

Liquids to Value



VARINLINE® Process Connections

For In-Line Control and Measurement Technology

Made by GEA Tuchenhagen



VARINLINE® Process Connections . . .

. . . are used for the integration of control and measurement instruments to keep your production process transparent. CIP-/SIP capability was imperative when designing the process connection fittings.

VARINLINE® Access Unit

The VARINLINE® Access Unit is used for the integration of control and measurement instruments into pipe systems of diameters designed for lowest liquid and gas volumes

up to very large product volumes. Two control and measurement instruments maximum can be incorporated into this type of process connection fitting.

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Range of Applications	Pipes			
	Instrumentation as well as Sight glasses			Sight glasses 100 mm
For the incorporation of				
Nominal width metric DIN 11850	DN 10 DN 15	DN 25	DN 40 – DN 125	DN 100 - DN 125
Nominal width Inch OD		1"	1 1/2" – 4"	4"
Nominal width Inch IPS			2" – 6"	6"
Nominal width ISO DIN EN ISO 1127	ISO 8 ISO 10 ISO 15	ISO 25	ISO 32 – ISO 100	
Material	1.4404 (ISO in 1.4435) 316L			
Process connection, type	B	F	N	G
Weld-in diameter	see nominal width			
Wall thickness max.	see nominal width			
Standard surface finish	inside Ra ≤ 0.8µm / outside matt* ISO inside Ra ≤ 0.8µm / outside non-treated**			
Standard component fittings (Connection element)	Clamp-connection	Hinged clamp connection (not illustrated)		
Pressure load max.	25 bar	25 bar	10 - 25 bar	10 bar
Delta ferrit	1.4404 upon request / 1.4435 ≤ 1%			
3.1 Certificate for fittings	Metric and Inch upon request; ISO yes			
2.2 Certificate for fittings	yes	yes	yes	yes
Product contacted O-ring seals				
EPDM (FDA conform) Standard	yes	yes	yes	yes
FKM (FDA conform)	yes	yes	yes	yes
PTFE	yes	yes	yes	yes
Standard scope of supply	Housing with connection elements as well as specific seals			
Lockings				
Locking material	1.4404 and 1.4435			1.4404
Locking product contacted	17 mm	50 mm	68 mm	114 mm

* other surface finish upon request, ** DN 125 on request

E® Connection Flange

ENT® Connection Flange allows the
of control and measurement
s also at tanks, using the proven
E® Process Connection as connection

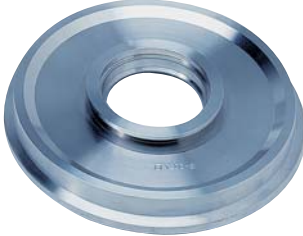
Different types are available to cover almost all
applications in different industries.

The connection flange type "P" combines highest
hygienic requirements with high safety standards
and allows its installation into tank walls of
20 mm thickness.

Connection Flange, type U

Connection Flange, type T

Connection Flange, type P



Pipes >DN 150		Tank bottom + Tank cover				Tank bottom + Tank cover	
Instrumentation shell as Sight glasses		Instrumentation as well as Sight glasses		Sight glasses 100 mm		Instrumentation	
1.4404 / 316L		1.4404 / 316L				1.4435 / 316L	
Material	N	F	N	G	F	N	
Thickness	85 mm	145 mm	165 mm	225 mm	130 mm	150 mm	
Height	4 mm	8 mm	8 mm	8 mm	20 mm	20 mm	
Inside and outside Ra ≤ 0.8µm*		inside and outside Ra ≤ 0.8µm*				inside and outside Ra ≤ 0.8µm*	
Hinged clamp connection (not illustrated)		Hinged clamp connection (not illustrated)				Pressure relieved - clamps	
Pressure	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	
upon request		1.4404 upon request / 1.4435 ≤ 1%				≤ 0,5%	
	yes	yes	yes	yes	yes	yes	
	yes	yes	yes	yes	yes	yes	
	yes	yes	yes	yes	yes	yes	
	yes	yes	yes	yes	yes	yes	
	yes	yes	yes	yes	yes	yes	
Flange with connection element and specific seal		Flange with connection element and specific seal				Flange with pressure relieved clamps and specific seal	
1.4404 and 1.4435		1.4404 and 1.4435				1.4404 and 1.4435	
Thickness	68 mm	50 mm	68 mm	114 mm	50 mm	68 mm	

Standard Component Connections

(Connection elements)



Clamp connection for process connection, type B



Hinged clamp connection for process connection, type F



Hinged clamp connection for process connection, type N



Hinged clamp connection for process connection, type G

Lockings



Type B



Type F



Type N



Type G



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