-extrusion ring
- 5 > O-ring



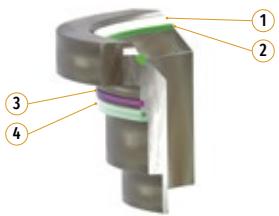
> DPE con Delta ring, inserto termoplastico
> DPE with Delta ring, thermoplastic insert

- 1 > Elastometric Delta ring
- 2 > Thermoplastic inserted ring
- 3 > Graphite ring
- 4 > Anti-extrusion ring
- 5 > O-ring



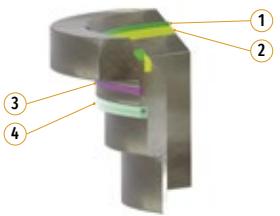
> DPE con Delta ring, anello elastico metallico, inserto termoplastico
> DPE with Delta ring, elastic metal ring, thermoplastic insert

- 1 > Elastic metal ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Anti-extrusion ring
- 6 > O-ring



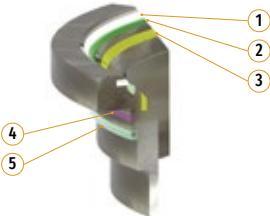
> DPE con Delta ring, anello elastico metallico, Lip seal
> DPE with Delta ring, elastic metal ring, Lip seal

- 1 > Elastic metal ring
- 2 > Elastometric Delta ring
- 3 > Graphite ring
- 4 > Lip seal



> DPE con Delta ring, inserto termoplastico, Lip seal
> DPE, with Delta ring, thermoplastic insert, Lip seal

- 1 > Elastometric Delta ring
- 2 > Thermoplastic inserted ring
- 3 > Graphite ring
- 4 > Lip seal



> DPE, con Delta ring, anello elastico metallico, inserto termoplastico, Lip seal
> DPE, with Delta ring, elastic metal ring, thermoplastic insert, Lip seal

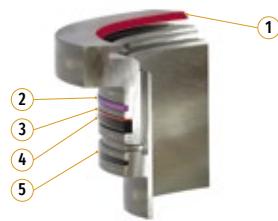
- 1 > Elastic metal ring
- 2 > Elastometric Delta ring
- 3 > Thermoplastic inserted ring
- 4 > Graphite ring
- 5 > Lip seal

VALVOLE A SFERA TOP ENTRY / TOP ENTRY BALL VALVES

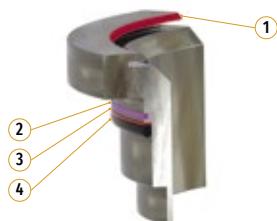
Componenti / Components

SEGGIO TOP ENTRY METALLICO

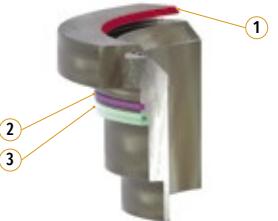
METAL TO METAL TOP ENTRY SEAT



- > SPE metal to metal
 - > Metal to metal SPE
- 1> Tungsten carbide coating
2> Graphite ring
3> Anti-extrusion ring
4> O-ring
5> O-ring or grease guard



- > DPE metal to metal
 - > Metal to metal DPE
- 1> Tungsten carbide coating
2> Graphite ring
3> Anti-extrusion ring
4> O-ring



- > DPE metal to metal, Lip seal
 - > Metal to metal DPE, Lip seal
- 1> Tungsten carbide coating
2> Graphite ring
3> Lip seal

ANELLO PORTA MOLLE SPRINGS HOLDER RING



- > Anello porta molle alto
 - > High springs holder ring
- 1> Springs
2> O-ring



- > Anello porta molle basso
 - > Low springs holder ring
- 1> Springs

DISTANZIALE A SETTORI SECTOR SPACER



VALVOLE A SARACINESCA / GATE VALVES

Componenti / Components

SEGGIO SARACINESCA CON O-RING

GATE SEAT WITH O-RING



SEGGIO SARACINESCA CON DOPPIO INSERTO RIGIDO

GATE SEAT WITH DOUBLE HARD INSERT

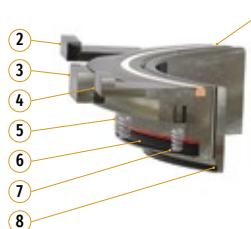


SEGGIO SARACINESCA METALLICO

METAL TO METAL GATE SEAT

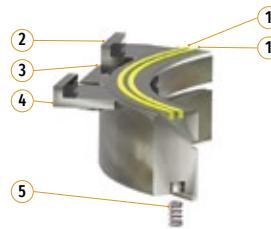


STEO STEM



Con O-ring
With O-ring

- 1 > O-ring
- 2 > Right pilot plate
- 3 > Gate lower stop
- 4 > Left pilot plate
- 5 > Anti-extrusion ring
- 6 > O-ring
- 7 > Springs
- 8 > O-ring or grease guard



> Con doppio inserto termoplastico
> With double thermoplastic insert

- 1 > Thermoplastic inserted ring
- 2 > Right pilot plate
- 3 > Gate lower stop
- 4 > Left pilot plate
- 5 > Springs

LAMA GATE



COMPONENTI PER SEGGI / COMPONENTS FOR SEATS

INSERTO RIGIDO TERMOPLASTICO

THERMOPLASTIC HARD INSERT



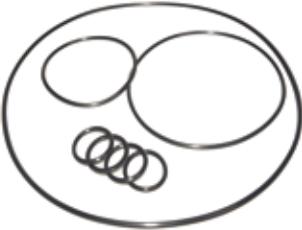
O-RING

O-RING



DELTA RING

DELTA RING



ANELLI ANTI-ESTRUSIONE

ANTI-EXTRUSION RINGS



GRAFITE FIRE-SAFE

GRAPHITE FIRE-SAFE



GUARNIZIONI ENERGIZZATE

ENERGIZED GASKETS



MOLLE

SPRINGS



UNI EN ISO 14001-2015

Sistema di gestione ambientale
Environmental Management System

B5 OHSAS 18001-2007

Sistema di gestione salute e sicurezza sul lavoro
Occupational Health and Safety Management System

UNI EN ISO 9001-2015

Sistema di gestione qualità
Quality Management System



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