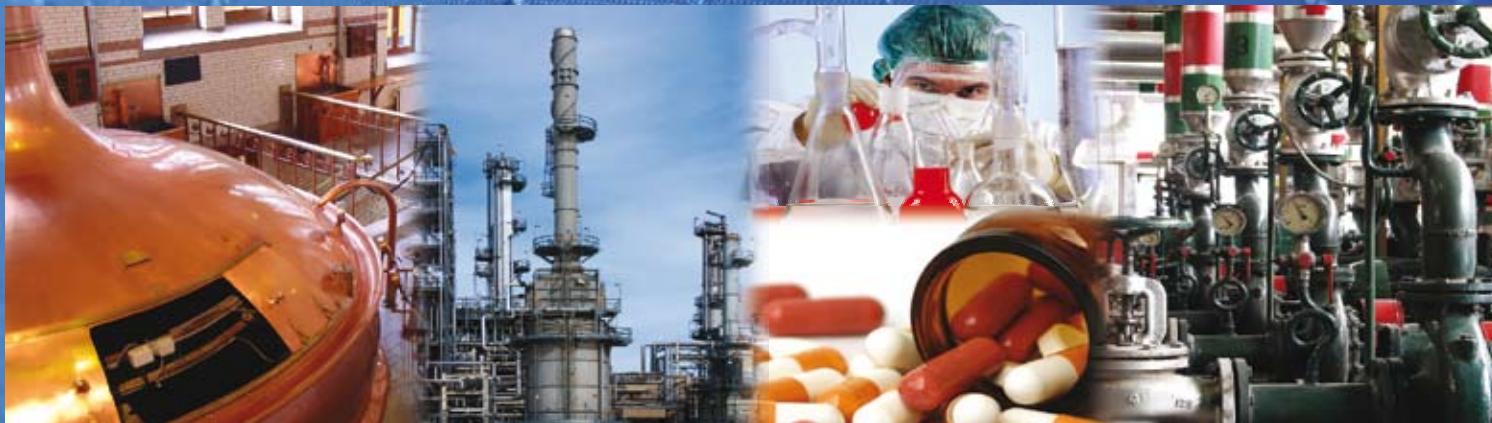


flow & process solutions





Potravinářský průmysl
Farmaceutický průmysl
Biotechnologie
Petrochemie
Chemický průmysl
Energetika
Úprava vody
Papírenství a zpracování celulózy
Plynárenský průmysl
Keramický průmysl
Zpracovatelský průmysl



Firma s tradicí od r. 1990 se při svém vzniku zaměřila na dodávky základních komponent, přístrojové a měřicí techniky a dodávky technologií pro farmaceutický a potravinářský průmysl. Cílem bylo zajistit kompletní dodavatelsko - inženýrské služby, včetně servisu. V roce 1998, který byl pro firmu velmi významným mezníkem, proběhla transformace společnosti do nynější formy. V dalších letech činnosti společnosti dochází k rozšíření portfolia a je navazována spolupráce s partnery v oblasti armatur, komponent, ventilů, procesní měřicí techniky a čerpadel.

Oblasti působnosti je potravinářský, farmaceutický průmysl, biotechnologie, chemický průmysl, petrochemie, úprava vody, papírenství a celulóza, energetika, keramický průmysl a zpracovatelský průmysl.

Firma REGOM INSTRUMENTS je díky širokému dodavatelskému portfoliu a bohatým zkušenostem schopna zajistit dodávky armatur, komponent, čerpadel, přístrojů a zařízení.

Cílem společnosti REGOM INSTRUMENTS je poskytování kvalitních služeb a spolehlivých dodávek pro co nejširší okruh zákazníků.

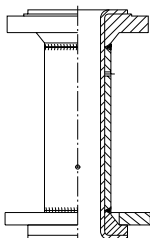
PTFE Lined Pipe Spool

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options								
	F x L	F x L	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.								
	PN 10	PN 10		PN 25	Fix or Loose Flanges	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
	Same construction as select series but only in fix length available: - 500 mm - 1000 mm - 1500 mm - 2000 mm - 3000 mm										
15		◆ ◆ ●	✓	✓	✓	✓	✓	✓	✓	✓	
20		◆ ◆ ●	✓	✓	✓						
25	◆ ●	◆ ◆ ●	✓	✓	✓						
32		◆ ◆ ●	✓	✓	✓						
40		◆ ◆ ●	✓	✓	✓						
50	◆ ●	◆ ◆ ●	✓	✓	✓						
65		◆ ◆ ●	✓	✓	✓						
80	◆ ●	◆ ◆ ●	✓	✓	✓						
100	◆ ⊗	◆ ◆ ⊗	✓	✓	✓						
125		◆ ◆ ⊗	✓	✓	✓						
150		◆ ◆ ⊗	✓	✓	✓						
200		◆ ◆ ⊗	✓	✓	✓						
250		◆ ◆ ◆ ⊗	✓	✓	✓						
300		◆ ◆ ◆ ⊗	✓	✓	✓						
350		◆ ◆ ◆ ⊗	✓	✓	✓						
400		◆ ◆ ◆ ⊗	✓	✓	✓						
450		◆ ◆ ◆ ⊗	✓	✓	✓						
500		◆ ◆ ◆ ○	✓	✓	✓						
600		◆ ◆ ◆ ○	✓	✓	✓						

◆ Best Price & Lead Time (1 - 2 Weeks)

● Full Vacuum at 230 °C

◆◆ Longer Lead Time (4 - 6 Weeks)

⊗ Reduced Vacuum Resistance at Elevated Temp.

◆◆◆ Price and Delivery Upon Request

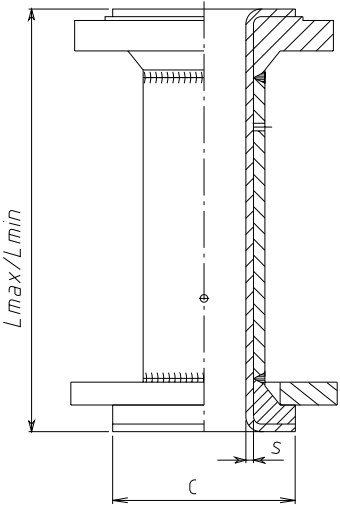
○ Non-Vacuum Rated

PTFE Lined Pipe Spool

Fabricated Steel

Dimensional Data per PN 10

DN	Min L (mm)	Max L (mm)	C (mm)	S ±10% (mm)	Pipe Weight (ca. kg/m)	2 Flanges Weight (ca. kg)
15	80	6000	45	2,5	1,2	1,5
20	85	5000	58	3	1,6	2
25	90	6000	68	3,5	2,5	2,5
32	95	6000	78	3	3,4	3,6
40	100	6000	88	4	4,5	4,2
50	105	6000	102	4	5,8	5,5
65	110	6000	122	3	7,1	6,6
80	120	6000	138	4	10	8,3
100	130	6000	158	4	14	9,9
125	140	6000	188	4,5	17,5	13,2
150	150	6000	212	7	23,5	16
200	175	6000	268	6,25	39	23
250	195	4000	320	8	55,5	31
300	210	3500	370	8	74	39
350	225	3000	430	9	85	52
400	250	2500	482	10	102	67
450	255	3000	532	7,5	130	85
500	260	2500	585	6,5	155	90
600	300	1000	685	4,5	204	116



Note:
- DN 15, DN 20 and DN 600 not acc. to DIN 2848

Part Number System

1	ROF	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Pipe Spool	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - Fixed/Fixed FL - Fixed/Loose LL - Loose/Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

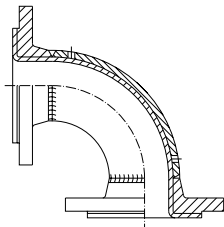
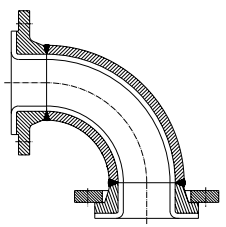
PTFE Lined 90 Degree Elbow

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options								
	F x F	F x L	Option selection may affect manufacturing lead time. Consult factory for price and delivery.								
	PN 10	PN 10									
			PN 25	Fix or Loose Flanges	Special Angle	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
15		◆ ◆ ●	✓	✓	✓	✓	✓	✓			
20		◆ ◆ ●	✓	✓	✓	✓	✓				
25	◆ ●	◆ ◆ ●	✓	✓	✓	✓	✓				
32		◆ ◆ ●	✓	✓	✓	✓	✓				
40	◆ ●	◆ ◆ ●	✓	✓	✓	✓	✓				
50	◆ ●	◆ ◆ ●	✓	✓	✓	✓	✓				
65		◆ ◆ ●	✓	✓	✓	✓	✓				
80	◆ ●	◆ ◆ ●	✓	✓	✓	✓	✓				
100	◆ ●	◆ ◆ ●	✓	✓	✓	✓	✓				
125		◆ ◆ ●	✓	✓	✓	✓	✓				
150	◆ ●	◆ ◆ ●	✓	✓	✓	✓	✓	✓	✓	✓	✓
200		◆ ◆ ●	✓	✓	✓	✓	✓				
250		◆ ◆ ◆ ●	✓	✓	✓	✓	✓				
300		◆ ◆ ◆ ●	✓	✓	✓	✓	✓				
350		◆ ◆ ◆ ⊗	✓	✓	✓	✓	✓				
400		◆ ◆ ◆ ⊗	✓	✓	✓	✓	✓				
450		◆ ◆ ◆ ○	✓	✓	✓	✓	✓				
500		◆ ◆ ◆ ○	✓	✓	✓	✓	✓				
600		◆ ◆ ◆ ○	✓	✓	✓	✓	✓				

◆ Best Price & Lead Time (1 - 2 Weeks)

● Full Vacuum at 230 °C

◆ ◆ Longer Lead Time (4 - 6 Weeks)

⊗ Reduced Vacuum Resistance at Elevated Temp.

◆ ◆ ◆ Price and Delivery Upon Request

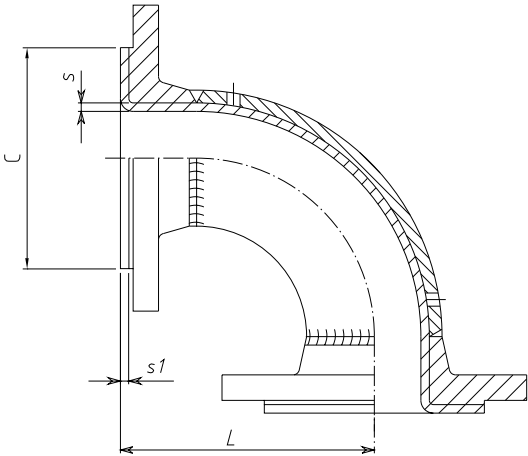
○ Non-Vacuum Rated

PTFE Lined 90 Degree Elbow

Fabricated Steel

Dimensional Data per PN 10

Size	L (mm)	C (mm)	S ±10%(mm)	Weight (ca. kg)
15	80	45	3	1,5
20	95	58	3,5	2,1
25	110	68	3,75	2,7
32	130	78	3,75	4
40	150	88	4,25	4,6
50	120	102	4,5	5,9
65	140	122	4,75	7,5
80	165	138	4,75	9,6
100	205	158	5,25	13,1
125	245	188	5,5	18,1
150	285	212	6,5	30
200	365	268	8,5	47
250	450	320	12,5	76
300	525	370	10,5	95
350	600	430	13,5	142
400	680	482	14	185
450	765	532	14	255
500	830	585	14	300
600	985	685	4,5	578



Note:
DN 600 3 piece housing
DN 15, 20 and 600 not acc to DIN 2848

Part Number System

1	B90	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	90 Deg. Elbow	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - Fixed/Fixed FL - Fixed/Loose LL - Loose/Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

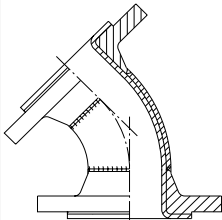
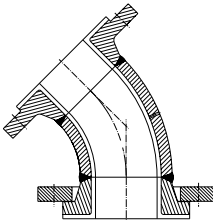
PTFE Lined 45 Degree Elbow

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options								
	F x F	F x L	Option selection may affect manufacturing lead time. Consult factory for price and delivery.								
	PN 10	PN 10									
			PN 25	Loose or Fix Flanges	Special Angle	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
15		◆◆●	✓	✓	✓	✓	✓				
20		◆◆●	✓	✓	✓	✓	✓				
25	◆●	◆◆●	✓	✓	✓	✓	✓				
32		◆◆●	✓	✓	✓	✓	✓				
40	◆●	◆◆●	✓	✓	✓	✓	✓				
50	◆●	◆◆●	✓	✓	✓	✓	✓				
65		◆◆●	✓	✓	✓	✓	✓				
80	◆●	◆◆●	✓	✓	✓	✓	✓				
100	◆●	◆◆●	✓	✓	✓	✓	✓	✓			
125		◆◆●	✓	✓	✓	✓	✓				
150	◆●	◆◆●	✓	✓	✓	✓	✓		✓		
200		◆◆●	✓	✓	✓	✓	✓			✓	
250		◆◆◆●	✓	✓	✓	✓	✓				
300		◆◆◆●	✓	✓	✓	✓	✓				
350		◆◆◆⊗	✓	✓	✓	✓	✓				
400		◆◆◆⊗	✓	✓	✓	✓	✓				
450		◆◆◆○	✓	✓	✓	✓	✓				
500		◆◆◆○	✓	✓	✓	✓	✓				
600		◆◆◆○	✓	✓	✓	✓	✓				

◆ Best Price & Lead Time (1 - 2 Weeks)

● Full Vacuum at 230 °C

◆◆ Longer Lead Time (4 - 6 Weeks)

⊗ Reduced Vacuum Resistance at Elevated Temp.

◆◆◆ Price and Delivery Upon Request

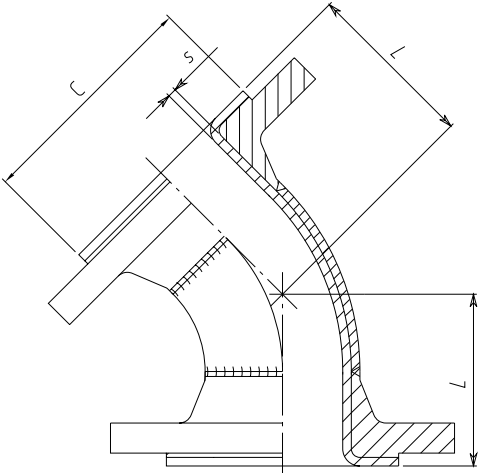
○ Non-Vacuum Rated

PTFE Lined 45 Degree Elbow

Fabricated Steel

Dimensional Data per PN 10

Size	L (mm)	C (mm)	S ±10% (mm)	Weight (ca. kg)
15	45	45	3,0	1,5
20	65	58	3,5	2,1
25	70	68	3,7	2,7
32	80	78	3,7	4,0
40	90	88	4,3	4,6
50	80	102	4,5	5,9
65	85	122	4,7	7,5
80	100	138	4,7	9,6
100	115	158	5,3	13,1
125	135	188	5,5	18,1
150	150	212	6,5	26
200	190	268	8,5	39
250	225	320	12,5	62
300	260	370	10,5	76
350	290	430	13,5	110
400	325	482	14	141
450	365	532	14	194
500	390	585	14	225
600	455	685	4,5	216



Note: DN 15, 20 and 600 not acc. to DIN 2848

Part Number System

1	B45	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	45 Deg. Elbow	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - Fixed/Fixed FL - Fixed/Loose LL - Loose/Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Equal Tee

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options									
	F x F x F	F x L x L	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.									
	PN 10	PN 10										
			PN 25	Loose Flanges on Select Ser.	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders	PFA lined	2-pc. construction
15		◆◆●	✓	✓	✓	✓					Standard	
20		◆◆●	✓	✓	✓	✓					Standard	
25	◆●	◆◆●	✓	✓	✓	✓					✓	
32		◆◆●	✓	✓	✓	✓					✓	
40	◆●	◆◆●	✓	✓	✓	✓					✓	
50	◆●	◆◆●	✓	✓	✓	✓					✓	
65		◆◆⊗	✓	✓	✓	✓					✓	
80	◆⊗	◆◆⊗	✓	✓	✓	✓					✓	
100	◆⊗	◆◆⊗	✓	✓	✓	✓					✓	
125		◆◆⊗	✓	✓	✓	✓						
150	◆⊗	◆◆⊗	✓	✓	✓	✓	✓	✓	✓	✓		
200		◆◆⊗	✓	✓	✓	✓						
250		◆◆◆⊗	✓	✓	✓	✓						
300		◆◆◆⊗	✓	✓	✓	✓						
350		◆◆◆⊗	✓	✓	✓	✓						
400		◆◆◆⊗	✓	✓	✓	✓						
450		◆◆◆○	✓	✓	✓	✓						Standard
500		◆◆◆○	✓	✓	✓	✓						
600		◆◆◆○	✓	✓	✓	✓						

◆ Best Price & Lead Time (1 - 2 Weeks)

● Full Vacuum at 230 °C

◆◆ Longer Lead Time (4 - 6 Weeks)

⊗ Reduced Vacuum Resistance at Elevated Temp.

◆◆◆ Price and Delivery Upon Request

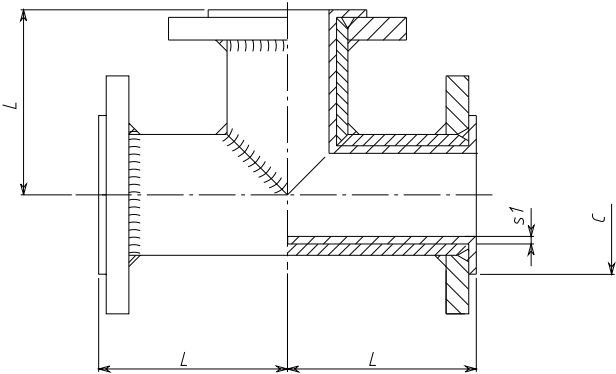
○ Non-Vacuum Rated

PTFE Lined Equal Tee

Fabricated Steel

Dimensional Data per PN 10

DN	L (mm)	C (mm)	S ±10% (mm)	Weight (ca. kg)
15	80	45	4	2,5
20	95	58	4	3,2
25	110	68	3,5	5,5
32	130	78	4,5	8
40	150	88	4,5	9,5
50	120	102	4,5	11,5
65	140	122	5	14,5
80	165	138	5	19,5
100	205	158	6	24
125	245	188	5,5	34
150	285	212	7	45
200	365	268	10	72
250	450	320	13	150
300	525	370	13	210
350	600	430	6,5	312
400	680	482	6,5	375
450	680	532	6,5	400
500	500	585	6,5	420
600	500	685	4,5	580



Note:
- DN 450 and 600 not acc. to DIN 2848
- DN 500 face to face dimensiones not acc. to DIN 2848

Part Number System

1	TEE	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Equal Tee	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 3 x Fixed BC - 1 x Fixed 2 x Loose LL - 3 x Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Reducing Tee

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 20 - 150



DN 1	DN 2	Value Series	Select Series	Options														
		F x F x F	F x F x F	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.														
		PN 10	PN 10			PN 25	Loose Flanges	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders	PFA-Lined				
20	15		◆ ◆ ●	✓	✓	✓	✓	Standard	✓	✓	✓	✓	Standard					
25	15		◆ ◆ ●	✓	✓	✓	✓											
40	15		◆ ◆ ●	✓	✓	✓	✓											
	25	◆ ●		✓	✓	✓	✓	✓						✓	✓			
50	15		◆ ◆ ●	✓	✓	✓	✓	St.										St.
	25	◆ ●		✓	✓	✓	✓											
	40	◆ ●		✓	✓	✓	✓											
80	25	◆ ⊗		✓	✓	✓	✓	✓						✓	✓	✓	✓	✓
	40	◆ ⊗		✓	✓	✓	✓											
	50	◆ ⊗		✓	✓	✓	✓											
100	25	◆ ⊗		✓	✓	✓	✓						✓					
	40	◆ ⊗		✓	✓	✓	✓											
	50	◆ ⊗		✓	✓	✓	✓											
	80		◆ ◆ ⊗	✓	✓	✓	✓											
150	25	◆ ⊗		✓	✓	✓	✓											
	40		◆ ◆ ⊗	✓	✓	✓	✓											
	50	◆ ⊗		✓	✓	✓	✓											
	80		◆ ◆ ⊗	✓	✓	✓	✓											
	100		◆ ◆ ⊗	✓	✓	✓	✓											

◆ Best Price & Lead Time (1 - 2 Weeks)

● Full Vacuum at 230 °C

◆◆ Longer Lead Time (4 - 6 Weeks)

⊗ Reduced Vacuum Resistance at Elevated Temp.

◆◆◆ Price and Delivery Upon Request

○ Non-Vacuum Rated

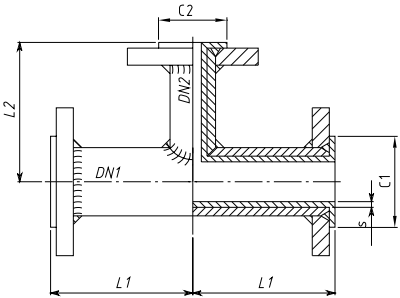
PTFE Lined Reducing Tee

Fabricated Steel

DN 20 - 150

Dimensional Data per PN 10

DN 1	DN 2	L1 (mm)	L2 (mm)	C1 (mm)	C2 (mm)	S1 ±10% (mm)	S2 ±10% (mm)	Weight (ca. kg)
20	15	95	80	58	45	4,0	4,0	3,1
25	15	110	80	68	45	4,0	4,0	3,7
40	15	150	80	88	45	4,0	4,0	5,3
	25		110	88	68	4,5	3,5	8
50	15	120	80	102	45	4,0	4,0	8,8
	25		110		68	4,5	4,5	8,9
	40		150		88			10,5
80	25	165	110	138	68	5	3,5	16
	40		150		88		4,5	17
	50		120		102		5	17,5
100	25	205	110	158	68	6	3,5	19
	40		150		88		4,5	21
	50		120		102			22
	80		165		138		5	24
150	25	285	165	212	68	7	3,5	28,5
	40		165		88		4,5	31
	50		165		102			32
	80		165		138		5	34
	100		205		158		6	35,4



Note:
- other dimensiones on request

Part Number System

1	RTE	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Red. Tee	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 3xFixed BC - 1xFixed 2x Loose LL - 3xLoose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Reducing Tee

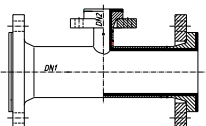
DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 200 - 300



DN 1	DN 2	Value Series	Select Series	Options							
		Value Series not Available in these Sizes	F x F x F	<i>Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.</i>							
			PN 10								
				PN 25	Loose Flanges	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
200	50		◆ ◆ ●	✓	✓	✓	✓				
	80		◆ ◆ ●	✓	✓	✓	✓				
	100		◆ ◆ ●	✓	✓	✓	✓				
	150		◆ ◆ ●	✓	✓	✓	✓				
250	50		◆ ◆ ◆ ●	✓	✓	✓	✓	✓	✓	✓	✓
	100		◆ ◆ ◆ ●	✓	✓	✓	✓				
	200		◆ ◆ ◆ ●	✓	✓	✓	✓				
300	50		◆ ◆ ◆ ●	✓	✓	✓	✓				
	100		◆ ◆ ◆ ●	✓	✓	✓	✓				
	200		◆ ◆ ◆ ●	✓	✓	✓	✓				

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

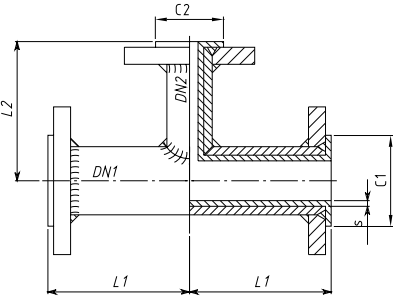
PTFE Lined Reducing Tee

Fabricated Steel

DN 200 - 300

Dimensional Data per PN 10

DN 1	DN 2	L1 (mm)	L2 (mm)	C1 (mm)	C2 (mm)	S1 ±10% (mm)	S2 ±10% (mm)	Weight (ca. kg)
200	50	365	205	268	102	10	4,5	56
	80				138		5	59
	100				158		6	63
	150				212		7	68
250	50	450	245	320	102	13	4,5	83
	100				158		6	89
	200				268		7	100
300	50	525	285	370	102	13	4,5	118
	100				158		6	125
	200				268		7	140



Note:
- other dimensiones on request

Part Number System

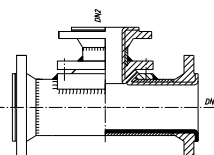
1	RTE	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Red. Tee	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 3xFixed BC - 1xFixed 2x Loose LL - 3xLoose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Reducing Tee

Flange DIN 2501; dim. L1 acc to DIN 2848
CE, PED Cat. III (>025)
TEFLON® by DuPont



DN 350 - 600

DN 1	DN 2	Value Series	Select Series	Options										
		Value Series not Available in These Sizes	F x F x F	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.										
			PN 10											
				PN 25	Loose Flanges	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders	2-pc Body Construction		
350	25		◆ ◆ ◆ ●	✓	✓	✓	✓	✓						Standard
	50		◆ ◆ ◆ ●	✓	✓	✓	✓							
	100		◆ ◆ ◆ ●	✓	✓	✓	✓							
	200		◆ ◆ ◆ ●	✓	✓	✓	✓							
400	25		◆ ◆ ◆ ●	✓	✓	✓	✓	✓						Standard
	50		◆ ◆ ◆ ●	✓	✓	✓	✓							
	100		◆ ◆ ◆ ●	✓	✓	✓	✓							
	300		◆ ◆ ◆ ●	✓	✓	✓	✓							
450	25		◆ ◆ ◆ ●	✓	✓	✓	✓							Standard
	50		◆ ◆ ◆ ●	✓	✓	✓	✓							
	100		◆ ◆ ◆ ●	✓	✓	✓	✓							
	300		◆ ◆ ◆ ●	✓	✓	✓	✓							
500	25		◆ ◆ ◆ ○	✓	✓	✓	✓							Standard
	50		◆ ◆ ◆ ○	✓	✓	✓	✓							
	100		◆ ◆ ◆ ○	✓	✓	✓	✓							
	300		◆ ◆ ◆ ○	✓	✓	✓	✓							
600	25		◆ ◆ ◆ ○	✓	✓	✓	✓							Standard
	50		◆ ◆ ◆ ○	✓	✓	✓	✓							
	100		◆ ◆ ◆ ○	✓	✓	✓	✓							
	300		◆ ◆ ◆ ○	✓	✓	✓	✓							

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

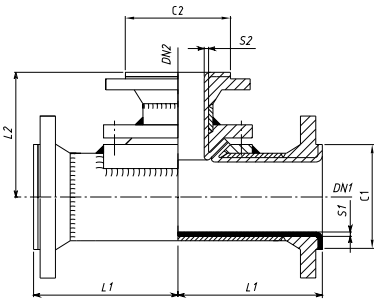
PTFE Lined Reducing Tee

Fabricated Steel

DN 350 - 600

Dimensional Data per PN 10

DN 1	DN 2	L1 (mm)	L2 (mm)	C1 (mm)	C2 (mm)	S1 ±10% (mm)	S2 ±10% (mm)	Weight (ca. kg)
350	25	600	375	430	68	6,5	3	170
	50		385		102		3	176
	100				158		3,5	187
	200		400		370		6	294
400	25	680	380	482	68	6,5	3	229
	50				102		3	234
	100		400		158		4,5	249
	300		525		370		6,5	362
450	25	680	400	532	68	6,5	3	302
	50				102		3	308
	100		420		158		4,5	324
	300		625		370		6,5	437
500	25	500		585	68	6,5	3	279
	50		450		102		3	285
	100				158		4,5	299
	300		575		370		6,5	412
600	25	500	480	685	68	4,5	3	363
	50				102		3	369
	100		500		158		4,5	383
	300		625		370		6,5	496



Note:
- other sizes on request

Part Number System

1	RTE	250		10	W	XX	FF	00XX
Type	Fitting	Diameter		Pressure	Liner	Resin Type	Flanges	Options
Finished	Red. Tee	015	125	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 3×Fixed BC - 1×Fixed 2× Loose LL - 3×Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel
		020	150					
		025	200					
		032	250					
		040	300					
		050	350					
		064	400					
		080	450					
		100	500					
			600					

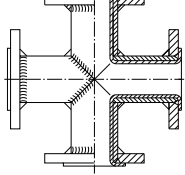
PTFE Lined Equal Cross

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options									
	Equal crosses not available in Value Series	F x F x F x F	<i>Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.</i>									
		PN 10										
			PN 25	Loose Flanges on Select Ser.	Stainless Steel Housing	Heavy Duty Liner	Conductive Liner	Special Paint	Earthing Studs	Vent Extenders	PFA lined	3 pc. body construction
15		◆◆●	✓	✓	✓						Standard	
20		◆◆●	✓	✓	✓						Standard	
25		◆◆●	✓	✓	✓						✓	
32		◆◆●	✓	✓	✓						✓	
40		◆◆●	✓	✓	✓						✓	
50		◆◆●	✓	✓	✓						✓	
65		◆◆⊗	✓	✓	✓						✓	
80		◆◆⊗	✓	✓	✓						✓	
100		◆◆⊗	✓	✓	✓						✓	
125		◆◆⊗	✓	✓	✓							
150		◆◆⊗	✓	✓	✓	✓	✓	✓	✓	✓		
200		◆◆⊗	✓	✓	✓							
250		◆◆◆⊗	✓	✓	✓							
300		◆◆◆⊗	✓	✓	✓							
350		◆◆◆⊗	✓	✓	✓							
400		◆◆◆⊗	✓	✓	✓							
450		◆◆◆○	✓	✓	✓							
500		◆◆◆○	✓	✓	✓							
600		◆◆◆○	✓	✓	✓							

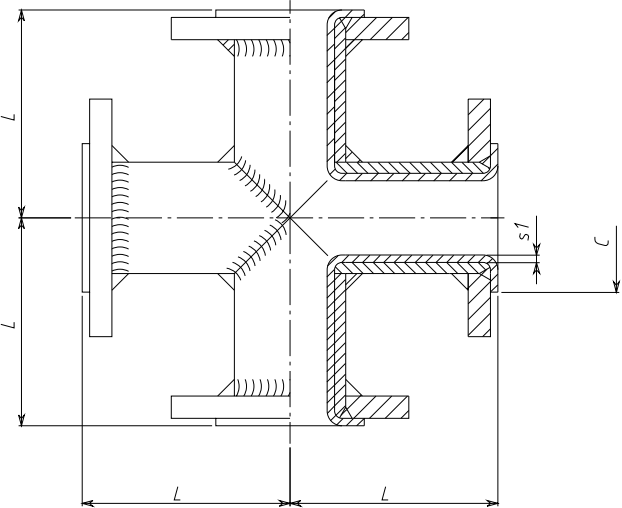
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Lined Equal Cross

Fabricated Steel

Dimensional Data per PN 10

DN	L (mm)	S ±10% (mm)	C (mm)	Weight (ca. kg)
15	80	4	45	2,5
20	95	4	58	3,2
25	110	3,5	68	7,3
32	130	4,5	78	10,7
40	150	4,5	88	12,7
50	120	4,5	102	15,3
65	140	5	122	19,3
80	165	5	138	26
100	205	6	158	32
125	245	5,5	188	45,3
150	285	7	212	60
200	365	10	268	96
250	450	13	320	146,7
300	525	13	370	213,3
350	600	6,5	430	385
400	680	6,5	482	485
450	680	6,5	532	530
500	500	6,5	585	560
600	500	4,5	685	740



Note:

- DN 450 and 600 not acc. to DIN 2848
- DN 500 face to face not acc to DIN 2848

Part Number System

1	KRE	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Equal Cross	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 4 x Fixed XX - 1 x Fixed 3 x Loose LL - 4 x Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Reducing Cross

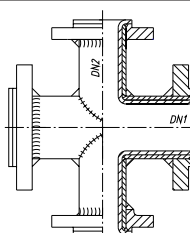
DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 20 - 100



DN 1	DN 2	Value Series	Select Series	Options											
		not available in Value Series	F x F x F x F	Option selection may affect manufacturing lead time. Consult factory for price and delivery.											
			PN 10												
				PN 25	Loose Flanges	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders	PFA-Lined			
20	15		◆ ◆ ●	✓	✓	✓	✓	Standard				Standard			
25	15		◆ ◆ ●	✓	✓	✓	✓								
40	15		◆ ◆ ●	✓	✓	✓	✓								
	25		◆ ◆ ●	✓	✓	✓	✓	✓				✓	✓	✓	✓
50	25		◆ ◆ ●	✓	✓	✓	✓	✓							✓
	40		◆ ◆ ●	✓	✓	✓	✓	✓							✓
80	25		◆ ◆ ⊘	✓	✓	✓	✓	✓				✓	✓	✓	✓
	40		◆ ◆ ⊘	✓	✓	✓	✓	✓				✓	✓	✓	✓
	50		◆ ◆ ⊘	✓	✓	✓	✓	✓				✓	✓	✓	✓
100	25		◆ ◆ ⊘	✓	✓	✓	✓	✓				✓	✓	✓	✓
	50		◆ ◆ ⊘	✓	✓	✓	✓	✓				✓	✓	✓	✓
	80		◆ ◆ ⊘	✓	✓	✓	✓	✓				✓	✓	✓	✓

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

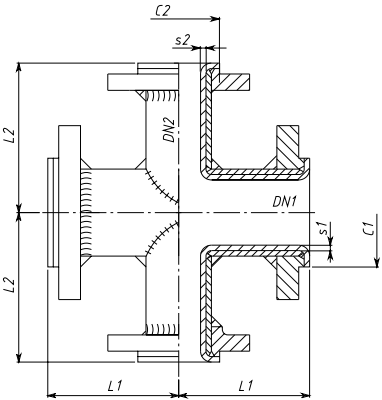
PTFE Lined Reducing Cross

Fabricated Steel

DN 20 - 100

Dimensional Data per PN 10

DN 1	DN 2	L1 (mm)	L2 (mm)	C1 (mm)	C2 (mm)	S1 ±10% (mm)	S2 ±10% (mm)	Weight (ca. kg)
20	15	95	80	55	45	3,5	3	3,5
25	15	110	80	68	45	4,0	3,0	4,8
	20	110	95		55		3,5	5,0
40	15	150	80	88	45	4,0	3,0	8,3
	25		110		68	4,5	4,5	11
50	25	120	110	102	68	4,5	3,5	12
	40		150		88	4,5	4,5	14
80	25	165	110	138	68	5,0	3,5	21
	40		150		88		4,5	23
	50		120		102		4,5	24
100	25	205	110	158	68	6,0	3,5	25
	50		120		102		4,5	30
	80		165		138		5,0	32



Note:
- other dimensiones on request

Part Number System

1	RKR	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Red. Cross	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 4 x Fixed XX - 1 x Fixed 3 x Loose LL - 4 x Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Reducing Cross

Flange DIN 2501; dim. L1 acc to DIN 2848
CE, PED Cat. III (>025)
TEFLON® by DuPont

DN 150 - 600



DN 1	DN 2	Value Series	Select Series	Options									
		not available in Value Series	F x F x F x F	Option selection may affect manufacturing lead time. Consult factory for price and delivery.									
			PN 10		PN 25	Loose Flanges	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders	3-pc Body Construction
150	100		◆ ◆ ●	✓	✓	✓	✓	✓	✓	✓	✓	Standard	
200	150		◆ ◆ ●	✓	✓	✓	✓						
250	150		◆ ◆ ◆ ●	✓	✓	✓	✓						
	200		◆ ◆ ◆ ●	✓	✓	✓	✓						
300	200		◆ ◆ ◆ ●	✓	✓	✓	✓						
	250		◆ ◆ ◆ ●	✓	✓	✓	✓						
350	200		◆ ◆ ◆ ●	✓	✓	✓	✓						
	300		◆ ◆ ◆ ●	✓	✓	✓	✓						
400	250		◆ ◆ ◆ ●	✓	✓	✓	✓						
	300		◆ ◆ ◆ ●	✓	✓	✓	✓						
450	300		◆ ◆ ◆ ●	✓	✓	✓	✓						
	400		◆ ◆ ◆ ●	✓	✓	✓	✓						
500	300		◆ ◆ ◆ ◆ ○	✓	✓	✓	✓						
	400		◆ ◆ ◆ ◆ ○	✓	✓	✓	✓						
600	400		◆ ◆ ◆ ◆ ○	✓	✓	✓	✓						
	500		◆ ◆ ◆ ◆ ○	✓	✓	✓	✓						

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

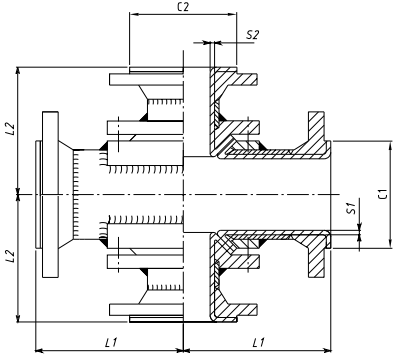
PTFE Lined Reducing Cross

Fabricated Steel

DN 150 - 600

Dimensional Data per PN 10

DN 1	DN 2	L1 (mm)	L2 (mm)	C1 (mm)	C2 (mm)	S1 ±10% (mm)	S2 ±10% (mm)	Weight (ca. kg)
150	100	285	205	212	158	6,0	4,5	48
200	150	365	285	268	212	6,0	5,0	91
250	150	450	285	320	212	5,2	5,0	183
	200		365		268		6,0	188
300	200	525	365	370	268	6,5	6,5	273
	250		450		320		6,5	280
350	200	600	400	430	268	6,5	6	360
	300		525		370		6,5	375
400	250	680	450	482	320	6,5	6,5	453
	300		525		370		6,5	461
450	300	680	550	532	370	6,5	6,5	505
	400		680		482		6,5	520
500	300	500	575	585	370	6,5	6,5	515
	400		680		482		6,5	535
600	400	500	700	685	585	4,5	6,5	698
	500		700		585		6,5	720



Note:
- other sizes on request

Part Number System

1	RKR	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Red. Cross	015 125 020 150 025 200 032 250 040 300 050 350 064 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 4 x Fixed XX - 1 x Fixed 3 x Loose LL - 4 x Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PFA Lined Instrument Tee

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 25 - 80



DN 1	DN 2	Value Series	Select Series	Options					
		PN 10	PN 10	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.					
				PN 25	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs
25	15		◆◆●	✓	✓	✓			
	25	◆●		✓	✓	✓			
40	15		◆◆●	✓	✓	✓			
	25	◆●		✓	✓	✓			
50	15		◆◆●	✓	✓	✓			
	25	◆●		✓	✓	✓			
	40		◆◆●	✓	✓	✓			
	50		◆◆●	✓	✓	✓	✓	✓	✓
80	15		◆◆●	✓	✓	✓			
	25	◆●		✓	✓	✓			
	40		◆◆●	✓	✓	✓			
	50		◆◆●	✓	✓	✓			

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

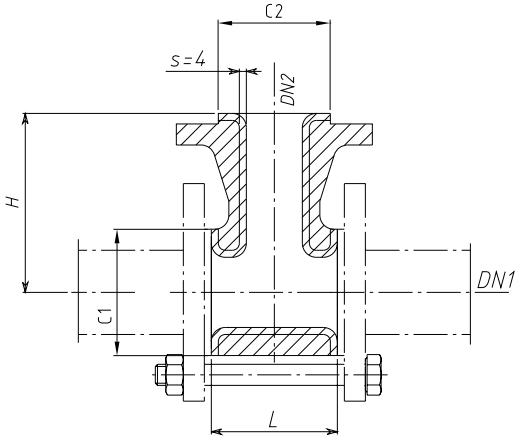
PFA Lined Instrument Tee

Fabricated Steel

DN 25 - 80

Dimensional Data per PN 10

Major size	Minor Size	L (mm)	H (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Weight (ca. kg)
25	15	50	90	60	43	4	1,9
	25				60		2,2
40	15	50	110	75	43	4	2,4
	25				60		2,8
50	15	50	115	92	43	4	3,2
	25				60		3,6
	40	75			75		6,2
	50	90			92		8,1
80	15	50	135	130	43	4	4,3
	25				60		4,7
	40	75			75		8,3
	50	90			92		12,6



Part Number System

1	MST	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Instr. Tee	Consult Factory	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PFA Lined Instrument Tee

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 100 - 250



DN 1	DN 2	Value Series	Select Series	Options					
		PN 10	PN 10	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.					
				PN 25	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs
100	25	◆ ●		✓	✓	✓			
	40		◆ ◆ ●	✓	✓	✓			
	50		◆ ◆ ●	✓	✓	✓			
150	25	◆ ●		✓	✓	✓			
	40		◆ ◆ ●	✓	✓	✓	✓	✓	✓
	50		◆ ◆ ●	✓	✓	✓			
200	25		◆ ◆ ●	✓	✓	✓			
	40		◆ ◆ ●	✓	✓	✓			
	50		◆ ◆ ●	✓	✓	✓			
250	25		◆ ◆ ◆ ●	✓	✓	✓			
	40		◆ ◆ ◆ ●	✓	✓	✓			
	50		◆ ◆ ◆ ●	✓	✓	✓			

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

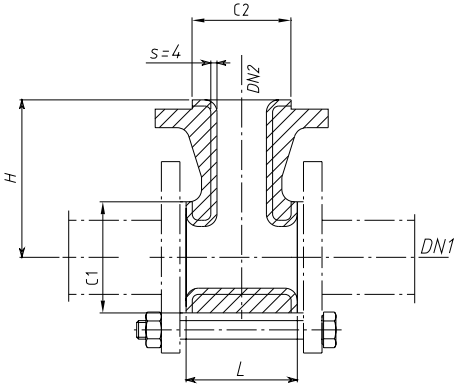
PFA Lined Instrument Tee

Fabricated Steel

DN 100 - 250

Dimensional Data per PN 10

DN 1	DN 2	L (mm)	H (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Weight (ca. kg)
100	15	50	150	158	43	4	5,5
	25				60		5,9
	40	75			75		8,9
	50	90			92		16
150	25	50	180	212	60	4	8,2
	40	75			75		14,7
	50	90			92		21,8
200	25	50	210	268	60	4	10,5
	40	75			75		17,8
	50	90			92		23,4
250	25	50	240	320	60	4	13,7
	40	75			75		23,2
	50	90			92		25,9



Part Number System

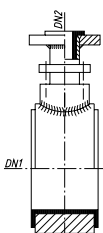
1	MST	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Instr. Tee	Consult Factory	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Instrument Tee

flanges acc. to DIN 2501, PN 10
CE, PED Cat. III (>025)
TEFLON® by DuPont

DN 300 - 600



DN 1	DN 2	Value Series	Select Series	Options							
		Value Series Not Available in These Sizes	PN 10	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.							
				PN 25	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders	2-Pc Body Construction
300	25		◆ ◆ ◆ ●	✓	✓	✓					
	40		◆ ◆ ◆ ●	✓	✓	✓					
	50		◆ ◆ ◆ ●	✓	✓	✓					
350	25		◆ ◆ ◆ ●	✓	✓	✓					
	40		◆ ◆ ◆ ●	✓	✓	✓					
	50		◆ ◆ ◆ ●	✓	✓	✓					
400	25		◆ ◆ ◆ ●	✓	✓	✓					
	40		◆ ◆ ◆ ●	✓	✓	✓					
	50		◆ ◆ ◆ ●	✓	✓	✓					
450	25		◆ ◆ ◆ ●	✓	✓	✓	✓	✓	✓	✓	
	40		◆ ◆ ◆ ●	✓	✓	✓					
	50		◆ ◆ ◆ ●	✓	✓	✓					
500	25		◆ ◆ ◆ ●	✓	✓	✓					
	40		◆ ◆ ◆ ●	✓	✓	✓					
	50		◆ ◆ ◆ ●	✓	✓	✓					
600	25		◆ ◆ ◆ ○	✓	✓	✓					
	40		◆ ◆ ◆ ○	✓	✓	✓					
	50		◆ ◆ ◆ ○	✓	✓	✓					

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

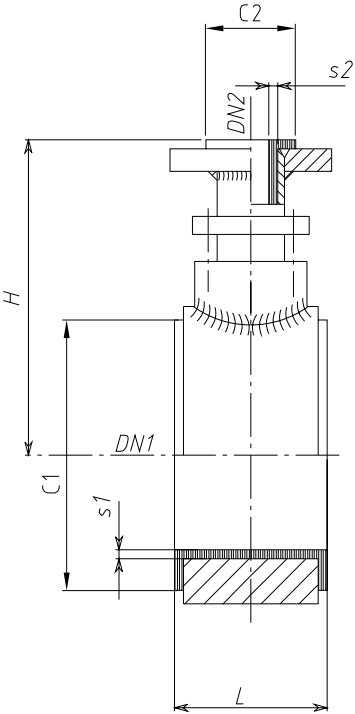
PTFE Lined Instrument Tee

Fabricated Steel

DN 300 - 600

Dimensional Data per PN 10

DN 1	DN 2	L (mm)	H (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Weight (ca. kg)
300	25	90	340	370	68	6,5 / 3	43
	40	110			88		55,5
	50	120			102		62,1
350	25	90	375	430	68	6,5 / 3	53,1
	40	110			88		66,5
	50	120			102		73,7
400	25	90	390	482	68	6,5 / 3	59,1
	40	110			88		74,5
	50	120			102		83,7
450	25	90	425	532	68	6,5 / 3	68,5
	40	110			88		90,5
	50	120			102		93,7
500	25	90	450	585	68	6,5 / 3	72,1
	40	110			88		90,5
	50	120			102		100,7
600	25	90	510	685	68	4,5 / 3	79,1
	40	110			88		94,5
	50	120			102		107,7



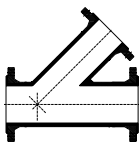
Part Number System

1	MST	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Instr. Tee	Consult Factory	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Equal Lateral Tee

CE, PED Cat. III (>025)
TEFLON® by DuPont



DN	Value Series	Select Series	Options						
	not available in Value Series	F x F x F	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.						
		PN 10							
			PN 25	Loose Flanges on Select Ser.	Stainless Steel Housing	Conductive Liner	Special Paint	Earthing Studs	Vent Extenders
025		◆ ◆ ●	✓	✓	✓	✓	✓	✓	✓
032		◆ ◆ ●	✓	✓	✓	✓			
040		◆ ◆ ●	✓	✓	✓	✓			
050		◆ ◆ ●	✓	✓	✓	✓			
065		◆ ◆ ⊗	✓	✓	✓	✓			
080		◆ ◆ ⊗	✓	✓	✓	✓			
100		◆ ◆ ⊗	✓	✓	✓	✓			
125		◆ ◆ ⊗	✓	✓	✓	✓			
150		◆ ◆ ⊗	✓	✓	✓	✓			

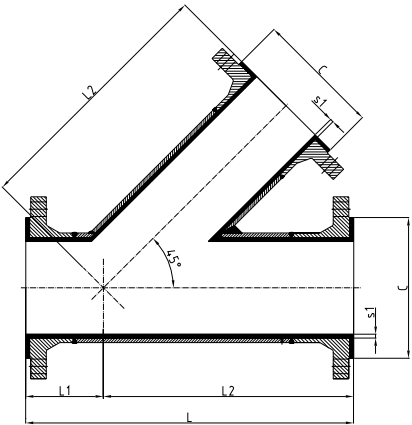
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Lined Equal Lateral Tee

Fabricated Steel

Dimensional Data per PN 10

DN	L (mm)	L1 (mm)	L2 (mm)	C (mm)	S ±10% (mm)	Weight (ca. kg)
25	290	90	200	68	3,5	5,2
32	315	90	225	78	4,5	5,2
40	345	100	245	88	4,5	8,1
50	370	105	265	102	4,5	11,4
65	400	110	290	122	5	18
80	430	120	310	138	5	24
100	470	130	340	158	6	44
125	520	140	380	188	5,5	53
150	575	150	425	212	7	65,9



Part Number System

1	LTE	100	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Lateral Tee	025 032 040 050 065 080 100 125 150	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - 3 x Fixed BC - 1 x Fixed 2 x Loose LL - 3 x Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Reducing Flange

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 25 - 150



DN 1	DN 2	Value Series	Select Series	Options						
		PN 10	PN 10	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.						
				PN 25	Stainless Steel Housing	Eccentric	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs
25	15		◆◆●	✓	✓	✓	✓			
	20	◆●		✓	✓	✓	✓			
40	20		◆◆●	✓	✓		✓			
	25	◆●		✓	✓	✓	✓			
50	20		◆◆●	✓	✓		✓			
	25	◆●		✓	✓	✓	✓			
	40	◆●		✓	✓	✓	✓			
80	25	◆●		✓	✓	✓	✓			
	40		◆◆●	✓	✓	✓	✓	✓	✓	✓
	50	◆●		✓	✓	✓	✓			
100	25	◆●		✓	✓	✓	✓			
	40		◆◆●	✓	✓		✓			
	50	◆●		✓	✓	✓	✓			
	80	◆●		✓	✓	✓	✓			
150	50	◆●		✓	✓	✓	✓			
	80	◆●		✓	✓	✓	✓			
	100	◆●		✓	✓	✓	✓			

◆ Best Price & Lead Time (1 - 2 Weeks)

● Full Vacuum at 230 °C

◆◆ Longer Lead Time (4 - 6 Weeks)

⊗ Reduced Vacuum Resistance at Elevated Temp.

◆◆◆ Price and Delivery Upon Request

○ Non-Vacuum Rated

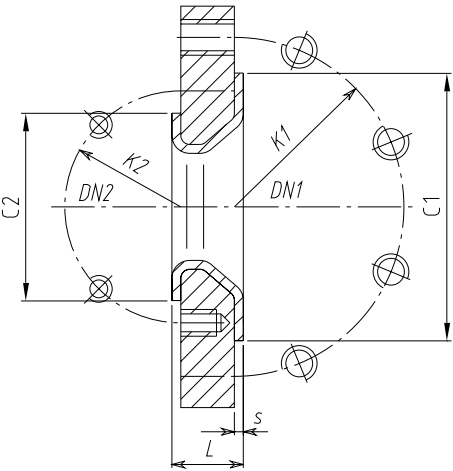
PTFE Lined Reducing Flange

Fabricated Steel

DN 25 - 150

Dimensional Data per PN 10

Major Size	Minor Size	L (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Type	Weight (ca. kg)
25	15	35	68	45	3,0	C	2,5
	20			58	3,5		2,4
40	20	35	88	58	4,0	C	4,0
	25			68			4,1
50	20	35	102	58	4,0	B	5,0
	25			68		C	4,9
	40			88			5,1
80	25	35	138	68	4,0 / 3,5	A	6,8
	40			88	4,0	B	6,6
	50			102			6,4
100	25	45	158	68	4,5 / 3,5	A	12
	40			88	4,5 / 4,0	B	12
	50			102			12
	80			138		C	10
150	50	45	212	102	5,0 / 4,0	A	19
	80			138			18
	100			158	5,0 / 4,5	B	17



All major size bolt holes straddle the natural centerline.
A - Minor size bolt holes straddle the natural centerline.
B - Minor size bolt holes straddle the centerline; Major size bolt holes with thread
C - Minor size bolt holes are on the natural centerline; Major size bolt holes with thread
other dimensions on request

Part Number System

1	RFK	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Reducing Flange	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0070 - Stainless Steel

PTFE Lined Reducing Flange

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 200 - 350



DN 1	DN 2	Value Series	Select Series	Options						
		Value Series not available in this sizes	PN 10	<i>Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.</i>						
				PN 25	Stainless Steel Housing	Eccentric	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs
200	50		◆◆●	✓	✓	✓	✓			
	80		◆◆●	✓	✓	✓	✓			
	100		◆◆●	✓	✓		✓			
	150		◆◆●	✓	✓		✓			
250	50		◆◆●	✓	✓		✓			
	100		◆◆●	✓	✓		✓			
	150		◆◆●	✓	✓		✓			
	200		◆◆●	✓	✓		✓	✓	✓	✓
300	50		◆◆●	✓	✓		✓			
	100		◆◆●	✓	✓		✓			
	150		◆◆●	✓	✓		✓			
	200		◆◆●	✓	✓		✓			
350	100		◆◆●	✓	✓		✓			
	200		◆◆●	✓	✓		✓			

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

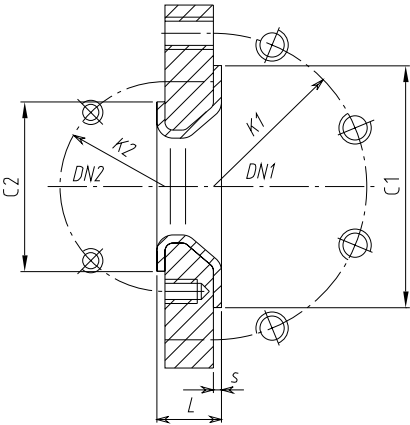
PTFE Lined Reducing Flange

Fabricated Steel

DN 200 - 350

Dimensional Data per PN 10

Major size	Minor Size	L (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Type	Weight (ca. kg)
200	50	45	268	102	5,0 / 4,0	A	28
	80			138			27
	100			158	5,0 / 4,5	B	25
	150			212	5,0		23
250	50	45	320	102	6,0 / 4,0	A	28
	100			158			22
	150			212	5,0	B	19
	200			268			16
300	50	50	370	102	6,0 / 4,0	A	44
	100			158			36
	150			212	6,0 / 4,0		31
	200			268	5,5		28
350	100	50	430	158	6,0 / 4,0	A	47
	200			268			38



All major size bolt holes straddle the natural centerline.
A - Minor size bolt holes straddle the natural centerline.
B - Minor size bolt holes straddle the centerline; Major size bolt holes with thread
C - Minor size bolt holes are on the natural centerline; Major size bolt holes with thread

Note:
- DN 250 and up have cylindrical openings
- other sizes on request

Part Number System

1	RFK	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Reducing Flange	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00 Red. Flange	00XX - Standard 0052 - Earthing Stud 0070 - Stainless Steel

PTFE Lined Reducing Flange

DIN 2848 / 2874
CE, PED Cat. III (>025)
TEFLON® by DuPont

DN 400 - 600



DN 1	DN 2	Value Series	Select Series	Options						
		Value Series not available in these sizes	PN 10	<i>Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.</i>						
				PN 25	Stainless Steel Housing	Eccentric	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs
400	100		◆◆◆●	✓	✓		✓			
	200		◆◆◆●	✓	✓		✓			
	300		◆◆◆●	✓	✓		✓			
450	100		◆◆◆●	✓	✓		✓			
	200		◆◆◆●	✓	✓		✓			
	300		◆◆◆●	✓	✓		✓			
500	200		◆◆◆●	✓	✓		✓	✓	✓	✓
	300		◆◆◆●	✓	✓		✓			
	400		◆◆◆●	✓	✓		✓			
600	300		◆◆◆●	✓	✓		✓			
	400		◆◆◆●	✓	✓		✓			
	500		◆◆◆●	✓	✓		✓			

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

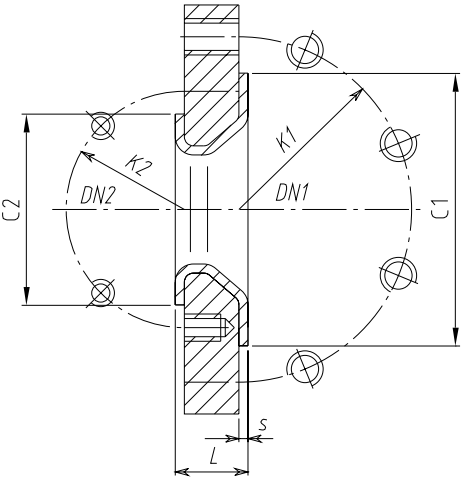
PTFE Lined Reducing Flange

Fabricated Steel

DN 400 - 600

Dimensional Data per PN 10

Major size	Minor Size	L (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Type	Weight (ca. kg)
400	100	50	482	158	6,0 / 4,0	A	68
	200			268			60
	300			370	6,0		49
450	100	50	532	158	6,0 / 4,0	A	77
	200			268			70
	300			370			58
500	200	50	585	268	6,0 / 4,0	A	86
	300			370			77
	400			482			62
600	300	50	685	370	6,0 / 4,0	A	121
	400			482			93
	500			585			78



All major size bolt holes straddle the natural centerline.
A - Minor size bolt holes straddle the natural centerline.
B - Minor size bolt holes straddle the centerline; Major size bolt holes with thread
C - Minor size bolt holes are on the natural centerline; Major size bolt holes with thread

Note:
- DN 250 and up have cylindrical openings
- DN 600 not acc. to DIN 2848
- other sizes on request

Part Number System

1	RFK	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Reducing Flange	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0070 - Stainless Steel

PTFE Lined Concentric Reducer

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 25 - 150



Major Size	Minor Size	Value Series	Select Series	Options							
		F x F	F x F	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.							
		PN 10	PN 10								
				PN 25	Loose Flanges on Select Ser.	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
25	15		◆ ◆ ●	✓	✓	✓	✓				
	20		◆ ◆ ●	✓	✓	✓	✓				
40	25		◆ ◆ ●	✓	✓	✓	✓				
50	25	◆	●	✓	✓	✓	✓				
	40	◆	●	✓	✓	✓	✓				
80	25	◆	●	✓	✓	✓	✓				
	40	◆	●	✓	✓	✓	✓				
	50	◆	●	✓	✓	✓	✓	✓	✓	✓	✓
100	25		◆ ◆ ⊗	✓	✓	✓	✓				
	40		◆ ◆ ⊗	✓	✓	✓	✓				
	50		◆ ◆ ⊗	✓	✓	✓	✓				
	80		◆ ◆ ⊗	✓	✓	✓	✓				
150	50		◆ ◆ ⊗	✓	✓	✓	✓				
	80		◆ ◆ ⊗	✓	✓	✓	✓				
	100		◆ ◆ ⊗	✓	✓	✓	✓				

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

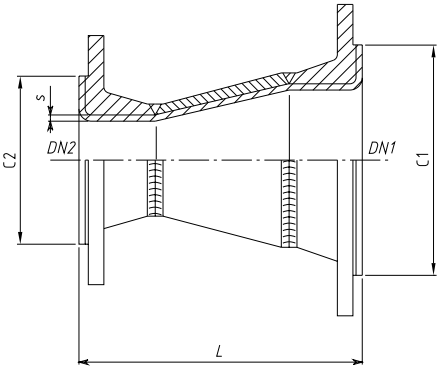
PTFE Lined Concentric Reducer

Fabricated Steel

DN 25 - 150

Dimensional Data per PN 10

Major size	Minor Size	L1 (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Weight (ca. kg)
25	15	125	68	45	3,0	2,4
	20		68	58		2,3
40	25	145	88	68	3,0	3,3
50	25	160	102	68	4,0 / 3,0	4,1
	40	165	102	88	4,0	4,8
80	25	180	138	68	4,0 / 3,0	6,7
	40	185	138	88		6,3
	50	190	138	102	4,0	6,9
100	25	200	158	68	4,5 / 3,0	10,2
	40		158	88		9,4
	50		158	102	4,5 / 4,0	9,9
	80	205	158	138		12,3
150	50	250	212	102	5,0 / 4,0	20
	80		212	138		17,4
	100		212	158	5,0 / 4,5	18,3



Note:
- other sizes on request

Part Number System

1	RSK	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Conc. Reducer	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - Fixed/Fixed FL - Fixed/Loose LL - Loose/Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Concentric Reducer

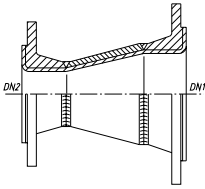
DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont

DN 200 - 600



Major Size	Minor Size	Value Series	Select Series	Options							
		Value Series not available in this sizes	F x F	<i>Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.</i>							
			PN 10								
				PN 25	Loose Flanges	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
200	100		◆ ◆ ●	✓	✓	✓	✓				
	150		◆ ◆ ●	✓	✓	✓	✓				
250	150		◆ ◆ ◆ ●	✓	✓	✓	✓				
	200		◆ ◆ ◆ ●	✓	✓	✓	✓				
300	200		◆ ◆ ◆ ○	✓	✓	✓	✓				
	250		◆ ◆ ◆ ○	✓	✓	✓	✓				
350	250		◆ ◆ ◆ ○	✓	✓	✓	✓				
	300		◆ ◆ ◆ ○	✓	✓	✓	✓	✓	✓	✓	✓
400	300		◆ ◆ ◆ ○	✓	✓	✓	✓				
	350		◆ ◆ ◆ ○	✓	✓	✓	✓				
450	350		◆ ◆ ◆ ○	✓	✓	✓	✓				
	400		◆ ◆ ◆ ○	✓	✓	✓	✓				
500	350		◆ ◆ ◆ ○	✓	✓	✓	✓				
	400		◆ ◆ ◆ ○	✓	✓	✓	✓				
600	450		◆ ◆ ◆ ○	✓	✓	✓	✓				
	500		◆ ◆ ◆ ○	✓	✓	✓	✓				

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

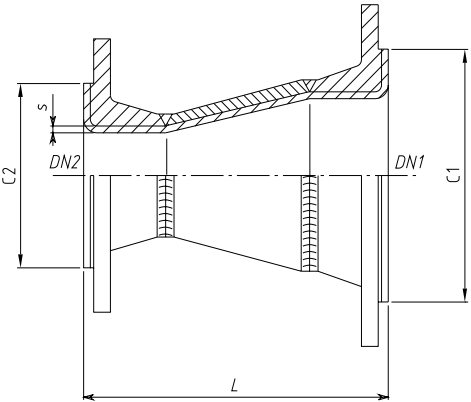
PTFE Lined Concentric Reducer

Fabricated Steel

DN 200 - 600

Dimensional Data per PN 10

DN 1	DN 2	L1 (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Weight (ca. kg)
200	100	270	268	158	6,0 / 4,5	22,1
	150		268	212	6,0 / 5,0	25,2
250	150	305	320	212	6,5 / 5,0	37,8
	200	310	320	268	6,5 / 6,0	44,8
300	200	335	370	268	6,5	48
	250	340	370	320		52,6
350	250	465	430	320	6,5	73,6
	300		430	370		80
400	300	495	482	370	6,5	105
	350		482	430		115
450	350	495	532	430	6,5	148
	400		532	482		157
500	350	650	585	430	6,5	198
	400		585	482		210
600	450	750	685	532	4,5	282
	500		685	585		291



Note:

- DN 450 and 600 not acc. to DIN 2848
- other sizes on request

Part Number System

1	RSK	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Conc. Reducer	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - Fixed/Fixed FL - Fixed/Loose LL - Loose/Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

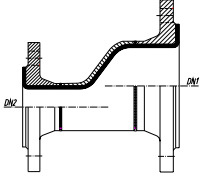
PTFE Lined Eccentric Reducer

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



Major Size	Minor Size	Value Series	Select Series	Options							
		eccentric reducers not available in value series	F x F	<i>Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.</i>							
			PN 10								
				PN 25	Loose Flanges on Select Ser.	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
32	25		◆ ◆ ●	✓	✓	✓	✓				
40	25		◆ ◆ ●	✓	✓	✓	✓				
50	25		◆ ◆ ●	✓	✓	✓	✓				
	40		◆ ◆ ●	✓	✓	✓	✓				
80	25		◆ ◆ ●	✓	✓	✓	✓				
	40		◆ ◆ ●	✓	✓	✓	✓				
	50		◆ ◆ ●	✓	✓	✓	✓				
100	40		◆ ◆ ⊗	✓	✓	✓	✓	✓	✓	✓	✓
	50		◆ ◆ ⊗	✓	✓	✓	✓				
	80		◆ ◆ ⊗	✓	✓	✓	✓				
150	80		◆ ◆ ⊗	✓	✓	✓	✓				
	100		◆ ◆ ⊗	✓	✓	✓	✓				
200	100		◆ ◆ ⊗	✓	✓	✓	✓				
	150		◆ ◆ ⊗	✓	✓	✓	✓				
250	150		◆ ◆ ⊗	✓	✓	✓	✓				
	200		◆ ◆ ⊗	✓	✓	✓	✓				
300	200		◆ ◆ ⊗	✓	✓	✓	✓				

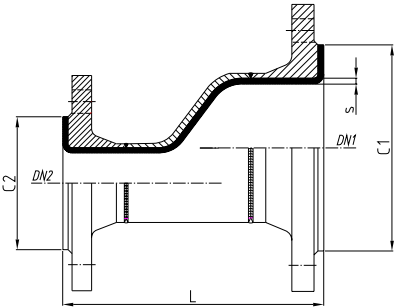
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Lined Eccentric Reducer

Fabricated Steel

Dimensional Data per PN 10

DN 1	DN 2	L1 (mm)	C1 (mm)	C2 (mm)	S ±10% (mm)	Weight (ca. kg)
32	25	130	78	68	3	3
40	25	145	88	68	4,0 / 3,0	3,3
50	25	160	102	68	3	4,1
	40	165	102	88	3	4,8
80	25	180	138	68	5,0 / 4,0	6,7
	40	185	138	88	3	6,3
	50	190	138	102	4	6,9
100	40	200	158	88	5,5 / 4,5	9,4
	50	200	158	102	4,5 / 3	9,9
	80	205	158	138	4,5 / 4,0	12,3
150	80	250	212	138	7 / 6	17,4
	100	250	212	158	5 / 4,5	18,3
200	100	270	268	158	6 / 4,5	22,1
	150	270	268	212	6 / 5	25,2
250	150	305	320	212	6,5 / 5	38
	200	310	320	268	6,5 / 6	45
300	200	335	370	268	6,5	48



Part Number System

1	RSE	250	10	W	XX	FF	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Ecc. Reducer	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FF - Fixed/Fixed FL - Fixed/Loose LL - Loose/Loose	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Solid Spacer

DIN 2848

TEFLON® by DuPont



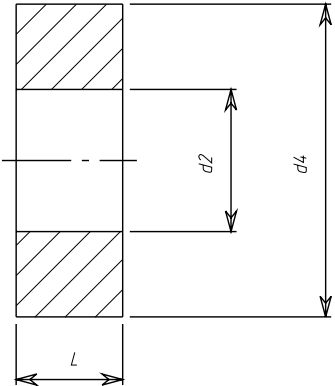
DN	Value Series	Select Series	Option
	PN 10	PN 10	
			PN 25
15		◆ ◆ ●	✓
20		◆ ◆ ●	
25	◆ ●		
32		◆ ◆ ●	
40	◆ ●		
50	◆ ●		
65		◆ ◆ ●	
80	◆ ●		
100	◆ ●		
125		◆ ◆ ●	
150	◆ ●		
200		◆ ◆ ●	
250		◆ ◆ ●	
300		◆ ◆ ●	
350		◆ ◆ ●	
400		◆ ◆ ●	
450		◆ ◆ ●	
500		◆ ◆ ●	
600		◆ ◆ ●	

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Solid Spacer

Dimensional Data per PN 10

DN	L max (mm)	d2 (mm)	d4 (mm)	Weight (ca. kg)
15	20	14	45	0,1
20	20	16	58	0,1
25	20	22	68	0,2
32	20	31	78	0,25
40	20	37	88	0,3
50	20	48	102	0,4
65	25	64	122	0,5
80	25	76	138	0,6
100	25	101	158	0,75
125	30	125	188	1,1
150	30	153	212	1,4
200	30	201	268	2
250	40	254	320	3,2
300	40	303	370	4
350	40	333	430	4,5
400	40	382	482	5,2
450	40	430	532	6,1
500	40	480	585	7,2
600	40	590	685	8,5



Note:
- DN 15, DN 20 and DN 600 not acc. to DIN 2848

Part Number System

1	DSF	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	PTFE Solid Spacer	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White	Factory Defined	00 - Spacer	00XX - Standard

PTFE Solid Spacer With Support Ring

TEFLON® by DuPont



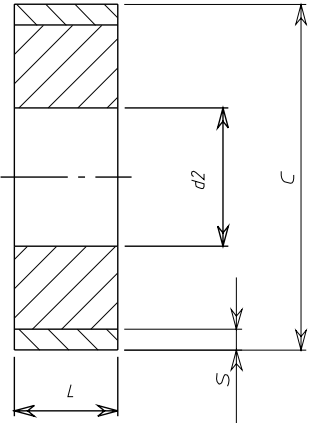
DN	Value Series	Select Series	Option
	PN 10	PN 10	
			PN 25
15		◆ ◆ ●	✓
20		◆ ◆ ●	
25		◆ ◆ ●	
32		◆ ◆ ●	
40		◆ ◆ ●	
50		◆ ◆ ●	
65		◆ ◆ ●	
80		◆ ◆ ●	
100		◆ ◆ ●	
125		◆ ◆ ●	
150		◆ ◆ ●	
200		◆ ◆ ●	
250		◆ ◆ ●	
300		◆ ◆ ●	
350		◆ ◆ ●	
400		◆ ◆ ●	
450		◆ ◆ ●	
500		◆ ◆ ●	
600		◆ ◆ ●	

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Solid Spacer With Support Ring

Dimensional Data per PN 10

DN	L max (mm)	d2 (mm)	d4 (mm)	s (mm)	Weight (ca. kg)
15	20	14	44,5	2,3	0,1
20	20	16	57	2,3	0,1
25	20	22	70	2,6	0,2
32	20	31	76,1	2,6	0,25
40	20	37	88,9	2,9	0,3
50	20	48	101,6	2,9	0,4
65	25	64	114,3	3,2	0,5
80	25	76	139,7	3,6	0,6
100	25	101	159	4	0,75
125	30	125	190,7	3	1,1
150	30	153	212,5	3	1,4
200	30	201	269	3	2
250	40	254	320	3,6	3,2
300	40	303	370	4	4
350	40	333	430	4	4,5
400	40	383	482	5	5,2
450	40	430	532	5	6,1
500	40	480	585	5	7,2
600	40	590	685	5	8,5



Part Number System

1	DSX	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	PTFE Solid Spacer With Support Ring	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White	Factory Defined	00 - Spacer	00XX - Standard 0052 - Earthing Stud 0070 - Stainless Steel

PTFE Lined Ring Spacer

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options						
	PN 10	PN 10	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.						
			PN 25	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
15		◆ ◆ ●	✓	✓	✓				
20		◆ ◆ ●	✓	✓	✓				
25	◆ ●		✓	✓	✓				
32		◆ ◆ ●	✓	✓	✓				
40	◆ ●		✓	✓	✓				
50	◆ ●		✓	✓	✓				
65		◆ ◆ ●	✓	✓	✓				
80	◆ ●		✓	✓	✓				
100	◆ ⊗		✓	✓	✓				
125		◆ ◆ ⊗	✓	✓	✓	✓	✓	✓	✓
150	◆ ⊗		✓	✓	✓				
200		◆ ◆ ⊗	✓	✓	✓				
250		◆ ◆ ⊗	✓	✓	✓				
300		◆ ◆ ⊗	✓	✓	✓				
350		◆ ◆ ⊗	✓	✓	✓				
400		◆ ◆ ⊗	✓	✓	✓				
450		◆ ◆ ⊗	✓	✓	✓				
500		◆ ◆ ○	✓	✓	✓				
600		◆ ◆ ○	✓	✓	✓				

◆ Best Price & Lead Time (1 - 2 Weeks)

● Full Vacuum at 230 °C

◆ ◆ Longer Lead Time (4 - 6 Weeks)

⊗ Reduced Vacuum Resistance at Elevated Temp.

◆ ◆ ◆ Price and Delivery Upon Request

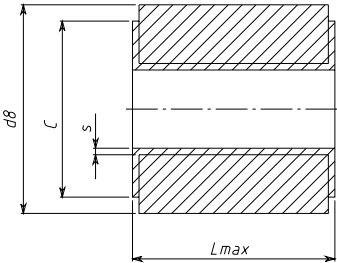
○ Non-Vacuum Rated

PTFE Lined Ring Spacer

Fabricated Steel

Dimensional Data per PN 10

DN	L min (mm)	L max (mm)	S ±10% (mm)	C (mm)	d8 (mm)	Weight (ca. kg/m)
15	20	85	2,5	45	50	0,9
20	20	100	3	58	60	1,2
25	20	100	3	68	70	1,8
32	20	100	3	78	82	2,1
40	20	105	3	88	92	2,6
50	20	115	3	102	107	3,7
65	25	115	3	122	127	4,7
80	25	125	3,5	138	142	6,3
100	25	135	4,5	158	162	9,5
125	30	140	4,5	188	192	11
150	30	145	5	212	218	14
200	30	175	6,25	268	273	18
250	40	190	6,75	320	328	29
300	40	200	8	370	378	30
350	40	205	9	430	438	50
400	40	220	10	482	488	60
450	40	225	7,5	532	540	71
500	60	240	6,5	585	594	75
600	60	260	4,5	685	695	113



Note:
- DN 15, DN 20 and DN 600 not acc. to DIN 2848

Part Number System

1	DSG	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Lined Ring Spacer	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00 - Spacer	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Distance Piece Form H

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options						
	Lined Distance Pieces Not Available in Value Series	PN 10	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.						
			PN 25	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs	Vent Extenders
15		◆ ◆ ●	✓	✓	✓				
20		◆ ◆ ●	✓	✓	✓				
25		◆ ◆ ●	✓	✓	✓				
32		◆ ◆ ●	✓	✓	✓				
40		◆ ◆ ●	✓	✓	✓				
50		◆ ◆ ●	✓	✓	✓				
65		◆ ◆ ●	✓	✓	✓				
80		◆ ◆ ●	✓	✓	✓				
100		◆ ◆ ⊗	✓	✓	✓				
125		◆ ◆ ⊗	✓	✓	✓	✓	✓	✓	✓
150		◆ ◆ ⊗	✓	✓	✓				
200		◆ ◆ ⊗	✓	✓	✓				
250		◆ ◆ ⊗	✓	✓	✓				
300		◆ ◆ ⊗	✓	✓	✓				
350		◆ ◆ ⊗	✓	✓	✓				
400		◆ ◆ ⊗	✓	✓	✓				
450		◆ ◆ ⊗	✓	✓	✓				
500		◆ ◆ ○	✓	✓	✓				
600		◆ ◆ ○	✓	✓	✓				

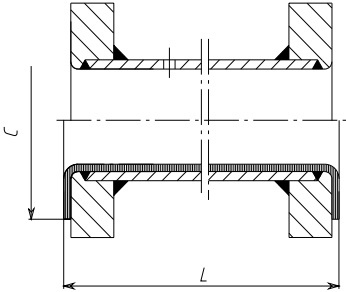
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Lined Distance Piece Form H

Fabricated Steel

Dimensional Data per PN 10

DN	L min (mm)	L max (mm)	S ±10% (mm)	C (mm)	d8 (mm)	Weight Pipe (ca. kg/m)	Weight 2 Collars (ca. kg)
15	50	90	2,5	45	50	1,2	0,25
20	55	100	3	58	60	1,6	0,45
25	55	100	3	68	70	2,5	0,55
32	55	100	3	78	82	3,4	0,7
40	55	105	3	88	92	4,5	0,9
50	60	115	3	102	107	5,8	1,3
65	60	115	3	122	127	7,1	1,6
80	70	125	3,5	138	142	10	2,3
100	70	135	4,5	158	162	14	2,7
125	70	140	4,5	188	192	17,5	4
150	75	145	5	212	218	23,5	4,5
200	80	175	6,25	268	273	39	6,5
250	90	190	6,75	320	328	55,5	9
300	90	200	8	370	378	74	10
350	90	205	9	430	438	85	14
400	90	220	10	482	488	102	17
450	100	230	7,5	532	540	130	20
500	100	240	6,5	585	594	155	23
600	120	260	4,5	685	695	204	32



Note:
- DN 15, DN 20 and DN 600 not acc. to DIN 2848

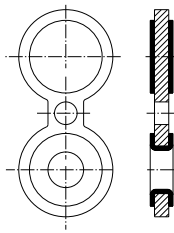
Part Number System

1	DSH	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Distance Piece Form H	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00 - Spacer	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Spectacle Blind Flange

DIN 2848 / 2874
CE, Cat. III (>025)
TEFLON® by DuPont



DN	Value Series	Select Series	Options					
	PN 10	PN 10	Options below not available on stock items. Option selection may affect manufacturing lead time. Consult factory for price and delivery.					
			PN 25	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs
15		◆ ◆	✓	✓	✓			
20		◆ ◆	✓	✓	✓			
25		◆ ◆	✓	✓	✓			
32		◆ ◆	✓	✓	✓			
40	◆	◆ ◆	✓	✓	✓			
50	◆	◆ ◆	✓	✓	✓			
65		◆ ◆	✓	✓	✓			
80	◆	◆ ◆	✓	✓	✓			
100	◆	◆ ◆	✓	✓	✓			
125		◆ ◆	✓	✓	✓			
150	◆	◆ ◆	✓	✓	✓	✓	✓	✓
200		◆ ◆		✓	✓			
250		◆ ◆ ◆		✓	✓			
300		◆ ◆ ◆		✓	✓			
350		◆ ◆ ◆			✓			
400		◆ ◆ ◆			✓			
450		◆ ◆ ◆			✓			
500		◆ ◆ ◆			✓			
600		◆ ◆ ◆			✓			

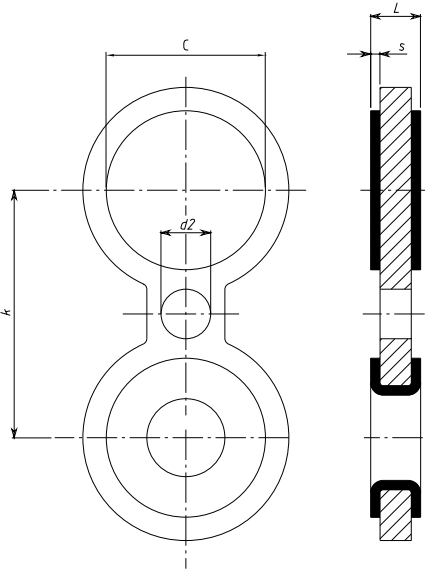
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Lined Spectacle Blind Flange

Fabricated Steel

Dimensional Data per PN 10

Size	L (mm)	S ±10% (mm)	k (mm)	d2 (mm)	d4 (mm)	Weight (ca. kg)
15	18	2,5	65	14	45	0,5
20	20	2,5	75	14	58	0,55
25	20	2,5	85	14	68	0,7
32	20	2,5	100	18	78	1
40	20	3	110	18	88	1,2
50	25	4	125	18	102	1,4
65	25	4	145	18	122	2
80	30	4	160	18	138	3
100	30	4,5	180	18	158	4
125	30	4,5	210	18	188	5,5
150	30	5	240	22	212	7,5
200	35	5	295	22	268	12
250	40	6,75	350	22	320	17
300	40	6	400	22	370	28
350	40	6	460	22	430	44
400	40	6	515	26	482	65
450	40	6	565	26	532	77
500	40	6	620	26	585	102
600						156



Notes:
1.) Drawing shows typical Value Series construction

Part Number System

1	BRL	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Spectacle Blind Flange	015 125 020 150 025 200 032 250 040 300 050 350 064 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Lined Blind Flange

DIN 2848 / 2874

CE, PED Cat. III (>025)

TEFLON® by DuPont



DN	Value Series	Select Series	Options					
	PN 10	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery.					
			PN 25	Stainless Steel Housing	Conductive Liner	Heavy Duty Liner	Special Paint	Earthing Studs
15		◆ ◆ ●	✓	✓	✓	✓		
20		◆ ◆ ●	✓	✓	✓	✓		
25	◆ ●		✓	✓	✓	✓		
32		◆ ◆ ●	✓	✓	✓	✓		
40	◆ ●		✓	✓	✓	✓		
50	◆ ●		✓	✓	✓	✓		
65		◆ ◆ ●	✓	✓	✓	✓		
80	◆ ●		✓	✓	✓	✓		
100	◆ ●		✓	✓	✓	✓		
125		◆ ◆ ●	✓	✓	✓	✓		
150	◆ ●		✓	✓	✓	✓	✓	✓
200		◆ ◆ ●	✓	✓	✓	✓		
250		◆ ◆ ●	✓	✓	✓	✓		
300		◆ ◆ ●	✓	✓	✓	✓		
350		◆ ◆ ◆ ●	✓	✓	✓	✓		
400		◆ ◆ ◆ ●	✓	✓	✓	✓		
450		◆ ◆ ◆ ●	✓	✓	✓	✓		
500		◆ ◆ ◆ ●	✓	✓	✓			
600		◆ ◆ ◆ ●	✓	✓	✓			

◆ Best Price & Lead Time (1 - 2 Weeks)

◆ ◆ Longer Lead Time (4 - 6 Weeks)

◆ ◆ ◆ Price and Delivery Upon Request

● Full Vacuum at 230 °C

● Reduced Vacuum Resistance at Elevated Temp.

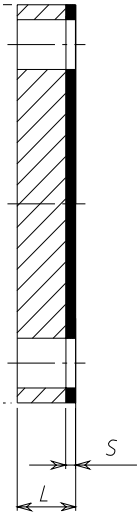
○ Non-Vacuum Rated

PTFE Lined Blind Flange

Fabricated Steel

Dimensional Data per PN 10

Size	L (mm)	S ±10% (mm)	Weight (ca. kg)
15	17	3	0,8
20	19	3	0,9
25	21	3	1,2
32	21	3	1,8
40	21	3	2,1
50	21	3	3
65	21	3	4
80	23,5	3,5	5
100	24,5	4,5	6
125	26,5	4,5	9,1
150	27	5	11,8
200	29	5	18
250	31	5	26
300	31	5	35
350	31	5	45
400	32	6	60
450	32	6	70
500	34	6	85
600	36	6	150



Note: DN 15, 20, 450 and 600 are not acc. to DIN 2848

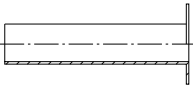
Part Number System

1	BFL	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Blind Flange	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0054 - Vent Boss 0070 - Stainless Steel

PTFE Nozzle Liner

TEFLON® by DuPont



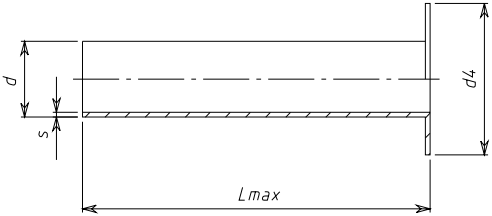
	Value Series	Select Series	Opt.
DN	Nozzle Liner Not Available in Value Series		Conductive Liner
15		◆ ◆	✓
20		◆ ◆	✓
25		◆ ◆	✓
32		◆ ◆	✓
40		◆ ◆	✓
50		◆ ◆	✓
65		◆ ◆	✓
80		◆ ◆	✓
100		◆ ◆	✓
125		◆ ◆	✓
150		◆ ◆	✓
200		◆ ◆	✓
250		◆ ◆	✓
300		◆ ◆	✓
350		◆ ◆	✓
400		◆ ◆ ◆	✓
450		◆ ◆ ◆	✓
500		◆ ◆ ◆	✓

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request

PTFE Nozzle Liner

Dimensional Data

DN	d (mm)	Tol d ± (mm)	S ±10% (mm)	d4±10% (mm)	Weight (ca. kg/m)
25	21	1,5	2,75	60	0,18
32	29	1,5	3	70	0,28
40	35	2	3,5	88	0,40
50	46	2	4	102	0,60
65	63	2	4	122	0,84
80	74,5	2	5	138	1,23
100	95	2,5	5	158	1,58
125	118	3	5	188	1,98
150	140	3	4,5	212	2,12
200	186	4	6	268	3,76
250	228	5	5,5	320	4,24
300	279	5	6,7	370	6,32
300	288	5	7	370	6,82
350	320	6	6,5	430	7,05
350	344	6	8	430	9,31
400	359	6	6,5	482	7,92
400	386	6	6	482	7,87
450	408	6	6,5	525	9,01
500	455	6	12	580	18,45



Note:
- Max. length is 1,5m. Longer length on request

Part Number System

1	NOZ	250	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	PTFE Nozzle Liner	025 125 032 150 040 200 050 250 065 300 080 350 100 400 450 500	10 - DIN	W - White	Factory Defined	00 - Liner	00XX - Standard

PTFE Lined Dip Pipe

CE, PED Cat. III (>025)
TEFLON® by DuPont



DN	Value Series	Select Series	Options							
	PN 10	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery.							
			PN 25	Stainless Steel Housing	Use in Vessels with Agitators	Conductive Liner	PTFE Solid Nozzle	Special Paint	Vacuum Resistance	Earthing Studs
25	◆ ◆ ●		✓	✓	✓	✓	✓	✓	✓	✓
32		◆ ◆ ◆ ●	✓	✓	✓					
40		◆ ◆ ◆ ●	✓	✓	✓					
50	◆ ◆ ●		✓	✓	✓					
65		◆ ◆ ◆ ●	✓	✓	✓					
80	◆ ◆ ●		✓	✓	✓					
100	◆ ◆ ●		✓	✓	✓					
150		◆ ◆ ◆ ●	✓	✓	✓					
200		◆ ◆ ◆ ●	✓	✓	✓					

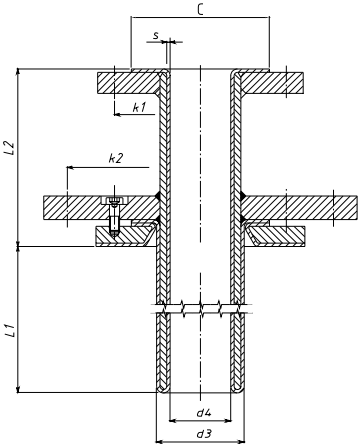
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Lined Dip Pipe

Fabricated Steel

Dimensional Data per PN 10

DN 1	Outside Dia. x Wall (mm)	Type	L1 ±25 mm	L2 ±5 mm	d3 (mm)	d4 (mm)	C (mm)	S ±10% (mm)	Weight of Pipe (kg/m)
25	33,7 x 2,6	I	3000	150	39	23	68	2,7	2,6
32	42,4 x 2,6	I	2000	150	49	30,5	78	3,3	3,3
040	48,3 x 3,2	I	2600	150	55	35,5	88	3,2	4,4
	48,3 x 5,6	II	2800	150	54	32		2,7	7,3
050	60,3 x 4,5	I	2500	150	67	45	102	3,3	7,9
	60,3 x 8,0	II	2700	150	67	38		3,3	12,2
65	76,1 x 4,0	I	1800	150	82,5	62	122	3,1	9,2
080	88,9 x 4,5	I	2100	150	96	73	138	3,4	12,2
	88,9 x 10,0	II	2300	150	96	62		3,4	22,3
	88,9 x 14,2	III	2400	150	96	54		3,4	29
100	114,3 x 5,0	I	2100	150	124,5	94	158	4,5	17,5
	114,3 x 10,0	II	2200	150	124,5	84		4,5	29,7
	114,3 x 16,0	III	2400	150	124,5	72		4,5	42,6
150	168,3 x 6,3	I	1900	150	177,5	147	212	5,0	30,8
	168,3 x 8,0	II	1900	150	177,5	143		5,0	36,9
200	219,1 x 6,3	I	2100	150	230	196	268	5,3	41,2



Part Number System

1	TAN	100	10	W	XX	00	00XX
Type	Fitting	Diameter	Pressure	Liner	PTFE Type	Flanges	Options
Finished	Dip Pipe	Factory Defined	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	00	00XX - Standard 0052 - Earthing Stud 0070 - Stainless Steel

PTFE Lined Sparger

CE, PED Cat. III (>025)
TEFLON® by DuPont



DN	Value Series	Select Series	Options						
	PN 10	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery						
			PN 25	Stainless Steel Housing	Use in Vessels with Agitators	Conductive Liner	Special Paint	Vacuum Resistance	Earthing Studs
25	◆◆●		✓	✓	✓				
32		◆◆◆●	✓	✓	✓				
40		◆◆◆●	✓	✓	✓				
50	◆◆●		✓	✓	✓				
65		◆◆◆●	✓	✓	✓	✓	✓	✓	✓
80	◆◆●		✓	✓	✓				
100	◆◆●		✓	✓	✓				
150		◆◆◆●	✓	✓	✓				
200		◆◆◆●	✓	✓	✓				

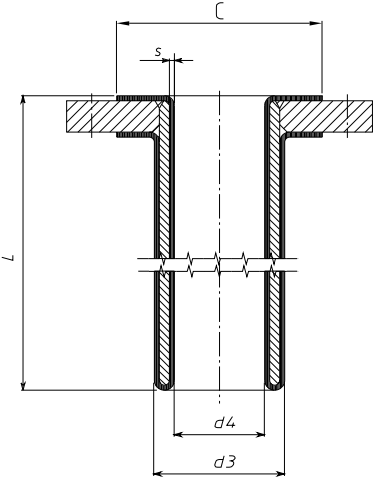
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆◆ Longer Lead Time (4 - 6 Weeks)
- ◆◆◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE Lined Sparger

Fabricated Steel

Dimensional Data per PN 10

DN	Outside Dia. x Wall (mm)	Type	L ±25 mm	d3 (mm)	d4 (mm)	C (mm)	S ±10% (mm)	Weight of Pipe (kg/m)	Weight of Flange (kg)
25	33,7 x 2,6	I	3000	39	23	68	2,7	2,9	1,2
32	42,4 x 2,6	I	2000	49	30,5	78	3,3	3,6	1,7
40	48,3 x 3,2	I	2700	55	35,5	88	3,2	4,4	1,9
	48,3 x 5,6	II	2900	54	32		2,7	7,3	1,9
50	60,3 x 4,5	I	2600	67	45	102	3,3	7,9	2,5
	60,3 x 8,0	II	2800	67	38		3,3	12,2	2,5
65	76,1 x 4,0	I	1900	82,5	62	122	3,1	9,2	3,0
80	88,9 x 4,5	I	2200	96	73	138	3,4	12,2	3,8
	88,9 x 10,0	II	2400	96	62		3,4	22,3	3,8
	88,9 x 14,2	III	2500	96	54		3,4	29	3,8
100	114,3 x 5,0	I	2200	124,5	94	158	4,5	17,5	4,1
	114,3 x 10,0	II	2300	124,5	84		4,5	29,7	4,1
	114,3 x 16,0	III	2400	124,5	72		4,5	42,6	4,1
150	168,3 x 6,3	I	2000	177,5	147	212	5,0	31,1	6,6
	168,3 x 8,0	II	2000	177,5	143		5,0	37,2	6,6
200	219,1 x 6,3	I	2100	230	196	268	5,3	41,2	9,4

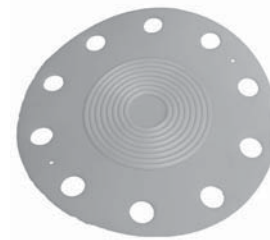


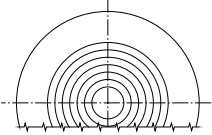
Part Number System

1	ELR	100	10	W	XX	FN1	0XX
Type	Fitting	Diameter	Pressure	Liner	PTFE Type	Flanges	Options
Finished	PTFE lined Sparger	025 032 040 050 065 080 100 150 200	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	FN1 = Type 1 FN2 = Type 2 FN3 = Type 3	00XX - Standard 0052 - Earthing Stud 0070 - Stainless Steel

PTFE Diaphragm

TEFLON® by DuPont



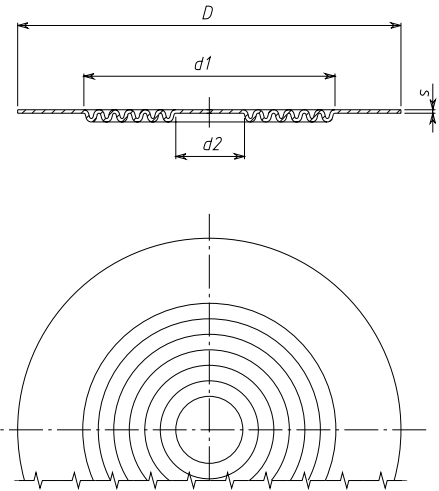
max. Outside Diameter	Number of Convolutes	Value Series	Select Series	Opt.	
		not available in Value Series		White Liner	Black Liner
135	3		◆ ◆	Standard	✓
145	6		◆ ◆		✓
165	8		◆ ◆		✓
190	8		◆ ◆		✓
210	6		◆ ◆		✓
	6		◆ ◆		✓
240	13		◆ ◆		✓
	8		◆ ◆		✓
	11		◆ ◆		✓
245	8		◆ ◆		✓
	8		◆ ◆		✓
	8		◆ ◆		✓
260	11		◆ ◆		✓
270	8		◆ ◆		✓
275	9		◆ ◆		✓
295	9		◆ ◆		✓
300	9		◆ ◆		✓
330	13		◆ ◆		✓
395	13		◆ ◆		✓
440	17		◆ ◆		✓
450	13		◆ ◆		✓
490	16		◆ ◆		✓

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request

PTFE Diaphragm

Dimensional data

max. Outside Dia. +0% / -3% (mm)	Number of Convolute	d1 ± 5% (mm)	d2 ± 5% (mm)	S ±10% (mm)
135	3	52	25	1,5
145	6	65	25	1,5
165	8	99	40	1,5
190	8	96	38	1,5
210	6	62	17	1,8
210	6	75	17	1,8
240	13	110	14	2,3
240	8	145	40	2,3
240	11	200	66	2,3
245	8	96	40	2,3
245	8	140	55	2,3
245	8	143	45	2,3
260	11	200	73	2,5
270	8	132	40	2,5
275	9	160	54	2,5
295	9	160	55	2,5
300	9	165	55	2,5
330	13	207	55	2,5
395	13	208	54	2,7
440	17	258	54	3,3
450	13	280	52	3,3
490	16	330	50	3,3

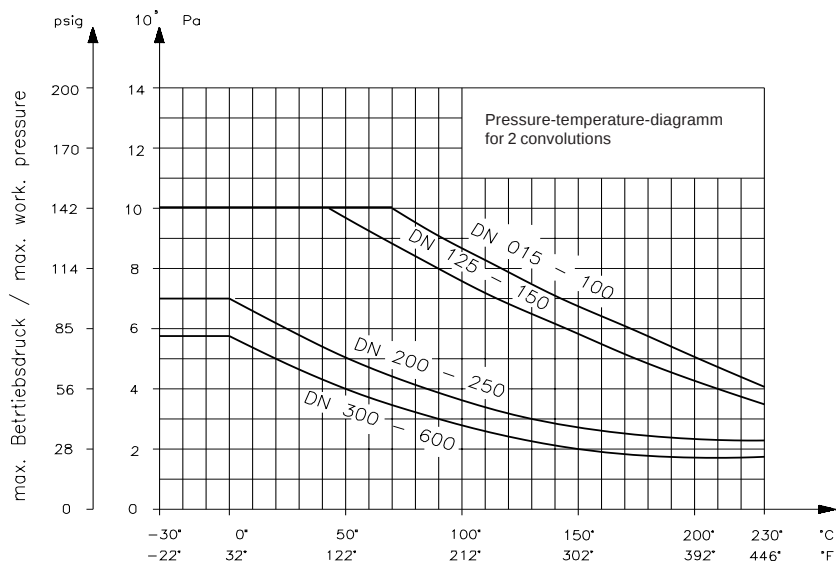


Part Number System

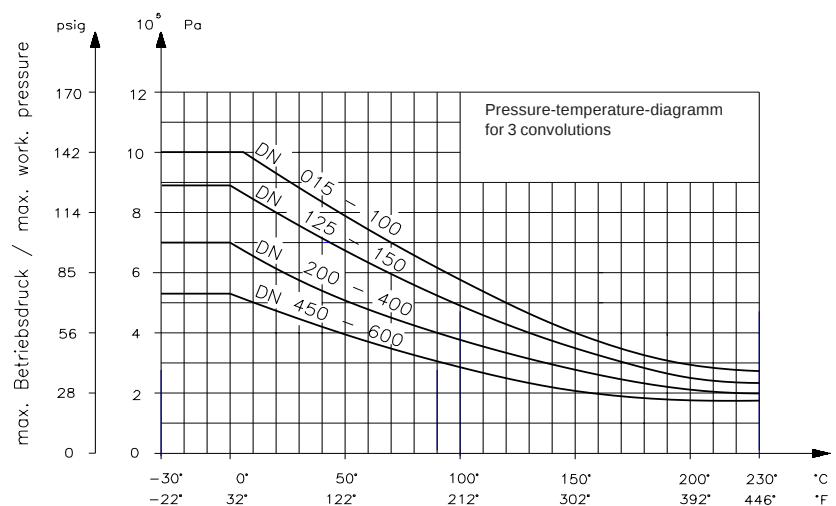
1	MEM	245		08	W	00000000
Type	Fitting	max. Outside Diameter		Number of Conv.	Liner	Options
Finished	PTFE Diaphragm	135	275	03	W - White S - Black	00000000-Standard
		145	295	06		
		165	300	08		
		190	330	09		
		210	395	11		
		240	440	13		
		245	450	16		
		260	490	17		
		270				

Pressure-temperature-diagramms for PTFE-bellows with standard wall thickness

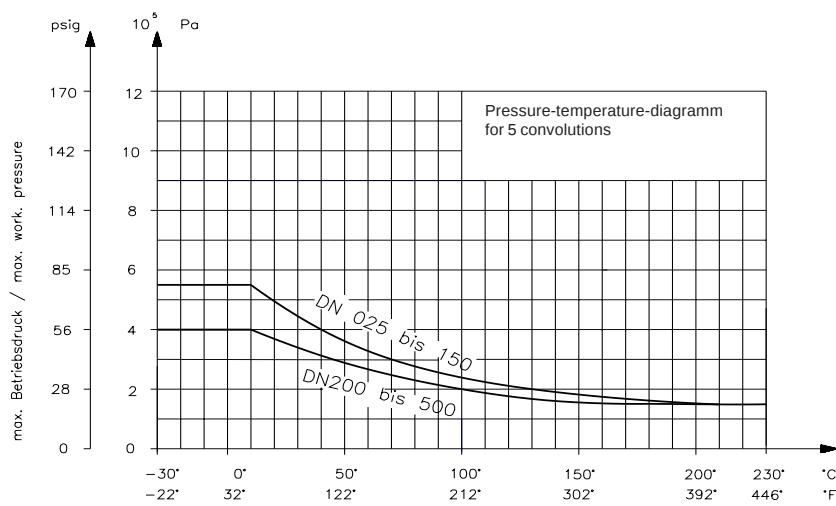
Bellow with 2 convolutions



Bellow with 3 convolutions

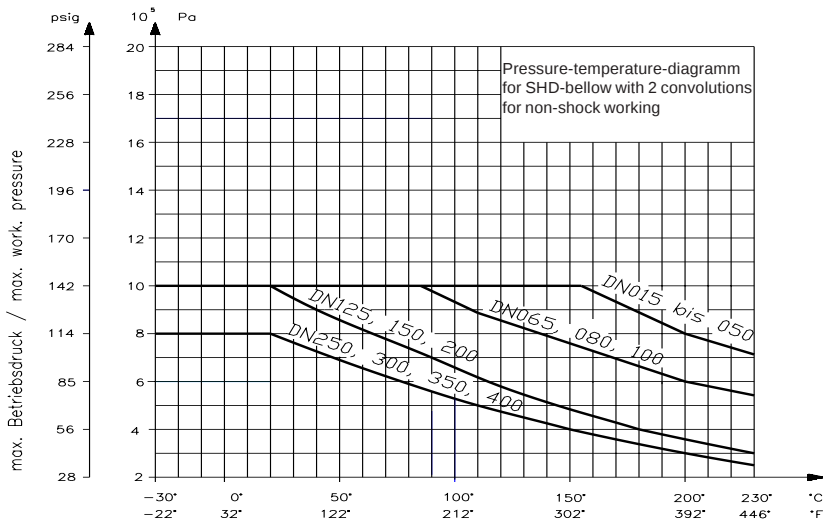


Bellow with 5 convolutions

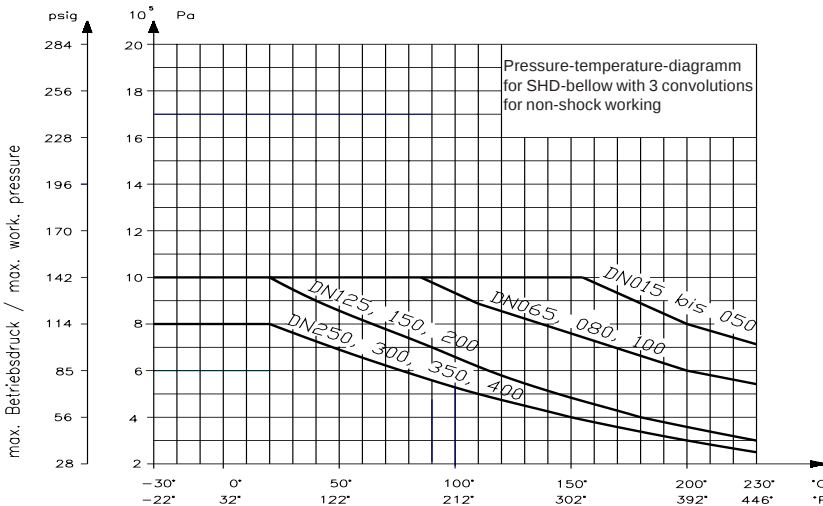


Pressure-temperature- diagrams for PTFE-bellows with SHD wall thickness

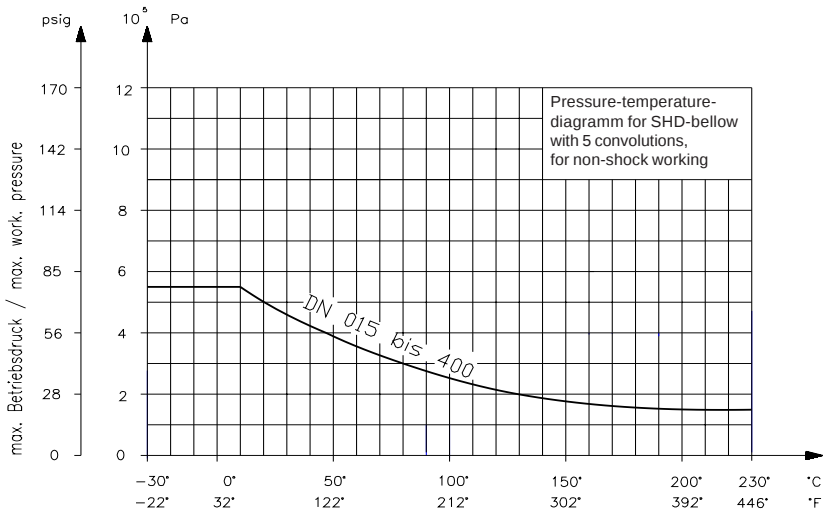
Bellow with 2 convolutions



Bellow with 3 convolutions



Bellow with 5 convolutions



PTFE-Expansion-Joint 2 Convolutions

DN	axial travel max. (± mm)	misalign-ment max. (mm)	eff. bellows cross-section (cm ²)	vacuum resistance		inherent resistance	
				at 10 ⁴ Pa	at max. °C	C compress. (N / mm)	W extension (N / mm)
15	5	2	10	0,1	200	26	24
20	6	3	10	0,1	200	26	24
25	6	3	10	0,1	200	26	24
40	6	3	19	0,1	200	81	63
50	6	3	30	0,1	200	140	90
65	9	5	45	0,1	200	159	102
80	9	5	70	0,1	200	170	120
100	13	6	112	0,1	200	194	130
125	13	6	166	0,1	150	230	138
150	13	6	245	0,1	150	263	145
200	13	6	400	0,1	50	380	157
				2	150		
250	15	6	660	0,7	45	212	156
				3,4	100		
300	20	10	770	1,5	45	200	158
				6,7	100		
350	20	10	1260	1,5	45	251	185
				6,7	100		
400	25	10	1500	1,5	45	260	192
				6,7	100		
450	25	10	2000	3,4	45	385	340
				7	100		
500	25	10	2080	8	100	-	-
600	15	10	3200	8,7	100	-	-

Angular deflection approx. 7° max. Axial travel is based on installation without misalignment or angular deflection.

The burst pressure is approx. 4 times the max. working pressure shown on the diagramm.

The figures stated are average values and apply to room temperature. Deviations due to processing variations are possible.

For compression :

$$\text{Compression force } F_c = C \times S^{1/2}$$

where C from table

S = travel in mm

For extension:

$$\text{Expansion force } F_w = W \times S$$

where W from table

S = travel in mm

Flanges up to DN 400 have 2 limit bolts, DN 450, 500 and 600 have 3.

PTFE-Expansion-Joint

3 Convolutes

DN	axial travel max.	misalignment max.	eff. bellows cross-section	vacuum resistance		inherent resistance	
	(± mm)			at 10 ⁴ Pa	at max. °C	C compress. (N / mm)	W extension (N / mm)
15	10	4	10	0,1	200	25	21
20	12	5	10	0,1	200	25	21
25	13	6	10	0,1	200	25	21
40	13	6	19	0,1	200	63	51
50	15	9	30	0,1	200	81	64
65	19	9	45	0,1	200	124	84
80	25	13	70	0,1	200	155	100
100	25	13	112	0,1	200	175	104
125	25	14	166	0,1	150	197	105
150	28	14	245	0,1	150	220	108
200	28	14	400	0,1	50	264	90
				2	150		
250	30	14	660	0,7	45	190	93
				3,4	100		
300	30	15	770	1,5	45	180	95
				6,7	100		
350	32	18	1260	1,5	45	237	110
				6,7	100		
400	35	20	1500	1,5	45	254	100
				6,7	100		
450	30	20	2000	3,4	45	—	—
				7	100		
500	30	25	2080	8	100	—	—
600	25	20	3200	8,7	100	—	—

Angular deflection approx. 14° max. Axial travel is based on installation without misalignment or angular deflection.

The burst pressure is approx. 4 times the max. working pressure shown on the diagramm.

The figures stated are average values and apply to room temperature. Deviations due to processing variations are possible.

For compression :

$$\text{Compression force } F_C = C \times S^{1/2}$$

where C from table

S = travel in mm

For extension:

$$\text{Expansion force } F_W = W \times S$$

where W from table

S = travel in mm

Flanges up to DN 400 have 2 limit bolts, DN 450, 500 and 600 have 3.

PTFE-Expansion-Joint 5 Convolutes

DN	axial travel max. (± mm)	misalignment max. (mm)	eff. bellows cross-section (cm ²)	inherent resistance	
				C compress. (N / mm)	W extension (N / mm)
15	10	8	10	23	20
20	12	10	10	23	20
25	13	12	10	23	20
40	19	12	19	55	40
50	25	12	30	97	43
65	25	13	45	102	56
80	25	16	70	114	62
100	32	16	112	127	67
125	32	16	166	139	68
150	32	16	245	150	68
200	32	16	400	177	68
250	32	16	660	150	68
300	35	18	770	155	78
350	35	18	1260	210	65
400	40	25	1500	200	67
500	40	25	2080	205	65

Calculation of the forces for:

Compression of the bellow:

$$\text{force } F_c = C \times S^{1/2}$$

with C from table

S = travel in mm.

Extension of the bellow:

$$\text{force } F_w = W \times S$$

with W from table

S = travel in mm.

Please notice:

- Curves and chart are only valid at neutral length and with limit bolts in place.
- The max. angular deflection is approx. 20°.
- Above mentioned travel, misalignment or angular deflection are alternatives, i.e. the percentage values are not allowed to exceed 100 % when added together.
- Burst pressure is minimum 4x the indicated in the chart. Compared with the pressure curves of the 2- and 3-convolute bellows, it is here much lower because of the risk of buckling.
- The figures stated are average values and apply to room temperature. Deviations due to processing variations are possible.
- For abrasive applications the bellows (on request) can be equipped with a PTFE-nozzle liner, flared on one side. Movements are then restricted.

Safety instructions:

- Follow install. instructions.
- Do not exceed pressure / temperature rating shown in the appropriate bellows chart.
- Safeguard the units in hazardous service.
- Leave limit bolts in. Severe damage can result if they are removed or altered.
- Remove the flange covers only when ready to install the bellow
- Insure that sealing faces are clean, smooth and parallel.
- While installing the flanges, make sure the bolts do not jut out from the flange backside to the bellow.
- Improperly installation or beyond the pressure / temperature rating may result in property damage or personal injury.

PTFE-SHD- Expansion Joint 2 convolutes

DN	axial travel max. (± mm)	misalign- ment max. (mm)	eff. bellows cross- section (cm ²)	inherent resistance	
				C compress. (N / mm)	W extension (N / mm)
15	6	2	10	180	141
20	6	2	10	180	141
25	6	2,5	10	180	141
40	8	3	19	200	113
50	9	4	30	260	160
65	9	4,5	45	111	144
80	10	5,5	70	266	300
100	13	6	112	209	188
125	16	7	166	121	132
150	16	8	245	277	234
200	18	8	400	299	218
250	20	8	660	174	248
300	20	9	770	300	251
350	22	9	1260	124	377
400	24	10	1500	638	563

vacuum data					
	max. temperature (°F) for full vacuum				
DN	15 - 50	65 - 80	100 - 125	150 - 200	250 - 400
°C / °F	230° / 480°	230° / 480°	230° / 480°	200° / 390°	175° / 350°

For compression forces:

$$\text{Compression force } F_c = C \times S$$

with C from table, S = travel in mm.

For extension forces:

$$\text{Extension force } F_w = W \times S$$

with W from table, S = travel in mm.

Please notice:

- Curves and chart are only valid at neutral length and with limit bolts in place.
- The max. angular deflection is approx. 5°.
- Above mentioned travel, misalignment or angular deflection are alternatives, i.e. the percentage values are not allowed to exceed 100 % when added together.
- Burst pressure is about 4x the indicated in the chart.
- The figures stated are average values and apply to room temperature. Deviations due to processing variations are possible.
- For abrasive applications the bellows (on request) can be equipped with a PTFE-nozzle liner, flared on one side. Movements are then restricted.

Safety instructions:

- Follow install. instructions.
- Do not exceed pressure / temperature rating shown in the appropriate bellows chart.
- Safeguard the units in hazardous service.
- Leave limit bolts in. Severe damage can result if they are removed or altered.
- Remove the flange covers only when ready to install the bellow
- Insure that sealing faces are clean, smooth and parallel.
- While installing the flanges, make sure the bolts do not jut out from the flange backside to the bellow.
- Improperly installation or beyond the pressure / temperature rating may result in property damage or personal injury.

DN	axial travel max.	misalignment max.	eff. bellows cross-section	inherent resistance	
	(± mm)			C compress. (N / mm)	W extension (N / mm)
15	9	3	10	120	94
20	9	4	10	120	94
25	9	4	10	120	94
40	13	6	19	133	75
50	15	8	30	173	104
65	15	9	45	74	96
80	16	10	70	178	200
100	20	12	112	140	125
125	25	13	166	80,5	88
150	25	14	245	185	156
200	28	14	400	200	145
250	30	14	660	116	165
300	30	15	770	200	167,3
350	35	15	1260	129	327
400	35	15	1500	425	375

PTFE-SHD- Expansion Joint 3 convolutes

vacuum data					
max. temperature (°F) for full vacuum					
DN	15 - 50	65 - 80	100 - 125	150 - 200	250 - 400
°C / °F	230° / 480°	230° / 480°	230° / 480°	200° / 390°	175° / 350°

For compression forces:

Compression force $F_c = C \times S$

with C from table, S = travel in mm.

For extension forces:

Extension force $F_w = W \times S$

with W from table, S = travel in mm.

Please notice:

- Above shown curves and chart are only valid at neutral length and with limit bolts in place.
- The max. angular deflection is approx. 10°.
- Above mentioned travel, misalignment or angular deflection are alternatives, i.e. the percentage values are not allowed to exceed 100 % when added together.
- Burst pressure is about 4x the indicated in the chart.
- The figures stated are average values and apply to room temperature. Deviations due to processing variations are possible.
- For abrasive applications the bellows (on request) can be equipped with a PTFE-nozzle liner, flared on one side. Movements are then restricted.

Safety instructions:

- Follow install. instructions.
- Do not exceed pressure / temperature rating shown in the appropriate bellows chart.
- Safeguard the units in hazardous service.
- Leave limit bolts in. Severe damage can result if they are removed or altered.
- Remove the flange covers only when ready to install the bellow
- Insure that sealing faces are clean, smooth and parallel.
- While installing the flanges, make sure the bolts do not jut out from the flange backside to the bellow.
- Improperly installation or beyond the pressure / temperature rating may result in property damage or personal injury.

PTFE-SHD- Expansion Joint 5 convolutes

DN	axial travel max. (± mm)	misalignment max. (mm)	eff. bellows cross-section (cm ²)	inherent resistance	
				C compress. (N / mm)	W extension (N / mm)
15	12	5	10	48	38
20	12	5	10	48	38
25	12	8	10	48	38
40	18	8	19	53	30
50	22	10	30	69	43
65	22	10	45	30	38
80	23	14	70	71	80
100	29	14	112	56	50
125	35	14	166	32	35
150	35	14	245	74	62
200	40	15	400	80	58
250	42	15	660	46	66
300	42	16	770	80	67
350	43	17	1260	101	126
400	45	18	1500	170	150

For compression forces:

Compression force $F_c = C \times S$

with C from table, S = travel in mm.

For extension forces:

Extension force $F_w = W \times S$

with W from table, S = travel in mm.

Please notice:

- Above shown curves and chart are only valid at neutral length and with limit bolts in place.
- The max. angular deflection is approx. 15°.
- Above mentioned travel, misalignment or angular deflection are alternatives, i.e. the percentage values are not allowed to exceed 100 % when added together.
- Burst pressure is about 4x the indicated in the chart.
- Compared with the pressure curves of the 2- and 3-convolute bellows, it is here much lower because of the risk of buckling.
- The figures stated are average values and apply to room temperature. Deviations due to processing variations are possible.
- For abrasive applications the bellows (on request) can be equipped with a PTFE-nozzle liner, flared on one side. Movements are then restricted.

Safety instructions:

- Follow install. instructions.
- Do not exceed pressure / temperature rating shown in the appropriate bellows chart.
- Safeguard the units in hazardous service.
- Leave limit bolts in. Severe damage can result if they are removed or altered.
- Remove the flange covers only when ready to install the bellow
- Insure that sealing faces are clean, smooth and parallel.
- While installing the flanges, make sure the bolts do not jut out from the flange backside to the bellow.
- Improperly installation or beyond the pressure / temperature rating may result in property damage or personal injury.

PTFE-Expansion-Joint with SS Housing & Spacer Bead

DN	axial movement n = 1000	lateral movement	angular move- ment	torsion	eff. bellow cross- section	spring rate	spring rate	spring rate	torsional stress	vacuum service	
	δ ($\pm$ mm)	λ ($\pm$ mm)	α ($^\circ$ rd)	Mt (kNm)	A (cm^2)	$C\delta$ (N/mm)	$C\lambda$ (N/mm)	$C\alpha$ (Nm/grad)	CT (kNm/grad)	at 72 °F 23 °C	at 320 °F 160 °C
032	4,5	2,3	20	-	20	260	106	1,3	0,2	0,15	0,3
	9	9,5	31	-	20	130	14	0,7	0,1	0,15	0,3
040	5,5	2,6	19	0,1	30,6	272	133	2,1	0,3	0,15	0,3
	11	10,5	31	0,1	30,6	136	16	1	0,1	0,15	0,3
050	6,5	2,8	19	0,1	44,7	276	157	3,1	0,5	0,15	0,3
	13,5	13	33	0,2	44,3	195	23	2,2	0,4	0,15	0,3
065	8,5	3	20	0,2	67,1	234	203	4	1,1	0,15	0,3
	16	12	29	0,3	67,4	173	34	3	0,8	0,15	0,3
080	10	3,2	20	0,3	87,3	220	229	5	1,6	0,15	0,3
	17,5	11	30	0,4	87,6	178	53	4,1	1,3	0,15	0,3
100	10	2,3	16	0,7	135	365	769	13	5,6	0,15	0,3
	20	9	28	0,7	135	183	96	6,5	2,8	0,15	0,3
125	14,5	3,9	20	0,9	179,3	290	446	14	6,9	0,25	0,4
	25	14,5	30	1,9	180,7	290	95	14	6,6	0,25	0,4
150	15	3,9	17	2,8	260,7	560	912	39	22	0,25	0,4
	30	15,5	30	2,8	260,7	280	117	20	11	0,25	0,4
200	21	4,2	19	4,1	431,9	412	1123	48	40	0,35	0,5
	39	17,5	30	6,5	434,1	335	191	40	31	0,35	0,5
250	22	3	16	6,5	666	525	3024	95	111	0,4	0,6
	40	12,5	25	7,8	667,4	269	308	49	41	0,4	0,6
300	27	4,4	17	9,2	932,1	480	2037	121	108	0,5	0,75
	47	14	25	12	932,1	352	436	89	80	0,5	0,75
350	30	4,5	17	11	1119,2	460	2205	139	140	0,5	0,75
	46	11,5	23	15	1119,2	378	672	115	116	0,5	0,75
400	26	2,9	13	20	1448,8	713	6211	281	333	0,7	0,9
	52	11,5	22	20	1448,8	357	779	141	167	0,7	0,9
450	35	4,5	15	25	1820,9	548	3643	272	376	0,7	0,9
	65	17,5	24	38	1813,3	430	645	214	284	0,7	0,9
500	28	2,8	12	47	2235,4	955	10492	586	943	1	1
	63	14,5	22	47	2235,4	425	923	261	419	1	1
600	35	3,4	12	48	3200,9	548	6482	484	920	1	1
	63	11	17	48	3200,9	305	1112	269	511	1	1

Reduction factors for application pressure, temperature related, acc. to flange material 1E1:

temperature	°C	20	100	150	200	230
	°F	68	212	302	392	450
appl. pressure	bar	10	8	7,5	6,9	6,2
	psig	142	114	107	98	88

Flange material to select according to service temperature.

PTFE-Expansion-Joint with SS Housing & Spacer Bead Flanges DIN PN 25

DN	axial movement n = 1000	lateral movement	angular move- ment	torsion	eff. bellow cross- section	spring rate	spring rate	spring rate	torsional stress	vacuum service	
	δ ($\pm$ mm)	λ ($\pm$ mm)	α (grd)	Mt (kNm)	A (cm ²)	C δ (N/mm)	C λ (N/mm)	C α (Nm/grd)	C T (kNm/grd)	at 72 °F 23 °C	at 320 °F 160 °C
32	4	2,1	17	0,1	19,7	428	179	2,2	0,2	0,15	0,3
	7,5	7	24	0,1	19,7	238	30	1,2	0,1	0,15	0,3
40	5	2,5	17	0,1	30,8	428	187	3,3	0,4	0,15	0,3
	8,5	9	22	0,2	30,5	354	34	2,7	0,3	0,15	0,3
50	7,5	3,9	19	0,2	44,3	357	141	4	0,7	0,15	0,3
	12	12	25	0,3	44,2	390	43	4,5	0,6	0,15	0,3
65	7	2,7	16	0,5	67,2	660	499	12	2,6	0,15	0,3
	13	9	23	0,5	67,2	367	83	6,5	1,5	0,15	0,3
80	8	2,9	16	0,8	87,8	740	589	17	4,6	0,15	0,3
	14,5	9,5	23	0,8	87,8	412	103	9,6	2,6	0,15	0,3
100	10,5	3,2	16	1,3	135,2	616	700	22	8,8	0,15	0,3
	17,5	10	23	1,8	135	523	172	19	6,4	0,15	0,3
125	10	2,3	14	1,9	180,7	725	1483	35	17	0,25	0,4
	17,5	7	20	1,9	180,7	415	277	20	9,5	0,25	0,4
150	13	3,4	15	3,1	260,2	890	1450	62	25	0,25	0,4
	23,5	11	21	3,1	260,2	495	253	35	14	0,25	0,4
200	15	2,5	13	5,4	436	850	3406	100	64	0,35	0,5
	26	7,5	19	5,4	436	486	634	57	37	0,35	0,5
250	17,5	2,5	13	11	672	975	5008	179	146	0,4	0,6
	30,5	8	18	11	672	558	932	102	84	0,4	0,6
300	20	2,8	12	18	932	1188	6676	302	265	0,5	0,75
	35	8,5	18	18	932	679	1249	173	151	0,5	0,75
350	21	2,7	12	22	1116	1190	7596	363	347	0,5	0,75
	36	8,5	17	22	1116	680	1414	207	198	0,5	0,75
400	22	2,7	11	39	1439	1605	11370	635	672	0,7	0,9
	44	11	18	39	1439	803	1423	318	336	0,7	0,9
450	25	3,5	11	53	1830	1500	8246	756	750	0,7	0,9
	45	11,5	16	53	1830	834	1417	421	417	0,7	0,9
500	24	2,5	9,6	66	2254	1673	16890	1040	1248	1	1
	48	10	16	66	2254	837	2111	520	624	1	1
600	24	2	8,1	97	3190	1675	25274	1483	2297	1	1
	48	8	13	97	3190	838	3161	742	1149	1	1

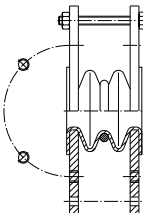
Reduction factors for application pressure, temperature related, acc. to flange material 1E1:

temperature	°C	20	100	150	200	230
	°F	68	212	302	392	450
appl. pressure	bar	25	20	18,7	17,2	15,5
	psig	355	284	265,5	244	220

Flange material to select according to service temperature.

2 Convoluted PTFE Expansion Joints with Reinforcing Rings



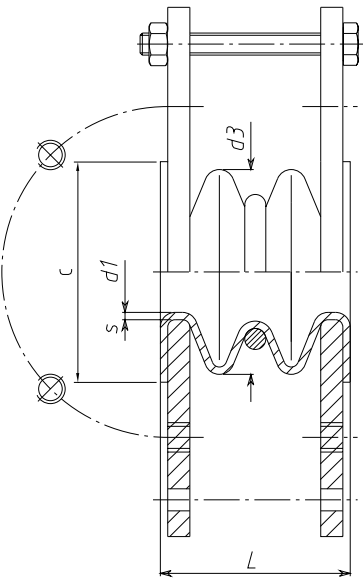
DN	Value Series	Select Series	Options				
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery				
			Flanges of 1.0038	Flanges of 1.4541	Conductive Liner	Limit Bolt Inox A2	Reinforcing Ring Hastelloy
15		◆ ◆ ●	Standard	✓	✓	✓	✓
20		◆ ◆ ●		✓	✓	✓	✓
25		◆ ◆ ●		✓	✓	✓	✓
40		◆ ◆ ●		✓	✓	✓	✓
50		◆ ◆ ●		✓	✓	✓	✓
65		◆ ◆ ●		✓	✓	✓	✓
80		◆ ◆ ●		✓	✓	✓	✓
100		◆ ◆ ●		✓	✓	✓	✓
125		◆ ◆ ●		✓	✓	✓	✓
150		◆ ◆ ●		✓	✓	✓	✓
200		◆ ◆ ●		✓	✓	✓	✓
250		◆ ◆ ◆ ●		✓	✓	✓	✓
300		◆ ◆ ◆ ●		✓	✓	✓	✓
350		◆ ◆ ◆ ●		✓	✓	✓	✓
400		◆ ◆ ◆ ●		✓	✓	✓	✓
450		◆ ◆ ◆ ●		✓	✓	✓	✓
500		◆ ◆ ◆ ●		✓	✓	✓	✓
600		◆ ◆ ◆ ●		✓	✓	✓	✓

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

2 Convoluted PTFE Expansion Joints with Reinforcing Rings

Dimensional Data

DN	L ± 2% (mm)	Thread	C (mm)	S ±10 % (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
15	35	4 x M12	45	3	24	43	1,6
20	35	4 x M12	58	3	24	43	1,6
25	35	4 x M12	68	3	24	43	1,6
40	35	4 x M16	88	3	36	57	2,5
50	40	4 x M16	102	3	50	75	3,6
65	57	4 x M16	122	3	60	91	4,4
80	57	8 x M16	138	3,5	76	104	5,2
100	67	8 x M16	158	4	100	134	6,9
125	83	8 x M16	188	4,25	122	163	11,2
150	75	8 x M20	212	4,5	150	188	12,3
200	102	8 x M20	268	5,25	204	250	20
250	140	12 x M20	320	5,25	255	325	26
300	150	12 x M20	370	5,5	280	345	33
350	160	16 x M20	430	6	350	438	57
400	178	16 x M24	482	6,5	390	462	72
450	185	20 x M24	532	6,5	425	515	79
500	230	20 x M24	585	6,5	470	555	83
600	160	20 x M27	685	5	575	665	108

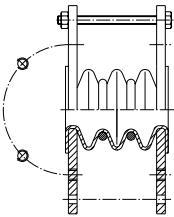


Part Number System

1	K2W	250	10	W	P1	SS	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Expansion Joint with 2 Convolutes	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10	W - White E - Anti-Static	Paste Standard	SS	0017 - Standard 1.0038 0018 - Flanges 1.4541

3 Convoluted PTFE Expansion Joints with Reinforcing Rings



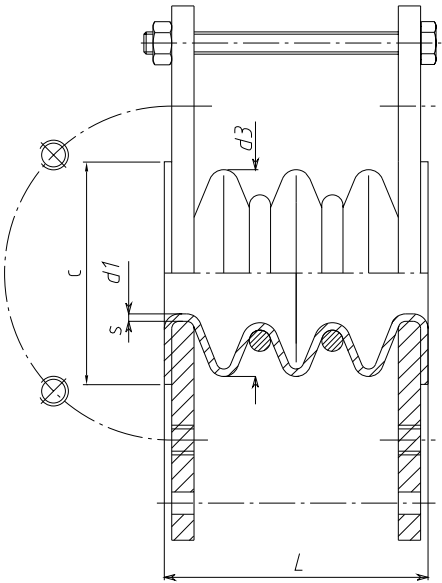
DN	Value Series	Select Series	Options				
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery				
			Flanges of 1.0038	Flanges of 1.4541	Conductive Liner	Limit Bolt Inox A2	Reinforcing Ring Hastelloy
15		◆ ◆ ●	Standard	✓	✓	✓	✓
20		◆ ◆ ●		✓	✓	✓	✓
25		◆ ◆ ●		✓	✓	✓	✓
40		◆ ◆ ●		✓	✓	✓	✓
50		◆ ◆ ●		✓	✓	✓	✓
65		◆ ◆ ●		✓	✓	✓	✓
80		◆ ◆ ●		✓	✓	✓	✓
100		◆ ◆ ●		✓	✓	✓	✓
125		◆ ◆ ●		✓	✓	✓	✓
150		◆ ◆ ●		✓	✓	✓	✓
200		◆ ◆ ●		✓	✓	✓	✓
250		◆ ◆ ◆ ●		✓	✓	✓	✓
300		◆ ◆ ◆ ●		✓	✓	✓	✓
350		◆ ◆ ◆ ●		✓	✓	✓	✓
400		◆ ◆ ◆ ●		✓	✓	✓	✓
450		◆ ◆ ◆ ●		✓	✓	✓	✓
500		◆ ◆ ◆ ●		✓	✓	✓	✓
600		◆ ◆ ◆ ●		✓	✓	✓	✓

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

3 Convoluted PTFE Expansion Joints with Reinforcing Rings

Dimensional Data

DN	L ± 2% (mm)	Thread	C (mm)	S ±10 % (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
15	45	4 x M12	45	3	24	43	1,7
20	45	4 x M12	58	3	24	43	1,7
25	46	4 x M12	68	3	24	43	1,7
40	50	4 x M16	88	3	36	57	2,6
50	56	4 x M16	102	3	50	75	3,8
65	77	4 x M16	122	3	60	91	4,6
80	77	8 x M16	138	3,5	76	104	5,3
100	91	8 x M16	158	4	100	134	7
125	111	8 x M16	188	4,25	122	163	11,4
150	101	8 x M20	212	4,5	150	188	12,7
200	137	8 x M20	268	5,25	204	250	21
250	200	12 x M20	320	5,25	255	325	27
300	196	12 x M20	370	5,5	280	345	35
350	215	16 x M20	430	6	350	438	60
400	233	16 x M24	482	6,5	390	462	75
450	280	20 x M24	532	6,5	425	515	91
500	327	20 x M24	585	6,5	470	555	110
600	300	20 x M27	685	5	575	665	140

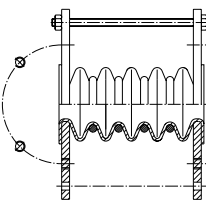


Part Number System

1	K3W	250	10	W	P1	SS	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Expansion Joint with 3 Convolutes	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10	W - White E - Anti-Static	Paste Standard	SS	0017 - Standard 1.0038 0018 - Flanges 1.4541

5 Convoluted PTFE Expansion Joints with Reinforcing Rings



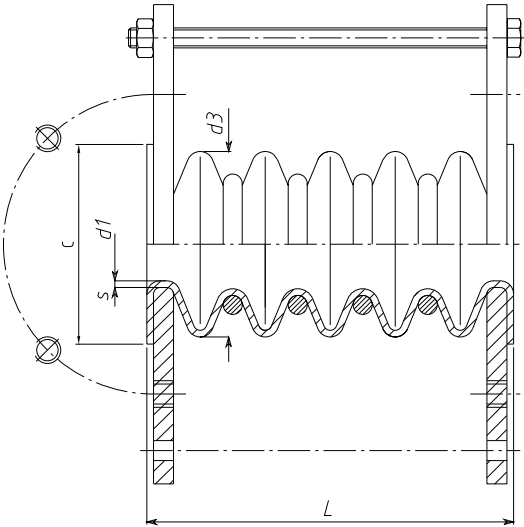
DN	Value Series	Select Series	Options				
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery				
			Flanges of 1.0038	Flanges of 1.4541	Conductive Liner	Limit Bolt Inox A2	Reinforcing Ring Hastelloy
15		◆ ◆ ○	Standard	✓	✓	✓	✓
20		◆ ◆ ○		✓	✓	✓	✓
25		◆ ◆ ○		✓	✓	✓	✓
40		◆ ◆ ○		✓	✓	✓	✓
50		◆ ◆ ○		✓	✓	✓	✓
65		◆ ◆ ○		✓	✓	✓	✓
80		◆ ◆ ○		✓	✓	✓	✓
100		◆ ◆ ○		✓	✓	✓	✓
125		◆ ◆ ○		✓	✓	✓	✓
150		◆ ◆ ○		✓	✓	✓	✓
200		◆ ◆ ○		✓	✓	✓	✓
250		◆ ◆ ◆ ○		✓	✓	✓	✓
300		◆ ◆ ◆ ○		✓	✓	✓	✓
350		◆ ◆ ◆ ○		✓	✓	✓	✓
400		◆ ◆ ◆ ○		✓	✓	✓	✓

◆	Best Price & Lead Time (1 - 2 Weeks)	●	Full Vacuum at 230 °C
◆ ◆	Longer Lead Time (4 - 6 Weeks)	⊗	Reduced Vacuum Resistance at Elevated Temp.
◆ ◆ ◆	Price and Delivery Upon Request	○	Non-Vacuum Rated

5 Convoluted PTFE Expansion Joints with Reinforcing Rings

Dimensional Data

DN	L ± 2% (mm)	Thread	C (mm)	S ±10 % (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
15	65	4 x M12	45	3	24	43	1,9
20	65	4 x M12	58	3	24	43	1,9
25	68	4 x M12	68	3	24	43	1,9
40	80	4 x M16	88	3	36	57	2,7
50	88	4 x M16	102	3	50	75	4,3
65	117	4 x M16	122	3	60	91	5
80	117	8 x M16	138	3,5	76	104	5,4
100	139	8 x M16	158	4	100	134	7,1
125	167	8 x M16	188	4,25	122	163	12
150	153	8 x M20	212	4,5	150	188	14,2
200	207	8 x M20	268	5,25	204	250	22
250	300	12 x M20	320	5,25	255	325	29
300	288	12 x M20	370	5,5	280	345	40
350	325	16 x M20	430	6	350	438	65
400	343	16 x M24	482	6,5	390	462	81

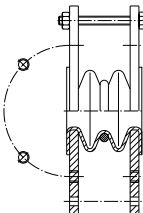


Part Number System

1	K5W	250	10	W	P1	SS	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Expansion Joint with 5 Convolutes	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10	W - White E - Anti-Static	Paste Standard	SS	0017 - Standard 1.0038 0018 - Flansche 1.4541

2 Convoluted PTFE SHD Expansion Joints with Reinforcing Rings



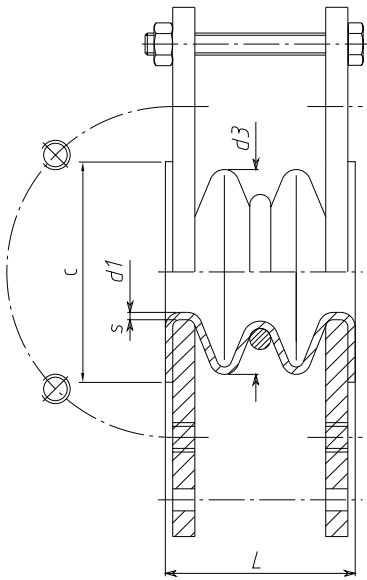
DN	Value Series	Select Series	Optionen				
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery				
			Flanges of 1.0038	Flanges of 1.4541	Conductive Liner	Limit Bolt Inox A2	Reinforcing Ring Hastelloy
15		◆ ◆ ●	Standard	✓	✓	✓	✓
20		◆ ◆ ●		✓	✓	✓	✓
25		◆ ◆ ●		✓	✓	✓	✓
40		◆ ◆ ●		✓	✓	✓	✓
50		◆ ◆ ●		✓	✓	✓	✓
65		◆ ◆ ●		✓	✓	✓	✓
80		◆ ◆ ●		✓	✓	✓	✓
100		◆ ◆ ●		✓	✓	✓	✓
125		◆ ◆ ●		✓	✓	✓	✓
150		◆ ◆ ⊗		✓	✓	✓	✓
200		◆ ◆ ⊗		✓	✓	✓	✓
250		◆ ◆ ◆ ⊗		✓	✓	✓	✓
300		◆ ◆ ◆ ⊗		✓	✓	✓	✓
350		◆ ◆ ◆ ⊗		✓	✓	✓	✓
400		◆ ◆ ◆ ⊗		✓	✓	✓	✓

- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- ⊗ Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

2 Convoluted PTFE SHD Expansion Joints with Reinforcing Rings

Dimensional Data

DN	L ± 3% (mm)	Thread DIN 2501	C (mm)	S min. (mm)	S max. (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
15	36	4 x M12	45	2	5	23	41	1,4
20	36	4 x M12	58	2	5	23	42	1,5
25	36	4 x M12	68	2,25	5	24	43	1,65
40	39	4 x M16	78/88	2,25	5	36	57	2,55
50	47	4 x M16	102	2,25	5	50	75	3,7
65	51	4 x M16	122	2,25	5	60	91	4,5
80	52	8 x M16	138	2,75	6	76	104	5,2
100	64	8 x M16	158	2,75	6	100	134	6,9
125	77	8 x M16	188	2,75	6	122	163	11,3
150	72	8 x M20	212	3	6,75	150	188	12,5
200	92	8 x M20	268	3,5	6,75	204	250	20,5
250	135	12 x M20	320	3,25	7	255	325	26,5
300	135	12 x M20	370	4	7,5	280	345	34
350	150	16 x M20	430	4,5	9	335	435	56
400	156	16 x M24	482	5	10	390	462	74

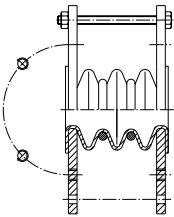


Part Number System

1	K2W	250	10	W	P3	SS	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	SHD Expansion Joint with 2 Convolutes	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 100	10 - PN 10	W - White E - Anti-Static	Paste SHD	SS	0017 - Standard 1.0038 0018 - Flanges 1.4541

3 Convoluted PTFE SHD Expansion Joints with Reinforcing Rings



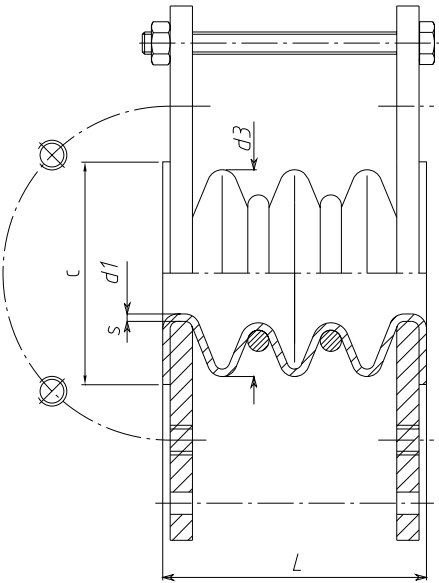
DN	Value Series	Select Series	Optionen				
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery				
			Flanges of 1.0038	Flanges of 1.4541	Conductive Liner	Limit Bolt Inox A2	Reinforcing Ring Hastelloy
15		◆ ◆ ●	Standard	✓	✓	✓	✓
20		◆ ◆ ●		✓	✓	✓	✓
25		◆ ◆ ●		✓	✓	✓	✓
40		◆ ◆ ●		✓	✓	✓	✓
50		◆ ◆ ●		✓	✓	✓	✓
65		◆ ◆ ●		✓	✓	✓	✓
80		◆ ◆ ●		✓	✓	✓	✓
100		◆ ◆ ●		✓	✓	✓	✓
125		◆ ◆ ●		✓	✓	✓	✓
150		◆ ◆ ⊙		✓	✓	✓	✓
200		◆ ◆ ⊙		✓	✓	✓	✓
250		◆ ◆ ◆ ⊙		✓	✓	✓	✓
300		◆ ◆ ◆ ⊙		✓	✓	✓	✓
350		◆ ◆ ◆ ⊙		✓	✓	✓	✓
400		◆ ◆ ◆ ⊙		✓	✓	✓	✓

◆ Best Price & Lead Time (1 - 2 Weeks)	● Full Vacuum at 230 °C
◆ ◆ Longer Lead Time (4 - 6 Weeks)	⊙ Reduced Vacuum Resistance at Elevated Temp.
◆ ◆ ◆ Price and Delivery Upon Request	○ Non-Vacuum Rated

3 Convoluted PTFE SHD Expansion Joints with Reinforcing Rings

Dimensional Data

DN	L ± 3% (mm)	Thread DIN 2501	C (mm)	S min. (mm)	S max. (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
15	54	4 x M12	45	2	5	23	41	1,5
20	54	4 x M12	58	2	5	23	42	1,6
25	54	4 x M12	68	2,25	5	24	43	1,7
40	58	4 x M16	78/88	2,25	5	36	57	2,6
50	69	4 x M16	102	2,25	5	50	75	3,8
65	77	4 x M16	122	2,25	5	60	91	4,6
80	78	8 x M16	138	2,75	6	76	104	5,3
100	96	8 x M16	158	2,75	6	100	134	7
125	115	8 x M16	188	2,75	6	122	163	11,4
150	108	8 x M20	212	3	6,75	150	188	12,7
200	137	8 x M20	268	3,5	6,75	204	250	21
250	195	12 x M20	320	3,25	7	255	325	27
300	196	12 x M20	370	4	7,5	280	345	35
350	200	16 x M20	430	4,5	9	335	435	59
400	233	16 x M24	482	5	10	390	462	75

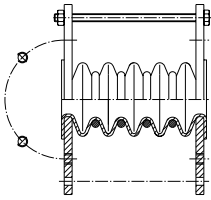


Part Number System

1	K3W	250	10	W	P3	SS	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	SHD Expansion Joint with 3 Convolutes	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 100	10 - PN 10	W - White E - Anti-Static	Paste SHD	SS	0017 - Standard 1.0038 0018 - Flanges 1.4541

5 Convoluted PTFE SHD Expansion Joints with Reinforcing Rings



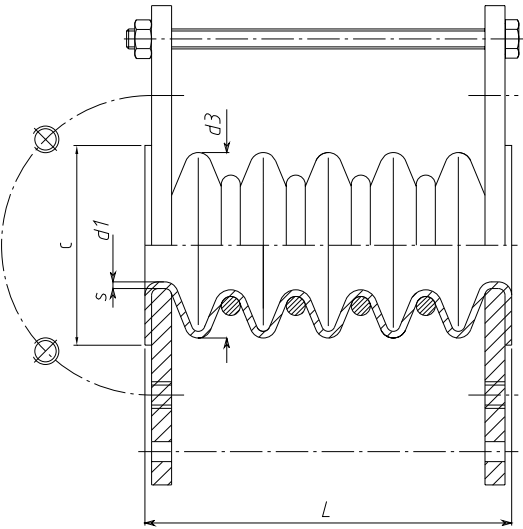
DN	Value Series	Select Series	Optionen				
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery				
			Flanges of 1.0038	Flanges of 1.4541	Conductive Liner	Limit Bolt Inox A2	Reinforcing Ring Hastelloy
15		◆ ◆ ○	Standard	✓	✓	✓	✓
20		◆ ◆ ○		✓	✓	✓	✓
25		◆ ◆ ○		✓	✓	✓	✓
40		◆ ◆ ○		✓	✓	✓	✓
50		◆ ◆ ○		✓	✓	✓	✓
65		◆ ◆ ○		✓	✓	✓	✓
80		◆ ◆ ○		✓	✓	✓	✓
100		◆ ◆ ○		✓	✓	✓	✓
125		◆ ◆ ○		✓	✓	✓	✓
150		◆ ◆ ○		✓	✓	✓	✓
200		◆ ◆ ○		✓	✓	✓	✓
250		◆ ◆ ◆ ○		✓	✓	✓	✓
300		◆ ◆ ◆ ○		✓	✓	✓	✓
350		◆ ◆ ◆ ○		✓	✓	✓	✓
400		◆ ◆ ◆ ○		✓	✓	✓	✓

◆ Best Price & Lead Time (1 - 2 Weeks)	● Full Vacuum at 230 °C
◆ ◆ Longer Lead Time (4 - 6 Weeks)	⊗ Reduced Vacuum Resistance at Elevated Temp.
◆ ◆ ◆ Price and Delivery Upon Request	○ Non-Vacuum Rated

5 Convoluted PTFE SHD Expansion Joints with Reinforcing Rings

Dimensional Data

DN	L ± 3% (mm)	Thread DIN 2501	C (mm)	S min. (mm)	S max. (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
15	87	4 x M12	45	2	5	23	41	1,6
20	87	4 x M12	58	2	5	23	42	1,7
25	87	4 x M12	68	2,25	5	24	43	1,8
40	94	4 x M16	78/88	2,25	5	36	57	2,7
50	112	4 x M16	102	2,25	5	50	75	4
65	124	4 x M16	122	2,25	5	60	91	4,8
80	126	8 x M16	138	2,75	6	76	104	5,5
100	155	8 x M16	158	2,75	6	100	134	7,2
125	185	8 x M16	188	2,75	6	122	163	11,8
150	174	8 x M20	212	3	6,75	150	188	13,1
200	220	8 x M20	268	3,5	6,75	204	250	21,7
250	315	12 x M20	320	3,25	7	255	325	27,8
300	316	12 x M20	370	4	7,5	280	345	36
350	320	16 x M20	430	4,5	9	335	435	61
400	375	16 x M24	482	5	10	390	462	77



Part Number System

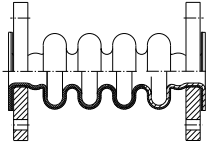
1	K5W	250	10	W	P3	SS	00XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	SHD Expansion Joint with 5 Convolutes	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 100	10 - PN 10	W - White E - Anti-Static	Paste SHD	SS	0017 - Standard 1.0038 0018 - Flanges 1.4541

PTFE-Expansion Joints with SS Housing and Spacer Bead

TEFLON® by DuPont

DN 32 - 150



DN	Value Series	Select Series	Options					
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery					
			Flanges of 1.0038	Flanges 1.4541	Bellow of 1.4541	Bellow of Hastelloy C4	Conductive Liner	PN 25
32		◆ ◆ ◆ ●	Standard	✓	Standard	✓	✓	✓
40		◆ ◆ ◆ ●		✓		✓	✓	✓
50		◆ ◆ ◆ ●		✓		✓	✓	✓
65		◆ ◆ ◆ ●		✓		✓	✓	✓
80		◆ ◆ ◆ ●		✓		✓	✓	✓
100		◆ ◆ ◆ ●		✓		✓	✓	✓
125		◆ ◆ ◆ ●		✓		✓	✓	✓
150		◆ ◆ ◆ ●		✓		✓	✓	✓

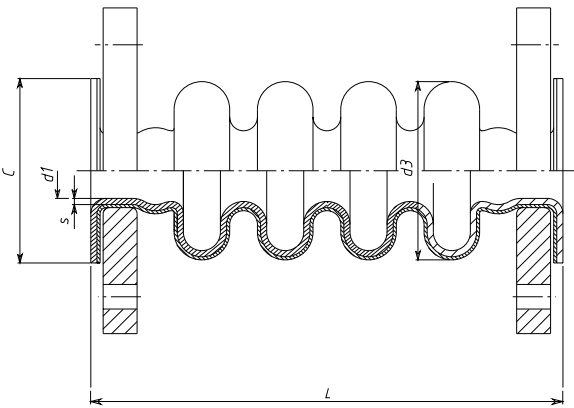
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE-Expansion Joints with SS Housing and Spacer Bead

DN 32 - 150

Dimensional Data per PN 10

DN	L + 5% - 1,5% (mm)	S ±10 % (mm)	C ± 5 % (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
032	145	3	70	35	61	3,9
	220	3	70	35	61	4,1
040	157	4	80	44	77	4,5
	242	4	80	44	77	4,8
050	179	4	92	56	89	5,7
	294	4	92	56	89	6,5
065	181	4	107	72	108	6,9
	287	4	107	72	108	7,9
080	185	4	122	84	124	8
	275	4	122	84	124	9
100	179	4,5	147	107	151	10
	267	4,5	147	107	151	11
125	221	4,5	178	126	181	14
	363	4,5	178	126	181	17
150	248	5	208	154	212	18
	388	5	208	154	212	23



Part Number System

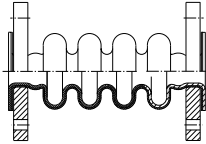
1	EKS	100	10	W	XX	LLL1	XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Stainless Steel Expansion Joint	015 125 020 150 025 200 032 250 040 300 050 350 065 400 080 450 100 500 600	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	LL L1 - loose /loose - Length 1 LL L2 - loose /loose - Length 2	26 - Flanges 1.0038 27 - Flanges 1.4541

PTFE-Expansion Joints with SS Housing and Spacer Bead

TEFLON® by DuPont

DN 200 - 600



DN	Value Series	Select Series	Options					
	not available in Value Series	PN 10	Option selection may affect manufacturing lead time. Consult factory for price and delivery					
			Flanges of 1.0038	Flanges 1.4541	Bellow of 1.4541	Bellow of Hastelloy C4	Conductive Liner	PN 25
200		◆ ◆ ◆ ●	Standard	✓	Standard	✓	✓	✓
250		◆ ◆ ◆ ●		✓		✓	✓	✓
300		◆ ◆ ◆ ●		✓		✓	✓	✓
350		◆ ◆ ◆ ●		✓		✓	✓	✓
400		◆ ◆ ◆ ●		✓		✓	✓	✓
450		◆ ◆ ◆ ●		✓		✓	✓	✓
500		◆ ◆ ◆ ○		✓		✓	✓	✓
600		◆ ◆ ◆ ○		✓		✓	✓	✓

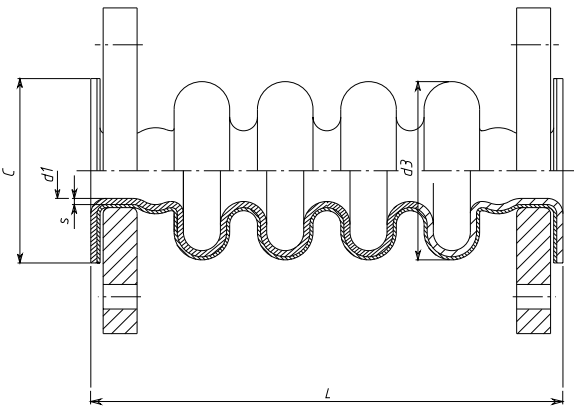
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE-Expansion Joints with SS Housing and Spacer Bead

DN 200 - 600

Dimensional Data per PN 10

DN	L + 5 % - 1,5 % (mm)	S ±10 % (mm)	C ± 5 % (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
200	246	5	258	204	265	25
	418	5	258	204	265	33
250	241	5	320	258	324	32
	390	5	320	258	324	38
300	287	6	370	306	376	40
	429	6	370	306	376	51
350	296	6,25	410	337	408	56
	407	6,25	410	337	408	66
400	288	6,25	465	387	461	74
	432	6,25	465	387	461	85
450	329	6,25	520	438	516	85
	536	6,25	520	438	516	113
500	310	6,25	570	489	570	104
	510	6,25	570	489	570	129
600	334	4,5	670	594	678	126
	482	4,5	670	594	678	144



Part Number System

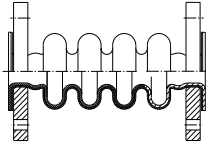
1	EKS	250	10	W	XX	LLL1	XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Stainless Steel Expansion Joint	015	125	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	LL L1 - loose /loose - Length 1 LL L2 - loose /loose - Length 2 26 - Flanges 1.0038 27 - Flanges 1.4541
		020	150				
		025	200				
		032	250				
		040	300				
		050	350				
		065	400				
		080	450				
		100	500				
			600				

PTFE-Expansion Joints with SS Housing and Spacer Bead (DIN PN 25)

TEFLON® by DuPont



DN 32 - 150

DN	Value Series	Select Series	Options					
	not available in Value Series	PN 25	Option selection may affect manufacturing lead time. Consult factory for price and delivery					
			Flanges of 1.0038	Flanges 1.4541	Bellow of 1.4541	Bellow of Hastelloy C4	Conductive Liner	PN 10
32		◆ ◆ ◆ ●	Standard	✓	Standard	✓	✓	✓
40		◆ ◆ ◆ ●		✓		✓	✓	✓
50		◆ ◆ ◆ ●		✓		✓	✓	✓
65		◆ ◆ ◆ ●		✓		✓	✓	✓
80		◆ ◆ ◆ ●		✓		✓	✓	✓
100		◆ ◆ ◆ ●		✓		✓	✓	✓
125		◆ ◆ ◆ ●		✓		✓	✓	✓
150		◆ ◆ ◆ ●		✓		✓	✓	✓

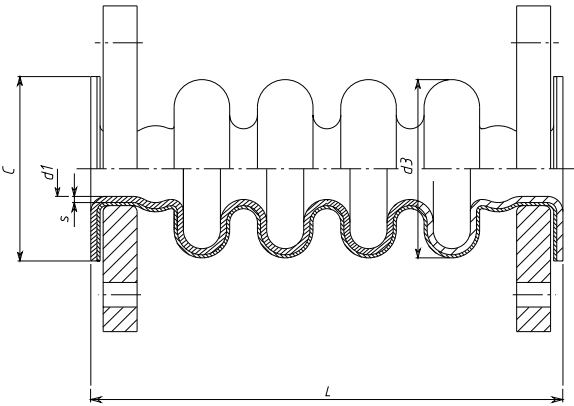
- ◆ Best Price & Lead Time (1 - 2 Weeks)
- ◆ ◆ Longer Lead Time (4 - 6 Weeks)
- ◆ ◆ ◆ Price and Delivery Upon Request
- Full Vacuum at 230 °C
- Reduced Vacuum Resistance at Elevated Temp.
- Non-Vacuum Rated

PTFE-Expansion Joints with SS Housing and Spacer Bead (DIN PN 25)

DN 32 - 150

Dimensional Data per PN 25

DN	L + 5% - 1,5% (mm)	S ±10 % (mm)	C ± 5 % (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
032	146	3	70	35	61	4
	206	3	70	35	61	4,2
040	163	4	80	44	77	4,6
	263	4	80	44	77	5,2
050	201	4	92	56	89	6
	308	4	92	56	89	7,2
065	197	4	107	72	108	7,7
	281	4	107	72	108	8,9
080	211	4	122	84	124	10
	303	4	122	84	124	11
100	217	4,5	147	107	151	13
	323	4,5	147	107	151	16
125	215	4,5	178	126	181	19
	293	4,5	178	126	181	21
150	256	5	208	154	212	23
	368	5	208	154	212	28



Part Number System

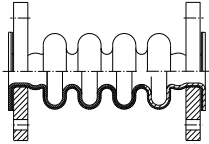
1	EKS	100	25	W	XX	LLL1	XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Stainless Steel Expansion Joint	015	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	LL L1 - loose /loose - Length 1 LL L2 - loose /loose - Length 2	26 - Flanges 1.0038 27 - Flanges 1.4541
		020					
		025					
		032					
		040					
		050					
		065					
		080					
		100					
		600					

PTFE-Expansion Joints with SS Housing and Spacer Bead (DIN PN 25)

TEFLON® by DuPont

DN 200 - 600



DN	Value Series	Select Series	Options					
	not available in Value Series	PN 25	Option selection may affect manufacturing lead time. Consult factory for price and delivery					
			Flanges of 1.0038	Flanges 1.4541	Bellow of 1.4541	Bellow of Hastelloy C4	Conductive Liner	PN 10
200		◆ ◆ ◆ ●	Standard	✓	Standard	✓	✓	✓
250		◆ ◆ ◆ ●		✓		✓	✓	✓
300		◆ ◆ ◆ ●		✓		✓	✓	✓
350		◆ ◆ ◆ ●		✓		✓	✓	✓
400		◆ ◆ ◆ ●		✓		✓	✓	✓
450		◆ ◆ ◆ ●		✓		✓	✓	✓
500		◆ ◆ ◆ ○		✓		✓	✓	✓
600		◆ ◆ ◆ ○		✓		✓	✓	✓

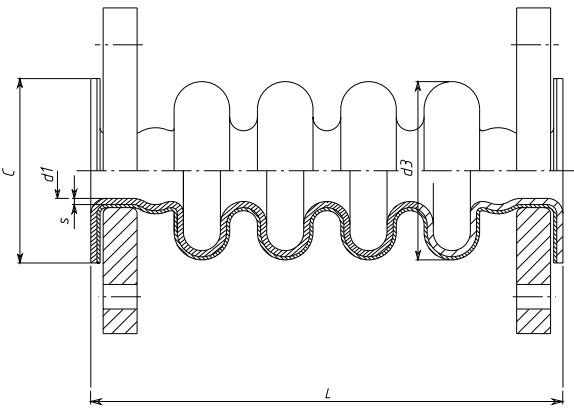
◆	Best Price & Lead Time (1 - 2 Weeks)	●	Full Vacuum at 230 °C
◆ ◆	Longer Lead Time (4 - 6 Weeks)	●	Reduced Vacuum Resistance at Elevated Temp.
◆ ◆ ◆	Price and Delivery Upon Request	○	Non-Vacuum Rated

PTFE-Expansion Joints with SS Housing
and Spacer Bead (DIN PN 25)

DN 200 - 600

Dimensional Data per PN 25

DN	L + 5% - 1,5% (mm)	S ±10 % (mm)	C ± 5 % (mm)	d 1 ± 5 % (mm)	d 3 ± 5 % (mm)	Weight (ca. kg)
200	239	5	258	204	265	36
	326	5	258	204	265	40
250	268	5	320	258	324	51
	364	5	320	258	324	57
300	293	6	375	306	376	71
	401	6	375	306	376	80
350	305	6,25	410	337	408	103
	416	6,25	410	337	408	112
400	328	6,25	465	387	461	128
	488	6,25	465	387	461	146
450	377	6,25	520	438	516	155
	541	6,25	520	438	516	179
500	340	6,25	570	489	570	173
	508	6,25	570	489	570	201
600	337	4,5	670	594	678	220
	501	4,5	670	594	678	250



Part Number System

1	EKS	250	25	W	XX	LLL1	XX
Type	Fitting	Diameter	Pressure	Liner	Resin Type	Flanges	Options
Finished	Stainless Steel Expansion Joint	015	125	10 - PN 10 25 - PN 25	W - White E - Anti-Static	Factory Defined	LL L1 - loose /loose - Length 1 LL L2 - loose /loose - Length 2 26 - Flanges 1.0038 27 - Flanges 1.4541
		020	150				
		025	200				
		032	250				
		040	300				
		050	350				
		065	400				
		080	450				
		100	500				
			600				



Potravinářský průmysl
Farmaceutický průmysl
Biotechnologie
Petrochemie
Chemický průmysl
Energetika
Úprava vody
Papírenství a zpracování celulózy
Plynárenský průmysl
Keramický průmysl
Zpracovatelský průmysl



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