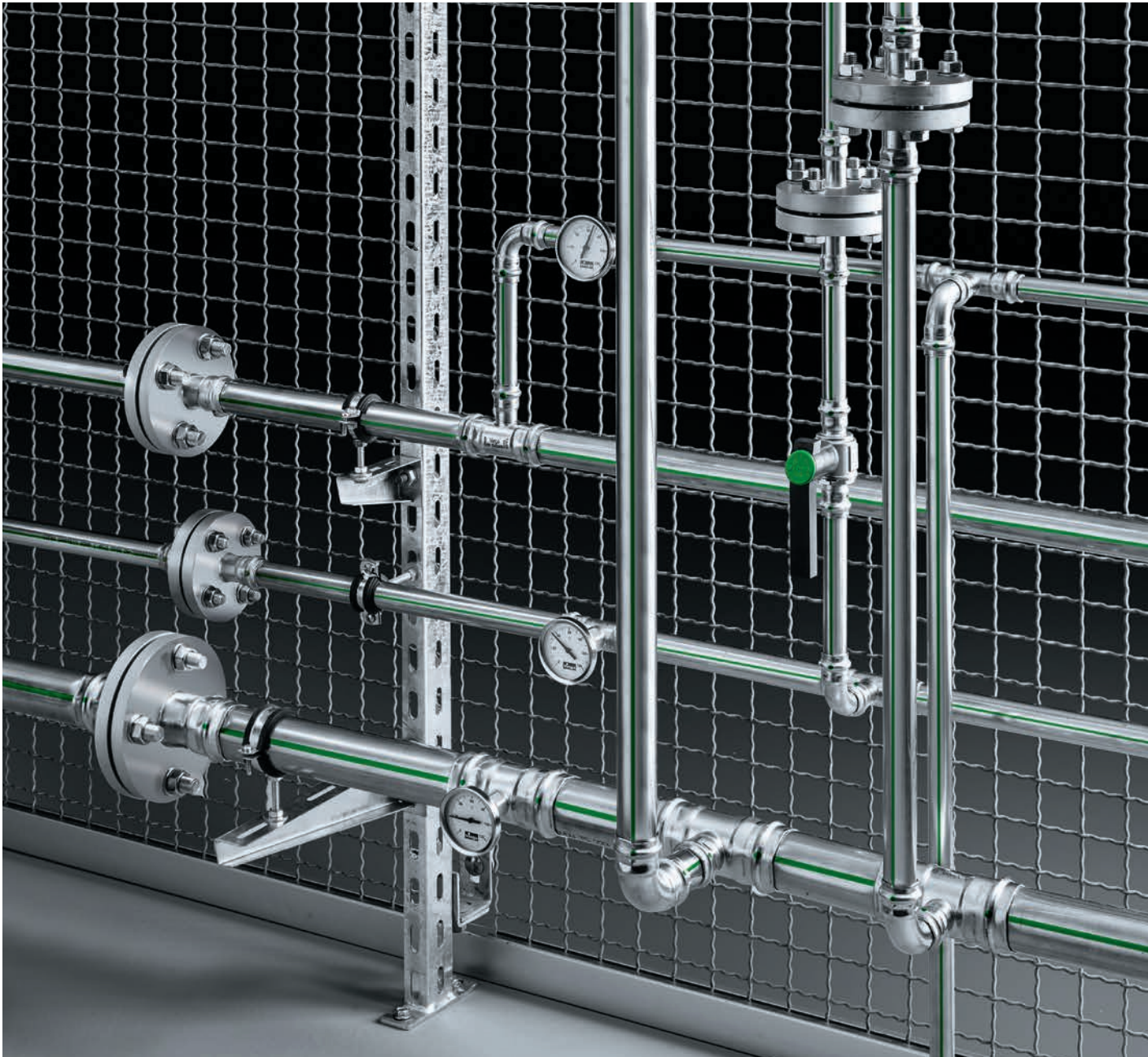


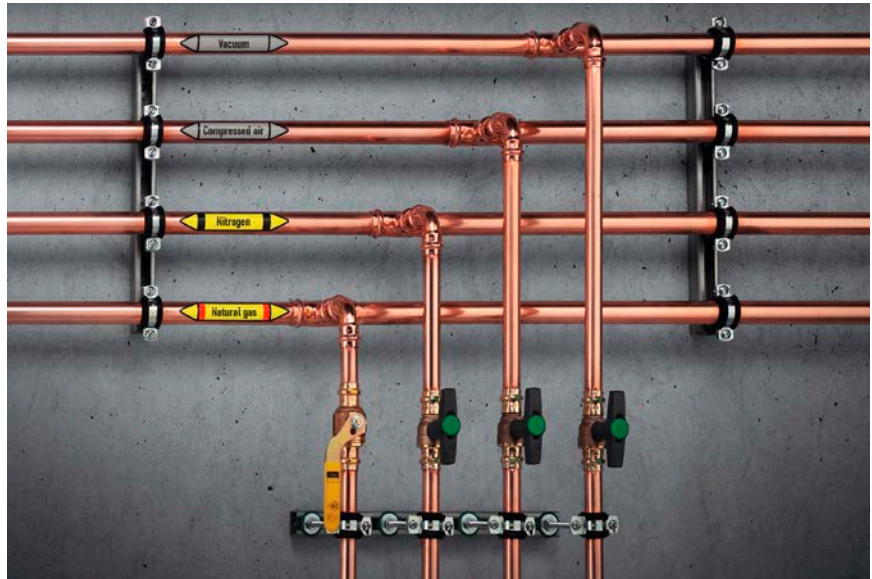
**Information for planning and execution**  
**Fields of applications**  
**for metal installation systems**





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For many years, Viega press connecting technology with the Sanpress, Sanpress Inox, Prestabo and Profipress systems has proved its worth for use in drinking water and building services installations. Increasingly often, it is now used in industrial systems with special operating conditions in terms of pressure, temperature, and concentration of the transported media, requiring careful selection of the pipe and sealing materials.

This brochure intends to help with this selection. In special cases, please contact our Service Center to discuss whether your application is in compliance with the "intended use" of a system. For inquiries via fax, please use the annexed checklist.



Viega press connector systems are not approved for pharmaceutical and food installations.

The contents of this product information are not binding. We reserve the right to changes reflecting new insights and technical progress.

## Conversion Bar/Pascal

bar	mbar	Pa	kPa	hPa	MPa
1	1000	100000	100	1000	0.1
0.001	1	100	0.1	1	0.0001
0.01	10	1000	1	10	0.001
0.1	100	10000	10	100	0.01

## Sealing elements – Technical data

Sealing element - short name	Technical designation	Viega press connector system application	Colour
EPDM	Ethylene propylene diene rubber	Sanpress Inox/ Sanpress/Profipress/ Megapress	polished black
HNBR	Acrylonitrile butadiene rubber	Sanpress Inox G/ Profipress G/ Megapress G	yellow
FKM	Fluor rubber	Sanpress Inox/ Sanpress/Profipress/ Megapress S	matt black

# 1 Pipes and press connectors – transported media

## 1.1 Waters, frost and corrosion protection, heat carriers

System name		Profipress		Profipress S		Sanpress			Prestabo		Mega-press	Mega-press S	Sea-press
		stainless steel	1.4520	copper	stainless steel	1.4521	1.4401	1.4521	1.4401	galvanised	steel	steel thick-walled	CuNiFe
Medium	Comment	P <sub>max</sub> [MPa]	T <sub>max</sub> [°C]	Sealing element	Connector material	Pipe material	Profipress S	Sanpress	Prestabo	Mega-press	Mega-press S	Sea-press	
Drinking water	Requirement according to DWO, DIN 50 930-6	1.6	110	EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised	steel	steel thick-walled	CuNiFe	
Treated water (no drinking water)	Fully desalinated, deionised, demineralised, distilled (open system)		≥ -25	EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised steel	steel	steel thick-walled	CuNiFe	
Cooling water, closed circuit	Open systems available on request		120	EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised steel	steel	steel thick-walled	CuNiFe	
Vapour	Low pressure steam units	≤ 0.1	120	EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised steel	steel	steel thick-walled	CuNiFe	
Well water	Requirements in acc. with DWO	1.6	110	EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised steel	steel	steel thick-walled	CuNiFe	
Pump hot water heating systems	in acc. with DIN EN 12 828	1.6	105	EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised steel	steel	steel thick-walled	CuNiFe	

Medium	Comment	P <sub>max</sub> [MPa]	T <sub>max</sub> [°C]	Sealing element	Connector material	Pipe material	Profipress S	Sanpress	Prestabo	Mega-press	Mega-press S	Sea-press
Anti-freeze, cooling brines concentration of 50%		1.6	-25 to 110	EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised steel	steel	steel thick-walled	CuNiFe
Potassium Acetate/-formiat brine				EPDM	copper gunmetal Silicon bronze	stainless steel	1.4520	1.4521	galvanised steel	steel	steel thick-walled	CuNiFe

Product/manufacture	Profipress	Profipress S	Sanpress	Prestabo	Mega-press	Mega-press S	Sea-press
Antifrogen N / Clariant	✓ <sup>11)</sup>	✓ <sup>10)</sup>	✓	✓ <sup>3)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓
Antifrogen L / Clariant	✓ <sup>11)</sup>	✓ <sup>10)</sup>	✓	✓ <sup>3)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓
Antifrogen Sol (solar installations) / Clariant	✓ <sup>11)</sup>	✓ <sup>10)</sup>	✓	✓ <sup>3)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓
Ethylene glycol (Ethan-1,2-diol)	✓ <sup>11)</sup>	✓ <sup>10)</sup>	✓	✓ <sup>3)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓
Propylene glycol (1,2-Propandiol)	✓ <sup>11)</sup>	✓ <sup>10)</sup>	✓	✓ <sup>3)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓
Tyfoxit / Tyforop-Chemie	✓ <sup>11)</sup>	✓ <sup>10)</sup>	✓	✓ <sup>3)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓
Tyfofor / Tyforop-Chemie	✓ <sup>11)</sup>	✓ <sup>10)</sup>	✓	✓ <sup>3)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓
TEMPER®	✓	✓	✓	✓	✓	✓	✓
Antifrogen KF / Clariant	✓	✓	✓	✓	✓	✓	✓
Glysofor KF / Wittig	✓	✓	✓	✓	✓	✓	✓

<sup>1)</sup> sealing elements replaced for FKM  
<sup>2)</sup> without additives  
<sup>3)</sup> corrosion protection acc. to AGI Q151  
<sup>7)</sup> corrosion protection for the pipes acc. to AGI Q151; thanks to their zinc-nickel coating, the Megapress connectors do not require any corrosion protection  
<sup>11)</sup> The use of Sanpress and Sanpress Inox press connectors is recommended. When using Profipress press connectors made of copper the connection points between pipe and press connector have to be protected with a corrosion prevention agent.  
<sup>17)</sup> Resistance < 1 MΩ · cm (at 25 °C)

<sup>8)</sup> following coordination with the Attendorn factory  
<sup>9)</sup> only applicable for Megapress silicon bronze adapter, model 4213.2  
<sup>10)</sup> for operating temperatures of -5 °C to +140 °C

## 1.2 Oils

Medium	Comment	P <sub>max</sub> [MPa]	T <sub>max</sub> [°C]	System name		Profipress		Sanpress		Profipress G		Sanpress Inox G		Prestabo		Mega-press S		Mega-press G		Sea-press		
				Profi-press	Sanpress	Profi-press G	Sanpress Inox G	Prestabo	Mega-press S	Mega-press G	Sea-press											
Mineral oils SAE	15–108 mm/3/8–4 inch	1.6	70	copper	1.4521, 1.4520, 1.4401, stainless steel	copper	stainless steel	steel galvanised	steel thick-walled													
Fuel oil acc. to DIN 51603-1 Diesel acc. to DIN EN 590	according to TRbF (German Technical Regulations for Flammable Liquids) 12–54 mm/1/2–2 inch	0.5	40	copper gunmetal Silicon bronze	1.4521, 1.4520, stainless steel	copper gunmetal Silicon bronze	stainless steel	steel galvanised	steel zinc-nickel plated													
Palm oil				EPDM	EPDM	HNBR	HNBR	EPDM	EPDM													
Rapeseed oil	DIN W 51805																					
Soy oil		1.0	70																			
Sunflower oil																						
Biodiesel	EN 14214				1.4521, 1.4520, 1.4401, stainless steel																	
Palm oil heating			90		1.4521, 1.4520, 1.4401, stainless steel																	

<sup>1)</sup> sealing elements replaced for FKM

<sup>4)</sup> in connection with Viega stainless steel pipe 1.4521, 1.4520 and 1.4401

<sup>8)</sup> following coordination with the Attendorn factory





system name	pipe material	Sealing element <sup>12)</sup>	T <sub>max</sub> [°C]	Solid particles <sup>13)</sup>										Residual moisture content class										Oil content class				
				0	1	2	3	4	5	6	7	X	0	1	2	3	4	5	6	7	8	9	X	0	1	2	3	4
<b>Seapress</b>	Copper nickel wrought alloy to DIN 86019 WL 2.1972.11 or WL 2.1972.22	EPDM																										
		FKM <sup>15)</sup>																										
<b>Prestabo</b>	Externally galvanised model 1103/1103XL	EPDM																										
		FKM <sup>15)</sup>																										
		EPDM																										
		FKM <sup>15)</sup>																										
<b>Prestabo LF</b>	Externally and internally galvanised model 1106/1106XL	EPDM	1,6																									
		FKM <sup>15)</sup>																										
		EPDM																										
		FKM <sup>15)</sup>																										
<b>Megapress</b>	Steel pipes according to DIN EN 10255	EPDM																										
		FKM																										
<b>Megapress S</b>	DIN EN 10220	EPDM																										
		FKM																										
<b>Megapress G</b>	DIN EN 10216-1	EPDM																										
		FKM																										
<b>Megapress G</b>	DIN EN 10217-1	EPDM																										
		FKM																										

✓ = For use

✗ = Not for use

O = Conditional use, consultation with the Service Center required

<sup>12)</sup> EPDM sealing element for oil concentrations < 25 mg/m<sup>3</sup>
<sup>13)</sup> Recommendation for classes 1 to 3: Flush the line before commissioning

<sup>15)</sup> The EPDM factory-fitted sealing element can be exchanged for a FKM sealing element on-site

## 1.4 Gases

System name		Profipress		Profipress S		Sanpress					Profipress G		Sanpress Inox G		Prestabo		Mega-press S		Mega-press G		Sea-press			
		copper	stainless steel	1.4520	stainless steel	1.4520	1.4521	1.4520	1.4401	1.4521	1.4521	1.4401	stainless steel	1.4521	1.4521	1.4401	galvanised	steel	steel	thick-walled	CuNi-Fe	CuNi-Fe		
Medium	Comment	$p_{max}$ [MPa]	$T_{max}$ [°C]																					
Natural gas		0.5																						
Liquid gases, propane, butane, methane	according to G 260																							
Acetylene	Test pressure 2.4 MPa	0.15																						
Argon	15–28mm	1.6																						
	12–54 mm/3/8–2 inch	1.0																						
Carbogen	64–108 mm/2 1/2–4 inch	1.6																						
	CO <sub>2</sub> + O <sub>2</sub> dry	1.0																						
Oxygen – O <sub>2</sub>	12–54 mm/3/8–2 inch	1.0	60																					
	Keep free of oil and grease	1.0																						
Nitrogen – N <sub>2</sub>	12–54 mm/3/8–2 inch	1.6																						
	Downstream of the vaporiser	1.0																						
Hydrogen – H <sub>2</sub>	64–108 mm/2 1/2–4 inch	0.5																						
	12–108 mm/3/8–2 inch	0.5																						
Carbon dioxide – CO <sub>2</sub>	dry	1.6																						
	12–54mm	1.0																						
Carbon monoxide – CO	64–108mm	1.6																						
	Stainless steel parts not permitted	1.0																						
	12–54mm	1.6																						
	64–108mm	1.0																						

\* Purity requirements acc. to DIN EN 437 available on request

<sup>7)</sup> BAM certified

<sup>8)</sup> following coordination with the Attendorm factory

<sup>14)</sup> TÜV certified

<sup>16)</sup> ≤ DN 25 / also applies for Sanpress Inox LF (labs-free)

<sup>1)</sup> sealing elements replaced for FKM

<sup>4)</sup> in connection with Viega stainless steel pipe 1.4521, 1.4520 and 1.4401

<sup>5)</sup> in case of HTR (higher thermal resistance) requirement, max. permitted operating pressure  $p_{max} = 0.1$  MPa

System name		Profi-press		Profi-press S		Sanpress					Profi-press G		Sanpress Inox G		Prestabo		Mega-press			Mega-press S	Mega-press G	Sea-press	
Medium	Comment	$P_{max}$ [MPa]	$T_{max}$ [°C]	1.4520	1.4520	1.4521	1.4520	1.4521	1.4520	1.4521	1.4401	1.4521	1.4401	stainless steel	galvani- sed	steel	steel	steel	steel	steel	steel	CuNiFe	
Coarse vacuum	$P_{abs} = 1\text{hPa}$		70	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Forming gas, dry/inert gas	Ar + CO <sub>2</sub> (e.g. corgon) 15–54 mm / 3/8–2 inch 64–108 mm / 2 1/2–4 inch	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrous oxide (laughing gas)	12–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethane	12–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethene (ethylene)	12–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Helium	12–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Krypton	15–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Neon	15–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Propene (propylene)	15–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xenon	15–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Synthetic air	12–54 mm 64–108 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		1.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\* Purity requirements acc. to DIN EN 437 available on request

<sup>1)</sup> sealing elements replaced for FKM

## 1.5 Special media - Examined and approved

System name		Profipress		Sanpress			Profi-press G		Sanpress Inox G		Prestabo		Mega-press S		Mega-press G		Sea-press	
		copper	stainless steel 1.4520	1.4521	1.4520	1.4401	1.4521	1.4401	1.4521	1.4401	Stainless steel 1.4401	steel galvanised	steel thick-walled	CuNiFe	steel	steel zinc-nickel plated	CuNiFe	EPDM
Medium	Comment	$P_{max}$ [MPa]	$T_{max}$ [°C]															
Urea solution	Max. concentration 40 %	1.0	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethanol			25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Methanol	Caution: toxic!			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Condensate	from gas-powered calorific value devices, not from oil-powered calorific value devices!	1.6	110	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Condensate	of vapour			✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓
Glycerine triacetate		0.1	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Caustic soda	30 % aqueous solution	1.0	60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Caustic soda	50 % aqueous solution			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Acetone	Liquid	0.5	-10 to 40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ammoniac	Medium free from CO <sub>2</sub> + H <sub>2</sub> O Caution: toxic!	0.2	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Biogas – before bio-gas treatment	45–70 % CH <sub>4</sub> / 20–45 % CO <sub>2</sub> / H <sub>2</sub> S < 30 mg/m <sup>3</sup>	0.5	70							✓								
Biogas – after biogas treatment	according to G260 and G262									✓ <sup>5)</sup>								✓
Fermenter heating	Substrate temperature 65 °C	1.0	105	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\* Purity requirements acc. to DIN EN 437 available on request

<sup>5)</sup> in case of HTR (higher thermal resistance) requirement, max. permitted operating pressure  $p_{max} = 0.1$  MPa

<sup>6)</sup> without contamination

<sup>8)</sup> following coordination with the Attendorn factory

## 2 Valves – transported media

### 2.1 Waters, frost and corrosion protection, heat carriers

Product name		Easytop ball valve	Free-flow valve	Easytop Inox ball valve	Profipress G gas ball valve	Gas ball valve
Model no.		2270, 2270.4, 2270.10, 2275, 2275.3, 2275.4	2242, 2278	2370	2670, 2670.4, 2671, 2671.3	G2101
Press connector material		gunmetal Silicon bronze		stainless steel	gunmetal Silicon bronze	brass
Seal		EPDM	EPDM	EPDM	HNBR	
Medium	Comment	$P_{max}$ [MPa]	$T_{max}$ [°C]			
Drinking water	Requirement acc. to DWO, DIN 50 930-6		110	✓	✓	
Treated water (no drinking water)	Fully desalinated, deionised, demineralised, distilled (open system)			✓	✓	
Cooling water, closed circuit	Open systems available on request	1.6	≥-25	✓	✓	
Well water	Requirements in acc. with DWO		110	✓	✓	
Pump hot water heating systems	in acc. with DIN EN 12 828		105	✓	✓	

Product/manufacturer	✓	✓	✓	✓	✓	✓
Antifrogen N / Clariant	✓	✓	✓	✓	✓	✓
Antifrogen L / Clariant	✓	✓	✓	✓	✓	✓
Antifrogen Sol (solar installations) / Clariant	✓	✓	✓	✓	✓	✓
Ethylene glycol (Ethan-1,2-dio)	✓	✓	✓	✓	✓	✓
Propylene glycol (1,2-Propanedio)	✓	✓	✓	✓	✓	✓
Tyfoxit / Tyforop-Chemie	✓	✓	✓	✓	✓	✓
Tyfofor / Tyforop-Chemie	✓	✓	✓	✓	✓	✓
TEMPER® Antifrogen KF / Clariant Glysofor KF / Wittig	✓	✓	✓	✓	✓	✓

### Anti-freeze / corrosion protection / cold and heat carrier

## 2.2 Oils

Medium	Comment	Product name					
		Easytop ball valve	Free-flow valve	Easytop Inox ball valve	Profipress G gas ball valve	Gas ball valve	
		2270, 2270.4, 2270.10, 2275, 2275.3, 2275.4	2270.1, 2270.2, 2275.1, 2275.2, 2275.5, 2275.6	2370	2670, 2670.4, 2671, 2671.3	G2101	
		EPDM	gunmetal Silicon bronze	stainless steel	gunmetal Silicon bronze	brass	
			EPDM	EPDM	HNBR		
		$P_{max}$ [MPa]	$T_{max}$ [°C]				
Mineral oils SAE		1.6			✓	✓	
Palm oil					✓	✓	
Rapeseed oil	DIN W51805		70		✓	✓	
Soy oil		1.0			✓	✓	
Sunflower oil					✓	✓	
Palm oil heating	Valves not in palm oil		90	✓	✓		

## Oils

## 2.3 Gases

Product name		Easytop ball valve		Free-flow valve		Easytop inox ball valve		Profipress G gas ball valve		Gas ball valve			
		Model no.		Easytop ball valve		Free-flow valve		Easytop inox ball valve		Profipress G gas ball valve		Gas ball valve	
Press connector material		2270, 2270.4, 2270.10, 2275, 2275.3, 2275.4		2270.1, 2270.2, 2275.1, 2275.2, 2275.5, 2275.6		2242, 2278		2370		2670, 2670.4, 2671, 2671.3		G2101	
Seal		EPDM		gunmetal Silicon bronze		EPDM		stainless steel		gunmetal Silicon bronze		brass	
Medium		Comment		p <sub>max</sub> [MPa]		T <sub>max</sub> [°C]							
Compressed air	Oil concentration ≤ 25 mg/m <sup>3</sup> 12–54 mm	1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	64–108 mm												
	Oil concentration ≥ 25 mg/m <sup>3</sup> 12–54 mm												
Natural gas Liquid gases, propane, butane, methane	64–108 mm												
	according to G 260	0.5											
Argon	12–54 mm	1.6		✓	✓								
	64–108 mm	1.0											
Carbogen	12–54 mm	1.6	60	✓	✓								
	64–108 mm	1.0											
Nitrogen – N <sub>2</sub>	CO <sub>2</sub> + O <sub>2</sub> dry	1.6		✓	✓								
	Downstream of the vaporiser 12–54 mm	1.6		✓	✓								
Hydrogen – H <sub>2</sub>	64–108 mm	1.0		✓	✓								
	12–108 mm	0.5		✓	✓								
Carbon dioxide – CO <sub>2</sub>	dry	1.6		✓	✓								
	12–54 mm	1.0		✓	✓								
Carbon monoxide – CO	64–108 mm	1.0		✓	✓								
	Stainless steel parts not permitted	1.6		✓	✓								
Carbon monoxide – CO	12–54 mm	1.6		✓	✓								
	64–108 mm	1.0		✓	✓								

\* Purity requirements acc. to DIN EN 437 available on request

<sup>5)</sup> in case of HTR (higher thermal resistance) requirement, max. permitted operating pressure p<sub>max</sub> = 0.1 MPa

## Gases\*

Medium	Comment	P <sub>abs</sub> [MPa]	T <sub>max</sub> [°C]	Product name		Easytop ball valve		Free-flow valve	Easytop Inox ball valve	Profipress G gas ball valve	Gas ball valve
				Model no.	Press connector material	Seal	Easytop ball valve	Easytop ball valve	Easytop ball valve	Easytop ball valve	Easytop ball valve
Coarse vacuum	P <sub>abs</sub> = 1hPa		70								
Forming gas, dry/inert gas	Ar + CO <sub>2</sub> (e.g. argon) 15–54 mm 64–108 mm	1.6									
		1.0									
Nitrous oxide (laughing gas)	12–54 mm 64–108 mm	1.6									
		1.0									
Ethane	12–54 mm 64–108 mm	1.6									
		1.0									
Ethene (ethylene)	12–54 mm 64–108 mm	1.6									
		1.0									
Helium	15–54 mm 64–108 mm	1.6	60								
		1.0									
Krypton	15–54 mm 64–108 mm	1.6									
		1.0									
Neon	15–54 mm 64–108 mm	1.6									
		1.0									
Xenon	15–54 mm 64–108 mm	1.6									
		1.0									
Synthetic air	12–54 mm 64–108 mm	1.6									
		1.0									

\* Purity requirements acc. to DIN EN 437 available on request



## 2.4 Special media - Examined and approved

Product name		Easytop ball valve		Free-flow valve		Easytop Inox ball valve		Profipress G gas ball valve		Gas ball valve	
		Model no.	2270, 2270.4, 2270.10, 2275, 2275.3, 2275.4	2270.1, 2270.2, 2275.1, 2275.2, 2275.5, 2275.6	2242, 2278	2370	2670, 2670.4, 2671, 2671.3	G2101			
Press connector material		gunmetal Silicon bronze				stainless steel		gunmetal Silicon bronze		brass	
Seal		EPDM		EPDM		EPDM		HNBR			
Medium	Comment	$P_{max}$ [MPa]	$T_{max}$ [°C]								
Urea solution	Max. concentration 40 %	1.0	40				✓				
Ethanol			25	✓		✓					
Methanol	Caution: toxic!						✓				
Condensate	from gas-powered calorific value devices, not from oil-powered calorific value devices!	1.6	110				✓				
Condensate	of vapour			✓ <sup>6)</sup>		✓ <sup>6)</sup>					
Caustic soda	50% aqueous solution	1.0	60				✓				
Acetone	liquid		-10 to 40	✓		✓					
Biogas – after biogas treatment	according to G260 and G262	0.5	70						✓ <sup>5)</sup>		✓ <sup>5)</sup>
Fermenter heating	Substrate temperature 65 °C outside of the fermenter	1.0	105	✓		✓					

\* Purity requirements acc. to DIN EN 437 available on request

<sup>5)</sup> in case of HTR (higher thermal resistance) requirement, max. permitted operating pressure  $p_{max} = 0.1$  MPa

<sup>6)</sup> without contamination

# 3 Appendix – Form

## 3.1 Inquiry regarding material durability

### Inquiry regarding material durability



#### Global Service & Consulting-Team Application

Phone +49 (0) 2722 61 5666

material-request@viega.com

Customer		Building project	
Customer no.			
Customer/company*		Customer/company*	
Contact persons*		Contact persons	
Street*		Street	
Postal code/town*		Postal code/town	
Country*		Country	
Phone*		Phone	
Email*		Email	
		Potential*	

Information about the installation system	
Planned system*	
Dimension*	

Information about the medium			
Supplier/manufacturer*			
Trade name/designation*			
Application/function*			
Concentration of the medium*			
Other components			
	Time interval (Sec.)	Duration of the condition	
max. temp.*			
min. temp.*			
max. pressure*			
min. pressure*			
max. pH value			
min. pH value			

Information about the system				
Function of the complete system				
Installation site*	<input type="checkbox"/> Indoor			<input type="checkbox"/> Outdoor
Type of installation*	<input type="checkbox"/> open			<input type="checkbox"/> closed
Stagnation*	<input type="checkbox"/> yes		<input type="checkbox"/> no	
Ambient conditions*	<input type="checkbox"/> Interior spaces	<input type="checkbox"/> Country air	<input type="checkbox"/> City air	<input type="checkbox"/> Sea air
	<input type="checkbox"/> Industrial air	<input type="checkbox"/> Other:		
desired service life*	<input type="checkbox"/> < 1 year	<input type="checkbox"/> 1–5 years	<input type="checkbox"/> 5–10 years	<input type="checkbox"/> > 10 years

Free text field

\* Mandatory fields



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