

Product Catalogue

CHEMSEAL® Diaphragm Seals







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CHEMSEAL Diaphragm Seal Type ET



Description

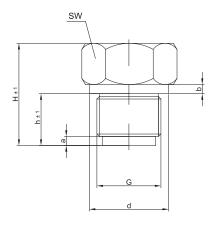
Diaphragm seal with thread connection

Anwendung

- for general appliactions
- for pressure switches, pressure transmiters or pressure gauges.
- for hot, polluted or aggressive media
- especially for high pressure

Technical Data	Standard	Options
Туре	Diaphragm seal with	n thread connection;
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request
Diaphragm coating	on re	quest
Instrument connection	1/2" BSP female	1/4" BSP female; welding connection
Process connection	see dimension	onal drawings
Nominal pressure	PN 600 -	PN 1000
Filling fluid	Multi purpose oil (-20°C - +200°C)	NT- / HT-oil; Halocarbon
Further options		
Capillary		
Cooling element		

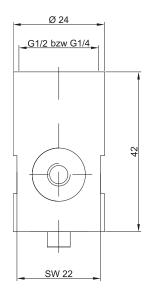
DIMENSIONAL DRAWING



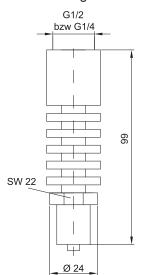
G	d h		Н	а	b	SW	
1/2" BSP male	26	17	33,5	3	3	27	
3/4" BSP male	32	19	34	3	3	32	
1" BSP male	39	21	36	3	3	41	
1 1/2" BSP male	55	25	48	3	3	55	
2" BSP male	68	27	56	3	3,5	70	



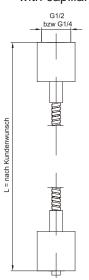
Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code		CS	02	х	х	-	х	-	x	х	х	X	х
	Body / Diaphragm 1.4571	1 (316Ti)		2									
Materials	Body / Diaphragm 1.4404			5	İ								
	Body 1.4571 (316Ti) / Diap	hragm Ta	antalum	Α							İ		
	direct			•	А				l		İ		İ
	capillary 1m				В								
	capillary 2m												
Mounting	capillary 3m	D											
	capillary 4m		E										
	capillary 5m		F										
	capillary 10m				K								
Nominal pressure	PN 40						002						
Nominal pressure	PN 400						047						
la atau ua a at	1/4" BSP female								4				
Instrument connection	1/2" BSP female							K					
Connection	welding connection								S				
Process connection	1/2" BSP male									D			
1 10cess connection	3/4" BSP male									- 1			
	without										0		
	Multi purpose oil										Α		
Fill fluid	Low temperature oil										С		
	High temperature oil										D		
	Halocarbon	lalocarbon								E			
	without											0	
Diaphragm coating	PTFE											Α	
	PFA											В	
Further options	no further options												0
. a.t.ioi optiono	further options in text	rther options in text										#	



CHEMSEAL Diaphragm Seal Type UT



Description

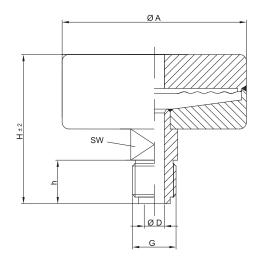
Diaphragm Seal with thread connection in completely welded version

Application

- for general applications, mechanical engineering as well as chemical and petrochemical industry
- for pressure switches, pressure gauges and pressure transmitters
- for hot, polluted or aggressive media

Technical Data	Standard	Options			
Туре	Diaphragm seal with diaphragm insid	n thread connection; de body, welded			
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request			
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request			
Instrument connection	1/2" BSP female	1/4" BSP female; welding connection			
Process connection	see dimension	onal drawings			
Nominal pressure	PN 40 ;	PN 400			
Filling fluid	Multi purpose oil (-20°C - +200°C)	LT- / HT-oil; Halocarbon			
Further Options					
Capillary					
Cooling element					

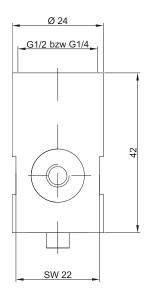
DIMENSIONAL DRAWINGS



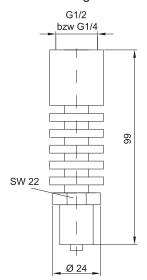
PN	G	ØA	ØD	h	Н	sw
40	1/4" BSP male	55	6	13	44,5	14
40	1/2" BSP male	55	10	20	51,5	14
400	1/4" BSP male	40	6	13	44,5	22
400	1/2" BSP male	40	10	20	51,5	22



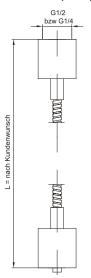
Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code		CS	03	х	х	-	х	-	х	х	х	х	х
	Body / Diaphragm 1.4571	(316Ti)		2									
Materials	Body / Diaphragm 1.4404	(316L)		5									
	Body 1.4571 (316Ti) / Diap	hragm Ta	antalum	А									
	direct				Α								
	capillary 1m				В								
	capillary 2m				С								
Mounting	capillary 3m		D										
	capillary 4m		E										
	capillary 5m		F										
	capillary 10m K												
PN 40						002							
Nominal pressure	PN 400 047												
	1/4" BSP female								4				
Instrument connection	1/2" BSP female								K				
COMMODITION	welding connection								S				
	1/2" BSP male									D			
Process connection	3/4" BSP male									- 1			
Frocess connection	1/2" BSP male (bore 10 n	nm)								Н			
	M20 x 1,5 (bore 13 mm)									Α			
	without										0		
	Multi purpose oil										Α		
Fill fluid	Low temperature oil										С		
	High temperature oil										D		
	Halocarbon										E		
without												0	
Diaphragm coating PTFE												Α	
	PFA											В	
Further options	no further options												0
i utitiei opiions	further options in text												#



CHEMSEAL Diapragm Seal Type ST



Description

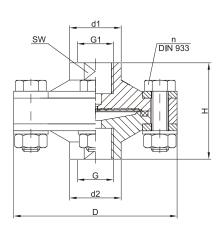
Diaphragm Seal with thread connection. Threaded version, disassemblable

Application

- for general applications, mechanical engineering as well as chemical and petrochemical industry
- for pressure switches, pressure gauges and pressure transmitters
- for hot, polluted or aggressive media

Technical Data	Standard	Options						
Туре	Diaphragm seal in threaded v diaphragm insid	ersion with thread connection; de body, welded						
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request						
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request						
Material seal	FKM	on request						
Instrument connection	see dimensional drawings							
Process connection	see dimension	onal drawings						
Nominal pressure	PN 25 ;	PN 250						
Filling fluid	Multi purpose oil (-20°C - +200°C)	LT- / HT-oil						
Further options								
Capillary								
Cooling element								

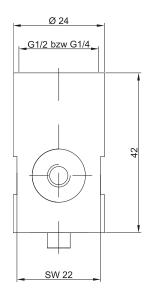
DIMENSIONAL DRAWING



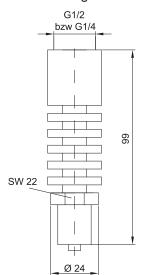
Р	N	G	G1	d1/ d2	D	Н	n	sw
2	25	1/2" BSP female	1/2" BSP female	30	95	56	4x M10	27
2	25	1/2" BSP male	1/2" BSP female	30	95	79	4x M10	27
2	25	1/2" NPT male	1/2" BSP female	30	95	76	4x M10	27
2	50	1/2" BSP female	1/2" BSP female	30	95	56	8x M10	27
2	50	1/2" BSP male	1/2" BSP female	30	95	79	8x M20	27
2	50	1/2" NPT male	1/2" BSP female	30	95	76	8x M10	27



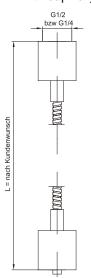
Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code		CS	04	Х	х	-	х	-	х	х	х	х	х
	Body / Diaphragm 1.4571	ragm 1.4571 (316Ti)		2									
Materials	Body / Diaphragm 1.4404	(316L)		5	ĺ								
	Body 1.4571 (316Ti) / Diap	hragm Ta	antalum	Α	1						ĺ		
	direct				Α						İ		
	capillary 1m				В								
	capillary 2m				С								
Mounting	capillary 3m				D								
	capillary 4m				E								
	capillary 5m				F								
	capillary 10m		K										
Nominal proceuro	PN 25						009						
Nominal pressure	PN 250						022						
Instrument	1/2" BSP female								K				
connection	welding connection								S				
	1/2" BSP female									K			
Process connection	1/2" BSP male									D			
	1/2" NPT male								V				
	without										0		
Fill fluid	Multi purpose oil										Α		
i ili ilala	Low temperature oil										С		
	High temperature oil										D		
	without										0		
Diaphragm coating	TFE									Α			
	PFA											В	
Further options	no further options												0
i utitici options	further options in text												#

CHEMSEAL Diaphragm Seal Type FT (DIN EN 1092-1 Form B2)



Description

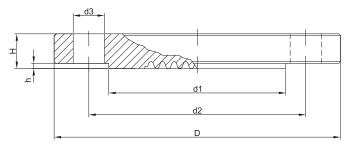
Diaphragm seal with flange connection

Application

- for general applications as well as the chemical and petrochemical industry and power plant technology
- for pressure switches, pressure gauges and pressure transmitters
- for hot, polluted or aggressive media

Technical Data	Standard	Options
Туре		h flange connection; diaphragm
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request
Diaphragm coating	PTFE, PFA, EC	ΓFE, Gold, Silver
Instrument connection	1/2" BSP female	1/4" BSP female; welding connection
Process connection	see dimension	onal drawings
Nominal pressure	see	table
Filling fluid	Multi purpose oil (-20°C - +200°C)	NT- / HT-oil; Halocarbon: NU52
Further options		
Capillary		
Cooling element		

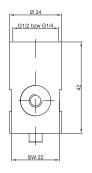
DIMENSIONAL DRAWING



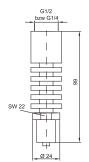
DN	PN	D	d1	d2	d3	Н	h
25	40	115	68	85	4x14	18	2
25	100	140	68	100	4x18	24	2
25	160	140	68	100	4x18	24	2
40	40	150	88	110	4x18	18	2
40	100	170	88	125	4x22	26	3
40	160	170	88	125	4x22	28	3
50	40	165	102	125	4x18	20	3
50	64	180	102	135	4x22	26	3
50	100	195	102	145	4x26	28	3
80	16	200	138	145	8x18	20	3
80	40	200	138	160	8x18	24	3
80	64	215	138	160	8x22	28	3
100	16	220	158	180	8x18	20	3
100	40	235	162	190	8x22	24	3
100	64	250	162	200	8x26	30	3
125	16	250	188	210	8x18	22	3
125	40	270	188	220	8x26	26	3
125	64	295	188	240	8x30	34	3



Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code			cs	05	х	х	-	х	-	х	F	х	х	х
	Body / Diap	hragm 1.457	1 (316Ti))	2									
Materials	Body / Diap	hragm 1.4404	4 (316L)		5	1								
	Body 1.4571	(316Ti) / Diap	hragm Ta	antalum	Α									
	direct					А								
	capillary 1m					В								
	capillary 2m					С								
Mounting	capillary 3m					D								
	capillary 4m					E								
	capillary 5m					F								
	capillary 10	m				K								
	PN	DN												
	25	40						004						
	25	100						014						
	40	40						006						
	40	100						051						
	40	160						052						
Naminal process /	50	40						000						
Nominal pressure / Nominal size	50	64						045						
	50	100						053						
	80	16						012						
	80	40						003						
	100	16						055						
	100	40						056						
	125	16						050						
	125	64						048						
	1/2" BSP fer									K				
Instrument	1/2" NPT fe	male								1				
connection	M20 x 1,5									М				
	welding con	nection								S				
	without											0		
	Multi purpos											Α		
Fill fluid	Low temper											С		
	High tempe											D		
	Halocarbon											Е		
	NU52											G		
	without												0	
Diaphragm coating	PFA	1							1				В	
	Gold												С	
Further options	no further o													0
. artifor optiono	further option	ns in text												#

CHEMSEAL Diaphragm Seal Type FT (ASME B16.5 RF)



Description

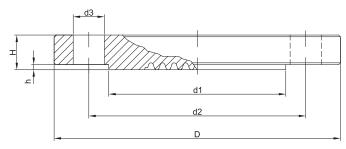
Diaphragm seal with flange connection

Application

- for general applications as well as the chemical and petrochemical industry and power plant technology
- for pressure switches, pressure gauges and pressure transmitters
- for hot, polluted or aggressive media

Technical Data	Standard	Options					
Туре	Diaphragm seal with flange connection; front facing diaphragm						
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request					
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request					
Diaphragm coating	PTFE, PFA, ECT	ΓFE, Gold, Silver					
Instrument connection	1/2" BSP female	1/4" BSP female; welding connection					
Process connection	see dimension	onal drawings					
Nominal pressure	see	table					
Filling fluid	Multi purpose oil (-20°C - +200°C)	NT- / HT-oil; Halocarbon: NU52					
Further options							
Capillary							
Cooling element							

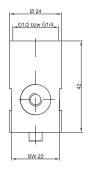
DIMENSIONAL DRAWING



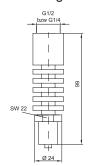
DN	CL	D	d1	d2	d3	Н	h
1"	150	108	51	79	4x16	14	1,5
1"	300	124	51	89	4x19	18	1,5
1"	600	124	51	89	4x19	18	6,3
1,5"	150	127	73	98	4x16	17	1,5
1,5"	300	155	73	114	4x22	21	1,5
1,5"	600	155	73	114	4x22	22	6,3
2"	150	152	92	121	4x19	19	1,5
2"	300	165	92	127	8x19	22	1,5
2"	600	165	92	127	8x19	25	6,3
3"	150	190	127	152	4x19	24	1,5
3"	300	210	127	168	8x22	28	1,5
3"	600	210	127	168	8x22	32	6,3
4"	150	229	157	190	8x19	24	1,5
4"	300	254	157	200	8x22	32	1,5
4"	600	254	157	200	8x25	35	6,3
5"	150	254	186	216	8x22	24	1,5
5"	300	279	186	235	8x22	35	1,5
5"	400	279	186	235	8x25	38	6,3



Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code			CS	06	х	х	-	х	-	x	F	х	х	х
	Body / Diap	hragm 1.457	1 (316Ti)		2									
Materials	Body / Diap	hragm 1.4404	4 (316L)		5	1								
	Body 1.4571	(316Ti) / Diap	hragm Ta	antalum	Α]								
	direct					Α								
	capillary 1m					В								
	capillary 2m					С								
Mounting	capillary 3m					D								
	capillary 4m					E								
	capillary 5m					F								
	capillary 10	m				K								
	DN	CL]						
	1"	150						032	1	ĺ				
	1"	300						005	1	ĺ				
	1,5"	150						031	1					
	1,5"	300						035	1	ĺ				
	1,5"	600						059	1					
	2"	150						036						
Nominal pressure / Nominal size	2"	300						037						
Norminal Size	2"	600						060						
	3"	150						038						
	3"	300						039						
	4"	150						040						
	4"	300						041						
	5"	150						063						
	5"	300						064						
	1/2" BSP fe									K				
Instrument	1/2" NPT fe	male								1				
connection	M20 x 1,5									М				
	welding con	nection								S				
	without											0		
	Multi purpos	se oil										Α		
Fill fluid	Low temper											С		
T III IIGIG	High tempe											D		
	Halocarbon											Е		
	NU52											G		
	without												0	
Diaphragm coating	PFA												В	
	Gold												С	
Further options	no further o	ptions												0
Tartifei options	further option	ns in text												#



CHEMSEAL Diaphragm seal Type WT (DIN EN 1092-1)



Description

Diaphragm seal cell-type with flange connection

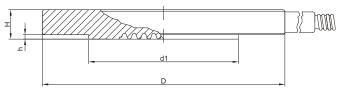
Application

- for general applications as well as the chemical and petrochemical industry and power plant technology
- for pressure switches, pressure gauges and pressure transmitters
- for hot, polluted or aggressive media

Technical Data	Standard	Options			
Туре	Diaphragm seal cell-type with flange connection; front facing diaphragm				
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request			
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request			
Diaphragm coating	PTFE, PFA, ECT	ΓFE, Gold, Silver			
Instrument connection	1/2" BSP female	1/4" BSP female; welding connection			
Process connection	see dimension	onal drawings			
Nominal pressure	see table				
Filling fluid	Multi purpose oil (-20°C - +200°C)	NT- / HT-oil; Halocarbon: NU52			

DIMENSIONAL DRAWING

Body



DN	PN	D	d1	Н	h
25	40	115	68	18	2
25	100	140	68	24	2
25	160	140	68	24	2
40	40	150	88	18	2
40	100	170	88	26	3
40	160	170	88	28	3
50	40	165	102	20	3
50	64	180	102	26	3
50	100	195	102	28	3
80	16	200	138	20	3
80	40	200	138	24	3
80	64	215	138	28	3
100	16	220	158	20	3
100	40	235	162	24	3
100	64	250	162	30	3
125	16	250	188	22	3
125	40	270	188	26	3
125	64	295	188	34	3



Instrument Connection, threaded, with capillary



ORDER CODES

order code			cs	07	х	х	-	х	-	х	F	х	х	х
	Body / Diap	hragm 1.457	1 (316Ti))	2									
Materials	Body / Diap	hragm 1.440	4 (316L)		5									
	Body 1.4571	(316Ti) / Diap	hragm Ta	antalum	Α									
	capillary 1m					В								
	capillary 2m	1				С								
Mounting	capillary 3m					D								
Mounting	capillary 4m	l				E								
	capillary 5m	1				F								
	capillary 10r	m				K								
	PN	DN												
	25	40						004						
	25	100						014						
	40	40						006						
	40	100						051						
	40	160						052						
	50	40						000						
Nominal pressure / Nominal size	50	64						045						
Norminal Size	50	100						053						
	80	16						012						
	80	40						003						
	100	16						055						
	100	40						056						
	125	16						050						
	125	64						048						
	1/2" BSP fer	male								K				
Instrument	1/2" NPT fei	male								1				
connection	M20 x 1,5									М				
	welding con	nection								S				
	without											0		
	Multi purpos	se oil										Α		
Till fluid	Low temper	ature oil										С		
Fill fluid	High temper	rature oil										D		
	Halocarbon											Е		
	NU52											G		
	without												0	
Diaphragm coating	PFA												В	
	Gold												С	
Footbass and an	no further o	ptions												0
Further options	further optio													#

CHEMSEAL Diaphragm seal Type WT (ASME B16.5 RF)



Description

Diaphragm seal cell-type with flange connection

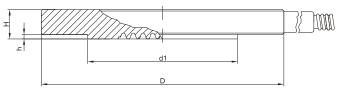
Application

- for general applications as well as the chemical and petrochemical industry and power plant technology
- for pressure switches, pressure gauges and pressure transmitters
- for hot, polluted or aggressive media

Technical Data	Standard	Options			
Туре	Diaphragm seal cell-type front facing	e with flange connection; diaphragm			
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request			
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request			
Diaphragm coating	PTFE, PFA, ECT	ΓFE, Gold, Silver			
Instrument connection	1/2" BSP female	1/4" BSP female; welding connection			
Process connection	see dimension	onal drawings			
Nominal pressure	see table				
Filling fluid	Multi purpose oil (-20°C - +200°C)	NT- / HT-oil; Halocarbon: NU52			

DIMENSIONAL DRAWING

Body



DN	CL	D	d1	d2	d3	Н	h
1"	150	108	51	79	4x16	14	1,5
1"	300	124	51	89	4x19	18	1,5
1"	600	124	51	89	4x19	18	6,3
1,5"	150	127	73	98	4x16	17	1,5
1,5"	300	155	73	114	4x22	21	1,5
1,5"	600	155	73	114	4x22	22	6,3
2"	150	152	92	121	4x19	19	1,5
2"	300	165	92	127	8x19	22	1,5
2"	600	165	92	127	8x19	25	6,3
3"	150	190	127	152	4x19	24	1,5
3"	300	210	127	168	8x22	28	1,5
3"	600	210	127	168	8x22	32	6,3
4"	150	229	157	190	8x19	24	1,5
4"	300	254	157	200	8x22	32	1,5
4"	600	254	157	200	8x25	35	6,3
5"	150	254	186	216	8x22	24	1,5
5"	300	279	186	235	8x22	35	1,5
5"	400	279	186	235	8x25	38	6,3



Instrument Connection, threaded, with capillary



ORDER CODES

order code		'	cs	07	х	х	-	х	-	х	F	х	х	х
	Body / Diap	hragm 1.457	1 (316Ti))	2									
Materials	Body / Diap	hragm 1.4404	4 (316L)		5	1				İ				
	Body 1.4571	(316Ti) / Diap	hragm Ta	antalum	Α	1								
	capillary 1m	1				В								
	capillary 2m					С								
Marratina	capillary 3m	1				D								
Mounting	capillary 4m	1				E								
	capillary 5m					F								
	capillary 10	m				K								
	DN	CL												
	1"	150						032						
	1"	300						005						
	1,5"	150						031						
	1,5"	300						035						
	1,5"	600						059						
	2"	150						036						
Nominal pressure / Nominal size	2"	300						037						
Norminal Size	2"	600						060						
	3"	150	038							İ				
	3"	300	039							İ				
	4"	150						040						
	4"	300						041						
	5"	150						063						
	5"	300						064						
	1/2" BSP fei	male	•							K				
Instrument	1/2" NPT fei	male								1				
connection	M20 x 1,5									М				
	welding con	nection								S				
	without											0		
	Multi purpos	se oil										Α		
Eill fluid	Low temper	ature oil										С		
Fill fluid	High tempe	rature oil										D		
	Halocarbon											Е		
	NU52											G		
	without												0	
Diaphragm coating	PFA												В	
_	Gold												С	
Frontle and an ex-	no further o	ptions												0
Further options	further option	-												#

CHEMSEAL Diaphragm Seal Type MT (DIN 11851)



Description

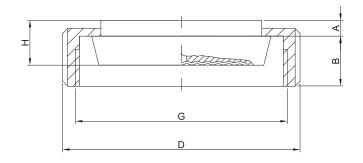
Diaphragm seal according to DIN 11851 for food stuff fitting / tubing

Application

- media seperator for hot, liquid food stuff or pharmaceutical products..
- FDA approved filling fluid
- for pressure switches, pressure gauges and pressure transmitters.

Technical Data	Standard	Options
Туре	Diaphragm seal according to DIN 11851 for flush diaphra	food stuff fitting / tubing acc. to DIN 11850; agm, welded
Material body	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);
Material diaphragm	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);
Material nut	Stainless steel 1.4301 (AISI 304)	on request
Instrument connection	1/2" BSP female	Welding connection; 1/4" BSP female
Process connection	DIN 11851	(with nut)
Nominal pressure	see dimensio	onal drawings
Filling fluid	NEOBEE® M-20 (FDA)	on request
Further options		
Capillary		
Cooling element		

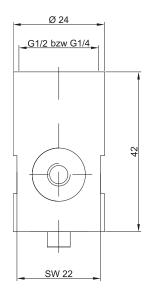
DIMENSIONAL DRAWING



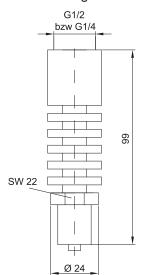
DN	PN	G [Rd]	D	Н
25	40	52x1/6"	63	14
32	40	58x1/6"	70	14
40	40	65x1/6"	78	14
50	25	78x1/6"	92	15
65	25	95x1/6"	112	15
80	25	110x1/4"	127	17
100	25	130x1/6"	149	19



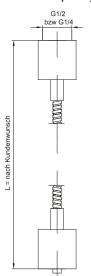
Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code			CS	09	х	х	-	х	-	х	F	х	0	х
	Body / Diap	hragm 1.457	1 (316Ti)		2									
Materials	Body / Diaphragm 1.4404		4 (316L)		5									
	Body / Diaphragm 1.4435 (316L)			7										
	direct				Α									
	direct with cooling element +200°C				L									
	capillary 1m				В									
Mounting	capillary 2m					С								
Mounting	capillary 3m					D								
	capillary 4m				E									
	capillary 5m					F								
	capillary 10	m				K								
	DN	PN												
	25	40						004						
	32	40						026						
Nominal pressure /	40	40						006						
Nominal size	50	25						021						
	65	25						024						
	80	25						027						
	100	25						029						
Instrument	1/2" BSP fei									K				
Instrument connection	1/4" BSP fe	male								4				
Commedian	welding connection								S					
Fill fluid	without											0		
i ili ilulu	NEOBEE®-M20, FDA-approved													
	no further o	otions												0
Further entions	surface roug	hness RA ≤	0,8 µm											В
Further options		ghness RA ≤												С
	further option	ns in text												#

CHEMSEAL Diaphragm Seal Type MT (IDF ISO 2853)



Description

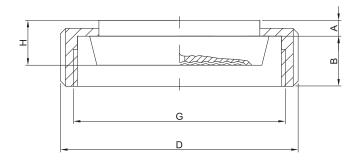
Diaphragm seal according to IDF ISO 2853 for food stuff fitting / tubing

Application

- media seperator for hot, liquid food stuff or pharmaceutical products..
- FDA approved filling fluid
- for pressure switches, pressure gauges and pressure transmitters.

Technische Daten	Standardausführung	Optionen							
Ausführung	Diaphragm seal according to IDF-Norm ISO 2853 for food stuff fitting / tubing acc. to BS 4825 P3 or O.D. Tube; flush diaphragm, welded								
Material body	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);							
Material diaphragm	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);							
Material nut	Stainless steel 1.4301 (AISI 304)	on request							
Instrument connection	1/2" BSP female	Welding connection; 1/4" BSP female							
Prozessanschluss	IDF Norm ISO	2853 (with nut)							
Nenndruck	see	table							
Filling fluid	NEOBEE® M-20 (FDA)	on request							
Further options									
Capillary									
Cooling element									

DIMENSIONAL DRAWING



DN [inch]	DN [mm]	PN	G [IDF]	В	Н	
1"	25	40	1"	30	21	
1 1/2"	38	40	1 1/2"	30	13,5	
2"	51	25	2"	30	15	
2 1/2"	63,5	25	2 1/2"	30	20	
3"	76,1	25	3"	30	22	



CHEMSEAL Diaphragm Seal Type MT (SMS)



Description

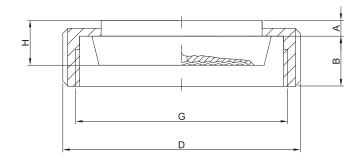
Diaphragm seal according to SMS norm for food stuff fitting / tubing

Application

- media seperator for hot, liquid food stuff or pharmaceutical products..
- FDA approved filling fluid
- for pressure switches, pressure gauges and pressure transmitters.

Technische Daten	Standardausführung	Optionen								
Ausführung	Diaphragm seal according to SMS Norm for food stuff fitting / tubing acc. to BS 4825 P3 or O.D. Tube; flush diaphragm, welded									
Material body	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);								
Material diaphragm	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);								
Material nut	Stainless steel 1.4301 (AISI 304)	on request								
Instrument connection	1/2" BSP female	Welding connection; 1/4" BSP female								
Prozessanschluss	SMS (v	vith nut)								
Nenndruck	see	table								
Filling fluid	NEOBEE® M-20 (FDA)	on request								
Further options										
Capillary										
Cooling element	Cooling element									

DIMENSIONAL DRAWING



DN [inch]	PN	G [Rd]	В	н
1"	40	40x1/6"	19	16
1 1/2"	40	60x1/6"	23	16
2"	25	70x1/6"	24	16
2 1/2"	25	85x1/6"	28	16
3"	25	98x1/6"	30	20



CHEMSEAL Diaphragm seal Type CT (Tri-Clamp)



Description

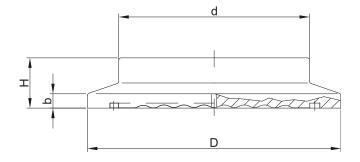
Diaphragm seal with quick lock according to "Tri-Clamp"-specification for food stuff fitting / tubing

Application

- media seperator for hot, liquid food stuff or pharmaceutical products.
- FDA approved filling fluid
- for pressure switches, pressure gauges and pressure transmitters.

Technical Data	Standard	Options						
Туре	Diaphragm seal with quick lock according to "Tri-Clamp"-specification for for food stuff fitting / tubing according to BS 4825 P3 and ASME BPE; flush diaphragm, welded							
Material body	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);						
Material diaphragm	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4435 (AISI 316L);						
Instrument connection	1/2" BSP female	Welding connection; 1/4" BSP female						
Process connection	Process connection quick lock according to "Tri-Clamp"-specification							
Nominal pressure	see dimension	onal drawings						
Filling fluid	NEOBEE® M-20 (FDA)	on request						
Further options								
Capillary								
Cooling element								

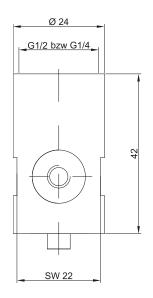
DIMENSIONAL DRAWING



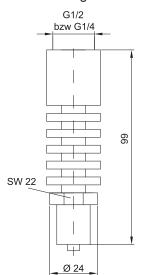
DN	PN	D	d	Н	b	
3/4"	40	25	38	10	2,85	
1"	40	50,5	38	10	2,85	
1 1/2"	40	50,5	38	10	2,85	
2"	40	64	38	10	2,85	
2 1/2"	25	77,5	38	10	2,85	
3"	25	91	38	10	2,85	



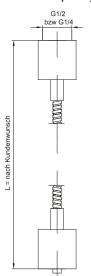
Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code			CS	10	х	х	-	х	-	X	F	х	0	X
	Body / Diapl	 nragm 1.457	1 (316Ti)		2									
Materials	Body / Diaphragm 1.4404		4 (316L)		5	ĺ								
	Body / Diaphragm 1.4435 (316L)			7	1									
	direct			•	Α	1								
	direct with cooling element +200°C				L									
	capillary 1m					В								
Mounting	capillary 2m					С								
Mounting	capillary 3m					D								
	capillary 4m					E								
	capillary 5m			F										
	capillary 10r	n			K									
	DN	PN												
	3/4"	40						015						
Naminal massage /	1"	40						016						
Nominal pressure / Nominal size	1 1/2"	40						017						
140111111111111111111111111111111111111	2"	25						018						
	2 1/2"	25						019						
	3"	25						020						
la atau uaa a at	1/2" BSP fer	nale								K				
Instrument connection	1/4" BSP fer	nale								4				
Connection	welding connection S													
Fill fluid	without													
FIII IIUIU	NEOBEE®-M20, FDA-approved													
	no further or	otions												0
Further entions	surface roughness RA ≤ 0,8 µm									В				
Further options	surface roug	hness RA ≤	0,4 µm											С
	further optio	ns in text												#



CHEMSEAL Diaphragm seal Type VT



Description

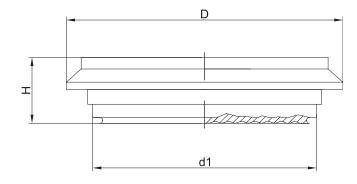
Diaphragm seal for VARIVENT® in-line housing

Application

- media seperator for hot, liquid food stuff or pharmaceutical products.
- FDA approved filling fluid
- for pressure switches, pressure gauges and pressure transmitters.

Technical Data	Standard	Options
Туре	, ,	IIVENT® In-Line housing; agm, welded
Material body	Stainless steel 1.4571 (AISI 316Ti)	Stainless steel 1.4404 (AISI 316L); Stainless steel 1.4435 (AISI 316L);
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	Stainless steel 1.4404 (AISI 316L); Stainless steel 1.4435 (AISI 316L);
Instrument connection	1/2" BSP female	Welding connection; 1/4" BSP female
Process connection	for VARIVENT®	In-Line housing
Nominal pressure	depending on VARIVI	ENT® In-Line housing;
Filling fluid	NEOBEE®-M20, FDA-konform	on request
Further options		
Capillary		
Cooling element		

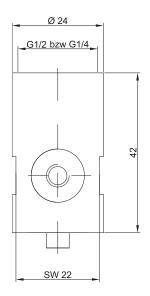
DIMENSIONAL DRAWING



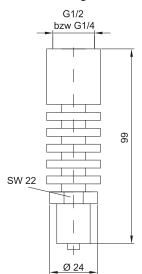
DN	D	d1	Н
25 / 1"	66	50	19
40 - 125 / 1 1/2" - 6"	84	68	19



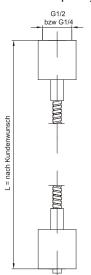
Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code		CS	11	х	х	-	х	-	х	F	х	0	х
	Body / Diaphragm 1.4571	(316Ti)											
Materials	Body / Diaphragm 1.4404	(316L)											
	Body / Diaphragm 1.4435	(316L)											
	direct				Α								
	direct with cooling elemer	nt +200°	С		L								
	capillary 1m				В								
Mounting	capillary 2m				С								
INIOUTILITY	capillary 3m				D								
	capillary 4m				Е								
	capillary 5m				F								
	capillary 10m				K								
Nominal size	for housing DN 25 / 1"						015						
Norminal Size	for housing DN 40 - DN 12	25 / 1 1/	2" - 6"				016						
	1/2" BSP female								K				
Instrument connection	1/4" BSP female								4				
001110011011	welding connection								S				
Fill fluid	without								0				
T III IIUIU	NEOBEE®-M20, FDA-ap	proved									- 1		
	no further options												0
Further options	surface roughness RA ≤ 0,8 μm											В	
Truitiei options	surface roughness RA ≤ 0,4 µm												С
	further options in text												#



CHEMSEAL Diaphragm seal Type PT



Description

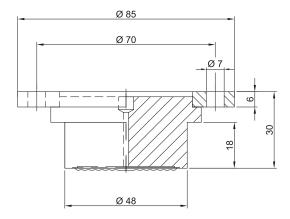
Diaphragm seal for paper and pulp industry

Anwendung

- special diaphragm seal for liquefied fiber and cellulosic suspensions
- for pressure switches, pressure gauges and pressure transmitters
- for hot, polluted or aggressive media

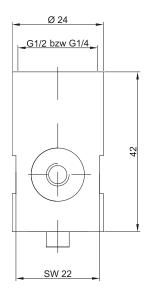
Technical Data	Standard	Options							
Ausführung	special diaphragm seal for liquefied fiber and cellulosic suspensions, front facing diaphragm, welded								
Material body	Stainless steel 1.4571 (AISI 316Ti)	on request							
Material diaphragm	Stainless steel 1.4571 (AISI 316Ti)	on request							
Material clamping flange	Stainless steel 1.4301 (AISI 304)	on request							
Instrument connection	1/2" BSP female	Welding connection; 1/4" BSP female							
Process connection	DN 48	on request							
Nominal pressure	PN	40							
Filling fluid	Multi purpose oil (-20°C - +200°C)	NT- / HT-Öl							
Further options									
Capillary									
Cooling element									

DIMENSIONAL DRAWING

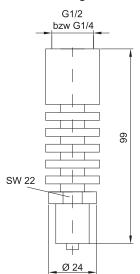




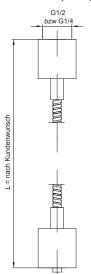
Instrument Connection, threaded



Instrument Connection, threaded, with cooling element



Instrument Connection, threaded, with capillary



ORDER CODES

order code		CS	08	х	х	-	002	-	х	F	х	0	х
Materials	Body / Diaphragm 1.4571												
	Body / Diaphragm 1.4404 (316L)												
	Body 1.4571 (316Ti) / Dia												
Mounting	direct												
	capillary 1m	В											
	capillary 2m	С											
	capillary 3m	D											
	capillary 4m				Е								
	capillary 5m	F											
	capillary 10m	K											
Instrument connection	1/2" BSP female			K									
	1/4" BSP female		4										
	welding connection	S											
Fill fluid	without												
	Multi purpose oil												
	Low temperature oil												
	High temperature oil												
Further options	no further options												0
	further options in text												#



CONVERSION TABLE FOR PRESSURE UNITS

	psi	14,504 x 10 ⁻³	14,504	0,14504 x 10³	0,14504	0,14504 x 10³	1,4223 x 10³	1,4223	14,223	14,693	19,34 x 10 ⁻³	•
	Torr	0,75006	750,06	7,5006 x 10³	7,5006	7,5006 x 10³	73,556 × 10³	73,556	735,56	760	•	51,715
	atm	0,98692 x 10³	0,9869	9,8692 x 10 ⁻⁶	9,8692 x 10³	9,8692	96,784 × 10 ⁻⁶	96,784 × 10³	0,96784	•	1,3158 x 10³	0,70307 x 10 ⁶
	kp/cm²	1,0197 x 10 ⁻³	1,0197	0,10197 x 10 ⁻⁶	10,197 x 10³	10,197	10-4	10-1	•	1,0332	1,3595 x 10³	0,70307 x 10³
al Units	m WC	10,197 x 10³	10,197	0,10197 x 10³	0,10197	0,10197 x 10³	10³	•	10	10,332	13,595 x 10³	0,70307
Technical Units	mm WC	10,197	10,197 × 10³	0,10197	0,10197 × 10³	0,10197 x 10 ⁶	•	10³	104	10,332 × 10³	13,595	0,70307 x 10³
	МРа	0,0001	0,1	0,000001	0,001	•	9,8067 × 10 ⁻⁶	9,8067 x 10³	98,067 × 10³	0,10133	0,13332 x 10³	6,8948 × 10³
	кРа	0,1	100	0,001	•	1.000	9,8067 x 10 ⁻³	9,8067	98,067	0,10133 x 10³	0,10133	6,8948
onal Units	Ра	100	100.000	•	1.000	1.000.000	9,8067	9,8067 × 10³	98,067 × 10³	0,10133 x 10°	0,10133 x 10³	6,8948 × 10³
Standard International	bar	0,001	•	0,00001	0,01	10	98,067 × 10°	98,067 × 10³	0,98067	1,0133	1,3332 x 10³	68,948 × 10³
Standaro	mbar	•	1.000	0,01	10	10.000	98,067 × 10³	98,067	0,98067 x 10³	1,0133 x 10³	1,3332	68,948
		mbar	bar	Ра	кРа	MPa	mm WS	m WS	kp/cm²	atm	Torr	psi
Standard International atinU							Zechnical Units					



INQUIRY CHECKLIST CHEMICAL SEALS (BY FAX TO +49-6262-92670-99)

Company's name and address	contact person					
	telephone, fax					
inquiry no. / project no.	E-Mail					
application	measured media					
wetted parts material	housing material					
media temperature	environmental temperatur					
$ au_{\scriptscriptstyle min}$ $ au_{\scriptscriptstyle max}$	T_{min} T_{max}					
pressure load	Vacuum					
static: dynamic: from to	☐ Yes ☐ No					
special requirements						
Design chemical seal - information on the instrum	nent					
PINTER instrument	other brand (please state brand, model and type)					
☐ MANOCOMB® ☐ INDUSWITCH ☐ PTM						
Gauge NG63 NG100 NG160						
model and type						
pressure / indicator range	differential pressure					
	☐ yes ☐ no					
Design chemical seal - information on chemical se	eal and mounting					
process connection (please state thread type and size and / or non	ninal size und nominal pressure)					
material (chemical seal body)	material (membrane und membrane coating)					
direct mounting cooling element	capillary					
☐ yes ☐ no ☐ yes ☐ no	yes, meter no					
adjustment temperature	fill fluide					
Standard +20°C others:	Standard others:					
other						
	annual demand single demand					
Quotation for pieces	project demand spare parts					

FURTHER PRODUCTS FROM PINTER











PRESSURE SWITCHES

are signal elements which are used for pressure measuring in pressure lines for gases, vapours, liquids or suspensions. The switch points are transformed into an electric or pneumatic output signal which is necessary for the control and regulation of processes, e.g. safety and alarm devices.

PRESSURE GAUGES

are mechanical pressure indicators. The actual process pressure acts on a measuring element and deforms it. The deformation is converted into a 270° rotating motion by the attached movement.

Due to the electricity-free function, pressure gauges even remain fully functional in total damage occurance.

PRESSURE GAUGES

are mechanical pressure indicators. The actual process pressure acts on a measuring element and deforms it. The deformation is converted into a 270° rotating motion by the attached movement.

Due to the electricity-free function, pressure gauges even remain fully functional in total damage occurance.

DIAPHRAGM SEALS

are mechanical process separating elements which are mounted on measuring instruments directly or via capillary; with diaphragm seals the measuring instrument is separated from the actual process to protect the instrument from hot, polluted, aggressive or chrystalizing media.

INDICATORS AND SIGNAL PROCESSORS

are interfaces between measuring instruments and the process control. Supply isolation amplifiers provide pressure transmitters with the required operating voltage. With graphics displays most diverse information can be visualized and archived among other things. For safety relevant functions PINTER offers proven and tested signal processors with SIL 2 classification.

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PINTER Mess- und Regeltechnik GmbH Kraichgaublick 17 Technologiepark Neckartal-Odenwald 74847 Obrigheim am Neckar

Fon: +49 (6262) 92670 - 0
Fax: +49 (6262) 92670 - 99
Email: info@pinter-gmbh.de
Internet: www.pinter-gmbh.com

Manging Directors: Dipl.-Kfm. (FH) Ingo Pinter

Registered: District Court of Mannheim, Germany HRB 335910

VAT-No.: DE 812 439 496

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PINTER Mess- und Regeltechnik GmbH Kraichgaublick 17 Technologiepark Neckartal-Odenwald 74847 Obrigheim, Germany

Phone +49-6262-92670-0
Fax +49-6262-92670-99
E-Mail info@pinter-gmbh.de
Internet www.pinter-gmbh.com