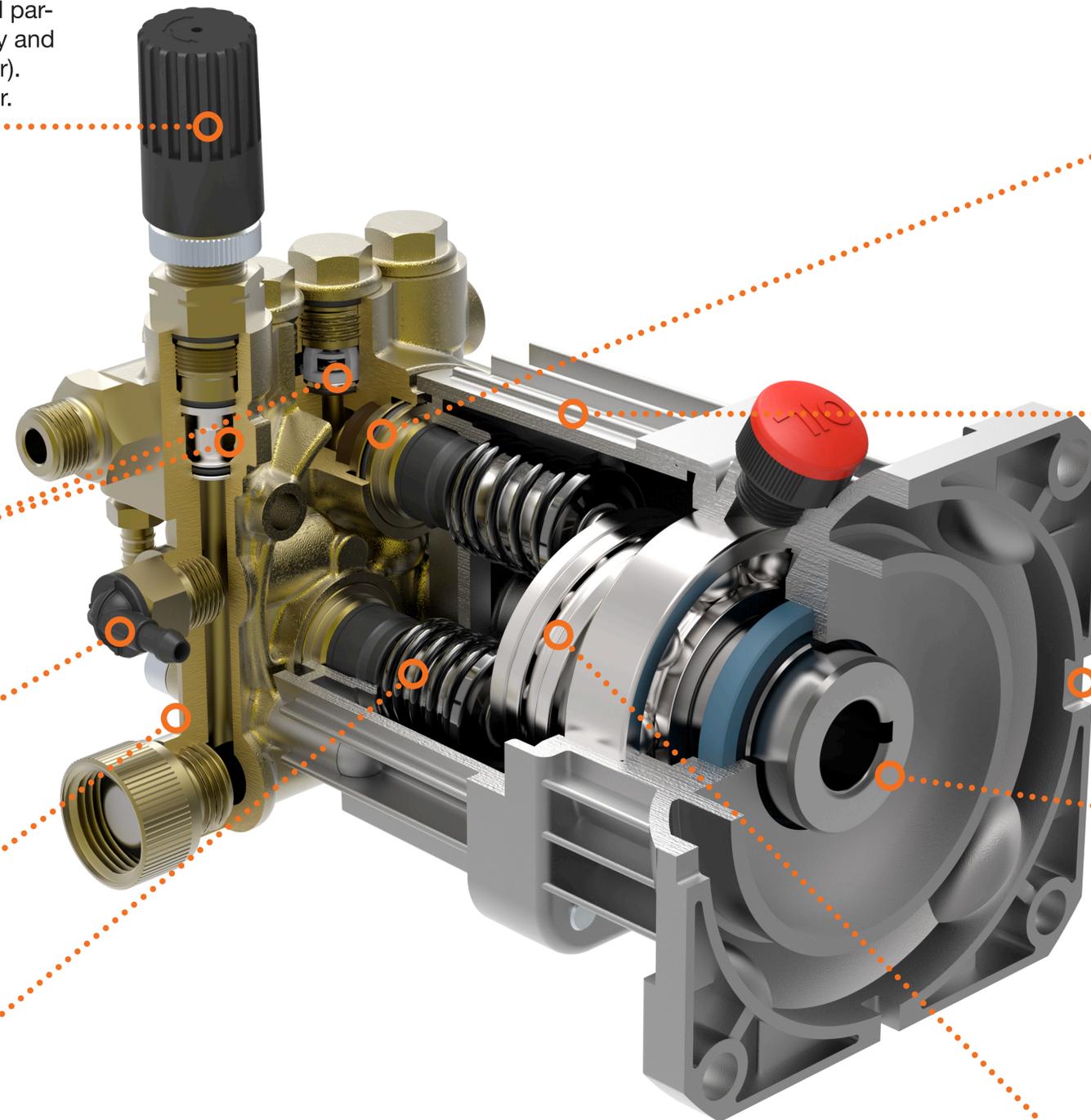


AXD-E



ADJUSTABLE UNLOADER with inner stainless steel parts and fitted with a check valve that ensures reliability and nozzles protection (lance nozzle and chemical ejector). Zero pressure in by-pass condition. Detergent ejector.

HIGH QUALITY DOUBLE SEALING SYSTEM



Aluminum die-cast **CRANKCASE WITH FINS** that grant optimal oil temperature

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves, corrosion-proof

THERMAL VALVE on request

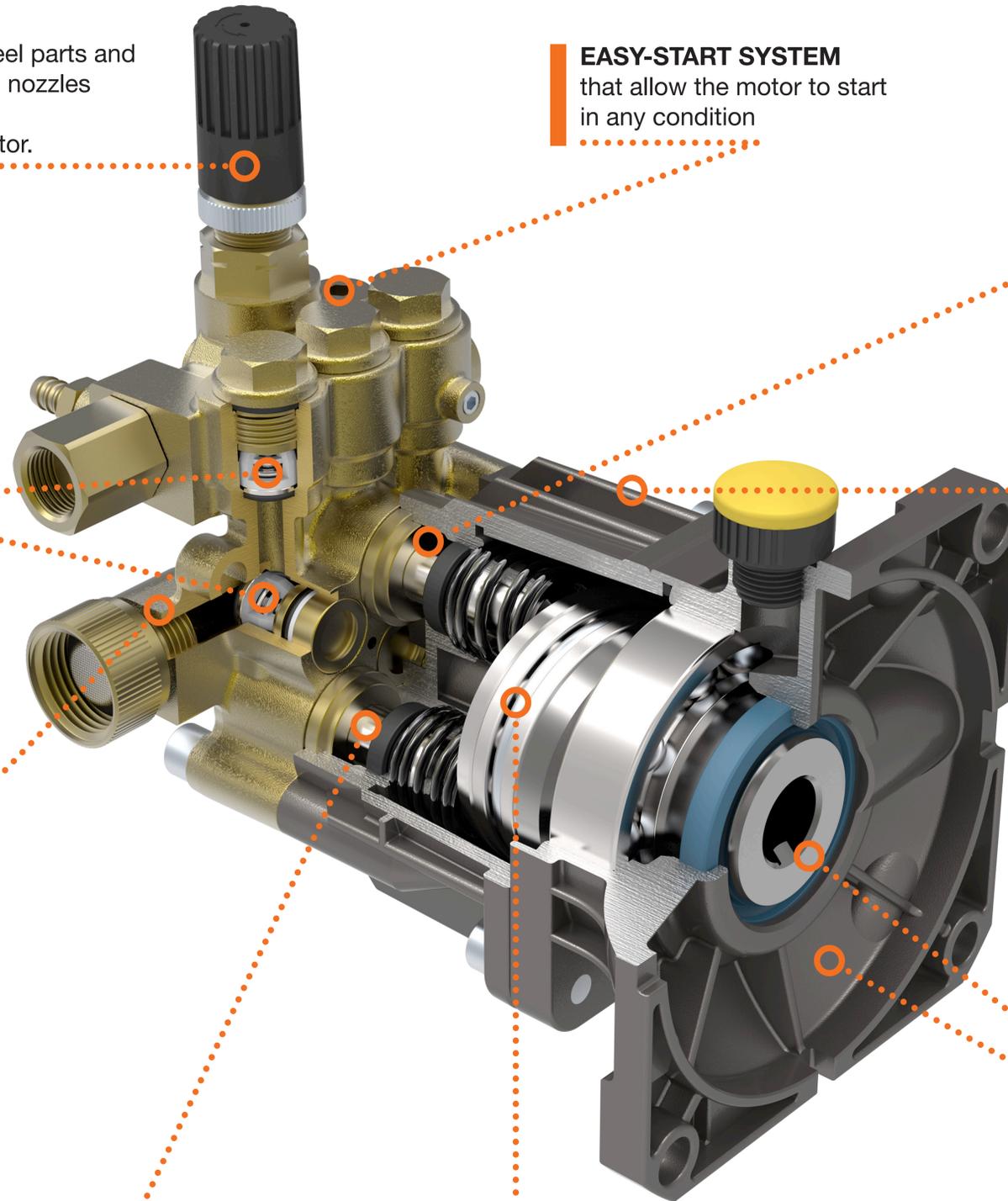
FORGED BRASS HEAD with high mechanical resistance and corrosion-proof

5/8" HOLLOW SHAFT WITH FLANGE for coupling to Nema 56C electric motor

COATED CERAMIC OR SPECIAL STAINLESS STEEL PISTONS with great resistance to corrosion and abrasion.

INTERNAL KINEMATISM with high quality ball bearings that guarantee reliability in time and a optimum response at high revolution per minute.

BXD-E



ADJUSTABLE UNLOADER with inner stainless steel parts and fitted with a check valve that ensures reliability and nozzles protection (lance nozzle and chemical ejector). Zero pressure in by-pass condition. Detergent ejector.

EASY-START SYSTEM that allow the motor to start in any condition

HIGH QUALITY DOUBLE SEALING SYSTEM

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves, corrosion-proof

CRANKCASE COMPLETE WITH FINS for low oil temperature. Made of die-cast aluminum alloy anodized for surface protection

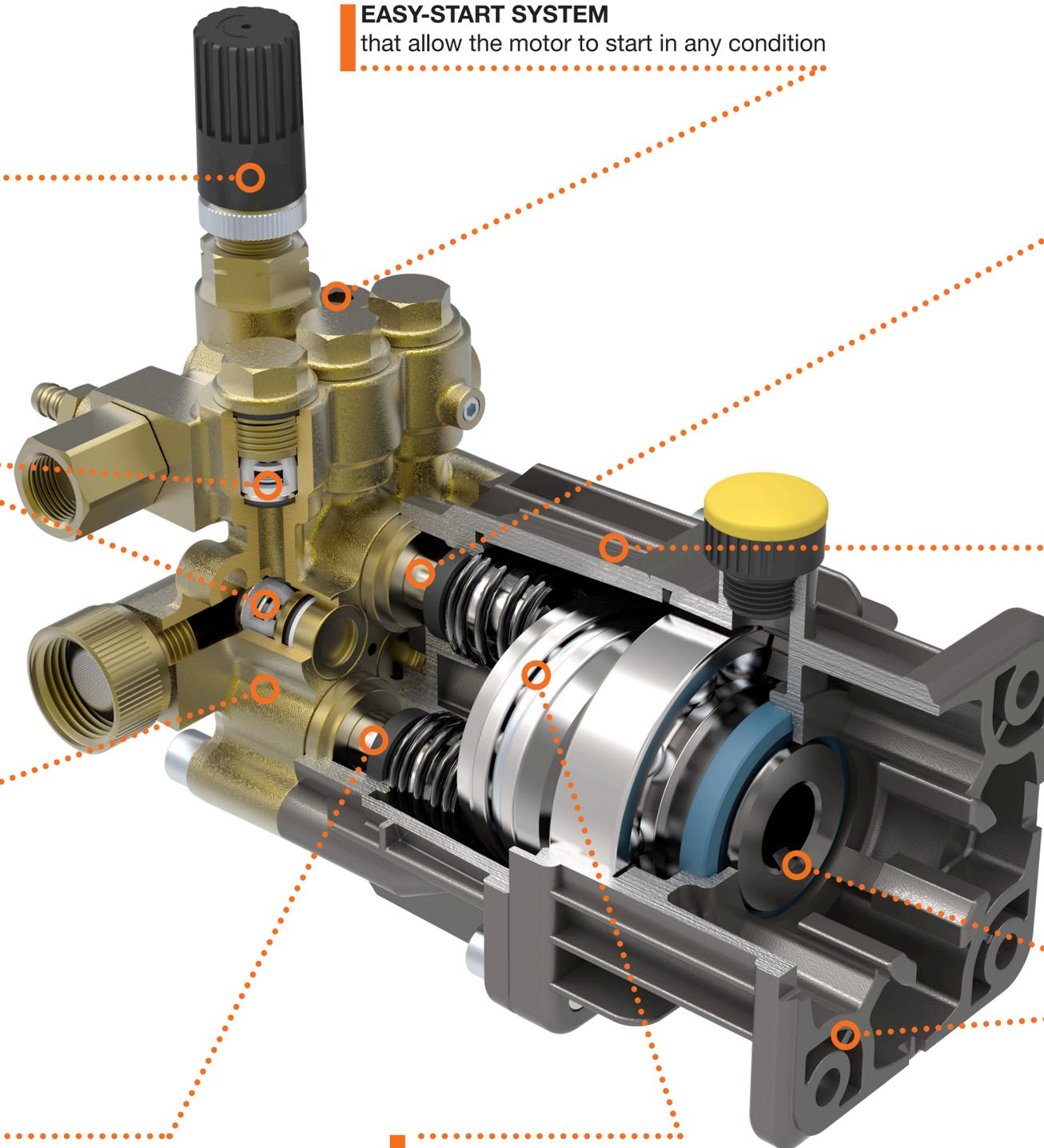
FORGED BRASS HEAD with high mechanical resistance and corrosion-proof

COATED CERAMIC OR SPECIAL STAINLESS STEEL PISTONS with great resistance to corrosion and abrasion.

INTERNAL KINEMATISM with high quality ball bearings that guarantee reliability in time and a optimum response at high revolution per minute.

5/8" HOLLOW SHAFT with **BUILT-IN-KEY** and with **FLANGE** for coupling to Nema 56 C electric motor

BXD-G



ADJUSTABLE UNLOADER with inner stainless steel parts and fitted with a check valve that ensures reliability and nozzles protection (lance nozzle and chemical ejector). Zero pressure in by-pass condition. Detergent ejector.

EASY-START SYSTEM that allow the motor to start in any condition

HIGH QUALITY DOUBLE SEALING SYSTEM

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves, corrosion-proof.

CRANKCASE COMPLETE WITH FINS for low oil temperature. Made of die-cast aluminum alloy anodized for surface protection

FORGED BRASS HEAD with high mechanical resistance and corrosion-proof.

3/4" STEEL HOLLOW SHAFT with **BUILT-IN-KEY** and with **FLANGE** for coupling to petrol engine

COATED CERAMIC OR SPECIAL STAINLESS STEEL PISTONS with great resistance to corrosion and abrasion.

INTERNAL KINEMATISM with high quality ball bearings that guarantee reliability in time and a optimum response at high revolution per minute.

AWD-K



ADJUSTABLE UNLOADER with inner stainless steel parts and fitted with a check valve that ensures reliability and nozzles protection (lance nozzle and chemical ejector). Zero pressure in bypass condition. Detergent ejector.

STAINLESS-STEEL HARDENED PISTONS GUIDE

CRANKCASE COMPLETE WITH FINS for low oil temperature. Made of die-cast aluminum alloy anodized for surface protection

O-RING OIL SEAL SYSTEM system between crankcase and rear cover

FORGED CONRODS connecting rods are one piece aluminum or bronze alloy which grant long durability

INTERNAL KINEMATISM with high quality oversized bearings that ensure long durability

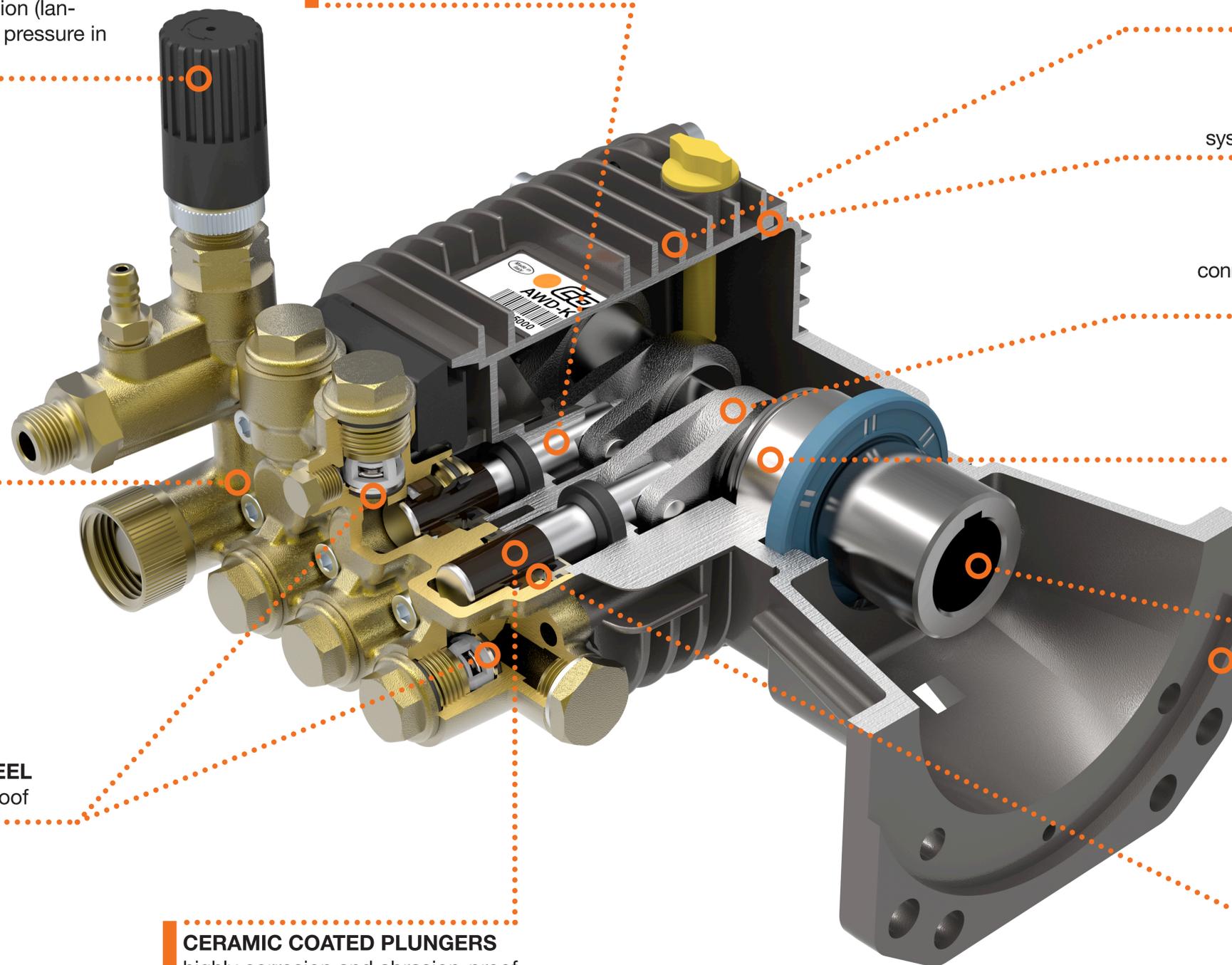
1" HOLLOW SHAFT WITH FLANGE for coupling to petrol engines

HIGH QUALITY DOUBLE SEALING SYSTEM

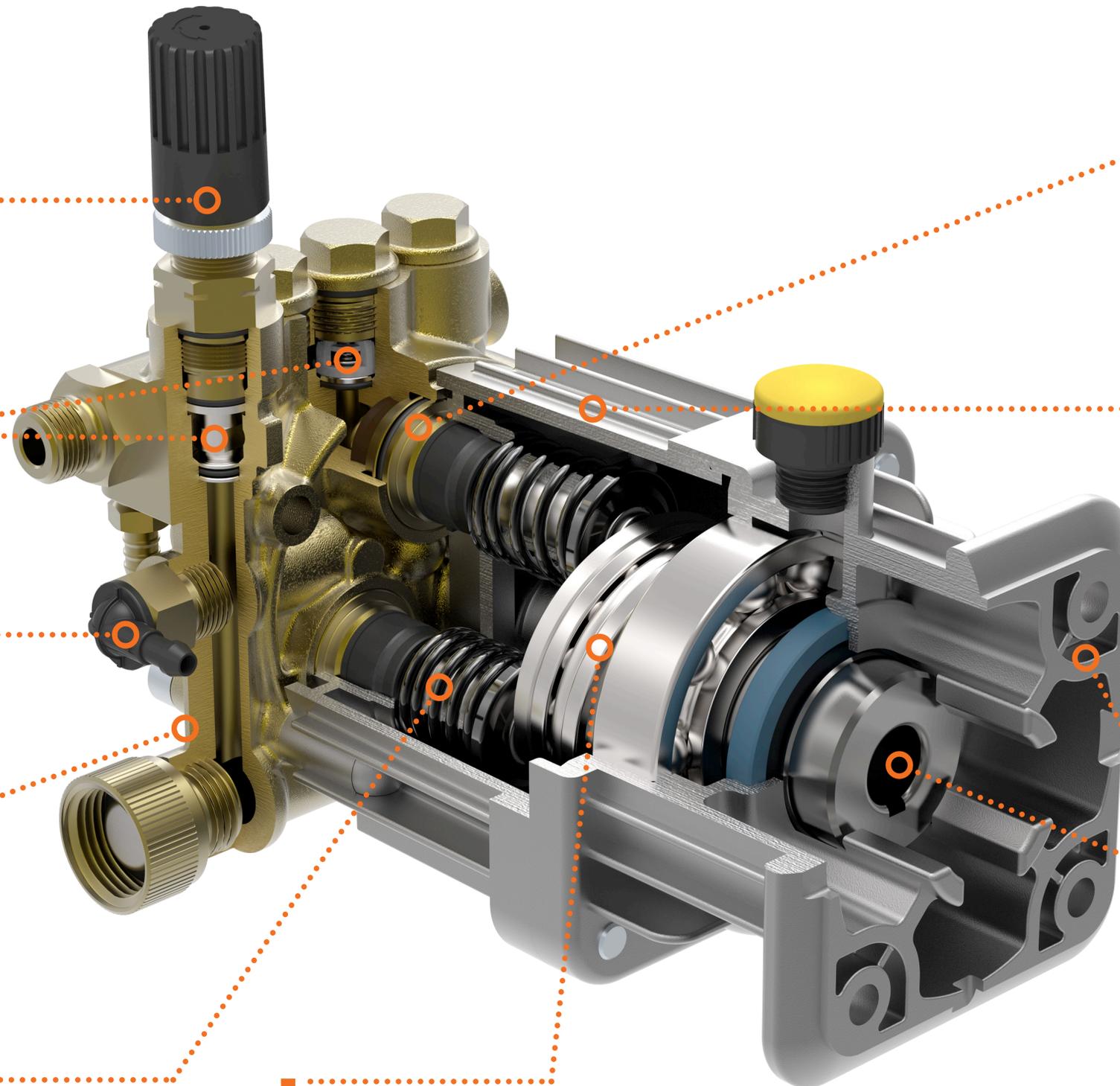
FORGED BRASS HEAD with high mechanical resistance and corrosion-proof

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves, corrosion-proof

CERAMIC COATED PLUNGERS highly corrosion and abrasion-proof



AXD-G



ADJUSTABLE UNLOADER with inner stainless steel parts and fitted with a check valve that ensures reliability and nozzles protection (lance nozzle and chemical ejector). Zero pressure in by-pass condition. Detergent ejector.

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves, corrosion-proof

THERMAL VALVE
on request

FORGED BRASS HEAD
with high mechanical resistance and corrosion-proof

COATED CERAMIC OR SPECIAL STAINLESS STEEL PISTONS
with great resistance to corrosion and abrasion.

INTERNAL KINEMATISM
with high quality ball bearings that guarantee reliability in time and a optimum response at high revolution per minute.

HIGH QUALITY DOUBLE SEALING SYSTEM

Aluminum die-cast **CRANKCASE WITH FINS** that grant optimal oil temperature

3/4" HOLLOW SHAFT WITH FLANGE
for coupling to petrol engines

GWD-K



ADJUSTABLE UNLOADER

with inner stainless steel parts and fitted with a check valve that ensures reliability and nozzles protection (lance nozzle and chemical ejector). Zero pressure in bypass condition. Detergent ejector.

STAINLESS-STEEL HARDENED PISTONS GUIDE

REVERSIBLE CRANKCASE COMPLETE

WITH FINS for low oil temperature. Made of die-cast aluminum alloy, anodized for surface protection

FORGED BRASS HEAD

with high mechanical resistance and corrosion-proof.

O-RING OIL SEAL SYSTEM

between crankcase and rear cover

FORGED CONRODS

connecting rods are one piece aluminum alloy which grant long durability

INTERNAL KINEMATISM

with high quality oversized bearings that ensure long durability

HIGHLY EFFICIENT STAINLESS STEEL

inlet and delivery valves, corrosion-proof.

SOLID CERAMIC PLUNGERS

highly corrosion and abrasion-proof.

HIGH QUALITY DOUBLE

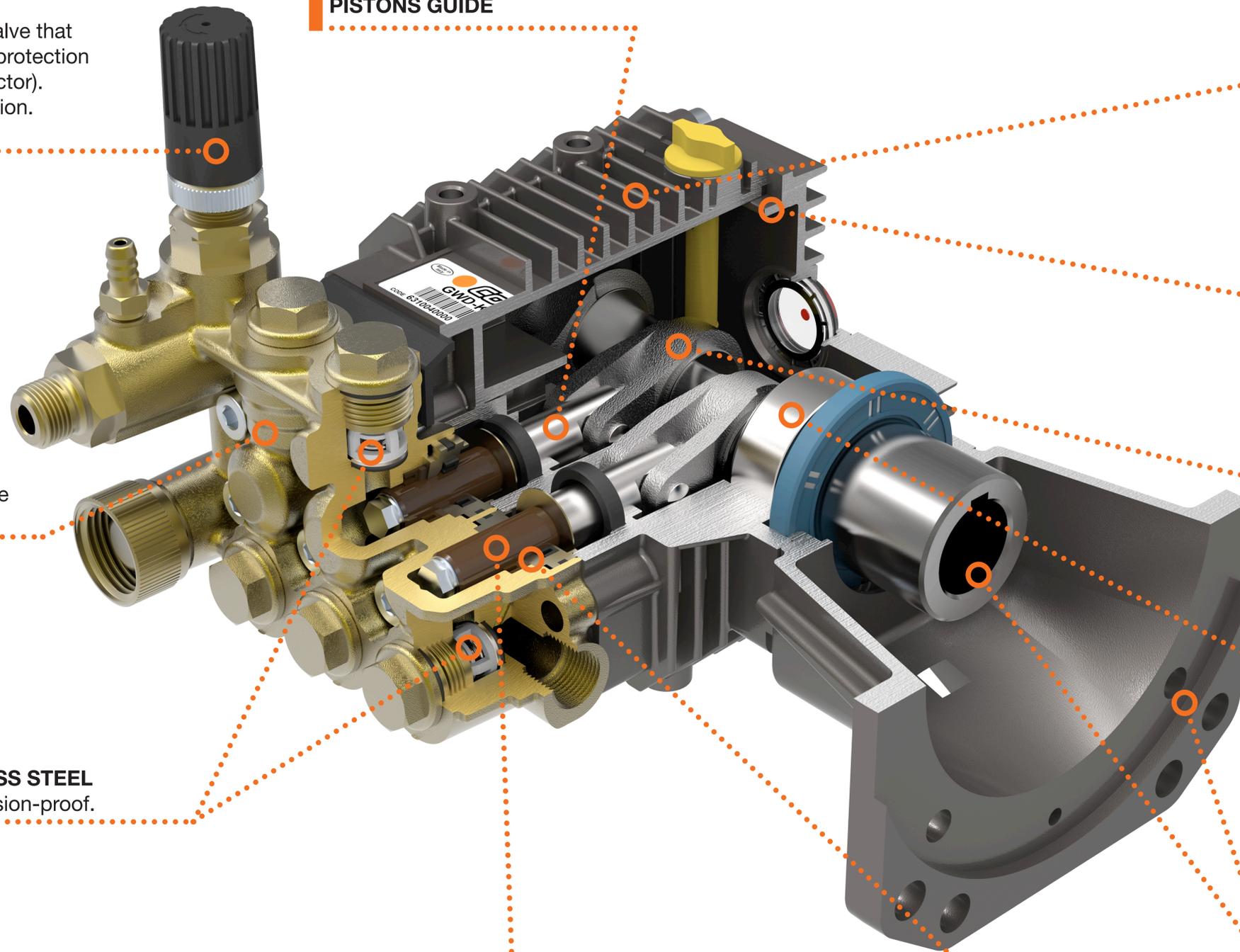
SEALING SYSTEM

› 5/8" HOLLOW SHAFT

with FLANGE for coupling to Nema 56 C electric motor

› 3/4" or 1" HOLLOW SHAFT

with FLANGE for coupling to petrol engines



LW

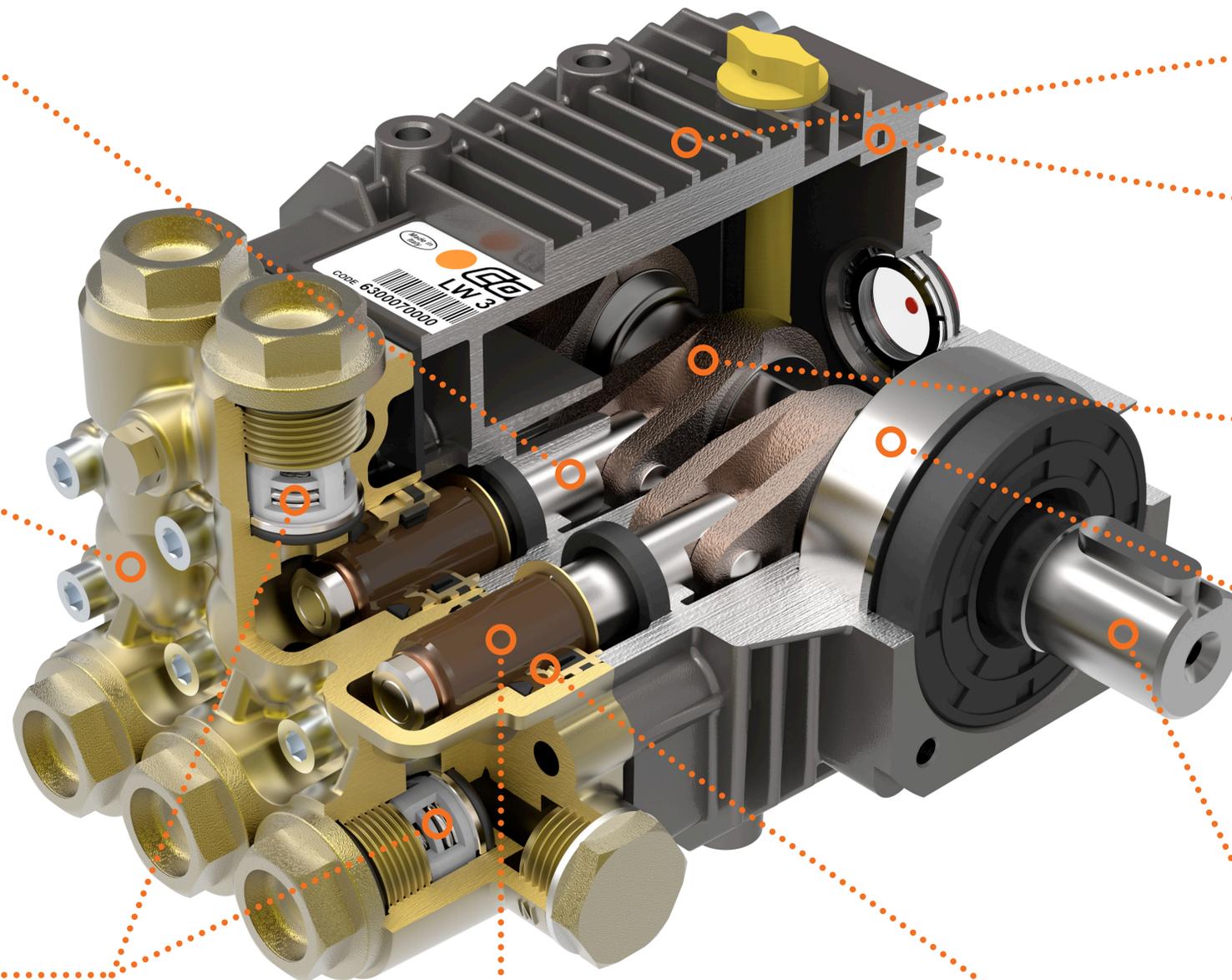


COMET
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STAINLESS STEEL HARDENED PISTONS GUIDE

FORGED BRASS HEAD
with high mechanical resistance and corrosion-proof.

HIGHLY EFFICIENT STAINLESS STEEL
inlet and delivery valves, corrosion-proof.



SOLID CERAMIC PLUNGERS
highly corrosion and abrasion-proof.

HIGH QUALITY DOUBLE SEALING SYSTEM

REVERSIBLE CRANKCASE COMPLETE WITH FINS for low oil temperature.
Made of die-cast aluminum alloy, anodized for surface protection

O-RING OIL SEAL SYSTEM
between crankcase and rear cover

FORGED CONRODS
connecting rods are one piece aluminum or bronze alloy which grant long durability

INTERNAL KINEMATISM
with high quality oversized bearings that ensure long durability

- › **Ø24 SOLID SHAFT** for coupling to pulley or hollow-shaft electric motor
- › **Ø24 or Ø28 HOLLOW SHAFT WITH FLANGE** for coupling to MEC electric motors
- › **5/8" HOLLOW SHAFT WITH FLANGE** for coupling to Nema 56C electric motor
- › **3/4" HOLLOW SHAFT WITH FLANGE** for coupling to petrol engines
- › **Ø20 HOLLOW SHAFT WITH FLANGE** for coupling to petrol engines with reduction gear

STAINLESS STEEL HARDENED PISTONS GUIDE

REVERSIBLE CRANKCASE COMPLETE WITH FINS
for low oil temperature. Made of die-cast aluminum alloy anodized for surface protection

O-RING OIL SEAL SYSTEM
system between crankcase and rear cover

FORGED BRASS HEAD
with high mechanical resistance and corrosion-proof.

FORGED CONRODS
connecting rods are one piece aluminum or bronze alloy which grant long durability

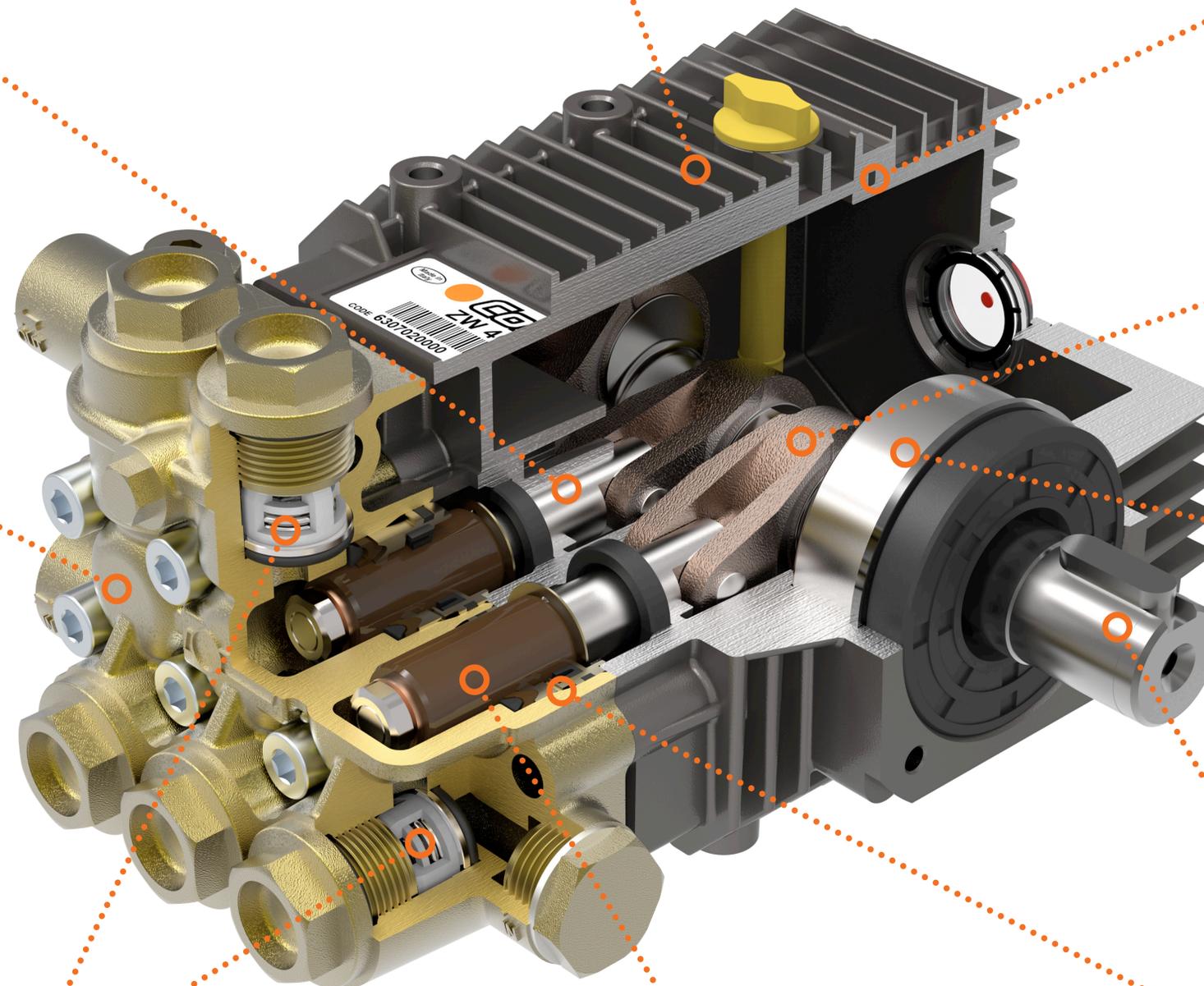
INTERNAL KINEMATISM
with high quality oversized bearings that ensure long durability

- › Ø24 SOLID SHAFT for coupling to pulley or hollow-shaft electric motor
- › Ø28 HOLLOW SHAFT WITH FLANGE for coupling to MEC electric motors.
- › 3/4" or 1" HOLLOW SHAFT WITH FLANGE for coupling to petrol engines.

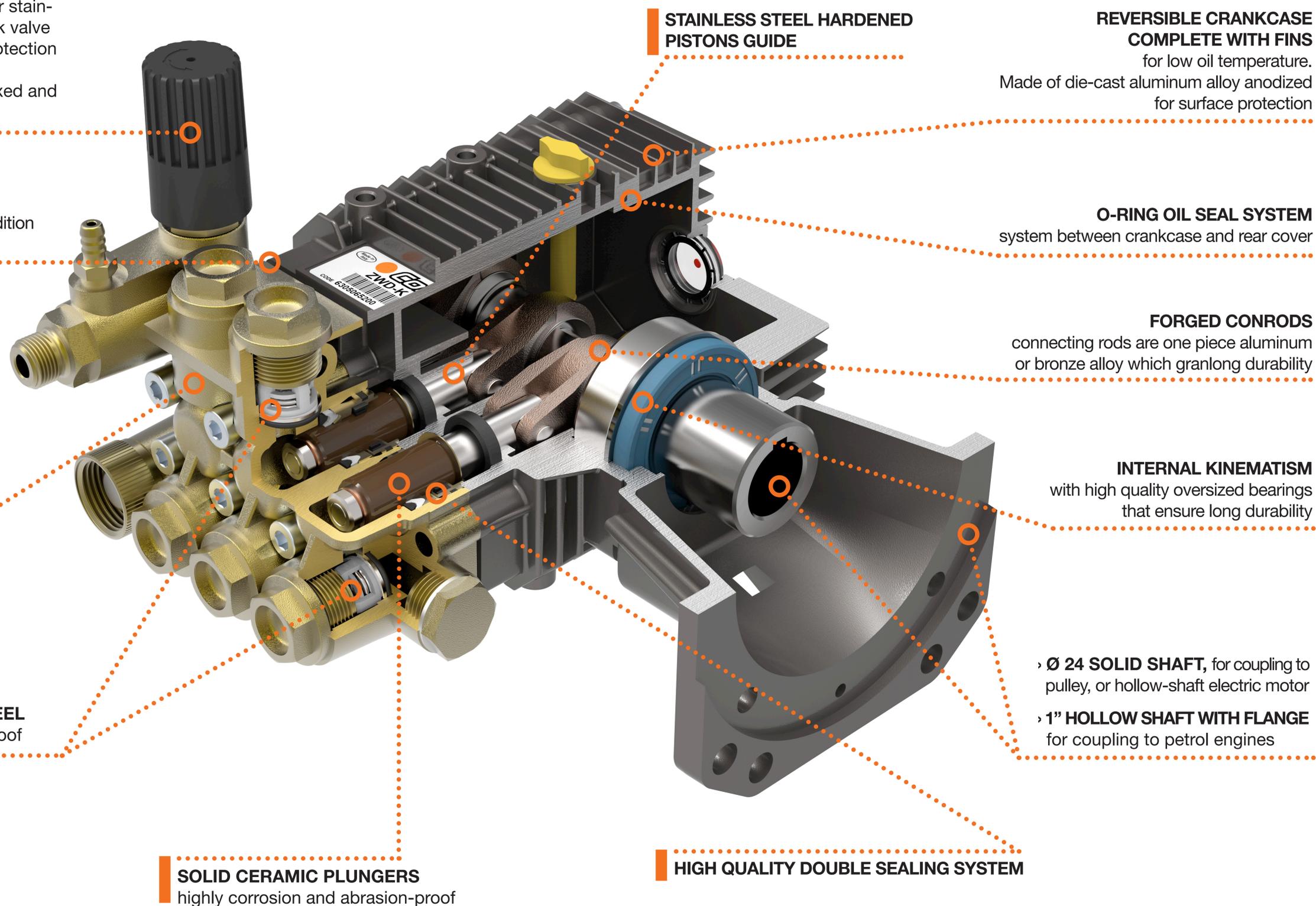
HIGHLY EFFICIENT STAINLESS STEEL
inlet and delivery valves, corrosion-proof.

SOLID CERAMIC PLUNGERS
highly corrosion and abrasion-proof.

HIGH QUALITY DOUBLE SEALING SYSTEM



ZW-K



ADJUSTABLE UNLOADER with inner stainless steel parts and fitted with a check valve that ensures reliability and nozzles protection (lance nozzle and chemical ejector). Zero pressure in bypass condition. Fixed and adjustable detergent ejector.

EASY-START SYSTEM that allow the motor to start in any condition (on ZW-K and ZWD-K 3540-4040)

FORGED BRASS HEAD with high mechanical resistance and corrosion-proof

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves, corrosion-proof

SOLID CERAMIC PLUNGERS highly corrosion and abrasion-proof

STAINLESS STEEL HARDENED PISTONS GUIDE

REVERSIBLE CRANKCASE COMPLETE WITH FINS for low oil temperature. Made of die-cast aluminum alloy anodized for surface protection

O-RING OIL SEAL SYSTEM system between crankcase and rear cover

FORGED CONRODS connecting rods are one piece aluminum or bronze alloy which grant long durability

INTERNAL KINEMATISM with high quality oversized bearings that ensure long durability

› **Ø 24 SOLID SHAFT**, for coupling to pulley, or hollow-shaft electric motor
› **1" HOLLOW SHAFT WITH FLANGE** for coupling to petrol engines

HIGH QUALITY DOUBLE SEALING SYSTEM

FW2

INTERCHANGEABILITY
of dimensions and couplings
with FW and HW pumps



STAINLESS-STEEL HARDENED PISTONS GUIDE (in common with FW and HW pumps)

REVERSIBLE CRANKCASE COMPLETE WITH FINS for low oil temperature.
Made of die-cast aluminium alloy, anodized for surface protection

O-RING OIL SEAL SYSTEM

between crankcase and rear cover

Bronze-alloy **CONRODS** made in a single piece (in common with the FW and HW pumps)

Solid **CERAMIC PLUNGERS**
(in common with FW, HW, RW pumps)
highly corrosion and abrasion-proof

LARGE SUPPORT SURFACE of gasket rings on crankcase

DOUBLE oil level VIEWER

FORGED BRASS HEAD
with high mechanical resistance and corrosion-proof (in common with FW and HW pumps)

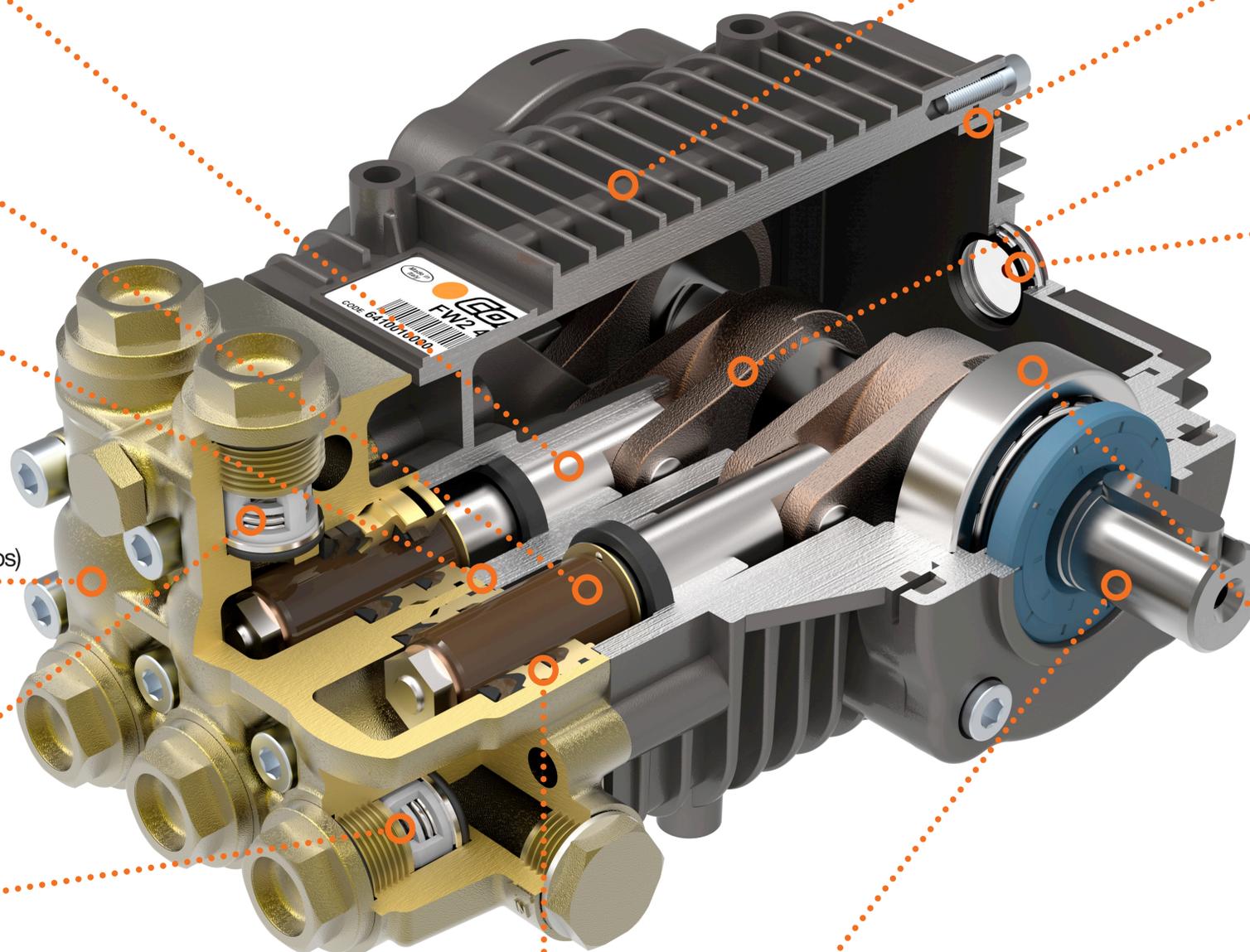


HIGHLY EFFICIENT CHECK VALVES in stainless steel
(in common with the FW and HW pumps)

Top-quality and oversized **CONICAL ROLLER BEARINGS** with **COVERS** for adjusting the pre-load
(in common with the RW pumps)

DOUBLE V-SHAPED BUNA-TEXTILE SEALS
(for high and low pressure) with intermediate lubrication and drip recovery (in common with the FW and HW pumps)

- › **Ø24 SOLID SHAFT** for coupling to pulley, to reduction gear or hollow-shaft electric motor
- › **1" HOLLOW SHAFT WITH FLANGE** for coupling to petrol engines
- › **1 1/8" HOLLOW SHAFT WITH FLANGE** for coupling to Nema 182-184TC electric motor
- › **Ø25 HOLLOW SHAFT WITH FLANGE** for coupling to petrol engine with reduction gear
- › **SHAFTS IN COMMON** with the RW pumps



RW



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STAINLESS STEEL HARDENED PISTONS GUIDE

CRANKCASE COMPLETE WITH FINS
for low oil temperature. Made of die-cast aluminum alloy anodized for surface protection

CONNECTING RODS
are one piece broze alloy

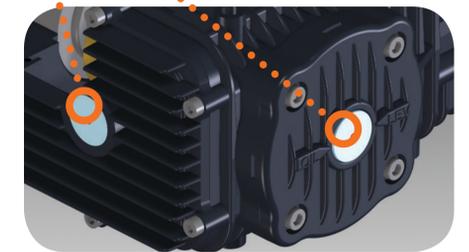
O-RING OIL SEAL SYSTEM
system between crankcase and rear cover

Top-quality and oversized
CONICAL ROLLER BEARINGS with
COVERS for adjusting the pre-load

DOUBLE oil level **VIEWER**

FORGED BRASS HEAD
with high mechanical resistance and corrosion-proof.

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves, corrosion-proof.



- › Ø24 **SOLID SHAFT** for coupling to pulley or hollow-shaft electric motor
- › 1" 1/8" **HOLLOW SHAFT WITH FLANGE** for coupling to Nema 182-184 TC electric motor
- › Ø25 **HOLLOW SHAFT WITH FLANGE** for coupling to petrol engines with reduction gear

EXCLUSIVE CRANKCASE OIL SEALING SYSTEM
it minimizes the wearing on pistons:

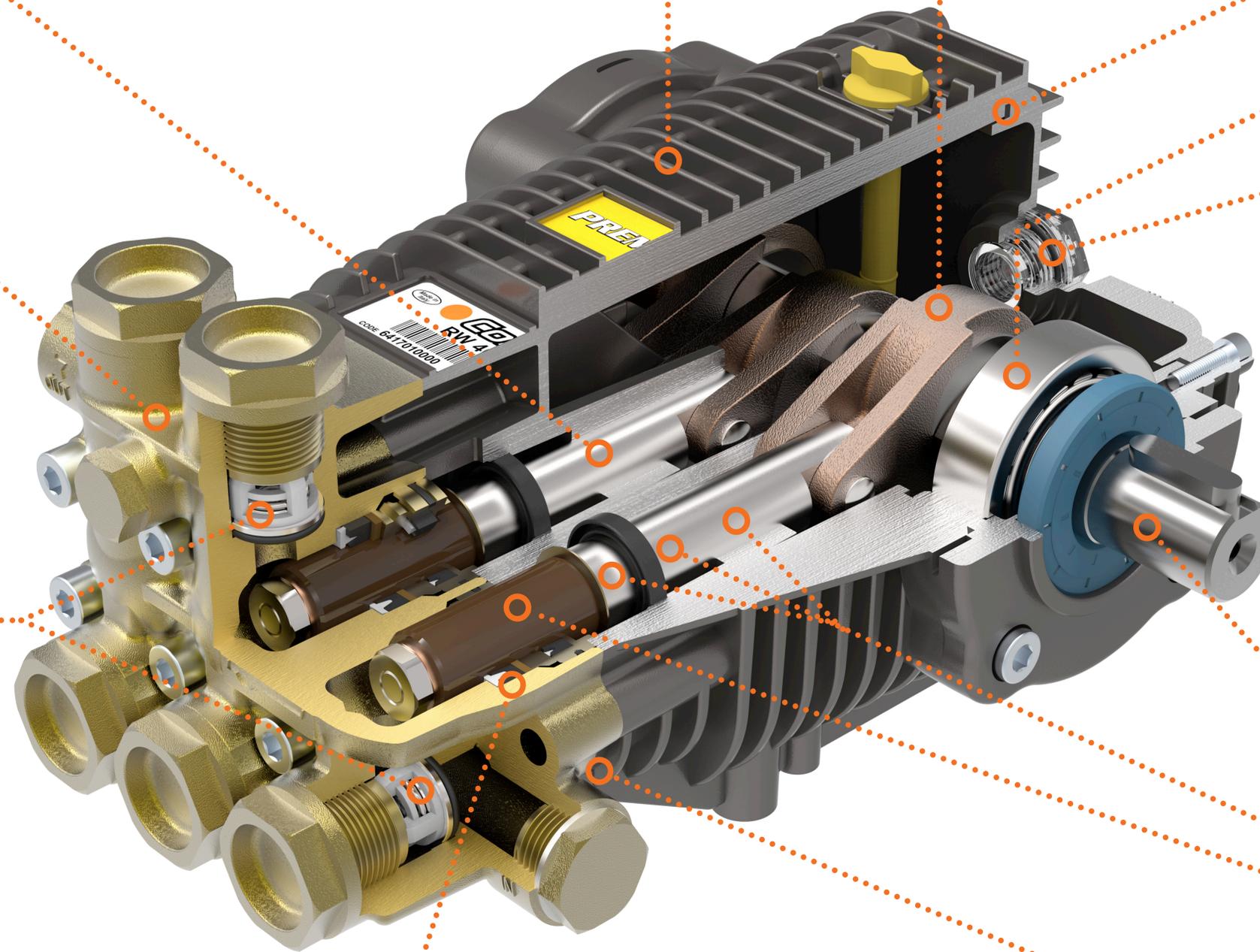
- › Wearable area
- › Oil seal working area

EXCLUSIVE PACKAGING SYSTEM

- › High pressure seals: high quality self lubricating Braided Graphite Packings
- › Low pressure seals: special buna-textile Packings with Anti-extrusion rings

EXCLUSIVE COUPLING SYSTEM BETWEEN PUMP HEAD AND CRANKCASE
it prevents dust and dirt from penetrating the area where pistons work, but allows water to exit

SOLID CERAMIC PLUNGERS
highly corrosion and abrasion-proof.



SW-TW



INCAPSULATED VALVE SEAT WITH O-RING AND ANTI-EXTRUSION
for models TW
with pressure starting
from 275 bar / 4000 p.s.i

CRANKCASE: DIE CAST ALUMINIUM ALLOY
anodized for protection against corrosion

OIL VENTED DIPSTICK

CRANKCASE COMPLETELY SURROUNDED
by large fins for an efficient oil cooling for
drastic reduction of operating temperature

High strenght forged
BRASS HEAD

O-RING SEALING SYSTEM
between crankcase and back cover

VALVE CAPS

have recessed the O-Ring turner into the pump head and reinforced it with an anti-extrusion ring to prevent the O-Ring from extruding under very high pressure (TW)

All sight **GLASSES**

CHECK VALVES

are stainless steel with highly efficient design

CONNECTING RODS
are one piece bronze alloy



Specific models fit 2 pieces high resistance aluminium alloy rods

PISTONS made
of solid ceramic

BEARINGS

are oversized, premium quality tapered roller bearings

EXCLUSIVE COUPLING SYSTEM BETWEEN PUMP HEAD AND CRANKCASE

It prevents dust and dirt from penetrating the area where pistons work, but allows water to exit (PATENT PENDING)



→ System to allow water to exit
→ System to prevent penetration of dust and dirt

Ø24 SOLID SHAFT

for electric motor or gearbox application

PISTON GUIDES

are heat treated stainless steel



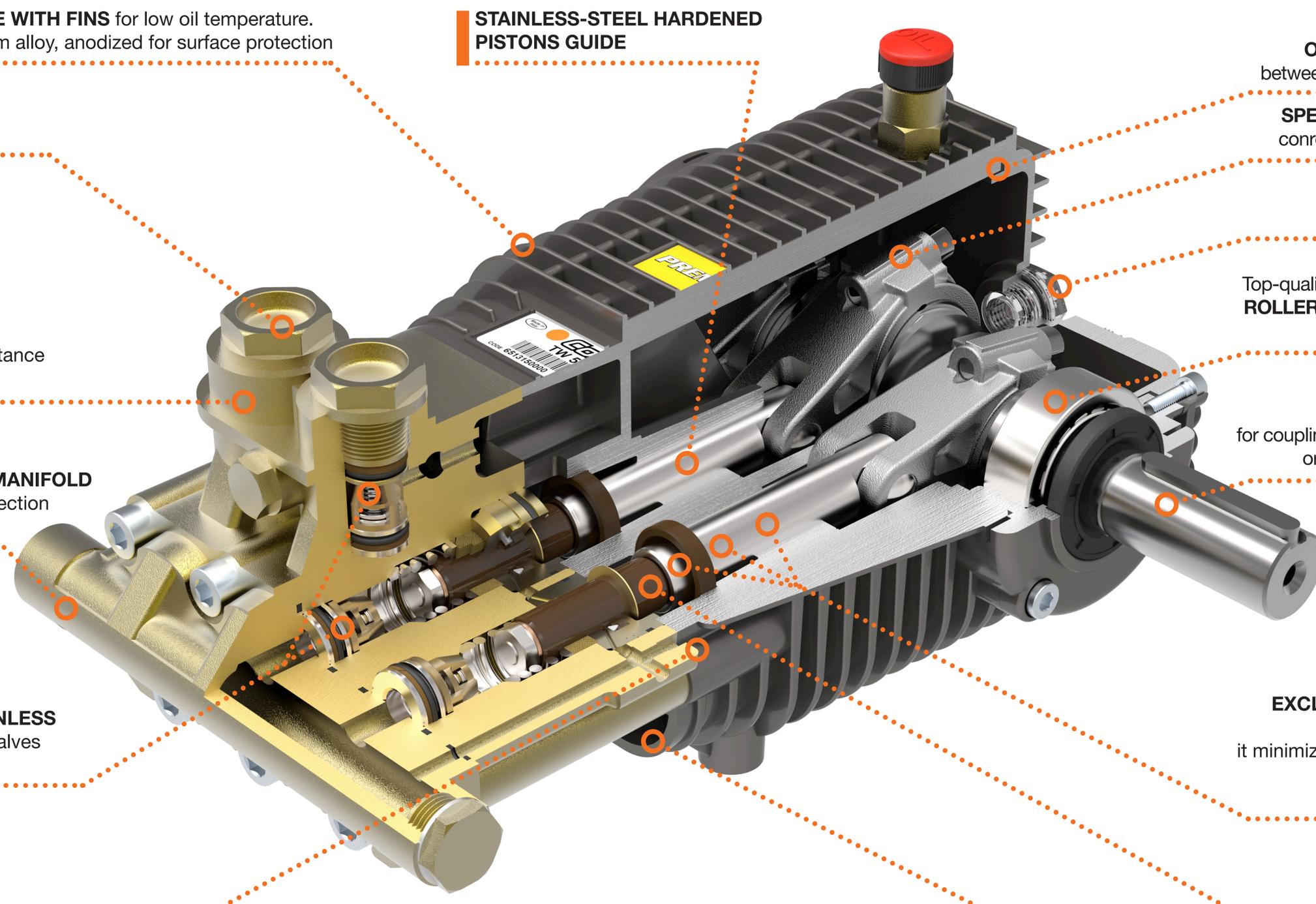
EXCLUSIVE PACKING SYSTEM
New self lubricating double packing design with special bunatexile seals and bronze rings for an exceptional packing life

EXCLUSIVE CRANKCASE OIL SEALING SYSTEM

It minimizes the wearing on pistons oil seals (PATENT PENDING)
■ oil seals working area
■ wearable area



TW › TWS 500 bar



CRANKCASE COMPLETE WITH FINS for low oil temperature.
Made of die-cast aluminium alloy, anodized for surface protection

STAINLESS-STEEL HARDENED PISTONS GUIDE

DELIVERY VALVES PLUG

O-RING OIL SEAL SYSTEM
between crankcase and rear cover

SPECIAL ALUMINIUM ALLOY
conrods made in a double piece

OIL LEVEL VIEWER

Top-quality and oversized **CONICAL ROLLER BEARINGS** with **COVERS** for adjusting the pre-load

FORGED BRASS HEAD
with high mechanical resistance and corrosion-proof

Ø 24-30 SOLID SHAFT
for coupling to pulley, to reduction gear or hollow-shaft electric motor

REMOVABLE SUCTION MANIFOLD
for easy check valves inspection

HIGHLY EFFICIENT STAINLESS STEEL inlet and delivery valves
corrosion-proof

EXCLUSIVE CRANKCASE OIL SEALING SYSTEM
it minimizes the wearing on pistons:
› Wearable area
› Oil seal working area

EXCLUSIVE PACKAGING SYSTEM
› High pressure seals: high quality self lubricating Braided Graphite Packings
› Low pressure seals: special buna-textile Packings with Anti-extrusion rings

EXCLUSIVE COUPLING SYSTEM BETWEEN PUMP HEAD AND CRANKCASE
it prevents dust and dirt from penetrating the area where pistons work, but allows water to exit

SOLID CERAMIC PLUNGERS
highly corrosion and abrasion-proof