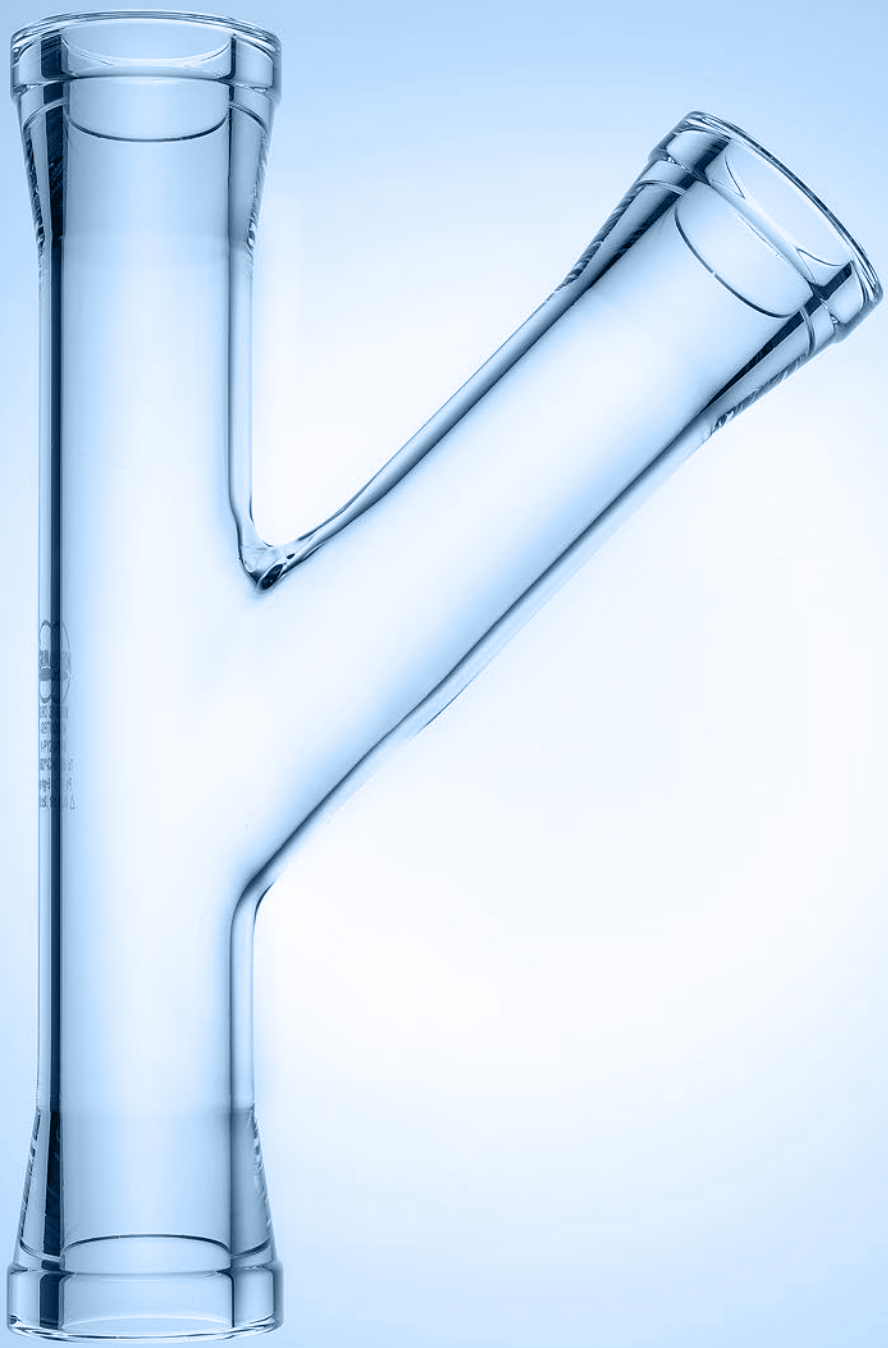
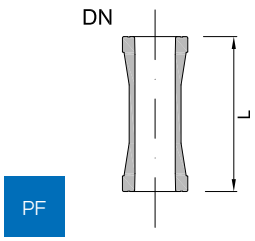
NORMAG

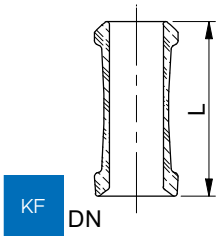
Lab & Process Glass



Rohrleitungen und Schläuche
Pipelines and hoses

GMM Pfaudler





Rohr

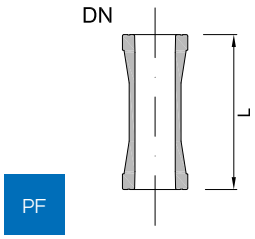
Pipe

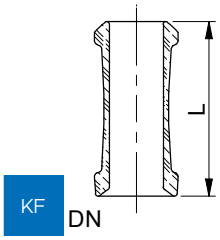
	L [mm]	Art.-No. DN15	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50
KF-System	75	PP015/0075-K	PP025/0075-K	-	-
	100	PP015/0100-K	PP025/0100-K	PP040/0100-K	PP050/0100-K
	125	PP015/0125-K	PP025/0125-K	PP040/0125-K	PP050/0125-K
	150	PP015/0150-K	PP025/0150-K	PP040/0150-K	PP050/0150-K
	175	PP015/0175-K	PP025/0175-K	PP040/0175-K	PP050/0175-K
	200	PP015/0200-K	PP025/0200-K	PP040/0200-K	PP050/0200-K
	250	PP015/0250-K	PP025/0250-K	PP040/0250-K	PP050/0250-K
	300	PP015/0300-K	PP025/0300-K	PP040/0300-K	PP050/0300-K
	400	PP015/0400-K	PP025/0400-K	PP040/0400-K	PP050/0400-K
	500	PP015/0500-K	PP025/0500-K	PP040/0500-K	PP050/0500-K
	700	PP015/0700-K	PP025/0700-K	PP040/0700-K	PP050/0700-K
	1000	PP015/1000-K	PP025/1000-K	PP040/1000-K	PP050/1000-K
	1500	PP015/1500-K	PP025/1500-K	PP040/1500-K	PP050/1500-K
	2000	PP015/2000-K	PP025/2000-K	PP040/2000-K	PP050/2000-K
PF-System	75	PP015/0075-P	PP025/0075-P	-	-
	100	PP015/0100-P	PP025/0100-P	PP040/0100-P	PP050/0100-P
	125	PP015/0125-P	PP025/0125-P	PP040/0125-P	PP050/0125-P
	150	PP015/0150-P	PP025/0150-P	PP040/0150-P	PP050/0150-P
	175	PP015/0175-P	PP025/0175-P	PP040/0175-P	PP050/0175-P
	200	PP015/0200-P	PP025/0200-P	PP040/0200-P	PP050/0200-P
	250	PP015/0250-P	PP025/0250-P	PP040/0250-P	PP050/0250-P
	300	PP015/0300-P	PP025/0300-P	PP040/0300-P	PP050/0300-P
	400	PP015/0400-P	PP025/0400-P	PP040/0400-P	PP050/0400-P
	500	*PP015/0500-P*	*PP025/0500-P*	*PP040/0500-P*	*PP050/0500-P*
	700	*PP015/0700-P*	*PP025/0700-P*	*PP040/0700-P*	*PP050/0700-P*
	1000	*PP015/1000-P*	*PP025/1000-P*	*PP040/1000-P*	*PP050/1000-P*
	1500	*PP015/1500-P*	*PP025/1500-P*	*PP040/1500-P*	*PP050/1500-P*
	2000	*PP015/2000-P*	*PP025/2000-P*	*PP040/2000-P*	*PP050/2000-P*

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PP050/0500-K-C3 *Coating dissipative -C3 - Example PP050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PP050/0500-K-C4 *Coating UV protection brown -C4 - Example PP050/0500-K-C4*
	Sonderflanschkombination -F.. - Beispiel PP050/0500-F13 *Custom flange combination -F.. - Example PP050/0500-F13*

	L [mm]	Art.-No. DN80	Art.-No. DN100	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300
KF-System	75	-	-	-	-	-
	100	-	-	-	-	-
	125	PP080/0125-K	PP100/0125-K	-	-	-
	150	PP080/0150-K	PP100/0150-K	PP150/0150-K	PP200/0150-K	-
	175	PP080/0175-K	PP100/0175-K	PP150/0175-K	PP200/0175-K	-
	200	PP080/0200-K	PP100/0200-K	PP150/0200-K	PP200/0200-K	PP300/0200-K
	250	PP080/0250-K	PP100/0250-K	PP150/0250-K	-	-
	300	PP080/0300-K	PP100/0300-K	PP150/0300-K	PP200/0300-K	PP300/0300-K
	400	PP080/0400-K	PP100/0400-K	PP150/0400-K	PP200/0400-K	PP300/0400-K
	500	PP080/0500-K	PP100/0500-K	PP150/0500-K	PP200/0500-K	PP300/0500-K
	700	PP080/0700-K	PP100/0700-K	PP150/0700-K	PP200/0700-K	PP300/0700-K
	1000	PP080/1000-K	PP100/1000-K	PP150/1000-K	PP200/1000-K	PP300/1000-K
	1500	PP080/1500-K	PP100/1500-K	PP150/1500-K	PP200/1500-K	PP300/1500-K
	2000	PP080/2000-K	PP100/2000-K	PP150/2000-K	PP200/2000-K	PP300/2000-K
PF-System	75	-	-	-		
	100	-	-	-		
	125	PP080/0125-P	-	-		
	150	PP080/0150-P	PP100/0150-P	PP150/0150-P		
	175	PP080/0175-P	PP100/0175-P	PP150/0175-P		
	200	PP080/0200-P	PP100/0200-P	PP150/0200-P		
	250	PP080/0250-P	PP100/0250-P	PP150/0250-P		
	300	PP080/0300-P	PP100/0300-P	PP150/0300-P		
	400	PP080/0400-P	PP100/0400-P	PP150/0400-P		
	500	*PP080/0500-P*	*PP100/0500-P*	*PP150/0500-P*		
	700	*PP080/0700-P*	*PP100/0700-P*	*PP150/0700-P*		
	1000	*PP080/1000-P*	*PP100/1000-P*	*PP150/1000-P*		
	1500	*PP080/1500-P*	*PP100/1500-P*	*PP150/1500-P*		
	2000	*PP080/2000-P*	*PP100/2000-P*	*PP150/2000-P*		

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PP050/0500-K-C3 *Coating dissipative -C3 - Example PP050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PP050/0500-K-C4 *Coating UV protection brown -C4 - Example PP050/0500-K-C4*
	Sonderflanschkombination -F.. - Beispiel PP050/0500-F13 *Custom flange combination -F.. - Example PP050/0500-F13*



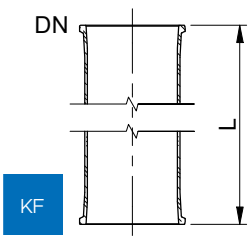


Rohr

- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet
- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel „Technische Informationen"
- KF: Flansche ausgeführt wie in Zeichnung mit KF-Kugel und KF-Pfanne
- Maximale Länge 2.000 mm
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1barg DN200-300, -1...+0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

Pipe

- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *More detailed information on laying can be found in the chapter „Technical Information"*
- *KF: Flanges designed as in drawing with KF ball and KF cup*
- *Maximum length 2.000 mm*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1barg DN200-300, -1...+0,5 barg DN400-600
- *Material product contacting: borosilicate glass 3.3*



Rohr, Enden plan, KF

Pipe, flat flange, KF

	L [mm]	Art.-No. DN15	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50	Art.-No. DN80	Art.-No. DN100
KF-System	75	PP015/0075-F33	PP025/0075-F33	-	-	-	-
	100	PP015/0100-F33	PP025/0100-F33	PP040/0100-F33	PP050/0100-F33	-	-
	125	PP015/0125-F33	PP025/0125-F33	PP040/0125-F33	PP050/0125-F33	PP080/0125-F33	PP100/0125-F33
	150	PP015/0150-F33	PP025/0150-F33	PP040/0150-F33	PP050/0150-F33	PP080/0150-F33	PP100/0150-F33
	175	PP015/0175-F33	PP025/0175-F33	PP040/0175-F33	PP050/0175-F33	PP080/0175-F33	PP100/0175-F33
	200	PP015/0200-F33	PP025/0200-F33	PP040/0200-F33	PP050/0200-F33	PP080/0200-F33	PP100/0200-F33
	250	PP015/0250-F33	PP025/0250-F33	PP040/0250-F33	PP050/0250-F33	PP080/0250-F33	PP100/0250-F33
	300	PP015/0300-F33	PP025/0300-F33	PP040/0300-F33	PP050/0300-F33	PP080/0300-F33	PP100/0300-F33
	400	PP015/0400-F33	PP025/0400-F33	PP040/0400-F33	PP050/0400-F33	PP080/0400-F33	PP100/0400-F33
	500	PP015/0500-F33	PP025/0500-F33	PP040/0500-F33	PP050/0500-F33	PP080/0500-F33	PP100/0500-F33
	700	PP015/0700-F33	PP025/0700-F33	PP040/0700-F33	PP050/0700-F33	PP080/0700-F33	PP100/0700-F33
	1000	PP015/1000-F33	PP025/1000-F33	PP040/1000-F33	PP050/1000-F33	PP080/1000-F33	PP100/1000-F33
	1500	PP015/1500-F33	PP025/1500-F33	PP040/1500-F33	PP050/1500-F33	PP080/1500-F33	PP100/1500-F33
	2000	PP015/2000-F33	PP025/2000-F33	PP040/2000-F33	PP050/2000-F33	PP080/2000-F33	PP100/2000-F33

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PP050/0500-F33-C3 *Coating dissipative -C3 - Example PP050/0500-F33-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PP050/0500-F33-C4 *Coating UV protection brown -C4 - Example PP050/0500-F33-C4*

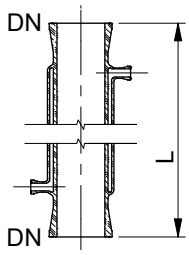
	L [mm]	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300	Art.-No. DN400	Art.-No. DN450	Art.-No. DN600
KF-System	75	-	-	-	-	-	-
	100	-	-	-	-	-	-
	125	-	-	-	-	-	-
	150	PP150/0150-F33	PP200/0150-F33	-	-	-	-
	175	PP150/0175-F33	PP200/0175-F33	-	-	-	-
	200	PP150/0200-F33	PP200/0200-F33	PP300/0200-F33	-	-	-
	250	PP150/0250-F33	-	-	-	-	-
	300	PP150/0300-F33	PP200/0300-F33	PP300/0300-F33	-	-	-
	400	PP150/0400-F33	PP200/0400-F33	PP300/0400-F33	-	-	-
	500	PP150/0500-F33	PP200/0500-F33	PP300/0500-F33	PP400/0500-F33	PP450/0500-F33	PP600/0500-F33
	700	PP150/0700-F33	PP200/0700-F33	PP300/0700-F33	-	-	-
	1000	PP150/1000-F33	PP200/1000-F33	PP300/1000-F33	PP400/1000-F33	PP450/1000-F33	PP600/1000-F33
	1500	PP150/1500-F33	PP200/1500-F33	PP300/1500-F33	PP400/1500-F33	PP450/1500-F33	PP600/1500-F33
	2000	PP150/2000-F33	PP200/2000-F33	PP300/2000-F33	PP400/2000-F33	PP450/2000-F33	PP600/2000-F33

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PP050/0500-F33-C3 *Coating dissipative -C3 - Example PP050/0500-F33-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PP050/0500-F33-C4 *Coating UV protection brown -C4 - Example PP050/0500-F33-C4*

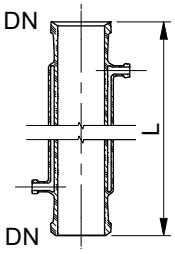
- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet
- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel ‚Technische Informationen"
- Flansche ausschließlich als KF-Plan ausgeführt
- Maximale Länge 2.000 mm
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300,
  -1...+0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *Further information on laying can be found in the chapter ‚Technical Information"*
- *Flanges designed exclusively as KF plan*
- *Maximum length 2.000 mm*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300,
  -1...+0,5 barg DN400-600
- *Material product contacting: borosilicate glass 3.3*

PF



KF



Mantelrohr, außen

Jacketed pipe, outside

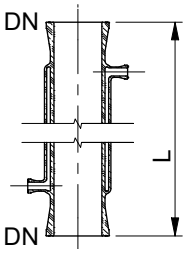
	L [mm]	Art.-No. DN15	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50
KF-System	100	PPJ015/0100-K	PPJ025/0100-K	-	-
	125	PPJ015/0125-K	PPJ025/0125-K	-	-
	150	PPJ015/0150-K	PPJ025/0150-K	PPJ040/0150-K	PPJ050/0150-K
	175	PPJ015/0175-K	PPJ025/0175-K	PPJ040/0175-K	PPJ050/0175-K
	200	PPJ015/0200-K	PPJ025/0200-K	PPJ040/0200-K	PPJ050/0200-K
	250	PPJ015/0250-K	PPJ025/0250-K	PPJ040/0250-K	PPJ050/0250-K
	300	PPJ015/0300-K	PPJ025/0300-K	PPJ040/0300-K	PPJ050/0300-K
	400	PPJ015/0400-K	PPJ025/0400-K	PPJ040/0400-K	PPJ050/0400-K
	500	PPJ015/0500-K	PPJ025/0500-K	PPJ040/0500-K	PPJ050/0500-K
	700	PPJ015/0700-K	PPJ025/0700-K	PPJ040/0700-K	PPJ050/0700-K
	1000	PPJ015/1000-K	PPJ025/1000-K	PPJ040/1000-K	PPJ050/1000-K
PF-System	100	PPJ015/0100-P	PPJ025/0100-P	-	-
	125	PPJ015/0125-P	PPJ025/0125-P	-	-
	150	PPJ015/0150-P	PPJ025/0150-P	PPJ040/0150-P	PPJ050/0150-P
	175	PPJ015/0175-P	PPJ025/0175-P	PPJ040/0175-P	PPJ050/0175-P
	200	PPJ015/0200-P	PPJ025/0200-P	PPJ040/0200-P	PPJ050/0200-P
	250	PPJ015/0250-P	PPJ025/0250-P	PPJ040/0250-P	PPJ050/0250-P
	300	PPJ015/0300-P	PPJ025/0300-P	PPJ040/0300-P	PPJ050/0300-P
	400	PPJ015/0400-P	PPJ025/0400-P	PPJ040/0400-P	PPJ050/0400-P
	500	PPJ015/0500-P	PPJ025/0500-P	PPJ040/0500-P	PPJ050/0500-P
	700	PPJ015/0700-P	PPJ025/0700-P	PPJ040/0700-P	PPJ050/0700-P
	1000	PPJ015/1000-P	PPJ025/1000-P	PPJ040/1000-P	PPJ050/1000-P

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PPJ050/0500-K-C3 *Coating dissipative -C3 - Example PPJ050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJ050/0500-K-C4 *Coating UV protection brown -C4 - Example PPJ050/0500-K-C4*
	Sonderflanschkombination -F.. - Beispiel PPJ050/0500-F13 *Custom flange combination -F.. - Example PPJ050/0500-F13*

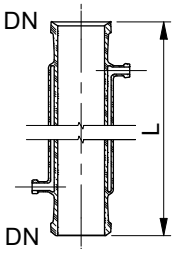
	L [mm]	Art.-No. DN80	Art.-No. DN100	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300
KF-System	100	-	-	-	-	-
	125	-	-	-	-	-
	150	PPJ080/0150-K	-	-	-	-
	175	PPJ080/0175-K	-	-	-	-
	200	PPJ080/0200-K	PPJ100/0200-K	-	-	-
	250	PPJ080/0250-K	PPJ100/0250-K	-	-	-
	300	PPJ080/0300-K	PPJ100/0300-K	PPJ150/0300-K	PPJ200/0300-K	PPJ300/0300-K
	400	PPJ080/0400-K	PPJ100/0400-K	PPJ150/0400-K	PPJ200/0400-K	PPJ300/0400-K
	500	PPJ080/0500-K	PPJ100/0500-K	PPJ150/0500-K	PPJ200/0500-K	PPJ300/0500-K
	700	PPJ080/0700-K	PPJ100/0700-K	PPJ150/0700-K	PPJ200/0700-K	PPJ300/0700-K
	1000	PPJ080/1000-K	PPJ100/1000-K	PPJ150/1000-K	PPJ200/1000-K	PPJ300/1000-K
PF-System	100	-	-	-		
	125	-	-	-		
	150	PPJ080/0150-P	-	-		
	175	PPJ080/0175-P	-	-		
	200	PPJ080/0200-P	PPJ100/0200-P	PPJ150/0200-P		
	250	PPJ080/0250-P	PPJ100/0250-P	PPJ150/0250-P		
	300	PPJ080/0300-P	PPJ100/0300-P	PPJ150/0300-P		
	400	PPJ080/0400-P	PPJ100/0400-P	PPJ150/0400-P		
	500	PPJ080/0500-P	PPJ100/0500-P	PPJ150/0500-P		
	700	PPJ080/0700-P	PPJ100/0700-P	PPJ150/0700-P		
	1000	PPJ080/1000-P	PPJ100/1000-P	PPJ150/1000-P		

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJ050/0500-K-C3 *Coating dissipative -C3 - Example PPJ050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJ050/0500-K-C4 *Coating UV protection brown -C4 - Example PPJ050/0500-K-C4*
	Sonderflanschkombination -F.. - Beispiel PPJ050/0500-F13 *Custom flange combination -F.. - Example PPJ050/0500-F13*

PF



KF



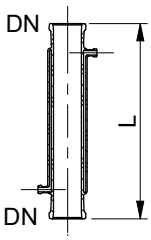
Mantelrohr, außen

- Werden eingesetzt wenn Flüssigkeiten in der Rohrleitung temperiert werden müssen
- Die Rohre sind außen gemantelt, wodurch sich der Innendurchmesser nicht verändert
- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet
- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel ‚Technische Informationen"
- KF: Flansche ausgeführt wie in Zeichnung mit KF-Kugel und KF-Pfanne
- Maximal Länge 2.000 mm
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600
- Material produktberührend: Borosilikatglas 3.3

Jacketed pipe, outside

- *Used when liquids in the pipeline must be tempered*
- *The pipes are jacketed on the outside, which does not change the inside diameter*
- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *For more information on laying, see the chapter ‚Technical Information"*
- *KF: Flanges designed as in drawing with KF ball and KF cup*
- *Maximum length 2.000 mm*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600*
- *Material product contacting: borosilicate glass 3.3*

KF



Mantelrohr, außen, Enden plan, KF

Jacketed pipe, outside, flat flange, KF

	L [mm]	Art.-No. DN15	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50	Art.-No. DN80	Art.-No. DN100
KF-System	100	PPJ015/0100-F33	PPJ025/0100-F33	-	-	-	-
	125	PPJ015/0125-F33	PPJ025/0125-F33	-	-	-	-
	150	PPJ015/0150-F33	PPJ025/0150-F33	PPJ040/0150-F33	PPJ050/0150-F33	PPJ080/0150-F33	-
	175	PPJ015/0175-F33	PPJ025/0175-F33	PPJ040/0175-F33	PPJ050/0175-F33	PPJ080/0175-F33	-
	200	PPJ015/0200-F33	PPJ025/0200-F33	PPJ040/0200-F33	PPJ050/0200-F33	PPJ080/0200-F33	PPJ100/0200-F33
	250	PPJ015/0250-F33	PPJ025/0250-F33	PPJ040/0250-F33	PPJ050/0250-F33	PPJ080/0250-F33	PPJ100/0250-F33
	300	PPJ015/0300-F33	PPJ025/0300-F33	PPJ040/0300-F33	PPJ050/0300-F33	PPJ080/0300-F33	PPJ100/0300-F33
	400	PPJ015/0400-F33	PPJ025/0400-F33	PPJ040/0400-F33	PPJ050/0400-F33	PPJ080/0400-F33	PPJ100/0400-F33
	500	PPJ015/0500-F33	PPJ025/0500-F33	PPJ040/0500-F33	PPJ050/0500-F33	PPJ080/0500-F33	PPJ100/0500-F33
	700	PPJ015/0700-F33	PPJ025/0700-F33	PPJ040/0700-F33	PPJ050/0700-F33	PPJ080/0700-F33	PPJ100/0700-F33
	1000	PPJ015/1000-F33	PPJ025/1000-F33	PPJ040/1000-F33	PPJ050/1000-F33	PPJ080/1000-F33	PPJ100/1000-F33

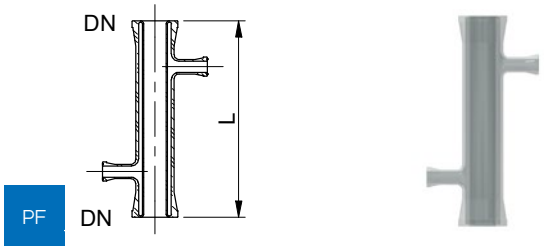
Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PPJ050/500-K-C3 *Coating dissipative -C3 - Example PPJ050/500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJ050/500-K-C4 *Coating UV protection brown -C4 - Example PPJ050/500-K-C4*

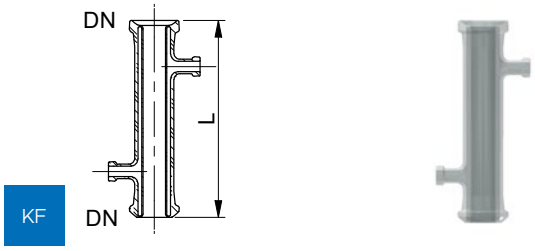
	L [mm]	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300	Art.-No. DN400	Art.-No. DN450	Art.-No. DN600
KF-System	100	-	-	-	-	-	-
	125	-	-	-	-	-	-
	150	-	-	-	-	-	-
	175	-	-	-	-	-	-
	200	-	-	-	-	-	-
	250	-	-	-	-	-	-
	300	PPJ150/0300-F33	PPJ200/0300-F33	PPJ300/0300-F33	-	-	-
	400	PPJ150/0400-F33	PPJ200/0400-F33	PPJ300/0400-F33	-	-	-
	500	PPJ150/0500-F33	PPJ200/0500-F33	PPJ300/0500-F33	PP400/0500-F33	PP450/0500-F33	PP600/0500-F33
	700	PPJ150/0700-F33	PPJ200/0700-F33	PPJ300/0700-F33	-	PP450/0700-F33	-
	1000	PPJ150/1000-F33	PPJ200/1000-F33	PPJ300/1000-F33	PP400/1000-F33	PP450/1000-F33	PP600/1000-F33

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJ050/500-K-C3 *Coating dissipative -C3 - Example PPJ050/500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJ050/500-K-C4 *Coating UV protection brown -C4 - Example PPJ050/500-K-C4*

- Werden eingesetzt wenn Flüssigkeiten in der Rohrleitung temperiert werden müssen
- Die Rohre sind außen gemantelt, wodurch sich der Innendurchmesser nicht verändert
- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet
- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel „Technische Informationen"
- Flansche ausschließlich als KF-Plan ausgeführt
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600
- Material produktberührend: Borosilikatglas 3.3

- *Used when liquids in the pipeline must be tempered*
- *The pipes are jacketed on the outside, which does not change the inner diameter*
- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *More detailed information on laying can be found in the chapter „Technical Information"*
- *Flanges designed exclusively as KF plan*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600*
- *Material product contacting: borosilicate glass 3.3*





Mantelrohr, innen

Jacketed pipe, inside

	L [mm]	Art.-No. DN15	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50
KF-System	150	PPJI015/0150-K	PPJI025/0150-K	PPJI040/0150-K	PPJI050/0150-K
	175	PPJI015/0175-K	PPJI025/0175-K	PPJI040/0175-K	PPJI050/0175-K
	200	PPJI015/0200-K	PPJI025/0200-K	PPJI040/0200-K	PPJI050/0200-K
	250	PPJI015/0250-K	PPJI025/0250-K	PPJI040/0250-K	PPJI050/0250-K
	300	PPJI015/0300-K	PPJI025/0300-K	PPJI040/0300-K	PPJI050/0300-K
	400	PPJI015/0400-K	PPJI025/0400-K	PPJI040/0400-K	PPJI050/0400-K
	500	PPJI015/0500-K	PPJI025/0500-K	PPJI040/0500-K	PPJI050/0500-K
	700	PPJI015/0700-K	PPJI025/0700-K	PPJI040/0700-K	PPJI050/0700-K
PF-System	150	PPJI015/0150-P	PPJI025/0150-P	PPJI040/0150-P	PPJI050/0150-P
	175	PPJI015/0175-P	PPJI025/0175-P	PPJI040/0175-P	PPJI050/0175-P
	200	PPJI015/0200-P	PPJI025/0200-P	PPJI040/0200-P	PPJI050/0200-P
	250	PPJI015/0250-P	PPJI025/0250-P	PPJI040/0250-P	PPJI050/0250-P
	300	PPJI015/0300-P	PPJI025/0300-P	PPJI040/0300-P	PPJI050/0300-P
	400	PPJI015/0400-P	PPJI025/0400-P	PPJI040/0400-P	PPJI050/0400-P
	500	PPJI015/0500-P	PPJI025/0500-P	PPJI040/0500-P	PPJI050/0500-P
	700	PPJI015/0700-P	PPJI025/0700-P	PPJI040/0700-P	PPJI050/0700-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJI050/0500-K-C3 *Coating dissipative -C3 - Example PPJI050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJI050/0500-K-C4 *Coating UV protection brown -C4 - Example PPJI050/0500-K-C4*
	Sonderflanschkombination -F.. - Beispiel PPJI050/0500-F13 *Custom flange combination -F.. - Example PPJI050/0500-F13*

- Werden eingesetzt wenn Flüssigkeiten in der Rohrleitung temperiert werden müssen
- Die Rohre sind nach Innen gemantelt, wodurch sich der Innendurchmesser verändert und nicht der Nennweite des Flansch entspricht
- Dadurch wird eine bessere Temperierung bis in den Flansch erreicht
- Innendurchmesser: DN015 - 8 mm, DN025 - 16 mm, bis DN300 - 270 mm
- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet

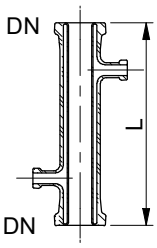
- *Used when liquids in the pipeline have to be tempered*
- *The pipes are internally jacketed, which changes the inner diameter and does not correspond to the nominal diameter of the flange*
- *This results in a better tempering right up to the flange*
- *Inner diameter:* DN015 - 8 mm, DN025 - 16 mm, bis DN300 - 270 mm
- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*

	L [mm]	Art.-No. DN80	Art.-No. DN100	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300
KF-System	150	-	-	-	-	-
	175	-	-	-	-	-
	200	-	-	-	-	-
	250	-	-	-	-	-
	300	PPJI080/0300-K	PPJI100/0300-K	PPJI150/0300-K	PPJI200/0300-K	PPJI300/0300-K
	400	PPJI080/0400-K	PPJI100/0400-K	PPJI150/0400-K	PPJI200/0400-K	PPJI300/0400-K
	500	PPJI080/0500-K	PPJI100/0500-K	PPJI150/0500-K	PPJI200/0500-K	PPJI300/0500-K
	700	PPJI080/0700-K	PPJI100/0700-K	PPJI150/0700-K	PPJI200/0700-K	PPJI300/0700-K
PF-System	150	-	-	-		
	175	-	-	-		
	200	-	-	-		
	250	-	-	-		
	300	PPJI080/0300-P	PPJI100/0300-P	PPJI150/0300-P		
	400	PPJI080/0400-P	PPJI100/0400-P	PPJI150/0400-P		
	500	PPJI080/0500-P	PPJI100/0500-P	PPJI150/0500-P		
	700	PPJI080/0700-P	PPJI100/0700-P	PPJI150/0700-P		

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJI050/0500-K-C3 *Coating dissipative -C3 - Example PPJI050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJI050/0500-K-C4 *Coating UV protection brown -C4 - Example PPJI050/0500-K-C4*
	Sonderflanschkombination -F.. - Beispiel PPJI050/0500-F13 *Custom flange combination -F.. - Example PPJI050/0500-F13*

- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel ‚Technische Informationen"
- KF: Flansche ausgeführt wie in Zeichnung mit KF-Kugel und KF-Pfanne
- PF: innen gemantelte Flansche sind ausgeführt ohne Nut
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600
- Material produktberührend: Borosilikatglas 3.3

- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *More detailed information on laying can be found in the chapter ‚Technical Information"*
- *KF: Flanges designed as in drawing with KF ball and KF cup*
- *PF: inside jacketed flanges are designed without groove*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600*
- *Material product contacting: borosilicate glass 3.3*



KF

Mantelrohr, innen, Enden plan, KF

Jacketed pipe, inside, flat flange, KF

	L [mm]	Art.-No. DN15	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50	Art.-No. DN80
KF-System	150	PPJI015/0150-F33	PPJI025/0150-F33	PPJI040/0150-F33	PPJI050/0150-F33	-
	175	PPJI015/0175-F33	PPJI025/0175-F33	PPJI040/0175-F33	PPJI050/0175-F33	-
	200	PPJI015/0200-F33	PPJI025/0200-F33	PPJI040/0200-F33	PPJI050/0200-F33	-
	250	PPJI015/0250-F33	PPJI025/0250-F33	PPJI040/0250-F33	PPJI050/0250-F33	-
	300	PPJI015/0300-F33	PPJI025/0300-F33	PPJI040/0300-F33	PPJI050/0300-F33	PPJI080/0300-F33
	400	PPJI015/0400-F33	PPJI025/0400-F33	PPJI040/0400-F33	PPJI050/0400-F33	PPJI080/0400-F33
	500	PPJI015/0500-F33	PPJI025/0500-F33	PPJI040/0500-F33	PPJI050/0500-F33	PPJI080/0500-F33
	700	PPJI015/0700-F33	PPJI025/0700-F33	PPJI040/0700-F33	PPJI050/0700-F33	PPJI080/0700-F33

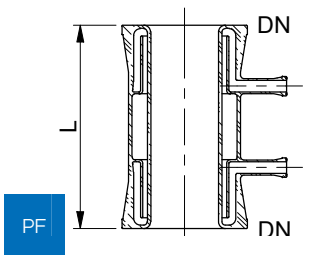
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJI050/0500-K-C3 *Coating dissipative -C3 - Example PPJI050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJI050/0500-K-C4 *Coating UV protection brown -C4 - Example PPJI050/0500-K-C4*

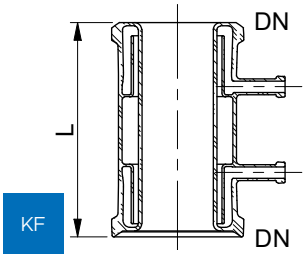
	L [mm]	Art.-No. DN100	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300
KF-System	150	-	-	-	-
	175	-	-	-	-
	200	-	-	-	-
	250	-	-	-	-
	300	PPJI100/0300-F33	PPJI150/0300-F33	PPJI200/0300-F33	PPJI300/0300-F33
	400	PPJI100/0400-F33	PPJI150/0400-F33	PPJI200/0400-F33	PPJI300/0400-F33
	500	PPJI100/0500-F33	PPJI150/0500-F33	PPJI200/0500-F33	PPJI300/0500-F33
	700	PPJI100/0700-F33	PPJI150/0700-F33	PPJI200/0700-F33	PPJI300/0700-F33

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJI050/0500-K-C3 *Coating dissipative -C3 - Example PPJI050/0500-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJI050/0500-K-C4 *Coating UV protection brown -C4 - Example PPJI050/0500-K-C4*

- Werden eingesetzt wenn Flüssigkeiten in der Rohrleitung temperiert werden müssen
- Die Rohre sind nach Innen gemantelt, wodurch sich der Innendurchmesser verändert und nicht der Nennweite des Flansch entspricht
- Dadurch wird eine bessere Temperierung bis in den Flansch erreicht
- Innendurchmesser: DN015 - 8 mm, DN025 - 16 mm, bis DN300 - 270 mm
- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet
- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel „Technische Informationen"
- Flansche ausschließlich als KF-Plan ausgeführt
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600
- Material produktberührend: Borosilikatglas 3.3

- *Used when liquids in the pipeline must be tempered*
- *The pipes are internally jacketed, which changes the inner diameter and does not correspond to the nominal diameter of the flange*
- *This results in a better tempering up to the flange*
- *Inner diameter: DN015 - 8 mm, DN025 - 16 mm, bis DN300 - 270 mm*
- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *For more information on installation, please refer to the chapter „Technical Information"*
- *Flanges designed exclusively as KF plan*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+2 barg DN015-025, -1...+1 barg DN040-050, -1...0,5 barg DN080-DN600*
- *Material product contacting: borosilicate glass 3.3*





Mantelrohr, innen, Umlenker

Jacketed pipe, inside, baffle

	L [mm]	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50	Art.-No. DN80
KF-System	200	PPJF025/0200-K	PPJF040/0200-K	PPJF050/0200-K	-
	250	PPJF025/0250-K	PPJF040/0250-K	PPJF050/0250-K	-
	300	PPJF025/0300-K	PPJF040/0300-K	PPJF050/0300-K	PPJF080/0300-K
	400	PPJF025/0400-K	PPJF040/0400-K	PPJF050/0400-K	PPJF080/0400-K
	500	PPJF025/0500-K	PPJF040/0500-K	PPJF050/0500-K	PPJF080/0500-K
	700	PPJF025/0700-K	PPJF040/0700-K	PPJF050/0700-K	PPJF080/0700-K
PF-System	200	PPJF025/0200-P	PPJF040/0200-P	PPJF050/0200-P	-
	250	PPJF025/0250-P	PPJF040/0250-P	PPJF050/0250-P	-
	300	PPJF025/0300-P	PPJF040/0300-P	PPJF050/0300-P	PPJF080/0300-P
	400	PPJF025/0400-P	PPJF040/0400-P	PPJF050/0400-P	PPJF080/0400-P
	500	PPJF025/0500-P	PPJF040/0500-P	PPJF050/0500-P	PPJF080/0500-P
	700	PPJF025/0700-P	PPJF040/0700-P	PPJF050/0700-P	PPJF080/0700-P

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PPJF050/0500-K-C3 Coating dissipative -C3 - Example PPJF050/0500-K-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJF050/0500-K-C4 Coating UV protection brown -C4 - Example PPJF050/0500-K-C4
	Sonderflanschkombination -F.. - Beispiel PPJF050/0500-F13 Custom flange combination -F.. - Example PPJF050/0500-F13

- Werden eingesetzt wenn Flüssigkeiten in der Rohrleitung temperiert werden müssen
- Die Rohre sind nach Innen gemantelt, wodurch sich der Innendurchmesser verändert und nicht der Nennweite des Flansch entspricht
- Durch die Umlenker wird eine temperierung Temperierung bis in den Flansch erreicht
- Innendurchmesser: DN025 - 8 mm, bis DN300 - 250 mm
- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet
- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel ‚Technische Informationen"

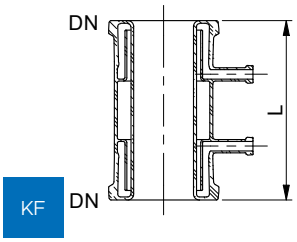
- *Used when liquids in the pipeline have to be tempered*
- *The pipes are internally jacketed, which changes the inner diameter and does not correspond to the nominal diameter of the flange*
- *The build in baffles results in a optimum of tempering right up to the flange*
- *Inner diameter: DN025 - 8 mm, bis DN300 - 250 mm*
- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *More detailed information on laying can be found in the chapter "Technical Information"*

	L [mm]	Art.-No. DN100	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300
KF-System	200	-	-	-	-
	250	-	-	-	-
	300	PPJF100/0300-K	PPJF150/0300-K	PPJF200/0300-K	PPJF300/0300-K
	400	PPJF100/0400-K	PPJF150/0400-K	PPJF200/0400-K	PPJF300/0400-K
	500	PPJF100/0500-K	PPJF150/0500-K	PPJF200/0500-K	PPJF300/0500-K
	700	PPJF100/0700-K	PPJF150/0700-K	PPJF200/0700-K	PPJF300/0700-K
PF-System	200	-	-		
	250	-	-		
	300	PPJF100/0300-P	PPJF150/0300-P		
	400	PPJF100/0400-P	PPJF150/0400-P		
	500	PPJF100/0500-P	PPJF150/0500-P		
	700	PPJF100/0700-P	PPJF150/0700-P		

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJF050/0500-K-C3 Coating dissipative -C3 - Example PPJF050/0500-K-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJF050/0500-K-C4 Coating UV protection brown -C4 - Example PPJF050/0500-K-C4
	Sonderflanschkombination -F.. - Beispiel PPJF050/0500-F13 Custom flange combination -F.. - Example PPJF050/0500-F13

- KF: Flansche ausgeführt wie in Zeichnung mit KF-Kugel und KF-Pfanne
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:-1...+6 barg DN025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1barg DN200-300, -1...+0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

- *KF: Flanges designed as in drawing with KF ball and KF cup*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1barg DN200-300, -1...+0,5 barg DN400-600*
- *Material product contacting: borosilicate glass 3.3*



KF

Mantelrohr, innen, Umlenker, Enden plan, KF

Jacketed pipe, inside, baffle, flat flange, KF

	L [mm]	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50	Art.-No. DN80
KF-System	200	PPJF025/0200-F33	PPJF040/0200-F33	PPJF050/0200-F33	-
	250	PPJF025/0250-F33	PPJF040/0250-F33	PPJF050/0250-F33	-
	300	PPJF025/0300-F33	PPJF040/0300-F33	PPJF050/0300-F33	PPJF080/0300-F33
	400	PPJF025/0400-F33	PPJF040/0400-F33	PPJF050/0400-F33	PPJF080/0400-F33
	500	PPJF025/0500-F33	PPJF040/0500-F33	PPJF050/0500-F33	PPJF080/0500-F33
	700	PPJF025/0700-F33	PPJF040/0700-F33	PPJF050/0700-F33	PPJF080/0700-F33

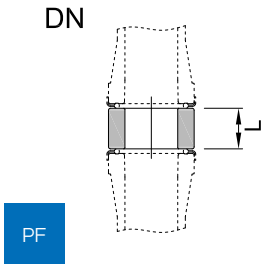
Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PPJF050/0500-K-C3 Coating dissipative -C3 - Example PPJF050/0500-K-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJF050/0500-K-C4 Coating UV protection brown -C4 - Example PPJF050/0500-K-C4

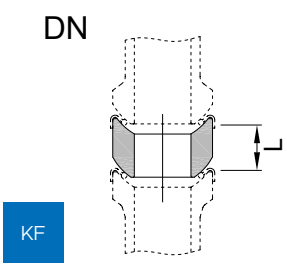
	L [mm]	Art.-No. DN100	Art.-No. DN150	Art.-No. DN200	Art.-No. DN300
KF-System	200	-	-	-	-
	250	-	-	-	-
	300	PPJF100/0300-F33	PPJF150/0300-F33	PPJF200/0300-F33	PPJF300/0300-F33
	400	PPJF100/0400-F33	PPJF150/0400-F33	PPJF200/0400-F33	PPJF300/0400-F33
	500	PPJF100/0500-F33	PPJF150/0500-F33	PPJF200/0500-F33	PPJF300/0500-F33
	700	PPJF100/0700-F33	PPJF150/0700-F33	PPJF200/0700-F33	PPJF300/0700-F33

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PPJF050/0500-K-C3 Coating dissipative -C3 - Example PPJF050/0500-K-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PPJF050/0500-K-C4 Coating UV protection brown -C4 - Example PPJF050/0500-K-C4

- Werden eingesetzt wenn Flüssigkeiten in der Rohrleitung temperiert werden müssen
- Die Rohre sind nach Innen gemantelt, wodurch sich der Innendurchmesser verändert und nicht der Nennweite des Flansch entspricht
- Durch die Umlenker wird eine temperierung Temperierung bis in den Flansch erreicht
- Innendurchmesser: DN015 ... mm, DN025 ... mm, bis DN300 ... mm
- Horizontal verlegte Rohre werden zusätzlich zu Ihrem Eigengewicht mit dem Flüssigkeitsinhalt belastet
- Um diese Belastung gleichmäßig zu verteilen ist eine entsprechende Anzahl von Halterungen vorzusehen
- Nähere Informationen zur Verlegung befinden sich im Kapitel ‚Technische Informationen"
- KF: Flansche ausgeführt wie in Zeichnung mit KF-Kugel und KF-Pfanne
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:-1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1barg DN200-300, -1...+0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

- *Used when liquids in the pipeline have to be tempered*
- *The pipes are internally jacketed, which changes the inner diameter and does not correspond to the nominal diameter of the flange*
- *The build in baffles results in a optimum of tempering right up to the flange*
- *Inner diameter: DN015 ... mm, DN025 ... mm, bis DN300 ... mm*
- *Horizontally laid pipes are loaded with the liquid content in addition to their own weight*
- *In order to distribute this load evenly, an appropriate number of supports must be provided*
- *More detailed information on laying can be found in the chapter "Technical Information"*
- *KF: Flanges designed as in drawing with KF ball and KF cup*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1barg DN200-300, -1...+0,5 barg DN400-600*
- *Material product contacting: borosilicate glass 3.3*





Zwischenstück

Spacer

	L [mm]	Art.-Nr. DN15	Art.-No. DN25	Art.-No. DN40	Art.-No. DN50
KF-System	25	PDG015/025-K	PDG025/025-K	PDG040/025-K	PDG050/025-K
	50	PDG015/050-K	PDG025/050-K	PDG040/050-K	PDG050/050-K
	25	PDG015/025-F11	PDG025/025-F11	PDG040/025-F11	PDG050/025-F11
	50	PDG015/050-F11	PDG025/050-F11	PDG040/050-F11	PDG050/050-F11
	25	PDG015/025-F22	PDG025/025-F22	PDG040/025-F22	PDG050/025-F22
	50	PDG015/050-F22	PDG025/050-F22	PDG040/050-F22	PDG050/050-F22
	25	PDG015/025-F33	PDG025/025-F33	PDG040/025-F33	PDG050/025-F33
	50	PDG015/050-F33	PDG025/050-F33	PDG040/050-F33	PDG050/050-F33
	25	PDG015/025-F13	PDG025/025-F13	PDG040/025-F13	PDG050/025-F13
	50	PDG015/050-F13	PDG025/050-F13	PDG040/050-F13	PDG050/050-F13
	25	PDG015/025-F23	PDG025/025-F23	PDG040/025-F23	PDG050/025-F23
	50	PDG015/050-F23	PDG025/050-F23	PDG040/050-F23	PDG050/050-F23
PF-System	10	PDG015/010-P	PDG025/010-P	PDG040/010-P	PDG050/010-P
	15	PDG015/015-P	PDG025/015-P	PDG040/015-P	PDG050/015-P
	20	PDG015/020-P	PDG025/020-P	PDG040/020-P	PDG050/020-P
	25	PDG015/025-P	PDG025/025-P	PDG040/025-P	PDG050/025-P
	50	PDG015/050-P	PDG025/050-P	PDG040/050-P	PDG050/050-P
	75	-	-	PDG040/075-P	PDG050/075-P
	100	-	-	-	-
	125	-	-	-	-

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PDG050/025-K-C3 *Coating dissipative -C3 - Example PDG050/025-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PDG050/025-K-C4 *Coating UV protection brown -C4 - Example PDG050/025-K-C4*

- Werden dazu verwendet Längenunterschiede auszugleichen
- KF: Flansche je nach Variante mit KF-Kugel, KF-Pfanne oder KF-Plan
- KF: Kugel Pfanne bis 3° auslenkbar
- Sehr gute Abdichtung durch präzise geschliffene Dichtfläche
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Kompatibel zu Flanschen anderer Hersteller oder älteren Produkten

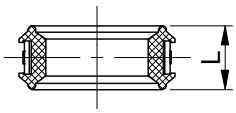
- *Used to compensate for differences in length*
- *KF: Flanges with KF ball, KF cup or KF plan, depending on the design*
- *KF: Ball cup deflectable up to 3°.*
- *Very good sealing due to precisely ground sealing surface*
- *High wall thickness for long service life and pressure stability*
- *Compatible with flanges from other manufacturers or older products*

	L [mm]	Art.-No. DN80	Art.-No. DN100	Art.-No. DN150	Art.-No. DN200
KF-System	25	-	-	-	-
	50	PDG080/050-K	PDG100/050-K	PDG150/050-K	PDG200/050-K
	25	-	-	-	
	50	PDG080/050-F11	PDG100/050-F11	PDG150/050-F11	PDG200/050-F11
	25	-	-	-	
	50	PDG080/050-F22	PDG100/050-F22	PDG150/050-F22	PDG200/050-F22
	25	-	-	-	
	50	PDG080/050-F33	PDG100/050-F33	PDG150/050-F33	PDG200/050-F33
	25	-	-	-	-
	50	PDG080/050-F13	PDG100/050-F13	PDG150/050-F13	PDG200/050-F13
	25	-	-	-	-
	50	PDG080/050-F23	PDG100/050-F23	PDG150/050-F23	PDG200/050-F23
PF-System	10	PDG080/010-P	PDG100/010-P	PDG150/010-P	-
	15	PDG080/015-P	-	-	-
	20	PDG080/020-P	PDG100/020-P	PDG150/020-P	-
	25	PDG080/025-P	-	-	-
	50	PDG080/050-P	PDG100/050-P	PDG150/050-P	PDG200/050-F33
	75	PDG080/075-P	PDG100/075-P	PDG150/075-P	-
	100	PDG080/100-P	PDG100/100-P	PDG150/100-P	PDG200/100-F33
	125	-	PDG100/125-P	PDG150/125-P	-

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PDG050/025-K-C3 *Coating dissipative -C3 - Example PDG050/025-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PDG050/025-K-C4 *Coating UV protection brown -C4 - Example PDG050/025-K-C4*

- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1 barg DN200-300, -1...+0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1 barg DN200-300, -1...+0,5 barg DN400-600*
- *Material product contacting: borosilicate glass 3.3*



KF

Zwischenstück, universell, PTFE *Spacer, universal, PTFE*

	L [mm]	Art.-No. DN15	Art.-No. DN25	Art.-No. DN40
KF-System	25	PDU015/025-K	PDU025/025-K	PDU040/025-K
	50	PDU015/050-K	PDU025/050-K	PDU040/050-K

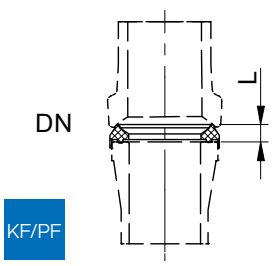
Optionen *Options*	Ableitfähig mit Erdungslasche -M2 - Beispiel PDU015/050-K-M2 *Dissipative with earthing lug -M2 - Example PDU015/050-K-M2*

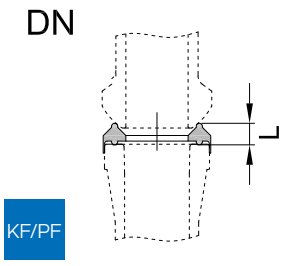
	L [mm]	Art.-No. DN50	Art.-No. DN80	Art.-No. DN100	Art.-No. DN150
KF-System	25	PDU050/025-K	-	-	-
	50	PDU050/050-K	PDU080/050-K	PDU100/050-K	PDU150/050-K

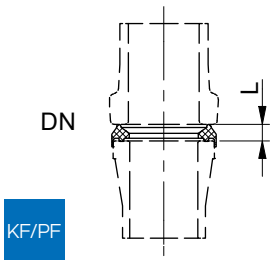
Optionen *Options*	Ableitfähig mit Erdungslasche -M2 - Beispiel PDU015/050-K-M2 *Dissipative with earthing lug -M2 - Example PDU015/050-K-M2*

- Werden dazu verwendet Längenunterschiede auszugleichen und um verschiedene Enden KF-Kugel, KF-Pfanne oder KF-Plan zu verbinden
- KF: Kugel Pfanne bis 3° auslenkbar
- Sehr gute Abdichtung durch präzise hergestellte Dichtfläche
- Kompatibel zu Flanschen anderer Hersteller oder älteren Produkten
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080
- Material produktberührend: PTFE

- *Used to compensate for differences in length and to connect different ends KF ball, KFcup or KF plan*
- *KF: Ball cup deflectable up to 3°*
- *Very good sealing due to precisely ground sealing surface*
- *High wall thickness for long service life and pressure stability*
- *Compatible with flanges from other manufacturers or older products*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080*
- *Material product contacting: PTFE*







Dichtung, Übergang KF-PF, PTFE

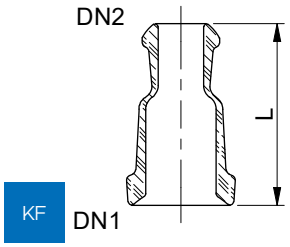
Gasket, transition KF-PF, PTFE

	DN	L [mm]	Art.-No.
KF/PF-System	15	6	CGE015
	25	7	CGE025
	40	8	CGE040
	50	8	CGE050
	80	10	CGE080
	100	12	CGE100
	150	13	CGE150

Optionen *Options*	Ableitfähig mit Erdungslasche -M2 - Beispiel CGE015-M2 *Dissipative with earthing lug -M2 - Example CGE015-M2*

- Zwischenstücke universell PTFE werden dazu verwendet verschiedene Flanschausführungen zu verbinden. Sie sind aus PTFE gefertigt und passen im KF-System beidseitig auf Kugel, Pfanne und Plan. Wenn Zwischenstücke zum Einsatz kommen, ist eine Schellenringverbindung mit längeren Schrauben notwendig. Diese ist im Kapitel „10 Verbindungen" zu finden.
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150
- Material produktberührend: PTFE

- *Transition pieces universal PTFE are used to connect different flange designs. They are made of PTFE and fit on both sides of the ball, cup and flat in the KF system. If intermediate pieces are used, a clamp ring connection with longer bolts is necessary. This can be found in chapter „10 Connections".*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150
- *Material product contacting: PTFE*



Reduzierstück, symmetrisch

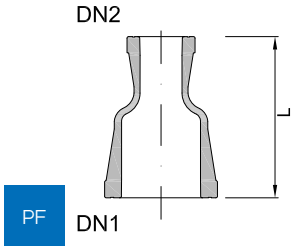
Reducer, symmetrical

	DN1	DN2	L [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	25	15	100	PR025/015-K	PR025/015-F33
	40	15	100	PR040/015-K	PR040/015-F33
	40	25	100	PR040/025-K	PR040/025-F33
	50	15	100	PR050/015-K	PR050/015-F33
	50	25	100	PR050/025-K	PR050/025-F33
	50	40	100	PR050/040-K	PR050/040-F33
	80	25	125	PR080/025-K	PR080/025-F33
	80	40	125	PR080/040-K	PR080/040-F33
	80	50	125	PR080/050-K	PR080/050-F33
	100	25	150	PR100/025-K	PR100/025-F33
	100	40	150	PR100/040-K	PR100/040-F33
	100	50	150	PR100/050-K	PR100/050-F33
	100	80	150	PR100/080-K	PR100/080-F33
	150	25	200	PR150/025-K	PR150/025-F33
	150	40	200	PR150/040-K	PR150/040-F33
	150	50	200	PR150/050-K	PR150/050-F33
	150	80	200	PR150/080-K	PR150/080-F33
	150	100	200	PR150/100-K	PR150/100-F33
	200	25	200	PR200/025-K	PR200/025-F33
	200	40	200	PR200/040-K	PR200/040-F33
	200	50	200	PR200/050-K	PR200/050-F33
	200	80	200	PR200/080-K	PR200/080-F33
	200	100	200	PR200/100-K	PR200/100-F33
	200	150	200	PR200/150-K	PR200/150-F33
	300	25	225	PR300/025-K	PR300/025-F33
	300	40	225	PR300/040-K	PR300/040-F33
	300	50	225	PR300/050-K	PR300/050-F33
	300	80	250	PR300/080-K	PR300/080-F33
	300	100	250	PR300/100-K	PR300/100-F33
	300	150	275	PR300/150-K	PR300/150-F33
	300	200	250	PR300/200-K	PR300/200-F33
	400	25	300	PR400/025-K	PR400/025-F33
	400	40	300	PR400/040-K	PR400/040-F33
	400	50	300	PR400/050-K	PR400/050-F33
	400	80	300	PR400/080-K	PR400/080-F33
	400	100	300	PR400/100-K	PR400/100-F33

	DN1	DN2	L [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	400	150	300	PR400/150-K	PR400/150-F33
	400	200	300	PR400/200-K	PR400/200-F33
	400	300	300	PR400/300-K	PR400/300-F33
	450	25	325	PR450/025-K	PR450/025-F33
	450	40	325	PR450/040-K	PR450/040-F33
	450	50	325	PR450/050-K	PR450/050-F33
	450	80	325	PR450/080-K	PR450/080-F33
	450	100	350	PR450/100-K	PR450/100-F33
	450	150	350	PR450/150-K	PR450/150-F33
	450	200	325	PR450/200-K	PR450/200-F33
	450	300	325	PR450/300-K	PR450/300-F33
	600	50	375	PR600/050-K	PR600/050-F33
	600	80	375	PR600/080-K	PR600/080-F33
	600	100	400	PR600/100-K	PR600/100-F33
	600	150	425	PR600/150-K	PR600/150-F33
	600	200	400	PR600/200-K	PR600/200-F33
	600	300	400	PR600/300-K	PR600/300-F33

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1... +6 barg DN015-025, -1... +4 barg DN040-050, -1... +3 barg DN080, -1... +2 barg DN100-150, -1...+1 barg DN200-300, -1... +0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1... +6 barg DN015-025, -1... +4 barg DN040-050, -1... +3 barg DN080, -1... +2 barg DN100-150, -1...+1 barg DN200-300, -1... +0,5 barg DN400-600*
- *Material product contacting: borosilicate glass 3.3*



Reduzierstück, symmetrisch

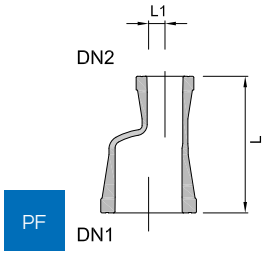
Reducer, symmetrical

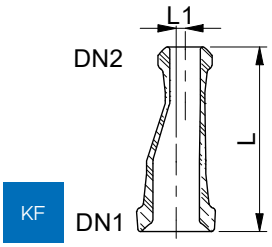
	DN1	DN2	L [mm]	Art.-No. Design A	Art.-No. Design B
PF-System	25	15	100		PR025/015-P
	40	15	100		PR040/015-P
	40	25	100		PR040/025-P
	50	15	100		PR050/015-P
	50	25	100		PR050/025-P
	50	40	100		PR050/040-P
	80	25	125		PR080/025-P
	80	40	125		PR080/040-P
	80	50	125		PR080/050-P
	100	25	150		PR100/025-P
	100	40	150		PR100/040-P
	100	50	150		PR100/050-P
	100	80	150		PR100/080-P
	150	25	200		PR150/025-P
	150	40	200		PR150/040-P
	150	50	200		PR150/050-P
	150	80	200		PR150/080-P
	150	100	200		PR150/100-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PR050/025-K-C3 Coating dissipative -C3 - Example PR050/025-K-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PR050/025-K-C4 Coating UV protection brown -C4 - Example PR050/025-K-C4
	Sonderflanschkombination -FXX - Beispiel PR050/025-F13 Custom flange combination -FXX - Example PR050/025-F13

- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1... +6 barg DN015-025, -1... +4 barg DN040-050, -1... +3 barg DN080, -1... +2 barg DN100-150, -1...+1 barg DN200-300, -1... +0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1... +6 barg DN015-025, -1... +4 barg DN040-050, -1... +3 barg DN080, -1... +2 barg DN100-150, -1...+1 barg DN200-300, -1... +0,5 barg DN400-600*
- *Material product contacting: borosilicate glass 3.3*





Reduzierstück, exzentrisch

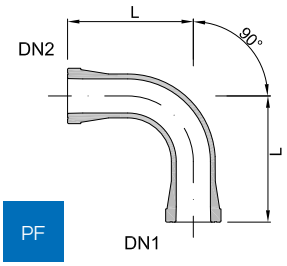
Reducer, excentric

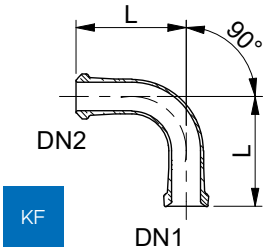
	DN1	DN2	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	25	15	100	5	PRE025/015-K	PRE025/015-F33
	40	15	100	11	PRE040/015-K	PRE040/015-F33
	40	25	100	6	PRE040/025-K	PRE040/025-F33
	50	15	100	17	PRE050/015-K	PRE050/015-F33
	50	25	100	12	PRE050/025-K	PRE050/025-F33
	50	40	100	6	PRE050/040-K	PRE050/040-F33
	80	25	125	24	PRE080/025-K	PRE080/025-F33
	80	40	125	18	PRE080/040-K	PRE080/040-F33
	80	50	125	12	PRE080/050-K	PRE080/050-F33
	100	25	150	39	PRE100/025-K	PRE100/025-F33
	100	40	150	33	PRE100/040-K	PRE100/040-F33
	100	50	150	27	PRE100/050-K	PRE100/050-F33
	100	80	150	15	PRE100/080-K	PRE100/080-F33
	150	25	200	63	PRE150/025-K	PRE150/025-F33
	150	40	200	57	PRE150/040-K	PRE150/040-F33
	150	50	200	52	PRE150/050-K	PRE150/050-F33
	150	80	200	40	PRE150/080-K	PRE150/080-F33
	150	100	200	25	PRE150/100-K	PRE150/100-F33
PF-System	25	15	100	5		PRE025/015-P
	40	15	100	11		PRE040/015-P
	40	25	100	6		PRE040/025-P
	50	15	100	17		PRE050/015-P
	50	25	100	12		PRE050/025-P
	50	40	100	6		PRE050/040-P
	80	25	125	24		PRE080/025-P
	80	40	125	18		PRE080/040-P
	80	50	125	12		PRE080/050-P
	100	25	150	39		PRE100/025-P
	100	40	150	33		PRE100/040-P
	100	50	150	27		PRE100/050-P
	100	80	150	15		PRE100/080-P
	150	25	200	63		PRE150/025-P
	150	40	200	57		PRE150/040-P
	150	50	200	52		PRE150/050-P
	150	80	200	40		PRE150/080-P
	150	100	200	25		PRE150/100-P

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PRE050/025-K-C3 *Coating dissipative -C3 - Example PRE050/025-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PRE050/025-K-C4 *Coating UV protection brown -C4 - Example PRE050/025-K-C4*
	Sonderflanschkombination -FXX - Beispiel PRE050/025-F13 Custom flange combination -FXX - Example PRE050/025-F13

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150
- *Material product contacting: borosilicate glass 3.3*





Bogen, 90°

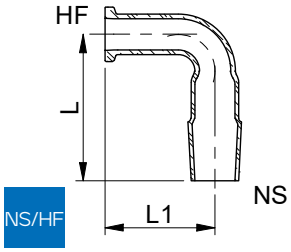
Bend, 90°

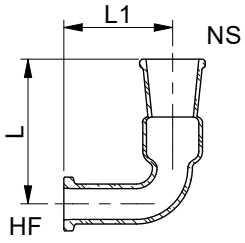
	DN1,2	L [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	50	PB90/015-K	PB90/015-F33
	25	100	PB90/025-K	PB90/025-F33
	40	150	PB90/040-K	PB90/040-F33
	50	150	PB90/050-K	PB90/050-F33
	80	200	PB90/080-K	PB90/080-F33
	100	250	PB90/100-K	PB90/100-F33
	150	250	PB90/150-K	PB90/150-F33
	200	300	PB90/200-K	PB90/200-F33
	300	400	PB90/300-K	PB90/300-F33
PF-System	15	50		PB90/015-P
	25	100		PB90/025-P
	40	150		PB90/040-P
	50	150		PB90/050-P
	80	200		PB90/080-P
	100	250		PB90/100-P
	150	250		PB90/150-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PB90/050-K-C3 *Coating dissipative -C3 - Example PB90/050-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PB90/050-K-C4 *Coating UV protection brown -C4 - Example PB90/050-K-C4*
	Sonderflanschkombination -FXX - Beispiel PB90/050-F13 *Custom flange combination -FXX - Example PB90/050-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1barg DN200-300
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1barg DN200-300*
- *Material product contacting: borosilicate glass 3.3*





Adapter, 90°, symmetrisch, NS, HF

Adapter, 90°, symmetrical, NS, HF

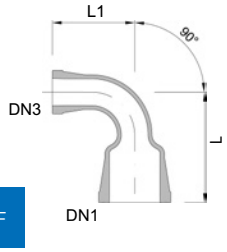
	NS	HF	L [mm]	L1 [mm]	Art.-No. Hülse-HF *sleeve-HF*	Art.-No. Kern-HF *cone-HF*
NS/HF-System	14/23	HF16	90	90	PA90/NSS1423/ HFN16	PA90/NSC1423/ HFN16
	14/35	HF16	90	90	PA90/NSS1435/ HFN16	PA90/NSC1435/ HFN16
	19/26	HF16	90	90	PA90/NSS1926/ HFN16	PA90/NSC1926/ HFN16
	24/29	HF16	90	90	PA90/NSS2429/ HFN16	PA90/NSC2429/ HFN16
	24/40	HF16	90	90	PA90/NSS2440/ HFN16	PA90/NSC2440/ HFN16
	29/32	HF16	90	90	PA90/NSS2932/ HFN16	PA90/NSC2932/ HFN16
	29/42	HF16	90	90	PA90/NSS2942/ HFN16	PA90/NSC2942/ HFN16
	14/23	HF25	100	100	PA90/NSS1423/ HFN25	PA90/NSC1423/ HFN25
	14/35	HF25	100	100	PA90/NSS1435/ HFN25	PA90/NSC1435/ HFN25
	19/26	HF25	100	100	PA90/NSS1926/ HFN25	PA90/NSC1926/ HFN25
	24/29	HF25	100	100	PA90/NSS2429/ HFN25	PA90/NSC2429/ HFN25
	24/40	HF25	100	100	PA90/NSS2440/ HFN25	PA90/NSC2440/ HFN25
	29/32	HF25	100	100	PA90/NSS2932/ HFN25	PA90/NSC2932/ HFN25
	29/42	HF25	100	100	PA90/NSS2942/ HFN25	PA90/NSC2942/ HFN25
	24/29	HF40	110	110	PA90/NSS2429/ HFN40	PA90/NSC2429/ HFN40
	24/40	HF40	110	110	PA90/NSS2440/ HFN40	PA90/NSC2440/ HFN40
	29/32	HF40	110	110	PA90/NSS2932/ HFN40	PA90/NSC2932/ HFN40
	29/42	HF40	110	110	PA90/NSS2942/ HFN40	PA90/NSC2942/ HFN40
	45/40	HF40	110	110	PA90/NSS4540/ HFN40	PA90/NSC4540/ HFN40
	45/50	HF40	110	110	PA90/NSS4550/ HFN40	PA90/NSC4550/ HFN40
	24/29	HF50	120	120	PA90/NSS2429/ HFN50	PA90/NSC2429/ HFN50

	NS	HF	L [mm]	L1 [mm]	Art.-No. Hülse-HF *sleeve-HF*	Art.-No. Kern-HF *cone-HF*
NS/HF-System	24/40	HF50	120	120	PA90/NSS2440/ HFN50	PA90/NSC2440/ HFN50
	29/32	HF50	120	120	PA90/NSS2932/ HFN50	PA90/NSC2932/ HFN50
	29/42	HF50	120	120	PA90/NSS2942/ HFN50	PA90/NSC2942/ HFN50
	45/40	HF50	120	120	PA90/NSS4540/ HFN50	PA90/NSC4540/ HFN50
	45/50	HF50	120	120	PA90/NSS4550/ HFN50	PA90/NSC4550/ HFN50

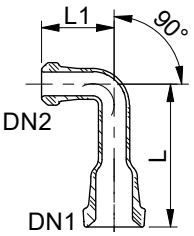
Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PA90/NSS2932/HFN16-C3 *Coating dissipative -C3 - Example PA90/NSS2932/HFN16-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/NSS2932/HFN16-C4 *Coating UV protection brown -C4 - Example PA90/NSS2932/HFN16-C4*

- Haupteinsatzgebiet sind Schlenk-Linien
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *Main field of application are schlenk lines*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0.5 barg*
- *Material in contact with product: borosilicate glass 3.3*



PF



KF

Bogen, 90°, Reduzierung

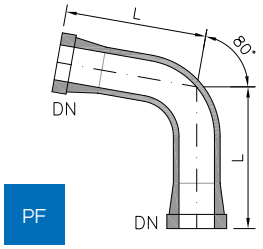
Bend, 90°, reducer

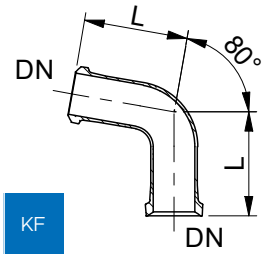
	DN1	DN2,3	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	25	15	100	50	PBR025/015-K	PBR025/015-F33
	40	25	125	100	PBR040/025-K	PBR040/025-F33
	50	25	150	100	PBR050/025-K	PBR050/025-F33
	50	40	150	150	PBR050/040-K	PBR050/040-F33
	80	25	150	100	PBR080/025-K	PBR080/025-F33
	80	50	150	150	PBR080/050-K	PBR080/050-F33
	100	25	200	100	PBR100/025-K	PBR100/025-F33
	100	50	200	150	PBR100/050-K	PBR100/050-F33
	100	80	200	175	PBR100/080-K	PBR100/080-F33
	150	50	200	150	PBR150/050-K	PBR150/050-F33
	150	80	250	175	PBR150/080-K	PBR150/080-F33
	200	50	250	150	PBR200/050-K	PBR200/050-F33
	200	80	250	175	PBR200/080-K	PBR200/080-F33
	300	80	300	175	PBR300/080-K	PBR300/080-F33
	300	150	350	250	PBR300/150-K	PBR300/150-F33
PF-System	25	15	100	50		PBR025/015-P
	40	25	125	100		PBR040/025-P
	50	25	150	100		PBR050/025-P
	50	40	150	150		PBR050/040-P
	80	25	150	100		PBR080/025-P
	80	50	150	150		PBR080/050-P
	100	25	200	100		PBR100/025-P
	100	50	200	150		PBR100/050-P
	100	80	200	175		PBR100/080-P
	150	50	200	150		PBR150/050-P
	150	80	250	175		PBR150/080-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PBR050/025-K-C3 *Coating dissipative -C3 - Example PBR050/025-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PBR050/025-K-C4 *Coating UV protection brown -C4 - Example PBR050/025-K-C4*
	Sonderflanschkombination -FXX - Beispiel PBR050/025-F13 *Custom flange combination -FXX - Example PBR050/025-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C -*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150
- *Material product contacting: borosilicate glass 3.3*





Bogen, 80°

Bend, 80°

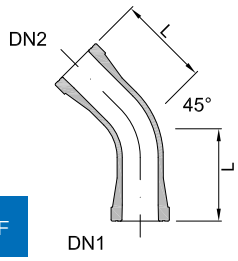
	DN1,2	L [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	50	PB80/015-K	PB80/015-F33
	25	100	PB80/025-K	PB80/025-F33
	40	150	PB80/040-K	PB80/040-F33
	50	150	PB80/050-K	PB80/050-F33
	80	200	PB80/080-K	PB80/080-F33
	100	250	PB80/100-K	PB80/100-F33
	150	250	PB80/150-K	PB80/150-F33
	200	300	PB80/200-K	PB80/200-F33
	300	400	PB80/300-K	PB80/300-F33
PF-System	15	50		PB80/015-P
	25	100		PB80/025-P
	40	150		PB80/040-P
	50	150		PB80/050-P
	80	200		PB80/080-P
	100	250		PB80/100-P
	150	250		PB80/150-P

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PB80/050-K-C3 *Coating dissipative -C3 - Example PB80/050-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PB80/050-K-C4 *Coating UV protection brown -C4 - Example PB80/050-K-C4*
	Sonderflanschkombination -FXX - Beispiel PB80/050-F13 *Custom flange combination -FXX - Example PB80/050-F13*

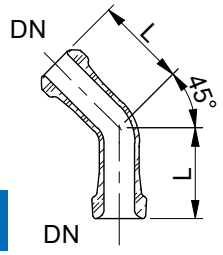
- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
  Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C -*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- *Material product contacting: borosilicate glass 3.3*

PF



KF



Bogen, 45°

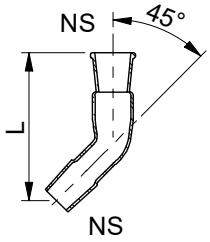
Bend, 45°

	DN1,2	L [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	50	PB45/015-K	PB45/015-F33
	25	75	PB45/025-K	PB45/025-F33
	40	100	PB45/040-K	PB45/040-F33
	50	100	PB45/050-K	PB45/050-F33
	80	125	PB45/080-K	PB45/080-F33
	100	175	PB45/100-K	PB45/100-F33
	150	200	PB45/150-K	PB45/150-F33
	200	200	PB45/200-K	PB45/200-F33
	300	200	PB45/300-K	PB45/300-F33
PF-System	15	50		PB45/015-P
	25	75		PB45/025-P
	40	100		PB45/040-P
	50	100		PB45/050-P
	80	125		PB45/080-P
	100	175		PB45/100-P
	150	200		PB45/150-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PB45/050-K-C3 *Coating dissipative -C3 - Example PB45/050-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PB45/050-K-C4 *Coating UV protection brown -C4 - Example PB45/050-K-C4*
	Sonderflanschkombination -FXX - Beispiel PB45/050-F13 *Custom flange combination -FXX - Example PB45/050-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1 barg DN200-300
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1 barg DN200-300*
- *Material product contacting: borosilicate glass 3.3*



NS

Bogen, 45°, NS, SJ

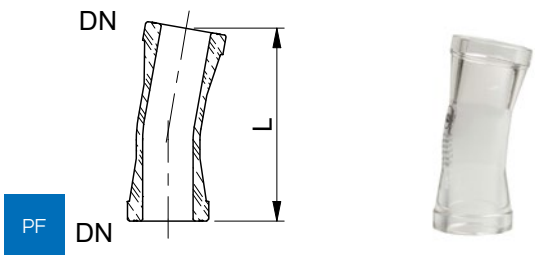
Bend, 45°, NS, SJ

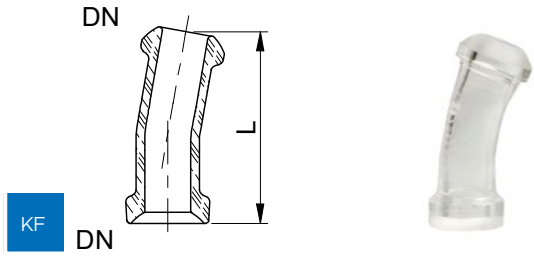
	DN1	DN2	L [mm]	Art.-No. Kern-Hülse *cone-sleeve*
NS-System	NSS2429	NSC2429	130	PB45/NSS2429/NSC2429
	NSS2429	NSC2932	120	PB45/NSS2429/NSC2932
	NSS2429	NSC3435	130	PB45/NSS2429/NSC3435
	NSS2932	NSC2429	130	PB45/NSS2932/NSC2429
	NSS2932	NSC2932	120	PB45/NSS2932/NSC2932
	NSS2932	NSC3435	130	PB45/NSS2932/NSC3435
	NSS4540	NSC2932	150	PB45/NSS4540/NSC2932
	NSS4540	NSC3435	150	PB45/NSS4540/NSC3435
	NSS4540	NSC4540	150	PB45/NSS4540/NSC4540
SJ-System	SJS2429	SJC2429	140	PB45/SJS2429/SJC2429
	SJS2429	SJC2932	140	PB45/SJS2429/SJC2932
	SJS2429	SJC3435	140	PB45/SJS2429/SJC3435
	SJS2932	SJC2429	140	PB45/SJS2932/SJC2429
	SJS2932	SJC2932	140	PB45/SJS2932/SJC2932
	SJS2932	SJC3435	140	PB45/SJS2932/SJC3435
	SJS4540	SJC2932	150	PB45/SJS4540/SJC2932
	SJS4540	SJC3435	150	PB45/SJS4540/SJC3435
	SJS4540	SJC4540	160	PB45/SJS4540/SJC4540
NS/SJ-System	NSS2429	SJC2429	140	PB45/NSS2429/SJC2429
	NSS2429	SJC2932	140	PB45/NSS2429/SJC2932
	NSS2429	SJC3435	140	PB45/NSS2429/SJC3435
	NSS2932	SJC2429	140	PB45/NSS2932/SJC2429
	NSS2932	SJC2932	140	PB45/NSS2932/SJC2932
	NSS2932	SJC3435	140	PB45/NSS2932/SJC3435
	NSS4540	SJC2932	150	PB45/NSS4540/SJC2932
	NSS4540	SJC3435	150	PB45/NSS4540/SJC3435
	NSS4540	SJC4540	160	PB45/NSS4540/SJC4540

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PB45/NSS2429/NSC2429-C3 *Coating dissipative -C3 - Example PB45/NSS2429/NSC2429-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PB45/NSS2429/NSC2429-C4 *Coating UV protection brown -C4 - Example PB45/NSS2429/NSC2429-C4*

- Zur Verbindung unterschiedlicher NS-Anschlüsse mit SJ-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with JS-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Bogen, 10°

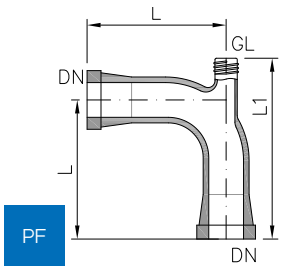
Bend, 10°

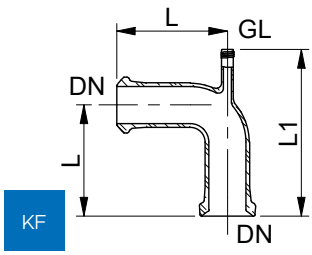
	DN1,2	L [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	50	PB10/015-K	PB10/015-F33
	25	100	PB10/025-K	PB10/025-F33
	40	150	PB10/040-K	PB10/040-F33
	50	150	PB10/050-K	PB10/050-F33
	80	200	PB10/080-K	PB10/080-F33
	100	250	PB10/100-K	PB10/100-F33
	150	250	PB10/150-K	PB10/150-F33
	200	300	PB10/200-K	PB10/200-F33
	300	400	PB10/300-K	PB10/300-F33
PF-System	15	50		PB10/015-P
	25	100		PB10/025-P
	40	150		PB10/040-P
	50	150		PB10/050-P
	80	200		PB10/080-P
	100	250		PB10/100-P
	150	250		PB10/150-P

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PB10/050-K-C3 *Coating dissipative -C3 - Example PB10/050-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PB10/050-K-C4 *Coating UV protection brown -C4 - Example PB10/050-K-C4*
	Sonderflanschkombination -FXX - Beispiel PB10/050-F13 *Custom flange combination -FXX - Example PB10/050-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- *Material product contacting: borosilicate glass 3.3*





Bogen, Messstutzen GL, 90°

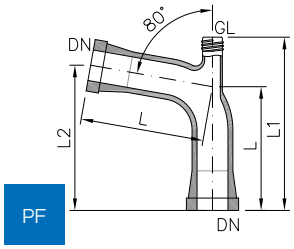
Bend, measuring nozzle GL, 90°

	DN1,2	GL	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	14	50	100	PBT90/015/GL14-K	PBT90/015/GL14-F33
	15	18	50	100	PBT90/015/GL18-K	PBT90/015/GL18-F33
	15	25	50	100	PBT90/015/GL25-K	PBT90/015/GL25-F33
	25	18	100	150	PBT90/025/GL18-K	PBT90/025/GL18-F33
	25	25	100	150	PBT90/025/GL25-K	PBT90/025/GL25-F33
	40	18	120	170	PBT90/040/GL18-K	PBT90/040/GL18-F33
	40	25	120	170	PBT90/040/GL25-K	PBT90/040/GL25-F33
	50	18	150	210	PBT90/050/GL18-K	PBT90/050/GL18-F33
	50	25	150	210	PBT90/050/GL25-K	PBT90/050/GL25-F33
PF-System	15	14	50	100		PBT90/015/GL14-P
	15	18	50	100		PBT90/015/GL18-P
	15	25	50	100		PBT90/015/GL25-P
	25	18	100	150		PBT90/025/GL18-P
	25	25	100	150		PBT90/025/GL25-P
	40	18	120	170		PBT90/040/GL18-P
	40	25	120	170		PBT90/040/GL25-P
	50	18	150	210		PBT90/050/GL18-P
	50	25	150	210		PBT90/050/GL25-P

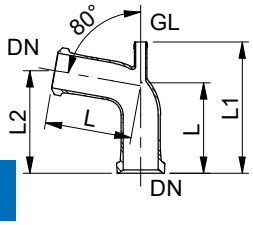
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PBT90/050/GL18-K-C3 *Coating dissipative -C3 - Example PBT90/050/GL18-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PBT90/050/GL18-K-C4 *Coating UV protection brown -C4 - Example PBT90/050/GL18-K-C4*
	Sonderflanschkombination -FXX - Beispiel PBT90/050/GL18-F13 *Custom flange combination -FXX - Example PBT90/050/GL18-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: borosilicate glass 3.3*



PF



KF

Bogen, Messstutzen GL, 80°

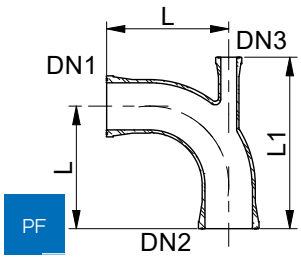
Bend, measuring nozzle GL, 80°

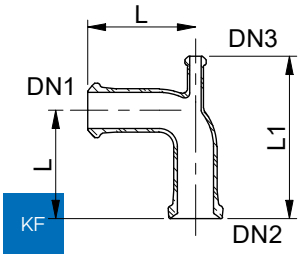
	DN1,2	GL	L [mm]	L1 [mm]	L2 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	14	50	90	59	PBT80/015/GL14-K	PBT80/015/GL14-F33
	15	18	50	90	59	PBT80/015/GL18-K	PBT80/015/GL18-F33
	15	25	50	90	59	PBT80/015/GL25-K	PBT80/015/GL25-F33
	25	18	100	150	117	PBT80/025/GL18-K	PBT80/025/GL18-F33
	25	25	100	150	117	PBT80/025/GL25-K	PBT80/025/GL25-F33
	40	18	120	180	147	PBT80/040/GL18-K	PBT80/040/GL18-F33
	40	25	120	180	147	PBT80/040/GL25-K	PBT80/040/GL25-F33
	50	18	150	210	176	PBT80/050/GL18-K	PBT80/050/GL18-F33
	50	25	150	210	176	PBT80/050/GL25-K	PBT80/050/GL25-F33
PF-System	15	14	50	90	59		PBT80/015/GL14-P
	15	18	50	90	59		PBT80/015/GL18-P
	15	25	50	90	59		PBT80/015/GL25-P
	25	18	100	150	117		PBT80/025/GL18-P
	25	25	100	150	117		PBT80/025/GL25-P
	40	18	120	180	147		PBT80/040/GL18-P
	40	25	120	180	147		PBT80/040/GL25-P
	50	18	150	210	176		PBT80/050/GL18-P
	50	25	150	210	176		PBT80/050/GL25-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PBT80/050/GL18-K-C3 *Coating dissipative -C3 - Example PBT80/050/GL18-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PBT80/050/GL18-K-C4 *Coating UV protection brown -C4 - Example PBT80/050/GL18-K-C4*
	Sonderflanschkombination Sonder -FXX - Beispiel PBT80/050/GL18-F13 *Custom flange combination -FXX - Example Beispiel PBT80/050/GL18-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: borosilicate glass 3.3*





Bogen, Messstutzen, 90°

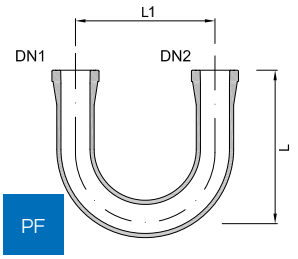
Bend, measuring nozzle, 90°

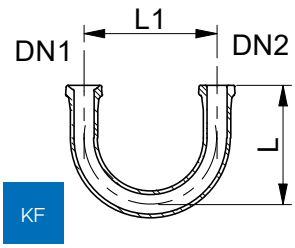
	DN1,2	DN3	L [mm]	L1 [mm]	L2 [mm]	Art.-No. Design A	Art.-No. Design B	Art.-No. Design C
KF-System	50	25	150	225		PBT90/050 /025-K	PBT90/050/ 025-F33	
	50	25	75	250	150			PBT90/050/025 -K-O10
	80	25	200	300		PBT90/080/ 025-K	PBT90/080/ 025-F33	
	80	25	100	300	200			PBT90/080/025 -K-O10
	100	25	250	330		PBT90/100/ 025-K	PBT90/100/ 025-F33	
	100	25	100	375	250			PBT90/100/025 -K-O10
	150	25	250	350		PBT90/150/ 025-K	PBT90150/ 025-F33	
	150	25	150	400	250			PBT90/150/025 -K-O10
	200	25	300	450		PBT90/200/ 025-K	PBT90/200/ 025-F33	
	200	25	150	475	300			PBT90/200/025 -K-O10
	300	25	400	525		PBT90/300/ 025-K	PBT90/300/ 025-F33	
PF-System	50	25	150	225			PBT90/050/025-P	
	80	25	200	280			PBT90/080/025-P	
	100	25	250	330			PBT90/100/025-P	
	150	25	250	340			PBT90/150/025-P	
	200	25	300	450			PBT90/200/025-P	
	300	25	400	525			PBT90/300/025-P	

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PBT90/050/025-K-C3 *Coating dissipative -C3 - Example PBT90/050/025-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PBT050/025-K-C4 *Coating UV protection brown -C4 - Example PBT050/025-K-C4*
	Sonderflanschkombination -FXX - Beispiel PBT90/050/025-F13 *Custom flange combination -FXX - Example PBT90/050/025-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- KF: Design C beidseitig mit KF-Pfanne und Mess-stutzen-Position außerhalb der Achse
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *KF: Design C on both sides with KF cup and measuring spigot position outside the centerline*
- *Permissible operating temperature: -50...+200°C -*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- *Material product contacting: borosilicate glass 3.3*





Bogen, U-Stück

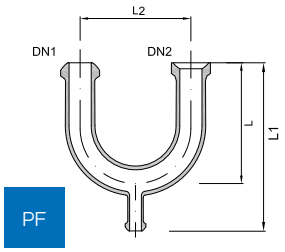
U-bend

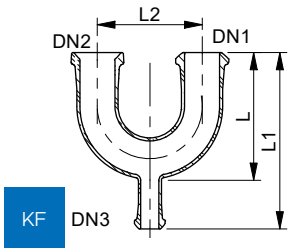
	DN1,2	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	100	100	PU015-K	PU015-F33
	25	150	150	PU025-K	PU025-F33
	40	150	150	PU040-K	PU040-F33
	50	150	150	PU050-K	PU050-F33
	80	200	210	PU080-K	PU080-F33
PF-System	15	75	75		PU015-P
	25	140	140		PU025-P
	40	180	180		PU040-P
	50	180	180		PU050-P
	80	200	210		PU080-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PU015-K-C3 *Coating dissipative -C3 - Example PU015-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PU015-K-C4 *Coating UV protection brown -C4 - Example PU015-K-C4*
	Sonderflanschkombination -FXX - Beispiel PU015-F13 *Custom flange combination -FXX - Example PU015-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1 barg DN200-300
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150, -1...+1 barg DN200-300*
- *Material product contacting: borosilicate glass 3.3*





Bogen U-Stück, Entleerung

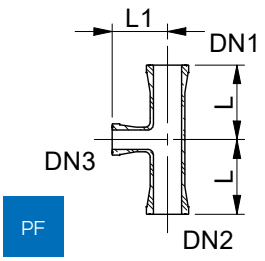
U-bend, outlet nozzle

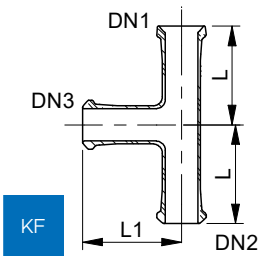
	DN1,2	DN3	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	15	100	200	PUO015/015-K	PUO015/015-F33
	25	25	150	250	PUO025/025-K	PUO025/025-F33
	40	25	150	250	PUO040/025-K	PUO040/025-F33
	40	40	150	250	PUO040/040-K	PUO040/040-F33
	50	25	150	250	PUO050/025-K	PUO050/025-F33
	50	50	150	260	PUO050/050-K	PUO050/050-F33
	80	25	200	300	PUO080/025-K	PUO080/025-F33
PF-System	15	15	75	125		PUO015/015-P
	25	25	140	210		PUO025/025-P
	40	25	180	270		PUO040/025-P
	40	40	180	270		PUO040/040-P
	50	25	180	280		PUO050/025-P
	50	50	180	290		PUO050/050-P
	80	25	200	300		PUO080/025-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PUO015/015-K-C3 *Coating dissipative -C3 - Example PUO015/015-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PUO015/015-K-C4 *Coating UV protection brown -C4 - Example PUO015/015-K-C4*
	Sonderflanschkombination -FXX - Beispiel PUO015/015-F13 *Custom flange combination -FXX - Example PUO015/015-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: borosilicate glass 3.3*



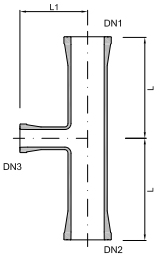


T-Stück

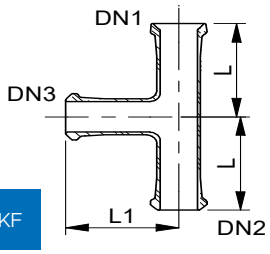
T-form

	DN1,2	DN3	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	15	50	50	PT015/015-K	PT015/015-F333
	25	15	75	75	PT025/015-K	PT025/015-F333
	25	25	100	100	PT025/025-K	PT025/025-F333
	40	15	100	75	PT040/015-K	PT040/015-F333
	40	25	100	100	PT040/025-K	PT040/025-F333
	40	40	150	150	PT040/040-K	PT040/040-F333
	50	15	100	75	PT050/015-K	PT050/015-F333
	50	25	100	100	PT050/025-K	PT050/025-F333
	50	40	100	100	PT050/040-K	PT050/040-F333
	50	50	150	150	PT050/050-K	PT050/050-F333
	80	25	100	100	PT080/025-K	PT080/025-F333
	80	40	125	100	PT080/040-K	PT080/040-F333
	80	50	125	100	PT080/050-K	PT080/050-F333
	80	80	200	200	PT080/080-K	PT080/080-F333
	100	25	100	125	PT100/025-K	PT100/025-F333
	100	40	125	125	PT100/040-K	PT100/040-F333
	100	50	125	125	PT100/050-K	PT100/050-F333
	100	80	150	125	PT100/080-K	PT100/080-F333
	100	100	250	250	PT100/100-K	PT100/100-F333
	150	25	100	150	PT150/025-K	PT150/025-F333
	150	40	125	150	PT150/040-K	PT150/040-F333
	150	50	125	150	PT150/050-K	PT150/050-F333
	150	80	150	150	PT150/080-K	PT150/080-F333
	150	100	150	150	PT150/100-K	PT150/100-F333
	150	150	250	250	PT150/150-K	PT150/150-F333
	200	25	100	175	PT200/025-K	PT200/025-F333
	200	40	125	175	PT200/040-K	PT200/040-F333
	200	50	125	175	PT200/050-K	PT200/050-F333
	200	80	150	175	PT200/080-K	PT200/080-F333
	200	100	150	175	PT200/100-K	PT200/100-F333
	200	150	200	225	PT200/150-K	PT200/150-F333
	200	200	300	300	PT200/200-K	PT200/200-F333
	300	25	150	225	PT300/025-K	PT300/025-F333
	300	40	200	225	PT300/040-K	PT300/040-F333
	300	50	200	225	PT300/050-K	PT300/050-F333
	300	80	200	225	PT300/080-K	PT300/080-F333

	DN1,2	DN3	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
	300	100	200	250	PT300/100-K	PT300/100-F333
	300	150	250	275	PT300/150-K	PT300/150-F333
	300	200	300	275	PT300/200-K	PT300/200-F333
	300	300	400	400	PT300/300-K	PT300/300-F333
	400	80	200	300	PT400/080-K	PT400/080-F333
	400	150	250	325	PT400/150-K	PT400/150-F333
	450	80	200	325	PT450/080-K	PT450/080-F333
	450	150	250	350	PT450/150-K	PT450/150-F333
	600	80	300	400	PT600/080-K	PT600/080-F333
	600	150	300	425	PT600/150-K	PT600/150-F333
	600	300	400	500	PT600/300-K	PT600/300-F333
PF-System	15	15	50	50		PT015/015-P
	25	15	75	75		PT025/015-P
	25	25	100	100		PT025/025-P
	40	15	100	75		PT040/015-P
	40	25	100	75		PT040/025-P
	40	40	150	150		PT040/040-P
	50	15	100	75		PT050/015-P
	50	25	100	80		PT050/025-P
	50	40	100	100		PT050/040-P
	50	50	150	150		PT050/050-P
	80	25	125	100		PT080/025-P
	80	40	125	100		PT080/040-P
	80	50	125	115		PT080/050-P
	80	80	200	200		PT080/080-P
	100	25	125	110		PT100/025-P
	100	40	125	125		PT100/040-P
	100	50	125	125		PT100/050-P
	100	80	150	150		PT100/080-P
	100	100	250	250		PT100/100-P
	150	25	125	150		PT150/025-P
	150	40	125	150		PT150/040-P
	150	50	125	150		PT150/050-P
	150	80	150	175		PT150/080-P
	150	100	150	200		PT150/100-P
	150	150	250	250		PT150/150-P



PF



KF

T-Stück

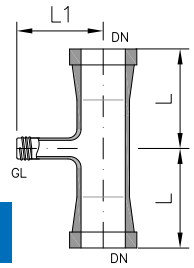
T-form

Optionen / *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PT050/025-K-C3 *Coating dissipative -C3 - Example PT050/025-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PT050/025-K-C4 *Coating UV protection brown -C4 - Example PT050/025-K-C4*
	Sonderflanschkombination -FXX - Beispiel PT050/025-F134 *Custom flange combination -FXX - Example PT050/025-F134*

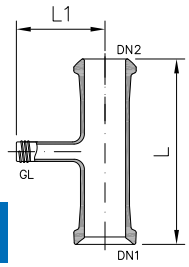
- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300, -1...+0,5 barg DN400-600
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300, -1...+0,5 barg DN400-600
- *Material product contacting: borosilicate glass 3.3*

PF



KF



T-Stück, KF/PF, Glasgewinde

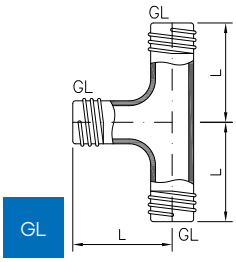
T-form, KF/PF, glass thread

	DN1,2	GL	L [mm]	L1 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	14	100	45	PT015/GL14-K	PT015/GL14-F33
	15	18	100	45	PT015/GL18-K	PT015/GL18-F33
	15	25	100	45	PT015/GL25-K	PT015/GL25-F33
	25	18	150	50	PT025/GL18-K	PT025/GL18-F33
	25	25	150	50	PT025/GL25-K	PT025/GL25-F33
	40	18	150	60	PT040/GL18-K	PT040/GL18-F33
	40	25	150	60	PT040/GL25-K	PT040/GL25-F33
	50	18	150	70	PT050/GL18-K	PT050/GL18-F33
	50	25	150	70	PT050/GL25-K	PT050/GL25-F33
PF-System	15	14	100	45		PT015/GL14-P
	15	18	100	45		PT015/GL18-P
	15	25	100	45		PT015/GL25-P
	25	18	150	50		PT025/GL18-P
	25	25	150	50		PT025/GL25-P
	40	18	150	60		PT040/GL18-P
	40	25	150	60		PT040/GL25-P
	50	18	150	70		PT050/GL18-P
	50	25	150	70		PT050/GL25-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PT050/GL18-K-C3 *Coating dissipative -C3 - Example PT050/GL18-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PT050/GL18-K-C4 *Coating UV protection brown -C4 - Example PT050/GL18-K-C4*
	Sonderflanschkombination -FXX - Beispiel PT050/GL18-F13 *Custom flange combination -FXX - Example PT050/GL18-F13*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: borosilicate glass 3.3*



GL

T-Stück, Glasgewinde

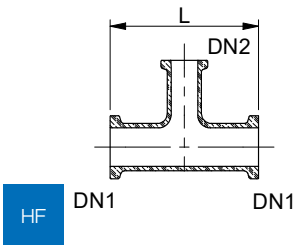
T-form, glass thread

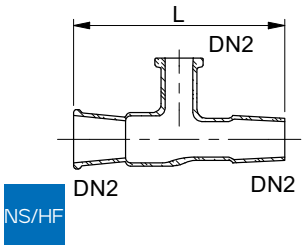
	GL	L [mm]	Art.-No.
GL-System	14	32	PTGL14
	18	37	PTGL18
	25	40	PTGL25
	32	45	PTGL32

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PTGL14-C3 *Coating dissipative -C3 - Example PTGL14-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PTGL14-C4 *Coating UV protection brown -C4 - Example PTGL14-C4*

- T-Stück mit ausschließlich GL Anschlüssen für z.B. Sensoren oder Rohrleitungen aus anderen Materialien
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg
- Material produktberührend: Borosilikatglas 3.3

- *T-piece with exclusively GL connections for e.g. sensors or pipelines made of other materials*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg*
- *Material product contacting: borosilicate glass 3.3*





T-Stück, NS, HF

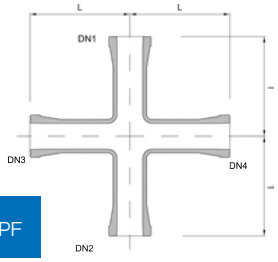
T-form, NS, HF

	DN	DN1	DN2	L [mm]	Art.-No. Design A
HF-System	HFN25	HFN16	HFN25		PTHFN25/HFN16/HFN25
HF/NS-System	NSS29/32	HFN16	NSC29/32		PT2932/HFN16/2932

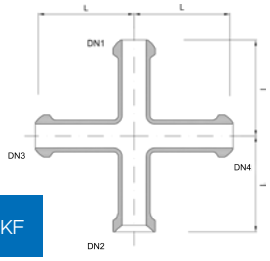
Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PTHFN25/HFN16/HFN25-C3 *Coating dissipative -C3 - Example PTHFN25/HFN16/HFN25-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PTHFN25/HFN16/HFN25-C4 *Coating UV protection brown -C4 - Example PTHFN25/HFN16/HFN25-C4*

- Haupteinsatzgebiet sind Schlenk-Linien
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *Main field of application are deflection lines*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0.5 barg*
- *Material in contact with product: borosilicate glass 3.3*



PF



KF

X-Stück

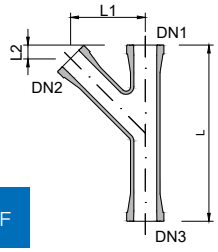
X-form

	DN1,2	DN3,4	L [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	15	15	50	PX015-K	PX015-F3333
	25	25	100	PX025-K	PX025-F3333
	40	40	150	PX040-K	PX040-F3333
	50	50	150	PX050-K	PX050-F3333
	80	80	200	PX080-K	PX080-F3333
	100	100	250	PX100-K	PX100-F3333
	150	150	250	PX150-K	PX150-F3333
PF-System	15	15	50		PX015-P
	25	25	100		PX025-P
	40	40	150		PX040-P
	50	50	150		PX050-P
	80	80	200		PX080-P
	100	100	250		PX100-P
	150	150	250		PX150-P

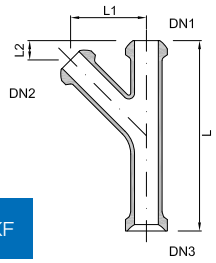
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PX050-K-C3 *Coating dissipative -C3 - Example PX050-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PX050-K-C4 *Coating UV protection brown -C4 - Example PX050-K-C4*
	Sonderflanschkombination -FXX - Beispiel PX050-F1342 *Custom flange combination -FXX - Example PX050-F1342*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150
- Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flange*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050, -1...+3 barg DN080, -1...+2 barg DN100-150*
- *Material product contacting: borosilicate glass 3.3*



PF



KF

Y-Stück

Y-form

	DN 1,3	DN2	L [mm]	L1 [mm]	L2 [mm]	Art.-No. Design A	Art.-No. Design B
KF-System	25	25	200	106	19	PY025/025-K	PY025/025-F333
	40	25	225	92	83	PY040/025-K	PY040/025-F333
	40	40	40	250	124	PY040/040-K	PY040/040-F333
	50	25	250	97	103	PY050/025-K	PY050/025-F333
	50	50	300	141	33	PY050/050-K	PY050/050-F333
	80	25	275	121	79	PY080/025-K	PY080/025-F333
	80	80	350	117	23	PY080/080-K	PY080/080-F333
	100	25	325	147	103	PY100/025-K	PY100/025-F333
	100	100	450	247	52	PY100/100-K	PY100/100-F333
	150	25	325	197	101	PY150/025-K	PY150/025-F333
PF-System	25	25	200	106	19		PY025/025-P
	40	25	225	92	83		PY040/025-P
	40	40	250	124	26		PY040/040-P
	50	25	250	97	103		PY050/025-P
	50	50	300	141	33		PY050/050-P
	80	25	275	121	79		PY080/025-P
	80	80	350	117	23		PY080/080-P
	100	25	325	147	103		PY100/025-P
	100	100	450	247	52		PY100/100-P
	150	25	325	197	101		PY150/025-P

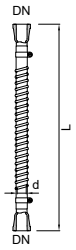
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PY050/025-K-C3 *Coating dissipative -C3 - Example PY050/025-K-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PY050/025-K-C4 *Coating UV protection brown -C4 - Example PY050/025-K-C4*
	Sonderflanschkombination -FXX - Beispiel PY050/025-F134 *Custom flange combination -FXX - Example PY050/025-F134*

- KF: Design A ist wie in Zeichnung abgebildet mit KF-Kugel und KF-Pfanne ausgeführt
- KF: Design B beidseitig mit KF-Plan
- PF: Design B beidseitig mit PF-Flansch
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150

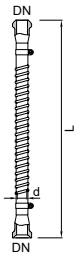
Material produktberührend: Borosilikatglas 3.3

- *KF: Design A is as shown in the drawing with KF ball and KF cup*
- *KF: Design B on both sides with KF-plan*
- *PF: Design B on both sides with PF flangen*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150
- *Material product contacting: borosilicate glass 3.3*

PF



KF



Produktschlauch

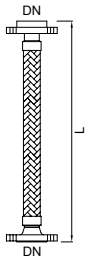
Product hose

	DN	d(PHP)	L [mm]	zul. Druck *perm. pressure* [bei 20 °C]	Art.-No.
KF-System	15	8	500	-1/+4	PHP15/0500-K
	15	8	1000	-1/+4	PHP15/1000-K
	15	8	2000	-1/+4	PHP15/2000-K
	25	17	500	-1/+4	PHP25/0500-K
	25	17	1000	-1/+4	PHP25/1000-K
	25	17	2000	-1/+4	PHP25/2000-K
	40	30	500	-1/+4	PHP40/0500-K
	40	30	1000	-1/+4	PHP40/1000-K
	40	30	2000	-1/+4	PHP40/2000-K
PF-System	15	8	500	-1/+4	PHP15/0500-P
	15	8	1000	-1/+4	PHP15/1000-P
	15	8	2000	-1/+4	PHP15/2000-P
	25	17	500	-1/+4	PHP25/0500-P
	25	17	1000	-1/+4	PHP25/1000-P
	25	17	2000	-1/+4	PHP25/2000-P
	40	30	500	-1/+4	PHP40/0500-P
	40	30	1000	-1/+4	PHP40/1000-P
	40	30	2000	-1/+4	PHP40/2000-P

Optionen *Options*	PTFE ableitfähig, Erdungslasche -M2 - Beispiel PHP15/0600-M2 *PTFE dissipative, earthing stripe -M2 - Example PHP15/0600-M2*

- Korrosionsbeständige Produktschläuche werden meist eingesetzt wenn Produktleitungen häufig geändert werden müssen oder sehr beengte Platzverhältnisse vorliegen
- Spiralschläuche sind aus PTFE-Material mit Borosilicat-Flanschadapter gefertigt
- Die minimalen Biegeradien betragen für Spiralschläuche 35 mm bei DN15 beziehungsweise 50 mm für DN25 und DN40
- Ein Verbindungelement und Dichtung gehören nicht zum Lieferumfang und können im Kapitel „Verbindungen" ausgesucht werden
- Als Anschlussflanschverbindung für EN-Flansche wird eine CAPE-Anschlussverbindung mit Stahlkerndichtung CGS und Ringdichtung empfohlen
- Bei der Anbindung an Glasstutzen ist auf ein spannungsfreies Verlegen zu achten
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+4 barg
- Material Produktschlauch: PTFE, Borosilikatglas 3.3, Edelstahl
- Material produktberührend: PTFE

- *Corrosion-resistant product hoses are mostly used if product lines have to be changed frequently or if space is very limited*
- *Spiral hoses are made of PTFE material with borosilicate flange adapter*
- *The minimum bending radii for spiral hoses are 35 mm for DN15 and 50 mm for DN25 and DN40*
- *A connecting element and gaskets are not included in the scope of delivery and can be selected in the chapter 'Connections'*
- *A CAPE connection with steel cone gasket CGS and ring gasket is recommended as a connecting flange connection for EN flanges*
- *When connecting to glass spigots, ensure stress-free installation*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+4 barg*
- *Material product hose: PTFE, borosilicate glass 3.3, stainless steel*
- *Material product contacting: PTFE*



PF/KF

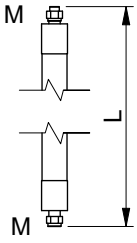
Produktschlauch, ummantelt *Product hose, sleeved*

	DN	d(PHP)	L [mm]	zul. Druck *perm. pressure* [bei 20 °C]	Art.-No.
KF/PF-System	25	17	500	-1/+10	PHE25/0500
	25	17	1000	-1/+10	PHE25/1000
	25	17	2000	-1/+10	PHE25/2000
	40	30	500	-1/+10	PHE40/0500
	40	30	1000	-1/+10	PHE40/1000
	40	30	2000	-1/+10	PHE40/2000

Optionen *Options*	PTFE ableitfähig, Erdungslasche -M2 - Beispiel PHE15/0600-M2 *PTFE dissipativ, earthing stripe -M2 - Example PHP15/0600-M2*

- Korrosionsbeständige Produktschläuche werden meist eingesetzt wenn Produktleitungen häufig geändert werden müssen oder sehr beengte Platzverhältnisse vorliegen
- Für Anwendungen mit erhöhten zulässigen Betriebsdrücken und -temperaturen geeignet
- PTFE glatt ausgekleidete Schläuche mit außenliegendem Edelstahlgeflecht
- Verbindungelemente und Dichtung gehören nicht zum Lieferumfang und können im Kapitel „Verbindungen" ausgesucht werden
- Als Anschlussflanschverbindung für EN-Flansche wird eine CAPE-Anschlussverbindung mit Stahlkerndichtung CGS und Ringdichtung empfohlen
- Bei der Anbindung an Glasstutzen ist auf ein spannungsfreies Verlegen zu achten
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+10 barg
- Material Produktschlauch: PTFE, Edelstahl
- Material produktberührend: PTFE

- *Corrosion-resistant product hoses are usually used if product lines have to be changed frequently or if space is very limited*
- *Suitable for applications with increased - Permissible operating pressures and temperatures*
- *PTFE smooth lined hoses with external stainless steel braiding*
- *Connecting elements and gasket are not included in the scope of delivery and can be selected in the chapter 'Connections'*
- *A CAPE connection with steel cone gasket CGS and ring gasket is recommended as a connecting flange connection for EN flanges*
- *When connecting to glass spigots, ensure stress-free installation*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+10 barg*
- *Material product hose: PTFE, stainless steel*
- *Material product contacting: PTFE*



Temperierschlauch

Temperature control hose

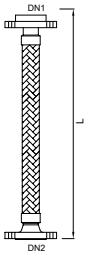
	M	L [mm]	zul. Druck *perm. pressure* [bei 20 °C]	zul. Temperatur *perm. Temperature*	Art.-No.
Metrisch *Metric*	16x1	1000	6 bar	-50...+200	PHM200/IM16x1/1000
	16x1	1500	6 bar	-50...+200	PHM200/IM16x1/1500
	16x1	2000	6 bar	-50...+200	PHM200/IM16x1/2000
	16x1	3000	6 bar	-50...+200	PHM200/IM16x1/3000
	30x1,5	1000	6 bar	-50...+200	PHM200/IM30x1,5/1000
	30x1,5	1500	6 bar	-50...+200	PHM200/IM30x1,5/1500
	30x1,5	2000	6 bar	-50...+200	PHM200/IM30x1,5/2000
	30x1,5	3000	6 bar	-50...+200	PHM200/IM30x1,5/3000
	16x1	1000	6 bar	-100...+350	PHM350/IM16x1/1000
	16x1	2000	6 bar	-100...+350	PHM350/IM16x1/2000
	16x1	3000	6 bar	-100...+350	PHM350/IM16x1/3000
	30x1,5	1000	6 bar	-100...+350	PHM350/IM30x1,5/1000
	30x1,5	2000	6 bar	-100...+350	PHM350/IM30x1,5/2000
	30x1,5	3000	6 bar	-100...+350	PHM350/IM30x1,5/3000

Optionen *Options*	Länge /XXXX - Beispiel PHM200/IM16x1/0800 *Length /XXXX - Example PHM200/IM16x1/0800*

- Isolierte Temperierschläuche werden meist für die Verbindung von Thermostat und Temperiermantel genutzt
- Für Anwendungen mit erhöhten Betriebstemperaturen nehmen Sie Variante PHM350
- Adapter und Dichtungen gehören nicht zum Lieferumfang und können auf den folgenden Seiten ausgesucht werden
- Bei der Anbindung an Glasstutzen ist auf ein spannungsfreies Verlegen zu achten
- Zulässige Betriebstemperatur: -50...+200°C PHM200, -100...+350°C PHM350
- Zulässiger Betriebsdruck: 0...+5 barg
- Material Temperierschlauch: Edelstahl, 1.4404,
- Spezialisolation mit zus. glattem Silkonschlauch
- Material Temperierflüssigkeit berührend: Edelstahl 1.4404

- *Insulated tempering hoses are mostly used for the connection of thermostat and tempering jacket*
- *For applications with increased operating temperatures, use variant PHM350*
- *Adapters and seals are not included in the scope of delivery on the following pages*
- *When connecting to glass sockets, ensure that they are laid without tension*
- *Permissible operating temperature: -50...+200°C PHM200, -100...+350°C PHM350*
- *Permissible operating pressure: 0...+5 barg*
- *Material tempering hose: stainless steel, 1.4404,*
- *Special insulation with additional smooth silicone hose*
- *Material in contact with heat transfer fluid: stainless steel 1.4404*

PF



KF

Medienschlauch

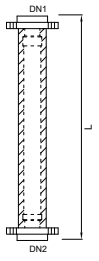
Media hose

	DN EN1092-1 PN40	L [mm]	n x d [mm]	zul. Bedingungenp *perm. conditions* [barg // °C]	Art.-No.
KF-System	15	500	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/0500-K
	15	1000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/1000-K
	15	2000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/2000-K
	25	500	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/0500-K
	25	1000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/1000-K
	25	2000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/2000-K
PF-System	15	500	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/0500-P
	15	1000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/1000-P
	15	2000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/2000-P
	25	500	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/0500-P
	25	1000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/1000-P
	25	2000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/2000-P

Optionen *Options*	Länge /XXXX - Beispiel PHM15/0600-K *Length /XXXX - Example PHM15/0600-K*

- Medienschläuche werden als flexible Leitung beziehungsweise Anschluss für nicht-korrosive Medien und vor allem von Energien (Dampf, Kondensat, Wärmeträger und Kühlwasser) verwendet
- Die Wellschläuche werden mit einer Umflechtung und Anschlussflanschen aus Edelstahl ausgeführt
- Mit Flanschen nach EN 1092-1, PN40
- Als Anschlussflanschverbindung wird für EN-Flansche eine CAPE-Anschlussverbindung mit Stahlkerndichtung CGS und Ringdichtung empfohlen
- Ein Verbindungelement und Dichtung gehören nicht zum Lieferumfang und können im Kapitel „Verbindungen" ausgesucht werden
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+16 barg
- Material Produktschlauch: Edelstahl
- Material Medien berührend: Edelstahl

- *Media hoses are used as a flexible line or connection for non-corrosive media and especially of energies (steam, condensate, heat transfer media and cooling water)*
- *The corrugated hoses are designed with a braiding and connection flanges made of stainless steel*
- *With flanges according to EN 1092-1, PN40*
- *A CAPE connection with steel cone seal CGS and ring seal is recommended as the connecting flange connection for EN flanges*
- *A connecting element and gasket are not included in the delivery and can be selected in the chapter 'Connections'*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+16 barg*
- *Material product hose: stainless steel*
- *Material media in contact: stainless steel*"



Medienschlauch, isoliert

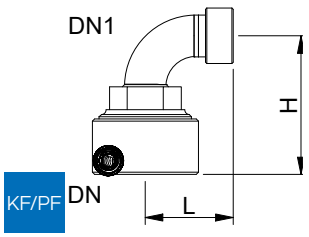
Media hose, insulated

	DN EN1092-1 PN40	L [mm]	n x d [mm]	zul. Bedingungen *perm. conditions* [barg // °C]	Art.-No.
KF-System	15	500	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/0500-K-O3
	15	1000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/1000-K-O3
	15	2000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/2000-K-O3
	25	500	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/0500-K-O3
	25	1000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/1000-K-O3
	25	2000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/2000-K-O3
PF-System	15	500	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/0500-P-O3
	15	1000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/1000-P-O3
	15	2000	Ø65,4 x Ø14	-1/+16 // -50/+200	PHM15/2000-P-O3
	25	500	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/0500-P-O3
	25	1000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/1000-P-O3
	25	2000	Ø85,4 x Ø14	-1/+16 // -50/+200	PHM25/2000-P-O3

Optionen *Options*	
	Länge /XXXX - Beispiel PHM15/0600-K-O3 *Length /XXXX - Example PHM15/0600-K-O3*

- Medienschläuche werden als flexible Leitung beziehungsweise Anschluss für nicht-korrosive Medien und vor allem von Energien (Dampf, Kondensat, Wärmeträger und Kühlwasser) verwendet
- Die Wellschläuche werden mit einer Umflechtung und Anschlussflanschen aus Edelstahl ausgeführt
- mit Flanschen nach EN 1092-1, PN40
- Als Anschlussflanschverbindung wird für EN-Flansche eine CAPE-Anschlussverbindung mit Stahlkerndichtung CGS und Ringdichtung empfohlen
- Ein Verbindungelement und Dichtung gehören nicht zum Lieferumfang und können im Kapitel „Verbindungen" ausgesucht werden
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+16 barg
- Material Produktschlauch: Edelstahl
- Material Medien berührend: Edelstahl

- *Media hoses are used as a flexible line or connection for non-corrosive media and especially of energies (steam, condensate, heat transfer media and cooling water)*
- *The corrugated hoses are designed with a braiding and connection flanges made of stainless steel*
- *With flanges according to EN 1092-1, PN40*
- *A CAPE connection with steel cone seal CGS and ring seal is recommended as the connecting flange connection for EN flanges*
- *A connecting element and gasket are not included in the delivery and can be selected in the chapter 'Connections'*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+16 barg*
- *Material product hose: stainless steel*
- *Material media in contact: stainless steel*"



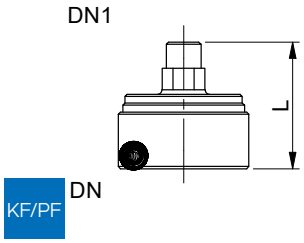
Metalladapter, 90°

Metal adapter, 90°

	DN	DN1	H [mm]	L [mm]	Art.-No.
KF/PF-System	10	M16 x 1	60	40	CM90/10/GM16x1
	15	M16 x 1	60	40	CM90/15/GM16x1
	15	M24 x 1,5	60	40	CM90/15/GM24x1,5
	25	M16 x 1	65	40	CM90/25/GM16x1
	25	M24 x 1,5	65	40	CM90/25/GM24x1,5
	25	M30 x 1,5	70	45	CM90/25/GM30x1,5
	25	M38 x 1,5	80	50	CM90/25/GM38x1,5

- Für den Anschluss von isolierten Temperierschläuchen an Glasflansche PF und KF
- Werkzeuglose Montage möglich
- Dichtungen gehören nicht zum Lieferumfang und können auf den folgenden Seiten ausgesucht werden
- 90° Winkel für eine bessere Strömung als gebogenes Rohr ausgeführt
- Zulässige Betriebstemperatur: -100...+350°C
- Zulässiger Betriebsdruck: 0...+5 barg
- Material Adapter: Edelstahl, 1.4301
- Material Temperierflüssigkeit berührend: Edelstahl 1.4404

- *For the connection of insulated temperature control hoses to glass flanges PF and KF*
- *Tool-less assembly possible*
- *Seals are not included in the scope of delivery on the following pages*
- *90° angle for better flow designed as a bent pipe*
- *Permissible operating temperature: -100...+350°C*
- *Permissible operating pressure: 0...+5 barg*
- *Material adapter: stainless steel*
- *Material in contact with heat transfer fluid: stainless steel 1.4301*



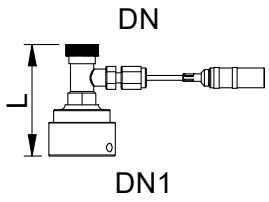
Metalladapter, gerade

Metal adapter, straight

	DN	DN1	H [mm]	Art.-No.
KF/PF-System	10	M16 x 1	40	CM10/GM16x1
	15	M16 x 1	40	CM15/GM16x1
	25	M16 x 1	55	CM25/GM16x1
	25	M24x1,5	60	CM25/GM24x1,5
	25	M30 x 1,5	60	CM25/GM30x1,5

- Für den Anschluss von isolierten Temperierschläuchen an Glasflansche PF und KF
- Werkzeuglose Montage möglich
- Dichtungen gehören nicht zum Lieferumfang und können auf den folgenden Seiten ausgesucht werden
- Zulässige Betriebstemperatur: -100...+350°C
- Zulässiger Betriebsdruck: 0...+5 barg
- Material Adapter: Edelstahl, 1.4301
- Material Temperierflüssigkeit berührend: Edelstahl 1.4404

- *For the connection of insulated temperature control hoses to glass flanges PF and KF*
- *Tool-less assembly possible*
- *Seals are not included in the scope of delivery on the following pages*
- *Permissible operating temperature: -100...+350°C*
- *Permissible operating pressure: 0...+5 barg*
- *Material adapter: stainless steel 1.4301*
- *Material in contact with heat transfer fluid: stainless steel 1.4404*



Metalladapter, gerade, mit Pt100-Anschluss

Metal adapter, straight, with Pt100 connection

	DN	DN1	H [mm]	Art.-No.
KF/PF-System	10	M16 x 1	40	CMT10/GM16x1
	15	M16 x 1	40	CMT15/GM16x1
	25	M16 x 1	55	CMT25/GM16x1
	25	M24 x 1,5	60	CMT25/GM24x1,5
	25	M30 x 1,5	60	CMT25/GM30x1,5

- Für den Anschluss von isolierten Temperierschläuchen an Glasflansche PF und KF
- Werkzeuglose Montage möglich
- Dichtungen gehören nicht zum Lieferumfang und können auf den folgenden Seiten ausgesucht werden
- Anschluss für Pt100 Wiederstandthermometer ohne Schutzrohr
- Passende Sensoren finden Sie im Kapitel Mess- und Regeltechnik
- Zulässige Betriebstemperatur: -100...+350°C
- Zulässiger Betriebsdruck: 0...+5 barg
- Material Adapter: Edelstahl, 1.4301
- Material Temperierflüssigkeit berührend: Edelstahl 1.4404

- *For the connection of insulated temperature control hoses to glass flanges PF and KF*
- *Tool-less assembly possible*
- *Seals are not included in the scope of delivery on the following pages*
- *Connection for Pt100 resistance thermometer without protection pipe*
- *Suitable sensors can be found in the chapter measuring and control technology*
- *Permissible operating temperature: -100...+350°C*
- *Permissible operating pressure: 0...+5 barg*
- *Material adapter: stainless steel*
- *Material in contact with heat transfer fluid: stainless steel 1.4301*

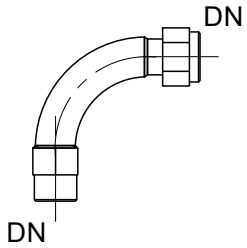
Dichtung, Metalladapter

Gasket, metal adapter

	DN	Art.-No.
KF/PF-System	10	CMG010
	15	CMG015
	25	CMG025
	10	CMGH010
	15	CMGH015
	25	CMGH025

- Werden für Metalladapter benötigt
- Zulässige Betriebstemperatur CMG: -100...+250°C
- Zulässiger Betriebsdruck CMG: 0...5 barg
- Material Dichtung CMG: KLINGERSIL C-4400
- Material Temperierflüssigkeit berührend: Aramidfasern, gebunden mit NBR
- Zulässige Betriebstemperatur CMGH: -100...+350°C
- Zulässiger Betriebsdruck CMGH: 0...+5 barg
- Material Dichtung CMGH: KLINGER Graphit Laminat SLS
- Material Temperierflüssigkeit berührend: Graphit, Edelstahl

- *Are required for metal adapter*
- *Connection for Pt100 resistance thermometer without thermowell*
- *Permissible operating temperature CMG: -100...+250°C*
- *Permissible operating pressure CMG: 0... 5 barg*
- *Material seal CMG: KLINGERSIL C-4400*
- *Material temperature control liquid in contact: Aramid fibers, bonded with NBR*
- *Permissible operating temperature CMGH: -100...+350°C*
- *Permissible operating pressure CMGH: 0...+5 barg*
- *Material seal CMGH: KLINGER graphite laminate SLS*
- *Material temperature control liquid in contact: graphite, stainless steel*



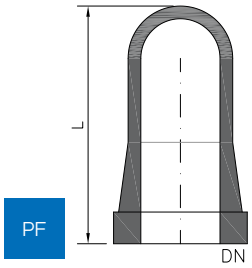
Winkelstück, 90°

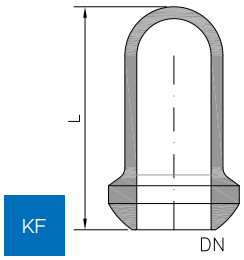
Angle piece, 90°

DN	DN1	Art.-No.
GM16 x 1	IM16 x 1	CMA90/GM16x1
GM24 x 1,5	IM24 x 1,5	CMA90/GM24x1,5
GM30 x 1,5	IM30 x 1,5	CMA90/GM30x1,5

- Für den Anschluss von isolierten Temperierschläuche an Glasflansche PF und KF
- keine Dichtung erforderlich
- 90° Winkel für eine bessere Strömung als gebogenes Rohr ausgeführt
- Zulässige Betriebstemperatur: -100...+350°C
- Zulässiger Betriebsdruck: 0...+5 barg
- Material Adapter: Edelstahl, 1.4301
- Material Temperierflüssigkeit berührend: Edelstahl 1.4404

- *For the connection of insulated temperature control hoses to glass flanges PF and KF*
- *No seal required*
- *90° angle for better flow designed as a bent pipe*
- *Permissible operating temperature: -100...+350°C*
- *Permissible operating pressure: 0...+5 barg*
- *Material adapter: stainless steel 1.4301*
- *Material in contact with heat transfer fluid: stainless steel 1.4404*



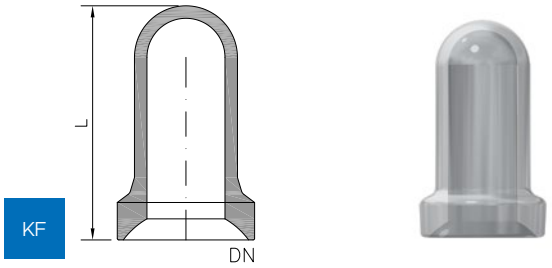


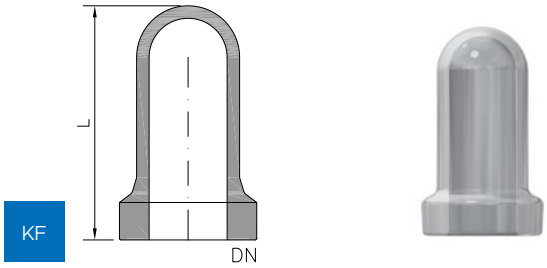
Blindflansch

Blind flange

	DN	L [mm]	Art.-No. Kugel/ball	Art.-No. Pfanne/cup	Art.-No. Plan/flat
KF-System	15	40	PC015-F1	PC015-F2	PC015-F3
	25	75	PC025-F1	PC025-F2	PC025-F3
	40	75	PC040-F1	PC040-F2	PC040-F3
	50	100	PC050-F1	PC050-F2	PC050-F3
	80	110	PC080-F1	PC080-F2	PC080-F3
	100	145	PC100-F1	PC100-F2	PC100-F3
	150	125	PC150-F1	PC150-F2	PC150-F3
	200	120	PC200-F1	PC200-F2	PC200-F3
	300	170	PC300-F1	PC300-F2	PC300-F3
PF-System	15	40			PC015-P
	25	75			PC025-P
	40	75			PC040-P
	50	100			PC050-P
	80	110			PC080-P
	100	145			PC100-P
	150	125			PC150-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PC050-F3-C3 *Coating dissipative -C3 - Example PC050-F3-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PC050-F3-C4 *Coating UV protection brown -C4 - Example PC050-F3-C4*

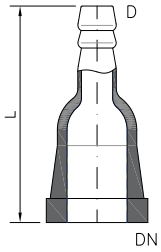




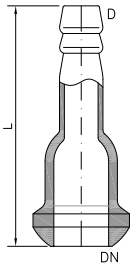
- Blindflansche werden meist zum Verschluss von Rohrleitungen oder offenen Reservestutzen verwendet
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- Material produktberührend: Borosilikatglas 3.3

- *Blind flanges are mostly used for closing pipelines or open spare nozzles*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050,
  -1...+3 barg DN080, -1...+2 barg DN100-150,
  -1...+1 barg DN200-300
- *Material product contacting: borosilicate glass 3.3*

PF



KF



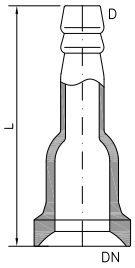
Adapter, symmetrisch, KF/PF, Schlauch

Adapter, symmetrical, KF/PF, hose

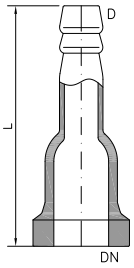
	DN	Ød	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	11	60	PA15/H11-F1	PA15/H11-K	PA15/H11-F3
	15	16	80	PA15/H16-F1	PA15/H16-K	PA15/H16-F3
	15	20	80	PA15/H20-F1	PA15/H20-K	PA15/H20-F3
	25	11	80	PA25/H11-F1	PA25/H11-K	PA25/H11-F3
	25	16	80	PA25/H16-F1	PA25/H16-K	PA25/H16-F3
	25	20	90	PA25/H20-F1	PA25/H20-K	PA25/H20-F3
	25	26	90	PA25/H26-F1	PA25/H26-K	PA25/H26-F3
	40	16	90	PA40/H16-F1	PA40/H16-K	PA40/H16-F3
	40	20	100	PA40/H20-F1	PA40/H20-K	PA40/H20-F3
	40	26	100	PA40/H26-F1	PA40/H26-K	PA40/H26-F3
PF-System	15	11	60			PA15/H11-P
	15	16	80			PA15/H16-P
	15	20	80			PA15/H20-P
	25	11	80			PA25/H11-P
	25	16	80			PA25/H16-P
	25	20	90			PA25/H20-P
	25	26	100			PA25/H26-P
	40	16	100			PA40/H16-P
	40	20	100			PA40/H20-P
	40	26	100			PA40/H26-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/H20-F1-C3 *Coating dissipative -C3 - Example PA25/H20-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/H20-F1-C4 *Coating UV protection brown -C4 - Example PA25/H20-F1-C4*

KF

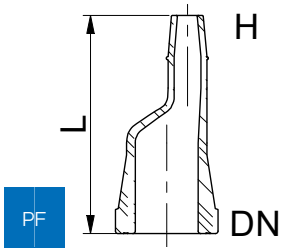


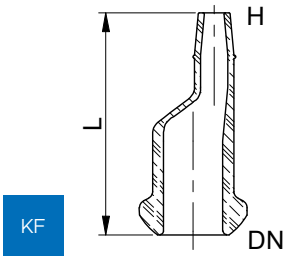
KF



- Schlauchanschlüsse werden zur Entleerung oder zum Anschluss von aufsteckbaren Schläuchen verwendet
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *Hose connections are used for draining or for connecting attachable hoses*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: borosilicate glass 3.3*



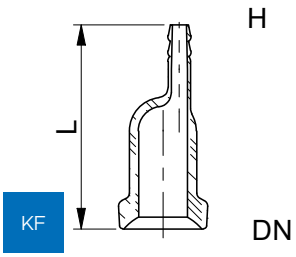


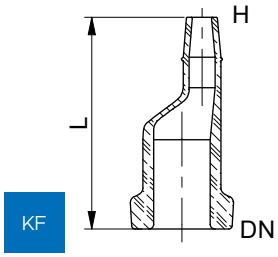
Adapter, exzentrisch, KF/PF, Schlauch

Adapter, excentric, KF/PF, hose

	DN	Ød	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	11	60	PA15/HE11-F1	PA15/HE11-K	PA15/HE11-F3
	15	16	80	PA15/HE16-F1	PA15/HE16-K	PA15/HE16-F3
	15	20	80	PA15/HE20-F1	PA15/HE20-K	PA15/HE20-F3
	25	11	80	PA25/HE11-F1	PA25/HE11-K	PA25/HE11-F3
	25	16	80	PA25/HE16-F1	PA25/HE16-K	PA25/HE16-F3
	25	20	100	PA25/HE20-F1	PA25/HE20-K	PA25/HE20-F3
	25	26	100	PA25/HE26-F1	PA25/HE26-K	PA25/HE26-F3
	40	16	100	PA40/HE16-F1	PA40/HE16-K	PA40/HE16-F3
	40	20	100	PA40/HE20-F1	PA40/HE20-K	PA40/HE20-F3
	40	26	100	PA40/HE26-F1	PA40/HE26-K	PA40/HE26-F3
PF-System	15	11	60			PA15/HE11-P
	15	16	80			PA15/HE16-P
	15	20	80			PA15/HE20-P
	25	11	80			PA25/HE11-P
	25	16	80			PA25/HE16-P
	25	20	100			PA25/HE20-P
	25	26	100			PA25/HE26-P
	40	16	100			PA40/HE16-P
	40	20	100			PA40/HE20-P
	40	26	100			PA40/HE26-P

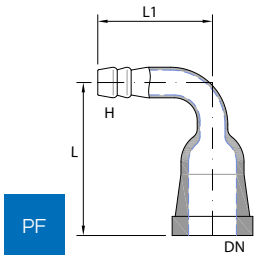
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/HE20-F1-C3 *Coating dissipative -C3 - Example PA25/HE20-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/HE20-F1-C4 *Coating UV protection brown -C4 - Example PA25/HE20-F1-C4*

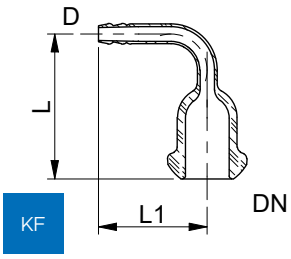




- Schlauchanschlüsse werden zur Entleerung oder zum Anschluss von aufsteckbaren Schläuchen verwendet
- Exzentrisch für geringes hold-up Volumen
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *Hose connections are used for draining or for connecting attachable hoses*
- *Eccentric for low hold-up volume*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050
- *Material product contacting: borosilicate glass 3.3*



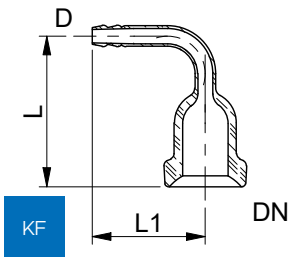


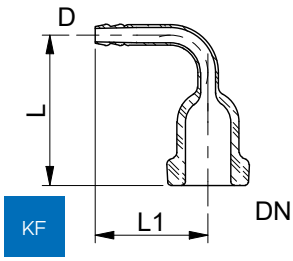
Adapter, 90°, symmetrisch, KF/ PF, Schlauch

Adapter, 90°, symmetrical, KF/ PF, hose

	DN	ØH	L [mm]	L1 [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	11	60	60	PA90/15/H11-F1	PA90/15/H11-K	PA90/15/H11-F3
	15	16	60	60	PA90/15/H16-F1	PA90/15/H16-K	PA90/15/H16-F3
	15	20	60	60	PA90/15/H20-F1	PA90/15/H20-K	PA90/15/H20-F3
	25	11	80	60	PA90/25/H11-F1	PA90/25/H11-K	PA90/25/H11-F3
	25	16	80	60	PA90/25/H16-F1	PA90/25/H16-K	PA90/25/H16-F3
	25	20	80	60	PA90/25/H20-F1	PA90/25/H20-K	PA90/25/H20-F3
	25	26	80	80	PA90/25/H26-F1	PA90/25/H26-K	PA90/25/H26-F3
	40	16	90	90	PA90/40/H16-F1	PA90/40/H16-K	PA90/40/H16-F3
	40	20	90	90	PA90/40/H20-F1	PA90/40/H20-K	PA90/40/H20-F3
	40	26	90	90	PA90/40/H26-F1	PA90/40/H26-K	PA90/40/H26-F3
PF-System	15	11	60	60			PA90/15/H11-P
	15	16	60	60			PA90/15/H16-P
	15	20	60	60			PA90/15/H20-P
	25	11	80	60			PA90/25/H11-P
	25	16	80	60			PA90/25/H16-P
	25	20	80	60			PA90/25/H20-P
	25	26	80	80			PA90/25/H26-P
	40	16	90	90			PA90/40/H16-P
	40	20	90	90			PA90/40/H20-P
	40	26	90	90			PA90/40/H26-P

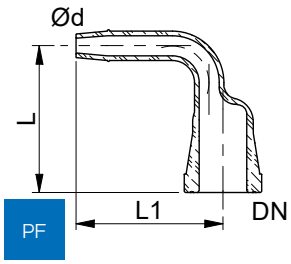
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA90/25/H20-F1-C3 *Coating dissipative -C3 - Example PA90/25/H20-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/25/H20-F1-C4 *Coating UV protection brown -C4 - Example PA90/25/H20-F1-C4*

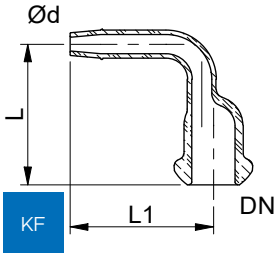




- Schlauchanschlüsse werden zur Entleerung oder zum Anschluss von aufsteckbaren Schläuchen verwendet
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *Hose connections are used for draining or for connecting attachable hoses*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: borosilicate glass 3.3*



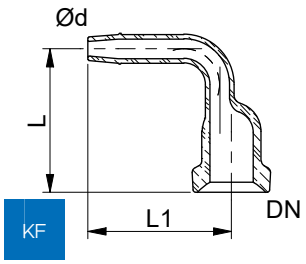


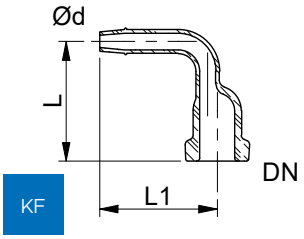
Adapter, 90°, exzentrisch, KF/PF, Schlauch

Adapter, 90°, excentric, KF/PF, hose

	DN	Ød	L [mm]	L1 [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	11	60	60	PA90/15/HE11-F1	PA90/15/HE11-K	PA90/15/HE11-F3
	15	16	60	60	PA90/15/HE16-F1	PA90/15/HE16-K	PA90/15/HE16-F3
	15	20	60	60	PA90/15/HE20-F1	PA90/15/HE20-K	PA90/15/HE20-F3
	25	11	80	60	PA90/25/HE11-F1	PA90/25/HE11-K	PA90/25/HE11-F3
	25	16	80	60	PA90/25/HE16-F1	PA90/25/HE16-K	PA90/25/HE16-F3
	25	20	80	60	PA90/25/HE20-F1	PA90/25/HE20-K	PA90/25/HE20-F3
	25	26	80	80	PA90/25/HE26-F1	PA90/25/HE26-K	PA90/25/HE26-F3
	40	16	90	90	PA90/40/HE16-F1	PA90/40/HE16-K	PA90/40/HE16-F3
	40	20	90	90	PA90/40/HE20-F1	PA90/40/HE20-K	PA90/40/HE20-F3
	40	26	90	90	PA90/40/HE26-F1	PA90/40/HE26-K	PA90/40/HE26-F3
PF-System	15	11	60	60			PA90/15/HE11-P
	15	16	60	60			PA90/15/HE16-P
	15	20	60	60			PA90/15/HE20-P
	25	11	80	60			PA90/25/HE11-P
	25	16	80	60			PA90/25/HE16-P
	25	20	80	60			PA90/25/HE20-P
	25	26	80	80			PA90/25/HE26-P
	40	16	90	90			PA90/40/HE16-P
	40	20	90	90			PA90/40/HE20-P
	40	26	90	90			PA90/40/HE26-P

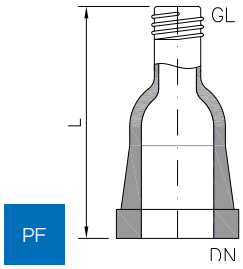
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA90/25/HE20-F1-C3 *Coating dissipative -C3 - Example PA90/25/HE20-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/25/HE20-F1-C4 *Coating UV protection brown -C4 - Example PA90/25/HE20-F1-C4*

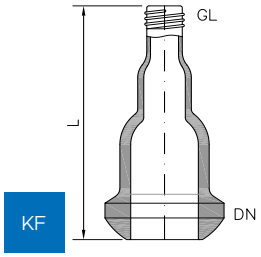




- Schlauchanschlüsse werden zur Entleerung oder zum Anschluss von aufsteckbaren Schläuchen verwendet
- Exzentrisch für geringes hold-up Volumen
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *Hose connections are used for draining or for connecting attachable hoses*
- *Eccentric for low hold-up volume*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050
- *Material product contacting: borosilicate glass 3.3*



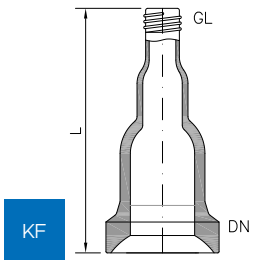


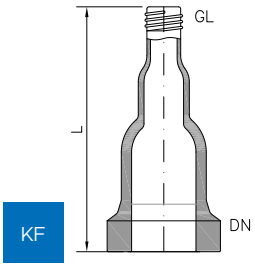
Adapter, symmetrisch, KF/PF, GL

Adapter, symmetrical, KF/PF, glass thread GL

	DN	GL	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	14	60	PA15/GL14-F1	PA15/GL14-K	PA15/GL14-F3
	15	18	80	PA15/GL18-F1	PA15/GL18-K	PA15/GL18-F3
	15	25	80	PA15/GL25-F1	PA15/GL25-K	PA15/GL25-F3
	25	14	80	PA25/GL14-F1	PA25/GL14-K	PA25/GL14-F3
	25	18	80	PA25/GL18-F1	PA25/GL18-K	PA25/GL18-F3
	25	25	80	PA25/GL25-F1	PA25/GL25-K	PA25/GL25-F3
	25	32	90	PA25/GL32-F1	PA25/GL32-K	PA25/GL32-F3
	40	18	90	PA40/GL18-F1	PA40/GL18-K	PA40/GL18-F3
	40	25	90	PA40/GL25-F1	PA40/GL25-K	PA40/GL25-F3
	40	32	100	PA40/GL32-F1	PA40/GL32-K	PA40/GL32-F3
	40	45	100	PA40/GL45-F1	PA40/GL45-K	PA40/GL45-F3
PF-System	15	14	60			PA15/GL14-P
	15	18	80			PA15/GL18-P
	15	25	80			PA15/GL25-P
	25	14	80			PA25/GL14-P
	25	18	80			PA25/GL18-P
	25	25	90			PA25/GL25-P
	25	32	90			PA25/GL32-P
	40	18	100			PA40/GL18-P
	40	25	100			PA40/GL25-P
	40	32	100			PA40/GL32-P
	40	45	100			PA40/GL45-P

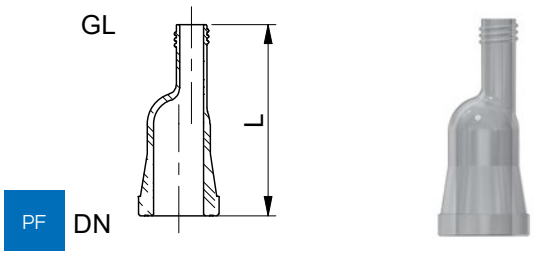
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/GL25-F1-C3 *Coating dissipative -C3 - Example PA25/GL25-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/GL25-F1-C4 *Coating UV protection brown -C4 - Example PA25/GL25-F1-C4*

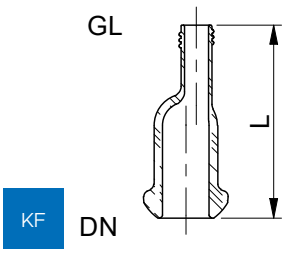




- GL-Anschlüsse werden für viele weitere Zubehörteile verwendet
- Zubehörteile GL sind in Kapitel „Verbindungen" zu finden
- Zulässige Betriebstemperatur: -50…+200°C
- Zulässiger Betriebsdruck:
  -1…+6 barg DN015-025, -1…+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *GL-connections are used for many other accessories*
- *GL-accessories can be found in the „Connections" chapter*
- *Permissible operating temperature: -50…+200°C*
- *Permissible operating pressure:*
  -1…+6 barg DN015-025, -1…+4 barg DN040-050
- *Material product contacting: borosilicate glass 3.3*



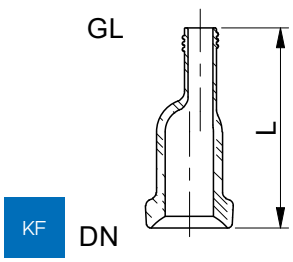


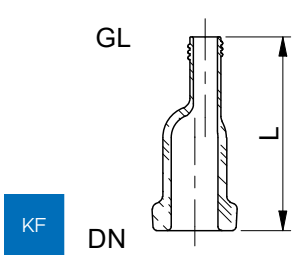
Adapter, exzentrisch, KF/PF, GL

Adapter, excentric, KF/PF, glass thread GL

	DN	GL	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	14	60	PA15/GLE14-F1	PA15/GLE14-K	PA15/GLE14-F3
	15	18	80	PA15/GLE18-F1	PA15/GLE18-K	PA15/GLE18-F3
	15	25	80	PA15/GLE25-F1	PA15/GLE25-K	PA15/GLE25-F3
	25	14	80	PA25/GLE14-F1	PA25/GLE14-K	PA25/GLE14-F3
	25	18	90	PA25/GLE18-F1	PA25/GLE18-K	PA25/GLE18-F3
	25	25	90	PA25/GLE25-F1	PA25/GLE25-K	PA25/GLE25-F3
	25	32	90	PA25/GLE32-F1	PA25/GLE32-K	PA25/GLE32-F3
	40	18	90	PA40/GLE18-F1	PA40/GLE18-K	PA40/GLE18-F3
	40	25	90	PA40/GLE25-F1	PA40/GLE25-K	PA40/GLE25-F3
	40	32	100	PA40/GLE32-F1	PA40/GLE32-K	PA40/GLE32-F3
	40	45	100	PA40/GLE45-F1	PA40/GLE45-K	PA40/GLE45-F3
PF-System	15	14	60			PA15/GLE14-P
	15	18	80			PA15/GLE18-P
	15	25	80			PA15/GLE25-P
	25	14	80			PA25/GLE14-P
	25	18	80			PA25/GLE18-P
	25	25	90			PA25/GLE25-P
	25	32	90			PA25/GLE32-P
	40	18	100			PA40/GLE18-P
	40	25	100			PA40/GLE25-P
	40	32	100			PA40/GLE32-P
	40	45	100			PA40/GLE45-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/GLE25-F1-C3 Coating dissipative -C3 - Example PA25/GLE25-F1-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/GLE25-F1-C4 Coating UV protection brown -C4 - Example PA25/GLE25-F1-C4

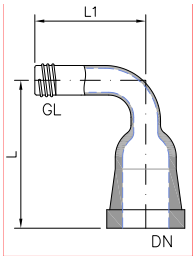




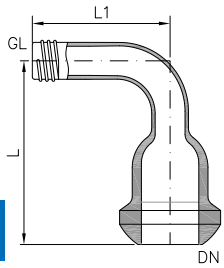
- GL-Anschlüsse werden für viele weitere Zubehörteile verwendet
- Zubehörteile GL sind in Kapitel „Verbindungen" zu finden
- Exzentrisch für geringes hold-up Volumen
- Zulässige Betriebstemperatur: -50…+200°C
- Zulässiger Betriebsdruck:
  -1…+6 barg DN015-025, -1…+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *GL-connections are used for many other accessories*
- *GL-accessories can be found in the „Connections" chapter*
- *Eccentric for low hold-up volume*
- *Permissible operating temperature: -50…+200°C*
- *Permissible operating pressure:*
  -1…+6 barg DN015-025, -1…+4 barg DN040-050
- *Material product contacting: borosilicate glass 3.3*

PF



KF



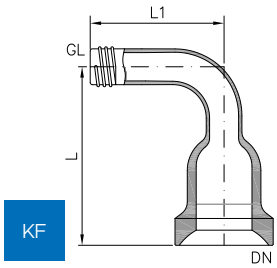
Adapter, 90°, symmetrisch, KF/ PF, GL

Adapter, 90°, symmetrical, KF/ PF, glass thread GL

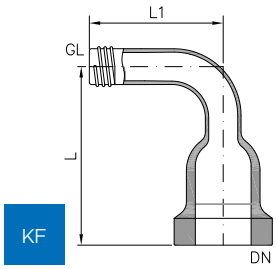
	DN	GL	L [mm]	L1 [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	14	60	60	PA90/15/GL14-F1	PA90/15/GL14-K	PA90/15/GL14-F3
	15	18	60	60	PA90/15/GL18-F1	PA90/15/GL18-K	PA90/15/GL18-F3
	15	25	60	60	PA90/15/GL25-F1	PA90/15/GL25-K	PA90/15/GL25-F3
	25	14	80	60	PA90/25/GL14-F1	PA90/25/GL14-K	PA90/25/GL14-F3
	25	18	80	60	PA90/25/GL18-F1	PA90/25/GL18-K	PA90/25/GL18-F3
	25	25	80	80	PA90/25/GL25-F1	PA90/25/GL25-K	PA90/25/GL25-F3
	25	32	80	80	PA90/25/GL32-F1	PA90/25/GL32-K	PA90/25/GL32-F3
	40	18	90	90	PA90/40/GL18-F1	PA90/40/GL18-K	PA90/40/GL18-F3
	40	25	90	90	PA90/40/GL25-F1	PA90/40/GL25-K	PA90/40/GL25-F3
	40	32	90	90	PA90/40/GL32-F1	PA90/40/GL32-K	PA90/40/GL32-F3
	40	45	90	90	PA90/40/GL45-F1	PA90/40/GL45-K	PA90/40/GL45-F3
PF-System	15	14	60	60			PA90/15/GL14-P
	15	18	60	60			PA90/15/GL18-P
	15	25	60	60			PA90/15/GL25-P
	25	14	80	60			PA90/25/GL14-P
	25	18	80	60			PA90/25/GL18-P
	25	25	80	80			PA90/25/GL25-P
	25	32	80	80			PA90/25/GL32-P
	40	18	90	90			PA90/40/GL18-P
	40	25	90	90			PA90/40/GL25-P
	40	32	90	90			PA90/40/GL32-P
	40	45	90	90			PA90/40/GL45-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA90/25/GL25-F1-C3 *Coating dissipative -C3 - Example PA90/25/GL25-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/25/GL25-F1-C4 *Coating UV protection brown -C4 - Example PA90/25/GL25-F1-C4*

KF

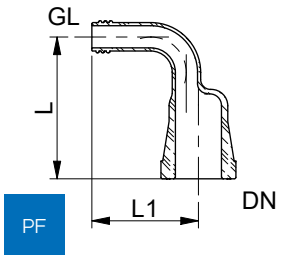


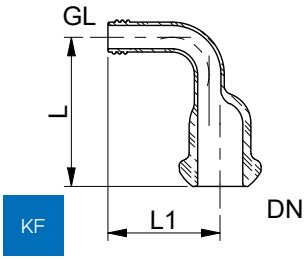
KF



- GL-Anschlüsse werden für viele weitere Zubehörteile verwendet
- Zubehörteile GL sind in Kapitel „Verbindungen" zu finden
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck:
  -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *GL-connections are used for many other accessories*
- *GL-accessories can be found in the „Connections" chapter*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure:*
  -1...+6 barg DN015-025, -1...+4 barg DN040-050
- *Material product contacting: borosilicate glass 3.3*



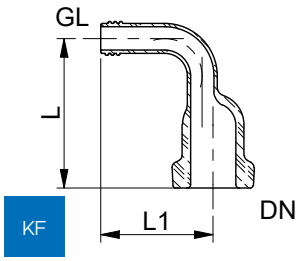


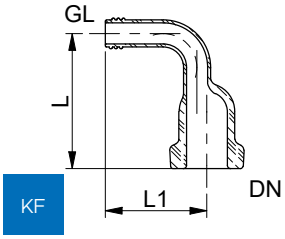
Adapter, 90°, exzentrisch, KF/PF, GL

Adapter, 90°, excentric, KF/PF, glass thread GL

	DN	GL	L [mm]	L1 [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	14	60	60	PA90/15/GLE14-F1	PA90/15/GLE14-K	PA90/15/GLE14-F3
	15	18	60	60	PA90/15/GLE18-F1	PA90/15/GLE18-K	PA90/15/GLE18-F3
	15	25	60	60	PA90/15/GLE25-F1	PA90/15/GLE25-K	PA90/15/GLE25-F3
	25	14	80	80	PA90/25/GLE14-F1	PA90/25/GLE14-K	PA90/25/GLE14-F3
	25	18	80	80	PA90/25/GLE18-F1	PA90/25/GLE18-K	PA90/25/GLE18-F3
	25	25	80	80	PA90/25/GLE25-F1	PA90/25/GLE25-K	PA90/25/GLE25-F3
	25	32	80	80	PA90/25/GLE32-F1	PA90/25/GLE32-K	PA90/25/GLE32-F3
	40	18	90	90	PA90/40/GLE18-F1	PA90/40/GLE18-K	PA90/40/GLE18-F3
	40	25	90	90	PA90/40/GLE25-F1	PA90/40/GLE25-K	PA90/40/GLE25-F3
	40	32	90	90	PA90/40/GLE32-F1	PA90/40/GLE32-K	PA90/40/GLE32-F3
	40	45	90	90	PA90/40/GLE45-F1	PA90/40/GLE45-K	PA90/40/GLE45-F3
PF-System	15	14	60	60			PA90/15/GLE14-P
	15	18	60	60			PA90/15/GLE18-P
	15	25	60	60			PA90/15/GLE25-P
	25	14	80	80			PA90/25/GLE14-P
	25	18	80	80			PA90/25/GLE18-P
	25	25	80	80			PA90/25/GLE25-P
	25	32	80	80			PA90/25/GLE32-P
	40	18	90	90			PA90/40/GLE18-P
	40	25	90	90			PA90/40/GLE25-P
	40	32	90	90			PA90/40/GLE32-P
	40	45	90	90			PA90/40/GLE45-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA90/25/GLE25-F1-C3 *Coating dissipative -C3 - Example PA90/25/GLE25-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/25/GLE25-F1-C4 *Coating UV protection brown -C4 - Example PA90/25/GLE25-F1-C4*

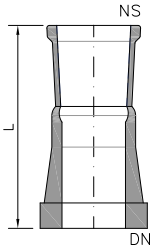




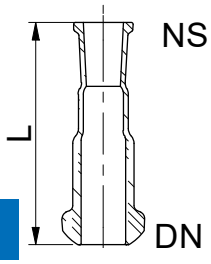
- GL-Anschlüsse werden für viele weitere Zubehörteile verwendet
- Zubehörteile GL sind in Kapitel „Verbindungen" zu finden
- Exzentrisch für geringes hold-up Volumen
- Zulässige Betriebstemperatur: -50…+200°C
- Zulässiger Betriebsdruck:
  -1…+6 barg DN015-025, -1…+4 barg DN040-050
- Material produktberührend: Borosilikatglas 3.3

- *GL-connections are used for many other accessories*
- *GL-accessories can be found in the „Connections" chapter*
- *Eccentric for low hold-up volume*
- *Permissible operating temperature: -50…+200°C*
- *Permissible operating pressure:*
  -1…+6 barg DN015-025, -1…+4 barg DN040-050
- *Material product contacting: borosilicate glass 3.3*

PF



KF



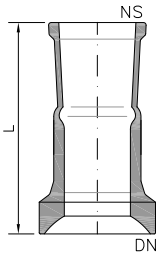
Adapter, symmetrisch, KF/PF, NS-Hülse

Adapter, symmetrical, KF/PF, NS-sleeve

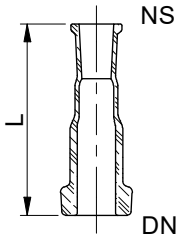
	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	10/30	80			PA15/NSS1030-P
	15	14/23	80			PA15/NSS1423-P
	15	14/35	80			PA15/NSS1435-P
	15	19/26	80			PA15/NSS1926-P
	15	24/40	100			PA15/NSS2440-P
	15	29/32	100			PA15/NSS2932-P
	15	29/42	100			PA15/NSS2942-P
	25	10/30	100			PA25/NSS1030-P
	25	14/23	90			PA25/NSS1423-P
	25	14/35	90			PA25/NSS1435-P
	25	19/26	100			PA25/NSS1926-P
	25	24/40	120			PA25/NSS2440-P
	25	29/32	120			PA25/NSS2932-P
	25	29/42	120			PA25/NSS2942-P
	40	24/40	120			PA40/NSS2440-P
	40	29/32	110			PA40/NSS2932-P
	40	29/42	120			PA40/NSS2942-P
	40	45/40	120			PA40/NSS4540-P
	40	45/50	130			PA40/NSS4550-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/NSS2932-P-C3 *Coating dissipative -C3 - Example PA25/NSS2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/NSS2932-P-C4 *Coating UV protection brown -C4 - Example PA25/NSS2932-P-C4*

KF



KF

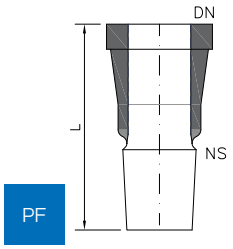


	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	10/30	80	PA15/NSS1030-F1	PA15/NSS1030-K	PA15/NSS1030-F3
	15	14/23	80	PA15/NSS1423-F1	PA15/NSS1423-K	PA15/NSS1423-F3
	15	14/35	80	PA15/NSS1435-F1	PA15/NSS1435-K	PA15/NSS1435-F3
	15	19/26	80	PA15/NSS1926-F1	PA15/NSS1926-K	PA15/NSS1926-F3
	15	24/40	100	PA15/NSS2440-F1	PA15/NSS2440-K	PA15/NSS2440-F3
	15	29/32	90	PA15/NSS2932-F1	PA15/NSS2932-K	PA15/NSS2932-F3
	15	29/42	100	PA15/NSS2942-F1	PA15/NSS2942-K	PA15/NSS2942-F3
	25	10/30	100	PA25/NSS1030-F1	PA25/NSS1030-K	PA25/NSS1030-F3
	25	14/23	80	PA25/NSS1423-F1	PA25/NSS1423-K	PA25/NSS1423-F3
	25	14/35	80	PA25/NSS1435-F1	PA25/NSS1435-K	PA25/NSS1435-F3
	25	19/26	90	PA25/NSS1926-F1	PA25/NSS1926-K	PA25/NSS1926-F3
	25	24/40	110	PA25/NSS2440-F1	PA25/NSS2440-K	PA25/NSS2440-F3
	25	29/32	100	PA25/NSS2932-F1	PA25/NSS2932-K	PA25/NSS2932-F3
	25	29/42	110	PA25/NSS2942-F1	PA25/NSS2942-K	PA25/NSS2942-F3
	40	24/40	120	PA40/NSS2440-F1	PA40/NSS2440-K	PA40/NSS2440-F3
	40	29/32	110	PA40/NSS2932-F1	PA40/NSS2932-K	PA40/NSS2932-F3
	40	29/42	120	PA40/NSS2942-F1	PA40/NSS2942-K	PA40/NSS2942-F3
	40	45/40	120	PA40/NSS4540-F1	PA40/NSS4540-K	PA40/NSS4540-F3
	40	45/50	130	PA40/NSS4550-F1	PA40/NSS4550-K	PA40/NSS4550-F3

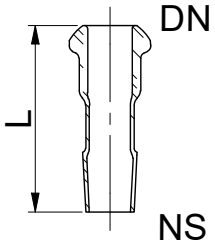
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/NSS2932-P-C3 *Coating dissipative -C3 - Example PA25/NSS2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/NSS2932-P-C4 *Coating UV protection brown -C4 - Example PA25/NSS2932-P-C4*

- NS-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit NS-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *NS-connections are used for many laboratory components*
- *Laboratory components with NS-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



PF



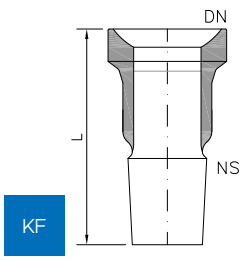
KF

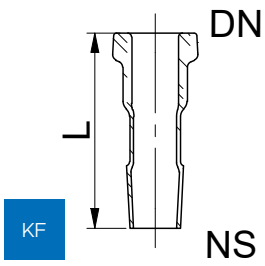
Adapter, symmetrisch, KF/PF, NS-Kern

Adapter, symmetrical, KF/PF, NS-cone

	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	10/30	90			PA15/NSC1030-P
	15	14/23	90			PA15/NSC1423-P
	15	14/35	90			PA15/NSC1435-P
	15	19/26	100			PA15/NSC1926-P
	15	24/40	110			PA15/NSC2440-P
	15	29/32	90			PA15/NSC2932-P
	15	29/42	100			PA15/NSC2942-P
	25	10/30	110			PA25/NSC1030-P
	25	14/23	110			PA25/NSC1423-P
	25	14/35	100			PA25/NSC1435-P
	25	19/26	110			PA25/NSC1926-P
	25	24/40	120			PA25/NSC2440-P
	25	29/32	100			PA25/NSC2932-P
	25	29/42	110			PA25/NSC2942-P
	40	24/40	130			PA40/NSC2440-P
	40	29/32	110			PA40/NSC2932-P
	40	29/42	120			PA40/NSC2942-P
	40	45/40	120			PA40/NSC4540-P
	40	45/50	130			PA40/NSC4550-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/NSC2932-P-C3 *Coating dissipative -C3 - Example PA25/NSC2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/NSC2932-P-C4 *Coating UV protection brown -C4 - Example PA25/NSC2932-P-C4*



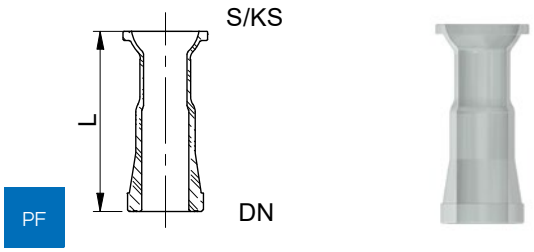


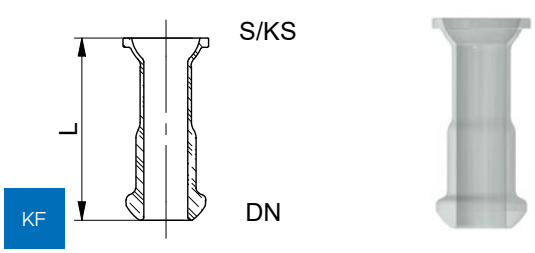
	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	10/30	90	PA15/NSC1030-F1	PA15/NSC1030-K	PA15/NSC1030-F3
	15	14/23	90	PA15/NSC1423-F1	PA15/NSC1423-K	PA15/NSC1423-F3
	15	14/35	90	PA15/NSC1435-F1	PA15/NSC1435-K	PA15/NSC1435-F3
	15	19/26	100	PA15/NSC1926-F1	PA15/NSC1926-K	PA15/NSC1926-F3
	15	24/40	11	PA15/NSC2440-F1	PA15/NSC2440-K	PA15/NSC2440-F3
	15	29/32	90	PA15/NSC2932-F1	PA15/NSC2932-K	PA15/NSC2932-F3
	15	29/42	100	PA15/NSC2942-F1	PA15/NSC2942-K	PA15/NSC2942-F3
	25	10/30	100	PA25/NSC1030-F1	PA25/NSC1030-K	PA25/NSC1030-F3
	25	14/23	100	PA25/NSC1423-F1	PA25/NSC1423-K	PA25/NSC1423-F3
	25	14/35	100	PA25/NSC1435-F1	PA25/NSC1435-K	PA25/NSC1435-F3
	25	19/26	100	PA25/NSC1926-F1	PA25/NSC1926-K	PA25/NSC1926-F3
	25	24/40	120	PA25/NSC2440-F1	PA25/NSC2440-K	PA25/NSC2440-F3
	25	29/32	100	PA25/NSC2932-F1	PA25/NSC2932-K	PA25/NSC2932-F3
	25	29/42	110	PA25/NSC2942-F1	PA25/NSC2942-K	PA25/NSC2942-F3
	40	24/40	130	PA40/NSC2440-F1	PA40/NSC2440-K	PA40/NSC2440-F3
	40	29/32	110	PA40/NSC2932-F1	PA40/NSC2932-K	PA40/NSC2932-F3
	40	29/42	120	PA40/NSC2942-F1	PA40/NSC2942-K	PA40/NSC2942-F3
	40	45/40	120	PA40/NSC4540-F1	PA40/NSC4540-K	PA40/NSC4540-F3
	40	45/50	130	PA40/NSC4550-F1	PA40/NSC4550-K	PA40/NSC4550-F3

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/NSC2932-P-C3 *Coating dissipative -C3 - Example PA25/NSC2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/NSC2932-P-C4 *Coating UV protection brown -C4 - Example PA25/NSC2932-P-C4*

- NS-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit NS-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *NS-connections are used for many laboratory components*
- *laboratory components with NS-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



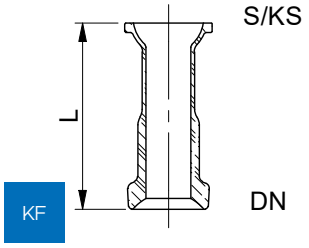


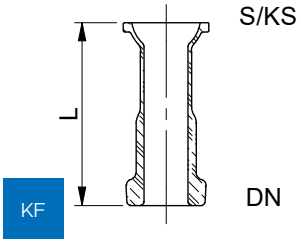
Adapter, symmetrisch, KF/PF, S/KS-Schale

Adapter, symmetrical, KF/PF, S/KS-cup

	DN	S/KS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	S 19/09	60			PA15/SC1909-P
	15	S 29/15	80			PA15/SC2915-P
	15	S 35/24	80			PA15/SC3524-P
	15	KS 18/09	60			PA15/KSC1809-P
	15	KS 28/15	60			PA15/KSC2815-P
	15	KS 35/25	80			PA15/KSC3525-P
	25	S 29/15	80			PA25/SC2915-P
	25	S 35/24	80			PA25/SC3524-P
	25	S 38/24	90			PA25/SC3824-P
	25	KS 28/15	80			PA25/KSC2815-P
	25	KS 35/25	80			PA25/KSC3525-P
	25	KS 50/30	100			PA25/KSC5030-P
	40	S 35/24	90			PA40/SC3524-P
	40	S 38/24	90			PA40/SC3824-P
	40	S 64/41	100			PA40/SC6441-P
	40	KS 28/15	80			PA40/KSC2815-P
	40	KS 35/25	90			PA40/KSC3525-P
	40	KS 50/30	100			PA40/KSC5030-P

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PA25/SC2915-F1-C3 *Coating dissipative -C3 - Example PA25/SC2915-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SC2915-F1-C4 *Coating UV protection brown -C4 - Example PA25/SC2915-F1-C4*



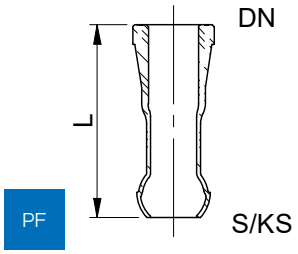


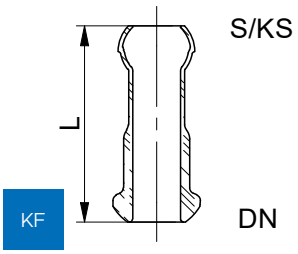
	DN	S/KS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	S 19/09	60	PA15/SC1909-F1	PA15/SC1909-K	PA15/SC1909-F3
	15	S 29/15	80	PA15/SC2915-F1	PA15/SC2915-K	PA15/SC2915-F3
	15	S 35/24	80	PA15/SC3524-F1	PA15/SC3524-K	PA15/SC3524-F3
	15	KS 18/09	60	PA15/KSC1809-F1	PA15/KSC1809-K	PA15/KSC1809-F3
	15	KS 28/15	60	PA15/KSC2815-F1	PA15/KSC2815-K	PA15/KSC2815-F3
	15	KS 35/25	80	PA15/KSC3525-F1	PA15/KSC3525-K	PA15/KSC3525-F3
	25	S 29/15	80	PA25/SC2915-F1	PA25/SC2915-K	PA25/SC2915-F3
	25	S 35/24	80	PA25/SC3524-F1	PA25/SC3524-K	PA25/SC3524-F3
	25	S 38/24	80	PA25/SC3824-F1	PA25/SC3824-K	PA25/SC3824-F3
	25	KS 28/15	80	PA25/KSC2815-F1	PA25/KSC2815-K	PA25/KSC2815-F3
	25	KS 35/25	80	PA25/KSC3525-F1	PA25/KSC3524-K	PA25/KSC3525-F3
	25	KS 50/30	80	PA25/KSC5030-F1	PA25/KSC5030-K	PA25/KSC5030-F3
	40	S 35/24	90	PA40/SC3524-F1	PA40/SC3524-K	PA40/SC3524-F3
	40	S 38/24	90	PA40/SC3824-F1	PA40/SC3824-K	PA40/SC3824-F3
	40	S 64/41	100	PA40/SC6441-F1	PA40/SC6441-K	PA40/SC6441-F3
	40	KS 28/15	80	PA40/KSC2815-F1	PA40/KSC2815-K	PA40/KSC2815-F3
	40	KS 35/25	90	PA40/KSC3525-F1	PA40/KSC3524-K	PA40/KSC3525-F3
	40	KS 50/30	100	PA40/KSC5030-F1	PA40/KSC5030-K	PA40/KSC5030-F3

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SC2915-F1-C3 *Coating dissipative -C3 - Example PA25/SC2915-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SC2915-F1-C4 *Coating UV protection brown -C4 - Example PA25/SC2915-F1-C4*

- S/KS-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit S/KS-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *S/KS-connections are used for many laboratory components*
- *Laboratory components with S/KS-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



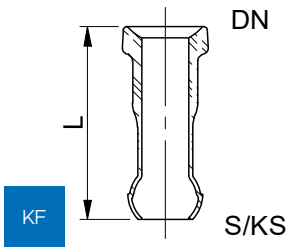


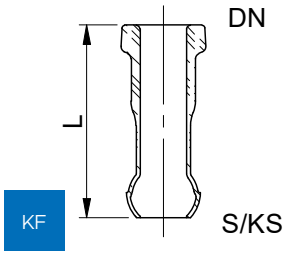
Adapter, symmetrisch, KF/PF, S/KS-Kugel

Adapter, symmetrical, KF/PF, S/KS-ball

	DN	S/KS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	S 19/09	80			PA15/SB1909-P
	15	S 29/15	80			PA15/SB2915-P
	15	S 35/24	80			PA15/SB3524-P
	15	KS 18/09	80			PA15/KSB1809-P
	15	KS 28/15	80			PA15/KSB2815-P
	15	KS 35/25	80			PA15/KSB3525-P
	25	S 29/15	90			PA25/SB2915-P
	25	S 35/24	90			PA25/SB3524-P
	25	S 38/24	100			PA25/SB3824-P
	25	KS 28/15	90			PA25/KSB2815-P
	25	KS 35/25	90			PA25/KSB3525-P
	25	KS 50/30	110			PA25/KSB5030-P
	40	S 35/24	90			PA40/SB3524-P
	40	S 38/24	100			PA40/SB3824-P
	40	S 64/41	120			PA40/SB6441-P
	40	KS 28/15	90			PA40/KSB2815-P
	40	KS 50/30	100			PA40/KSB5030-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SB2915-F1-C3 *Coating dissipative -C3 - Example PA25/SB2915-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SB2915-F1-C4 *Coating UV protection brown -C4 - Example PA25/SB2915-F1-C4*



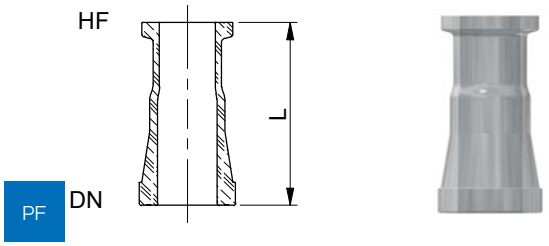


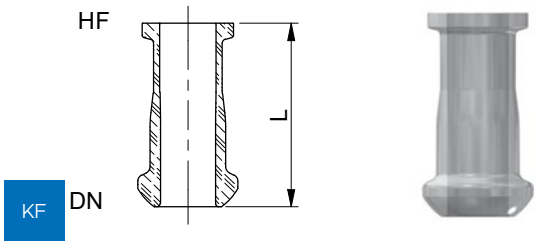
	DN	S/KS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	S 19/09	80	PA15/SB1909-F1	PA15/SB1909-K	PA15/SB1909-F3
	15	S 29/15	80	PA15/SB2915-F1	PA15/SB2915-K	PA15/SB2915-F3
	15	S 35/24	80	PA15/SB3524-F1	PA15/SB3524-K	PA15/SB3524-F3
	15	KS 18/09	80	PA15/KSB1809-F1	PA15/KSB1809-K	PA15/KSB1809-F3
	15	KS 28/15	80	PA15/KSB2815-F1	PA15/KSB2815-K	PA15/KSB2815-F3
	15	KS 35/25	80	PA15/KSB3525-F1	PA15/KSB3525-K	PA15/KSB3525-F3
	25	S 29/15	90	PA25/SB2915-F1	PA25/SB2915-K	PA25/SB2915-F3
	25	S 35/24	90	PA25/SB3524-F1	PA25/SB3524-K	PA25/SB3524-F3
	25	S 38/24	100	PA25/SB3824-F1	PA25/SB3824-K	PA25/SB3824-F3
	25	KS 28/15	80	PA25/KSB2815-F1	PA25/KSB2815-K	PA25/KSB2815-F3
	25	KS 35/25	80	PA25/KSB3525-F1	PA25/KSB3525-K	PA25/KSB3525-F3
	25	KS 50/30	100	PA25/KSB5030-F1	PA25/KSB5030-K	PA25/KSB5030-F3
	40	S 35/24	90	PA40/SB3524-F1	PA40/SB3524-K	PA40/SB3524-F3
	40	S 38/24	100	PA40/SB3824-F1	PA40/SB3824-K	PA40/SB3824-F3
	40	S 64/41	120	PA40/SB6441-F1	PA40/SB6441-K	PA40/SB6441-F3
	40	KS 28/15	90	PA40/KSB2815-F1	PA40/KSB2815-K	PA40/KSB2815-F3
	40	KS 35/25	90	PA40/KSB3525-F1	PA40/KSB3525-K	PA40/KSB3525-F3
	40	KS 50/30	100	PA40/KSB5030-F1	PA40/KSB5030-K	PA40/KSB5030-F3

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SB2915-F1-C3 *Coating dissipative -C3 - Example PA25/SB2915-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SB2915-F1-C4 *Coating UV protection brown -C4 - Example PA25/CB2915-F1-C4*

- S/KS-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit S/KS-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *S/KS-connections are used for many laboratory components*
- *laboratory components with S/KS-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



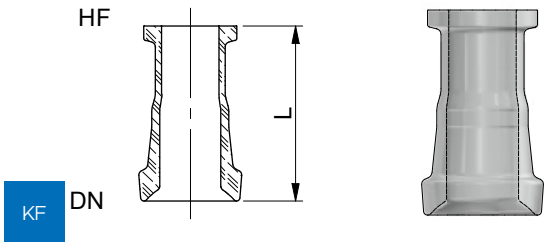


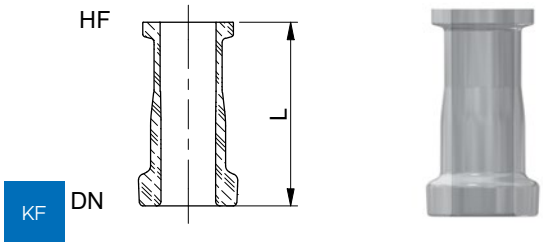
Adapter, symmetrisch, KF/PF, HF

Adapter, symmetrical, KF/PF, high vacuum flange

	DN	DN1	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	16	60	PA15/HFN16-F1	PA15/HFN16-K	PA15/HFN16-F3
	15	25	60	PA15/HFN25-F1	PA15/HFN25-K	PA15/HFN25-F3
	15	40	80	PA15/HFN40-F1	PA15/HFN40-K	PA15/HFN40-F3
	15	50	80	PA15/HFN50-F1	PA15/HFN50-K	PA15/HFN50-F3
	25	16	80	PA25/HFN16-F1	PA25/HFN16-K	PA25/HFN16-F3
	25	25	80	PA25/HFN25-F1	PA25/HFN25-K	PA25/HFN25-F3
	25	40	80	PA25/HFN40-F1	PA25/HFN40-K	PA25/HFN40-F3
	25	50	80	PA25/HFN50-F1	PA25/HFN50-K	PA25/HFN50-F3
	40	16	80	PA40/HFN16-F1	PA40/HFN16-K	PA40/HFN16-F3
	40	25	80	PA40/HFN25-F1	PA40/HFN25-K	PA40/HFN25-F3
	40	40	90	PA40/HFN40-F1	PA40/HFN40-K	PA40/HFN40-F3
	40	50	90	PA40/HFN50-F1	PA40/HFN50-K	PA40/HFN50-F3
PF-System	15	16	60			PA15/HFN16-P
	15	25	60			PA15/HFN25-P
	15	40	80			PA15/HFN40-P
	15	50	80			PA15/HFN50-P
	25	16	80			PA25/HFN16-P
	25	25	80			PA25/HFN25-P
	25	40	90			PA25/HFN40-P
	25	50	90			PA25/HFN50-P
	40	16	80			PA40/HFN16-P
	40	25	80			PA40/HFN25-P
	40	40	90			PA40/HFN40-P
	40	50	90			PA40/HFN50-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA15/HFN25-F1-C3 *Coating dissipative -C3 - Example PA15/HFN25-F1-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA15/HFN25-F1-C4 *Coating UV protection brown -C4 - Example PA15/HFN25-F1-C4*

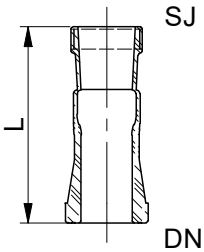




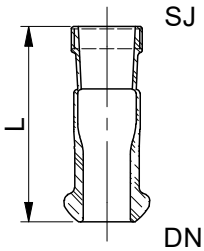
- HF-Anschlüsse werden für die Verbindungsleitungen zu Vakuumpumpen verwendet
- Zubehörteile HF sind in Kapitel „Verbindungen" zu finden
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *HF-connections are used for the connection lines to vacuum pumps*
- *HF-accessories can be found in chapter „Connections"*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

PF



KF

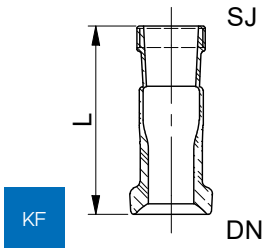


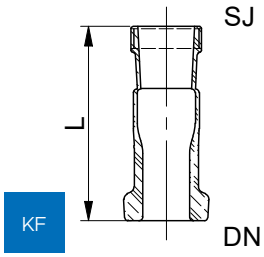
Adapter, symmetrisch, KF/PF, SJ-Hülse

Adapter, symmetrical, KF/PF, SJ-sleeve

	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	14/23	80			PA15/SJS1423-P
	15	19/26	80			PA15/SJS1926-P
	15	24/29	90			PA15/SJS2429-P
	15	29/32	90			PA15/SJS2932-P
	15	34/35	90			PA15/SJS3435-P
	15	45/40	100			PA15/SJS4540-P
	25	14/23	90			PA25/SJS1423-P
	25	19/26	100			PA25/SJS1926-P
	25	24/29	110			PA25/SJS2429-P
	25	29/32	110110			PA25/SJS2932-P
	25	34/35	120			PA25/SJS3435-P
	25	45/40	100			PA25/SJS4540-P
	40	14/23	90			PA40/SJS1423-P
	40	19/26	90			PA40/SJS1926-P
	40	24/29	110			PA40/SJS2429-P
	40	29/32	110			PA40/SJS2932-P
	40	34/35	110			PA40/SJS3435-P
	40	45/40	120			PA40/SJS4540-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SJS2932-P-C3 *Coating dissipative -C3 - Example PA25/SJS2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SJS2932-P-C4 *Coating UV protection brown -C4 - Example PA25/SJS2932-P-C4*



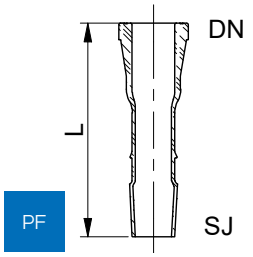


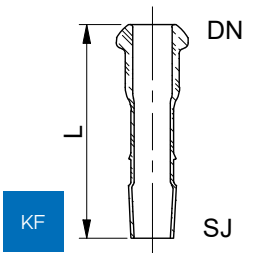
	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	14/23	80	PA15/SJS1423-F1	PA15/SJS1423-K	PA15/SJS1423-F3
	15	19/26	80	PA15/SJS1926-F1	PA15/SJS1926-K	PA15/SJS1926-F3
	15	24/29	90	PA15/SJS2429-F1	PA15/SJS2429-K	PA15/SJS2429-F3
	15	29/32	90	PA15/SJS2932-F1	PA15/SJS2932-K	PA15/SJS2932-F3
	15	34/35	90	PA15/SJS3435-F1	PA15/SJS3435-K	PA15/SJS3435-F3
	15	45/40	100	PA15/SJS4540-F1	PA15/SJS4540-K	PA15/SJS4540-F3
	25	14/23	80	PA25/SJS1423-F1	PA25/SJS1423-K	PA25/SJS1423-F3
	25	19/26	90	PA25/SJS1926-F1	PA25/SJS1926-K	PA25/SJS1926-F3
	25	24/29	100	PA25/SJS2429-F1	PA25/SJS2429-K	PA25/SJS2429-F3
	25	29/32	100	PA25/SJS2932-F1	PA25/SJS2932-K	PA25/SJS2932-F3
	25	34/35	100	PA25/SJS3435-F1	PA25/SJS3435-K	PA25/SJS3435-F3
	25	45/40	110	PA25/SJS4540-F1	PA25/SJS4540-K	PA25/SJS4540-F3
	40	14/23	90	PA40/SJS1423-F1	PA40/SJS1423-K	PA40/SJS1423-F3
	40	19/26	100	PA40/SJS1926-F1	PA40/SJS1926-K	PA40/SJS1926-F3
	40	24/29	100	PA40/SJS2429-F1	PA40/SJS2429-K	PA40/SJS2429-F3
	40	29/32	100	PA40/SJS2932-F1	PA40/SJS2932-K	PA40/SJS2932-F3
	40	34/35	100	PA40/SJS3435-F1	PA40/SJS3435-K	PA40/SJS3435-F3
	40	45/40	120	PA40/SJS4540-F1	PA40/SJS4540-K	PA40/SJS4540-F3

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SJS2932-P-C3 *Coating dissipative -C3 - Example PA25/SJS2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SJS2932-P-C4 *Coating UV protection brown -C4 - Example PA25/SJS2932-P-C4*

- SJ-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit SJ-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *SJ-connections are used for many laboratory components*
- *Laboratory components with SJ-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



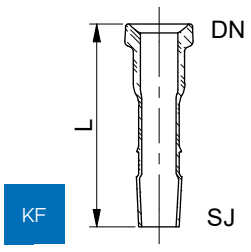


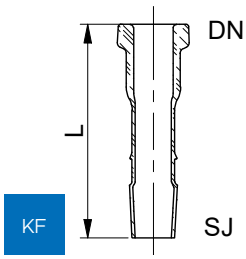
Adapter, symmetrisch, KF/PF, SJ-Kern

Adapter, symmetrical, KF/PF, SJ-cone

	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	14/23	100			PA15/SJC1423-P
	15	19/26	100			PA15/SJC1926-P
	15	24/29	110			PA15/SJC2429-P
	15	29/32	110			PA15/SJC2932-P
	15	34/35	110			PA15/SJC3435-P
	15	45/40	120			PA15/SJC4540-P
	25	14/23	110			PA25/SJC1423-P
	25	19/26	110			PA25/SJC1926-P
	25	24/29	120			PA25/SJC2429-P
	25	29/32	130			PA25/SJC2932-P
	25	34/35	130			PA25/SJC3435-P
	25	45/40	140			PA25/SJC4540-P
	40	14/23	120			PA40/SJC1423-P
	40	19/26	120			PA40/SJC1926-P
	40	24/29	130			PA40/SJC2429-P
	40	29/32	130			PA40/SJC2932-P
	40	34/35	130			PA40/SJC3435-P
	40	45/40	140			PA40/SJC4540-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SJC2932-P-C3 *Coating dissipative -C3 - Example PA25/SJC2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SJC2932-P-C4 *Coating UV protection brown -C4 - Example PA25/SJC2932-P-C4*



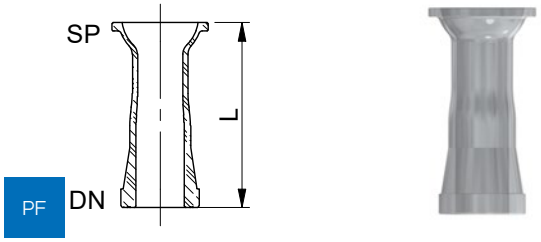


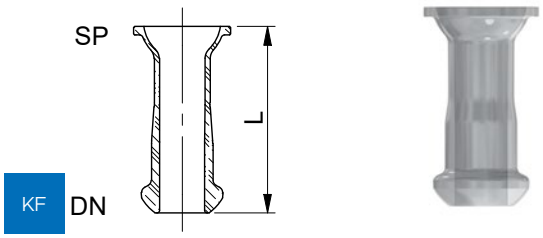
	DN	NS	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	14/23	100	PA15/SJC1423-F1	PA15/SJC1423-K	PA15/SJC1423-F3
	15	19/26	100	PA15/SJC1926-F1	PA15/SJC1926-K	PA15/SJC1926-F3
	15	24/29	110	PA15/SJC2429-F1	PA15/SJC2429-K	PA15/SJC2429-F3
	15	29/32	110	PA15/SJC2932-F1	PA15/SJC2932-K	PA15/SJC2932-F3
	15	34/35	110	PA15/SJC3435-F1	PA15/SJC3435-K	PA15/SJC3435-F3
	15	45/40	110	PA15/SJC4540-F1	PA15/SJC4540-K	PA15/SJC4540-F3
	25	14/23	120	PA25/SJC1423-F1	PA25/SJC1423-K	PA25/SJC1423-F3
	25	19/26	110	PA25/SJC1926-F1	PA25/SJC1926-K	PA25/SJC1926-F3
	25	24/29	110	PA25/SJC2429-F1	PA25/SJC2429-K	PA25/SJC2429-F3
	25	29/32	120	PA25/SJC2932-F1	PA25/SJC2932-K	PA25/SJC2932-F3
	25	34/35	120	PA25/SJC3435-F1	PA25/SJC3435-K	PA25/SJC3435-F3
	25	45/40	130	PA25/SJC4540-F1	PA25/SJC4540-K	PA25/SJC4540-F3
	40	14/23	120	PA40/SJC1423-F1	PA40/SJC1423-K	PA40/SJC1423-F3
	40	19/26	120	PA40/SJC1926-F1	PA40/SJC1926-K	PA40/SJC1926-F3
	40	24/29	130	PA40/SJC2429-F1	PA40/SJC2429-K	PA40/SJC2429-F3
	40	29/32	130	PA40/SJC2932-F1	PA40/SJC2932-K	PA40/SJC2932-F3
	40	34/35	130	PA40/SJC3435-F1	PA40/SJC3435-K	PA40/SJC3435-F3
	40	45/40	140	PA40/SJC4540-F1	PA40/SJC4540-K	PA40/SJC4540-F3

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SJC2932-P-C3 *Coating dissipative -C3 - Example PA25/SJC2932-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SJC2932-P-C4 *Coating UV protection brown -C4 - Example PA25/SJC2932-P-C4*

- SJ-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit SJ-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *SJ-connections are used for many laboratory components*
- *Laboratory components with SJ-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



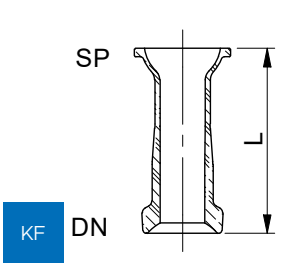


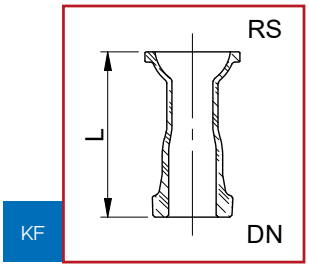
Adapter, symmetrisch, KF/PF, SP-Schale

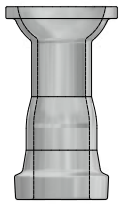
Adapter, symmetrical, KF/PF, SP-cup

	DN	SP	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	19/09	60			PA15/SPC1909-P
	15	29/13	80			PA15/SPC2913-P
	15	35/19	80			PA15/SPC3519-P
	15	41/24	80			PA15/SPC4124-P
	15	64/41	90			PA15/SPC6441-P
	15	90/70	100			PA15/SPC9070-P
	25	19/09	80			PA25/SPC1909-P
	25	29/13	80			PA25/SPC2913-P
	25	35/19	80			PA25/SPC3519-P
	25	41/24	90			PA25/SPC4124-P
	25	64/41	100			PA25/SPC6441-P
	25	90/70	100			PA25/SPC9070-P
	40	19/09	80			PA40/SPC1909-P
	40	29/13	90			PA40/SPC2913-P
	40	35/19	90			PA40/SPC3519-P
	40	41/24	100			PA40/SPC4124-P
	40	64/41	100			PA40/SPC6441-P
	40	90/70	110			PA40/SPC9070-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SPC2915-P-C3 *Coating dissipative -C3 - Example PA25/SPC2915-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SPC2915-P-C4 *Coating UV protection brown -C4 - Example PA25/SPC2915-P-C4*







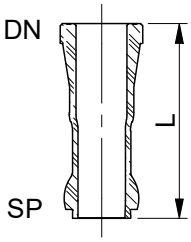
	DN	SP	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	19/09	60	PA15/SPC1909-F1	PA15/SPC1909-K	PA15/SPC1909-F3
	15	29/13	80	PA15/SPC2913-F1	PA15/SPC2913-K	PA15/SPC2913-F3
	15	35/19	80	PA15/SPC3519-F1	PA15/SPC3519-K	PA15/SPC3519-F3
	15	41/24	80	PA15/SPC4124-F1	PA15/SPC4124-K	PA15/SPC4124-F3
	15	64/41	90	PA15/SPC6441-F1	PA15/SPC6441-K	PA15/SPC6441-F3
	15	90/70	100	PA15/SPC9070-F1	PA15/SPC9070-K	PA15/SPC9070-F3
	25	19/09	80	PA25/SPC1909-F1	PA25/SPC1909-K	PA25/SPC1909-F3
	25	29/13	80	PA25/SPC2913-F1	PA25/SPC2913-K	PA25/SPC2913-F3
	25	35/19	80	PA25/SPC3519-F1	PA25/SPC3519-K	PA25/SPC3519-F3
	25	41/24	90	PA25/SPC4124-F1	PA25/SPC4124-K	PA25/SPC4124-F3
	25	64/41	100	PA25/SPC6441-F1	PA25/SPC6441-K	PA25/SPC6441-F3
	25	90/70	100	PA25/SPC9070-F1	PA25/SPC9070-K	PA25/SPC9070-F3
	40	19/09	80	PA40/SPC1909-F1	PA40/SPC1909-K	PA40/SPC1909-F3
	40	29/13	90	PA40/SPC2913-F1	PA40/SPC2913-K	PA40/SPC2913-F3
	40	35/19	90	PA40/SPC3519-F1	PA40/SPC3519-K	PA40/SPC3519-F3
	40	41/24	100	PA40/SPC4124-F1	PA40/SPC4124-K	PA40/SPC4124-F3
	40	64/41	110	PA40/SPC6441-F1	PA40/SPC6441-K	PA40/SPC6441-F3
	40	90/70	110	PA40/SPC9070-F1	PA40/SPC9070-K	PA40/SPC9070-F3

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SPC2915-P-C3 *Coating dissipative -C3 - Example PA25/SPC2915-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SPC2915-P-C4 *Coating UV protection brown -C4 - Example PA25/SPC2915-P-C4*

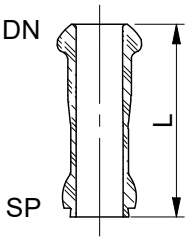
- SP-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit SP-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *SP-connections are used for many laboratory components*
- *Laboratory components with SP-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

PF



KF

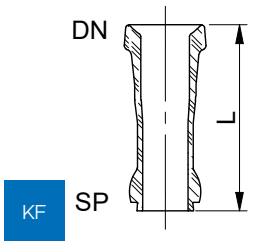


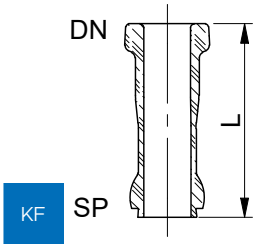
Adapter, symmetrisch, KF/PF, SP-Kugel

Adapter, symmetrical, KF/PF, SP-ball

	DN	SP	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
PF-System	15	19/09	60			PA15/SPB1909-P
	15	29/13	80			PA15/SPB2913-P
	15	35/19	80			PA15/SPB3519-P
	15	41/24	80			PA15/SPB4124-P
	15	64/41	100			PA15/SPB6441-P
	15	90/70	100			PA15/SPB9070-P
	25	19/09	80			PA25/SPB1909-P
	25	29/13	90			PA25/SPB2913-P
	25	35/19	90			PA25/SPB3519-P
	25	41/24	100			PA25/SPB4124-P
	25	64/41	110			PA25/SPB6441-P
	25	90/70	120			PA25/SPB9070-P
	40	19/09	80			PA40/SPB1909-P
	40	29/13	90			PA40/SPB2913-P
	40	35/19	100			PA40/SPB3519-P
	40	41/24	100			PA40/SPB4124-P
	40	64/41	120			PA40/SPB6441-P
	40	90/70	120			PA40/SPB9070-P

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SPB2915-P-C3 *Coating dissipative -C3 - Example PA25/SPB2915-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SPB2915-P-C4 *Coating UV protection brown -C4 - Example PA25/SPB2915-P-C4*



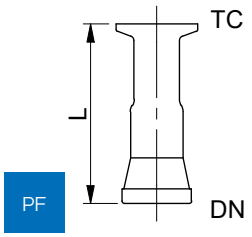


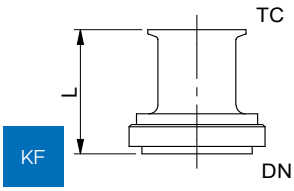
	DN	SP	L [mm]	Art.-No. Kugel *ball*	Art.-No. Pfanne *cup*	Art.-No. Plan *flat*
KF-System	15	19/09	60	PA15/SPB1909-F1	PA15/SPB1909-K	PA15/SPB1909-F3
	15	29/13	80	PA15/SPB2913-F1	PA15/SPB2913-K	PA15/SPB2913-F3
	15	35/19	80	PA15/SPB3519-F1	PA15/SPB3519-K	PA15/SPB3519-F3
	15	41/24	80	PA15/SPB4124-F1	PA15/SPB4124-K	PA15/SPB4124-F3
	15	64/41	100	PA15/SPB6441-F1	PA15/SPB6441-K	PA15/SPB6441-F3
	15	90/70	100	PA15/SPB9070-F1	PA15/SPB9070-K	PA15/SPB9070-F3
	25	19/09	80	PA25/SPB1909-F1	PA25/SPB1909-K	PA25/SPB1909-F3
	25	29/13	80	PA25/SPB2913-F1	PA25/SPB2913-K	PA25/SPB2913-F3
	25	35/19	90	PA25/SPB3519-F1	PA25/SPB3519-K	PA25/SPB3519-F3
	25	41/24	90	PA25/SPB4124-F1	PA25/SPB4124-K	PA25/SPB4124-F3
	25	64/41	110	PA25/SPB6441-F1	PA25/SPB6441-K	PA25/SPB6441-F3
	25	90/70	110	PA25/SPB9070-F1	PA25/SPB9070-K	PA25/SPB9070-F3
	40	19/09	80	PA40/SPB1909-F1	PA40/SPB1909-K	PA40/SPB1909-F3
	40	29/13	90	PA40/SPB2913-F1	PA40/SPB2913-K	PA40/SPB2913-F3
	40	35/19	100	PA40/SPB3519-F1	PA40/SPB3519-K	PA40/SPB3519-F3
	40	41/24	100	PA40/SPB4124-F1	PA40/SPB4124-K	PA40/SPB4124-F3
	40	64/41	120	PA40/SPB6441-F1	PA40/SPB6441-K	PA40/SPB6441-F3
	40	90/70	120	PA40/SPB9070-F1	PA40/SPB9070-K	PA40/SPB9070-F3

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA25/SPB2915-P-C3 *Coating dissipative -C3 - Example PA25/SPB2915-P-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA25/SPB2915-P-C4 *Coating UV protection brown -C4 - Example PA25/SPB2915-P-C4*

- SP-Anschlüsse werden für viele Laborkomponenten verwendet
- Laborkomponenten mit SP-Anschlüssen finden Sie in den folgenden Kapiteln
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *SP-connections are used for many laboratory components*
- *Laboratory components with SP-connections can be found in the following chapters*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *product contacting: borosilicate glass 3.3*





Adapter, symmetrisch, KF/PF, TriClamp (DIN 32676 und BS 4825)

Adapter, symmetrical, KF/PF, Tri Clamp

	DN	TC DIN 32676	TC BS 4825	L [mm]	n x d [mm]	Art.-No. DN	Art.-No. ZOLL/INCH
KF-System	15	TC15		75	Ø50 / 3 x Ø7	PA15/TC15-K	
	15	TC25		75	Ø50 / 4 x Ø9	PA15/TC25-K	
	15		1/2	75	Ø50 / 3 x Ø7		PA15/TC012-K
	15		1	75	Ø50/ 4 x Ø9		PA15/TC100-K
	25	TC25		75	Ø85 / 4 x Ø9	PA25/TC25-K	
	25	TC25		75	Ø85 / 4 x Ø9	PA25/TC40-K	
	25		1/2	75	Ø85 / 4 x Ø9		PA25/TC012-K
	25		1	75	Ø85 / 4 x Ø9		PA25/TC100-K
	40	TC40		75	Ø110 / 4 x Ø9	PA40/TC40-K	
	40	TC50		75	Ø110 / 4 x Ø9	PA40/TC50-K	
	40		1	75	Ø110 / 4 x Ø9		PA40/TC100-K
	40		1 1/2	75	Ø110 / 4 x Ø9		PA40/TC112-K
	50	TC40		75	Ø125 / 4 x Ø9	PA50/TC40-K	
	50	TC50		75	Ø125 / 4 x Ø9	PA50/TC50-K	
	50		1 1/2	75	Ø125 / 4 x Ø9		PA50/TC112-K
	50		2	75	Ø125 / 4 x Ø9		PA50/TC200-K

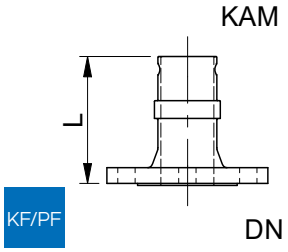
Optionen *Options*	Ableitfähig mit Erdungslasche -M2 - Beispiel PA25/TC25-K-M2 *Dissipative with earthing lug -M2 - Example PA25/TC25-K-M2*

	DN	TC DIN 32676	TC BS 4825	L [mm]	n x d [mm]	Art.-No. DN	Art.-No. ZOLL/INCH
PF-System	15	TC15		75	Ø50 / 3 x Ø7	PA15/TC15-P	
	15	TC25		75	Ø50 / 3 x Ø9	PA15/TC25-P	
	15		1/2	75	Ø50 / 3 x Ø7		PA15/TC012-P
	15		1	75	Ø50 / 3 x Ø9		PA15/TC100-P
	25	TC25		75	Ø70 / 3 x Ø9	PA25/TC25-P	
	25	TC25		75	Ø70 / 3 x Ø9	PA25/TC40-P	
	25		1/2	75	Ø70 / 3 x Ø9		PA25/TC012-P
	25		1	75	Ø70 / 3 x Ø9		PA25/TC100-P
	40	TC40		75	Ø86 / 3 x Ø9	PA40/TC40-P	
	40	TC50		75	Ø86 / 3 x Ø9	PA40/TC50-P	
	40		1	75	Ø86 / 3 x Ø9		PA40/TC100-P
	40		1 1/2	75	Ø86 / 3 x Ø9		PA40/TC112-P
	50	TC40		75	Ø98 / 3 x Ø9	PA50/TC40-P	
	50	TC50		75	Ø98 / 3 x Ø9	PA50/TC50-P	
	50		1 1/2	75	Ø98 / 3 x Ø9		PA50/TC112-P
	50		2	75	Ø98 / 3 x Ø9		PA50/TC200-P

Optionen *Options*	
	Ableitfähig mit Erdungslasche -M2 - Beispiel PA25/TC25-K-M2 *Dissipative with earthing lug -M2 - Example PA25/TC25-K-M2*

- TriClamp-Anschlüsse werden in vielen Produktionsanlagen, bei denen es auf höchste Reinheit ankommt, verwendet
- Zubehörteile TriClamp sind in Kapitel „Verbindungen" zu finden
- TriClamp nach ISO 2852 auf Anfrage
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: PTFE

- *TriClamp-connections used in many production plants where highest purity is required*
- *TriClamp-accessories can be found in chapter „Connections"*
- *TriClamp according to ISO 2852 on request*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: PTFE*



Adapter, symmetrisch, KF/PF, Kamlok

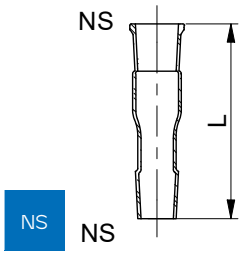
Adapter, symmetrical, KF/PF, Kamlok

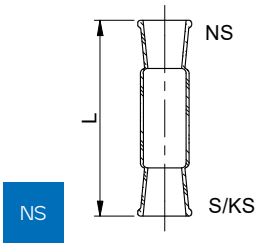
	DN	KA	L [mm]	n x d [mm]	Art.-No. Design Male	Art.-No Design Female
KF/PF-System	25	1"	75	Ø85,4xØ9	PA25/KAM25	PA25/KAF25
	40	1½"	75	Ø110,4xØ9	PA40/KAM40	PA40/KAF40
	50	2"	75	Ø125,4xØ9	PA50/KAM50	PA50/KAF50

Optionen *Options*	Ableitfähig mit Erdungslasche -M2 - Beispiel PA25/KAM25-M2 *Dissipative with earthing lug -M2 - Example PA25/KAM25-M2*

- Kamlok-Anschlüsse werden verwendet, wenn Schläuche oft und schnell gewechselt werden müssen
- Als Adapteranschluss (Male) M und als Muffe (Female) F erhältlich
- Flanschanschluss nach EN 1092-1, PN10
- KF: Es wird eine Standard-Dichtung CGR und eine Anschlussverbindung CAPG benötigt
- PF: es wird eine Standarddichtung CGR und eine Übergangsverbindung CAPE benötigt
- Zulässige Betriebstemperatur: -50...+140°C
- Zulässiger Betriebsdruck: -1...+6 barg DN015-025, -1...+4 barg DN040-050
- Material produktberührend: ECTFE

- *Kamlock connections are used when hoses have to be changed often and quickly*
- *Available as adapter connection (male) M and as socket (female) F*
- *Flange connection to EN 1092-1, PN10*
- *KF: a standard gasket CGR and a transition joint CAPG are required.*
- *PF: a standard gasket CGR and a transition joint CAPE are required*
- *Permissible operating temperature: -50...+140°C*
- *Permissible operating pressure: -1...+6 barg DN015-025, -1...+4 barg DN040-050*
- *Material product contacting: ECTFE*

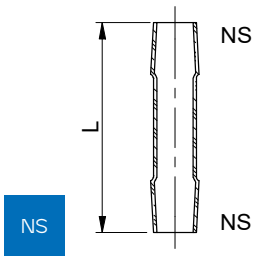




Adapter, symmetrisch, NS, NS

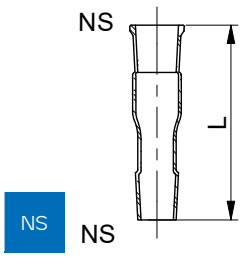
Adapter, symmetrical, NS, NS

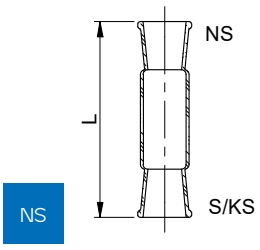
	NS	NS	L	Art.-No.	Art.-No.	Art.-No.	Art.-No.
			[mm]	Hülse-Hülse *sleeve-sleeve*	Hülse-Kern *sleeve-cone*	Kern-Hülse *cone-sleeve*	Kern-Kern *cone-cone*
NS-System	10/30	10/30	100	PANSS1030/ NSS1030			
			110		PANSS1030/ NSC1030	PANSC1030/ NSS1030	
			100				PANSC1030/ NSC1030
	10/30	14/35	90	PANSS1030/ NSS1435			
			90		PANSS1030/ NSC1435	PANSC1030/ NSS1435	
			120				PANSC1030/ NSC1435
	10/30	24/40	120	PANSS1030/ NSS2440			
			120		PANSS1030/ NSC2440	PANSC1030/ NSS2440	
			130				PANSC1030/ NSC2440
	14/23	14/23	80	PANSS1423/ NSS1423			
			100		PANSS1423/ NSC1423	PANSC1423/ NSS1423	
			120				PANSC1423/ NSC1423
	14/23	19/26	90	PANSS1423/ NSS1926			
			110		PANSS1423/ NSC1926	PANSC1423/ NSS1926	
			120				PANSC1423/ NSC1926
	14/23	29/32	100	PANSS1423/ NSS2932			
			120		PANSS1423/ NSC2932	PANSC1423/ NSS2932	
			120				PANSC1423/ NSC2932
	14/35	14/35	80	PANSS1435/ NSS1435			
			100		PANSS1435/ NSC1435	PANSC1435/ NSS1435	
			120				PANSC1435/ NSC1435



	NS	NS	L	Art.-No.	Art.-No.	Art.-No.	Art.-No.
			[mm]	Hülse-Hülse *sleeve-sleeve*	Hülse-Kern *sleeve-cone*	Kern-Hülse *cone-sleeve*	Kern-Kern *cone-cone*
	14/35	24/40	110	PANSS1435/ NSS2440			
			130		PANSS1435/ NSC2440	PANSC1435/ NSS2440	
			140				PANSC1435/ NSC2440
NS-System	14/35	29/42	110	PANSS1435/ NSS2942			
			130		PANSS1435/ NSC2942	PANSC1435/ NSS2942	
			130				PANSC1435/ NSC2942
	19/26	19/26	100	PANSS1926/ NSS1926			
			110		PANSS1926/ NSC1926	PANSC1926/ NSS1926	
			120				PANSC1926/ NSC1926
	19/26	29/32	110	PANSS1926/ NSS2932			
			120		PANSS1926/ NSC2932	PANSC1926/ NSS2932	
			120				PANSC1926/ NSC2932
	19/26	45/40	120	PANSS1926/ NSS4540			
			130		PANSS1926/ NSC4540	PANSC1926/ NSS4540	
			130				PANSC1926/ NSC4540
	24/40	24/40	140	PANSS2440/ NSS2440			
			150		PANSS2440/ NSC2440	PANSC2440/ NSS2440	
			150				PANSC2440/ NSC2440

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PANSS1926/NSS2932-C3 Coating dissipative -C3 - Example PANSS1926/NSS2932-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PANSS1926/NSS2932-C4 Coating UV protection brown -C4 - Example PANSS1926/NSS2932-C4

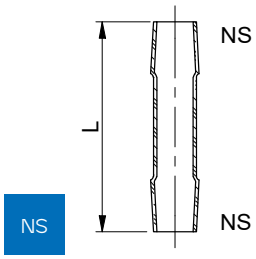




Adapter, symmetrisch, NS, NS

Adapter, symmetrical, NS, NS

	NS	NS	L	Art.-No.	Art.-No.	Art.-No.	Art.-No.
			[mm]	Hülse-Hülse *sleeve-sleeve*	Hülse-Kern *sleeve-cone*	Kern-Hülse *cone-sleeve*	Kern-Kern *cone-cone*
NS-System	24/40	29/42	140	PANSS2440/ NSS2942			
			150		PANSS2440/ NSC2942	PANSC2440/ NSS2942	
			150				PANSC2440/ NSC2942
	24/40	45/50	140	PANSS2440/ NSS4550			
			150		PANSS2440/ NSC4550	PANSC2440/ NSS4550	
			150				PANSC2440/ NSC4550
	29/32	29/32	130	PANSS2932/ NSS2932			
			130		PANSS2932/ NSC2932	PANSC2932/ NSS2932	
			130				PANSC2932/ NSC2932
	29/32	45/40	130	PANSS2932/ NSS4540			
			130		PANSS2932/ NSC4540	PANSC2932/ NSS4540	
			130				PANSC2932/ NSC4540
	29/42	29/42	140	PANSS2942/ NSS2942			
			140		PANSS2942/ NSC2942	PANSC2942/ NSS2942	
			140				PANSC2942/ NSC2942
	29/42	45/40	140	PANSS2942/ NSS4540			
			140		PANSS2942/ NSC4540	PANSC2942/ NSS4540	
			140				PANSC2942/ NSC4540
	45/40	45/40	140	PANSS4540/ NSS4540			
			140		PANSS4540/ NSC4540	PANSC4540/ NSS4540	
			140				PANSC4540/ NSC4540

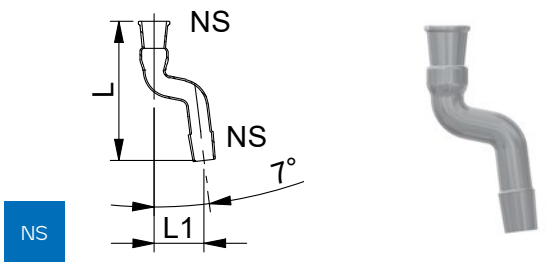


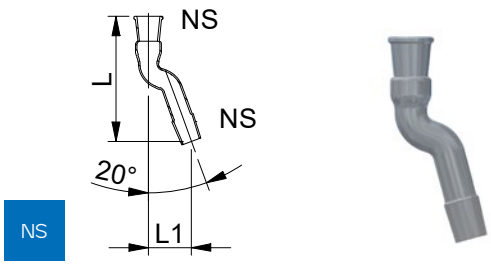
	NS	NS	L [mm]	Art.-No. Hülse-Hülse *sleeve-sleeve*	Art.-No. Hülse-Kern *sleeve-cone*	Art.-No. Kern-Hülse *cone-sleeve*	Art.-No. Kern-Kern *cone-cone*
NS-System	45/50	45/50	150	PANSS4550/ NSS4550			
			150		PANSS4550/ NSC4550	PANSC4550/ NSS4550	
			150				PANSC4550/ NSC4550

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PANSS1926/NSS2932-C3 Coating dissipative -C3 - Example PANSS1926/NSS2932-C3
	Beschichtung UV-Schutz braun -C4 - Beispiel PANSS1926/NSS2932-C4 Coating UV protection brown -C4 - Example PANSS1926/NSS2932-C4

- Zur Verbindung unterschiedlicher NS-Größen und Hülse/Kern
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Kompatibel zu SJ-Schliffen
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS sizes and sleeve/cone*
- *High wall thicknesses for long life and pressure stability*
- *Compatible with SJ joints*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



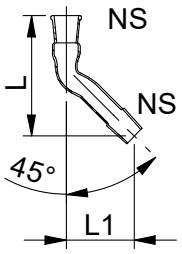


Schwanenhals, NS, NS

Swan neck, NS, NS

	NS	NS	L	L1	Art.-No.	Art.-No.	Art.-No.
			[mm]	[mm]	Kern-Hülse 7°/ *cone-sleeve 7°*	Kern-Hülse 20°/ *cone-sleeve 20°*	Kern-Hülse 45°/ *cone-sleeve 45°*
NS-System	24/29	24/29	190	100	PSN07/NSC2429/NSS2429		
			180	80		PSN20/NSC2429/NSS2429	
			150	80			PSN45/NSC2429/NSS2429
	24/29	29/32	190	100	PSN07/NSC2429/NSS2932		
			180	80		PSN20/NSC2429/NSS2932	
			150	80			PSN45/NSC2429/NSS2932
	29/32	29/32	190	100	PSN07/NSC2932/NSS2932		
			180	80		PSN20/NSC2932/NSS2932	
			150	80			PSN45/NSC2932/NSS2932
	29/42	29/42	200	100	PSN07/NSC2942/NSS2942		
			190	80		PSN20/NSC2942/NSS2942	
			160	80			PSN45/NSC2942/NSS2942
	34/45	34/45	200	80	PSN07/NSC3435/NSS3435		
			200	70		PSN20/NSC3435/NSS3435	
			160	100			PSN45/NSC3435/NSS3435
	34/45	45/40	200	80	PSN07/NSC3435/NSS4540		
			200	80		PSN20/NSC3435/NSS4540	
			160	110			PSN45/NSC3435/NSS4540
	45/40	45/40	220	80	PSN07/NSC4540/NSS4540		
			220	80		PSN20/NSC4540/NSS4540	
			190	110			PSN45/NSC4540/NSS4540
	45/50	45/50	230	80	PSN07/NSC4550/NSS4550		
			230	80		PSN20/NSC4550/NSS4550	
			200	110			PSN45/NSC4550/NSS4550

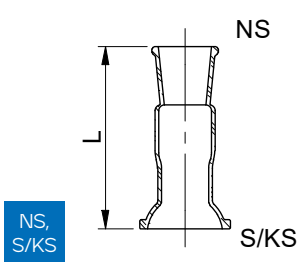
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PSN07/NSC2932/NSS2932-C3 *Coating dissipative -C3 - Example PSN07/NSC2932/NSS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PSN07/NSC2932/NSS2932-C4 *Coating UV protection brown -C4 - Example PSN07/NSC2932/NSS2932-C4*

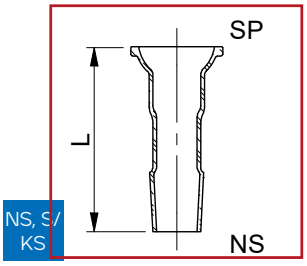


NS

- Zur Verbindung von weiteren Bauteilen mit Gefäßen oder Hauben mit schrägem Stutzen
- Vergrößerung des horizontalen Abstand, um größere Bauteile montieren zu können
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting additional components to vessels or hoods with angled nozzles*
- *Increase of the horizontal distance to be able to mount larger components*
- *High wall thickness for long service life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0.5 barg*
- *Material in contact with product: borosilicate glass 3.3*

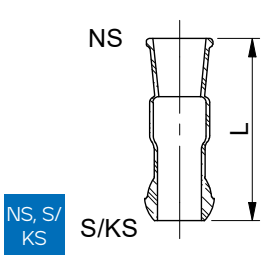


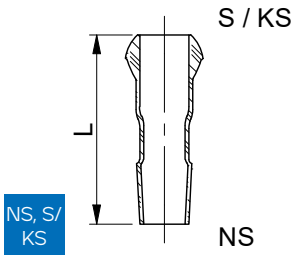


Adapter, symmetrisch, NS, S/KS

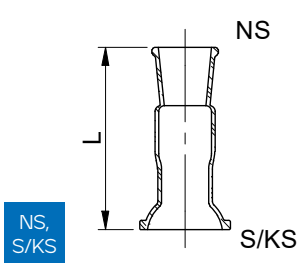
Adapter, symmetrical, NS, S/KS

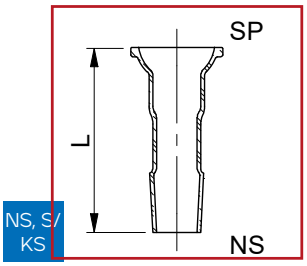
	S/KS	Norm	NS	L [mm]	Art.-No. Schale-Hülse *cup-sleeve*	Art.-No. Schale-Kern *cup-cone*	Art.-No. Kugel-Hülse *ball-sleeve*	Art.-No. Kugel-Kern *ball-cone*
S/KS/NS-System	19/09	Zoll	14/23	80	PASC1909/ NSS1423		PASB1909/ NSS1423	
				90		PASC1909/ NSC1423		
				100				PASB1909/ NSC1423
	19/09	Zoll	14/35	80	PASC1909/ NSS1435		PASB1909/ NSS1435	
				90		PASC1909/ NSC1435		
				100				PASB1909/ NSC1435
	18/09	mm	14/23	80	PAKSC1809/ NSS1423		PAKSB1809/ NSS1423	
				90		PAKSC1809/ NSC1423		
				100				PAKSB1809/ NSC1423
	18/09	mm	14/35	80	PAKSC1809/ NSS1435		PAKSB1809/ NSS1435	
				90		PAKSC1809/ NSC1435		
				100				PAKSB1809/ NSC1435
	29/15	Zoll	14/23	80	PASC2915/ NSS1423			
				100		PASC2915/ NSC1423		
				90			PASB2915/ NSS1423	
				110				PASB2915/ NSC1423
	29/15	Zoll	14/35	80	PASC2915/ NSS1435			
				100		PASC2915/ NSC1435		
				90			PASB2915/ NSS1435	
				110				PASB2915/ NSC1435





	S/KS	Norm	NS	L [mm]	Art.-No. Schale-Hülse *cup-sleeve*	Art.-No. Schale-Kern *cup-cone*	Art.-No. Kugel-Hülse *ball-sleeve*	Art.-No. Kugel-Kern *ball-cone*
S/KS/NS-System	28/15	mm	14/23	80	PAKSC2815/ NSS1423		PAKSB2815/ NSS1423	
				90		PAKSC2815/ NSC1423		
				100				PAKSB2815/ NSC1423
	28/15	mm	14/35	80	PAKSC2815/ NSS1435		PAKSB2815/ NSS1435	
				90		PAKSC2815/ NSC1435		
				100				PAKSB2815/ NSC1435
	35/24	Zoll	29/32	100	PASC3524/ NSS2932	PASC3524/ NSC2932		
				110			PASB3524/ NSS2932	PASB3524/ NSC2932
	35/24	Zoll	29/42	110	PASC3524/ NSS2942	PASC3524/ NSC2942		
				120			PASB3524/ NSS2942	PASB3524/ NSC2942
	35/25	mm	29/32	100	PAKSC3525/ NSS2932	PAKSC3525/ NSC2932	PAKSB3525/ NSS2932	PAKSB3525/ NSC2932
	35/25	mm	29/42	110	PAKSC3525/ NSS2942	PAKSC3525/ NSC2942	PAKSB3525/ NSS2942	
				120				PAKSB3525/ NSC2942
	38/24	Zoll	29/32	100	PASC3824/ NSS2932	PASC3824/ NSC2932		
				120			PASB3824/ NSS2932	PASB3824/ NSC2932
	38/24	Zoll	29/42	110	PASC3824/ NSS2942			
				120		PASC3824/ NSC2942		
				130			PASB3824/ NSS2942	PASB3824/ NSC2942
	51/30	Zoll	45/40	120	PASC5130/ NSS4540	PASC5130/ NSC4540		
				140			PASB5130/ NSS4540	PASB5130/ NSC4540





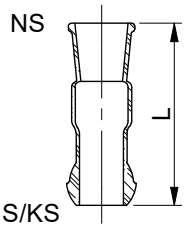
Adapter, symmetrisch, NS, S/KS

Adapter, symmetrical, NS, S/KS

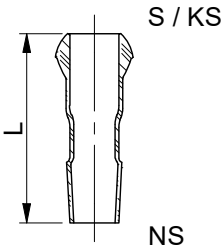
	S/KS	Norm	NS	L [mm]	Art.-No. Schale-Hülse *cup-sleeve*	Art.-No. Schale-Kern *cup-cone*	Art.-No. Kugel-Hülse *ball-sleeve*	Art.-No. Kugel-Kern *ball-cone*
S/KS/NS-System	51/30	Zoll	45/50	130	PASC5130/ NSS4550	PASC5130/ NSC4550		
				150			PASB5130/ NSS4550	PASB5130/ NSC4550
	50/30	mm	45/40	120	PAKSC5030/ NSS4540			
				110		PAKSC5030/ NSC4540		
				140			PAKSB5030/ NSS4540	
				130				PAKSB5030/ NSC4540
	50/30	mm	45/50	130	PAKSC5030/ NSS4550			
				120		PAKSC5030/ NSC4550		
				150			PAKSB5030/ NSS4550	
				140				PAKSB5030/ NSC4550

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASC3524/NSS2932-C3 *Coating dissipative -C3 - Example PASC3524/NSS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASC3524/NSS2932-C4 *Coating UV protection brown -C4 - Example PASC3524/NSS2932-C4*

NS, S/KS

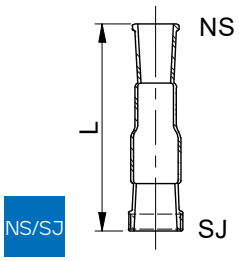


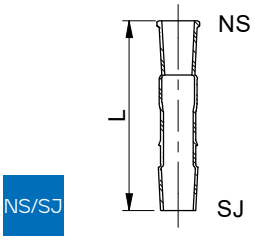
NS, S/KS



- Zur Verbindung unterschiedlicher NS-Anschlüsse mit S/KS-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with S/KS-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

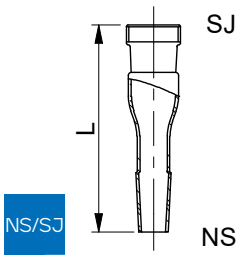


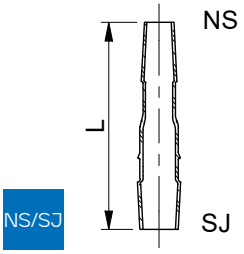


Adapter, symmetrisch, NS, SJ

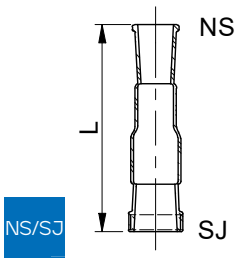
Adapter, symmetrical, NS, SJ

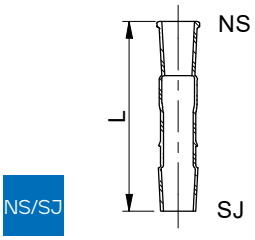
	NS	SJ	L [mm]	Art.-No. Hülse-Hülse *sleeve-sleeve*	Art.-No. Hülse-Kern *sleeve-cone*	Art.-No. Kern-Hülse *cone-sleeve*	Art.-No. Kern-Kern *cone-cone*
NS/SJ-System	10/30	14/23	100	PANSS1030/ SJS1423			
			120		PANSS1030/ SJC1423	PANSC1030/ SJS1423	
			130				PANSC1030/ SJC1423
	10/30	19/26	100	PANSS1030/ SJS1926			
			120		PANSS1030/ SJC1926	PANSC1030/ SJS1926	
			130				PANSC1030/ SJC1926
	10/30	24/29	110	PANSS1030/ SJS2429			
			130		PANSS1030/ SJC2429	PANSC1030/ SJS2429	
			140				PANSC1030/ SJC2429
	10/30	29/32	110	PANSS1030/ SJS2932			
			130		PANSS1030/ SJC2932	PANSC1030/ SJS2932	
			140				PANSC1030/ SJC2932
	14/23	14/23	80	PANSS1423/ SJS1423			
			110		PANSS1423/ SJC1423	PANSC1423/ SJS1423	
			120				PANSC1423/ SJC1423
	14/23	19/26	100	PANSS1423/ SJS1926			
			110		PANSS1423/ SJC1926	PANSC1423/ SJS1926	
			120				PANSC1423/ SJC1926
	14/23	24/29	100	PANSS1423/ SJS2429			
			120		PANSS1423/ SJC2429	PANSC1423/ SJS2429	
			130				PANSC1423/ SJC2429





	NS	SJ	L [mm]	Art.-No. Hülse-Hülse *sleeve-sleeve*	Art.-No. Hülse-Kern *sleeve-cone*	Art.-No. Kern-Hülse *cone-sleeve*	Art.-No. Kern-Kern *cone-cone*
NS/SJ-System	14/23	29/32	100	PANSS1423/ SJS2932			
			140		PANSS1423/ SJC2932	PANSC1423/ SJS2932	
			140				PANSC1423/ SJC2932
	24/40	14/23	110	PANSS2440/ SJS1423			
			140		PANSS2440/ SJC1423	PANSC2440/ SJS1423	
			140				PANSC2440/ SJC1423
	24/40	19/26	120	PANSS2440/ SJS1926			
			140		PANSS2440/ SJC1926	PANSC2440/ SJS1926	
			140				PANSC2440/ SJC1926
	24/40	24/29	130	PANSS2440/ SJS2429			
			150		PANSS2440/ SJC2429	PANSC2440/ SJS2429	
			150				PANSC2440/ SJC2429
	24/40	29/32	130	PANSS2440/ SJS2932			
			150		PANSS2440/ SJC2932	PANSC2440/ SJS2932	
			150				PANSC2440/ SJC2932
	24/40	34/35	130	PANSS2440/ SJS3435			
			150		PANSS2440/ SJC3435	PANSC2440/ SJS3435	
			160				PANSC2440/ SJC3435
	24/40	45/40	140	PANSS2440/ SJS4540			
			160		PANSS2440/ SJC4540	PANSC2440/ SJS4540	
			170				PANSC2440/ SJC4540



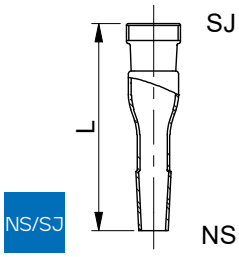


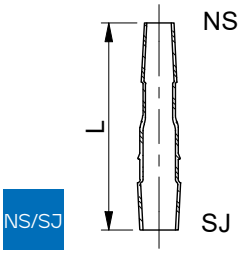
Adapter, symmetrisch, NS, SJ

Adapter, symmetrical, NS, SJ

	NS	SJ	L [mm]	Art.-No. Hülse-Hülse *sleeve-sleeve*	Art.-No. Hülse-Kern *sleeve-cone*	Art.-No. Kern-Hülse *cone-sleeve*	Art.-No. Kern-Kern *cone-cone*
NS/SJ-System	45/50	14/23	110	PANSS4550/ SJS1423			
			150		PANSS4550/ SJC1423	PANSC4550/ SJS1423	
			150				PANSC4550/ SJC1423
	45/50	19/26	130	PANSS4550/ SJS1926			
			150		PANSS4550/ SJC1926	PANSC4550/ SJS1926	
			150				PANSC4550/ SJC1926
	45/50	24/29	140	PANSS4550/ SJS2429			
			150		PANSS4550/ SJC2429	PANSC4550/ SJS2429	
			160				PANSC4550/ SJC2429
	45/50	29/32	140	PANSS4550/ SJS2932			
			160		PANSS4550/ SJC2932	PANSC4550/ SJS2932	
			160				PANSC4550/ SJC2932
	45/50	34/35	140	PANSS4550/ SJS3435			
			150		PANSS4550/ SJC3435	PANSC4550/ SJS3435	
			160				PANSC4550/ SJC3435
	45/50	45/40	160	PANSS4550/ SJS4540			
			170		PANSS4550/ SJC4540	PANSC4550/ SJS4540	
			170				PANSC4550/ SJC4540

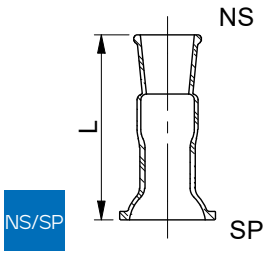
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PANSS2440/SJS2932-C3 *Coating dissipative -C3 - Example PANSS2440/SJS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PANSS2440/SJS2932-C4 *Coating UV protection brown -C4 - Example PANSS2440/SJS2932-C4*

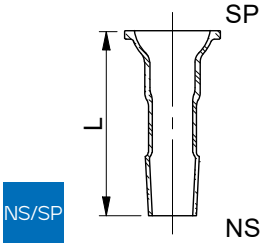




- Zur Verbindung unterschiedlicher NS-Anschlüsse mit SJ-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with JS-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

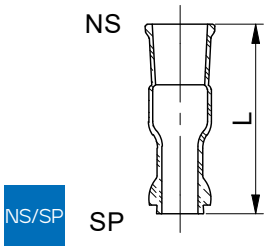


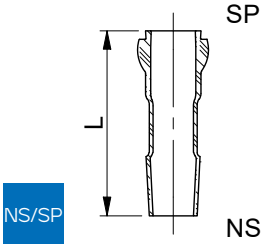


Adapter, symmetrisch, NS, SP

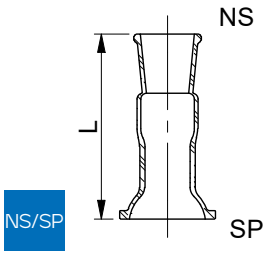
Adapter, symmetrical, NS, SP

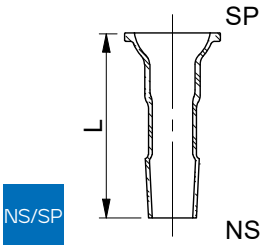
	SP	NS	L [mm]	Art.-No. Schale-Hülse *cup-sleeve*	Art.-No. Schale-Kern *cup-cone*	Art.-No. Kugel-Hülse *ball-sleeve*	Art.-No. Kugel-Kern *ball-cone*
NS/SP-System	19/09	14/23	80	PASPC1909/ NSS1423		PASPB1909/ NSS1423	
			90		PASPC1909/ NSC1423		PASPB1909/ NSC1423
	19/09	14/35	80	PASPC1909/ NSS1435		PASPB1909/ NSS1435	
			90		PASPC1909/ NSC1435		PASPB1909/ NSC1435
	19/09	19/26	80	PASPC1909/ NSS1926		PASPB1909/ NSS1926	
			90		PASPC1909/ NSC1926		PASPB1909/ NSC1926
	19/09	24/29	90	PASPC1909/ NSS2429		PASPB1909/ NSS2429	
			100		PASPC1909/ NSC2429		PASPB1909/ NSC2429
	19/09	24/40	100	PASPC1909/ NSS2440		PASPB1909/ NSS2440	
			110		PASPC1909/ NSC2440		PASPB1909/ NSC2440
	29/13	14/23	80	PASPC2913/ NSS1423		PASPB2913/ NSS1423	
			100		PASPC2913/ NSC1423		PASPB2913/ NSC1423
	29/13	14/35	80	PASPC2913/ NSS1435		PASPB2913/ NSS1435	
			100		PASPC2913/ NSC1435		PASPB2913/ NSC1435
	29/13	19/26	90	PASPC2913/ NSS1926		PASPB2913/ NSS1926	
			100		PASPC2913/ NSC1926		PASPB2913/ NSC1926
	29/13	24/29	90	PASPC2913/ NSS2429			
			100		PASPC2913/ NSC2429	PASPB2913/ NSS2429	
			110				PASPB2913/ NSC2429
	29/13	24/40	110	PASPC2913/ NSS2440	PASPC2913/ NSC2440	PASPB2913/ NSS2440	
			120				PASPB2913/ NSC2440





	SP	NS	L [mm]	Art.-No. Schale-Hülse *cup-sleeve*	Art.-No. Schale-Kern *cup-cone*	Art.-No. Kugel-Hülse *ball-sleeve*	Art.-No. Kugel-Kern *ball-cone*
NS/SP-System	35/19	19/26	90	PASPC3519/ NSS1926			
			100		PASPC3519/ NSC1926	PASPB3519/ NSS1926	
			110				PASPB3519/ NSC1926
	35/19	24/29	100	PASPC3519/ NSS2429			
			110		PASPC3519/ NSC2429	PASPB3519/ NSS2429	PASPB3519/ NSC2429
	35/19	24/40	110	PASPC3519/ NSS2440			
			120		PASPC3519/ NSC2440	PASPB3519/ NSS2440	PASPB3519/ NSC2440
	35/19	29/32	100	PASPC3519/ NSS2932	PASPC3519/ NSC2932		
			110			PASPB3519/ NSS2932	PASPB3519/ NSC2932
	35/19	29/42	110	PASPC3519/ NSS2942			
			120		PASPC3519/ NSC2942	PASPB3519/ NSS2942	PASPB3519/ NSC2942
	41/24	24/29	110	PASPC4124/ NSS2429	PASPC4124/ NSC2429	PASPB4124/ NSS2429	
			120				PASPB4124/ NSC2429
	41/24	24/40	120	PASPC4124/ NSS2440	PASPC4124/ NSC2440	PASPB4124/ NSS2440	
			130				PASPB4124/ NSC2440
	41/24	29/32	110	PASPC4124/ NSS2932	PASPC4124/ NSC2932	PASPB4124/ NSS2932	PASPB4124/ NSC2932
	41/24	29/42	120	PASPC4124/ NSS2942	PASPC4124/ NSC2942	PASPB4124/ NSS2942	PASPB4124/ NSC2942
	41/24	45/40	120	PASPC4124/ NSS4540	PASPC4124/ NSC4540	PASPB4124/ NSS4540	PASPB4124/ NSC4540
	41/24	45/50	120	PASPC4124/ NSS4550			
			130		PASPC4124/ NSC4550	PASPB4124/ NSS4550	PASPB4124/ NSC4550





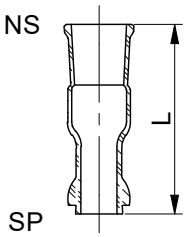
Adapter, symmetrisch, NS, SP

Adapter, symmetrical, NS, SP

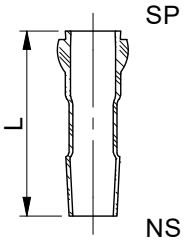
	SP	NS	L [mm]	Art.-No. Schale-Hülse *cup-sleeve*	Art.-No. Schale-Kern *cup-cone*	Art.-No. Kugel-Hülse *ball-sleeve*	Art.-No. Kugel-Kern *ball-cone*
NS/SP-System	64/41	24/29	120	PASPC6441/ NSS2429			
			130		PASPC6441/ NSC2429	PASPB6441/ NSS2429	PASPB6441/ NSC2429
	64/41	24/40	130	PASPC6441/ NSS2440			
			140		PASPC6441/ NSC2440	PASPB6441/ NSS2440	PASPB6441/ NSC2440
	64/41	29/32	120	PASPC6441/ NSS2932	PASPC6441/ NSC2932		
			130			PASPB6441/ NSS2932	PASPB6441/ NSC2932
	64/41	29/42	130	PASPC6441/ NSS2942	PASPC6441/ NSC2942		
			140			PASPB6441/ NSS2942	PASPB6441/ NSC2942
	64/41	45/40	130	PASPC6441/ NSS4540	PASPC6441/ NSC4540		
			140			PASPB6441/ NSS4540	PASPB6441/ NSC4540
	64/41	45/50	140	PASPC6441/ NSS4550	PASPC6441/ NSC4550		
			150			PASPB6441/ NSS4550	PASPB6441/ NSC4550

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASPC2913/NSS2429-C3 *Coating dissipative -C3 - Example PASPC2913/NSS2429-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASPC2913/NSS2429-C4 *Coating UV protection brown -C4 - Example PASPC2913/NSS2429-C4*

NS/SP

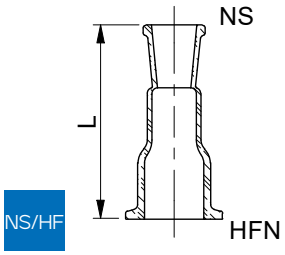


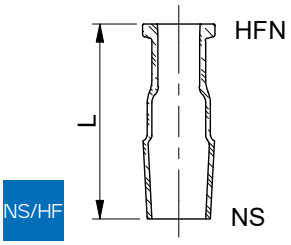
NS/SP



- Zur Verbindung unterschiedlicher NS-Anschlüsse mit SP-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with SP-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, symmetrisch, NS, HF

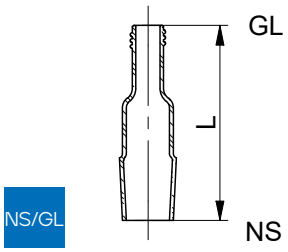
Adapter, symmetrical, NS, HF

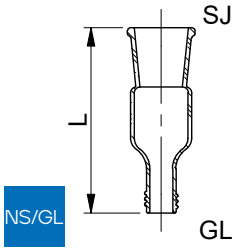
HF	NS	L [mm]	Art.-No. Flansch-Hülse *flange-sleeve*	Art.-No. Flansch-Kern *flange-cone*
HF16	14/35	90	PAHFN16/NSS1435	PAHFN16/NSC1435
HF16	14/23	90	PAHFN16/NSS1423	PAHFN16/NSC1423
HF16	19/26	100	PAHFN16/NSS1926	PAHFN16/NSC1926
HF16	24/29	100	PAHFN16/NSS2429	PAHFN16/NSC2429
HF16	24/40	110	PAHFN16/NSS2440	PAHFN16/NSC2440
HF16	29/32	90	PAHFN16/NSS2932	PAHFN16/NSC2932
HF16	29/42	100	PAHFN16/NSS2942	PAHFN16/NSC2942
HF25	14/35	90	PAHFN25/NSS1435	PAHFN25/NSC1435
HF25	14/23	90	PAHFN25/NSS1423	PAHFN25/NSC1423
HF25	19/26	100	PAHFN25/NSS1926	PAHFN25/NSC1926
HF25	24/29	100	PAHFN25/NSS2429	PAHFN25/NSC2429
HF25	24/40	110	PAHFN25/NSS2440	PAHFN25/NSC2440
HF25	29/32	90	PAHFN25/NSS2932	PAHFN25/NSC2932
HF25	29/42	100	PAHFN25/NSS2942	PAHFN25/NSC2942
HF40	24/29	110	PAHFN40/NSS2429	PAHFN40/NSC2429
HF40	24/40	120	PAHFN40/NSS2440	PAHFN40/NSC2440
HF40	29/32	100	PAHFN40/NSS2932	PAHFN40/NSC2932
HF40	29/42	110	PAHFN40/NSS2942	PAHFN40/NSC2942
HF40	45/40	110	PAHFN40/NSS4540	PAHFN40/NSC4540
HF40	45/50	120	PAHFN40/NSS4550	PAHFN40/NSC4550
HF50	24/29	110	PAHFN50/NSS2429	PAHFN50/NSC2429
HF50	24/40	120	PAHFN50/NSS2440	PAHFN50/NSC2440
HF50	29/32	100	PAHFN50/NSS2932	PAHFN50/NSC2932
HF50	29/42	110	PAHFN50/NSS2942	PAHFN50/NSC2942
HF50	45/40	110	PAHFN50/NSS4540	PAHFN50/NSC4540
HF50	45/50	120	PAHFN50/NSS4550	PAHFN50/NSC4550

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PAHFN25/NSS2932-C3 *Coating dissipative -C3 - Example PAHFN25/NSS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAHFN25/NSS2932-C4 *Coating UV protection brown -C4 - Example PAHFN25/NSS2932-C4*

- Zur Verbindung unterschiedlicher NS-Anschlüsse mit HF-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with HF-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, symmetrisch, NS, GL

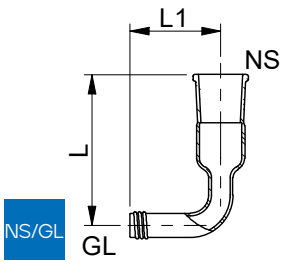
Adapter, symmetrical, NS, GL

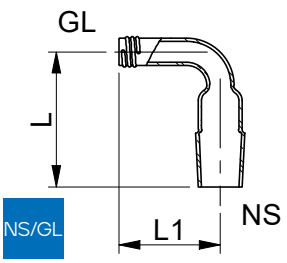
	NS	GL	L [mm]	Art.-No. Hülse-GL *sleeve-GL*	Art.-No. Kern-GL *cone-GL*
NS/GL-System	14/23	GL14	80	PANSS1423/GL14	PANSC1423/GL14
	14/23	GL18	100	PANSS1423/GL18	PANSC1423/GL18
	14/35	GL18	100	PANSS1435/GL18	PANSC1435/GL18
	19/26	GL18	100	PANSS1926/GL18	PANSC1926/GL18
	24/29	GL18	110	PANSS2429/GL18	PANSC2429/GL18
	24/40	GL18	110	PANSS2440/GL18	PANSC2440/GL18
	29/32	GL18	100	PANSS2932/GL18	PANSC2932/GL18
	29/42	GL18	110	PANSS2942/GL18	PANSC2942/GL18
	14/23	GL25	100	PANSS1423/GL25	PANSC1423/GL25
	14/35	GL25	100	PANSS1435/GL25	PANSC1435/GL25
	19/26	GL25	100	PANSS1926/GL25	PANSC1926/GL25
	24/29	GL25	110	PANSS2429/GL25	PANSC2429/GL25
	24/40	GL25	120	PANSS2440/GL25	PANSC2440/GL25
	29/32	GL25	100	PANSS2932/GL25	PANSC2932/GL25
	29/42	GL25	110	PANSS2942/GL25	PANSC2942/GL25
	24/29	GL32	110	PANSS2429/GL32	PANSC2429/GL32
	24/40	GL32	120	PANSS2440/GL32	PANSC2440/GL32
	29/32	GL32	110	PANSS2932/GL32	PANSC2932/GL32
	29/42	GL32	120	PANSS2942/GL32	PANSC2942/GL32
	45/40	GL32	120	PANSS4540/GL32	PANSC4540/GL32
	45/50	GL32	130	PANSS4550/GL32	PANSC4550/GL32
	24/29	GL45	120	PANSS2429/GL45	PANSC2429/GL45
	24/40	GL45	130	PANSS2440/GL45	PANSC2440/GL45
	29/32	GL45	110	PANSS2932/GL45	PANSC2932/GL45
	29/42	GL45	130	PANSS2942/GL45	PANSC2942/GL45
	45/40	GL45	120	PANSS4540/GL45	PANSC4540/GL45
	45/50	GL45	130	PANSS4550/GL45	PANSC4550/GL45

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PANSS2942/GL18-C3 *Coating dissipative -C3 - Example PANSS2942/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PANSS2942/GL18-C4 *Coating UV protection brown -C4 - Example PANSS2942/GL18-C4*

- Zur Verbindung unterschiedlicher NS-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, 90°, symmetrisch, NS, GL

Adapter, 90°, symmetrical, NS, GL

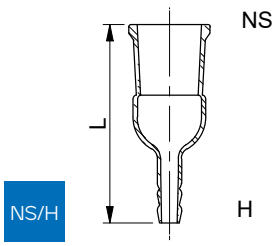
	NS	GL	L [mm]	L1 [mm]	Art.-No. Hülse-GL *sleeve-GL*	Art.-No. Kern-GL *cone-GL*
	14/23	GL18	80	60	PA90/NSS1423/GL18	PA90/NSC1423/GL18
NS/GL-System	14/35	GL18	80	60	PA90/NSS1435/GL18	PA90/NSC1435/GL18
	19/26	GL18	80	60	PA90/NSS1926/GL18	PA90/NSC1926/GL18
	24/29	GL18	80	60	PA90/NSS2429/GL18	PA90/NSC2429/GL18
	24/40	GL18	80	60	PA90/NSS2440/GL18	PA90/NSC2440/GL18
	29/32	GL18	80	60	PA90/NSS2932/GL18	PA90/NSC2932/GL18
	29/42	GL18	90	60	PA90/NSS2942/GL18	PA90/NSC2942/GL18
	14/23	GL25	80	60	PA90/NSS1423/GL25	PA90/NSC1423/GL25
	14/35	GL25	80	60	PA90/NSS1435/GL25	PA90/NSC1435/GL25
	19/26	GL25	80	60	PA90/NSS1926/GL25	PA90/NSC1926/GL25
	24/29	GL25	80	60	PA90/NSS2429/GL25	PA90/NSC2429/GL25
	24/40	GL25	80	60	PA90/NSS2440/GL25	PA90/NSC2440/GL25
	29/32	GL25	80	60	PA90/NSS2932/GL25	PA90/NSC2932/GL25
	29/42	GL25	90	60	PA90/NSS2942/GL25	PA90/NSC2942/GL25
	24/29	GL32	80	80	PA90/NSS2429/GL32	PA90/NSC2429/GL32
	24/40	GL32	90	80	PA90/NSS2440/GL32	PA90/NSC2440/GL32
	29/32	GL32	100	80	PA90/NSS2932/GL32	PA90/NSC2932/GL32
	29/42	GL32	110	80	PA90/NSS2942/GL32	PA90/NSC2942/GL32
	45/40	GL32	100	80	PA90/NSS4540/GL32	PA90/NSC4540/GL32
	45/50	GL32	110	80	PA90/NSS4550/GL32	PA90/NSC4550/GL32
	24/29	GL45	100	100	PA90/NSS2429/GL45	PA90/NSC2429/GL45

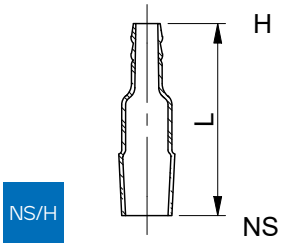
- Zur Verbindung unterschiedlicher NS-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

	NS	GL	L [mm]	L1 [mm]	Art.-No. Hülse-GL *sleeve-GL*	Art.-No. Kern-GL *cone-GL*
NS/GL-System	24/40	GL45	110	100	PA90/NSS2440/GL45	PA90/NSC2440/GL45
	29/32	GL45	110	100	PA90/NSS2932/GL45	PA90/NSC2932/GL45
	29/42	GL45	120	100	PA90/NSS2942/GL45	PA90/NSC2942/GL45
	45/40	GL45	110	100	PA90/NSS4540/GL45	PA90/NSC4540/GL45
	45/50	GL45	120	100	PA90/NSS4550/GL45	PA90/NSC4550/GL45

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA90/NSS2932/GL18-C3 *Coating dissipative -C3 - Example PA90/NSS2932/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/NSS2932/GL18-C4 *Coating UV protection brown -C4 - Example PA90/NSS2932/GL18-C4*





Adapter, symmetrisch, NS, H

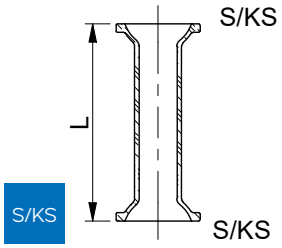
Adapter, symmetrical, NS, H

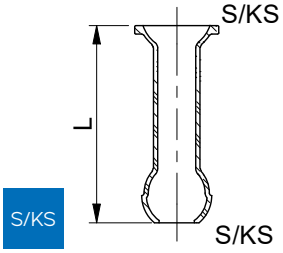
	NS	H	L [mm]	Art.-No. Hülse-H *sleeve-H*	Art.-No. Kern-H *cone-H*
NS/H-System	14/23	H09	90	PANSS1423/H09	PANSC1423/H09
	14/35	H09	90	PANSS1435/H09	PANSC1435/H09
	19/26	H09	100	PANSS1926/H09	PANSC1926/H09
	24/29	H09	100	PANSS2429/H09	PANSC2429/H09
	24/40	H09	110	PANSS2440/H09	PANSC2440/H09
	29/32	H09	190	PANSS2932/H09	PANSC2932/H09
	29/42	H09	100	PANSS2942/H09	PANSC2942/H09
	14/23	H11	90	PANSS1423/H11	PANSC1423/H11
	14/35	H11	90	PANSS1435/H11	PANSC1435/H11
	19/26	H11	100	PANSS1926/H11	PANSC1926/H11
	24/29	H11	100	PANSS2429/H11	PANSC2429/H11
	24/40	H11	110	PANSS2440/H11	PANSC2440/H11
	29/32	H11	90	PANSS2932/H11	PANSC2932/H11
	29/42	H11	100	PANSS2942/H11	PANSC2942/H11
	24/29	H13	100	PANSS2429/H13	PANSC2429/H13
	24/40	H13	110	PANSS2440/H13	PANSC2440/H13
	29/32	H13	100	PANSS2932/H13	PANSC2932/H13
	29/42	H13	100	PANSS2942/H13	PANSC2942/H13
	45/40	H13	110	PANSS4540/H13	PANSC4540/H13
	45/50	H13	120	PANSS4550/H13	PANSC4550/H13

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PANSS2942/H09-C3 *Coating dissipative -C3 - Example PANSS2942/H09-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PANSS2942/H09-C4 *Coating UV protection brown -C4 - Example PANSS2942/H09-C4*

- Zur Verbindung unterschiedlicher NS-Anschlüsse mit Schlauchanschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different NS-connections with hose connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

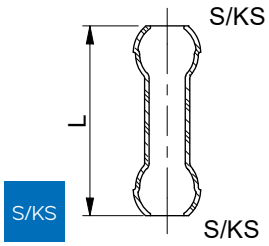




Adapter, symmetrisch, S/KS, S/KS

Adapter, symmetrical, S/KS, S/KS

	S/KS	Norm	S/KS	L [mm]	Art.-No. Schale-Schale *cup-cup*	Art.-No. Schale-Kugel *cup-ball*	Art.-No. Kugel-Schale *ball-cup*	Art.-No. Kugel-Kugel *ball-ball*
S/KS-System	19/09	Zoll	19/09	60	PASC1909/ SC1909			
				80		PASC1909/ SB1909		PASB1909/ SB1909
	19/09	Zoll	29/15	80	PASC1909/ SC2915	PASC1909/ SB2915	PASB1909/ SC2915	PASB1909/ SB2915
	18/09	mm	18/09	60	PAKSC1809/ KSC1809			
				80		PAKSC1809/ KSB1809		PAKSB1809/ KSB1809
	18/09	mm	28/15	60	PAKSC1809/ KSC2815			
				80		PAKSC1809/ KSB2815	PAKSB1809/ KSC2815	PAKSB1809/ KSB2815
	29/15	Zoll	29/15	80	PASC2915/ SC2915	PASC2915/ SB2915		
				90				PASB2915/ SB2915
	29/15	Zoll	35/24	80	PASC2915/ SC3525	PASC2915/ SB3525	PASB2915/ SB3525	PASB2915/ SB3525
	28/15	mm	28/15	60	PAKSC2815/ KSC2815			
				80		PAKSC2815/ KSB2815		PAKSB2815/ KSB2815
	28/15	mm	35/25	80	PAKSC2815/ KSC3525	PAKSC2815/ KSB3525	PAKSB2815/ KSC3525	PAKSB2815/ KSB3525
	35/24	Zoll	35/24	80	PASC3524/ SC3524	PASC3524/ SB3524		
				90				PASB3524/ SB3524
	35/24	Zoll	38/24	80	PASC3524/ SC3824			
				90		PASC3524/ SB3824	PASB3524/ SC3824	
				100				PASB3524/ SB3824
	35/25	mm	35/25	80	PAKSC3525/ KSC3525	PAKSC3525/ KSB3525		PAKSB3525/ KSB3525
	35/25	mm	50/30	80	PAKSC3525/ KSC5030	PAKSC3525/ KSB5030		
				100			PAKSB3524/ KSC5030	PAKSB3524/ KSB5030



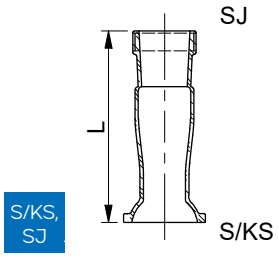
S/KS

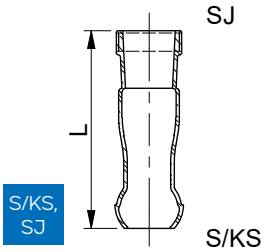
	S/KS	Norm	S/KS	L [mm]	Art.-No. Schale-Schale *cup-cup*	Art.-No. Schale-Kugel *cup-ball*	Art.-No. Kugel-Schale *ball-cup*	Art.-No. Kugel-Kugel *ball-ball*
S/KS-System	38/24	Zoll	38/24	80	PASC3824/ SC3824			
				100		PASC3824/ SB3824		
				110				PASB3824/ SB3824
	38/24	Zoll	51/30	90	PASC3824/ SC5130			
				100			PASB3824/ SC5130	
				110		PASC3824/ SB5130		
				120				PASB3824/ SB5130
	51/30	Zoll	51/30	90	PASC5130/ SC5130			
				110		PASC5130/ SB5130		
				130				PASB5130/ SB5130
	50/30	mm	50/30	80	PAKSC5030/ KSC5030			
				100		PAKSC5030/ KSB5030		PAKSB5030/ KSB5030

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASC2915/SC2915-C3 *Coating dissipative -C3 - Example PASC2915/SC2915-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASC2915/SC2915-C4 *Coating UV protection brown -C4 - Example PASC2915/SC2915-C4*

- Zur Verbindung unterschiedlicher S/KS-Größen und Kugel/Schale
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

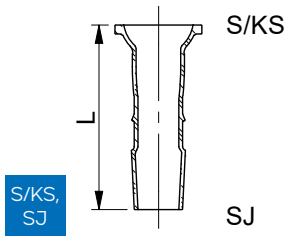
- *For connecting different S/KS sizes and ball/cup*
- *High wall thicknesses for long life and pressure stability*
- *Compatible with SJ joints*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

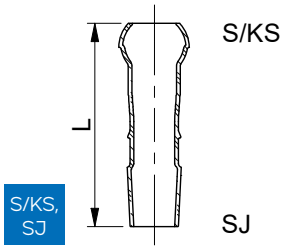




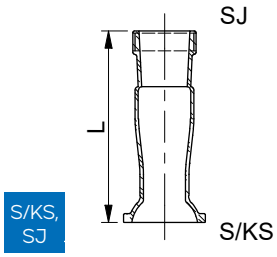
Adapter, symmetrisch, S/KS, SJ *Adapter, symmetrical, S/KS, SJ*

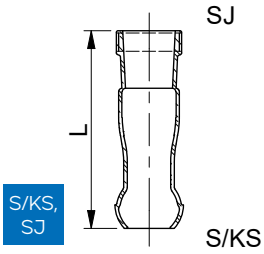
	SJ	Norm	S/KS	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/S/KS-System	14/23	Zoll	19/09	80	PASJS1423/ SC1909	PASJS1423/ SB1909		
				100			PASJC1423/ SC1909	PASJC1423/ SB1909
	14/23	Zoll	29/15	80	PASJS1423/ SC2915			
				90		PASJS1423/ SB2915		
				100			PASJC1423/ SC2915	
				110				PASJC1423/ SB2915
	14/23	mm	18/09	80	PASJS1423/ KSC1809	PASJS1423/ KSB1809		
				100			PASJC1423/ KSC1809	PASJC1423/ KSB1809
	14/23	mm	28/15	80	PASJS1423/ KSC2815	PASJS1423/ KSB2815		
				100			PASJC1423/ KSC2815	
				110				PASJC1423/ KSB2815
	19/26	Zoll	19/09	80	PASJS1926/ SC1909			
				90		PASJS1926/ SB1909		
				110			PASJC1926/ SC1909	PASJC1926/ SB1909
	19/26	Zoll	29/15	90	PASJS1926/ SC2915			
				100		PASJS1926/ SB2915		
				110			PASJC1926/ SC2915	
				120				PASJC1926/ SB2915
	19/26	mm	18/09	80	PASJS1926/ KSC1809			
				90		PASJS1926/ KSB1809		
				110			PASJC1926/ KSC1809	PASJC1926/ KSB1809





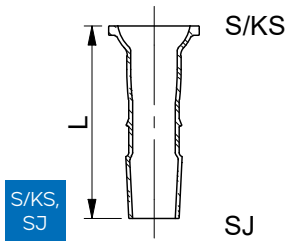
	SJ	Norm	S/KS	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/S/KS-System	19/26	mm	28/15	80	PASJS1926/ KSC2815			
				90		PASJS1926/ KSB2815		
				110			PASJC1926/ KSC2815	
				120				PASJC1926/ KSB2815
	24/29	Zoll	29/15	100	PASJS2429/ SC2915			
				110		PASJS2429/ SB2915	PASJC2429/ SC2915	
				120				PASJC2429/ SB2915
	24/29	Zoll	35/24	100	PASJS2429/ SC3524			
				110		PASJS2429/ SB3524	PASJC2429/ SC3524	
				120				PASJC2429/ SB3524
	24/29	mm	28/15	90	PASJS2429/ KSC2815			
				100		PASJS2429/ KSB2815		
				110			PASJC2429/ KSC2815	
				120				PASJC2429/ KSB2815
	24/29	mm	35/25	100	PASJS2429/ KSC3525	PASJS2429/ KSB3525		
				110			PASJC2429/ KSC3525	
				120				PASJC2429/ KSB3525
	29/32	Zoll	35/24	100	PASJS2932/ SC3524			
				110		PASJS2932/ SB3524		
				120			PASJC2932/ SC3524	
				130				PASJC2932/ SB3524

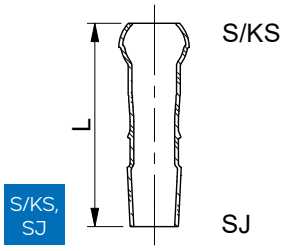




Adapter, symmetrisch, S/KS, SJ *Adapter, symmetrical, S/KS, SJ*

	SJ	Norm	S/KS	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/S/KS-System	29/32	Zoll	38/24	100	PASJS2932/ SC3824			
				120		PASJS2932/ SB3824	PASJC2932/ SC3824	
				140				PASJC2932/ SB3824
	29/32	mm	35/25	100	PASJS2932/ KSC3525	PASJS2932/ KSB3525		
				120			PASJC2932/ KSC3525	PASJC2932/ KSB3525
	29/32	mm	50/30	100	PASJS2932/ KSC5030			
				120		PASJS2932/ KSB5030	PASJC2932/ KSC5030	
				140				PASJC2932/ KSB5030
	34/35	Zoll	35/24	100	PASJS3435/ SC3524			
				110		PASJS3435/ SB3524		
				120			PASJC3435/ SC3524	
				130				PASJC3435/ SB3524
	34/35	Zoll	38/24	100	PASJS3435/ SC3824			
				120		PASJS3435/ SB3824	PASJC3435/ SC3824	
				140				PASJC3435/ SB3824
	34/35	mm	35/25	100	PASJS3435/ KSC3525	PASJS3435/ KSB3525		
				120			PASJC3435/ KSC3525	PASJC3435/ KSB3525
	34/35	mm	50/30	100	PASJS3435/ KSC5030	PASJS3435/ KSB5030		
				120			PASJC3435/ KSC5030	PASJC3435/ KSB5030
				140				



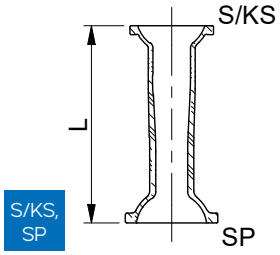


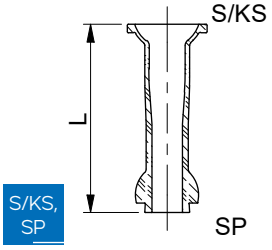
	SJ	Norm	S/KS	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/S/KS-System	45/40	Zoll	38/24	110	PASJS4540/ SC3824			
				130		PASJS4540/ SB3824	PASJC4540/ SC3824	
				150				PASJC4540/ SB3824
	45/40	Zoll	51/30	120	PASJS4540/ SC5130			
				140		PASJS4540/ SB5130	PASJC4540/ SC5130	
				160				PASJC4540/ SB5130
	45/40	mm	35/25	110	PASJS4540/ KSC3525	PASJS4540/ KSB3525		
				130			PASJC4540/ KSC3525	PASJC4540/ KSB3525
	45/40	mm	50/30	110	PASJS4540/ KSC5030			
				130		PASJS4540/ KSB5030	PASJC4540/ KSC5030	
				150				PASJC4540/ KSB5030

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASJS2932/SC3525-C3 *Coating dissipative -C3 - Example PASJS2932/SC3525-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASJS2932/SC3525-C4 *Coating UV protection brown -C4 - Example PASJS2932/SC3525-C4*

- Zur Verbindung unterschiedlicher S/KS-Anschlüsse mit SJ-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

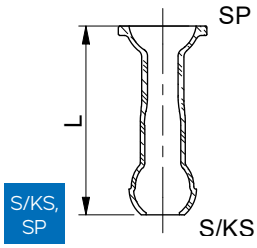
- *For connecting different S/KS-connections with SJ-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

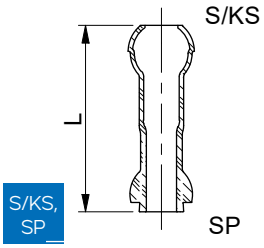




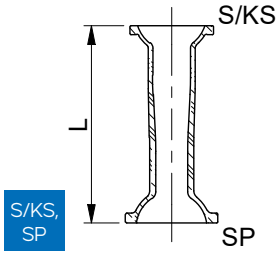
Adapter, symmetrisch, S/KS, SP *Adapter, symmetrical, S/KS, SP*

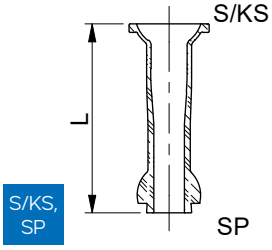
	S/KS	Norm	SP	L [mm]	Art.-No. Schale-Schale *cup-cup*	Art.-No. Schale-Kugel *cup-ball*	Art.-No. Kugel-Schale *ball-cup*	Art.-No. Kugel-Kugel *ball-ball*
S/KS/SP-System	19/09	Zoll	19/09	60	PASC1909/ SPC1909	PASC1909/ SPB1909		
							PASB1909/ SPC1909	PASB1909/ SPB1909
	19/09	Zoll	29/13	80	PASC1909/ SPC2913	PASC1909/ SPB2913	PASB1909/ SPC2913	PASB1909/ SPB2913
	18/09	mm	19/09	60	PAKSC1809/ SPC1909	PAKSC1809/ SPB1909		
				80			PAKSB1809/ SPC1909	PAKSB1809/ SPB1909
	18/09	mm	29/13	80	PAKSC1809/ SPC2913	PAKSC1809/ SPB2913	PAKSB1809/ SPC2913	PAKSB1809/ SPB2913
	29/15	Zoll	29/13	80	PASC2915/ SPC2913	PASC2915/ SPB2913		
				90			PASB2915/ SPC2913	PASB2915/ SPB2913
	29/15	Zoll	35/19	80	PASC2915/ SPC3519	PASC2915/ SPB3519		
				90			PASB2915/ SPC3519	PASB2915/ SPB3519
	28/15	mm	29/13	80	PAKSC2815/ SPC2913	PAKSC2815/ SPB2913	PAKSB2815/ SPC2913	PAKSB2815/ SPB2913
	28/15	mm	35/19	80	PAKSC2815/ SPC3519	PAKSC2815/ SPB3519	PAKSB2815/ SPC3519	
				90				PAKSB2815/ SPB3519
	35/24	Zoll	35/19	80	PASC3524/ SPC3519	PASC3524/ SPB3519		
				90			PASB3524/ SPC3519	PASB3524/ SPB3519
	35/24	Zoll	41/24	80	PASC3524/ SPC4124			
				90		PASC3524/ SPB4124	PASB3524/ SPC4124	
				100				PASB3524/ SPB4124
	35/25	mm	35/19	80	PAKSC3525/ SPC3519	PAKSC3525/ SPB3519	PAKSB3525/ SPC3519	
				90				PAKSB3525/ SPB3519





	S/KS	Norm	SP	L [mm]	Art.-No. Schale-Schale *cup-cup*	Art.-No. Schale-Kugel *cup-ball*	Art.-No. Kugel-Schale *ball-cup*	Art.-No. Kugel-Kugel *ball-ball*
S/KS/SP-System	35/25	mm	41/24	80	PAKSC3525/ SPC4124			
				90		PAKSC3525/ SPB4124	PAKSB3525/ SPC4124	PAKSB3525/ SPB4124
	38/24	Zoll	41/24	90	PASC3824/ SPC4124	PASC3824/ SPB4124		
				100			PASB3824/ SPC4124	PASB3824/ SPB4124
	38/24	Zoll	64/41	100	PASC3824/ SPC6441			
				110		PASC3824/ SPB6441		
				120			PASB3824/ SPC6441	PASB3824/ SPB6441
	51/30	Zoll	64/41	110	PASC5130/ SPC6441	PASC5130/ SPB6441	PASB5130/ SPC6441	
				130				PASB5130/ SPB6441
	50/30	mm	64/41	100	PAKSC5030/ SPC6441			
				110		PAKSC5030/ SPB6441		
				130			PAKSB5030/ SPC6441	PAKSB5030/ SPB6441
	38/24	Zoll	90/70	100	PASC3824/ SPC9070			
				110		PASC3824/ SPB9070	PASB3824/ SPC9070	
				130				PASB3824/ SPB9070
	51/30	Zoll	90/70	110	PASC5130/ SPC9070			
				120		PASC5130/ SPB9070		
				130			PASB5130/ SPC9070	
				140				PASB5130/ SPB9070

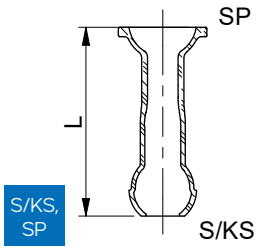


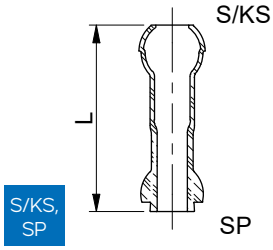


Adapter, symmetrisch, S/KS, SP *Adapter, symmetrical, S/KS, SP*

	S/KS	Norm	SP	L [mm]	Art.-No. Schale-Schale *cup-cup*	Art.-No. Schale-Kugel *cup-ball*	Art.-No. Kugel-Schale *ball-cup*	Art.-No. Kugel-Kugel *ball-ball*
S/KS/SP-System	50/30	mm	90/70	100	PAKSC5030/ SPC9070			
				110		PAKSC5030/ SPB9070		
				120			PAKSB5030/ SPC9070	
				130				PAKSB5030/ SPB9070

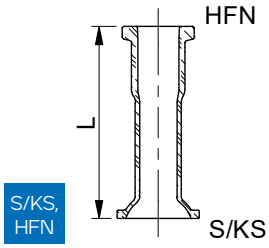
Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PASC2915/SPC2915-C3 *Coating dissipative -C3 - Example PASC2915/SPC2915-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASC2915/SPC2915-C4 *Coating UV protection brown -C4 - Example PASC2915/SPC2915-C4*

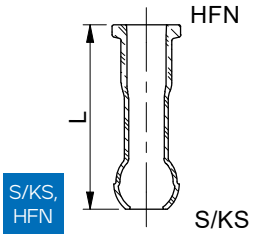




- Zur Verbindung unterschiedlicher S/KS-Anschlüsse mit SP-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different S/KS-connections with SP-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





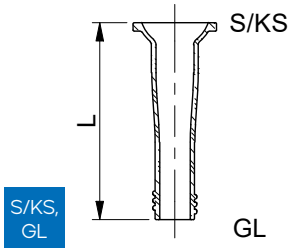
Adapter, symmetrisch, S/KS, HF *Adapter, symmetrical, S/KS, HF*

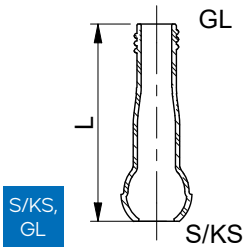
	DN	S/KS	Norm	L [mm]	Art.-No. Flansch-Schale *flange-cup*	Art.-No. Flansch-Kugel *flange-ball*
HF/S/KS-System	HF16	19/09	Zoll	60	PAHFN16/SC1909	PAHFN16/SB1909
	HF16	29/15	Zoll	80	PAHFN16/SC2915	PAHFN16/SB2915
	HF16	18/09	mm	60	PAHFN16/KSC1809	PAHFN16/KSB1809
	HF16	28/15	mm	60	PAHFN16/KSC2815	PAHFN16/KSB2815
	HF25	29/15	Zoll	90	PAHFN25/SC2915	PAHFN25/SB2915
	HF25	35/24	Zoll	90	PAHFN25/SC3524	PAHFN25/SB3524
	HF25	28/15	mm	80	PAHFN25/KSC2815	PAHFN25/KSB2815
	HF25	35/24	mm	80	PAHFN25/KSC3524	PAHFN25/KSB3524
	HF40	35/24	Zoll	90	PAHFN40/SC3524	PAHFN40/SB3524
	HF40	38/24	Zoll	80	PAHFN40/SC3824	
				100		PAHFN40/SB3824
	HF40	51/30	Zoll	90	PAHFN40/SC5130	
				110		PAHFN40/SB5130
	HF40	35/24	mm	90	PAHFN40/KSC3524	PAHFN40/KSB3524
	HF40	50/30	mm	80	PAHFN40/KSC5030	
				100		PAHFN40/KSB5030
	HF50	35/24	Zoll	90	PAHFN50/SC3524	PAHFN50/SB3524
	HF50	38/24	Zoll	80	PAHFN50/SC3824	
				100		PAHFN50/SB3824
	HF50	51/30	Zoll	90	PAHFN50/SC5130	
				110		PAHFN50/SB5130
	HF50	35/24	mm	80	PAHFN50/KSC3524	PAHFN50/KSB3524
	HF50	50/30	mm	80	PAHFN50/KSC5030	
				100		PAHFN50/KSB5030

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PAHFN25/SC2915-C3 *Coating dissipative -C3 - Example PAHFN25/SC2915-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAHFN25/SC2915-C4 *Coating UV protection brown -C4 - Example PAHFN25/SC2915-C4*

- Zur Verbindung unterschiedlicher S/KS-Anschlüsse mit HF-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different S/KS-connections with HF-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





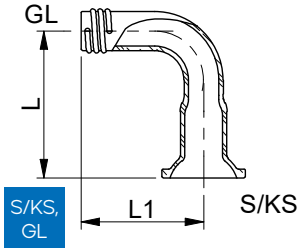
Adapter, symmetrisch, S/KS, GL *Adapter, symmetrical, S/KS, GL*

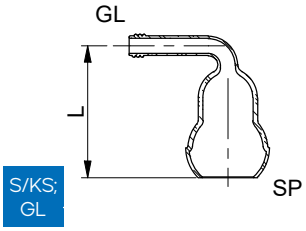
	S/KS	Norm	GL	L [mm]	Art.-No. Schale-GL *cup-GL*	Art.-No. Kugel-GL *ball-GL*
S/KS/GL-System	19/09	Zoll	GL18	80	PASC1909/GL18	PASB1909/GL18
	29/15	Zoll	GL18	90	PASC2915/GL18	PASB2915/GL18
	35/24	Zoll	GL18	90	PASC3524/GL18	PASB3524/GL18
	18/09	mm	GL18	80	PAKSC1809/GL18	PAKSB1809/GL18
	28/15	mm	GL18	80	PAKSC2815/GL18	PAKSB2815/GL18
	35/25	mm	GL18	80	PAKSC3525/GL18	PAKSB3525/GL18
	29/15	Zoll	GL25	90	PASC2915/GL25	PASB2915/GL25
	35/24	Zoll	GL25	90	PASC3524/GL25	PASB3524/GL25
	38/24	Zoll	GL25	80	PASC3824/GL25	
				100		PASB3824/GL25
	28/15	mm	GL25	80	PAKSC2815/GL25	PAKSB2815/GL25
	35/25	mm	GL25	80	PAKSC3525/GL25	PAKSB3525/GL25
	50/30	mm	GL25	80	PAKSC5030/GL25	
				100		PAKSB5030/GL25
	29/15	Zoll	GL32	90	PASC2915/GL32	PASB2915/GL32
	35/24	Zoll	GL32	90	PASC3524/GL32	PASB3524/GL32
	38/24	Zoll	GL32	100	PASC3824/GL32	PASB3824/GL32
	28/15	mm	GL32	90	PAKSC2815/GL32	PAKSB2815/GL32
	35/25	mm	GL32	90	PAKSC3525/GL32	PAKSB3525/GL32
	50/30	mm	GL32	90	PAKSC5030/GL32	
				110		PAKSB5030/GL32
	35/24	Zoll	GL45	100	PASC3524/GL45	PASB3524/GL45
	38/24	Zoll	GL45	90	PASC3824/GL45	
				110		PASB3824/GL45
	51/30	Zoll	GL45	90	PASC5130/GL45	
				120		PASB5130/GL45
	28/15	mm	GL45	90	PAKSC2815/GL45	PAKSB2815/GL45
	35/25	mm	GL45	90	PAKSC3525/GL45	PAKSB3525/GL45
	50/30	mm	GL45	90	PAKSC5030/GL45	
				110		PAKSB5030/GL45

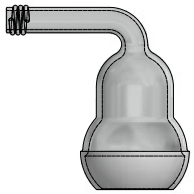
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASC2915/GL25-C3 *Coating dissipative -C3 - Example PASC2915/GL25-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASC2915/GL25-C4 *Coating UV protection brown -C4 - Example PASC2915/GL25-C4*

- Zur Verbindung unterschiedlicher S/KS-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3
- Material produktberührend mit VH: Borosilikatglas 3.3/PTFE

- *For connecting different S/KS-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*
- *Material product contacting with VH: borosilicate glass 3.3/PTFE*







Adapter, 90°, symmetrisch, S/KS, GL

Adapter, 90°, symmetrical, S/KS, GL

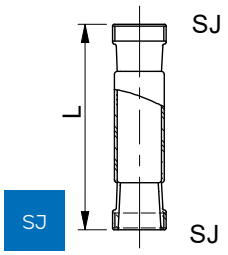
	S/KS	Norm	HF	L [mm]	L1 [mm]	Art.-No. Schale-GL *cup-GL*	Art.-No. Kugel-GL *ball-GL*
S/KS/GL-System	19/09	Zoll	GL18	60	60	PA90/SC1909/GL18	PA90/SB1909/GL18
	29/15	Zoll	GL18	60	60	PA90/SC2915/GL18	PA90/SB2915/GL18
	35/24	Zoll	GL18	60	60	PA90/SC3524/GL18	PA90/SB3524/GL18
	18/09	mm	GL18	60	60	PA90/KSC1809/GL18	PA90/KSB1809/GL18
	28/15	mm	GL18	60	60	PA90/KSC2815/GL18	PA90/KSB2815/GL18
	35/25	mm	GL18	60	60	PA90/KSC3525/GL18	PA90/KSB3525/GL18
	29/15	Zoll	GL25	80	60	PA90/SC2915/GL25	PA90/SB2915/GL25
	35/24	Zoll	GL25	80	60	PA90/SC3524/GL25	PA90/SB3524/GL25
	38/24	Zoll	GL25	90	60	PA90/SC3824/GL25	PA90/SB3824/GL25
	28/15	mm	GL25	80	60	PA90/KSC2815/GL25	PA90/KSB2815/GL25
	35/25	mm	GL25	80	60	PA90/KSC3525/GL25	PA90/KSB3525/GL25
	50/30	mm	GL25	100	60	PA90/KSC5030/GL25	PA90/KSB5030/GL25
	29/15	Zoll	GL32	80	80	PA90/SC2915/GL32	PA90/SB2915/GL32
	35/24	Zoll	GL32	80	80	PA90/SC3524/GL32	PA90/SB3524/GL32
	38/24	Zoll	GL32	80	80	PA90/SC3824/GL32	PA90/SB3824/GL32
	28/15	mm	GL32	80	80	PA90/KSC2815/GL32	PA90/KSB2815/GL32
	35/25	mm	GL32	80	80	PA90/KSC3525/GL32	PA90/KSB3525/GL32
	50/30	mm	GL32	100	80	PA90/KSC5030/GL32	PA90/KSB5030/GL32
	35/24	Zoll	GL45	100	100	PA90/SC3524/GL45	PA90/SB3524/GL45
	38/24	Zoll	GL45	100	100	PA90/SC3824/GL45	PA90/SB3824/GL45
	51/30	Zoll	GL45	110	100	PA90/SC5130/GL45	PA90/SB5130/GL45

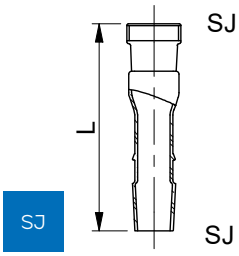
- Zur Verbindung unterschiedlicher S/KS-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3
- Material produktberührend mit VH: Borosilikatglas 3.3/PTFE

- *For connecting different S/KS-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*
- *Material product contacting with VH: borosilicate glass 3.3/PTFE*

	S/KS	Norm	HF	L [mm]	L1 [mm]	Art.-No. Schale-GL *cup-GL*	Art.-No. Kugel-GL *ball-GL*
S/KS/GL-System	28/15	mm	GL45	110	100	PA90/KSC2815/GL45	PA90/KSB2815/GL45
	35/25	mm	GL45	110	100	PA90/KSC3525/GL45	PA90/KSB3525/GL45
	50/30	mm	GL45	110	100	PA90/KSC5030/GL45	PA90/KSB5030/GL45

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PA90/SC2915/GL25-C3 *Coating dissipative -C3 - Example PA90/SC2915/GL25-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/SC2915/GL25-C4 *Coating UV protection brown -C4 - Example PA90/SC2915/GL25-C4*



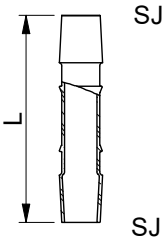


Adapter, symmetrisch, SJ, SJ

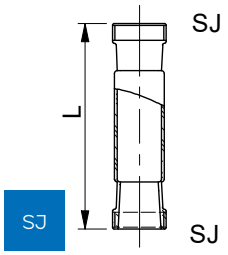
Adapter, symmetrical, SJ, SJ

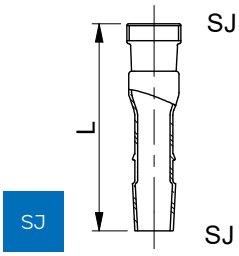
	NS	NS	L	Art.-No.	Art.-No.	Art.-No.	Art.-No.
			[mm]	Hülse-Hülse *sleeve-sleeve*	Hülse-Kern *sleeve-cone*	Kern-Hülse *cone-sleeve*	Kern-Kern *cone-cone*
SJ-System	14/23	14/23	80	PASJS1423/ SJS1423			
			110		PASJS1423/ SJC1423		
			130				PASJC1423/ SJC1423
	14/23	19/26	90	PASJS1423/ SJS1926			
			120		PASJS1423/ SJC1926	PASJC1423/ SJS1926	
			130				PASJC1423/ SJC1926
	14/23	24/29	100	PASJS1423/ SJS2429			
			130		PASJS1423/ SJC2429	PASJC1423/ SJS2429	
			140				PASJC1423/ SJC2429
	14/23	29/32	100	PASJS1423/ SJS2932			
			120		PASJS1423/ SJC2932	PASJC1423/ SJS2932	
			140				PASJC1423/ SJC2932
	19/26	19/26	100	PASJS1926/ SJS1926			
			130		PASJS1926/ SJC1926		
			140				PASJC1926/ SJC1926
	19/26	24/29	110	PASJS1926/ SJS2429			
			140		PASJS1926/ SJC2429	PASJC1926/ SJS2429	
			150				PASJC1926/ SJC2429
	19/26	29/32	110	PASJS1926/ SJS2932			
			140		PASJS1926/ SJC2932	PASJC1926/ SJS2932	

SJ



	NS	NS	L	Art.-No.	Art.-No.	Art.-No.	Art.-No.
			[mm]	Hülse-Hülse *sleeve-sleeve*	Hülse-Kern *sleeve-cone*	Kern-Hülse *cone-sleeve*	Kern-Kern *cone-cone*
SJ-System			150				PASJC1926/ SJC2932
	19/26	34/35	110	PASJS1926/ SJS3435			
			140		PASJS1926/ SJC3435	PASJC1926/ SJS3435	
			150				PASJC1926/ SJC3435
	24/29	24/29	120	PASJS2429/ SJS2429			
			140		PASJS2429/ SJC2429		
			150				PASJC2429/ SJC2429
	24/29	29/32	120	PASJS2429/ SJS2932			
			140		PASJS2429/ SJC2932	PASJC2429/ SJS2932	
			150				PASJC2429/ SJC2932
	24/29	34/35	120	PASJS2429/ SJS3435			
			140		PASJS2429/ SJC3435	PASJC2429/ SJS3435	
			160				PASJC2429/ SJC3435
	24/29	45/40	130	PASJS2429/ SJS4540			
			150		PASJS2429/ SJC4540	PASJC2429/ SJS4540	
			170				PASJC2429/ SJC4540
	29/32	29/32	120	PASJS2932/ SJS2932			
			140		PASJS2932/ SJC2932		
			160				PASJC2932/ SJC2932
	29/32	34/35	120	PASJS2932/ SJS3435			



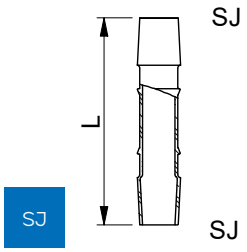


Adapter, symmetrisch, SJ, SJ

Adapter, symmetrical, SJ, SJ

	NS	NS	L [mm]	Art.-No. Hülse-Hülse *sleeve-sleeve*	Art.-No. Hülse-Kern *sleeve-cone*	Art.-No. Kern-Hülse *cone-sleeve*	Art.-No. Kern-Kern *cone-cone*
SJ-System			140		PASJS2932/ SJC3435	PASJC2932/ SJS3435	
			160				PASJC2932/ SJC3435
	29/32	45/40	130	PASJS2932/ SJS4540			
			150		PASJS2932/ SJC4540	PASJC2932/ SJS4540	
			170				PASJC2932/ SJC4540
	34/35	34/35	120	PASJS3435/ SJS3435			
			140		PASJS3435/ SJC3435		
			160				PASJC3435/ SJC3435
	34/35	45/40	130	PASJS3435/ SJS4540			
			150		PASJS3435/ SJC4540	PASJC3435/ SJS4540	
			170				PASJC3435/ SJC4540
	45/40	45/40	140	PASJS4540/ SJS4540			
			160		PASJS4540/ SJC4540		
			180				PASJC4540/ SJC4540

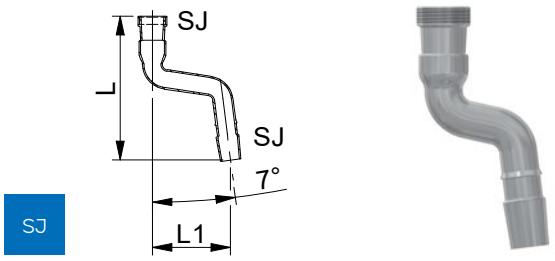
Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASJS2932/SJS2932-C3 *Coating dissipative -C3 - Example PASJS2932/SJS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASJS2932/SJS2932-C4 *Coating UV protection brown -C4 - Example PASJS2932/SJS2932-C4*



SJ

- Zur Verbindung unterschiedlicher SJ-Größen und Hülse/Kern
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Kompatibel zu NS-Schliffen
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SJ sizes and sleeve/cone*
- *High wall thicknesses for long life and pressure stability*
- *Compatible with NS joints*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



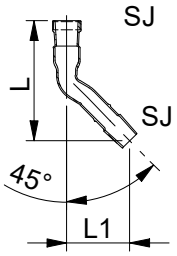
Schwanenhals, SJ, SJ

Swan neck, SJ, SJ

	SJ	SJ	L	L1	Art.-No.	Art.-No.	Art.-No.
			[mm]	[mm]	Kern-Hülse 7°/ *cone-sleeve 7°*	Kern-Hülse 20°/ *cone-sleeve 20°*	Kern-Hülse 45°/ *cone-sleeve 45°*
NS-System	24/29	24/29	190	100	PSN07/SJC2429/SJS2429		
			180	80		PSN20/SJC2429/SJS2429	
			150	80			PSN45/SJC2429/SJS2429
	24/29	29/32	190	100	PSN07/SJC2429/SJS2932		
			180	80		PSN20/SJC2429/SJS2932	
			150	80			PSN45/SJC2429/SJS2932
	29/32	29/32	190	100	PSN07/SJC2932/SJS2932		
			180	80		PSN20/SJC2932/SJS2932	
			150	80			PSN45/SJC2932/SJS2932
	34/45	34/45	200	80	PSN07/SJC3435/SJS3435		
			200	70		PSN20/SJC3435/SJS3435	
			160	100			PSN45/SJC3435/SJS3435
	34/45	45/40	200	80	PSN07/SJC3435/SJS4540		
			200	80		PSN20/SJC3435/SJS4540	
			160	110			PSN45/SJC3435/SJS4540
	45/40	45/40	220	80	PSN07/SJC4540/SJS4540		
			220	80		PSN20/SJC4540/SJS4540	
			190	110			PSN45/SJC4540/SJS4540

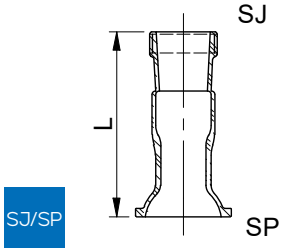
Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PSN07/SJC2932/SJS2932-C3 *Coating dissipative -C3 - Example PSN07/SJC2932/SJS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PSN07/SJC2932/SJS2932-C4 *Coating UV protection brown -C4 - Example PSN07/SJC2932/SJS2932-C4*

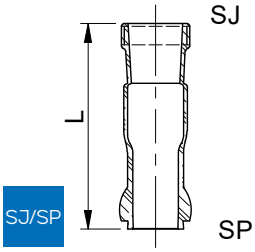
SJ



- Zur Verbindung von weiteren Bauteilen mit Gefäßen oder Hauben mit schrägem Stutzen
- Vergrößerung des horizontalen Abstand, um größere Bauteile montieren zu können
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting additional components to vessels or hoods with angled nozzles*
- *Increase of the horizontal distance to be able to mount larger components*
- *High wall thickness for long service life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0.5 barg*
- *Material in contact with product: borosilicate glass 3.3*

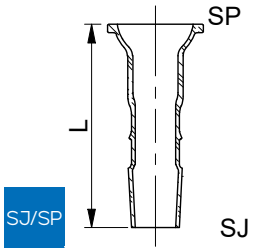


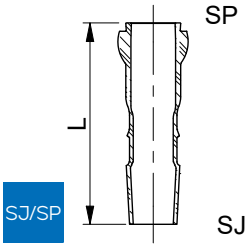


Adapter, symmetrisch, SJ, SP

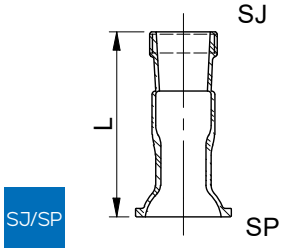
Adapter, symmetrical, SJ, SP

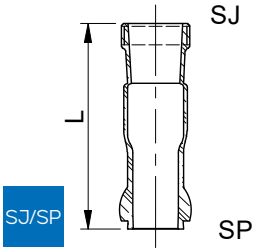
	SJ	SP	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/SP-System	14/23	19/09	80	PASJS1423/ SPC1909	PASJS1423/ SPB1909		
			100			PASJC1423/ SPC1909	PASJC1423/ SPB1909
	14/23	29/13	80	PASJS1423/ SPC2913	PASJS1423/ SPB2913		
			110			PASJC1423/ SPC2913	PASJC1423/ SPB2913
	14/23	35/19	80	PASJS1423/ SPC3519			
			90		PASJS1423/ SPB3519		
			110			PASJC1423/ SPC3519	PASJC1423/ SPB3519
	14/23	41/24	90	PASJS1423/ SPC4124	PASJS1423/ SPB4124		
			110			PASJC1423/ SPC4124	
			120				PASJC1423/ SPB4124
	19/26	19/09	80	PASJS1926/ SPC1909	PASJS1926/ SPB1909		
			110			PASJC1926/ SPC1909	PASJC1926/ SPB1909
	19/26	29/13	90	PASJS1926/ SPC2913	PASJS1926/ SPB2913		
			110			PASJC1926/ SPC2913	
			120				PASJC1926/ SPB2913
	19/26	35/19	90	PASJS1926/ SPC3519			
			100		PASJS1926/ SPB3519		
			120			PASJC1926/ SPC3519	PASJC1926/ SPB3519
	19/26	41/24	100	PASJS1926/ SPC4124	PASJS1926/ SPB4124		
			120			PASJC1926/ SPC4124	
			130				PASJC1926/ SPB4124





	SJ	SP	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/SP-System	24/29	19/09	90	PASJS2429/ SPC1909	PASJS2429/ SPB1909		
			110			PASJC2429/ SPC1909	PASJC2429/ SPB1909
	24/29	29/13	100	PASJS2429/ SPC2913	PASJS2429/ SPB2913		
			120			PASJC2429/ SPC2913	PASJC2429/ SPB2913
	24/29	35/19	100	PASJS2429/ SPC3519			
			110		PASJS2429/ SPB3519		
			120			PASJC2429/ SPC3519	PASJC2429/ SPB3519
	24/29	41/24	110	PASJS2429/ SPC4124	PASJS2429/ SPB4124		
			120			PASJC2429/ SPC4124	
			130				PASJC2429/ SPB4124
	29/32	29/13	100	PASJS2932/ SPC2913	PASJS2932/ SPB2913		
			120			PASJC2932/ SPC2913	PASJC2932/ SPB2913
	29/32	35/19	100	PASJS2932/ SPC3519			
			110		PASJS2932/ SPB3519		
			120			PASJC2932/ SPC3519	
			130				PASJC2932/ SPB3519
	29/32	41/24	110	PASJS2932/ SPC4124	PASJS2932/ SPB4124		
			130			PASJC2932/ SPC4124	PASJC2932/ SPB4124
	29/32	64/41	120	PASJS2932/ SPC6441			
			130		PASJS2932/ SPB6441		

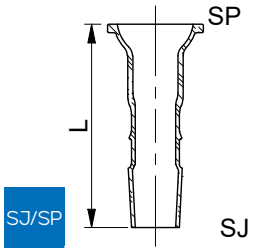


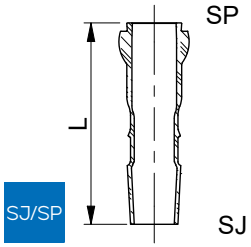


Adapter, symmetrisch, SJ, SP

Adapter, symmetrical, SJ, SP

	SJ	SP	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/SP-System	29/32	64/41	140			PASJC2932/ SPC6441	
			150				PASJC2932/ SPB6441
	34/35	29/13	100	PASJS3435/ SPC2913	PASJS3435/ SPB2913		
			120			PASJC3435/ SPC2913	PASJC3435/ SPB2913
	34/35	35/19	100	PASJS3435/ SPC3519			
			110		PASJS3435/ SPB3519		
			120			PASJC3435/ SPC3519	
			130				PASJC3435/ SPB3519
	34/35	41/24	110	PASJS3435/ SPC4124	PASJS3435/ SPB4124		
						PASJC3435/ SPC4124	PASJC3435/ SPB4124
	34/35	64/41	120	PASJS3435/ SPC6441			
			130		PASJS3435/ SPB6441		
			140			PASJC3435/ SPC6441	
			150				PASJC3435/ SPB6441
	45/40	35/19	110	PASJS4540/ SPC3519			
			120		PASJS4540/ SPB3519		
			140			PASJC4540/ SPC3519	
			150				PASJC4540/ SPB3519
	45/40	41/24	120	PASJS4540/ SPC4124	PASJS4540/ SPB4124		
			140			PASJC4540/ SPC4124	PASJC4540/ SPB4124



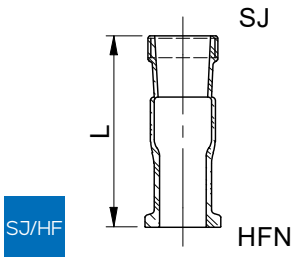


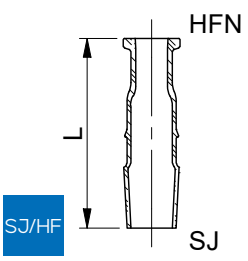
	SJ	SP	L [mm]	Art.-No. Hülse-Schale *sleeve-cup*	Art.-No. Hülse-Kugel *sleeve-ball*	Art.-No. Kern-Schale *cone-cup*	Art.-No. Kern-Kugel *cone-ball*
SJ/SP-System	45/40	64/41	130	PASJS4540/ SPC6441			
			140		PASJS4540/ SPB6441		
			150			PASJC4540/ SPC6441	
			160				PASJC4540/ SPB6441
	45/40	90/70	130	PASJS4540/ SPC9070			
			140		PASJS4540/ SPB9070		
			150			PASJC4540/ SPC9070	
			160				PASJC4540/ SPB9070

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PASJS2932/SPC2913-C3 *Coating dissipative -C3 - Example PASJS2932/SPC2913-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASJS2932/SPC2913-C4 *Coating UV protection brown -C4 - Example PASJS2932/SPC2913-C4*

- Zur Verbindung unterschiedlicher SJ-Anschlüsse mit SP-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SJ-connections with SP-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, symmetrisch, SJ, HF

Adapter, symmetrical, SJ, HF

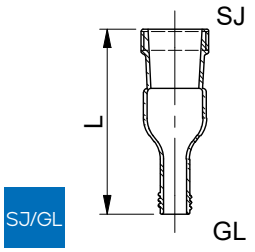
	HF	SJ	L [mm]	Art.-No. Flansch-Hülse *flange-sleeve*	Art.-No. Flansch-Kern *flange-cone*
HF/SJ-System	HF16	14/23	80	PAHFN16/SJS1423	
			100		PAHFN16/SJC1423
	HF16	19/26	80	PAHFN16/SJS1926	
			100		PAHFN16/SJC1926
	HF16	24/29	90	PAHFN16/SJS2429	
			110		PAHFN16/SJC2429
	HF16	29/32	90	PAHFN16/SJS2932	
			110		PAHFN16/SJC2932
	HF16	34/35	100	PAHFN16/SJS3435	
			120		PAHFN16/SJC3435
	HF16	45/40	80	PAHFN16/SJS4540	
			100		PAHFN16/SJC4540
	HF25	14/23	80	PAHFN25/SJS1423	
			100		PAHFN25/SJC1423
	HF25	19/26	80	PAHFN25/SJS1926	
			100		PAHFN25/SJC1926
	HF25	24/29	90	PAHFN25/SJS2429	
			110		PAHFN25/SJC2429
	HF25	29/32	90	PAHFN25/SJS2932	
			110		PAHFN25/SJC2932
	HF25	34/35	100	PAHFN25/SJS3435	
			120		PAHFN25/SJC3435
	HF25	45/40	80	PAHFN25/SJS4540	
			100		PAHFN25/SJC4540
	HF40	14/23	80	PAHFN40/SJS1423	
			110		PAHFN40/SJC1423
	HF40	19/26	90	PAHFN40/SJS1926	
			110		PAHFN40/SJC1926
	HF40	24/29	100	PAHFN40/SJS2429	
			120		PAHFN40/SJC2429
	HF40	29/32	100	PAHFN40/SJS2932	
			120		PAHFN40/SJC2932
	HF40	34/35	100	PAHFN40/SJS3435	
			130		PAHFN40/SJC3435
	HF40	45/40	110	PAHFN40/SJS4540	
			130		PAHFN40/SJC4540

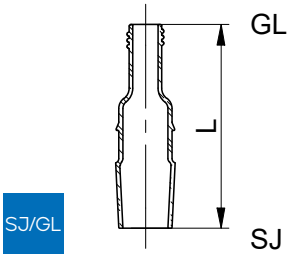
	HF	SJ	L [mm]	Art.-No. Flansch-Hülse *flange-sleeve*	Art.-No. Flansch-Kern *flange-cone*
HF/SJ-System	HF50	14/23	80	PAHFN50/SJS1423	
			110		PAHFN50/SJC1423
	HF50	19/26	90	PAHFN50/SJS1926	
			110		PAHFN50/SJC1926
	HF50	24/29	100	PAHFN50/SJS2429	
			120		PAHFN50/SJC2429
	HF50	29/32	100	PAHFN50/SJS2932	
			120		PAHFN50/SJC2932
	HF50	34/35	100	PAHFN50/SJS3435	
			130		PAHFN50/SJC3435
	HF50	45/40	110	PAHFN50/SJS4540	
			130		PAHFN50/SJC4540

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PAHFN16/SJS2932-C3 *Coating dissipative -C3 - Example PAHFN16/SJS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAHFN16/SJS2932-C4 *Coating UV protection brown -C4 - Example PAHFN16/SJS2932-C4*

- Zur Verbindung unterschiedlicher SJ-Anschlüsse mit HF-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SJ-connections with HF-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, symmetrisch, SJ, GL

Adapter, symmetrical, SJ, GL

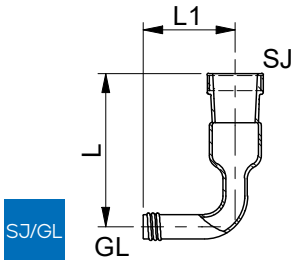
	SJ	GL	L [mm]	Art.-No. Hülse-GL *sleeve-GL*	Art.-No. Kern-GL *cone-GL*
SJ/GL-System	14/23	GL18	80	PASJS1423/GL18	
			100		PASJC1423/GL18
	19/26	GL18	80	PASJS1926/GL18	
			100		PASJC1926/GL18
	24/29	GL18	100	PASJS2429/GL18	
			110		PASJC2429/GL18
	29/32	GL18	100	PASJS2932/GL18	
			120		PASJC2932/GL18
	34/35	GL18	100	PASJS3435/GL18	
			115		PASJC3435/GL18
	45/40	GL18	110	PASJS4540/GL18	
			130		PASJC4540/GL18
	14/23	GL25	80	PASJS1423/GL25	
			110		PASJC1423/GL25
	19/26	GL25	90	PASJS1926/GL25	
			120		PASJC1926/GL25
	24/29	GL25	100	PASJS2429/GL25	
			120		PASJC2429/GL25
	29/32	GL25	100	PASJS2932/GL25	
			120		PASJC2932/GL25
	34/35	GL25	100	PASJS3435/GL25	
			120		PASJC3435/GL25
	45/40	GL25	110	PASJS4540/GL25	
			130		PASJC4540/GL25
	14/23	GL32	90	PASJS1423/GL32	
			110		PASJC1423/GL32
	19/26	GL32	100	PASJS1926/GL32	
			120		PASJC1926/GL32
	24/29	GL32	110	PASJS2429/GL32	
			120		PASJC2429/GL32
	29/32	GL32	110	PASJS2932/GL32	
			130		PASJC2932/GL32
	34/35	GL32	110	PASJS3435/GL32	
			130		PASJC3435/GL32
	45/40	GL32	120	PASJS4540/GL32	
			140		PASJC4540/GL32

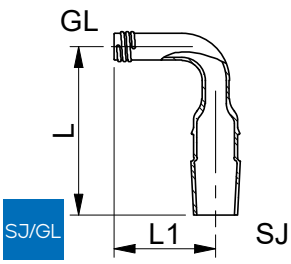
	SJ	GL	L [mm]	Art.-No. Hülse-GL *sleeve-GL*	Art.-No. Kern-GL *cone-GL*
SJ/GL-System	14/23	GL45	90	PASJS1423/GL45	
			120		PASJC1423/GL45
	19/26	GL45	100	PASJS1926/GL45	
			130		PASJC1926/GL45
	24/29	GL45	110	PASJS2429/GL45	
			130		PASJC2429/GL45
	29/32	GL45	110	PASJS2932/GL45	
			130		PASJC2932/GL45
	34/35	GL45	110	PASJS3435/GL45	
			130		PASJC3435/GL45
	45/40	GL45	120	PASJS4540/GL45	
			140		PASJC4540/GL45

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PASJS2932/GL18-C3 *Coating dissipative -C3 - Example PASJS2932/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASJS2932/GL18-C4 *Coating UV protection brown -C4 - Example PASJS2932/GL18-C4*

- Zur Verbindung unterschiedlicher SJ-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SJ-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, 90°, symmetrisch, SJ, GL

Adapter, 90°, symmetrical, SJ, GL

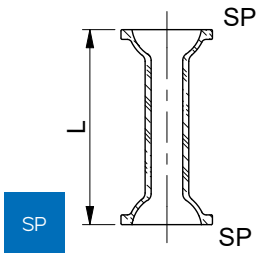
	SJ	GL	L [mm]	L1 [mm]	Art.-No. Hülse-GL sleeve-GL	Art.-No. Kern-GL cone-GL
SJ/GL-System	14/23	GL18	80	60	PA90/SJS1423/GL18	PA90/SJC1423/GL18
	19/26	GL18	90	60	PA90/SJS1926/GL18	PA90/SJC1926/GL18
	24/29	GL18	90	60	PA90/SJS2429/GL18	PA90/SJC2429/GL18
	29/32	GL18	100	60	PA90/SJS2932/GL18	PA90/SJC2932/GL18
	34/35	GL18	100	60	PA90/SJS3435/GL18	PA90/SJC3435/GL18
	45/40	GL18	110	80	PA90/SJS4540/GL18	PA90/SJC4540/GL18
	14/23	GL25	100	60	PA90/SJS1423/GL25	PA90/SJC1423/GL25
	19/26	GL25	100	60	PA90/SJS1926/GL25	PA90/SJC1926/GL25
	24/29	GL25	110	60	PA90/SJS2429/GL25	PA90/SJC2429/GL25
	29/32	GL25	110	60	PA90/SJS2932/GL25	PA90/SJC2932/GL25
	34/35	GL25	110	80	PA90/SJS3435/GL25	PA90/SJC3435/GL25
	45/40	GL25	110	80	PA90/SJS4540/GL25	PA90/SJC4540/GL25
	14/23	GL32	120	80	PA90/SJS1423/GL32	PA90/SJC1423/GL32
	19/26	GL32	100	80	PA90/SJS1926/GL32	PA90/SJC1926/GL32
	24/29	GL32	110	80	PA90/SJS2429/GL32	PA90/SJC2429/GL32
	29/32	GL32	110	80	PA90/SJS2932/GL32	PA90/SJC2932/GL32
	34/35	GL32	110	80	PA90/SJS3435/GL32	PA90/SJC3435/GL32
	45/40	GL32	120	80	PA90/SJS4540/GL32	PA90/SJC4540/GL32
	14/23	GL45	110	100	PA90/SJS1423/GL45	PA90/SJC1423/GL45
	19/26	GL45	110	100	PA90/SJS1926/GL45	PA90/SJC1926/GL45
	24/29	GL45	110	100	PA90/SJS2429/GL45	PA90/SJC2429/GL45

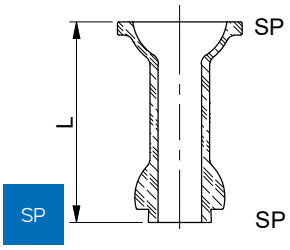
	SJ	GL	L [mm]	L1 [mm]	Art.-No. Hülse-GL sleeve-GL	Art.-No. Kern-GL cone-GL
SJ/GL-System	29/32	GL45	110	100	PA90/SJS2932/ GL45	PA90/SJC2932/ GL45
	34/35	GL45	120	100	PA90/SJS3435/ GL45	PA90/SJC3435/ GL45
	45/40	GL45	130	100	PA90/SJS4540/ GL45	PA90/SJC4540/ GL45

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PASJS2932/GL18-C3 *Coating dissipative -C3 - Example PASJS2932/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASJS2932/GL18-C4 *Coating UV protection brown -C4 - Example PASJS2932/GL18-C4*

- Zur Verbindung unterschiedlicher SJ-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SJ-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

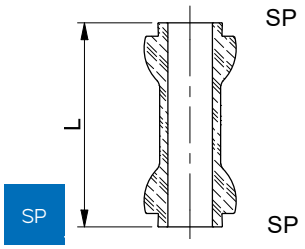




Adapter, symmetrisch, SP, SP

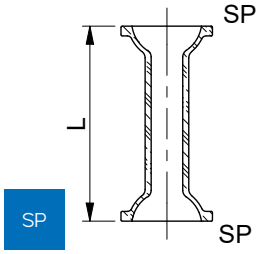
Adapter, symmetrical, SP, SP

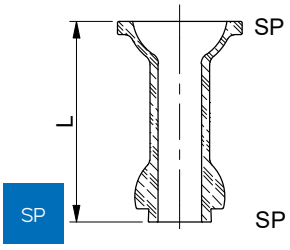
	SP	SP	L [mm]	Art.-No. Schale-Schale *cup-cup*	Art.-No. Schale-Kugel *cup-ball*	Art.-No. Kugel-Schale *ball -cup*	Art.-No. Kugel-Kugel *ball-ball*
SP-System	19/09	19/09	60	PASPC1909/ SPC1909	PASPC1909/ SPB1909	PASPB1909/ SPC1909	PASPB1909/ SPB1909
	19/09	29/13	80	PASPC1909/ SPC2913	PASPC1909/ SPB2913	PASPB1909/ SPC2913	PASPB1909/ SPB2913
	19/09	35/19	80	PASPC1909/ SPC3519	PASPC1909/ SPB3519	PASPB1909/ SPC3519	PASPB1909/ SPB3519
	19/09	41/24	80	PASPC1909/ SPC4124	PASPC1909/ SPB4124	PASPB1909/ SPC4124	PASPB1909/ SPB4124
	19/09	64/41	90	PASPC1909/ SPC6441		PASPB1909/ SPC6441	
			100		PASPC1909/ SPB6441		PASPB1909/ SPB6441
	19/09	90/70	90	PASPC1909/ SPC9070		PASPB1909/ SPC9070	
			100		PASPC1909/ SPB9070		PASPB1909/ SPB9070
	29/13	29/13	80	PASPC2913/ SPC2913	PASPC2913/ SPB2913	PASPB2913/ SPC2913	PASPB2913/ SPB2913
	29/13	35/19	80	PASPC2913/ SPC3519	PASPC2913/ SPB3519	PASPB2913/ SPC3519	
			90				PASPB2913/ SPB3519
	29/13	41/24	80	PASPC2913/ SPC4124			
			90		PASPC2913/ SPB4124	PASPB2913/ SPC4124	PASPB2913/ SPB4124
	29/13	64/41	100	PASPC2913/ SPC6441	PASPC2913/ SPB6441	PASPB2913/ SPC6441	
			110				PASPB2913/ SPB6441
	29/13	90/70	100	PASPC2913/ SPC9070		PASPB2913/ SPC9070	
			110		PASPC2913/ SPB9070		PASPB2913/ SPB9070
	35/19	35/19	80	PASPC3519/ SPC3519			
			90		PASPC3519/ SPB3519	PASPB3519/ SPC3519	PASPB3519/ SPB3519
	35/19	41/24	90	PASPC3519/ SPC4124	PASPC3519/ SPB4124	PASPB3519/ SPC4124	
			100				PASPB3519/ SPB4124



	SP	SP	L [mm]	Art.-No. Schale-Schale *cup-cup*	Art.-No. Schale-Kugel *cup-ball*	Art.-No. Kugel-Schale *ball -cup*	Art.-No. Kugel-Kugel *ball-ball*
SP-System	35/19	64/41	100	PASPC3519/ SPC6441			
			110		PASPC3519/ SPB6441	PASPB3519/ SPC6441	PASPB3519/ SPB6441
	35/19	90/70	100	PASPC3519/ SPC9070			
			110		PASPC3519/ SPB9070	PASPB3519/ SPC9070	
			120				PASPB3519/ SPB9070
	41/24	41/24	110	PASPC4124/ SPC4124	PASPC4124/ SPB4124		
			120				PASPB4124/ SPB4124
	41/24	64/41	110	PASPC4124/ SPC6441	PASPC4124/ SPB6441		
			120			PASPB4124/ SPC6441	PASPB4124/ SPB6441
	41/24	90/70	110	PASPC4124/ SPC9070		PASPB4124/ SPC9070	
			120		PASPC4124/ SPB9070		PASPB4124/ SPB9070
	64/41	64/41	120	PASPC6441/ SPC6441			
			130		PASPC6441/ SPB6441		PASPB6441/ SPB6441
	64/41	90/70	120	PASPC6441/ SPC9070			
			130		PASPC6441/ SPB9070	PASPB6441/ SPC9070	
			140				PASPB6441/ SPB9070
	90/70	90/70	120	PASPC9070/ SPC9070			
			130		PASPC9070/ SPB9070	PASPB9070/ SPC9070	
			140				PASPB9070/ SPB9070

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASPC2913/SPC2913-C3 *Coating dissipative -C3 - Example PASPC2913/SPC2913-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASPC2913/SPC2913-C4 *Coating UV protection brown -C4 - Example PASPC2913/SPC2913-C4*



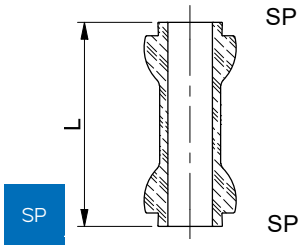


Adapter, symmetrisch, SP, SP

- Zur Verbindung unterschiedlicher SP-Größen und Kugel/Schale
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

Adapter, symmetrical, SP, SP

- *For connecting different SP sizes and ball/cup*
- *High wall thicknesses for long life and pressure stability*
- *Compatible with SJ joints*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*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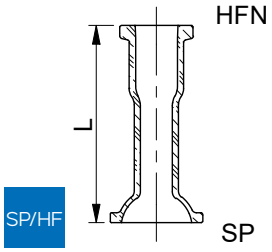
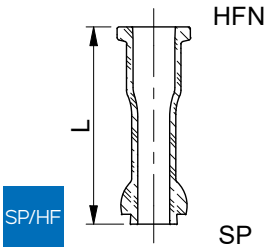




Adapter, symmetrisch, SP, HF

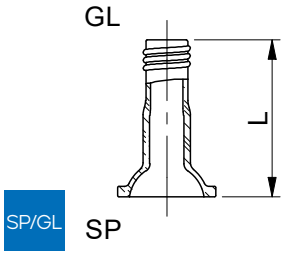
Adapter, symmetrical, SP, HF

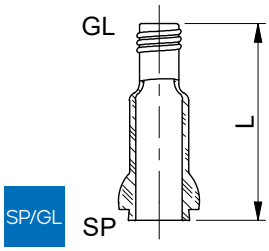
	HF	SP	L [mm]	Art.-No. Flansch-Schale *flange-cup*	Art.-No. Flansch-Kugel *flange-ball*
HF/SP-System	HF16	19/09	60	PAHFN16/SPC1909	PAHFN16/SPB1909
	HF16	29/13	80	PAHFN16/SPC2913	PAHFN16/SPB2913
	HF16	35/19	80	PAHFN16/SPC3519	PAHFN16/SPB3519
	HF16	41/24	80	PAHFN16/SPC4124	PAHFN16/SPB4124
	HF25	19/09	60	PAHFN25/SPC1909	PAHFN25/SPB1909
	HF25	29/13	80	PAHFN25/SPC2913	PAHFN25/SPB2913
	HF25	35/19	80	PAHFN25/SPC3519	PAHFN25/SPB3519
	HF25	41/24	80	PAHFN25/SPC4124	PAHFN25/SPB4124
	HF40	35/19	90	PAHFN40/SPC3519	PAHFN40/SPB3519
	HF40	41/24	90	PAHFN40/SPC4124	PAHFN40/SPB4124
	HF40	64/41	110	PAHFN40/SPC6441	PAHFN40/SPB6441
	HF40	90/70	120	PAHFN40/SPC9070	PAHFN40/SPB9070
	HF50	35/19	90	PAHFN50/SPC3519	PAHFN50/SPB3519
	HF50	41/24	90	PAHFN50/SPC4124	PAHFN50/SPB4124
	HF50	64/41	110	PAHFN50/SPC6441	PAHFN50/SPB6441
	HF50	90/70	120	PAHFN50/SPC9070	PAHFN50/SPB9070

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PAHFN25/SPC2913-C3 *Coating dissipative -C3 - Example PAHFN25/SPC2913-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAHFN25/SPC2913-C4 *Coating UV protection brown -C4 - Example PPAHFN25/SPC2913-C4*

- Zur Verbindung unterschiedlicher SP-Anschlüsse mit HF-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SP-connections with HF-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, symmetrisch, SP, GL

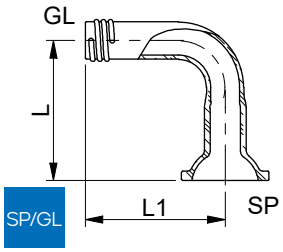
Adapter, symmetrical, RS, GL

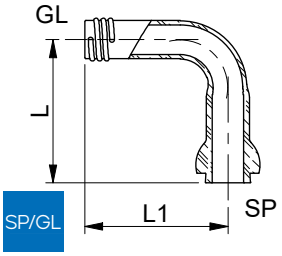
	SP	GL	L [mm]	Art.-No. Schale-GL *cup-GL*	Art.-No. Kugel-GL *ball-GL*
SP/GL-System	19/09	GL18	80	PASPC1909/GL18	PASPB1909/GL18
	29/13	GL18	80	PASPC2913/GL18	PASPB2913/GL18
	35/19	GL18	80	PASPC3519/GL18	PASPB3519/GL18
	41/24	GL18	90	PASPC4124/GL18	PASPB4124/GL18
	19/09	GL25	80	PASPC1909/GL25	PASPB1909/GL25
	29/13	GL25	80	PASPC2913/GL25	PASPB2913/GL25
	35/19	GL25	90	PASPC3519/GL25	PASPB3519/GL25
	41/24	GL25	90	PASPC4124/GL25	PASPB4124/GL25
	64/41	GL25	110	PASPC6441/GL25	PASPB6441/GL25
	19/09	GL32	80	PASPC1909/GL32	PASPB1909/GL32
	29/13	GL32	90	PASPC2913/GL32	PASPB2913/GL32
	35/19	GL32	90	PASPC3519/GL32	PASPB3519/GL32
	41/24	GL32	100	PASPC4124/GL32	PASPB4124/GL32
	64/41	GL32	110	PASPC6441/GL32	PASPB6441/GL32
	90/70	GL32	120	PASPC9070/GL32	PASPB9070/GL32
	19/09	GL45	80	PASPC1909/GL45	PASPB1909/GL45
	29/13	GL45	90	PASPC2913/GL45	PASPB2913/GL45
	35/19	GL45	90	PASPC3519/GL45	PASPB3519/GL45
	41/24	GL45	100	PASPC4124/GL45	PASPB4124/GL45
	64/41	GL45	110	PASPC6441/GL45	PASPB6441/GL45
	90/70	GL45	120	PASPC9070/GL45	PASPB9070/GL45

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PASPC2913/GL18-C3 *Coating dissipative -C3 - Example PASPC2913/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PASPC2913/GL18-C4 *Coating UV protection brown -C4 - Example PASPC2913/GL18-C4*

- Zur Verbindung unterschiedlicher SP-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SP-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Adapter, 90°, symmetrisch, SP, GL

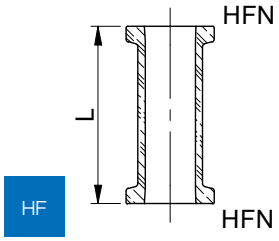
Adapter, 90°, symmetrical, SP, GL

	SP	GL	L [mm]	L1 [mm]	Art.-No. Schale-GL *cup-GL*	Art.-No. Kugel-GL *ball-GL*
SP/GL-System	19/09	GL18	60	60	PA90/SPC1909/GL18	PA90/SPB1909/GL18
	29/13	GL18	60	60	PA90/SPC2913/GL18	PA90/SPB2913/GL18
	35/19	GL18	60	60	PA90/SPC3519/GL18	PA90/SPB3519/GL18
	41/24	GL18	60	60	PA90/SPC4124/GL18	PA90/SPB4124/GL18
	19/09	GL25	80	60	PA90/SPC1909/GL25	PA90/SPB1909/GL25
	29/13	GL25	80	60	PA90/SPC2913/GL25	PA90/SPB2913/GL25
	35/19	GL25	80	60	PA90/SPC3519/GL25	PA90/SPB3519/GL25
	41/24	GL25	90	60	PA90/SPC4124/GL25	PA90/SPB4124/GL25
	64/41	GL25	100	80	PA90/SPC6441/GL25	PA90/SPB6441/GL25
	19/09	GL32	80	80	PA90/SPC1909/GL32	PA90/SPB1909/GL32
	29/13	GL32	80	80	PA90/SPC2913/GL32	PA90/SPB2913/GL32
	35/19	GL32	80	80	PA90/SPC3519/GL32	PA90/SPB3519/GL32
	41/24	GL32	100	80	PA90/SPC4124/GL32	PA90/SPB4124/GL32
	64/41	GL32	120	80	PA90/SPC6441/GL32	PA90/SPB6441/GL32
	90/70	GL32	130	80	PA90/SPC9070/GL32	PA90/SPB9070/GL32
	19/09	GL45	90	100	PA90/SPC1909/GL45	PA90/SPB1909/GL45
	29/13	GL45	90	100	PA90/SPC2913/GL45	PA90/SPB2913/GL45
	35/19	GL45	100	100	PA90/SPC3519/GL45	PA90/SPB3519/GL45
	41/24	GL45	110	100	PA90/SPC4124/GL45	PA90/SPB4124/GL45
	64/41	GL45	130	100	PA90/SPC6441/GL45	PA90/SPB6441/GL45
	90/70	GL45	140	100	PA90/SPC9070/GL45	PA90/SPB9070/GL45

- Zur Verbindung unterschiedlicher SP-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different SP-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA90/SPC2913/GL18-C3 *Coating dissipative -C3 - Example PA90/SPC2913/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/SPC2913/GL18-C4 *Coating UV protection brown -C4 - Example PA90/SPC2913/GL18-C4*



HF

Adapter, symmetrisch, HF, HF

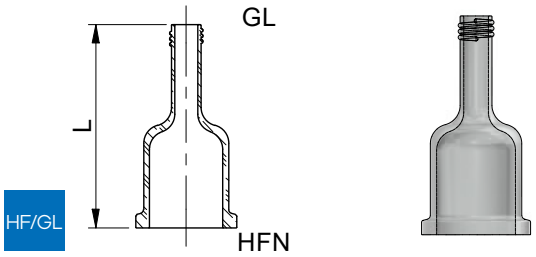
Adapter, symmetrical, HF, HF

	HF	HF	L [mm]	Art.-No. Flansch-Flansch *flange-flange*
HF-System	HF16	HF16	80	PAHFN16/HFN16
	HF16	HF25	80	PAHFN16/HFN25
	HF16	HF40	80	PAHFN16/HFN40
	HF16	HF50	80	PAHFN16/HFN50
	HF25	HF25	80	PAHFN25/HFN25
	HF25	HF40	80	PAHFN25/HFN40
	HF25	HF50	100	PAHFN25/HFN50
	HF40	HF40	100	PAHFN40/HFN40
	HF40	HF50	100	PAHFN40/HFN50
	HF50	HF50	100	PAHFN50/HFN50

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PAHFN25/HFN25-C3 *Coating dissipative -C3 - Example PAHFN25/HFN25-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAHFN25/HFN25-C4 *Coating UV protection brown -C4 - Example PAHFN25/HFN25-C4*

- Zur Verbindung unterschiedlicher HF-Größen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different HF sizes - High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



Adapter, symmetrisch, HF, GL

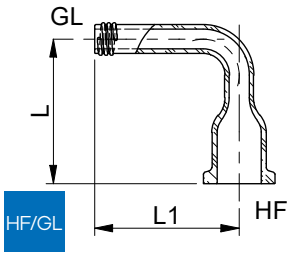
Adapter, symmetrical, HF, GL

	HF	H	L [mm]	Art.-No. Flansch-Flansch *flange-flange*
HF/GL-System	HF16	GL18	80	PAHFN16/GL18
	HF16	GL25	80	PAHFN16/GL25
	HF16	GL32	80	PAHFN16/GL32
	HF16	GL45	80	PAHFN16/GL45
	HF25	GL18	80	PAHFN25/GL18
	HF25	GL25	80	PAHFN25/GL25
	HF25	GL32	80	PAHFN25/GL32
	HF25	GL45	80	PAHFN25/GL45
	HF40	GL18	80	PAHFN40/GL18
	HF40	GL25	80	PAHFN40/GL25
	HF40	GL32	90	PAHFN40/GL32
	HF40	GL45	90	PAHFN40/GL45
	HF50	GL18	80	PAHFN50/GL18
	HF50	GL25	80	PAHFN50/GL25
	HF50	GL32	90	PAHFN50/GL32
	HF50	GL45	90	PAHFN50/GL45

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PAHFN16/GL18-C3 *Coating dissipative -C3 - Example PAHFN16/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAHFN16/GL18-C4 *Coating UV protection brown -C4 - Example PAHFN16/GL18-C4*

- Zur Verbindung unterschiedlicher HF-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3
- Material produktberührend mit VH: Borosilikatglas 3.3/PTFE

- *For connecting different HF-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*
- *Material product contacting with VH: borosilicate glass 3.3/PTFE*



Adapter, 90°, symmetrisch, HF, GL

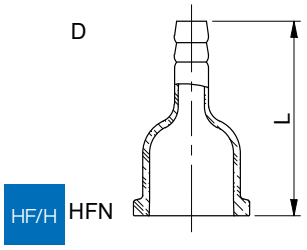
Adapter, 90°, symmetrical, HF, GL

	HF	GL	L [mm]	L1 [mm]	Art.-No. Flansch-Flansch *flange-flange*
HF/GL-System	HF16	GL18	60	60	PA90/HFN16/GL18
	HF16	GL25	80	60	PA90/HFN16/GL25
	HF16	GL32	80	80	PA90/HFN16/GL32
	HF16	GL45	100	100	PA90/HFN16/GL45
	HF25	GL18	60	60	PA90/HFN25/GL18
	HF25	GL25	80	60	PA90/HFN25/GL25
	HF25	GL32	80	80	PA90/HFN25/GL32
	HF25	GL45	100	100	PA90/HFN25/GL45
	HF40	GL18	80	60	PA90/HFN40/GL18
	HF40	GL25	90	80	PA90/HFN40/GL25
	HF40	GL32	100	80	PA90/HFN40/GL32
	HF40	GL45	110	100	PA90/HFN40/GL45
	HF50	GL18	80	80	PA90/HFN50/GL18
	HF50	GL25	100	80	PA90/HFN50/GL25
	HF50	GL32	100	100	PA90/HFN50/GL32
	HF50	GL45	120	100	PA90/HFN50/GL45

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PA90/HFN16/GL18-C3 *Coating dissipative -C3 - Example PA90/HFN16/GL18-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PA90/HFN16/GL18-C4 *Coating UV protection brown -C4 - Example PA90/HFN16/GL18-C4*

- Zur Verbindung unterschiedlicher HF-Anschlüsse mit GL-Anschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3
- Material produktberührend mit VH: Borosilikatglas 3.3/PTFE

- *For connecting different HF-connections with GL-connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*
- *Material product contacting with VH: borosilicate glass 3.3/PTFE*



Adapter, symmetrisch, HF, H

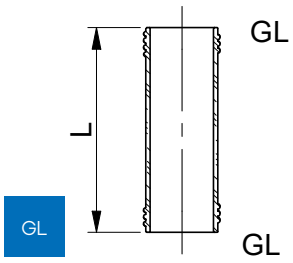
Adapter, symmetrical, HF, H

	HF	GL	L [mm]	Art.-No. Flansch-Flansch *flange-flange*
HF/H-System	HF16	H09	60	PAHFN16/H09
	HF16	H11	60	PAHFN16/H11
	HF16	H13	80	PAHFN16/H13
	HF25	H09	60	PAHFN25/H09
	HF25	H11	60	PAHFN25/H11
	HF25	H13	80	PAHFN25/H13

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PAHFN16/H11-C3 *Coating dissipative -C3 - Example PAHFN16/H11-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAHFN16/H11-C4 *Coating UV protection brown -C4 - Example PAHFN16/H11-C4*

- Zur Verbindung unterschiedlicher HF-Anschlüsse mit Schlauchanschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3
- Material produktberührend mit VH: Borosilikatglas 3.3/PTFE

- *For connecting different HF-connections with hose connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*
- *Material product contacting with VH: borosilicate glass 3.3/PTFE*



Adapter, symmetrisch, GL, GL

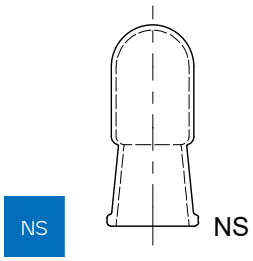
Adapter, symmetrical, GL, GL

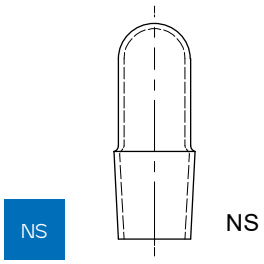
	GL	GL	L [mm]	Art.-No. Flansch-Flansch *flange-flange*
GL-System	GL18	GL18	80	PAGL18/GL18
	GL18	GL25	80	PAGL18/GL25
	GL18	GL32	80	PAGL18/GL32
	GL18	GL45	90	PAGL18/GL45
	GL25	GL25	80	PAGL25/GL25
	GL25	GL32	90	PAGL25/GL32
	GL25	GL45	90	PAGL25/GL45
	GL32	GL32	90	PAGL32/GL32
	GL32	GL45	100	PAGL32/GL45
	GL45	GL45	100	PAGL45/GL45

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PAGL18/GL25-C3 *Coating dissipative -C3 - Example PAGL18/GL25-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PAGL18/GL25-C4 *Coating UV protection brown -C4 - Example PAGL18/GL25-C4*

- Zur Verbindung unterschiedlicher GL-Größen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For connecting different GL sizes*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Blindkappe, NS

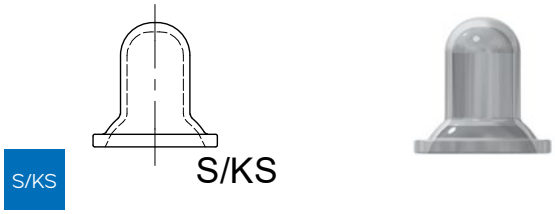
Cap, NS

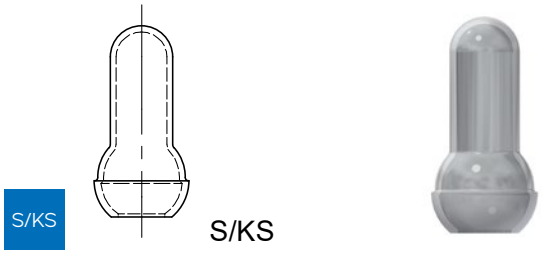
	NS	L [mm]	Art.-No. Hülse *sleeve*	Art.-No. Kern *cone*
NS-System	10/30		PCNSS1030	PCNSC1030
	14/23		PCNSS1423	PCNSC1423
	14/35		PCNSS1435	PCNSC1435
	19/26		PCNSS1926	PCNSC1926
	24/40		PCNSS2440	PCNSC2440
	29/32		PCNSS2932	PCNSC2932
	29/42		PCNSS2942	PCNSC2942
	45/40		PCNSS4540	PCNSC4540
	45/50		PCNSS4550	PCNSC4550

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PCNSS2932-C3 *Coating dissipative -C3 - Example PCNSS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PCNSS2932-C4 Coating UV protection brown -C4 - Example PCNSS2932-C4

- Zum Verschließen von Reserveanschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Kompatibel mit SJ-Verbindungen
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For closing reserve connections*
- *High wall thicknesses for long life and pressure stability*
- *Compatible with SJ joints*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Blindkappe, S/KS

Cap, S/KS

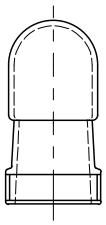
	S / KS	L [mm]	Art.-No. Schale *cup*	Art.-No. Kugel *ball*
S-System	19/09	Zoll	PCSC1909	PCSB1909
	29/15	Zoll	PCSC2915	PCSB2915
	35/24	Zoll	PCSC3524	PCSB3524
	38/25	Zoll	PCSC3824	PCSB3824
	51/30	Zoll	PCSC5130	PCSB5130
KS-System	18/09	mm	PCKSC1809	PCKSB1809
	28/15	mm	PCKSC2815	PCKSB2815
	35/25	mm	PCKSC3525	PCKSB3525
	50/30	mm	PCKSC5030	PCKSB5030

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PCSC2915-C3 *Coating dissipative -C3 - Example PCSC2915-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PCSC2915-C4 *Coating UV protection brown -C4 - Example PCSC2915-C4*

- Zum Verschließen von Reserveanschlüssen - Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

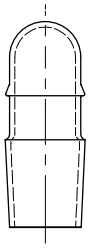
- *For closing reserve connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*

SJ



SJ

SJ



SJ

Blindkappe, SJ

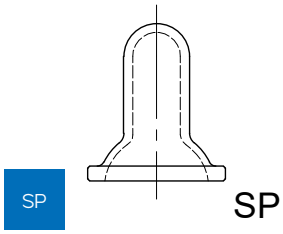
Cap, SJ

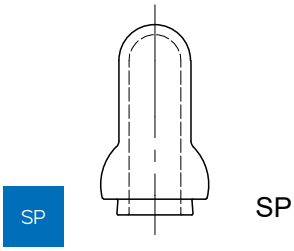
	SJ	L [mm]	Art.-No. Hülse *sleeve*	Art.-No. Kern *cone*
SJ-System	14/23		PCSJS1423	PCSJC1423
	19/26		PCSJS1926	PCSJC1926
	24/29		PCSJS2440	PCSJC2440
	29/32		PCSJS2932	PCSJC2932
	34/35		PCSJS3435	PCSJC3435
	45/40		PCSJS4540	PCSJC4540

Optionen *Options*	
	Beschichtung ableitfähig -C3 - Beispiel PCSJS2932-C3 *Coating dissipative -C3 - Example PCSJS2932-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PCSJS2932-C4 *Coating UV protection brown -C4 - Example PCSJS2932-C4*

- Zum Verschließen von Reserveanschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Kompatibel mit NS-Verbindungen
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For closing reserve connections*
- *High wall thicknesses for long life and pressure stability*
- *Compatible with NS joints*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*





Blindkappe, SP

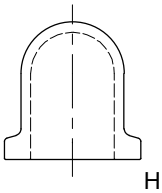
Cap, SP

	SP	Art.-No. Schale *cup*	Art.-No. Kugel *ball*
SP-System	19/09	PCSPC1909	PCSPB1909
	29/13	PCSPC2913	PCSPB2913
	35/19	PCSPC3519	PCSPB3519
	41/24	PCSPC4124	PCSPB4124
	64/41	PCSPC6441	PCSPB6441
	90/70	PCSPC9070	PCSPB9070

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PCSPC2913-C3 *Coating dissipative -C3 - Example PCSPC2913-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PCSPC2913-C4 *Coating UV protection brown -C4 - Example PCSPC2913-C4*

- Zum Verschließen von Reserveanschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For closing reserve connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



HFN

Blindkappe, HFN

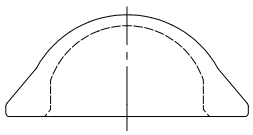
Cap, HFN

	HFN	Art.-No.
HFN-System	16	PCHFN16
	25	PCHFN25
	40	PCHFN40
	50	PCHFN50

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel PCHF25-C3 *Coating dissipative -C3 - Example PCHF25-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel PCHF25-C4 *Coating UV protection brown -C4 - Example PCHF25-C4*

- Zum Verschließen von Reserveanschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For closing reserve connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*



LF

Blindkappe, LF

Cap, LF

	LF	Art.-No.
LF-System	60	CLFL060
	100	CLFL100
	100	CLFT100
	120	CLFT120
	150	CLFT150
	200	CLFT200

Optionen *Options*	Beschichtung ableitfähig -C3 - Beispiel CLFT200-C3 *Coating dissipative -C3 - Example CLFT200-C3*
	Beschichtung UV-Schutz braun -C4 - Beispiel CLFT200-C4 *Coating UV protection brown -C4 - Example CLFT200-C4*

- Zum Verschließen von Reserveanschlüssen
- Hohe Wandstärken für lange Lebensdauer und Druckstabilität
- Zulässige Betriebstemperatur: -50...+200°C
- Zulässiger Betriebsdruck: -1...+0,5 barg
- Material produktberührend: Borosilikatglas 3.3

- *For closing reserve connections*
- *High wall thicknesses for long life and pressure stability*
- *Permissible operating temperature: -50...+200°C*
- *Permissible operating pressure: -1...+0,5 barg*
- *Material product contacting: borosilicate glass 3.3*