



WE MAKE YOUR TECHNOLOGY WORK

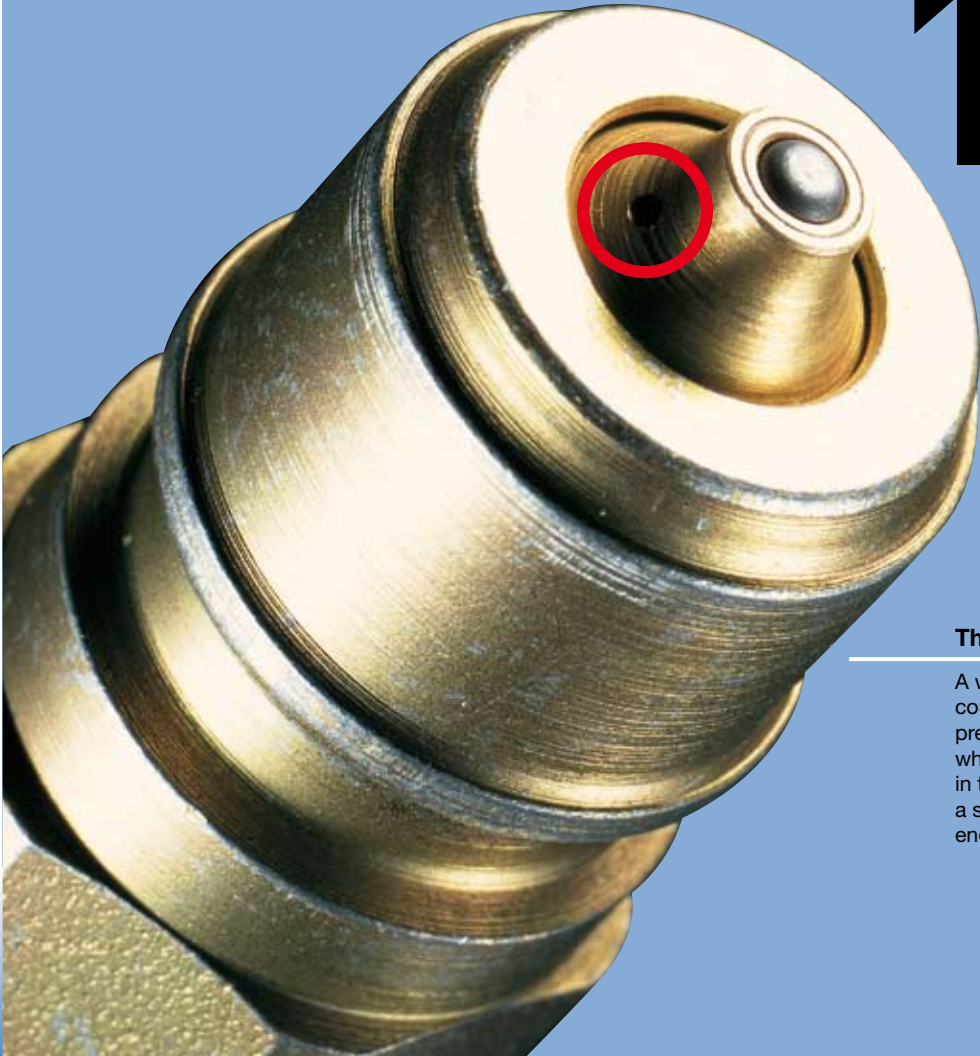
MEDIUM-/HIGH-PRESSURE SYSTEMS. HYDRAULIC SOLUTIONS IN TEMA BRAND QUALITY.



With our Tema connection system in the medium and high pressure range, we offer proven standard solutions for almost every possible application area in liquids technology. Our products are important function

components in many mobile and stationary industrial and hydraulic systems, working safely and reliably even under the harshest conditions.

up to 1500 bar



The Pressure Eliminator

A well-known nuisance in practice: coupling under dynamic or residual pressure. With the pressure eliminator, which automatically releases the pressure in the coupling, this problem finally has a solution! A test will be more than enough to convince you.



Medium-Pressure

TEMA Profiles	TEMA T-Series	Robust industry-standard product. Meets high quality requirements. Very reasonable cost-use ratio. Can be supplied with pressure eliminator.	from page 364
	TEMA TH-Series	Development of the standard T series. Suitable for extreme loads. Steel design for highest requirements. Can be supplied with pressure eliminator.	from page 386
	TEMA TFF-Series	For extreme operating conditions and fault-free operation. FlatFace principle. Can be supplied with pressure eliminator.	from page 388
Norm-Profiles	TEMA TIA-Series	Norm specification ISO 7241-1 series A. 1/2" design with pressure eliminator.	from page 402
	TEMA TIB-Series	Norm specification ISO 7241-1 series B. Can be supplied in brass, steel, galvanised and in stainless steel. Can be supplied with pressure eliminator.	from page 412
	TEMA TIF-Series	Norm specification ISO 16028. Also available in stainless steel. FlatFace principle. Fitted coupling. Can be supplied with pressure eliminator.	from page 428
	TEMA MULTI-LINE®	Multi-Coupling Systems	from page 448
Accessories	Measuring Systems	Easy to operate, multi-purpose measuring and control systems for monitoring hydraulic and pneumatic systems.	from page 451
	Accessories	Swivel joints, pressure relief valves, adapters, hinged lid and multi-coupling components.	from page 458

High-Pressure

High-Pressure	TEMA THP-Series	Special high pressure couplings for extreme conditions. 1000 or 1500 bar. High flow.	from page 470
	Accessories	Large selection of adapters for the THP series.	from page 474

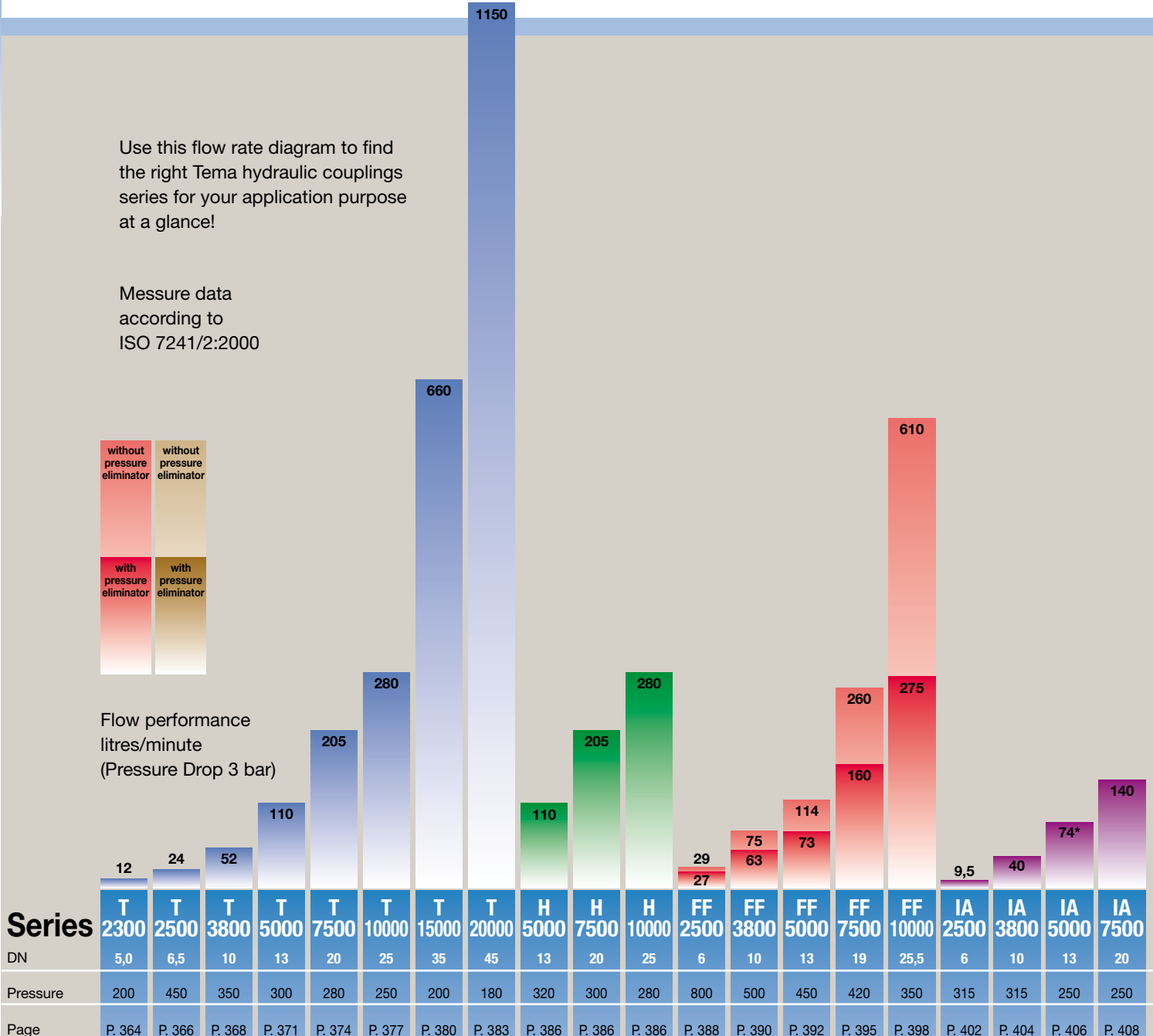
OUR ENTIRE PERFORMANCE CAPACITY AT A GLANCE.

Use this flow rate diagram to find the right Tema hydraulic couplings series for your application purpose at a glance!

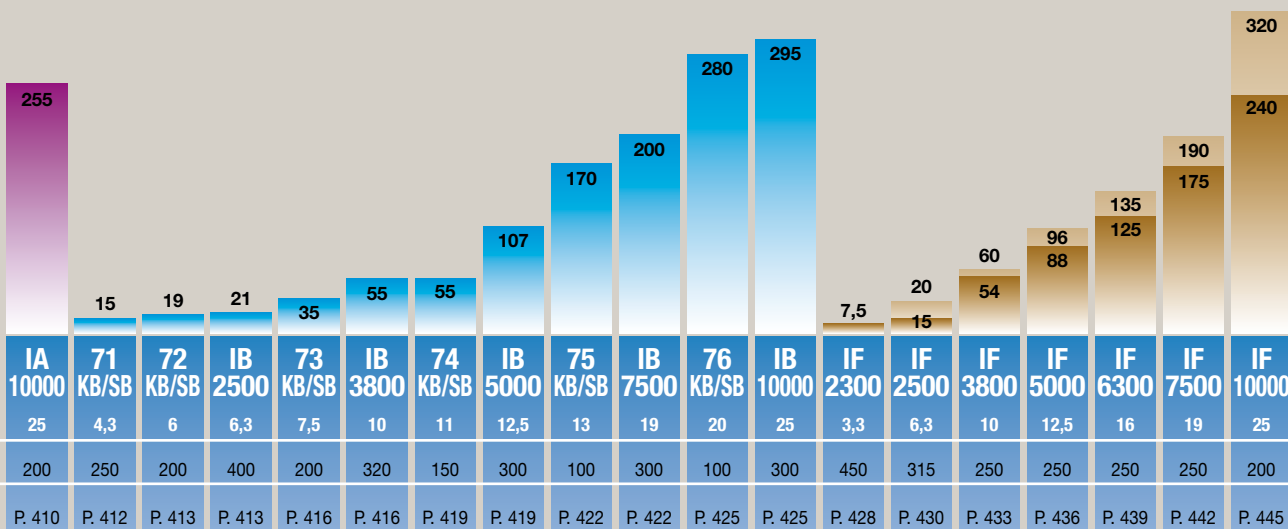
Messure data according to ISO 7241/2:2000



Flow performance litres/minute (Pressure Drop 3 bar)



* Version T5500 86 litres/min.



Series
DN

Pressure

Page

ABOVE ALL ELSE, OUR SYSTEMS OFFER YOU GREATER SAFETY.

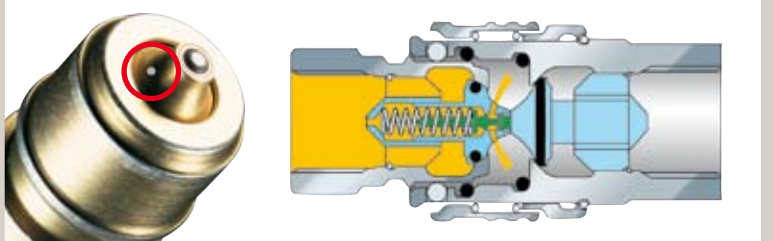
The FlatFace Concept

Dirt-proof Tema FlatFace couplings (IF/FF) have the following advantages: Non-drip, dry-break function on disconnection, no air enclosure during connection and extremely flat surfaces to ensure easy cleaning. Depending on the application, the FlatFace concept is the ideal alternative for an environmental high-quality solution.



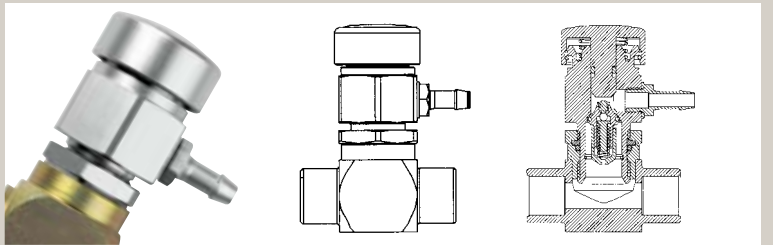
The Pressure Eliminator

By using this innovative Tema patented technology, residual pressures in hydraulic lines can be overcome smoothly and without effort. The use of a micro-valve, incorporated in the coupling or plug will automatically release any residual pressure on reconnection.



The Pressure Relief Valve

A pressure relief valve mounted directly in the pressurised line will release the dynamic pressure in this hydraulic system by pushing a button. Attached couplings can now be coupled pressure-free! After coupling, release the button to re-pressurise.



Lubrication Nipple

The Tema lubrication nipple is a vital accessory item in order to prevent dirt to enter into couplings in disconnected position. It will also prevent freezing up of the coupling mechanism. The nipple is simple to use, just reconnect onto coupling body and you can easily protect internal mechanical parts using a standard grease-gun. A valuable accessory item in many climate zones.





O-Rings / Profile rings

Depending on the application, Tema couplings are equipped with seals in various alternative material qualities, e.g. NBR, FKM, EPDM or PUR. In many ranges, double O-ring seals are even used as standard in order to increase safety.



ISO 7241-1, A Series



ISO 7241-1, B Series



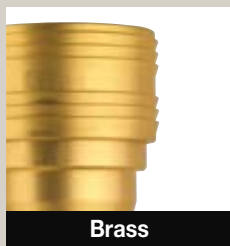
ISO 16028

ISO-Profiles

In order to offer maximum interchangeability, the Tema IA (ISO A) , IB (ISO B) and IF (ISO F) series have been designed to conform to the latest international ISO-specifications. This will ensure full compatibility with all standard couplings and plugs which conform to the same specifications.



Steel



Brass



Stainless Steel

Material Qualities

Depending on working pressures and applications, Tema couplings are being offered in hardened steel or brass. In addition, numerous series can be supplied as standard in stainless steel (AISI 316). Series 70 - 76 are manufactured in steel, brass and stainless steel (AISI 303/316 Ti).



zinc pl., pass., sealed



Chrome-plated



additional sealed



nitrocarburised

Surface Finish

Galvanised, passivated and sealed: to prevent corrosion.

Nitrocarburisation: a surface hardening. The product acquires a black colour.

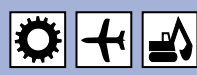


Nominal Diameter

5 = 20 mm²

TEMA Series

T2300



actual size

Technical Description

The T2300 hydraulic coupling is characterised by a low pressure drop and maximum flow capacity. The coupling system is available as double shut-off, straight through or single shut-off version. Also available in stainless steel.

Connected length in total:
59 mm

Material

- Coupling**
- Coupling Body
- Sleeve
- Valve
- Springs
- Locking Balls
- Seals

Plug

- Plug Body
- Valve
- Springs
- Seals

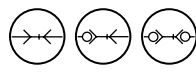
Pressures

- Bursting Pressure coupled
- Working Pressure uncoupled

Advantages

Straight-through – minimum pressure drop. High operating pressure. Corrosion resistant. Compact dimensions.

Available Valves



Standard

- Brass, Nickel Plated and Chromated
- Brass, Nickel Plated
- Brass
- AISI 301
- AISI 420 C
- NBR/FKM

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 -40°C and above +200°C special seals are available on request.

Stainless Steel

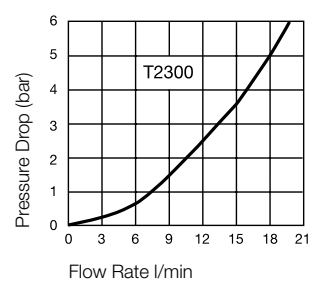
- AISI 316
- AISI 316
- AISI 316
- AISI 301
- AISI 420 C
- FKM

AISI 316

AISI 316
AISI 301
FKM

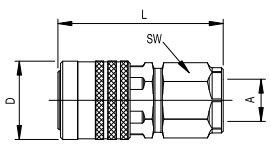
>800 bar
100 bar

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



Couplings **TEMA Series T2300**

Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1/8	15	38	18	with	200	Standard	NBR	T2310	■
G 1/8	15	38	18	with	200	Standard	FKM	T2310 V	■□
G 1/8	15	38	18	with	200	Stainless Steel	FKM	T2310 RV ²⁾	■□
G 1/8	15	38	18	with	200	Stainless Steel	FKM	T2310 RFV ¹⁾ 2)	■
G 1/8	15	38	18	without	200	Standard	NBR	T2310 UV	■□
G 1/8	15	38	18	without	200	Standard	FKM	T2310 VUV	■□
G 1/8	15	38	18	without	200	Stainless Steel	FKM	T2310 RVUV ²⁾	■□

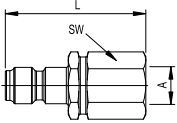


Female Thread

DS = Delivery Status: ■ in stock ■□ on short call □ medium term delivery

Plugs

TEMA Series T2300

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 1/8	15	36		with	200	Standard	NBR	T2320	■
	G 1/8	15	36		with	200	Standard	FKM	T2320 V	■
	G 1/8	15	36		with	200	Stainless Steel	FKM	T2320 RV ²⁾	□
	G 1/8	15	36		with	200	Stainless Steel	FKM	T2320 RFV ^{1) 2)}	□
	G 1/8	15	36		without	200	Standard		T2320 UV	□
	G 1/8	15	36		without	200	Stainless Steel		T2320 RUV ²⁾	□

Seal-Kit for Coupling

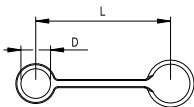
TEMA Series T2300

Description	Material	Part Number	DS
Coupling	NBR	T11310 N	■
Coupling	FKM	T11310 V	■
Further sealing material on request.			

Dust Protection

TEMA Series T2300

Description	L mm	D mm	Material	Color	Part Number	DS
Coupling	55	15	PVC	Red	T2315	■
Plug	55	15	PVC	Red	T125	■
Further colors on request.						

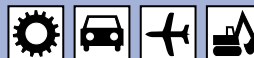


¹⁾ Valve made of brass

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value



Nominal Diameter

6.5 = 32 mm²

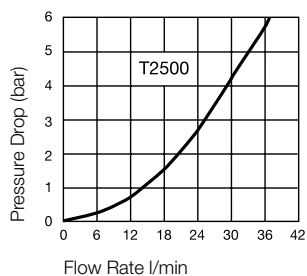
TEMA Series

T2500

90% of actual size



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

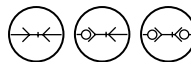
**Technical Description**

The coupling system is available as double shut-off, straight-through or with single shut-off version. Single shut-off only on the side of the coupling. Also available in stainless steel. From series 2500 double O-ring seal.

Connected length in total:
81 mm

Advantages

Straight-through – minimum pressure drop. Double safety through a double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion resistant. Compact dimensions.

Available Valves**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 -40°C and above +200°C special seals are available on request.

Material**Coupling**

Coupling Body
Sleeve
Locking Ring

Valve
Adapter
Springs
Locking Balls
Seals
Valve Holder (up to 100°C)
Valve Holder (over 100°C)

Plug

Plug Body

Valve
Springs
Seals

Pressures

Bursting Press. coupled
Working Press. uncoupled

Standard

Brass, Nickel Pl., Chromated
Brass, Nickel Pl., Chromated
Brass, Zinc-iron coated,
Black passivated, sealed
Brass
Brass, Nickel Plated
AISI 301
AISI 420 C
NBR/FKM
Zinc Casting
Brass

Steel Hardened, Zinc Plated,
Yellow passivated, sealed
AISI 301
NBR/FKM

Stainless Steel

AISI 316
AISI 316
AISI 316

AISI 316
AISI 301
AISI 420 C
FKM
AISI 316
AISI 316

Diver's Coupling

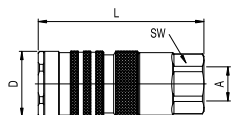
Brass, Chromated
Brass, Chromated
Brass, Zinc Chromated
Conversion Coated
Brass
Brass, Chromated
AISI 301
AISI 304
NBR
Zinc Casting

>1000 bar
250 bar

>100 bar
10 bar

Couplings**TEMA Series T2500**

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
	G 1/4	21	64	25	with	450	Standard	NBR	T2510	■
	G 1/4	21	64	25	with	450	Standard	FKM	T2510 V	■□
	G 1/4	21	64	25	with	250	Stainless Steel	FKM	T2510 RV ²⁾	■□
	G 1/4	21	64	25	without	450	Standard	NBR	T2510 UV	■□
	G 1/4	21	64	25	without	450	Standard	FKM	T2510 VUV	■□
	G 1/4	21	64	25	without	250	Stainless Steel	FKM	T2510 RVUV ²⁾	■□
	G 1/4	21	64	25	with	10	Diver's Coupling	NBR	T2510 ELRF	■□



Female Thread

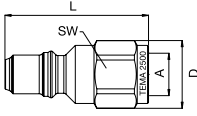
DS = Delivery Status: ■ in stock

■□ on short call

□□ medium term delivery

Plugs

TEMA Series T2500

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 1/4	19	45	21	with	450	Standard	NBR	T2520	■
	G 1/4	19	45	21	with	450	Standard	FKM	T2520 V	■
	G 1/4	19	45	21	with	250	Stainless Steel	FKM	T2520 RV ²⁾	■
	G 1/4	19	45	21	with	250	Stainless Steel	FKM	T2520 RFV ¹⁾ ²⁾	■
	G 1/4	19	45	21	with	170	Stainless Steel	FKM	T2520 RFV2 ¹⁾ ²⁾ ⁴⁾	■
	G 1/4	19	45	21	without	450	Standard		T2520 UV	■
	G 1/4	19	45	21	without	250	Stainless Steel		T2520 RUV ²⁾	■
	G 1/4	19	45	21	without	450	Stainless Steel		T2520 RHUV ³⁾	■
	G 1/4	19	45	21	without	170	Stainless Steel		T2520 RFUV2 ²⁾ ³⁾	■

Seal-Kit for Coupling

TEMA Series T2500

Description	Material	Part Number	DS
Coupling	NBR	T2500-PSN	■
Coupling	FKM	T2500-PSV	■
Further sealing materials on request.			

Dust Protection

TEMA Series T2500

Description	L mm	D mm	Material	Color	Part Number	DS
Coupling	145	44	PVC	Blue	T2516	■
Plug	145	42	PVC	Blue	T2526	■
Further colors on request.						

¹⁾ Valve made of brass

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value

³⁾ Material, AISI 420 hardened

⁴⁾ Suitable for high pressure water, AISI 303



Nominal Diameter

10 = 80 mm²

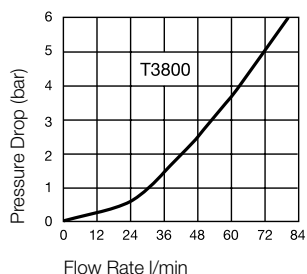
TEMA Series

T3800



90% of actual size

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

**Technical Description**

This coupling system can be used as straight-through and double shut-off. Also available in stainless steel.

Connected length in total:
74 mm

Available Valves**Advantages**

Straight-through for minimum pressure drop. Double safety through a double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion resistant. Compact dimensions. Pressure eliminator for coupling and plug available. With pressure eliminator, can be coupled up to operating 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 -40°C and above +200°C special seals are available on request.

Material**Coupling**

Coupling Body
Sleeve
Locking Ring

Valve
Springs
Locking Balls
Seals
Valve Holder (up to 100°C)
Valve Holder (over 100°C)

Plug

Plug Body

Valve
Springs
Seals
Valve Holder (up to 100°C)
Valve Holder (over 100°C)

Pressures (Coupling/Plug)

Bursting Pressure coupled
Working Pressure uncoupled

Standard

Brass, Nickel Pl., Chromated
Brass, Nickel Pl., Chromated
Brass, Zinc-iron coated,
Black passivated, sealed
Brass
AISI 301
AISI 420 C
NBR/FKM
Zinc Casting
Brass

Steel Hardened, Zinc Plated,
Yellow passivated, sealed
Brass
AISI 301
NBR/FKM
Zinc Casting
Brass

Stainless Steel

AISI 316
AISI 316
AISI 316

AISI 316
AISI 301
AISI 420 C
FKM
AISI 316
AISI 316

AISI 316
AISI 316
AISI 301
FKM
AISI 316
AISI 316

High Pressure Water

Brass, Chromated
Brass, Chromated

AISI 301
AISI 420 C
NBR

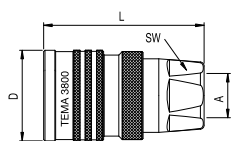
Brass Version

Brass

Brass
AISI 301
NBR/FKM
Brass

Couplings**TEMA Series T3800**

	Conne- ction A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
	G 3/8	24	60	34	with	350	Standard	NBR	T 3810	■
	G 3/8	24	60	34	with	350	Standard	FKM	T 3810 V	■
	G 3/8	24	60	34	with	300	Stainless Steel	FKM	T 3810 RV ²⁾	■□
	G 3/8	24	60	34	without	350	Standard	NBR	T 3810 UV	■□
	G 3/8	24	60	34	without	350	Standard	FKM	T 3810 VUV	■□
	G 3/8	24	60	34	without	350	Stainless Steel	FKM	T 3810 RVUV ²⁾	■□



Female Thread

DS = Delivery Status:

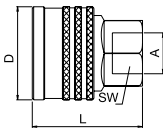
■ in stock

■□ on short call

■□ medium term delivery

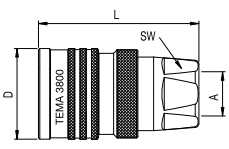
Couplings for High Pressure Water

TEMA Series T3800

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 3/8	24	40	34	without	350	High Pressure Water	NBR	T3810 H	■
	G 3/8	29	40	34	without	350	High Pressure Water	NBR	T3810 H2	■
	G 3/8	24	40	34	without	350	High Pressure Water	FKM	T3810 HV	■
	G 3/8	29	40	34	without	350	High Pressure Water	FKM	T3810 H2V	■
	G 3/8	24	40	34	without	350	High Pressure Water	EPDM	T3810 HEP	■
	G 3/8	29	40	34	without	350	High Pressure Water	EPDM	T3810 H2EP	■

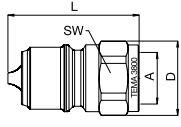
Couplings with Pressure Eliminator

TEMA Series T3800

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 3/8	24	60	34	with	350	Standard	NBR	T3811	■
	G 3/8	24	60	34	with	350	Standard	FKM	T3811 V	■
	G 3/8	24	60	34	with	300	Stainless Steel	FKM	T3811 RV ²⁾	■
	G 3/8	24	60	34	with	300	Stainless Steel	FKM	T3811 RFV ^{1) 2)}	■

Plugs

TEMA Series T3800

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 3/8	22	42	24	with	350	Standard	NBR	T3820	■
	G 3/8	22	42	24	with	350	Standard	FKM	T3820 V	■
	G 3/8	22	42	24	with	50	Brass	NBR	T3820 M	■
	G 3/8	22	42	24	with	50	Brass	FKM	T3820 MV	■
	G 3/8	22	42	24	with	300	Stainless Steel	FKM	T3820 RV ²⁾	■
	G 3/8	22	42	24	with	300	Stainless Steel	NBR	T3820 RF ^{1) 2)}	■
	G 3/8	22	42	24	with	300	Stainless Steel	FKM	T3820 RFV ^{1) 2)}	■
	G 3/8	22	38	24	without	350	Standard		T3820 UV	■
	G 3/8	22	38	24	without	300	Stainless Steel		T3820 RUV ²⁾	■
	G 3/8	22	38	24	without	170	Stainless Steel		T3820 RFUV ^{2) 3)}	■

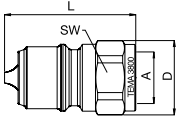
¹⁾ Valve made of brass

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value

³⁾ Suitable for high pressure water, AISI 303

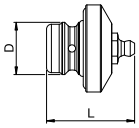
Plugs with Pressure Eliminator

TEMA Series T3800

	Conne- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
	G 3/8	22	43	24	with	350	Standard	NBR	T3821	■
	G 3/8	22	43	24	with	350	Standard	NBR	T3821 V	■□
	G 3/8	22	43	24	with	300	Stainless Steel	FKM	T3821 RV ²⁾	■□
	G 3/8	22	43	24	with	300	Stainless Steel	FKM	T3821 RFV ²⁾	■□

Lubrication Nipple

TEMA Series T3800

	Description	L mm	D mm	Part Number	DS
	Coupling	36	36	TGR3	■□

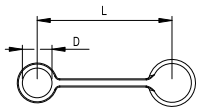
Seal-Kit for Coupling

TEMA Series T3800

	Description	Material	Part Number	DS
	Coupling	NBR	T3800-PSN	■□
	Coupling	FKM	T3800-PSV	■□
Further sealing materials on request.				

Dust Protection

TEMA Series T3800

	Description	L mm	D mm	Material	Color	Part Number	DS
	for coupling	145	54	PVC	Blue	T3816	■
	for plug	145	46	PVC	Blue	T3826	■
	for coupling	145	54	PVC	Yellow	T3816 Y	■
	for plug	145	46	PVC	Yellow	T3826 Y	■
Further colors on request.							

1) Valve made of brass.

2) For pulsating pressure, the pressure must not exceed 50% of the given value

3) Material, AISI 420 hardened

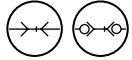


Technical Description

This coupling system can be used as straight-through and double shut-off. Also available in stainless steel.

Connected length in total:
82 mm

Available Valves



Material

Coupling

Coupling Body
Sleeve
Locking Ring

Valve
Springs
Locking Balls
Seals
Valve Holder (up to 100°C)
Valve Holder (over 100°C)

Plug

Plug Body

Valve
Springs
Seals
Valve Holder (up to 100°C)
Valve Holder (over 100°C)

Pressures

Bursting Pressure coupled
Working Pressure uncoupled

Advantages

Straight-through – minimum pressure drop. Double safety through a double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion resistant. Compact dimensions. Pressure eliminator for coupling and plug available. With pressure eliminator, can be coupled up to operating pressure.

Standard

Brass, Nickel Plated, Chromated
Brass, Nickel Plated, Chromated
Brass, Zinc-iron coated, Black passivated, sealed
Brass
AISI 301
AISI 420 C
NBR/FKM
Zinc Casting
Brass

Steel Hardened, Zinc Plated, Yellow passivated, sealed
Brass
AISI 301
NBR/FKM
Zinc Casting
Brass

>1200 bar
250 bar

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 -40°C and above +200°C special seals are available on request.

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
FKM
AISI 316
AISI 316

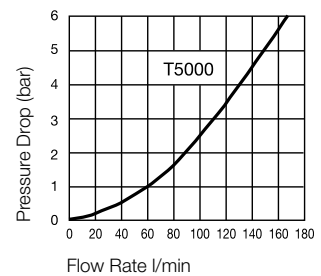
AISI 316

>1200 bar
250 bar



80% of actual size

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

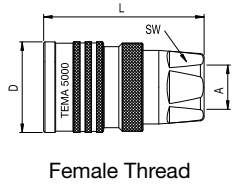


Couplings

TEMA Series T5000

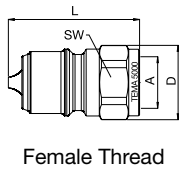
	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
<p>Female Thread</p>	G 1/2	30	65	40	with	300	Standard	NBR	T5010	■
	G 1/2	30	65	40	with	300	Standard	FKM	T5010 V	■
	G 1/2	30	65	40	with	300	Stainless Steel	FKM	T5010 RV ²⁾	■
	G 1/2	30	65	40	without	300	Standard	NBR	T5010 UV	■
	G 1/2	30	65	40	without	300	Standard	FKM	T5010 VUV	■
	G 1/2	30	65	40	without	300	Stainless Steel	FKM	T5010 RVUV ²⁾	■

Couplings with Pressure Eliminator **TEMA Series T5000**



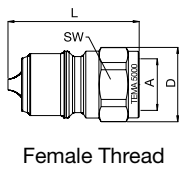
Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1/2	30	65	40	with	300	Standard	NBR	T5011	■
G 1/2	30	65	40	with	300	Standard	FKM	T5011 V	■□
G 1/2	30	65	40	with	300	Stainless Steel	FKM	T5011 RV ²⁾	■□
G 1/2	30	65	40	with	300	Stainless Steel	FKM	T5011 RFV ^{1) 2)}	■□

Plugs **TEMA Series T5000**



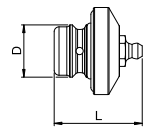
Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1/2	27	46	30	with	320	Standard	NBR	T5020	■
G 1/2	27	46	30	with	320	Standard	FKM	T5020 V	■
G 1/2	27	46	30	with	300	Stainless Steel	FKM	T5020 RV ²⁾	■□
G 1/2	27	42	30	without	320	Standard		T5020 UV	■□
G 1/2	27	42	30	without	300	Stainless Steel		T5020 RUV ²⁾	■□

Plugs with Pressure Eliminator **TEMA Series T5000**



Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1/2	27	47	30	with	320	Standard	NBR	T5021	■
G 1/2	27	47	30	with	320	Standard	FKM	T5021 V	■□
G 1/2	27	47	30	with	300	Stainless Steel	FKM	T5021 RV ²⁾	■□
G 1/2	27	47	30	with	300	Stainless Steel	FKM	T5021 RFV ^{1) 2)}	■□

Lubrication Nipple **TEMA Series T5000**



Description	L mm	D mm	Part Number	DS
Coupling	41	25	TGR5	■□

DS = Delivery Status: ■ in stock ■□ on short call □ medium term delivery

Seal-Kit for Coupling

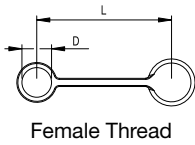
TEMA Series T5000

Description	Material	Part Number	DS
Coupling	NBR	T5000-PSN	■
Coupling	FKM	T5000-PSV	■
Further sealing materials on request.			

Dust Protection

TEMA Series T5000

Description	L mm	D mm	Material	Color	Part Number	DS
Coupling	170	60	PVC	Blue	T5016	■
Plug	170	52	PVC	Blue	T5026	■
Further colors on request.						



¹⁾ Valve made of brass

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value

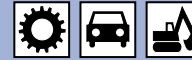


Nominal Diameter

20 = 314 mm²

TEMA Series

T7500

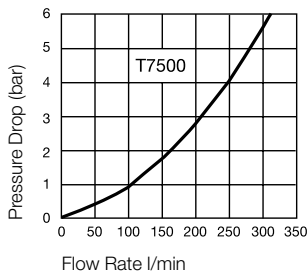


65% of actual size



Flow Capacity

Viscosity for 32cSt at 40°C
as per ISO 7241/2-2000

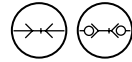


Technical Description

This coupling system can be used as straight-through and double shut-off. Also available in stainless steel. For very high loads we recommend the use of the „super nipple“.

Connected length in total:
91 mm

Available Valves



Material

Coupling
Coupling body
Sleeve

Locking Ring

Valve
Springs
Locking Balls
Seals
Valve Holder

Plug

Plug Body

Valve
Springs
Seals
Valve Holder

Pressures (Coupling/Plug)

Bursting Pressure coupled
Working Pressure uncoupled

Advantages

Straight-through – minimum pressure drop. Double safety through a double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion resistant. Compact dimensions. Pressure eliminator is available for coupling and plug. With pressure eliminator, can be coupled up to operating pressure.

Standard

Brass, Nickel Plated, Chromated
Steel hardened, Zinc Plated,
Yellow passivated, sealed
Brass, Zinc-iron coated, Black
passivated, sealed
Brass
AISI 301
AISI 420 C
NBR/FKM
Brass

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

> 1120 bar/1120 bar
200 bar/200 bar

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
-40°C and above +200°C
special seals are available
on request.

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 316
AISI 301
AISI 301
AISI 420 C
FKM
FKM
AISI 316

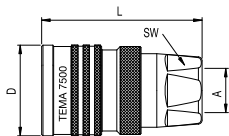
AISI 316
AISI 316
AISI 301
AISI 301
FKM
FKM
AISI 316

> 1000 bar/1000 bar
200 bar/200 bar

Couplings

TEMA Series T7500

	Conne- ction A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
	G 3/4	38	72	52	with	280	Standard	NBR	T7510	■
	G 3/4	38	72	52	with	280	Standard	FKM	T7510 V	■□
	G 3/4	38	72	52	with	250	Stainless Steel	FKM	T7510 RV ²⁾	■□
	G 3/4	38	72	52	without	280	Standard	NBR	T7510 UV	■□
	G 3/4	38	72	52	without	280	Standard	FKM	T7510 VUV	■□
	G 3/4	38	72	52	without	250	Stainless Steel	FKM	T7510 RVUV ²⁾	■□



Female Thread

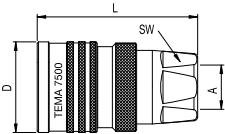
DS = Delivery Status: ■ in stock

■□ on short call

□□ medium term delivery

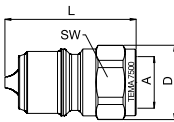
Couplings with Pressure Eliminator

TEMA Series T7500

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 3/4	38	72	52	with	280	Standard	NBR	T7511	■
	G 3/4	38	72	52	with	280	Standard	FKM	T7511 V	■
	G 3/4	38	72	52	with	250	Stainless Steel	FKM	T7511 RV ²⁾	■
	G 3/4	38	72	52	with	250	Stainless Steel	FKM	T7511 RFV ¹⁾ ²⁾	■

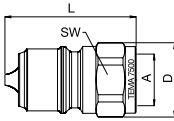
Plugs

TEMA Series T7500

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	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	250	Stainless Steel	FKM	T7520 RV ²⁾	■
	G 3/4	36	47	39	without	300	Standard		T7520 UV	■
	G 3/4	36	47	39	without	250	Stainless Steel		T7520 RUV ²⁾	■

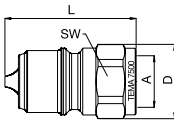
Plugs with Pressure Eliminator

TEMA Series T7500

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	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	250	Stainless Steel	FKM	T7521 RV ²⁾	■
	G 3/4	36	53	39	with	250	Stainless Steel	FKM	T7521 RFV ¹⁾ ²⁾	■

Super Nipple

TEMA Series T7500

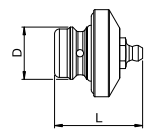
	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 3/4	36	52	39	with	300	Standard	NBR	T7520S	■
	G 3/4	36	52	39	with	300	Standard	Nitril	T7521S	■

¹⁾ Valve made of brass

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value

Lubrication Nipple **TEMA Series T7500**

Description	L	D	Part Number	DS
	mm	mm		
Coupling	44	33	TGR7	■□

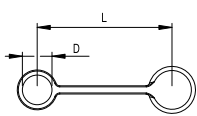


Seal-Kit for Coupling **TEMA Series T7500**

Description	Material	Part Number	DS
Coupling	NBR	T7500-PSN	■
Coupling	FKM	T7500-PSV	■□
Further sealing materials on request.			

Dust Protection **TEMA Series T7500**

Description	L	D	Material	Color	Part Number	DS
	mm	mm				
Coupling	195	76	PVC	Blue	T7516	■
Plug	195	63	PVC	Blue	T7526	■
Further colors on request.						



DS = Delivery Status: ■ in stock ■□ on short call □ medium term delivery

1) Valve made of brass
 2) For pulsating pressure, the pressure must not exceed 50% of the given value

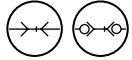


Technical Description

This coupling system can be used as straight-through and double shut-off. Also available in stainless steel.

Connected length in total:
108 mm

Available Valves



Material

Coupling

Coupling Body
Sleeve

Locking Ring

Valve
Springs
Locking Balls
Seals
Valve Holder

Plug

Plug Body

Valve
Springs
Seals
Valve Holder

Pressures (Coupling/Plug)

Bursting Pressure coupled
Working Pressure uncoupled

Advantages

Straight-through – minimum pressure drop. Double safety through a double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion resistant. Compact dimensions. Pressure eliminator is available for coupling and plug. With pressure eliminator, can be coupled up to operating pressure.

Standard

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

Brass Version

Brass
Brass
AISI 301
NBR/FKM
Brass

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 -40°C and above +200°C special seals are available on request.

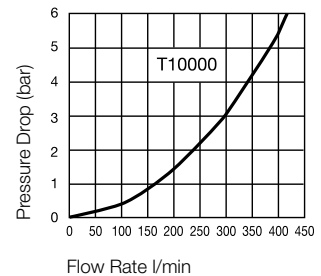
Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
FKM
AISI 316



55% of actual size

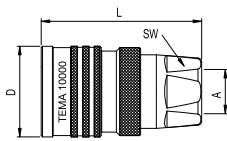
Flow Capacity
Viscosity for 32cSt at 40°C
as per ISO 7241/2-2000



Couplings

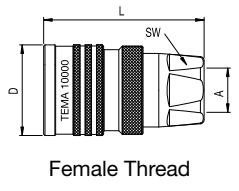
TEMA Series T10000

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
	G 1	45	88	62	with	250	Standard	NBR	T10010	■
	G 1	45	88	62	with	250	Standard	FKM	T10010 V	■
	G 1	45	88	62	with	250	Stainless Steel	FKM	T10010 RV ²⁾	■
	G 1	45	88	62	without	250	Standard	NBR	T10010 UV	■
	G 1	45	88	62	without	250	Standard	FKM	T10010 VUV	■
	G 1	45	88	62	without	250	Stainless Steel	FKM	T10010 RVUV ²⁾	■



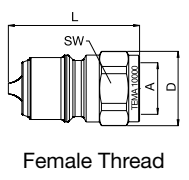
Female Thread

Couplings with Pressure Eliminator **TEMA Series T10000**



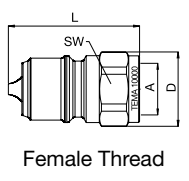
Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1	45	88	62	with	250	Standard	NBR	T10011	■□
G 1	45	88	62	with	250	Standard	FKM	T10011 V	■□
G 1	45	88	62	with	250	Stainless Steel	FKM	T10011 RV ²⁾	■□
G 1	45	88	62	with	250	Stainless Steel	FKM	T10011 RFV ^{1) 2)}	■□

Plugs **TEMA Series T10000**



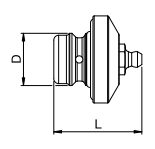
Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1	46	60	49	with	280	Standard	NBR	T10020	■
G 1	46	60	49	with	280	Standard	FKM	T10020 V	■
G 1	46	60	49	with	250	Stainless Steel	FKM	T10020 RV ²⁾	■□
G 1	46	53	49	without	280	Standard		T10020 UV	■□
G 1	46	53	49	without	250	Stainless Steel		T10020 RUV ²⁾	■□

Plugs with Pressure Eliminator **TEMA Series T10000**



Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1	46	61	49	with	280	Standard	NBR	T10021	■□
G 1	46	61	49	with	280	Standard	FKM	T10021 V	■□
G 1	46	61	49	with	250	Stainless Steel	FKM	T10021 RV ²⁾	■
G 1	46	61	49	with	250	Stainless Steel	FKM	T10021 RFV ^{1) 2)}	■□

Lubrication Nipple **TEMA Series T10000**



Description	L mm	D mm	Part Number	DS
Coupling	46	41	TGR10	■□

DS = Delivery Status: ■ in stock □ on short call □ medium term delivery

Seal-Kit for Coupling

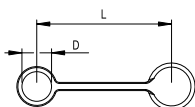
TEMA Series T10000

Description	Material	Part Number	DS
Coupling	NBR	T10000-PSN	■
Coupling	FKM	T10000-PSV	■
Further sealing materials on request.			

Dust Protection

TEMA Series T10000

Description	L	D	Material	Color	Part Number	DS
	mm	mm				
Coupling	230	90	PVC	Blue	T10016	■
Plug	230	76	PVC	Blue	T10026	■
Further colors on request.						



¹⁾ Valve made of brass

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value



Nominal Diameter

35 = 960 mm²

TEMA Series



T15000

40% of actual size

**Technical Description**

This coupling system can be used as straight-through and double shut-off. Also available in stainless steel and brass.

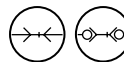
Advantages

Straight-through – minimum pressure drop. Double safety through a double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion resistant. Compact dimensions. Pressure eliminator is available for coupling and plug. With pressure eliminator,

can be coupled up to operating pressure.

Please note: When ordering a coupling with a pressure eliminator, the corresponding plug must also be equipped with a pressure eliminator.

Connected length in total:
173 mm

Available Valves**Working Pressure**

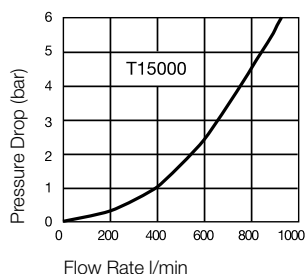
See chart.

Working Temperature*

-30°C up to +100°C (NBR)
-20°C up to +200°C (FKM)
depending on the medium.

*At a temperature below -40°C and above +200°C special seals are available on request.

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 Pl., Yellow passivated, sealed
Brass, Zinc-iron coated, Black passivated, sealed

Brass

AISI 301

AISI 420 C

NBR/FKM

AISI 316

Stainless Steel

AISI 316

AISI 316

AISI 316

AISI 316

AISI 301

AISI 420 C

FKM

AISI 316

Brass Version

Brass

Brass

Brass

Brass

AISI 301

AISI 420 C

NBR/FKM

AISI 316

Plug

Plug Body

Valve

Springs

Seals

Valve Holder

Steel Hardened, Zinc Pl., Yellow passivated, sealed
Brass

AISI 301

NBR/FKM

AISI 316

AISI 316

AISI 316

AISI 301

FKM

AISI 316

Brass

Brass

AISI 301

NBR/FKM

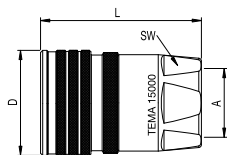
Brass

Pressures

Bursting Press. coupled > 800 bar
Working Press. uncoupled 180 bar

> 600 bar
150 bar

> 200 bar
50 bar

Couplings**TEMA Series T15000**

Female Thread

Conne- ction A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
G 1 1/2	60	112	73	with	200	Standard	NBR	T15010	■□
G 1 1/2	60	112	73	with	200	Standard	FKM	T15010 V	■□
G 1 1/2	60	112	73	with	50	Brass	NBR	T15010 M	■□
G 1 1/2	60	112	73	with	50	Brass	FKM	T15010 MV	■□
G 1 1/2	60	112	73	with	150	Stainless Steel	FKM	T15010 RV ²⁾	■□
G 1 1/2	60	112	73	without	200	Standard	NBR	T15010 UV	■□
G 1 1/2	60	112	73	without	200	Standard	FKM	T15010 VUV	■□
G 1 1/2	60	112	73	without	50	Brass	NBR	T15010 MUV	■□
G 1 1/2	60	112	73	without	50	Brass	FKM	T15010 MVUV	■□
G 1 1/2	60	112	73	without	150	Stainless Steel	FKM	T15010 RVUV ²⁾	■□

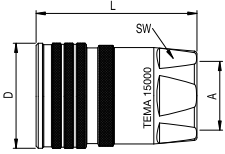
DS = Delivery Status: ■ in stock

■□ on short call

■□ medium term delivery

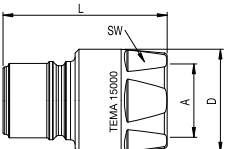
Couplings with Pressure Eliminator

TEMA Series T15000

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 1 1/2	60	112	73	with	200	Standard	NBR	T15011	<input type="checkbox"/>
	G 1 1/2	60	112	73	with	200	Standard	FKM	T15011 V	<input type="checkbox"/>

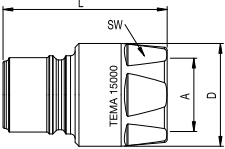
Plugs

TEMA Series T15000

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 1 1/2	60	107	67	with	200	Standard	NBR	T15020	<input type="checkbox"/>
	G 1 1/2	60	107	67	with	200	Standard	FKM	T15020 V	<input type="checkbox"/>
	G 1 1/2	60	107	67	with	50	Brass	NBR	T15020 M	<input type="checkbox"/>
	G 1 1/2	60	107	67	with	50	Brass	FKM	T15020 MV	<input type="checkbox"/>
	G 1 1/2	60	107	67	with	150	Stainless Steel	FKM	T15020 RV ²⁾	<input type="checkbox"/>
	G 1 1/2	60	107	67	without	200	Standard		T15020 UV	<input type="checkbox"/>
	G 1 1/2	60	107	67	without	50	Brass		T15020 MUV	<input type="checkbox"/>
	G 1 1/2	60	107	67	without	150	Stainless Steel		T15020 RUV ²⁾	<input type="checkbox"/>

Plugs with Pressure Eliminator

TEMA Series T15000

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 1 1/2	60	107	67	with	200	Standard	NBR	T15021	<input type="checkbox"/>
	G 1 1/2	60	107	67	with	200	Standard	FKM	T15021 V	<input type="checkbox"/>

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value

⚠ Please consider our security advices on the pages 12/13 ⚠

Seal-Kit for Coupling

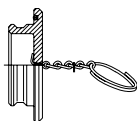
TEMA Series T15000

Description	Material	Part Number	DS
Coupling	NBR	T15000-PSN	<input checked="" type="checkbox"/>
Coupling	FKM	T15000-PSV	<input checked="" type="checkbox"/>
Further sealing materials on request.			

Dust Protection

TEMA Series T15000

Description	L	D	Material	Color	Part Number	DS
	mm	mm				
Coupling	310	56	POM	Black	T15015	<input checked="" type="checkbox"/>
Plug	300	56	POM	Black	T15025	<input checked="" type="checkbox"/>



DS = Delivery Status: in stock on short call medium term delivery

¹⁾ Valve made of brass

²⁾ For pulsating pressure, the pressure must not exceed 50% of the given value



Technical Description

This coupling system can be used as straight-through and double shut-off. Also available in stainless steel.

Connected length in total:
224 mm

Material

Coupling

Coupling Body

Sleeve

Locking Ring

Valve

Springs

Locking Balls

Seals

Valve Holder

Plug

Plug Body

Valve

Springs

Seals

Valve Holder

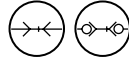
Pressures

Bursting Pressure coupled
Working Pressure uncoupled

Advantages

Straight-through – minimum pressure drop. Double safety through a double O-ring seal. A safety closing ring prevents unintentional uncoupling.

Available Valves



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
AISI 316

Steel Hardened, Zinc Plated, Yellow passivated, sealed
Brass
AISI 301
NBR/FKM
AISI 316

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 -40°C and above +200°C special seals are available on request.

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 316
AISI 301
AISI 301
AISI 420 C
FKM
FKM
AISI 316

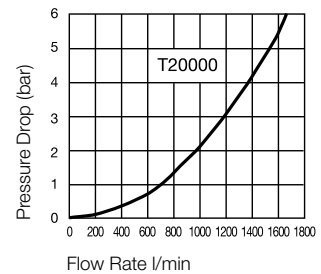
AISI 316
AISI 316
AISI 301
FKM
FKM
AISI 316

> 480 bar
120 bar



35% of actual size

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



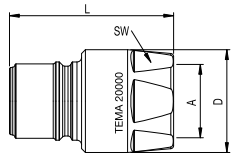
Couplings

TEMA Series T20000

	Connec- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
<p>Female Thread</p>	G 2	75	144	90	with	180	Standard	NBR	T20010	■
	G 2	75	144	90	with	180	Standard	NBR	T20010 V	■
	G 2	75	144	90	with	120	Stainless Steel	NBR	T20010 RV ²⁾	■
	G 2	75	144	90	without	180	Standard	NBR	T20010 UV	■
	G 2	75	144	90	without	180	Standard	NBR	T20010 VUV	■
	G 2	75	144	90	without	120	Stainless Steel	NBR	T20010 RVUV ²⁾	■

Plugs

TEMA Series T20000

	Conne- tion A	Hex SW	L mm	D mm	Valve	Working press. in bar	Version	Seal	Part Number	DS
 <p>Female Thread</p>	G 2	75	142	85	with	180	Standard	NBR	T20020	■ □
	G 2	75	142	85	with	180	Standard	FKM	T20020 V	■ □
	G 2	75	142	85	with	120	Stainless Steel	FKM	T20020 RV ²⁾	■ □
	G 2	75	142	85	without	180	Standard		T20020 UV	■ □
	G 2	75	142	85	without	120	Stainless Steel		T20020 RUV ²⁾	■ □

Seal-Kit for Coupling

TEMA Series T20000

Description	Material	Part Number	DS
Coupling	NBR	T20000-PSN	■ □
Coupling	FKM	T20000-PSV	■ □
Further sealing materials on request.			

Dust Protection

TEMA Series T20000

Description	L mm	D mm	Material	Color	Part Number	DS
Coupling	380	63	EBA	Black	T20015	■ □
Plug	380	63	EBA	Black	T20025	■ □

DS = Delivery Status: ■ in stock

■ on short call

□ medium term delivery

²⁾ For pulsating pressure, the pressure must not exceed 50 % of the given value