



Max Working Pressure: Maximum static working pressure with safety factor 4:1

**Description:** Thanks to the double O-Ring seal, this coupling system can be used for pressures of up to 250 bar for the T15000 Series and 200 bar for the T20000 Series. The coupling system is available with double shut-off, straight through or with single shut-off. Also available in stainless steel.

Advantages: Straight through minimum pressure drop. Double safety through double O-Ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion resistant.

Applications: Chemical industries off-shore, deep-sea technology, elevating mechanism, building machinery, materials handling technology and industrial plants.

# G1.1/2 TEMA Series T15000

TE-15010 VUV



Couplings 0071 **{ }** bar TE-15010 G1.1/2 250 With valve Nitrile G1.1/2 G1.1/2 G1.1/2 250 250 250 TE-15010 UV Nitrile No valve TE-15010 V Viton With valve



Plugs					
0071		bar		Operation	
TE-15020	G1.1/2	250	Nitrile	With valve	
TE-15020 UV	G1.1/2	250	-	No valve	
TE-15020 V	G1.1/2	250	Viton	With valve	





#### **Standard Version:**

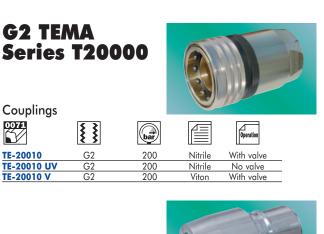
0071

Coupling:	Brass, chromatized, nitrile seal. Valve holder (up to 100°C) Zinc-alloy. Valve holder (over 100°C) Brass.
Plug:	Steel hardened, zinc chromated, nitrile se Valve holder (up to 100°C) Zinc-allov.

HYDRAULIC COUPLINGS

eal. Valve holder (over 100°C) Brass.

Stainless Version: AISI 316, viton seal.







# Nominal Diameter **35** = 960 mm<sup>2</sup>

# T15000 series

#### **Technical Description**

The coupling system is available as straight-through and double shut-off version. Also available in stainless steel and brass.

Connected length in total: 173 mm

#### Advantages

Straight-through – minimum pressure drop. Double safety through a double 0-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion-resistant. Compact dimensions. Pressure

## Material

**Coupling** Coupling Body

#### Sleeve

Locking Ring Valve Springs Locking Balls Seals Valve Holder

Plug Plug Connection Face

#### Valve Springs Seals Valve Holder

Pressures

#### Bursting Pressure coupled Working Pressure uncoupled

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.

### Applications

industrial plant.

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery,

materials-handling technology,

Working Pressure See chart.

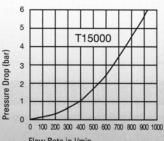
#### Working Temperature

- -40°C up to +100°C (Nitrile) -25°C up to +200°C (Viton®)
- The sealing material also depends on the flow medium.
- Couplings for higher temperatures on request.

Stainless steel and brass design suitable for use with water.

Standard Version	Stainless Steel	Brass Version
Steel, Yellow Zinc-plated, Aquarez-treated	AISI 316	Brass
Steel Hardened, Yellow Zinc-plated, Aquarez-treated	AISI 316	Brass
Arast Zinc Chromate Conversion Coated Brass, Zinc Chromate Conversion Coated Brass AISI 301 AISI 420 C Nitrile/Viton® AISI 316	AISI 316 AISI 316 AISI 301 AISI 420 C Viton® AISI 316	Brass Brass AISI 301 AISI 420 C Nitrile/Viton® AISI 316
Steel Hardened, Yellow Zinc-plated,	AISI 316	Brass
Aquarez-treated Brass AISI 301 Nitrile/Viton® AISI 316	AISI 316 AISI 301 Viton® AISI 316	Brass AISI 301 Nitrile/Viton® Brass
>800 bar 180 bar	>600 bar 150 bar	>200 bar 50 bar

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



Flow Rate in I/min

Connection A			D mm		Working pressure connected in bar	Version	Seal	Part Number	
G 1 1/2 IG	60	112	73	with	200	Standard	Nitrile	T15010	
G 1 1/2 IG	60	112	73	with	200	Standard	Viton®	T15010 V	
G 1 1/2 IG	60	112	73	with	50	Brass	Nitrile	T15010 M	
G 1 1/2 IG	60	112	73	with	50	Brass	Viton®	T15010 MV	
G 1 1/2 IG	60	112	73	with	150	Stainless Steel	Viton <sup>®</sup>	T15010 RV 2)	
G 1 1/2 IG	60	112	73	without	200	Standard	Nitrile	T15010 UV	
G 1 1/2 IG	60	112	73	without	200	Standard	Viton®	T15010 VUV	
G 1 1/2 IG	60	112	73	without	50	Brass	Nitrile	T15010 MUV	
G 1 1/2 IG	60	112	73	without	50	Brass	Viton®	T15010 MVUV	
G 1 1/2 IG	60	112	73	without	150	Stainless Steel	Viton <sup>®</sup>	T15010 RVUV 2)	
			5.55						
			883						
	A G 1 1/2 IG G 1 1/2 IG	A         mm           G 1 1/2 IG         60           G 1 1/2 IG         60	A         mm         mm           G 1 1/2 IG         60         112           G 1 1/2 IG         60         112	A         mm         mm         mm           G 1 1/2 IG         60         112         73           G 1 1/2 IG         60         112         73	A         mm         mm         mm           G 1 1/2 IG         60         112         73         with           G 1 1/2 IG         60         112         73         without           G 1 1/2 IG         60         112         73         without	A         mm         mm         mm         connected in bar           G 1 1/2 IG         60         112         73         with         200           G 1 1/2 IG         60         112         73         with         200           G 1 1/2 IG         60         112         73         with         50           G 1 1/2 IG         60         112         73         with         50           G 1 1/2 IG         60         112         73         with         150           G 1 1/2 IG         60         112         73         with         150           G 1 1/2 IG         60         112         73         without         200           G 1 1/2 IG         60         112         73         without         200           G 1 1/2 IG         60         112         73         without         50           G 1 1/2 IG         60         112         73         without         50           G 1 1/2 IG         60         112         73         without         50	A         mm         mm         mm         connected in bar           G 1 1/2 IG         60         112         73         with         200         Standard           G 1 1/2 IG         60         112         73         with         200         Standard           G 1 1/2 IG         60         112         73         with         50         Brass           G 1 1/2 IG         60         112         73         with         50         Brass           G 1 1/2 IG         60         112         73         with         150         Stainless Steel           G 1 1/2 IG         60         112         73         without         200         Standard           G 1 1/2 IG         60         112         73         without         200         Standard           G 1 1/2 IG         60         112         73         without         200         Standard           G 1 1/2 IG         60         112         73         without         50         Brass           G 1 1/2 IG         60         112         73         without         50         Brass	A         mm         mm         mm         connected in bar           G 1 1/2 IG         60         112         73         with         200         Standard         Nitrile           G 1 1/2 IG         60         112         73         with         200         Standard         Viton*           G 1 1/2 IG         60         112         73         with         50         Brass         Nitrile           G 1 1/2 IG         60         112         73         with         50         Brass         Viton*           G 1 1/2 IG         60         112         73         with         150         Stainless Steel         Viton*           G 1 1/2 IG         60         112         73         without         200         Stainless Steel         Viton*           G 1 1/2 IG         60         112         73         without         200         Standard         Viton*           G 1 1/2 IG         60         112         73         without         200         Standard         Viton*           G 1 1/2 IG         60         112         73         without         50         Brass         Nitrile           G 1 1/2 IG         60         112	A         mm         mm         mm         connected in bar           G 1 1/2 IG         60         112         73         with         200         Standard         Nitrile         T15010           G 1 1/2 IG         60         112         73         with         200         Standard         Viton®         T15010 V           G 1 1/2 IG         60         112         73         with         50         Brass         Nitrile         T15010 M           G 1 1/2 IG         60         112         73         with         50         Brass         Viton®         T15010 MV           G 1 1/2 IG         60         112         73         with         50         Brass         Viton®         T15010 MV           G 1 1/2 IG         60         112         73         with         150         Stainless Steel         Viton®         T15010 RV 2)           G 1 1/2 IG         60         112         73         without         200         Standard         Nitrile         T15010 VU           G 1 1/2 IG         60         112         73         without         200         Standard         Viton®         T15010 VUV           G 1 1/2 IG         60         112

\* SW = dimension over flats

uplings with Pressure Eliminator	Connection A		L mm	D mm	Valve	Working pressure connected in bar	Version	Seal	Part Number
	G 1 1/2 IG	60	112	73	with	200	Standard	Nitrile	T15011
SW IEMA 1 SOOO	G 1 1/2 IG	60	112	73	with	200	Standard	Viton®	T15011 V
Female Thread									

Plugs	Connection A	SW* mm	L mm	D mm		Working pressure connected in bar	Version	Seal	Part Number	
	G 1 1/2 IG	60	107	67	with	200	Standard	Nitrile	T15020	
L	G 1 1/2 IG	60	107	67	with	200	Standard	Viton <sup>®</sup>	T15020 V	
SW (T	G 1 1/2 IG	60	107	67	with	50	Brass	Nitrile	T15020 M	
8	G 1 1/2 IG	60	107	67	with	50	Brass	Viton®	T15020 MV	
A 15000	G 1 1/2 IG	60	107	67	with	150	Stainless Steel	Viton®	T15020 RV 2)	
	G 1 1/2 IG	60	107	67	without	200	Standard	-	T15020 UV	
	G 1 1/2 IG	60	107	67	without	50	Brass	-	T15020 MUV	
Female Thread	G 1 1/2 IG	60	107	67	without	150	Stainless Steel	-	T15020 RVUV 2)	

Plugs with Pressure Eliminator	Connection A			D mm		Working pressure connected in bar	Version	Seal	Part Number	
	G 1 1/2 IG	60	107	67	with	200	Standard	Nitrile	T15021	14 19 10
L	G 1 1/2 IG	60	107	67	with	200	Standard	Viton <sup>®</sup>	T15021 V	
SW	G 1 1/2 IG	60	107	67	with	200	Stainless Steel	Viton®	T15021 RV 2)	
	G 1 1/2 IG	60	107	67	with	200	Stainless Steel	Viton®	T15021 RFV 1) 2)	
Female Thread										

Seal-Kit	Description	Material	Part Number					
	Coupling	Nitrile	T15000-PSN					
	Coupling	Viton®	T15000-PSV					
	Further sealing materials on request.							

Dust Protection	Description	L	D mm	Material	Colour	Part Number	
R	Coupling	310	56	EBA	Black	T15015	
	Plug	300	56	EBA	Black	T15025	

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

\* SW = dimension over flats

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	T20000 series			
Technical Description The coupling system is avai		inimum	Working Pressure See chart.	
ble as straight-through and double shut-off version. Als available in stainless steel.		ing seal. prevents	Working Temperature -40°C up to +100°C (Nitrile) -25°C up to +200°C (Viton®)	
Connected length in total: 224 r		Off- nnology, n, build- ials-	<ul> <li>The sealing material also depends on the flow medium.</li> <li>Couplings for higher temperatures on request.</li> </ul>	
Material	Standard Version	Stainless Steel	Stainless Steel, Hardened	Flow Capacity
<b>Coupling</b> Coupling Body	Ctool Vollow Zine plated	4101.010	4101.010	Viscosity for 32cSt at 40°C
Soubling Boay	Steel, Yellow Zinc-plated, Aquarez-treated	AISI 316	AISI 316	as per ISO 7241/2-2000
Sleeve	Steel Hardened, Yellow Zinc-plated, Aquarez-treated	AISI 316	AISI 420	
ocking Ring	Brass, Zinc Chromate Conversion Coated	AISI 316	AISI 316	
Valve	Brass	AISI 316	AISI 316	6
Springs	AISI 301	AISI 301	AISI 301	
Locking Balls	AISI 420 C	AISI 420 C	AISI 420 C	5
Seals	Nitrile/Viton®	Viton®	Nitrile	T20000
/alve Holder	AISI 316	AISI 316	AISI 316	
Plug				
Plug Connection Face	Steel, Yellow Zinc-plated,	AISI 316	AISI 420	8
	Aquarez-treated			
	-	AISI 316	AISI 316	2
/alve	Brass	A131310	AISISIO	
	AISI 301	AISI 310 AISI 301	AISI 301	
Valve Springs Seals Valve Holder				Pressure Drop (bar)

Couplings	Connection A		L mm	D mm	Valve	Working pressure connected in bar	Version	Seal	Part Number
	G 2 IG	75	144	90	with	180	Standard	Nitrile	T20010
	G 2 IG	75	144	90	with	180	Standard	Viton <sup>®</sup>	T20010 V
L	G 2 IG	75	144	90	with	120	Stainless Steel	Viton®	T20010 RV 1)
SW	G 2 IG	75	144	90	with	130	Stainless Steel, Hard.	Viton®	T20010 RHV 1) 2)
	G 2 IG	75	144	90	without	180	Standard	Nitrile	T20010 UV
84	G 2 IG	75	144	90	without	180	Standard	Viton®	T20010 VUV
	G 2 IG	75	144	90	without	120	Stainless Steel	Viton <sup>®</sup>	T20010 RVUV 1)
LEMA 20000	G 2 IG	75	144	90	without	130	Stainless Steel, Hard.	Viton®	T20010 RHVUV 1) 2)
Female Thread									

Further connections on request.

\* SW = dimension over flats

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Plugs	Connection A		L mm			Working pressure connected in bar	Version	Seal	Part Number	
	G 2 IG	75	142	85	with	180	Standard	Nitrile	T20020	
SW	G 2 IG	75	142	85	with	180	Standard	Viton®	T20020 V	
	G 2 IG	75	142	85	with	120	Stainless Steel	Viton <sup>®</sup>	T20020 RV 1)	
	G 2 IG	75	142	85	with	130	Stainless Steel, Hard.	Viton®	T20020 RHV 1) 2)	
0 > 20000	G 2 IG	75	142	85	without	180	Standard	-	T20020 UV	
IEWAS	G 2 IG	75	142	85	without	120	Stainless Steel	-	T20020 RUV 1)	
LEMA 20000	G 2 IG	75	142	85	without	130	Stainless Steel, Hard.	-	T20020 RHUV 1) 2)	
Female Thread										

Seal-Kit	Description	Material	Part Number
	Coupling	Nitrile	T20000-PSN
	Coupling	Viton®	T20000-PSV
	Fur	ther sealing materials on request.	

Dust Protection	Description	L	D mm	Material	Colour	Part Number	
Ø	Coupling	380	63	EBA	Black	T20015	
	Plug	380	63	EBA	Black	T20025	
The second							

For pulsating pressure, the pressure must not exceed 50% of the given value.
 Sleeve and Plug Connection Face made of material AISI 420 hardened

\* SW = dimension over flats

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