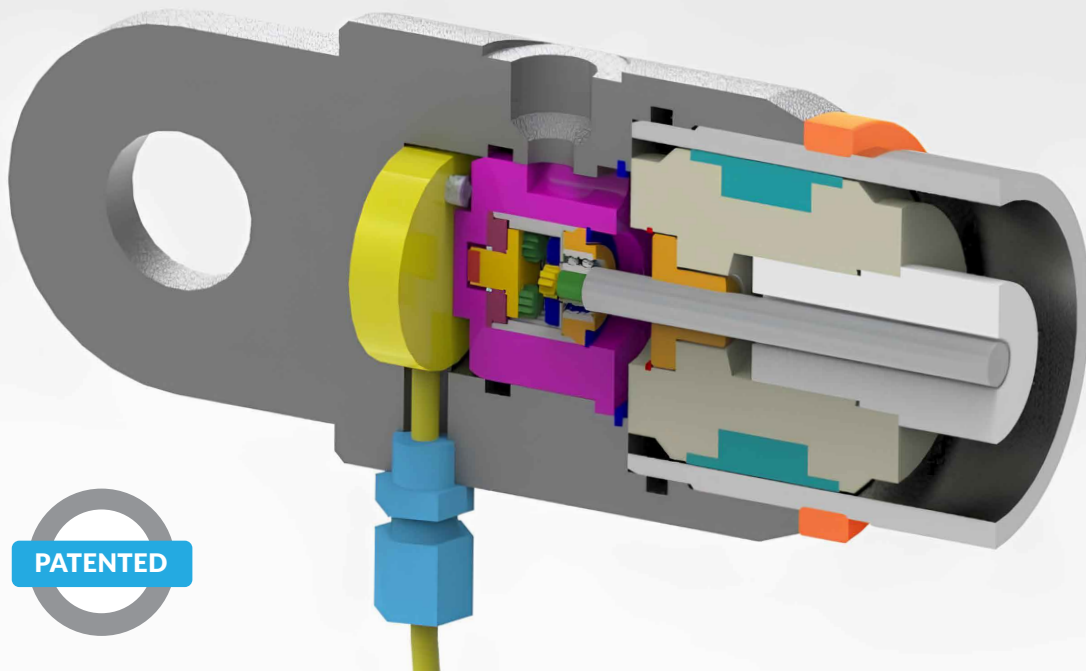


E.C.O. VM-HY

 **TRASDUTTORE DI POSIZIONE ROTO-LINEARE "VITE-MADREVITE" PER APPLICAZIONE SU CILINDRI OLEODINAMICI SALDATI**

 **"LEAD SCREW AND NUT" ROTOLINEAR POSITION TRANSDUCER FOR APPLICATION ON WELDED HYDRAULIC CYLINDERS**



E.C.O. Vite Madrevite è un kit di trasduzione roto-lineare per applicazione interna al cilindro fluidodinamico. Si compone di una vite a più principi, ancorata al fondello posteriore, che attraversa una madrevite inserita nel pistone e penetra nella apposita foratura interna prevista nello stelo.

Un sensore angolare o encoder magnetico esterno al fondello rileva senza contatto la rotazione del magnete inserito nell'estremità posteriore della vite, immerso e pressurizzato dal fluido.

Il risultato tra la corsa meccanica lineare del pistone e il giro (o suoi multipli) del sensore/encoder, è un segnale elettrico digitale di tipo incrementale o analogico assoluto, anche ridondante.

Onde evitare la rotazione del pistone e della madrevite durante il movimento lineare, l'estremità anteriore dello stelo deve essere sempre vincolata meccanicamente.

- **Pressione massima di esercizio: 250 bar**

- **Temperatura di esercizio: -25°C +80°C**

- **Risoluzione della misura lineare: +/- 0.25mm**

- **Ripetibilità della misura lineare: da 0% a 1% dell'intera corsa in funzione delle derive termiche**



E.C.O. Lead Screw and Nut is a rotolinear transduction kit for internal application in fluid-dynamic cylinders.

It consists of a multi-start screw anchored to the rear plug end, which passes through a nut inserted in the piston and enters the internal hole provided in the rod.

An angular sensor or magnetic encoder external to the plug end detects, without contact, the rotation of the magnet inserted in the rear end of the screw, immersed and pressurized by the fluid.

The result of the linear mechanical stroke of the piston and the rotation (or its multiples) of the sensor/encoder is an incremental digital or absolute analog electrical signal, which may also be redundant.

To prevent rotation of the piston and nut during linear movement, the front end of the cylinder rod must always be mechanically constrained.

- **Maximum operating pressure: 250 bar**

- **Operating temperature -25°C +80°C**

- **Linear measurement resolution: +/- 0.25mm**

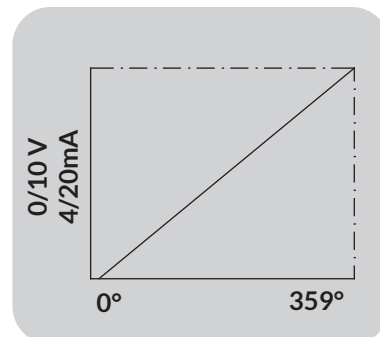
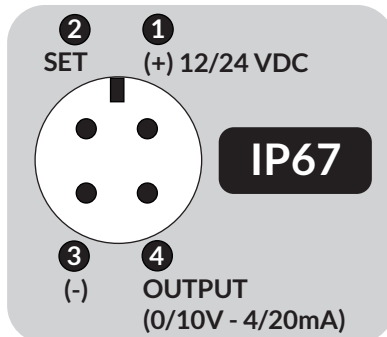
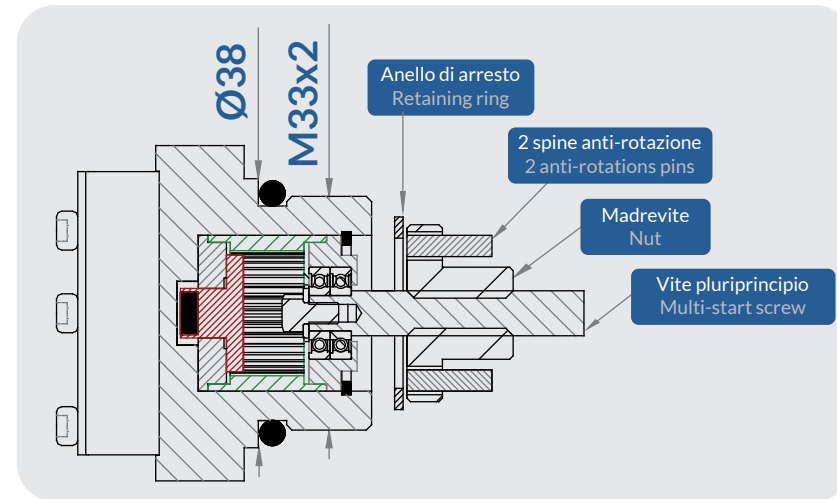
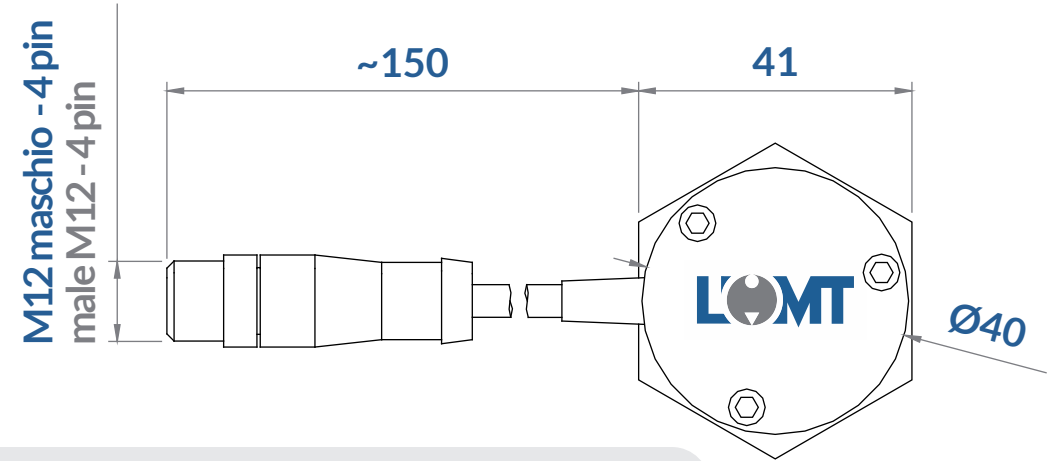
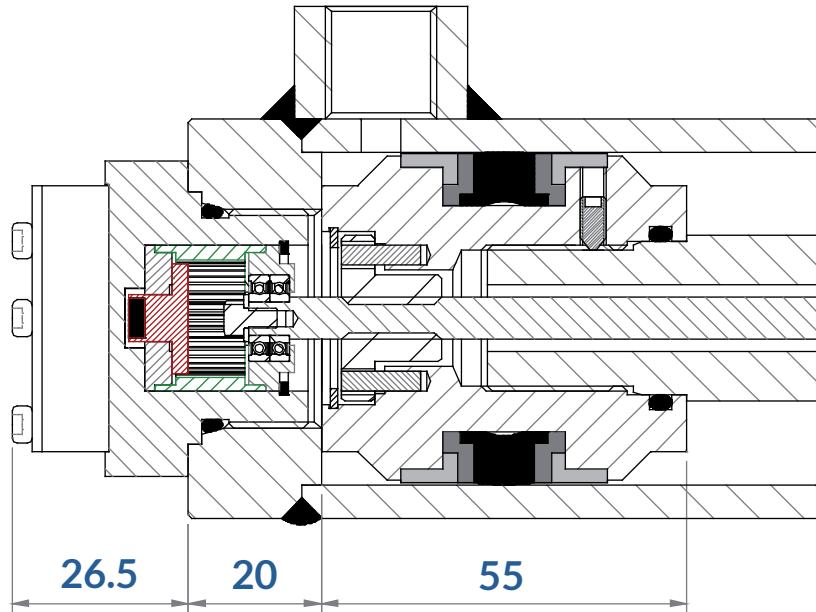
- **Linear measurement repeatability: from 0% to 1% of the entire stroke depending on thermal drifts**



Kit di trasduzione ANALOGICO su cilindro oleodinamico Ø50/25 (fondello "libero")



ANALOG transduction kit on hydraulic cylinder Ø50/25 (plain end plug)



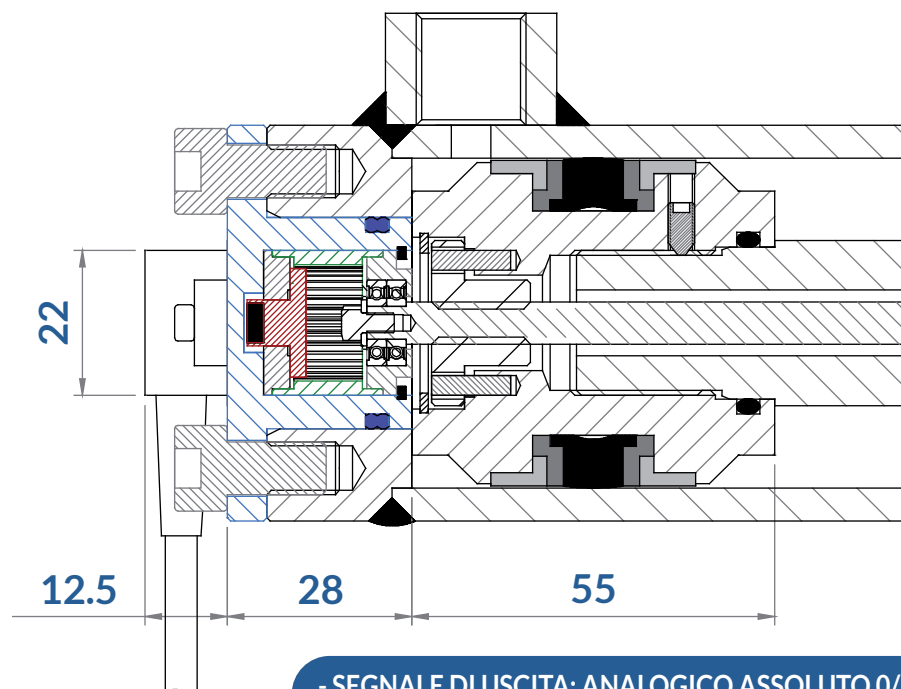
- SEGNALE DI USCITA :ANALOGICO ASSOLUTO 0/10V; 4/20mA
- OUTPUT SIGNAL: ANALOG ABSOLUTE 0/10V; 4/20mA
- SET DI "0" SOFTWARE / "0" SET VIA SOFTWARE
- CORSE STD / STD STROKES : 50-100-125-150-200-250-300-400-500-625mm (su richiesta / on request 25 - 700 - 800 - 900 - 1000)
- ORIENTAMENTO USCITA CAVO DI 60° IN 60° / CABLE OUTPUT ORIENTATION: 60° STEPS



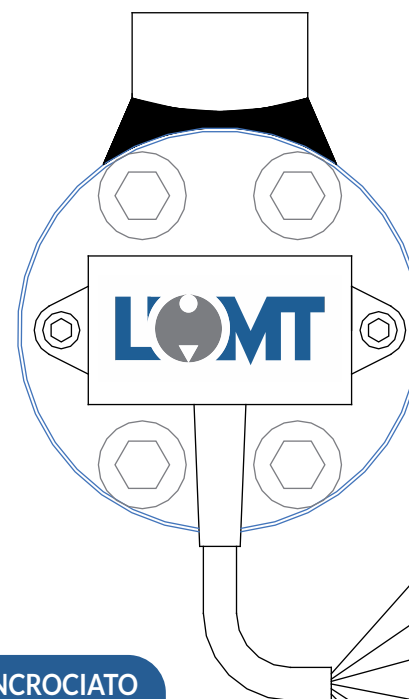
Kit di trasduzione ANALOGICO DUALE su cilindro oleodinamico Ø50/25 (fondello "libero")



DUAL ANALOG transduction kit on hydraulic cylinder Ø50/25 (plain end plug)



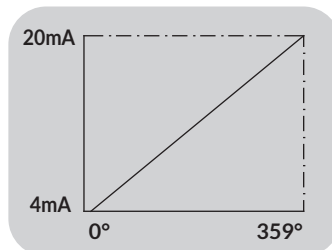
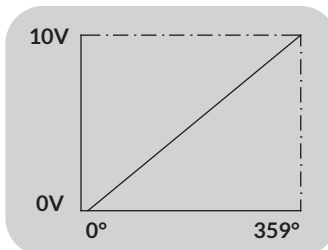
- SEGNALE DI USCITA: ANALOGICO ASSOLUTO 0/10V-10/0V; 4/20mA-20-4mA INCROCIATO
- OUTPUT SIGNAL: ANALOG ABSOLUTE 0/10V-0/10V; 4/20mA-20-4mA CROSSED
- SET DI "0" SOFTWARE / "0" SET VIA SOFTWARE
- CORSE STD / STD STROKES : 50-100-125-150-200-250-300-400-500-625mm
(su richiesta / on request 25 - 700 - 800 - 900 - 1000)
- ORIENTAMENTO USCITA CAVO SU 4 LATI / CABLE OUTPUT ORIENTATION ON 4 SIDES
- CIRCUITI ELETTRONICI SEPARATI GALVANICAMENTE
- GALVANICALLY ISOLATED ELECTRONIC CIRCUITS



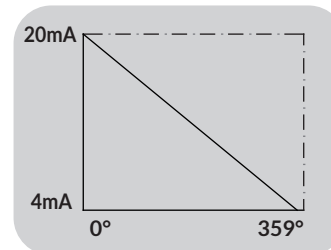
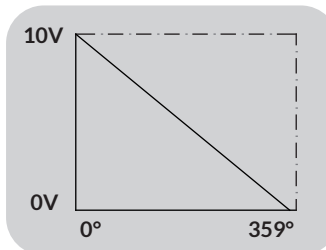
- GND 1 (BROWN) (-)
- SIGNAL 2 (BLUE) 10/0V-20/4mA
- SIGNAL 1 (WHITE) 0/10V-4/20mA
- VCC 1 (GREEN) (+) 12/24VDC
- GND 2 (BLACK) (-)
- VCC 2 (RED) (+) 12/24VDC

IP67

SIGNAL 1



SIGNAL 2

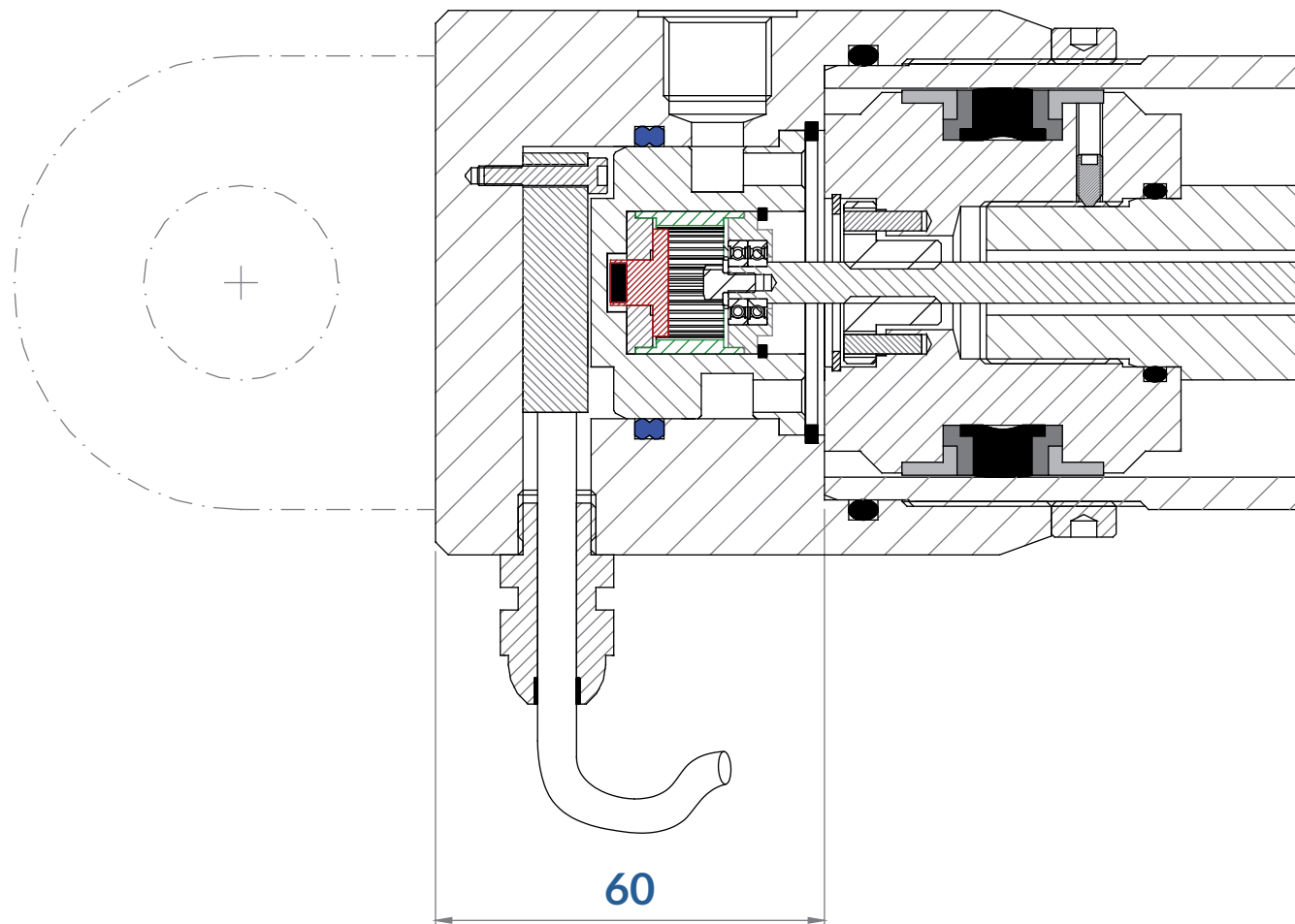




Kit di trasduzione ANALOGICO o INCREMENTALE con fondello filettato



ANALOG or INCREMENTAL transduction kit with threaded end plug



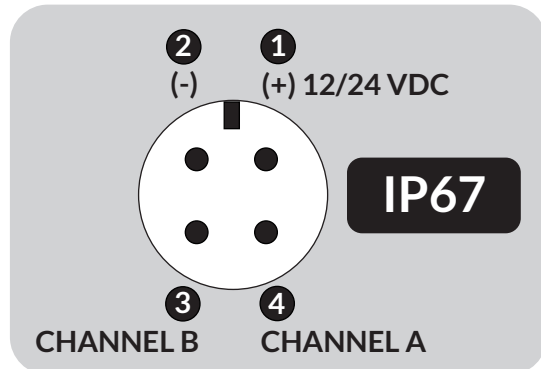
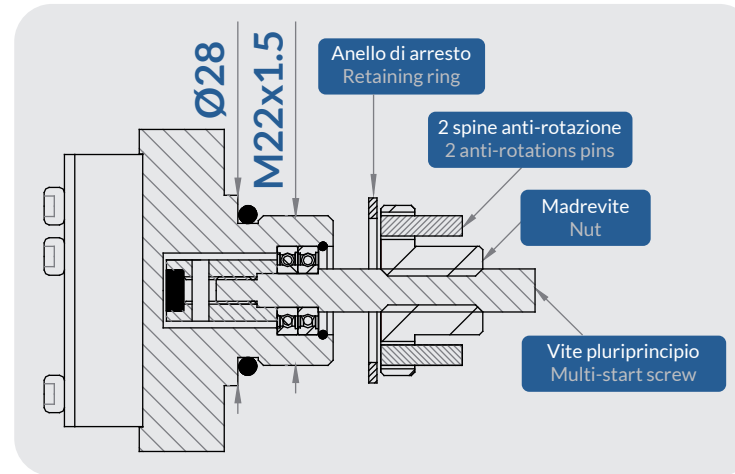
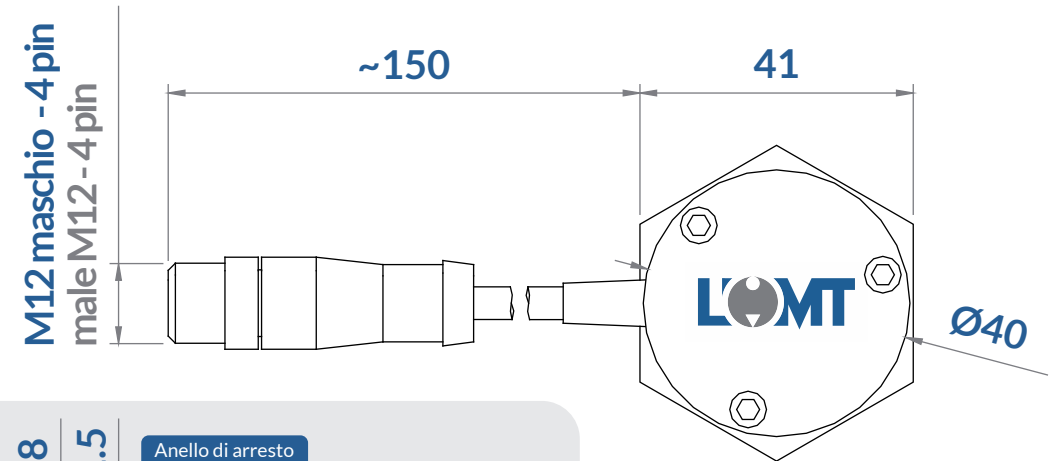
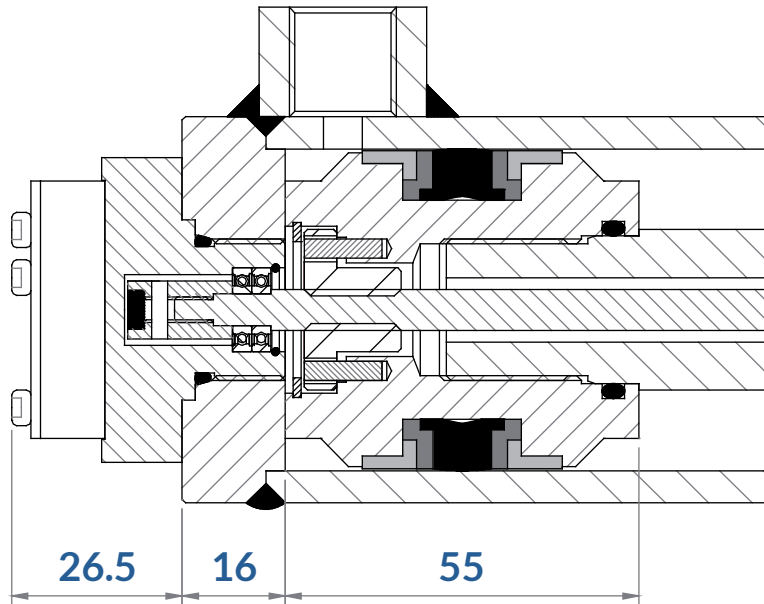
**SENSORE INTERNO CON ELEVATO GRADO DI PROTEZIONE,
IDONEO PER SALDATURA DI TERMINALI POSTERIORI.
INTERNAL SENSOR WITH HIGH DEGREE OF PROTECTION,
SUITABLE FOR REAR WELDABLE ENDS.**



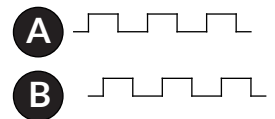
Kit di trasduzione INCREMENTALE su cilindro oleodinamico Ø50/25 (fondello “libero”)



INCREMENTAL transduction kit on hydraulic cylinder Ø50/25 (plain end plug)



- SEGNALE DI USCITA ENCODER IN QUADRATURA / QUADRATURE ENCODER OUTPUT SIGNAL
 - CANALE A + CANALE B SFASATI DI 90° / CHANNEL A + CHANNEL B OUT OF PHASE BY 90°
 - OPZIONE SEGNALE ZERO, CAVO 5 POLI SENZA CONNETTORE
 - ZERO SIGNAL OPTION, 5 POLES CABLE WITHOUT CONNECTOR
 - SET DI "0" ESTERNO ALL'ENCODER / "0" SET EXTERNAL TO THE ENCODER
 - CORSE DISPONIBILI / AVAILABLE STROKES:
- fino a 700mm (MONTAGGIO IN ORIZZONTALE) / up to 700mm (HORIZONTAL MOUNTING);
fino a 1000mm (MONTAGGIO IN VERTICALE) / up to 1000mm (VERTICAL MOUNTING).





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The information contained in this brochure may be subject to change without notice.