TUBES ET SYSTEMES DE RACCORDEMENTS


silo


flexible silo

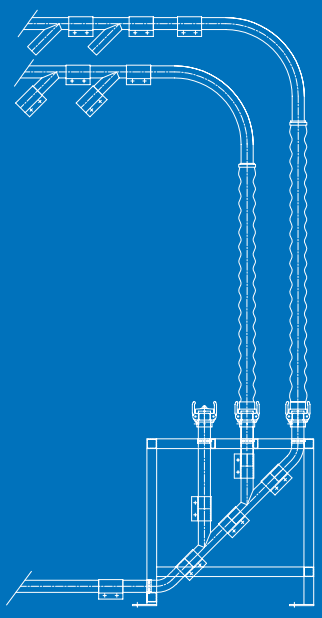

container


pipe systems


bigbag


production



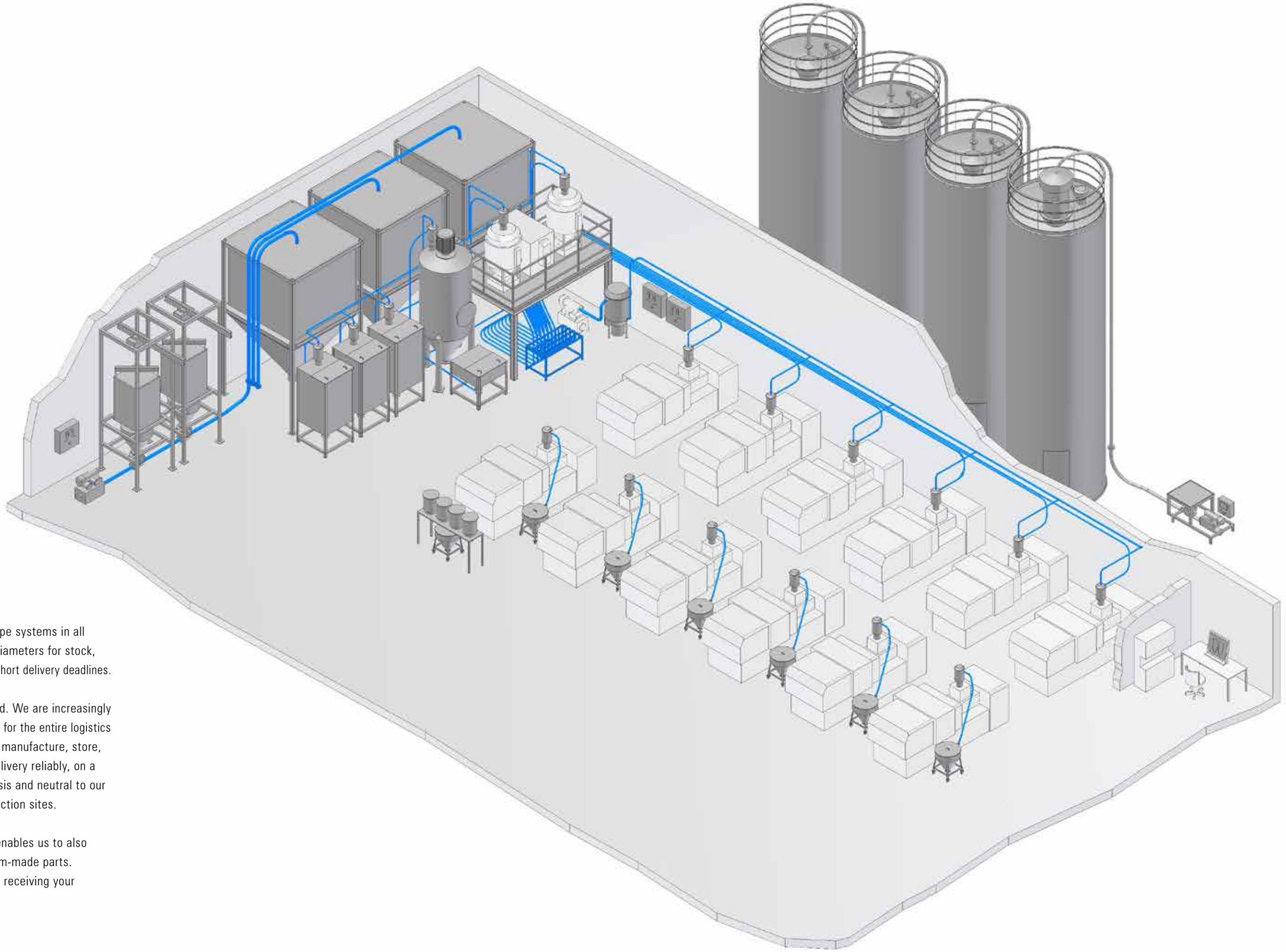








EN



We manufacture pipe systems in all common industry diameters for stock, and can thus meet short delivery deadlines.

Times have changed. We are increasingly taking responsibility for the entire logistics chain. We procure, manufacture, store, commission and delivery reliably, on a project-specific basis and neutral to our customers' construction sites.

Our machine pool enables us to also manufacture custom-made parts.
We look forward to receiving your specifications.

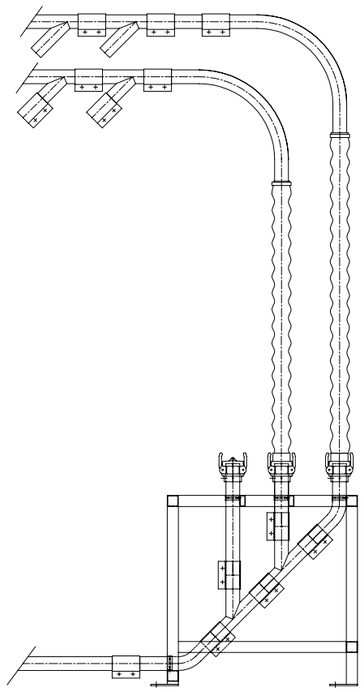
material distributors

Material distributors are used in vacuum conveying systems. They are assembled in a modular system configuration. All parts are standardised and are assembled to form a customer-specific material distributor, depending on the specific requirements. This standardisation allows a stock of the individual components to be maintained, thus reducing delivery times.

In addition to our standards for which we have compiled data sheets, we also produce special solutions that we work out in collaboration with our customers. CAD-supported design is very helpful here.

All pipe parts are connected with pipe couplings and can thus be replaced. The inlet bends and branch pieces are made of stainless steel or glass (for bulk materials causing heavy abrasion).

Couplings (Kamlok male part) closed off by a cap are fitted at every outlet. The cap is connected to the coupling by a chain. We also supply the companion piece for the coupling (Kamlok female part with hose nozzle) onto which our hoses fit superbly.

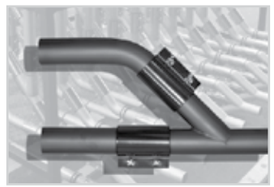


- steel frame, painted in RAL ... (as per customer specifications)
- parts in contact with product are made of stainless steel (or glass for a surcharge)
- 45° branch pieces welded with forming gas
- 45° bend at every inlet and on the front outlets
- frame size to suit the number of inlets and outlets
- Kamlok male part with cap and chain at each outlet





inlet bend made of glass



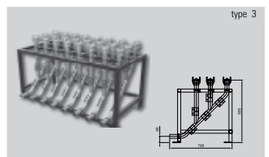
pipe fitting for inlet

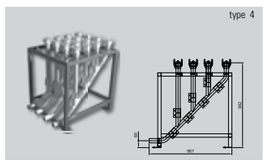


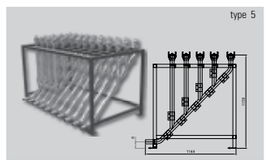
pipe fitting for outlet

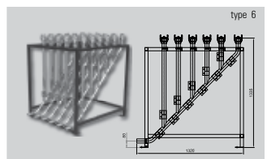


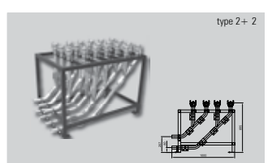
branch pieces made of glass

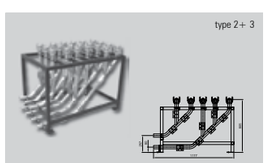


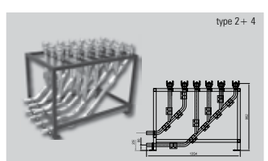


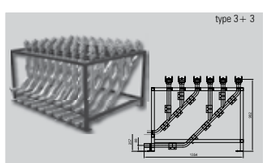




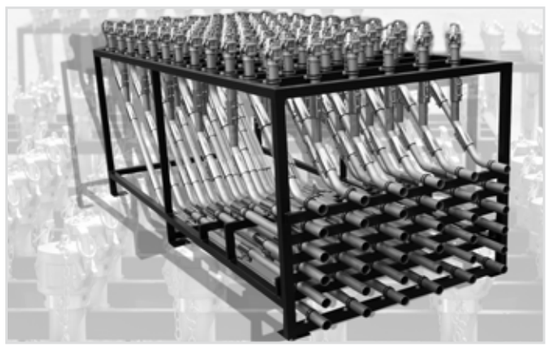


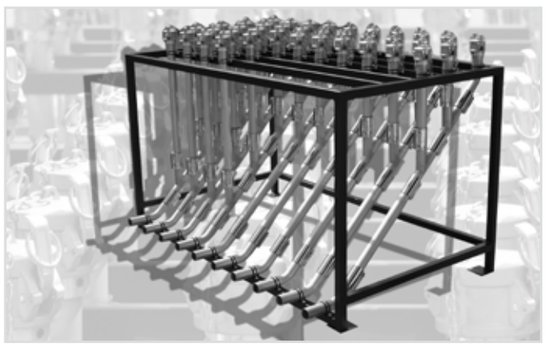
















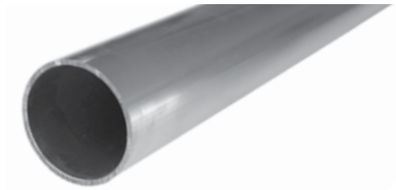




pipes

pipes (aluminium)

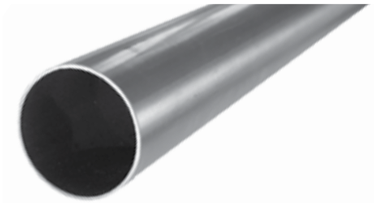
- ends cleanly deburred
- supplied in trade length of 6 m



	Ø (mm)
FR.038.015.AL	38 x 1.5
FR.040.015.AL	40 x 1.5
FR.045.015.AL	45 x 1.5
FR.050.015.AL	50 x 1.5
FR.060.015.AL	60 x 1.5
FR.065.015.AL	65 x 1.5
FR.070.020.AL	70 x 2.0
FR.076.025.AL	76 x 2.5
FR.080.020.AL	80 x 2.0
FR.084.020.AL	84 x 2.0
FR.090.020.AL	90 x 2.0
FR.104.020.AL	104 x 2.0
FR.108.030.AL	108 x 3.0
FR.114.030.AL	114 x 3.0
FR.130.030.AL	130 x 3.0

pipes (stainless steel)

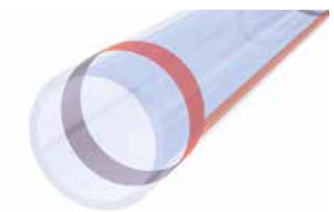
- longitudinal seam-welded pipes
- smoothed inner seam
- ends cleanly deburred
- supplied in trade length of 6 m



	Ø (mm)
FR.038.015.CR	38 x 1.5
FR.040.015.CR	40 x 1.5
FR.045.015.CR	44.5 x 1.5
FR.050.015.CR	50 x 1.5
FR.060.015.CR	60.3 x 1.5
FR.063.015.CR	63.5 x 1.5
FR.065.015.CR	65 x 1.5
FR.070.020.CR	70 x 2.0
FR.076.020.CR	76.1 x 2.0
FR.080.020.CR	80 x 2.0
FR.084.020.CR	84 x 2.0
FR.089.020.CR	88.9 x 2.0
FR.102.020.CR	101.6 x 2.0
FR.104.020.CR	104 x 2.0
FR.108.020.CR	108 x 2.0
FR.114.020.CR	114.3 x 2.0
FR.129.020.CR	129 x 2.0

pipes (glass)

- borosilicate glass 3.3
- with copper strip
- ends fire-polished

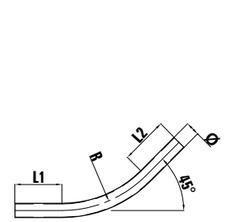


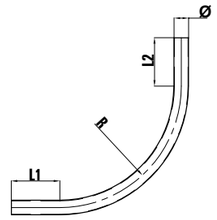
	Ø (mm)	L
FR.047.50.2000.GL	47 x 5.0	2000
FR.048.32.1500.GL	48 x 3.2	1500
FR.056.45.2000.GL	56 x 4.5	2000
FR.065.42.2000.GL	65 x 4.2	2000

bends

bends (stainless steel)

- crease-free bended
- ends cleanly deburred





Ø 38 x 1.5	R (mm)	α (°)	L1/L2 (mm)
RB.038.15.0250.45.200.200.CR	250	45°	200/200
RB.038.15.0250.90.200.200.CR	250	90°	200/200
RB.038.15.0500.45.200.200.CR	500	45°	200/200
RB.038.15.0500.90.200.200.CR	500	90°	200/200
RB.038.15.0800.45.200.200.CR	800	45°	200/200
RB.038.15.0800.90.200.200.CR	800	90°	200/200

Ø 40 x 1.5	R (mm)	α (°)	L1/L2 (mm)
RB.040.15.0090.45.100.140.CR	90	45°	100/140
RB.040.15.0090.90.100.100.CR	90	90°	100/100
RB.040.15.0250.45.100.100.CR	250	45°	100/100
RB.040.15.0250.45.200.200.CR	250	45°	200/200
RB.040.15.0250.90.100.100.CR	250	90°	100/100
RB.040.15.0250.90.200.200.CR	250	90°	200/200
RB.040.15.0380.45.100.100.CR	380	45°	100/100
RB.040.15.0380.90.100.100.CR	380	90°	100/100
RB.040.15.0500.45.100.100.CR	500	45°	100/100
RB.040.15.0500.45.200.200.CR	500	45°	200/200
RB.040.15.0500.90.100.100.CR	500	90°	100/100
RB.040.15.0500.90.200.200.CR	500	90°	200/200
RB.040.15.0800.45.200.200.CR	800	45°	200/200
RB.040.15.0800.90.200.200.CR	800	90°	200/200

Ø 44.5 x 1.5	R (mm)	α (°)	L1/L2 (mm)
RB.045.15.0090.45.100.140.CR	90	45°	100/140
RB.045.15.0090.90.100.100.CR	90	90°	100/100
RB.045.15.0300.45.200.200.CR	300	45°	200/200
RB.045.15.0300.90.200.200.CR	300	90°	200/200

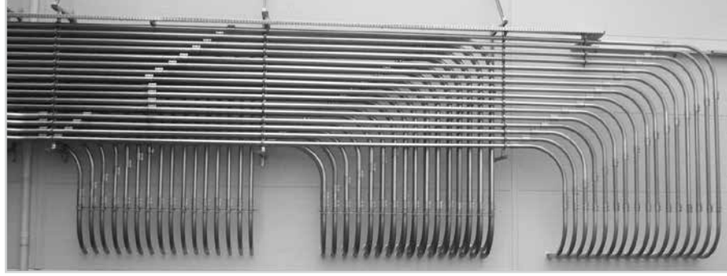


Ø 50 x 1.5	R (mm)	α (°)	L1/L2 (mm)
RB.050.15.0075.90.100.100.CR	75	90°	100/100
RB.050.15.0090.30.100.140.CR	90	30°	100/140
RB.050.15.0090.45.100.140.CR	90	45°	100/140
RB.050.15.0090.60.100.140.CR	90	60°	100/140
RB.050.15.0090.90.100.100.CR	90	90°	100/100
RB.050.15.0250.45.100.100.CR	250	45°	100/100
RB.050.15.0250.45.200.200.CR	250	45°	200/200
RB.050.15.0250.90.100.100.CR	250	90°	100/100
RB.050.15.0250.90.200.200.CR	250	90°	200/200
RB.050.15.0500.45.100.100.CR	500	45°	100/100
RB.050.15.0500.45.200.200.CR	500	45°	200/200
RB.050.15.0500.90.100.100.CR	500	90°	100/100
RB.050.15.0500.90.150.150.CR	500	90°	150/150
RB.050.15.0500.90.200.200.CR	500	90°	200/200
RB.050.15.0800.45.200.200.CR	800	45°	200/200
RB.050.15.0800.90.200.200.CR	800	90°	200/200
RB.050.15.1000.45.200.200.CR	1000	45°	200/200
RB.050.15.1000.90.200.200.CR	1000	90°	200/200



Ø 50 x 2.0	R (mm)	α (°)	L1/L2 (mm)
RB.050.20.0250.45.200.200.CR	250	45°	200/200
RB.050.20.0250.90.200.200.CR	250	90°	200/200
RB.050.20.0500.45.200.200.CR	500	45°	200/200
RB.050.20.0500.90.200.200.CR	500	90°	200/200
RB.050.20.0800.45.200.200.CR	800	45°	200/200
RB.050.20.0800.90.200.200.CR	800	90°	200/200
RB.050.20.1000.45.200.200.CR	1000	45°	200/200
RB.050.20.1000.90.200.200.CR	1000	90°	200/200

bends



Ø 54 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.054.20.0500.45.200.200.CR	500	45°	200/200
RB.054.20.0500.90.200.200.CR	500	90°	200/200
RB.054.20.0800.45.200.200.CR	800	45°	200/200
RB.054.20.0800.90.200.200.CR	800	90°	200/200

Ø 60.3 x 1.5

	R (mm)	α (°)	L1/L2 (mm)
RB.060.15.0090.45.100.140.CR	90	45°	100/140
RB.060.15.0090.90.100.100.CR	90	90°	100/100
RB.060.15.0300.45.200.200.CR	300	45°	200/200
RB.060.15.0300.90.200.200.CR	300	90°	200/200
RB.060.15.0500.45.200.200.CR	500	45°	200/200
RB.060.15.0500.90.200.200.CR	500	90°	200/200
RB.060.15.0800.45.200.200.CR	800	45°	200/200
RB.060.15.0800.90.200.200.CR	800	90°	200/200
RB.060.15.1000.45.200.200.CR	1000	45°	200/200
RB.060.15.1000.90.200.200.CR	1000	90°	200/200

Ø 60.3 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.060.20.0300.45.200.200.CR	300	45°	200/200
RB.060.20.0300.90.200.200.CR	300	90°	200/200
RB.060.20.0500.45.200.200.CR	500	45°	200/200
RB.060.20.0500.90.200.200.CR	500	90°	200/200

Ø 63.5 x 1.5

	R (mm)	α (°)	L1/L2 (mm)
RB.063.15.0500.45.200.200.CR	500	45°	200/200
RB.063.15.0500.90.200.200.CR	500	90°	200/200

Ø 65 x 1.5

	R (mm)	α (°)	L1/L2 (mm)
RB.065.15.0150.30.100.200.CR	150	30°	100/200
RB.065.15.0150.45.100.200.CR	150	45°	100/200
RB.065.15.0150.60.100.200.CR	150	60°	100/200
RB.065.15.0150.90.100.100.CR	150	90°	100/100
RB.065.15.0500.45.200.200.CR	500	45°	200/200
RB.065.15.0500.90.200.200.CR	500	90°	200/200
RB.065.15.0800.45.200.200.CR	800	45°	200/200
RB.065.15.0800.90.200.200.CR	800	90°	200/200
RB.065.15.1000.45.200.200.CR	1000	45°	200/200
RB.065.15.1000.90.200.200.CR	1000	90°	200/200

Ø 70 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.070.20.0150.90.200.200.CR	150	90°	200/200
RB.070.20.0500.45.200.200.CR	500	45°	200/200
RB.070.20.0500.90.200.200.CR	500	90°	200/200
RB.070.20.0800.45.200.200.CR	800	45°	200/200
RB.070.20.0800.90.200.200.CR	800	90°	200/200
RB.070.20.1000.45.200.200.CR	1000	45°	200/200
RB.070.20.1000.90.200.200.CR	1000	90°	200/200



Ø 76.1 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.076.20.0150.45.100.140.CR	150	45°	100/140
RB.076.20.0150.90.200.200.CR	150	90°	200/200
RB.076.20.0500.45.200.200.CR	500	45°	200/200
RB.076.20.0500.90.200.200.CR	500	90°	200/200
RB.076.20.0800.45.200.200.CR	800	45°	200/200
RB.076.20.0800.90.200.200.CR	800	90°	200/200
RB.076.20.1000.45.200.200.CR	1000	45°	200/200
RB.076.20.1000.90.200.200.CR	1000	90°	200/200

Ø 80 x 1.5

	R (mm)	α (°)	L1/L2 (mm)
RB.080.15.0500.45.200.200.CR	500	45°	200/200
RB.080.15.0500.90.200.200.CR	500	90°	200/200
RB.080.15.0800.45.200.200.CR	800	45°	200/200
RB.080.15.0800.90.200.200.CR	800	90°	200/200
RB.080.15.1000.45.200.200.CR	1000	45°	200/200
RB.080.15.1000.90.200.200.CR	1000	90°	200/200

Ø 80 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.080.20.0150.90.200.200.CR	150	90°	200/200
RB.080.20.0500.45.200.200.CR	500	45°	200/200
RB.080.20.0500.90.200.200.CR	500	90°	200/200
RB.080.20.0800.45.200.200.CR	800	45°	200/200
RB.080.20.0800.90.200.200.CR	800	90°	200/200
RB.080.20.1000.45.200.200.CR	1000	45°	200/200
RB.080.20.1000.90.200.200.CR	1000	90°	200/200

Ø 84 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.084.20.0150.90.200.200.CR	150	90°	200/200
RB.084.20.0500.45.200.200.CR	500	45°	200/200
RB.084.20.0500.90.200.200.CR	500	90°	200/200
RB.084.20.0800.45.200.200.CR	800	45°	200/200
RB.084.20.0800.90.200.200.CR	800	90°	200/200
RB.084.20.1000.45.200.200.CR	1000	45°	200/200
RB.084.20.1000.90.200.200.CR	1000	90°	200/200

Ø 85 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.085.20.0500.45.200.200.CR	500	45°	200/200
RB.085.20.0500.90.200.200.CR	500	90°	200/200
RB.085.20.0800.45.200.200.CR	800	45°	200/200
RB.085.20.0800.90.200.200.CR	800	90°	200/200
RB.085.20.1000.45.200.200.CR	1000	45°	200/200
RB.085.20.1000.90.200.200.CR	1000	90°	200/200

Ø 88.9 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.089.20.0150.90.200.200.CR	150	90°	200/200
RB.089.20.0250.45.200.200.CR	250	45°	200/200
RB.089.20.0250.90.200.200.CR	250	90°	200/200
RB.089.20.0500.45.200.200.CR	500	45°	200/200
RB.089.20.0500.90.200.200.CR	500	90°	200/200
RB.089.20.0800.45.200.200.CR	800	45°	200/200
RB.089.20.0800.90.200.200.CR	800	90°	200/200
RB.089.20.1000.45.200.200.CR	1000	45°	200/200
RB.089.20.1000.90.200.200.CR	1000	90°	200/200

Ø 101.6 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.102.20.0500.45.200.200.CR	500	45°	200/200
RB.102.20.0500.90.200.200.CR	500	90°	200/200
RB.102.20.0800.45.200.200.CR	800	45°	200/200
RB.102.20.0800.90.200.200.CR	800	90°	200/200
RB.102.20.1000.45.200.200.CR	1000	45°	200/200
RB.102.20.1000.90.200.200.CR	1000	90°	200/200

Ø 104 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.104.20.0500.45.200.200.CR	500	45°	200/200
RB.104.20.0500.90.200.200.CR	500	90°	200/200
RB.104.20.0800.45.200.200.CR	800	45°	200/200
RB.104.20.0800.90.200.200.CR	800	90°	200/200
RB.104.20.1000.45.200.200.CR	1000	45°	200/200
RB.104.20.1000.90.200.200.CR	1000	90°	200/200

Ø 108 x 2.0

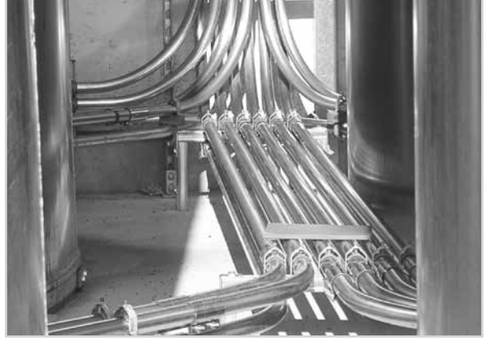
	R (mm)	α (°)	L1/L2 (mm)
RB.108.20.0500.45.200.200.CR	500	45°	200/200
RB.108.20.0500.90.200.200.CR	500	90°	200/200
RB.108.20.0800.45.200.200.CR	800	45°	200/200
RB.108.20.0800.90.200.200.CR	800	90°	200/200
RB.108.20.1000.45.200.200.CR	1000	45°	200/200
RB.108.20.1000.90.200.200.CR	1000	90°	200/200

Ø 114.3 x 2.0

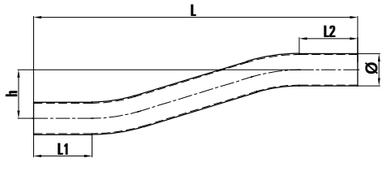
	R (mm)	α (°)	L1/L2 (mm)
RB.114.20.0150.90.200.200.CR	150	90°	200/200
RB.114.20.0500.45.200.200.CR	500	45°	200/200
RB.114.20.0500.90.200.200.CR	500	90°	200/200
RB.114.20.0800.45.200.200.CR	800	45°	200/200
RB.114.20.0800.90.200.200.CR	800	90°	200/200
RB.114.20.1000.45.200.200.CR	1000	45°	200/200
RB.114.20.1000.90.200.200.CR	1000	90°	200/200

Ø 129 x 2.0

	R (mm)	α (°)	L1/L2 (mm)
RB.129.20.0500.45.200.200.CR	500	45°	200/200
RB.129.20.0500.90.200.200.CR	500	90°	200/200
RB.129.20.0800.45.200.200.CR	800	45°	200/200
RB.129.20.0800.90.200.200.CR	800	90°	200/200
RB.129.20.1000.45.200.200.CR	1000	45°	200/200
RB.129.20.1000.90.200.200.CR	1000	90°	200/200



bends for height compensation (stainless steel)

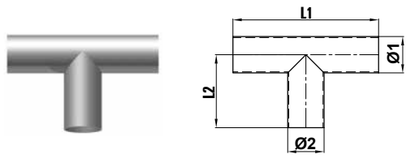


	h	L	L1/L2 (mm)
RB.S.040.15.075.090.090.CR	75	500	90/90
RB.S.045.15.075.090.090.CR	75	500	90/90
RB.S.050.15.075.090.090.CR	75	500	90/90
RB.S.060.15.075.090.090.CR	75	500	90/90

pipe fittings

T-pieces

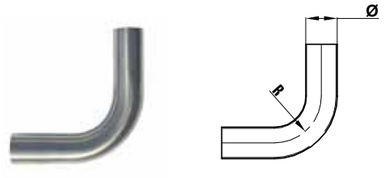
- stainless steel
- shot-blasted (steel balls)



	Ø1 (mm)	Ø2 (mm)	L1 (mm)	L2 (mm)
FS.T.038.15.038.15.CR	38	38	200	100
FS.T.040.15.040.15.CR	40	40	200	100
FS.T.045.15.045.15.CR	44.5	44.5	200	100
FS.T.050.15.040.15.CR	50	40	200	100
FS.T.050.15.050.15.CR	50	50	200	100
FS.T.060.15.045.15.CR	60.3	44.5	200	100
FS.T.060.15.050.15.CR	60.3	50	200	100
FS.T.060.15.060.15.CR	60.3	60.3	200	100
FS.T.065.15.050.15.CR	65	50	200	100
FS.T.065.15.065.15.CR	65	65	200	100
FS.T.070.20.070.20.CR	70	70	300	150
FS.T.076.20.060.15.CR	76.1	60.3	300	150
FS.T.076.20.076.20.CR	76.1	76.1	300	150
FS.T.080.20.080.20.CR	80	80	300	150
FS.T.084.20.084.20.CR	84	84	300	150
FS.T.089.20.089.20.CR	88.9	88.9	300	150
FS.T.102.20.102.20.CR	101.6	101.6	300	150
FS.T.104.20.104.20.CR	104	104	300	150
FS.T.114.20.114.20.CR	114.3	114.3	300	150
FS.T.129.20.129.20.CR	129	129	300	150

L-pieces

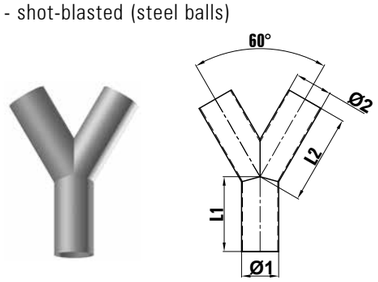
- stainless steel
- crease-free bended



	Ø (mm)	R
RB.040.15.0090.90.100.100.CR	40	90
RB.045.15.0090.90.100.100.CR	44.5	90
RB.050.15.0090.90.100.100.CR	50	90
RB.060.15.0090.90.100.100.CR	60.3	90
RB.065.15.0150.90.100.100.CR	65	150
RB.070.20.0150.90.200.200.CR	70	150
RB.076.20.0150.90.200.200.CR	76.1	150
RB.080.20.0150.90.200.200.CR	80	150
RB.084.20.0150.90.200.200.CR	84	150
RB.089.20.0150.90.200.200.CR	88.9	150
RB.102.20.0150.90.200.200.CR	101.6	150
RB.104.20.0150.90.200.200.CR	104	150
RB.114.20.0150.90.200.200.CR	114.3	150

Y-pieces 60°

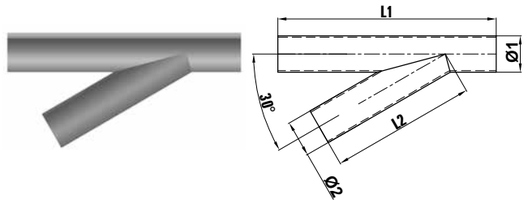
- stainless steel
- shot-blasted (steel balls)



	Ø1 (mm)	Ø2 (mm)	L1 (mm)	L2 (mm)
FS.Y.038.15.038.15.CR	38	38	120	100
FS.Y.040.15.040.15.CR	40	40	120	100
FS.Y.045.15.045.15.CR	44.5	44.5	120	100
FS.Y.050.15.050.15.CR	50	50	120	100
FS.Y.060.15.060.15.CR	60	60	140	100
FS.Y.065.15.065.15.CR	65	65	160	100
FS.Y.076.20.076.20.CR	76.1	76.1	160	100

branch pieces 30°

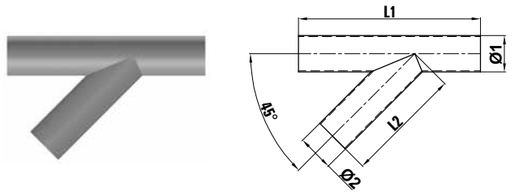
- stainless steel
- shot-blasted (steel balls)



	Ø1 (mm)	Ø2 (mm)	L1 (mm)	L2 (mm)
FS.30.038.15.038.15.CR	38	38	300	200
FS.30.040.15.040.15.CR	40	40	300	200
FS.30.045.15.045.15.CR	44.5	44.5	300	200
FS.30.050.15.050.15.CR	50	50	300	200
FS.30.060.15.045.15.CR	60.3	44.5	300	200
FS.30.060.15.060.15.CR	60.3	60.3	300	208
FS.30.065.15.065.15.CR	65	65	400	300
FS.30.070.20.050.20.CR	70	50	400	300
FS.30.070.20.070.20.CR	70	70	400	300
FS.30.076.20.076.20.CR	76.1	76.1	400	300
FS.30.080.20.080.20.CR	80	80	400	300
FS.30.084.20.084.20.CR	84	84	400	300
FS.30.089.20.089.20.CR	88.9	88.9	450	350
FS.30.100.15.100.15.CR	100	100	450	350
FS.30.102.20.102.20.CR	101.6	101.6	450	350
FS.30.104.20.104.20.CR	104	104	450	350
FS.30.108.20.108.20.CR	108	108	450	350
FS.30.114.20.114.20.CR	114.3	114.3	450	350
FS.30.129.20.129.20.CR	129	129	450	350

branch pieces 45°

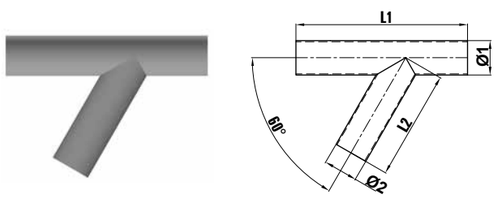
- stainless steel
- shot-blasted (steel balls)



	Ø1 (mm)	Ø2 (mm)	L1 (mm)	L2 (mm)
FS.45.038.15.038.15.CR	38	38	250	160
FS.45.040.15.040.15.CR	40	40	250	160
FS.45.045.15.045.15.CR	44.5	44.5	250	160
FS.45.050.15.050.15.CR	50	50	250	160
FS.45.060.15.045.15.CR	60.3	44.5	250	160
FS.45.060.15.050.15.CR	60.3	50	250	160
FS.45.060.15.060.15.CR	60.3	60.3	250	160
FS.45.065.15.065.15.CR	65	65	250	160
FS.45.070.20.070.20.CR	70	70	300	200
FS.45.076.20.050.15.CR	76.1	50	300	200
FS.45.076.20.060.15.CR	76.1	60.3	300	200
FS.45.076.20.076.20.CR	76.1	76.1	300	200
FS.45.080.20.080.20.CR	80	80	300	200
FS.45.084.20.084.20.CR	84	84	300	200
FS.45.089.20.089.20.CR	88.9	88.9	370	250
FS.45.100.15.100.15.CR	100	100	370	250
FS.45.102.20.102.20.CR	101.6	101.6	370	250
FS.45.104.20.104.20.CR	104	104	370	250
FS.45.114.20.114.20.CR	114.3	114.3	370	250

branch pieces 60°

- stainless steel
- shot-blasted (steel balls)



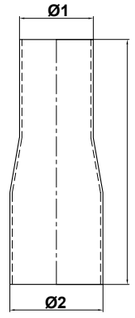
	Ø1 (mm)	Ø2 (mm)	L1 (mm)	L2 (mm)
FS.60.038.15.038.15.CR	38	38	250	160
FS.60.050.15.050.15.CR	50	50	250	160
FS.60.065.15.065.15.CR	65	65	250	160

reducers

reducers

- stainless steel
- ends cleanly deburred





	Ø1 (mm)	Ø2 (mm)	L (mm)
FS.RED.038.040.CR	38	40	150
FS.RED.038.045.CR	38	44.5	150
FS.RED.038.050.CR	38	50	150
FS.RED.038.054.CR	38	54	150
FS.RED.040.045.CR	40	44.5	150
FS.RED.040.050.CR	40	50	150
FS.RED.040.054.CR	40	54	150
FS.RED.040.060.CR	40	60.3	150
FS.RED.045.050.CR	44.5	50	150
FS.RED.045.054.CR	44.5	54	150
FS.RED.045.060.CR	44.5	60.3	150
FS.RED.050.054.CR	50	54	150
FS.RED.050.060.CR	50	60.3	150
FS.RED.050.065.CR	50	65	150
FS.RED.050.070.CR	50	70	150
FS.RED.054.070.CR	54	70	150
FS.RED.060.063.CR	60.3	63.5	150
FS.RED.060.065.CR	60.3	65	150
FS.RED.060.070.CR	60.3	70	200
FS.RED.060.076.CR	60.3	76.1	200
FS.RED.060.080.CR	60.3	80	200
FS.RED.065.070.CR	65	70	200
FS.RED.065.076.CR	65	76.1	200
FS.RED.065.080.CR	65	80	200
FS.RED.065.084.CR	65	84	200
FS.RED.070.076.CR	70	76.1	200
FS.RED.070.080.CR	70	80	200
FS.RED.070.089.CR	70	88.9	200
FS.RED.076.080.CR	76.1	80	200
FS.RED.076.084.CR	76.1	84	200
FS.RED.076.089.CR	76.1	88.9	200
FS.RED.080.084.CR	80	84	200
FS.RED.080.089.CR	80	88.9	200
FS.RED.080.100.CR	80	100	200
FS.RED.084.089.CR	84	88.9	200
FS.RED.084.102.CR	84	101.6	200
FS.RED.084.104.CR	84	104	200
FS.RED.089.100.CR	88.9	100	200
FS.RED.089.102.CR	88.9	101.6	200
FS.RED.089.104.CR	88.9	104	200
FS.RED.089.108.CR	88.9	108	200
FS.RED.102.104.CR	101.6	104	200
FS.RED.102.108.CR	101.6	108	200
FS.RED.102.114.CR	101.6	114.3	200
FS.RED.104.108.CR	104	108	200
FS.RED.104.114.CR	104	114.3	200
FS.RED.108.114.CR	108	114.3	200

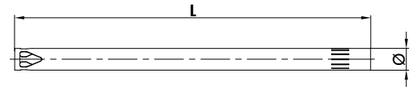
suction tubes

suction tube (1A) single-walled

- stainless steel 1.4301



	Ø	L
SGL.1A.038.0500.CR	38	530
SGL.1A.038.0800.CR	38	820
SGL.1A.040.0500.CR	40	530
SGL.1A.040.0800.CR	40	820
SGL.1A.045.0500.CR	44.5	530
SGL.1A.045.0800.CR	44.5	820
SGL.1A.050.0500.CR	50	530
SGL.1A.050.0800.CR	50	820
SGL.1A.060.0800.CR	60.3	820

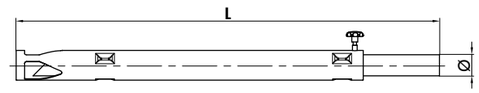


suction tube (2A) double-walled

- stainless steel 1.4301



	Ø	L
SGL.2A.038.1000.CR	38	1000
SGL.2A.040.1000.CR	40	1000
SGL.2A.045.1000.CR	44.5	1000
SGL.2A.050.1000.CR	50	1000
SGL.2A.060.1000.CR	60.3	1000
SGL.2A.065.1000.CR	65	1000
SGL.2A.070.1000.CR	70	1000
SGL.2A.076.1000.CR	76.1	1000

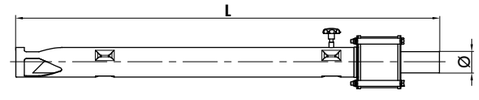


suction pipe with filter (2F) double-walled

- stainless steel 1.4301



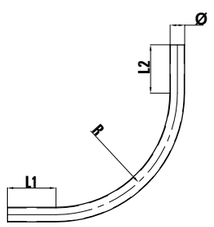
	Ø	L
SGL.2F.040.1000.CR	40	1000
SGL.2F.050.1000.CR	50	1000
SGL.2F.060.1000.CR	60.3	1000

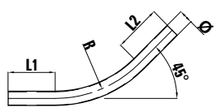


bends (glass)

bends (glass)

- borosilicate glass 3.3
- ends fire-polished
- with copper strip







Ø 47 x 5.0

	R (mm)	α (°)	L1/L2 (mm)
RB.047.50.0250.45.100.100.GL	250	45°	100/100
RB.047.50.0250.45.200.200.GL	250	45°	200/200
RB.047.50.0250.90.100.100.GL	250	90°	100/100
RB.047.50.0250.90.100.100.GL	250	90°	100/100
RB.047.50.0380.45.100.100.GL	380	45°	100/100
RB.047.50.0380.90.100.100.GL	380	90°	100/100
RB.047.50.0500.45.100.100.GL	500	45°	100/100
RB.047.50.0500.45.200.200.GL	500	45°	200/200
RB.047.50.0500.90.100.100.GL	500	90°	100/100
RB.047.50.0500.90.200.200.GL	500	90°	200/200

Ø 54 x 3.5

RB.054.35.0090.45.100.140.GL	90	45°	100/140
RB.054.35.0090.90.100.100.GL	90	90°	100/100



Ø 56 x 4.5

RB.056.45.0250.45.100.100.GL	250	45°	100/100
RB.056.45.0250.90.200.200.GL	250	90°	200/200
RB.056.45.0250.45.100.100.GL	250	45°	100/100
RB.056.45.0250.90.200.200.GL	250	90°	200/200
RB.056.45.0500.45.100.100.GL	500	45°	100/100
RB.056.45.0500.45.200.200.GL	500	45°	200/200
RB.056.45.0500.90.100.100.GL	500	90°	100/100
RB.056.45.0500.90.200.200.GL	500	90°	200/200

Ø 65 x 4.2

RB.065.42.0090.45.100.140.GL	90	45°	100/100
RB.065.42.0090.90.100.100.GL	90	90°	200/200
RB.065.42.0300.90.200.200.GL	300	90°	200/200
RB.065.42.0500.45.200.200.GL	500	45°	200/200
RB.065.42.0500.90.200.200.GL	500	90°	200/200

Ø 80 x 5.0

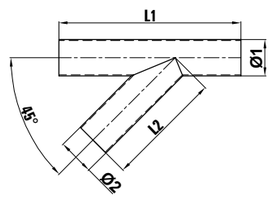
RB.080.50.0150.45.100.140.GL	150	45°	100/140
RB.080.50.0500.45.200.200.GL	500	45°	200/200
RB.080.50.0500.90.200.200.GL	500	90°	200/200

pipe fittings (glass)

branch pieces 45°

- borosilicate glass 3.3
- ends fire-polished
- with copper strip

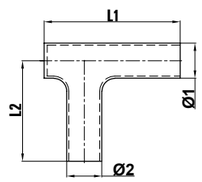




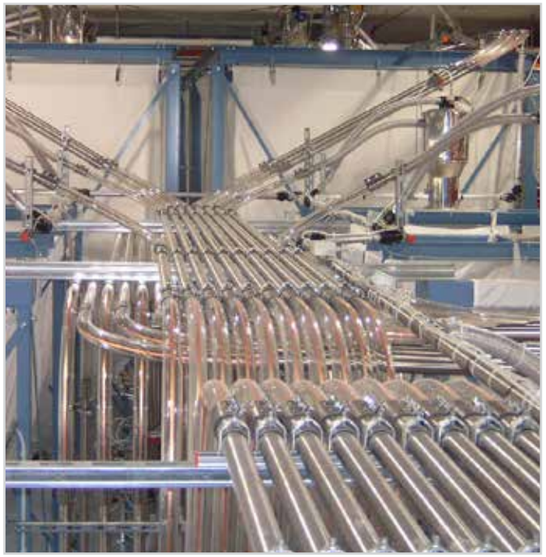
	Ø1 (mm)	Ø2 (mm)	L1 (mm)	L2 (mm)
FS.45.044.32.044.32.GL	44 x 3.2	44 x 3.2	250	160
FS.45.054.35.054.32.GL	54 x 3.5	54 x 3.5	250	160
FS.45.065.42.065.42.GL	65 x 4.2	65 x 4.2	250	160

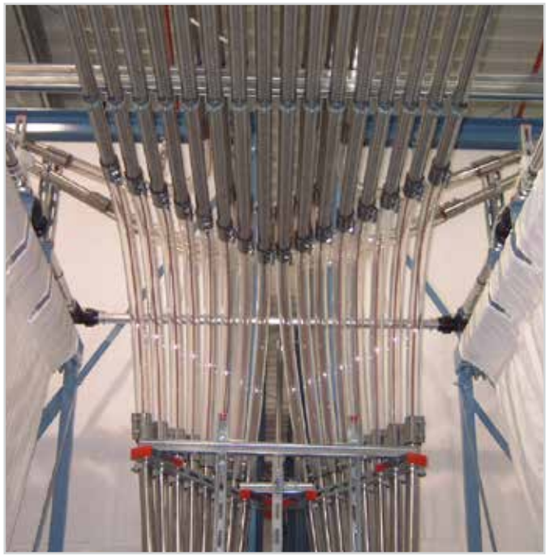
T-pieces (one side closed)

- borosilicate glass 3.3
- ends fire-polished
- with copper strip



	Ø1 (mm)	Ø2 (mm)	L1 (mm)	L2 (mm)
FS.T.044.32.044.32.GL	44 x 3.2	44 x 3.2	210	155
FS.T.048.32.048.32.GL	48 x 3.2	48 x 3.2	210	155
FS.T.054.32.054.32.GL	54 x 3.5	54 x 3.5	210	155
FS.T.065.42.065.42.GL	65 x 4.2	65 x 4.2	210	155



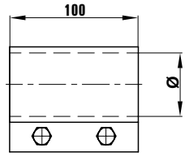


pipe couplings

pipe couplings (RV.10)

- light version
- length = 100 mm, 2 screws
- sleeve (NBR or silicone)
- stainless steel sleeve



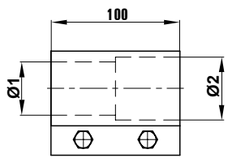


	Ø (mm)	gasket	max. C°
RV.10.038.100.2.01.CR	38	NBR black	80
RV.10.038.100.2.03.CR	38	silicone red	250
RV.10.040.100.2.01.CR	40	NBR black	80
RV.10.040.100.2.02.CR	40	NBR white	80
RV.10.040.100.2.03.CR	40	silicone red	250
RV.10.045.100.2.01.CR	45	NBR black	80
RV.10.048.100.2.01.CR	48	NBR black	80
RV.10.050.100.2.01.CR	50	NBR black	80
RV.10.050.100.2.02.CR	50	NBR white	80
RV.10.050.100.2.03.CR	50	silicone red	250
RV.10.054.100.2.01.CR	54	NBR black	80
RV.10.060.100.2.01.CR	60	NBR black	80
RV.10.060.100.2.02.CR	60	NBR white	80
RV.10.060.100.2.03.CR	60	silicone red	250
RV.10.063.100.2.01.CR	63	NBR black	80
RV.10.065.100.2.01.CR	65	NBR black	80
RV.10.065.100.2.02.CR	65	NBR white	80
RV.10.070.100.2.01.CR	70	NBR black	80
RV.10.076.100.2.01.CR	76	NBR black	80
RV.10.080.100.2.01.CR	80	NBR black	80
RV.10.080.100.2.03.CR	80	silicone red	250
RV.10.090.100.2.01.CR	90	NBR black	80
RV.10.102.100.2.02.CR	102	NBR white	80

pipe couplings (RV.11)

- light version
- for connecting glass and stainless steel
- length = 100 mm, 2 screws
- sleeve (NBR)
- stainless steel sleeve



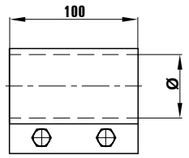


	Ø1	Ø2	gasket	max. C°
RV.11.038.042.100.2.01.CR	38	42	NBR black	80
RV.11.040.044.100.2.01.CR	40	44	NBR black	80
RV.11.040.047.100.2.01.CR	40	47	NBR black	80
RV.11.045.048.100.2.01.CR	45	48	NBR black	80
RV.11.050.054.100.2.01.CR	50	54	NBR black	80
RV.11.050.056.100.2.01.CR	50	56	NBR black	80
RV.11.060.066.100.2.01.CR	60	66	NBR black	80
RV.11.076.080.100.2.01.CR	76	80	NBR black	80

pipe couplings (RV.12)

- simple execution
- length = 100 mm, 2 screws
- sleeve (NBR)
- stainless steel sleeve
- inliner (L=50 mm) stainless steel



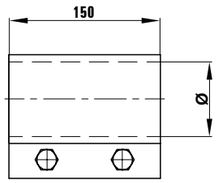


	Ø (mm)	gasket	max. C°
RV.12.045.100.2.02.CR	45	NBR black	80
RV.12.050.100.2.02.CR	50	NBR black	80
RV.12.060.100.2.01.CR	60	NBR black	80
RV.12.060.100.2.03.CR	60	NBR black	80
RV.12.076.100.2.02.CR	76	NBR black	80
RV.12.076.100.2.03.CR	76	NBR black	80

pipe couplings (RV.20)

- heavy version
- length = 150 mm, 3 screws
- sleeve (NBR)
- galvanised sleeve





	Ø (mm)	gasket	max. C°
RV.20.050.150.3.02.VZ	50	NBR white	80
RV.20.054.150.3.02.VZ	54	NBR white	80
RV.20.060.150.3.02.VZ	60	NBR white	80
RV.20.063.150.3.02.VZ	63	NBR white	80
RV.20.065.150.3.02.VZ	65	NBR white	80
RV.20.070.150.3.02.VZ	70	NBR white	80
RV.20.076.150.3.02.VZ	76	NBR white	80
RV.20.080.150.3.02.VZ	80	NBR white	80
RV.20.084.150.3.02.VZ	84	NBR white	80
RV.20.085.150.3.02.VZ	85	NBR white	80
RV.20.089.150.3.02.VZ	89	NBR white	80
RV.20.095.150.3.02.VZ	95	NBR white	80
RV.20.100.150.3.02.VZ	100	NBR white	80
RV.20.102.150.3.02.VZ	101	NBR white	80
RV.20.104.150.3.02.VZ	104	NBR white	80
RV.20.108.150.3.02.VZ	108	NBR white	80
RV.20.114.150.3.02.VZ	114	NBR white	80
RV.20.125.150.3.02.VZ	125	NBR white	80
RV.20.127.150.3.02.VZ	127	NBR white	80
RV.20.129.150.3.02.VZ	129	NBR white	80
RV.20.133.150.3.02.VZ	133	NBR white	80
RV.20.139.150.3.02.VZ	139	NBR white	80
RV.20.154.150.3.02.VZ	154	NBR white	80

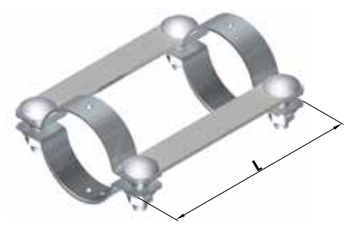
pipe couplings (RV.20)

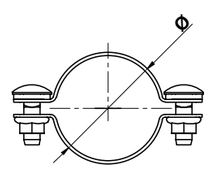
- heavy version
- length = 150 mm, 3 screws
- sleeve (NBR)
- stainless steel sleeve

	Ø (mm)	gasket	max. C°
RV.20.089.150.3.02.CR	89	NBR white	80
RV.20.108.150.3.02.CR	108	NBR white	80
RV.20.114.150.3.02.CR	114	NBR white	80

traction relief

- suitable for coupling length 150 / 200 mm
- pipe clamp made of stainless steel
- connection parts made of aluminium





	Ø (mm)	L
RV.ZUG.060	60	290
RV.ZUG.070	70	290
RV.ZUG.076	76	290
RV.ZUG.080	80	290
RV.ZUG.084	84	290
RV.ZUG.089	89	290
RV.ZUG.100	100	290
RV.ZUG.102	102	290
RV.ZUG.104	104	290
RV.ZUG.106	106	290
RV.ZUG.108	108	290
RV.ZUG.110	110	290
RV.ZUG.114	114	290
RV.ZUG.125	125	290
RV.ZUG.129	129	290
RV.ZUG.133	133	290
RV.ZUG.139	139	290
RV.ZUG.154	154	290

camlock-couplings

male part (A)
- made of aluminium
- with gasket



	Ø
KP.CAM.A.01.40.AL	40
KP.CAM.A.01.45.AL	45
KP.CAM.A.01.50.AL	50
KP.CAM.A.01.60.AL	60
KP.CAM.A.01.65.AL	65
KP.CAM.A.01.76.AL	76

cap (DC)
- made of aluminium
- with mounting chain
- with gasket



	Ø
KP.CAM.DC.01.40.AL	40
KP.CAM.DC.01.45.50.AL	45
KP.CAM.DC.01.45.50.AL	50
KP.CAM.DC.01.60.65.AL	60
KP.CAM.DC.01.60.65.AL	65
KP.CAM.DC.01.76.AL	76

female part (C)
- made of stainless steel / aluminium
- with gasket



	Ø
KP.CAM.C.02.38.CR	38
KP.CAM.C.02.40.CR	40
KP.CAM.C.02.45.CR	44.5
KP.CAM.C.02.50.CR	50
KP.CAM.C.02.60.CR	60.3
KP.CAM.C.02.65.CR	65

female part (C)
- made of aluminium
- with gasket



	Ø
KP.CAM.C.01.40.AL	40
KP.CAM.C.01.50.AL	50
KP.CAM.C.01.60.AL	60
KP.CAM.C.01.76.AL	76

plug (DP)
- made of aluminium
- with mounting chain



	Ø
KP.CAM.DP.01.40.AL	40
KP.CAM.DP.01.45.50.AL	45
KP.CAM.DP.01.45.50.AL	50
KP.CAM.DP.01.60.65.AL	60
KP.CAM.DP.01.60.65.AL	65
KP.CAM.DP.01.76.AL	76



Storz coupling

Storz hose coupling
- aluminium coupling
- with gasket



	for hose Ø	size
KP.STORZ.SCH.01.A.090.AL	90	Storz-A (133)
KP.STORZ.SCH.01.A.102.AL	102	Storz-A (133)
KP.STORZ.SCH.01.B.076.AL	76	Storz-B (89)
KP.STORZ.SCH.01.B.080.AL	80	Storz-B (89)
KP.STORZ.SCH.01.C.050.AL	50	Storz-C (66)

Storz coupling
- aluminium coupling
- with cap and mounting chain
- limit switch (10 m cable)



	thread	size
KP.STORZ.OROHR.01.A.ES.AL	4"	Storz-A (133)
KP.STORZ.OROHR.01.B.ES.AL	3"	Storz-B (89)

Storz coupling (with pipe)
- aluminium coupling
- stainless steel pipe



	pipe Ø	pipe length	size
KP.STORZ.MROHR.01.A.089.AL	88.9	500	Storz-A (133)
KP.STORZ.MROHR.01.B.089.AL	88.9	500	Storz-B (89)
KP.STORZ.MROHR.01.A.108.AL	108	500	Storz-A (133)

Storz coupling (with pipe)
- aluminium coupling
- stainless steel pipe
- limit switch (10 m cable)



	pipe Ø	pipe length	size
KP.STORZ.MROHR.01.A.089.ES.AL	88.9	500	Storz-A (133)
KP.STORZ.MROHR.01.B.089.ES.AL	88.9	500	Storz-B (89)
KP.STORZ.MROHR.01.A.108.ES.AL	108	500	Storz-A (133)



hoses

plastic hose (SCH.01)

- outside material PVC
- inside material PVC
- with earthing wire
- 20 m - rolls



	Ø (mm)	C°
SCH.01.PVC.038	38	-20° / +65°
SCH.01.PVC.040	40	-20° / +65°
SCH.01.PVC.045	45	-20° / +65°
SCH.01.PVC.050	50	-20° / +65°
SCH.01.PVC.060	60	-20° / +65°
SCH.01.PVC.076	76	-20° / +65°

plastic hose (SCH.01)

- outside material PVC
- inside material PUR (0,6 mm)
- with grounding
- 20 m - rolls

	Ø (mm)	C°
SCH.01.PVC.PUR.040	40	-20° / +80°
SCH.01.PVC.PUR.050	50	-20° / +80°
SCH.01.PVC.PUR.060	60	-20° / +80°

plastic hose (SCH.02)

- outside material PVC
- inside material PUR (1,4 mm)
- with earthing wire
- 20 m - rolls



	Ø (mm)	mm	C°
SCH.02.PUR.14.032	32	1,4	-40° / +100°
SCH.02.PUR.14.038	38	1,4	-40° / +100°
SCH.02.PUR.14.040	40	1,4	-40° / +100°
SCH.02.PUR.20.040	40	2,0	-40° / +100°
SCH.02.PUR.14.045	45	1,4	-40° / +100°
SCH.02.PUR.14.050	50	1,4	-40° / +100°
SCH.02.PUR.20.050	50	2,0	-40° / +100°
SCH.02.PUR.14.054	54	1,4	-40° / +100°
SCH.02.PUR.14.060	60	1,4	-40° / +100°
SCH.02.PUR.20.060	60	2,0	-40° / +100°
SCH.02.PUR.14.065	65	1,4	-40° / +100°
SCH.02.PUR.14.076	76	1,4	-40° / +100°
SCH.02.PUR.14.080	80	1,4	-40° / +100°
SCH.02.PUR.20.090	90	2,0	-40° / +100°
SCH.02.PUR.14.100	110	1,4	-40° / +100°
SCH.02.PUR.14.150	150	1,4	-40° / +100°

plastic hose (SCH.03)

- outside material PVC
- inside material PUR (0,6 mm)
- with earthing wire
- 20 m - rolls



	Ø (mm)	C°
SCH.03.PVC.038	38	-15° / +60°
SCH.03.PVC.040	40	-15° / +60°
SCH.03.PVC.050	50	-15° / +60°
SCH.03.PVC.060	60	-15° / +60°
SCH.03.PVC.070	70	-15° / +60°

plastic hose (SCH.03)

- outside material PVC
- inside material PUR (0,6 mm)
- with earthing wire
- 20 m - rolls

	Ø (mm)	C°
SCH.03.PVC.PUR.06.030	30	-15° / +65°
SCH.03.PVC.PUR.06.032	32	-15° / +65°
SCH.03.PVC.PUR.06.038	38	-15° / +65°
SCH.03.PVC.PUR.06.040	40	-15° / +65°
SCH.03.PVC.PUR.06.050	50	-15° / +65°
SCH.03.PVC.PUR.06.054	54	-15° / +65°
SCH.03.PVC.PUR.06.060	60	-15° / +65°
SCH.03.PVC.PUR.06.076	76	-15° / +65°



clamp

clamp „worm drive“

- steel (galvanised)



	Ø (mm)	width
SCH.SCHNE.012.020.12.VZ	12 - 20	12
SCH.SCHNE.020.032.05.VZ	20 - 32	5
SCH.SCHNE.032.045.05.VZ	32 - 45	12
SCH.SCHNE.040.060.12.VZ	40 - 60	12
SCH.SCHNE.060.080.12.VZ	60 - 80	12
SCH.SCHNE.070.090.12.VZ	70 - 90	12
SCH.SCHNE.090.110.12.VZ	90 - 110	12
SCH.SCHNE.150.170.12.VZ	150 - 170	12
SCH.SCHNE.192.227.20.VZ	192 - 227	20
SCH.SCHNE.217.252.20.VZ	217 - 252	20
SCH.SCHNE.242.277.20.VZ	242 - 277	20

clamp „hinge bolt“

- stainless steel

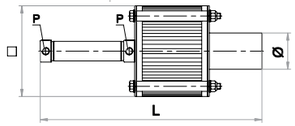


	Ø (mm)	width
SCH.GELENK.051.055.20.CR	51 - 55	20
SCH.GELENK.073.079.25.CR	73 - 79	25
SCH.GELENK.091.097.25.CR	91 - 97	25
SCH.GELENK.097.104.25.CR	97 - 104	25
SCH.GELENK.104.112.25.CR	104 - 112	25
SCH.GELENK.112.121.25.CR	112 - 121	25
SCH.GELENK.121.130.25.CR	121 - 130	25

suction by-pass valves / slide valves

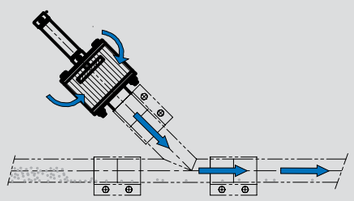
suction by-pass valve (LSV)

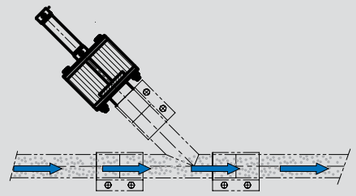




	Ø	P	□	L
LSV.10.040.01.024V	40	1/8"	125 x 125	330
LSV.10.045.01.024V	45	1/8"	125 x 125	330
LSV.10.050.01.024V	50	1/8"	125 x 125	330
LSV.10.060.01.024V	60	1/8"	125 x 125	379
LSV.10.065.01.024V	65	1/8"	125 x 125	379
LSV.10.070.01.024V	70	1/8"	150 x 150	372
LSV.10.076.01.024V	76	1/8"	150 x 150	372

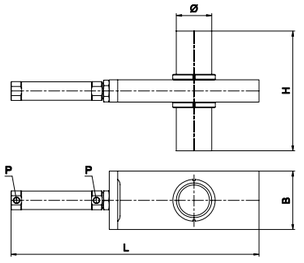
function: **open:** **closed:**





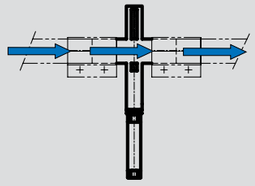
slide valve (AS.10)

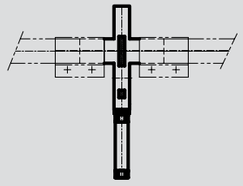




	Ø	P	B	L	H
AS.10.040.01.024V	40	1/8"	74	310	170
AS.10.045.01.024V	44.5	1/8"	84	360	208
AS.10.050.01.024V	50	1/8"	84	360	172
AS.10.060.01.024V	60.3	1/8"	94	400	172
AS.10.065.01.024V	65	1/8"	114	488	294
AS.10.070.01.024V	70	1/8"	114	488	266
AS.10.076.01.024V	76.1	1/8"	114	488	224
AS.10.080.01.024V	80	1/8"	128	564	283
AS.10.084.01.024V	84	1/8"	128	564	260
AS.10.089.01.024V	88.9	1/8"	128	564	224

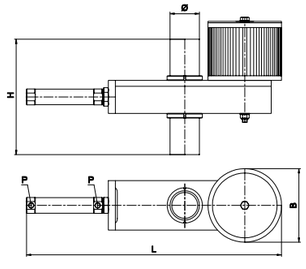
function: **open:** **closed:**





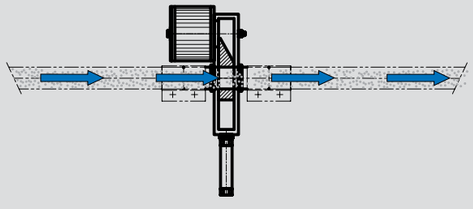
slide valve with by-pass (AS.20)

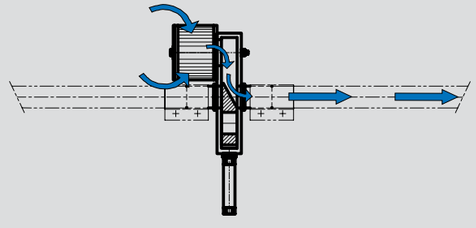




	Ø	P	B	L	H
AS.20.040.F.024V	40	1/8"	74	414	196
AS.20.045.F.024V	44.5	1/8"	84	440	232
AS.20.050.F.024V	50	1/8"	84	440	196
AS.20.060.F.024V	60.3	1/8"	94	456	206
AS.20.076.F.024V	76.1	1/8"	118	545	257

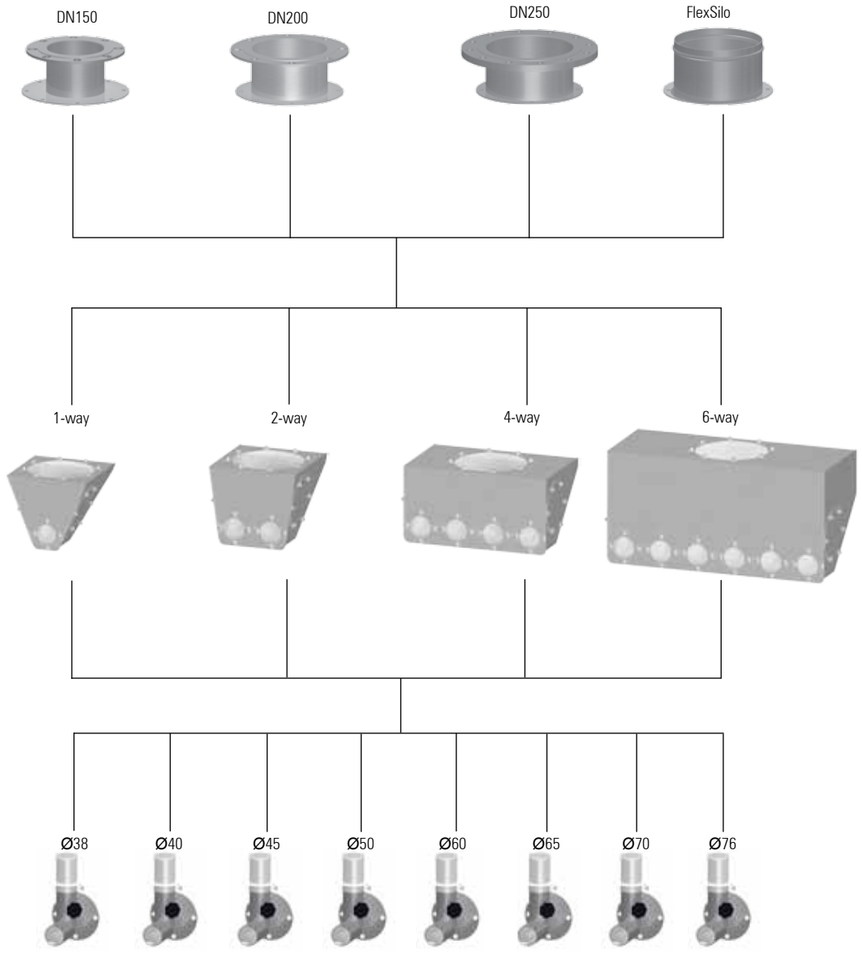
function: **open:** **closed:**





suction boxes

suction box (modular system)



	ø
ASK.SL.A.150	DN150
ASK.SL.A.200	DN200
ASK.SL.A.250	DN250
ASK.SL.A.FLEX	FlexSilo

suction tube adapters	
ASK.SL.B.1	1-way
ASK.SL.B.2	2-way
ASK.SL.B.4	4-way
ASK.SL.B.6	6-way

	ø
ASK.SL.C.038.SIEB	38
ASK.SL.C.040.SIEB	40
ASK.SL.C.045.SIEB	44.5
ASK.SL.C.050.SIEB	50
ASK.SL.C.060.SIEB	60.3
ASK.SL.C.065.SIEB	65
ASK.SL.C.070.SIEB	70
ASK.SL.C.076.SIEB	76.1

accessories

ASK.SL.Z.FILT. ...



ASK.SL.Z.STORZ.A

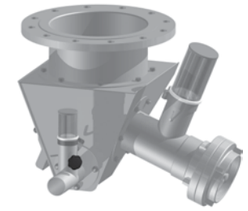


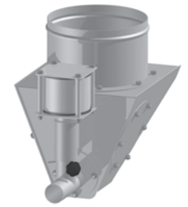
ASK.SL.Z.PROBE

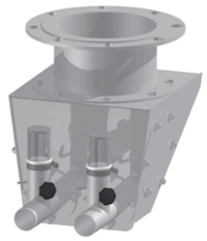


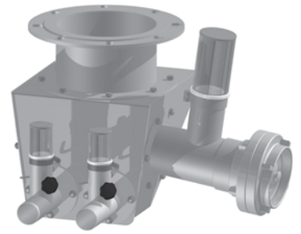
	description
ASK.SL.Z.DECKEL	cover suction hole
ASK.SL.Z.FILT.045.01	filter suction point D=40/45
ASK.SL.Z.FILT.050.01	filter suction point D=50
ASK.SL.Z.FILT.060.01	filter suction point D=60
ASK.SL.Z.PROBE	sample taking
ASK.SL.Z.STORZ.A	suction coupling silo truck Storz-A

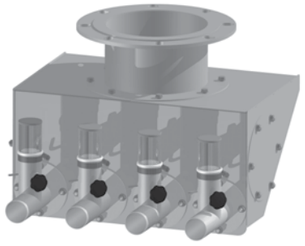
examples

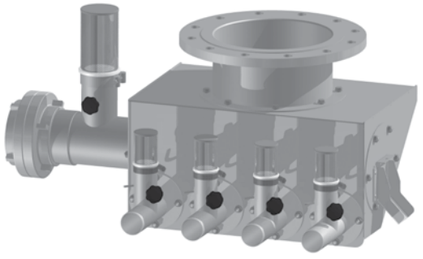


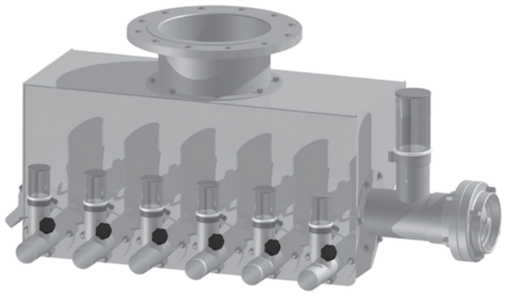


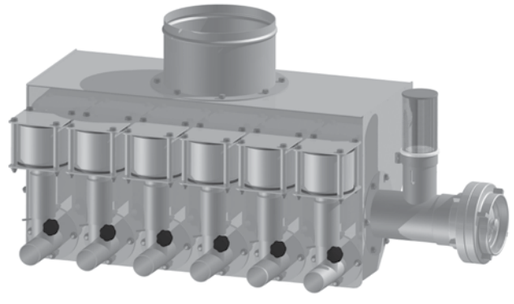


















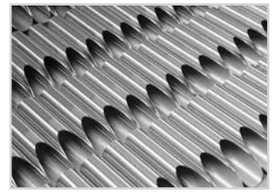



TruLaser Tube 7000

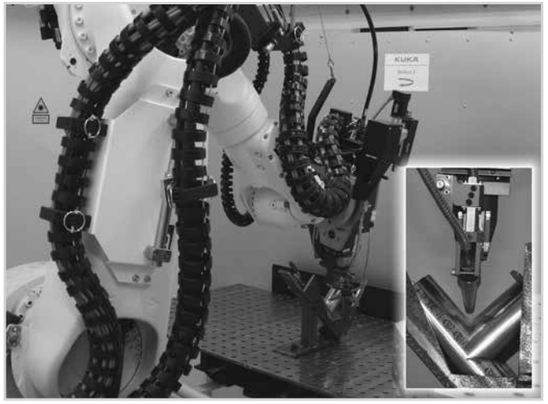









TruLaser Robot 5020


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subjects to technical modifications - 09/2014