



Nominal Diameter

13/20/25



TEMA Series

TH5000/7500/10000

80% of actual size

**Technical Description**

The TH series is a further development of the standard hydraulic coupling, with some new materials to stand up to heavy conditions. The body of the coupling is made of steel so that the coupling functions reliably even when subject to substantial lateral forces and high impulses.

**Advantages**

High flow rate – minimum pressure drop. Twice as safe through double sealing. Safety closing ring prevents unintentional uncoupling. Maximum protection against corrosion. Small dimensions. Pressure eliminator for coupling and plug available. Possible to connect up to working pressure.

**Working Pressure**

See chart.

**Working Temperature**

-30°C up to +100°C (NBR)  
-25°C up to +200°C (FKM)  
depending on the medium.

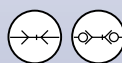
\*At a temperature below -25°C and above +200°C special seals are available on request.

**Connected length in total:**

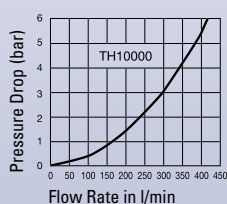
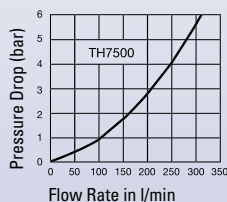
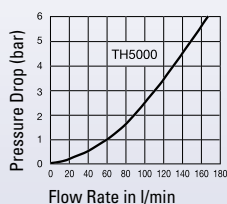
TH5000 = 82 mm

TH7500 = 91 mm

TH10000 = 108 mm

**Available Valves****Components**

Lubrication Nipple  
Dust Protection  
Seal-Kits  
(see corresponding pages T-Series)

**Flow Capacity Viscosity for 32cSt at 40°C as per ISO 7241/2-2000****Material****Coupling**

Coupling Body  
Sleeve  
Locking Ring  
Valve  
Springs  
Locking Balls  
Seals  
Valve Holder

**Standard**

Steel, Zinc Plated, Yellow passivated, sealed  
Steel, Hardened, Zinc Plated, Yellow passivated, sealed  
Brass, Zinc-iron coated, Black passivated, sealed  
Brass  
AISI 301  
AISI 420 C  
NBR/FKM  
Brass, Hard-drawn

**Plug**

Plug Body  
Valve  
Springs  
Seals  
Valve Holder

Steel, Hardened, Zinc Plated, Yellow passivated, sealed  
Brass  
AISI 301  
NBR/FKM  
Brass, Hard-drawn

**Pressure (Coupling/Plug)**

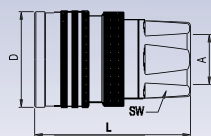
TH5000  
TH7500  
TH10000

**Bursting Pressure coupled**

> 1200 bar/1200 bar  
> 1200 bar/1200 bar  
> 1120 bar/1120 bar

**Working Pressure uncoupled**

250 bar/250 bar  
300 bar/250 bar  
280 bar/250 bar

**Couplings****TEMA Series TH5000/7500/10000**

Female Thread

Dimension/Connection A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1/2	30	65	40	with	320	Standard	NBR	TH5010	■
G 1/2	30	65	40	with	320	Standard	FKM	TH5010 V	■□
G 3/4	38	73	52	with	300	Standard	NBR	TH7510	■□
G 3/4	38	73	52	with	300	Standard	FKM	TH7510 V	■□
G 1	45	88	62	with	280	Standard	NBR	TH10010	■□
G 1	45	88	62	with	280	Standard	FKM	TH10010 V	■□

DS = Delivery Status:

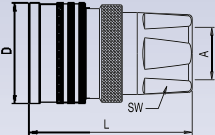
■ in stock

■□ on short call

■□ medium term delivery

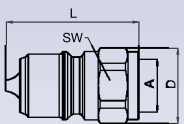
## Couplings with Pressure Eliminator

## TEMA Series TH5000/7500/10000

	Dimension/ Connection A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS	
 <p>Female Thread</p>	G 1/2	30	65	40	with	320	Standard	NBR	TH5011	■□	
	G 1/2	30	65	40	with	320	Standard	FKM	TH5011 V	■□	
	G 3/4	38	73	52	with	300	Standard	NBR	TH7511	■□	
	G 3/4	38	73	52	with	300	Standard	FKM	TH7511 V	■□	
	G 1	45	88	62	with	280	Standard	NBR	TH10011	■□	
	G 1	45	88	62	with	280	Standard	FKM	TH10011 V	■□	

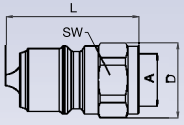
## Plugs

## TEMA Series TH5000/7500/10000

	Dimension/ Connection A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS	
 <p>Female Thread</p>	G 1/2	27	46	30	with	320	Standard	NBR	T5020	■	
	G 1/2	27	46	30	with	320	Standard	FKM	T5020 V	■	
	G 3/4	36	52	39	with	300	Standard	NBR	T7520	■	
	G 3/4	36	52	39	with	300	Standard	FKM	T7520 V	■□	
	G 3/4	36	52	39	with	300	Standard	NBR	T7520 S <sup>1)</sup>	■□	
	G 3/4	36	52	39	with	300	Standard	FKM	T7520 SV <sup>1)</sup>	■□	
	G 1	46	60	49	with	280	Standard	NBR	T10020	■	
	G 1	46	60	49	with	280	Standard	FKM	T10020 V	■	

## Plugs with Pressure Eliminator

## TEMA Series TH5000/7500/10000

	Dimension/ Connection A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS	
 <p>Female Thread</p>	G 1/2	27	47	30	with	320	Standard	NBR	T5021	■	
	G 1/2	27	47	30	with	320	Standard	FKM	T5021 V	■□	
	G 3/4	36	53	39	with	300	Standard	NBR	T7521	■	
	G 3/4	36	53	39	with	300	Standard	FKM	T7521 V	■□	
	G 3/4	36	53	39	with	300	Standard	NBR	T7521 S <sup>1)</sup>	■□	
	G 3/4	36	53	39	with	300	Standard	FKM	T7521 SV <sup>1)</sup>	■□	
	G 1	46	61	49	with	280	Standard	FKM	T10021	■□	
	G 1	46	61	49	with	280	Standard	FKM	T10021 V	■□	

DS = Delivery Status: ■ in stock

■□ on short call

□□ medium term delivery

<sup>1)</sup> TEMA super nipple, special heavy-duty material for highest requirements.