



TRASDUTTORE EFFETTO HALL **SERIE T/TM** HALL EFFECT TRANSDUCER **T/TM SERIES**

Descrizione

I trasduttori serie T e TM trovano il loro ottimale utilizzo nelle seguenti applicazioni:

- Riscaldamento (caldaie murali)
- Sistemi di condizionamento
- Sistemi a caldaia (vapore)
- Applicazioni industriali
- Trattamento acque

Costituito da un sensore di Hall, lo sviluppo di questo trasduttore si basa sul concetto della sollecitazione di un semiconduttore mediante magnete.

Il trasduttore serie TM è una variante della serie T con l'aggiunta di un manometro che permette la visualizzazione della pressione anche in assenza di alimentazione.

E' costruito con tecnopolimero rinforzato e l'elemento sensibile in AISI 301.

L'utilizzo della tecnologia di saldatura ad ultrasuoni, rende omogeneo e stabile nel tempo l'accoppiamento dei componenti che costituiscono il prodotto, evitando giunzioni metalliche o rivettature.

Description

Transducer T and TM Series is best suited to the following applications:

- Heating (wall heaters)
- Air conditioning systems
- Boiler systems (steam)
- Industrial applications
- Water treatment

The development of this transducer, which consists of a Hall sensor, is based on the concept of using a magnet to affect a semiconductor.

TM Series development consist of gauge indicator let to check the pressure value without electric supply.

It is constructed in reinforced thermoplastic and sensitive element in AISI 301.

Ultrasonic welding system, make the coupling homogeneous and stable for a long time avoiding metal joints or rivets.

Caratteristiche Costruttive / Construction Features

Involucro plastico / Plastic Casing	Polyaryllamide Solvay (disponibile anche con materiali omologati IEC 60695-2-12 GWFI, e alimentare). Polyaryllamide Solvay (also available as IEC 60695-2-12 GWFI approved materials).
Membrana / Membrane	AISI
Tenuta / Seal	EPDM; VITON; SILICONE; NBR
Sensore / Sensor	Programmazione lineare / Linear programming
Connessione / Connector	RAST 2,5 (AMP duoplug type)
Grado di protezione / Protection Class	IP 00
Peso / Weight	~ 23 grammi / grams

Caratteristiche Funzionali / Operational Features

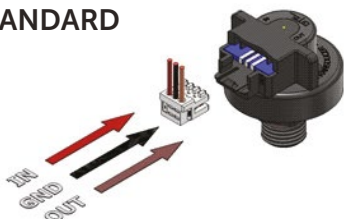
Campo di lavoro / Operating Range	$0 \div 4 \text{ bar} / 0 \div 6 \text{ bar} / 0 \div 10 \text{ bar}$	$0 \div 12 \text{ bar} / 0 \div 20 \text{ bar}$
Pressione di sovraccarico / Overload Pressure	$\leq 15 \text{ bar}$	$\leq 25 \text{ bar}$
Pressione di rottura / Breakdown Pressure	$> 20 \text{ bar}$	$> 30 \text{ bar}$
Temperatura fluido / Fluid Temperature	$\leq 110^\circ \text{C}$	
Temperatura ambiente / Environmental Temperature	$-20^\circ \text{C} \div 85^\circ \text{C}$	
Fluido / Fluid	Liquido, gas, acqua contenete le usuali concentrazioni ed additivi per circuiti di riscaldamento e glicole. Liquid, gas, or water containing the usual concentrations and additives for heating circuits and glycols.	
Manometro / Manometer	Visualizzazione indicativa 0 - 3 bar (solo serie TM). Display 0 - 3 bar (only TM serie).	

Caratteristiche Elettriche / Electrical Features

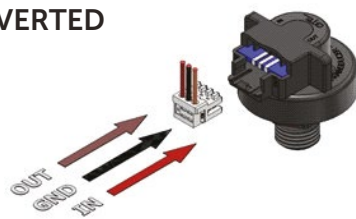
Alimentazione / Supply	5 Vdc; 8...30 Vdc (Available on request with anti-revers diod)
Segnale di uscita / Output Signal	0.5...2.5Vdc / 0.5...3.5Vdc / 0...3Vdc / 0.5...4Vdc / 0.5...4.5Vdc
(Segnale di uscita personalizzato / Custom output)	
Assorbimento / Current consumption	$< 9 \text{ mA}$
Carico resistivo / Resistance Load	$\geq 4,7 \text{ K}\Omega$
Carico capacitivo / Capacitance Load	$\leq 10 \text{ nF}$

Connessioni elettriche / Electric connections

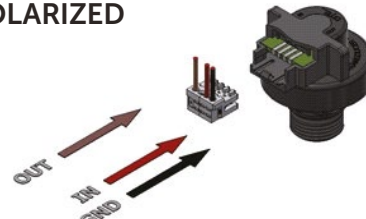
RAST 2.5 -
STANDARD



RAST 2.5 -
INVERTED



RAST 2.5 -
POLARIZED



Omologazioni / Approvals

- EMC 2014/30EU
- Tutti i nostri prodotti sono conformi alla direttiva europea RoHS e REACH.
All our products conform to the 2002/95/EC European directive RoHS and REACH.



Stoccaggio / Storage

- Evitare che il trasduttore venga a contatto con polveri.
Avoid the transducer coming into contact with powders.
- Non immagazzinare in luoghi con umidità condensata.
Do not store in locations with humidity condensation.
- Temperatura di stoccaggio / storage temperature -25°C

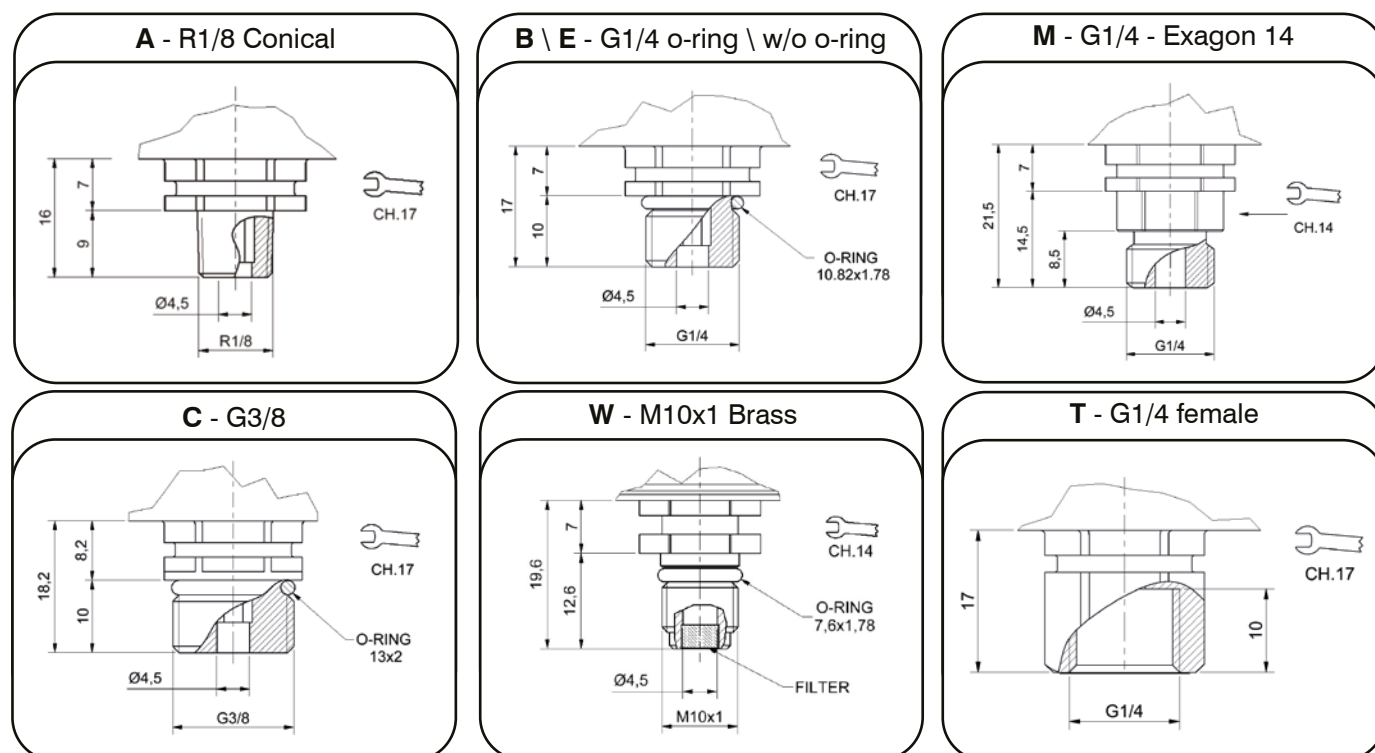
Codifica / Code scheme

Esempio / Example:

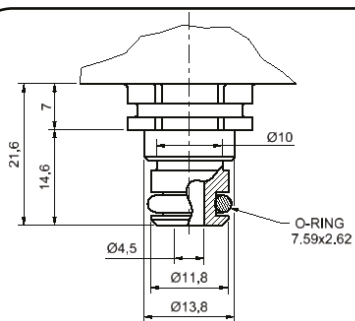
T C B A A 00

1 Series	2 Type	3 Connection	4 Voltage Output	5 Voltage Input	6 Custom
T/TM	C - Heating (wall heaters)	A - R1/8 Conical	A - 0,5÷2,5 Vdc	A - 5 Vdc	00 - Standard 0...4bar
VE (vuoto)	V - Steam	B - G1/4 + o-ring	B - 0,5÷3,5 Vdc	B - 8÷30 Vdc	01 - Input and output inverted
TT	I - Industrial applications	C - G3/8	C - 0,5÷3,0 Vdc		50 - Support / card polarized
	A - Food contact	D - Fast connection Ø14	D - 0,5÷3,5 Vdc Ratiometric		60 - 0...6 bar
	O - Brass	E - G1/4 Without o-ring	E - 0,5÷4,0 Vdc Ratiometric		70 - Connection with inlet filter
	S - Inox	F - RILSAN ø 6 mm	F - 0,5÷2,5 Volt Ratiometric		
		G - Adaptor G1/4 plastic	G - 0,5÷4,5 Vdc Ratiometric		
		H - Fast connection	H - 0,5÷3,0 Vdc Ratiometric		
		I - Fast connection	I - 0,0÷10 Vdc		
		K - Adaptor John Guest Ø6	L - 0,3÷4,8 Vdc Ratiometric		
		L - Adaptor G1/4 brass	V - 1,125÷3,4 Vdc		
		M - Exagon ch.14 mm - G1/4			
		N - Circulator connection			
		P - RILSAN ø 6,35 mm			
		R - Fast connection			
		S - Adaptor G1/8 brass			
		T - G1/4 female			
		U - RILSAN Ø8,00			
		V - Fast connection			
		W - M10x1 (brass) + o-ring			
		X - Adaptor John Guest Ø4,00			
		Y - Adaptor John Guest Ø6,35			
		Z - Adaptor John Guest Ø8,00			

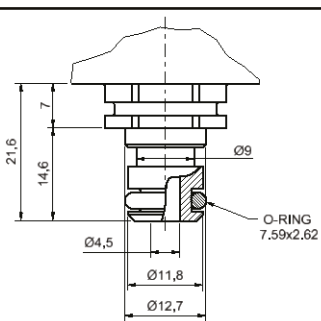
Connessioni / Connection



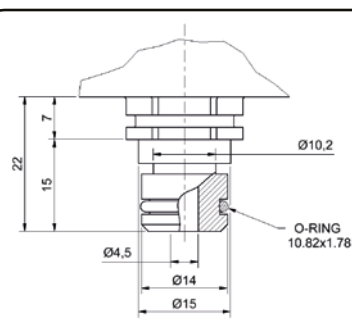
I - Fast connection



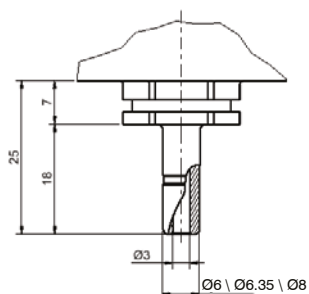
R - Fast connection Ø 12,7 mm



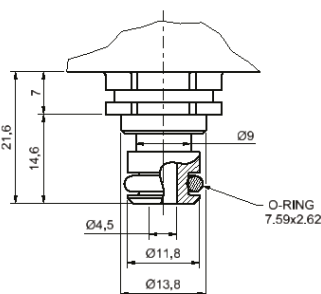
D - Fast connection Ø14



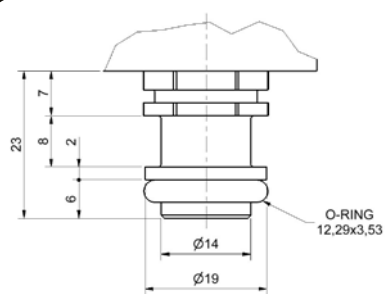
F \ P \ U - Rilsan Ø6 \ Ø6.35 \ Ø8



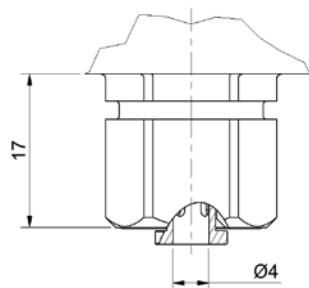
H - Fast connection



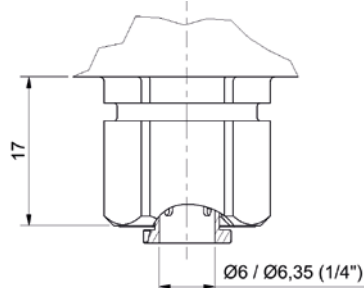
N - Circulator connection



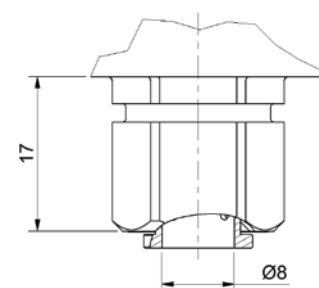
X - Adaptor JGØ4



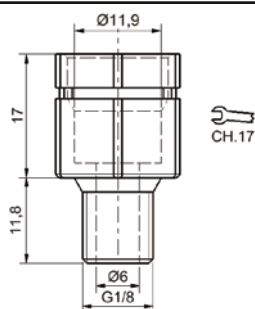
K \ Y - Adaptor JGØ6\Ø6.35 (1/4")



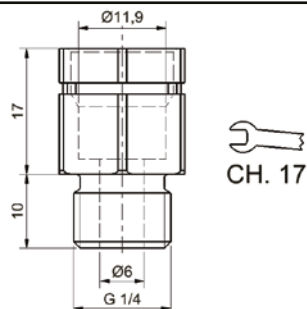
Z - Adaptor JGØ8



S - Adaptor G1/8 brass



G \ L - Adaptor G1/4 Plastic \ Brass



Transducer with Hydraulic Connection - John Guest

WATER TREATMENT



- Feature:
- Food contact material
 - Long working life and small dimensions
 - Male and Female connection

Transducer with Hydraulic Connection - Gas thread and Adjustable connection

HVAC



Trasduttore con filtro in entrata.
Transducer with inlet filter.



- Feature:
- Male and Female Gas thread (also with brass adapter) or adjustable connection
 - Different configurations: RAST 2.5 IN-GND-OUT; RAST 2.5 OUT-GND-IN; RAST 2.5 POLARIZED OUT-N-GND-IN
 - Long working life and small dimensions
 - High and Low pressure range

Trasduttore con manometro in plastica e in ottone.
Gauge Transducer with plastic and brass body.



Trasduttore con attacco in metallo.
Transducer with metallic body.



BRASS

INOX