



DIN





Hygienic Fluid Equipment **Professional Manufacturers.**

As a professional sanitary stainless steel pipe and fittings factory, we do molding design and manufacture, heat treatment, casting, forging, electrolytic polishing, drilling, milling machine, CNC machining, cleaning, welding, assembling, packing, we offer a wide range of choices.

King Lai's research and development team is constantly searching to improve our craftsmanship. With regular machinery-acquiring plans, King Lai has effectively lowered production cost and helped customers earn the greatest profit margin and market share in their regions.

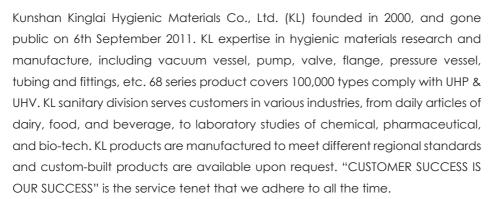


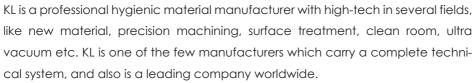
We Pursue Our Customers Satisfaction with Pride.











KL had been certified by ASME BPE in 2013 for both tubing and fitting (*manufacturer), which is the NO.1 in Asia. Also, KL product comply with 3A, DIN, ISO, EHEDG etc.













THERE IS NO END OF STARTING

KingLai group for many years to fully meet customer demand as own duty, set a good brand image. Excellent management team and a good space to grow up and become a world-class high clean application materials suppliers, in the global food industry, pharmaceutical, biochemical, pharmaceutical industry and electronic clean areas have stable high-end customers, become the new the sustained and rapid growth of the company.

2018 BIHAI filling machines fabricate company

Acquisition BIHAI filling machines Fabricate company

2017 Lion Hygienic Materials Co., Ltd

Setup Lion Hygienic material Co ltd process for gasline to integrate vacuum industries.

2016 KL Group GNB, KL Group Ireland JV.

Acquisition KL Group GNB Establish, Setup KL Group Ireland JV.

2014 EHEDG Certified

2013 ASME BPE Certified

Certified tubing and fitting manufacturer by ASME BPE Org.

2012/2013 KingLai Group

Joint Venture with abc on pressure vessel Investment on ITO equipment production

2011 Listed Stock (SZSE : 300260)

Certified by GB, ASME(pressure vessel)

Certified by 3A(diaphragm valve, Filter, Changeover valve, tube)

Expansion the 3rd phase(Hefeng factory)

2009 Polaris Factory

3A Certified

ISO9001-2008. PED Certified

2008 Certified of pressure piping

Certified by ISO, BSI

2007 Extablished Polaris Stainless Steel Technology Co., Ltd.

2006 Expansion the 3rd phase(KingLai factory)

Certified by 3A(C pumps, Ball valve, Check valve)

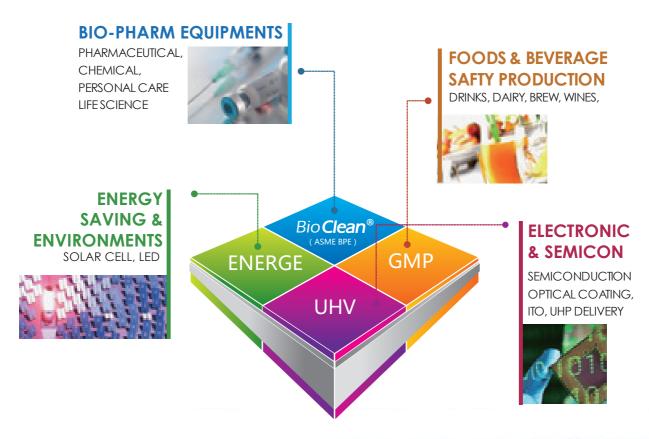
2004 Certified by ISO 9001-2000

2000 Built the domestic factory (KingLai factory)

1991 Founded in Taiwan

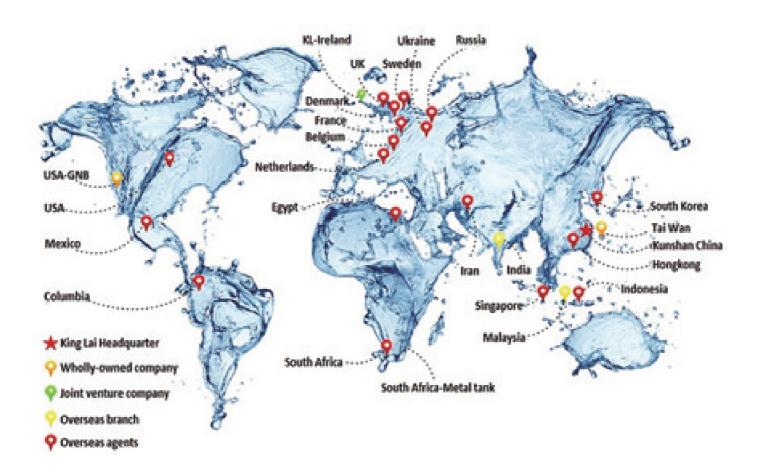
APPLICATION FIELDS

As high clean applied materials has the global scope began to widespread popula rization application, Our product is safe and efficient transmission fluid, control fluid steering, in food, beverage, dairy, and other industrial production in the in a wide range of applications. Fluid handling equipment such as pumps, valves, heat exchangers, storage equipment and pipeline fittings and installation materials, etc. in the company can meet customer multiple design as well as to the health of the strict requirements.





MARKET & WORLDWIDE TRADE NETWORK



With our success and wide acceptance by our OEM/ODM customers worldwide, we further expand our services to domestic customers in China and Taiwan.

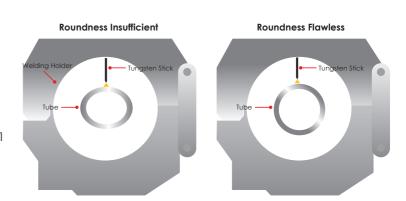
King Lai is constantly improving and upgrading to meet all technological requirements. King Lai's ISO 9001 certification and 3A certification are the results of our dedication to customer service and product quality. With this in mind, we are proud to say "customer success is our success". King Lai supplies to America, Europe, and other major industrial countries worldwide. As a mature manufacturer, we persist in research and development as well as quality management in lowering production cost while generating the highest efficiency. We feature quick delivery, best quality, competitive pricing and excellent service for fitting.

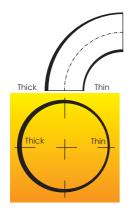
AUTOMATIC WELDING

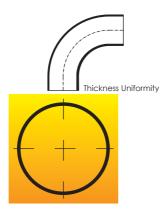
KL raw material applies to ASTM 304 and 316L with good corrosion resistance and good performance in welding. KL is now using automatic welding, like Orbital welding, TIG welding, MIG welding, to replace hand welding, which can improve working environment & efficiency, meanwhile low down labor cost.

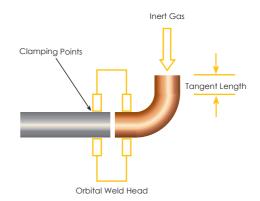
KL tubing automatic welding procedure

1.Long tangent, easy for fixture 2.Fitting roundness, ASME BPE 2012 DT-3-1 3.Fitting wall thickness, ASME BPE 2012 DT-3-1









TIG & Orbital

1. Pulse heating is good for heat sensitive material welding, because high temperature lasts very short period of time and iron condensation is fast.

2.lt's good for thin coil welding, because only small heat input and little space been affected.

3.It's good for welding by one side in shape by both sides, because size of heat input and welding pool can be controlled.

4. High frequency arc shock to refine grain, eliminate porosity, improve joint performance.

5.It's suitable for high-speed welding, and can obtain better work efficiency.

Weakness of hand welding

1. Crack 2. Non-fusion 3. Lack of penetration 4. Bubble 5. Undercut 6. Crater 7. Slag inclusion 8. Burn through 9. Overlap 10. Forming uneven 11. Weld repair

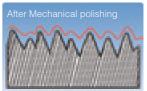
POLISHING PROCESS

KL hygienic tubing using 2B cold rolling coil, special welding procedure guarantee full penetration, and good welding performance complies with sanitary requirements for tubing.

Mechanically Polished (MP)

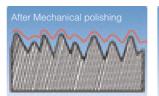
Metal polishing wheel remove metallic contamination, make surface smooth as satin.

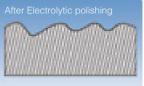




Electro-polished EP

Electro polish process removes spine and sunken, forming a protection layer to increase corrosion resistance. KL process MP before EP, which can guarantee a smooth surface and zero dead room.





Bright Annealing-BA

Tubing temperature need to be cool down below 100°C with hydrogen protection, after reaching 1050°C. It removes inner stress, and on the other hand, generates a passivation layer to increase the corrosion resistance.

Asid Cleaning & Passivated-AP

Pickle or passivation process can remove contaminations on surface, and generates a protection layer to increase corrosion resistance.

KL MP & EP process can guarantee surface roughness requirement of ASME BPE (0.8-0.375), and 0.12 is doable upon request.



Buffing polishing (BP)

It is commonly used to improve the surface brightness of decorative stainless steel industry, despite the Ra value may be better, but many corner crack was observed under the electron microscope, the surface with many impurities and abrasive particles.

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Hygienic Tubes And Fittings

Kinglai is your complete source for specialized fittings and tubing required in food, dairy, beverage, personal care, biotechnology and pharmaceutical process applications. Smooth, crevice-free interiors and secure, self-aligning joints are characteristic for Kinglai Fittings. Each offers superior corrosion-resistance and unmatched service life. Kinglai fittings are designed and manufactured to ensure dimensional accuracy and structural integrity, making them easy to install. Tubing is manufactured to Kinglai's stringent specifications, making it a perfect match for the weld fittings. Choose from a wide range of tube sizes, surface finishes and connect options.

The Sanitary product range offers a wide range of tubes and fittings with an internal surface finish from Ra<0,375µm to Ra<1,6µm. The Sanitary range has tubes and fittings according to DIN, ISO, BS and ASME dimension standards.



Size range of finished sanitary tubes

	ISO			3A			DIN11			DIN11 SERIES			DIN		A	SME B	PE		BS			GB	
NOM. Size	OD	Т	NOM. Size	OD	T	NOM. Size	OD	T	NOM. SIZE	OD	Т	NOM. SIZE	OD	T	NOM. SIZE	OD	Т	NOM. SIZE	OD	T	NOM. SIZE	OD	Т
															1/4"	6.35	0.89						
						DN10	13	1.5	DN10	12	1.0	DN10	12	1.5	3/8"	9.53	0.89						
			1/2"	12.7	1.65	DN15	19	1.5	DN15	18	1.0	DN15	18	1.5	1/2"	12.7	1.65	1/2"	12.7	1.6	1/2"	12.7	1.5
			3/4"	19.05	1.65	DN20	23	1.5	DN20	22	1.0	DN20	22	1.5	3/4"	19.1	1.65	3/4"	19. 05	1.6	3/4"	19. 05	1.5
25	25.0	1.2	1.0"	25.4	1.65	DN25	29	1.5	DN25	28	1.0	DN25	28	1.5	1.0"	25.4	1.65	1.0"	25.4	1.6	1.0"	25.4	1.5
32	31.8	1.2				DN32	35	1.5	DN32	34	1.0	DN32	34	1.5				1.25"	31.8	1.6	1.25"	31.8	1.5
38	38.0	1.2	1.5"	38.1	1.65										1.5"	38.1	1.65	1.5"	38.1	1.6	1.5"	38.1	1.5
						DN40	41	1.5	DN40	40	1.0	DN40	40	1.5									
51	51.0	1.2	2.0"	50.8	1.65	DN50	53	1.5	DN50	52	1.0	DN50	52	1.5	2.0"	50.8	1.65	2.0"	50.8	1.6	2.0"	50.8	1.5
63	63.5	1.6	2.5"	63.5	1.65										2.5"	63.5	1.65	2.5"	63.5	1.6	2.5"	63.5	1.5
						DN65	70	2													2.5"	63.5	2
76	76.1	1.6	3.0"	76.2	1.65										3.0"	76.2	1.65	3.0"	76.2	1.6	3.0"	76.2	1.5
						DN80	85	2													3.0"	76.2	2
																					3.5"	88.9	2
101	101.6	2	4.0"	101.6	2.11	DN100	104	2							4.0"	101.6	2.11	4.0"	101.6	2	4.0"	101.6	2
104	104.0	2				DN125	129	2													4.5"	114.3	2
																		5.0"	129	2			
129	129.0	2	6.0"	152.4	2.77	DN150	154	2							6.0"	152.4	2.77	6.0"	154	2			
204	204.0	2	8.0"	203.2	2.77	DN200	204	2										8.0"	204	2			
																		10.0"	254	2			



Hygienic Clamp: Rated Internal Working Pressure

Nom.Size	@70°F/21°C		@250°F/121°C		@70°	@70°F/21°C		@250°F/121°C		7/21°C	@250°F/121°C	
110111.3126	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
1/2" & 3/4"	1500	103	1200	83					1500	103	1200	83
1.0"&1/2"	500	34	250	1 <i>7</i>	600	41	300	21	1500	103	1200	83
2.0"	450	31	250	1 <i>7</i>	550	38	275	19	1000	69	800	55
21/2"	400	28	200	14	450	31	225	16	1000	69	800	55
3.0"	350	24	150	10	350	24	160	11	1000	69	800	55
4.0"	200	14	125	9	250	17	150	10	1000	69	800	55
5.0"	175	12	100	7								
6.0"	150	10	75	5								
8.0"	100	7	50	3								
10.0"	40	3	30	2								

Sanitary stainless steel pipe rated pressure

OD	WALL	WELD	Max. allowable pressure in bar							
mm	mm	Factor(v)	20℃	100℃	150℃	200°C	250°C	300℃	350℃	400°C
6.35	0.89	1.0	361	303	309	280	260	245	234	222
6.35	1.24	1.0	503	422	456	414	384	362	345	323
9.53	0.71	1.0	192	161	154	139	129	122	116	111
9.53	0.89	1.0	240	202	196	178	165	156	149	141
9.53	1.24	1.0	335	281	284	257	239	225	215	204
12.70	0.71	1.0	144	121	113	103	95	90	86	82
12.70	0.89	1.0	130	151	144	131	121	114	109	104
12.70	1.24	1.0	251	211	206	137	173	164	156	148
12.70	1.65	1.0	334	281	283	257	238	225	215	204
15.88	0.71	1.0	115	97	90	81	75	71	68	65
15.88	0.89	1.0	144	121	114	103	96	90	86	82
15.88	1.24	1.0	201	169	162	147	136	129	122	116
15.88	1.65	1.0	257	224	221	200	186	175	167	159
19.05	0.71	1.0	96	81	74	67	62	59	56	53
19.05	0.89	1.0	120	101	94	65	79	75	71	68
19.05	1.24	1.0	168	141	133	121	112	106	101	96
19.05	1.65	1.0	223	187	181	164	152	144	137	130
19.05	2.11	1.0	285	239	237	215	199	188	179	171
25.40	0.89	1.0	90	76	70	63	59	56	53	50
25.40	1.24	1.0	126	106	98	89	83	76	74	71
25.40	1.65	1.0	167	140	133	120	112	106	101	96
25.40	2.11	1.0	214	179	173	157	145	137	131	124
25.40	2.77	1.0	291	236	233	211	196	185	176	168
31.75	0.89	1.0	72	61	55	50	47	44	42	40
31.75	1.24	1.0	101	64	78	71	66	62	59	56
31.75	1.65	1.0	134	112	105	96	88	83	79	76
31.75	2.11	1.0	171	144	136	123	115	108	103	98
31.75	2.77	1.0	225	188	132	165	153	145	138	131
38.10	0.89	1.0	50	50	46	42	39	37	35	32
38.10	1.24	1.0	84	76	65	59	54	51	49	46





Sanitary stainless steel pipe rated pressure

OD	WALL	WELD	Max. allowable pressure in bar								
mm	mm	Factor(v)	20°C	100℃	150℃	200°C	250°C	300°C	350℃	400℃	
38.10	1.50	1.0	101	85	79	71	66	62	60	57	
38.10	1.65	1.0	111	94	87	79	73	69	66	62	
38.10	2.11	1.0	143	120	112	102	94	89	85	81	
38.10	2.77	1.0	137	157	150	136	125	119	113	108	
44.50	1.24	1.0	72	80	55	50	46	44	42	40	
44.50	1.65	1.0	95	80	74	67	62	59	56	53	
44.50	2.11	1.0	122	102	95	86	80	76	72	69	
44.50	2.77	1.0	160	134	127	115	107	101	96	91	
50.80	1.24	1.0	63	63	48	44	40	38	36	35	
50.80	1.50	1.0	76	64	58	53	49	48	44	42	
50.80	1.65	1.0	84	70	64	56	54	61	49	46	
50.80	2.11	1.0	107	90	83	75	70	66	63	60	
50.80	2.77	1.0	140	118	110	100	93	88	84	79	
50.80	3.40	1.0	172	145	137	124	115	109	104	99	
63.5	1.24	1.0	50	42	38	35	32	30	29	28	
63.5	1.65	1.0	57	56	51	46	43	41	39	37	
63.5	2.11	1.0	86	72	66	68	55	52	50	47	
63.5	2.77	1.0	112	94	87	79	74	69	66	63	
63.5	3.40	1.0	138	116	108	98	91	86	82	78	
76.2	1.65	1.0	55	47	43	39	36	34	32	31	
76.2	2.11	1.0	71	60	55	50	46	43	41	39	
76.2	2.77	1.0	94	79	72	66	64	57	55	52	
76.2	3.40	1.0	115	96	90	81	75	71	68	64	
76.2	4.00	1.0	135	113	106	96	89	84	80	76	
88.9	1.65	1.0	43	40	36	33	31	29	23	25	
88.9	2.11	1.0	61	51	47	42	39	37	35	34	
88.9	2.77	1.0	80	67	62	56	52	49	47	44	
88.9	3.05	1.0	88	74	66	62	57	54	52	49	
88.9	3.40	1.0	98	83	76	69	64	61	58	55	
88.9	4.00	1.0	116	97	90	82	76	72	68	65	
101.5	1.65	1.0	42	35	32	29	27	25	24	23	
101.5	2.11	1.0	53	45	41	37	34	32	31	29	
101.5	2.77	1.0	70	59	54	49	45	43	41	39	
101.5	3.40	1.0	86	72	66	60	56	53	50	48	
101.5	4.00	1.0	101	86	79	71	66	62	60	57	
114.3	1.65	1.0	37	31	28	26	24	22	21	20	
114.3	2.11	1.0	48	40	36	33	30	29	27	26	
114.3	2.77	1.0	52	52	48	43	40	38	36	34	
114.3	3.05	1.0	59	58	53	48	44	42	40	38	
114.3	3.40	1.0	77	64	59	53	50	47	45	42	
114.3	4.00	1.0	90	76	70	63	59	55	53	50	
127.0	1.65	1.0	33	28	25	23	21	20	19	18	
127.0	2.11	1.0	43	36	32	29	27	26	25	23	
127.0	2.77	1.0	56	47	43	39	36	34	32	31	
127.0	3.40	1.0	69	58	53	48	44	42	40	38	
127.0	4.00	1.0	81	68	62	57	53	50	47	45	
139.7	1.65	1.0	30	26	23	21	19	18	17	17	



Sanitary stainless steel pipe rated pressure

OD	WALL	WELD	Max. allowable pressure in bar								
mm	mm	Factor(v)	20℃	100℃	150°C	200℃	250℃	300°C	350°C	400℃	
139.7	2.11	1.0	39	33	29	27	25	23	22	21	
139.7	2.77	1.0	51	43	39	35	33	31	29	28	
139.7	3.40	1.0	63	53	48	43	40	38	36	34	
139.7	4.00	1.0	74	62	57	51	48	45	43	41	
152.4	1.65	1.0	28	23	21	19	18	17	16	15	
152.4	2.11	1.0	36	30	27	24	23	21	20	19	
152.4	2.77	1.0	47	39	36	32	30	26	27	26	
152.4	3.40	1.0	57	48	44	40	37	35	33	32	
152.4	4.00	1.0	63	57	52	47	44	41	39	37	

Hygienic Union

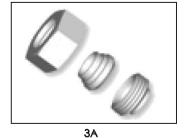




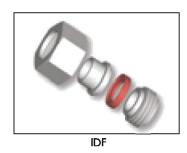












Material features of union ring seals

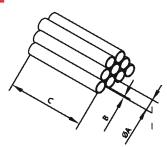
FEATURE	EPDM	NBR	Viton	Silicone	TEFLON
Temperature Range	-48~135℃ -55~275℉	-40~120℃ -40~248℉	-29~204℃ -20~400℉	-62~232℃ -80~450℉	-40~232℃ -40~450℉
Acid Resistance	Good-Excellent	Good	Good	Good	Good-Excellent
Alkali Resistance	Good-Excellent	Good	Poor-Good	Poo r -Fair	Good-Excellent
Gasoline Resistance	Poor-Fair	Good-Excellent	Good-Excellent	Good	Good-Excellent
Diesel Resistance	Good	Good	Good-Excellent	Good	Good-Excellent
Abrasion Resistance	Good-Excellent	Good	Good	Good-Excellent	Good-Excellent
Compression Set	Fair	Good	Good-Excellent	Good-Excellent	Fair

[★] Good-Excellent > Good > Poor-Good > Fair > Poor-Fair

1

Hygienic Tubes

No.	Nom.Size	A	3	C	
1480001XX000012	10	12	1.5	6000	
1480001XX000013	10	13	1.5	6000	
1480001XX000018	15	18	1.5	6000	
1480001XX000019	15	19	1.5	6000	
1480001XX000022	20	22	1.5	6000	
1480001XX000023	20	23	1.5	6000	
1480001XX000028	25	28	1.5	6000	
1480001XX000029	25	29	1.5	6000	
1480001XX000034	32	34	1.5	6000	
1480001XX000035	32	35	1.5	6000	
1480001XX000040	40	40	1.5	6000	
1480001XX000041	40	4 1	1.5	6000	
1480001XX000052	50	52	1.5	6000	
1480001XX000053	50	53	1.5	6000	
1480001XX000065	60	65	2.0	6000	
1480001XX000070	65	70	2.0	6000	
1480001XX000085	80	85	2.0	6000	
1480001XX000104	100	104	2.0	6000	
1480001XX000129	125	129	2.0	6000	
1480001XX000154	150	154	2.0	6000	
1480001XX000204	200	204	2.0	6000	



Remark: XX Polishing grade

Polishing grade

QQ: External surface finish average Ra≤0.8µm , Internal bright anneal Ra≤0.8µm

QG: External surface finish Ra≤0.8µm, Internal surface finish Ra≤0.8µm

GG: External surface finish Ra≤0.8µm, Internal surface finish Ra≤0.8µm

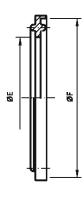
HG: External surface finish Ra≤0.8µm, Internal surface finish Ra≤0.5µm

4G: External surface finish Ra≤0.8µm, Internal surface finish Ra≤0.375µm electro polish



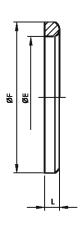
Seal Ring

No.	Nom.Size	E	F	
1415002-000010	10	10.2	34.0	
1415002-000015	15	1 6.2	34.0	
1415002-000020	20	20.2	34.0	
1415002-000025	25	26.2	50.5	
1415002-000032	32	32.2	50.5	
1415002-000040	40	38.2	50.5	
1415002-000050	50	50.2	64.0	
1415002-000065	65	66.2	91.0	
1415002-000080	80	81.2	106.0	
1415002-000100	100	100.2	119.0	
1415002-000125	1 25	125.2	155.0	
1415002-000150	150	150.2	183.0	



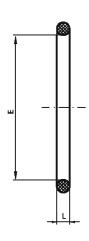
O-Rina

O-King					
No.	Nom.Size	É	F	L	
1415001-000010	10	12.0	20.0	4.5	
1415001-000015	15	18.0	26.0	4.5	
1415001-000020	20	23.0	33.0	4.5	
1415001-000025	25	30.0	40.0	5.0	
1415001-000032	32	36.0	46.0	5.0	
1415001-000040	40	42.0	52.0	5.0	
1415001-000050	50	54.0	64.0	5.0	
1415001-000065	65	71.0	8 1. 0	5.0	
1415001-000080	80	85.0	95.0	5.0	
1415001-000100	100	104.0	114.0	6.0	
1415001-000125	125	130.0	142.0	7.0	
1415001-000150	150	155.0	1 67.0	7.0	



DIN11864-R Seal Ring

Pilati ioo i ik oodi ikiii3	9		
No.	Nom.Size	Œ	L
5415001-000010	10	12.0	3.5
5415001-000015	15	18.0	3.5
5415001-000020	20	22.0	3.5
5415001-000025	25	28.0	3.5
5415001-000032	32	34.0	5.0
5415001-000040	40	40.0	5.0
5415001-000050	50	52.0	5.0
5415001-000065	65	68.0	5.0
5415001-000080	80	83.0	5.0
5415001-000100	100	102.0	5.0
5415001-000125	125	1 27.0	5.0
5415001-000150	150	152.0	5.0

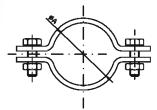






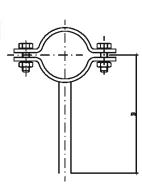
Tube holder without shaft

No.	Nom.Size	A
1424005-000010	DN10	12.0
1424005-000015	DN15	18.0
1424005-000020	DN20	22.0
1424005-000025	DN25	28.0
1424005-000032	DN32	34.0
1424005-000040	DN40	40.0
1424005-000050	DN50	52.0
1424005-000065	DN65	70.0
1424005-000080	DN80	85.0
1424005-000100	DN100	104.0
1424005-000125	DN125	129.0
1424005-000150	DN150	154.0
1424005-000200	DN200	204.0



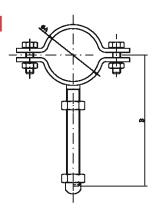
Tube holder with long shaft

Tobe Holder will living stidil				
No.	Nom.Size	A	В	
1424006-000010	DN10	12.0	64.0	
1424006-000015	DN15	18.0	67.0	
1424006-000020	DN20	22.0	69.0	
1424006-000025	DN25	28.0	72.0	
1424006-000032	DN32	34.0	75.0	
1424006-000040	DN40	40.0	78.0	
1424006-000050	DN50	52.0	84.0	
1424006-000065	DN65	70.0	93.0	
1424006-000080	DN80	85.0	100.5	
1424006-000100	DN100	104.0	110.0	
1424006-000125	DN125	129.0	140.0	
1424006-000150	DN150	15 4. 0	180.0	
1424006-000200	DN200	204.0	241.0	



Tube holder with male attachment

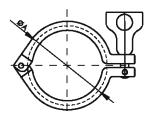
No.	Nom.Size	A	В
1424007-000010	DN10	12.0	74.0
1424007-000015	DN15	18.0	77.0
1424007-000020	DN20	22.0	79.0
1424007-000025	DN25	28.0	102.0
1424007-000032	DN32	34.0	105.0
1424007-000040	DN40	40.0	108.0
1424007-000050	DN50	52.0	114.0
1424007-000065	DN65	70.0	123.0
1424007-000080	DN80	85.0	130.5
1424007-000100	DN100	104.0	140.0
1424007-000125	DN125	129.0	168.5
1424007-000150	DN150	154.0	202.0





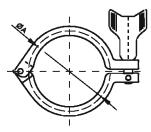
13MHH Clamp

Nom.Size	A	
1/2"	28.6	
3/4"	28.6	
1.0"	53.9	
1 <i>.5</i> "	53.9	
2.0"	67.4	
2.5"	80.9	
3.0"	94.4	
4.0"	122.4	
6.0"	170.4	
8.0"	221.2	
10.0"	272.0	
	1/2" 3/4" 1.0" 1.5" 2.0" 2.5" 3.0" 4.0" 6.0"	1/2" 28.6 3/4" 28.6 1.0" 53.9 1.5" 53.9 2.0" 67.4 2.5" 80.9 3.0" 94.4 4.0" 122.4 6.0" 170.4 8.0" 221.2



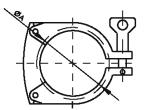
12MUU Clamp

13MHH Clamp			
No.	Nom.Size	A	
1513001-000025	1 /2 "	28.6	
1513001-000025	3/4"	28.6	
1513001-000051	1.0"	53.9	
1513001-000051	1.5"	53.9	
1513001-000064	2.0"	67.4	
1513001-000078	2.5"	80.9	
151300 1- 00009 1	3.0"	94.4	
1513001-000119	4.0"	1 22.4	
1513001-000167	6.0"	1 70.4	
1513001-000218	8.0"	221.2	
1513001-000268	10.0"	272.0	



13MHH3 Clamp

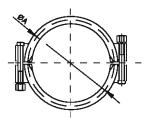
No.	Nom.Size	A
1513003-000051	1.0"	53.9
1513003-000051	1.5"	53.9
1513003-000064	2.0"	67.4
1513003-000078	2.5"	80.9
1513003-000091	3.0"	94.4
1513003-000119	4.0"	1 22.4





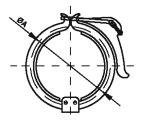
13MHP Clamp

No.	Nom.Size	Α
1513002-000025	1/2"	28.6
1513002-000025	3/4"	28.6
1513002-000051	1.0"	52.0
1513002-000051	1.5"	52.0
1513002-000064	2.0"	65.5
1513002-000078	2.5"	79.0
1513002-000091	3.0"	92.5
1513002-000119	4.0"	120.0
1513002-000167	6.0"	170.4



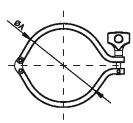
13MHL Clamp

	(0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1			
10	No.	Nom.Size	A	
	1513004-000051	1.0"	53.9	
	1513004-000051	1.5"	53.9	
	1513004-000064	2.0"	67.4	
	1513004-000078	2.5"	80.9	
	1513004-000091	3.0"	94.4	
	1513004-000119	4.0"	1 22.4	



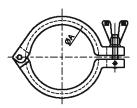
TC Clamp

ic clamp					
No.	Nom.Size	A			
1513017-000051	1.0"	53.4			
1513017-000051	1.5"	53.4			
1513017-000064	2.0"	66.0			
1513017-000078	2.5"	81.3			
1513017-000091	3.0"	94.0			
1513017-000119	4.0"	122.0			
1513017-000167	6.0"	171.2			
1513017-000218	8.0"	222.0			
1513017-000268	10.0"	274.0			



13MHH Clamp

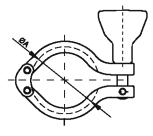
No.	Nom.Size	A		
1513034-10025	1/2"-3/4"	28		
1513034-10034	DN10-DN20	38.28		
1513034-10051	1"-1.5"	54		
1513034-10064	2"	67		
1513034-10078	2.5"	80.9		
1513034-10091	3"	94.4		
1513034-10106	3.5"	110		
1513034-10119	4"	122.4		
1513034-10130	4.5"	135		
1513034-10167	6"	1 71.24		





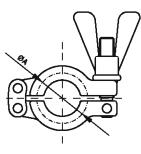
TC Clamp

No.	Nom.Size	A
1213007-000100	1.0"	53.9
1213007-000150	1 <i>.5</i> "	53.9
1213007-000200	2.0"	67.4
1213007-000250	2.5"	80.9
1213007-000300	3.0"	94.4
1213007-000400	4.0"	122.4



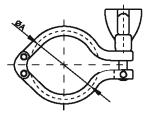
TC Clamp

No.	Nom.Size	A	
1513028-000025	1/2"	28.0	
1513028-000025	3/4"	28.0	
1513028-000051	1.0"	53.9	
1513028-000051	1 <i>.5</i> "	53.9	
1513028-000064	2.0"	67 <i>.</i> 4	
1513028-000078	2.5"	80.9	
1513028-000091	3.0"	94.4	
1513028-000119	4.0"	122.0	



TC Clamp

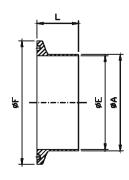
No.	Nom.Size	A
1213001-000100	1.0"	53.9
1213001-000150	1. 5 "	53.9
1213001-000200	2.0"	67.4
1213001-000250	2.5"	80.9
1213001-000300	3.0"	94.4
1213001-000400	4.0"	122.4





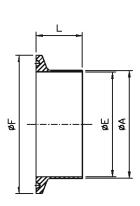
DIN11852 Clamp Ferrule

No.	Nom.Size	A	E	<u> </u>	L
1414A05-000025	25	29	26	50.5	13.0
1414A05-000032	32	35	32	50.5	13.0
141 4A05-000040	40	4 1	38	50.5	13.0
141 4A05-000050	50	53	50	64.0	13.0
141 4A05-000065	65	70	66	91.0	13.0
141 4A05-000080	80	85	81	106.0	13.0
141 4 A05-000100	100	104	100	119.0	13.0



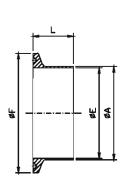
DIN11852 Clamp Ferrule

No.	Nom.Size	A	E	F	L
1414A06-000010	10	13	10	34.0	38.0
1414A06-000015	15	1 9	16	34.0	38.0
1414A06-000020	20	23	20	34.0	38.0
1414A06-000025	25	29	26	50.5	38.0
1414A06-000032	32	35	32	50.5	38.0
1414A06-000040	40	41	38	50.5	38.0
1414A06-000050	50	53	50	64.0	38.0
1414A06-000065	65	70	66	91.0	38.0
1414A06-000080	80	85	81	106.0	38.0
1414A06-000100	100	104	100	119.0	38.0



DIN11852 Clamp Ferrule

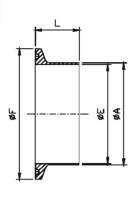
No.	Nom.Size	A	E	F	L	
1414001-000010	10	12	90	34.0	18.0	
1414001-000015	15	18	15	34.0	18.0	
1414001-000020	20	22	19	34.0	18.0	
1414001-000025	25	28	25	50.5	21.5	
1414001-000032	32	34	31	50.5	21.5	
1414001-000040	40	40	37	50.5	21.5	
1414001-000050	50	52	49	64.0	21.5	





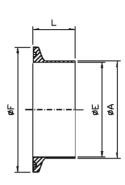
DIN11852 Clamp Ferrule

No.	Nom.Size	A	E	(F)	L	
1414A04-000010	10	13	10	34.0	35.0	
1414A04-000015	15	19	16	34.0	35.0	
1414A04-000020	20	23	20	34.0	35.0	
1414A04-000025	25	29	26	50.5	35.0	
1414A04-000032	32	35	32	50.5	40.0	
1414A04-000040	40	41	38	50.5	40.0	
1414A04-000050	50	53	50	64.0	40.0	
1414A04-000065	65	70	66	91.0	50.0	
1414A04-000080	80	85	81	106.0	50.0	
1414A04-000100	100	104	100	119.0	50.0	



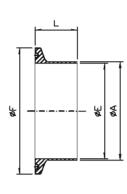
DIN11852 Clamp Ferrule

itti iooz ciallip it	211010				
No.	Nom.Size	A	E	F	L
414A01-000010	10	13	10	34.0	18.0
I414A01-000015	15	19	16	34.0	18.0
414A01-000020	20	23	20	34.0	18.0
1414A01-000025	25	29	26	50.5	21.5
1414A01-000032	32	35	32	50.5	21.5
414A01-000040	40	41	38	50.5	21.5
1414A01-000050	50	53	50	64.0	21.5
1414A01-000065	65	70	66	91.0	28.0
1414A01-000080	80	85	81	106.0	28.0
1414A01-000100	100	104	100	119.0	28.0
1414A01-000125	125	129	125	155.0	28.0
1414A01-000150	150	154	150	183.0	28.0
1414A01-000200	200	204	200	233.5	28.0



DIN11852 Clamp Ferrule

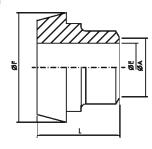
DIN I 1852 Clamp re	rruie					
No.	Nom.Size	A	E	F	L	
1414A02-000010	10	13	10	34.0	36.0	
1414A02-000015	15	19	16	34.0	36.0	
1414A02-000020	20	23	20	34.0	36.0	
1414A02-000025	25	29	26	50.5	36.0	
1414A02-000032	32	35	32	50.5	36.0	
1414A02-000040	40	41	38	50.5	36.0	
1414A02-000050	50	53	50	64.0	36.0	
1414A02-000065	65	70	66	91.0	48.0	
1414A02-000080	80	85	81	106.0	48.0	
1414A02-000100	100	104	100	119.0	48.0	
1414A02-000125	125	129	125	155.0	66.0	
1414A02-000150	150	154	150	183.0	66.0	
1414A02-000200	200	204	200	233.5	66.0	





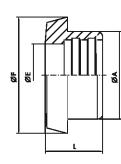
DIN11852 Liner

No.	Nom.Size	Δ	E	F	1	
1410001-000010	10	12.0	10.0	22.0	17.0	
1410001-000015	15	18.0	16.0	28.0	17.0	
1410001-000020	20	22.0	20.0	36.0	18.0	
1410001-000025	25	28.0	26.0	44.0	22.0	
1410001-000032	32	34.0	32.0	50.0	25.0	
1410001-000040	40	40.0	38.0	56.0	26.0	
1410001-000050	50	50.0	50.0	68.0	28.0	
1410001-000065	65	65.0	66.0	86.0	32.0	
1410001-000080	80	80.0	81.0	100.0	37.0	
1410001-000100	100	101.6	100.0	121.0	44.0	
1410001-000125	125	127.0	125.0	150.0	34.0	
1410001-000150	150	152.0	150.0	176.0	37.0	



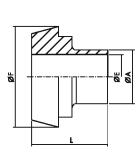
DIN11852 Liner

IT I I USE LINE					
No.	Nom.Size	A	E	F	L
1410002-000010	10	18.0	10.0	22.5	17.0
1410002-000015	15	24.0	16.0	28.5	17.0
1410002-000020	20	30.0	20.0	36.5	18.0
1410002-000025	25	35.0	26.0	44.0	22.0
1410002-000032	32	41.0	32.0	50.0	25.0
1410002-000040	40	48.0	38.0	56.0	26.0
1410002-000050	50	61.0	50.0	68.5	28.0
1410002-000065	65	79.0	66.0	86.0	32.0
1410002-000080	80	93.0	81.0	100.0	37.0
1410002-000100	100	114.0	100.0	121.0	44.0



DIN11852 Liner

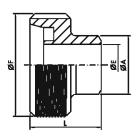
No.	Nom.Size	A	E	Ē	L
1410015-000010	10	12.0	9.0	22.0	17.0
1410015-000015	15	18.0	15.0	28.0	17.0
1410015-000020	20	22.0	19.0	36.0	18.0
1410015-000025	25	28.0	25.0	44.0	22.0
1410015-000032	32	34.0	31.0	50.0	25.0
1410015-000040	40	40.0	37.0	56.0	26.0
1410015-000050	50	52.0	49.0	68.0	28.0





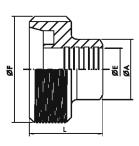
DIN11852 Male part

Distribut Maic par	in 1002 maic part						
No.	Nom.Size	A	E	F	L		
1409001-000010	10	15.0	10.0	RD 28x1/8"	21.0		
1409001-000015	15	21.0	16.0	RD 34x1/8"	21.0		
1409001-000020	20	25.0	20.0	RD 44x1/6"	24.0		
1409001-000025	25	31.0	26.0	RD 52x1/6"	29.0		
1409001-000032	32	37.0	32.0	RD 58x1/6"	32.0		
1409001-000040	40	43.0	38.0	RD 65x1/6"	33.0		
1409001-000050	50	55.0	50.0	RD 78x1/6"	35.0		
1409001-000065	65	72.0	66.0	RD 95x1/6"	40.0		
1409001-000080	80	87.0	81.0	RD110x1/4"	45.0		
1409001-000100	100	106.0	100.0	RD130x1/4"	54.0		
1409001-000125	125	132.0	125.0	RD160x1/4"	46.0		
1409001-000150	150	157.0	150.0	RD110x1/4"	50.0		



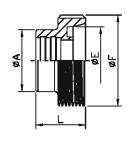
DIN11852 Male part

iid i 1632 Maie bai	•					
No.	Nom.Size	A	13	. I F I	L,	
1409002-000010	10	18.0	10.0	RD 28x1/8"	21.0	
1409002-000015	15	24.0	16.0	RD 34x1/8"	21.0	
1409002-000020	20	30.0	20.0	RD 44x1/6"	24.0	
1409002-000025	25	35.0	26.0	RD 52x1/6"	29.0	
1409002-000032	32	41.0	32.0	RD 58x1/6"	32.0	
1409002-000040	40	48.0	38.0	RD 65x1/6"	33.0	
1409002-000050	50	61.0	50.0	RD 78x1/6"	35.0	
1409002-000065	65	79.0	66.0	RD 95x1/6"	40.0	
1409002-000080	80	93.0	81.0	RD110x1/4"	45.0	
1409002-000100	100	114.0	100.0	RD130x1/4"	54.0	
1409002-000101	101.6	112.0	99.0	RD130x1/4"	54.0	



DIN11852 Male part

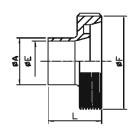
No.	Nom.Size	A	3	Ē	Ţ
409005-000100	1.0"	35.0	22. 1	RD 52x1/6"	29.0
409005-000150	1.5"	48.0	34.8	RD 65x1/6"	33.0
409005-000200	2.0"	61.0	47.6	RD 78x1/6"	35.0
409005-000250	2.5"	79.0	60.2	RD 95x1/6"	40.0
409005-000300	3.0"	93.0	72.9	RD110x1/4"	45.0
409005-000400	4.0"	114.0	97.4	RD130x1/4"	54.0





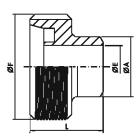
DIN11852 Male part

No.	Nom.Size	A	Ē		L	
1409007-000025	25	25.65	22,2	RD 52x1/6"	29.0	
1409007-000032	32	32.05	28.5	RD 65x1/6"	32.0	
1409007-000040	40	38.35	34.9	RD 78x1/6"	33.0	
1409007-000050	50	51.05	47.6	RD 95x1/6"	35.0	
1409007-000065	65	63.75	60.3	RD 95x1/6"	40.0	
1409007-000075	75	76.45	73.0	RD110x1/4"	45.0	
1409007-000100	100	101.85	97.6	RD130x1/4"	54.0	
1409007-000150	150	152.65	148.4	RD110x1/4"	50.0	



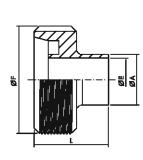
DIN11852 Male part

Ditti iouz maic pai						
No.	Nom.Size	A	E	F	L	
1409008-000015	15	18.0	15.0	RD34x1/8"	21.0	
1409008-000020	20	22.0	19.0	RD44x1/6"	24.0	
1409008-000025	25	28.0	25.0	RD52x1/6"	29.0	
1409008-000032	32	34.0	31.0	RD58x1/6"	32.0	
1409008-000040	40	40.0	37.0	RD65x1/6"	33.0	
1409008-000050	50	52.0	49.0	RD78x1/6"	35.0	



DIN11852 Male part

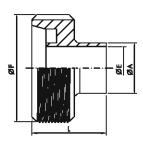
No.	Nom.Size	A	E	F.	L
1409020-000010	1.0"	25.4	22.2	RD 52x1/6"	29.0
1409020-000015	1.5"	38.1	34.9	RD 65x1/6"	33.0
1409020-000020	2.0"	50.8	47.6	RD 78x1/6"	35.0
1409020-000025	2.5"	63.5	60.3	RD 95x1/6"	40.0
1409020-000300	3.0"	76.2	73.0	RD110x1/4"	45.0
1409020-000400	4.0"	101.6	97.6	RD130x1/4"	54.0
1409020-000600	6.0"	152.4	148.4	RD190x1/4"	50.0





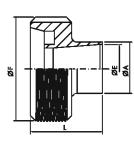
DIN11852 Male part

DIM I 1932 Male pai	1.1					
No.	Nom.Size	A	E	G. C. C.	L	
1409022-000010	10	13.0	10.0	RD 28-1/8"	21.0	
1409022-000015	15	19.0	16.0	RD 34-1/8"	21.0	
1409022-000020	20	23.0	20.0	RD 44-1/6"	24.0	
1409022-000025	25	29.0	26.0	RD 52-1/6"	29.0	
1409022-000032	32	35.0	32.0	RD 58-1/6"	32.0	
1409022-000040	40	41.0	38.0	RD 65-1/6"	33.0	
1409022-000050	50	53.0	50.0	RD 78-1/6"	35.0	
1409022-000060	60	61.0	57.0	RD 85-1/6"	36.0	
1409022-000065	65	70.0	66.0	RD 95-1/6"	40.0	
1409022-000080	80	85.0	81.0	RD110-1/4"	45.0	
1409022-000090	90	93.0	89.0	RD120-1/4"	54.0	
1409022-000100	100	104.0	100.0	RD130-1/4"	54.0	
1409022-000125	125	129.0	125.0	RD160-1/4"	46.0	
1409022-000150	150	154.0	150.0	RD190-1/4"	50.0	



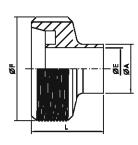
DIN11852 Male part

M I 1832 Male pa					
No.	Nom.Size	Α	F	L	F
1409026-000010	10	17.2	14.0	RD 28x1/8"	21.0
1409026-000015	15	21.3	18.1	RD 34x1/8"	21.0
1409026-000020	20	26.9	23.7	RD 44x1/6"	24.0
1409026-000025	25	33.7	29.7	RD 52x1/6"	29.0
1409026-000032	32	42.4	38.4	RD 58x1/6"	32.0
1409026-000040	40	48.3	44.3	RD 65x1/6"	33.0
1409026-000050	50	60.3	56.3	RD 78x1/6"	35.0
1409026-000065	65	76.1	72.1	RD 95x1/6"	40.0
1409026-000080	80	88.9	84.9	RD110x1/4"	45.0
1409026-000100	100	114.3	1 10.3	RD130x1/4"	54.0



DIN11852 Male part

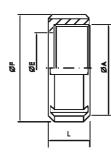
iii i i i i i i i i i i i i i i i i i	411				
No.	Nom.Size	A	E	F	L
1409027-000100	1.0"	25.4	23.0	RD 52x1/6"	29.0
1409027-000125	1.25"	31.8	29.4	RD 58x1/6"	32.0
1409027-000150	1.5"	38. 1	35. 1	RD 65x1/6"	33.0
1409027-000200	2.0"	50.8	47.8	RD 78x1/6"	35.0
1409027-000250	2.5"	63.5	60.5	RD 95x1/6"	40.0
1409027-000300	3.0"	76. 1	73 .1	RD110x1/4"	45.0
1409027-000300	4.0"	101.6	97.6	RD130x1/4"	54.0





DIN11852 Nut

No.	Nom.Size	A	E	F	L	
1408001-000010	10	RD28x1/8"	19.0	38.0	18.0	
1408001-000015	15	RD34x1/8"	25.0	44.0	18.0	
1408001-000020	20	RD44x1/6"	31.0	54.0	20.0	
1408001-000025	25	RD52x1/6"	36.0	63.0	21.0	
1408001-000032	32	RD58x1/6"	42.5	70.0	21.0	
1408001-000040	40	RD65x1/6"	49.0	78.0	21.0	
1408001-000050	50	RD78x1/6"	62.0	92.0	22.0	
1408001-000060	60	RD85x1/6"	70.0	99.0	22.0	
1408001-000065	65	RD95x1/6"	80.0	112.0	25.0	
1408001-000075	75	RD104x1/6"	88.0	119.0	25.0	
1408001-000080	80	RD110x1/4"	94.0	127.0	29.0	
1408001-000100	100	RD130x1/4"	115.0	148.0	31.0	
1408001-000125	125	RD160x1/4"	138.0	178.0	35.0	
1408001-000150	150	RD190x1/4"	164.0	210.0	40.0	



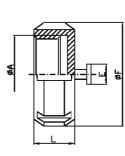
DIN11852 Nut

D.11111002 1101					
No.	Nom.Size	A	F	L	
1408003-000010	10	RD28x1/8"	38.0	18.0	
1408003-000015	15	RD34x1/8"	44.0	18.0	
1408003-000020	20	RD44x1/6"	54.0	20.0	
1408003-000025	25	RD52x1/6"	63.0	21.0	
1408003-000032	32	RD58x1/6"	70.0	21.0	
1408003-000040	40	RD65x1/6"	78.0	21.0	
1408003-000050	50	RD78x1/6"	92.0	22.0	
1408003-000065	65	RD95x1/6"	112.0	25.0	
1408003-000080	80	RD110x1/4"	127.0	30.0	
1408003-000100	100	RD130x1/4"	148.0	31.0	
1408003-000125	125	RD160x1/4"	178.0	35.0	
1408003-000150	150	RD190x1/4"	210.0	40.0	



DIN11852 Nut

J						
No.	Nom.Size	A	=	F	L	
1408008-000010	10	RD28x1/8"	10.0	38.0	18.0	
1408008-000015	15	RD34x1/8"	10.0	44.0	18.0	
1408008-000020	20	RD44x1/6"	10.0	54.0	20.0	
1408008-000025	25	RD52x1/6"	10.0	63.0	21.0	
1408008-000032	32	RD58x1/6"	10.0	70.0	21.0	
1408008-000040	40	RD65x1/6"	10.0	78.0	21.0	
1408008-000050	50	RD78x1/6"	10.0	92.0	22.0	
1408008-000065	65	RD95x1/6"	10.0	112.0	25.0	
1408008-000080	80	RD110x1/4"	10.0	127.0	30.0	
1408008-000100	100	RD130x1/4"	10.0	148.0	31.0	
1408008-000125	125	RD160x1/4"	10.0	178.0	35.0	
1408008-000150	150	RD190x1/4"	10.0	210.0	40.0	





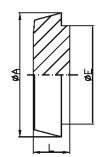


DIN11852 End Cap With Chain

No.	Nom.Size	Α	E	F	L	
1408006-000010	10	RD28x1/8"	10.0	38.0	18.0	
1408006-000015	15	RD34x1/8"	10.0	44.0	18.0	
1408006-000020	20	RD44x1/6"	10.0	54.0	20.0	
1408006-000025	25	RD52x1/6"	10.0	63.0	21.0	
1408006-000032	32	RD58x1/6"	10.0	70.0	21.0	
1408006-000040	40	RD65x1/6"	10.0	78.0	21.0	
1408006-000050	50	RD78x1/6"	10.0	92.0	22.0	
1408006-000065	65	RD95x1/6"	10.0	112.0	25.0	
1408006-000080	80	RD110x1/4"	10.0	127.0	30.0	
1408006-000100	100	RD130x1/4"	10.0	148.0	31.0	
1408006-000125	125	RD160x1/4"	10.0	178.0	35.0	
1408006-000150	150	RD190x1/4"	10.0	210.0	40.0	

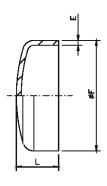
DIN11852 Blank

DINTI 1032 DIGITA					
No.	Nom.Size	A	Ε	L	
1416001-000010	10	22.5	18.0	9.0	
1416001-000015	15	28.5	24.0	9.0	
1416001-000020	20	36.5	30.0	11.0	
1416001-000025	25	44.0	35.0	13.0	
1416001-000032	32	50.0	41.0	13.0	
1416001-000040	40	56.0	48.0	13.0	
1416001-000050	50	68.5	61.0	14.0	
1416001-000065	65	86.0	79.0	16.0	
1416001-000075	75	93.0	86.0	16.0	
1416001-000080	80	100.0	93.0	16.0	
1416001-000100	100	125.0	114.0	20.0	
1416001-000125	125	150.0	137.0	22.0	
1416001-000150	150	176.0	163.0	24.0	



DIN11852 Blank End Cap

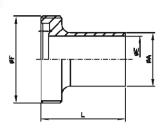
No.	Nom.Size			L
1416004-000025	25	1.5	28.0	11.5
1416004-000032	32	1.5	34.0	13.0
1416004-000040	40	1.5	40.0	14.0
1416004-000050	50	1.5	52.0	17.0
1416004-000065	65	2.0	70.0	21.5
1416004-000080	80	2.0	85.0	24.5
1416004-000100	100	2.0	104.0	28.5
1416004-000125	125	2.0	129.0	33.0
1416004-000150	150	2.0	154.0	38.0
1416004-000200	200	2.0	204.0	48.0
1416004-000300	300	3.0	307.0	87.0





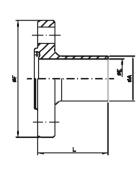
DIN11864-1-GS-A

No.	Nom.\$ize	A	E	F	L	
5409A01-000010	10	13.0	10.0	RD28x1/8"	41.0	
5409A01-000015	15	19.0	16.0	RD34x1/8"	41.0	
5409A01-000020	20	23.0	20.0	RD44x1/6"	43.0	
5409A01-000025	25	29.0	26.0	RD52x1/6"	43.0	
5409A01-000032	32	35.0	32.0	RD58x1/6"	48.0	
5409A01-000040	40	41.0	38.0	RD65x1/6"	48.0	
5409A01-000050	50	53.0	50.0	RD78x1/6"	48.0	
5409A01-000065	65	70.0	66.0	RD95x1/6"	60.0	
5409A01-000080	80	85.0	81.0	RD110x1/4"	64.0	
5409A01-000100	100	104.0	100.0	RD130x1/4"	64.0	



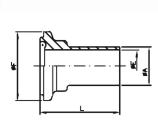
DIN11864-2-NF-A-DIN

	DIN 1004-2-NF-A-DI	N					
j	No.	Nom.Size	A	E	F	L	
	5414A01-000010	10	13.0	10.0	54.0	41.5	
	5414A01-000015	15	19.0	16.0	59.0	41.5	
	5414A01-000020	20	23.0	20.0	64.0	41.5	
	5414A01-000025	25	29.0	26.0	70.0	41.5	
	5414A01-000032	32	35.0	32.0	76.0	46.5	
	5414A01-000040	40	41.0	38.0	82.0	46.5	
	5414A01-000050	50	53.0	50.0	94.0	46.5	
	5414A01-000065	65	70.0	66.0	113.0	55.5	
	5414A01-000080	80	85.0	81.0	133.0	59.5	
	5414A01-000100	100	104.0	100.0	159.0	59.5	
	5414A01-000125	125	129.0	125.0	183.0	61.5	
	5414A01-000150	150	154.0	150.0	213.0	61.5	



DIN11864-3-NKS-A-DIN

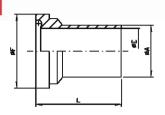
No.	Nom.Size	A	=	F	L	
5414A03-000010	10	13.0	10.0	34.0	39.5	
5414A03-000015	15	19.0	16.0	34.0	39.5	
5414A03-000020	20	23.0	20.0	50.5	39.5	
5414A03-000025	25	29.0	26.0	50.5	40.5	
5414A03-000032	32	35.0	32.0	50.5	45.5	
5414A03-000040	40	41.0	38.0	64.0	45.5	
5414A03-000050	50	53.0	50.0	77.0	46.0	
5414A03-000065	65	70.0	66.0	91.0	58.0	
5414A03-000080	80	85.0	81.0	106.0	60.0	
5414A03-000100	100	104.0	100.0	130.0	61.5	





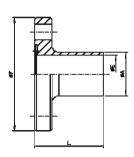
DIN11864-1-BS-A

No.	Nom.Size	A	E	F	L	
5410A01-000010	10	13.0	10.0	RD28x1/8"	41.0	
5410A01-000015	15	19.0	16.0	RD34x1/8"	41.0	
5410A01-000020	20	23.0	20.0	RD44x1/6"	43.0	
5410A01-000025	25	29.0	26.0	RD52x1/6"	43.0	
5410A01-000032	32	35.0	32.0	RD58x1/6"	48.0	
5410A01-000040	40	41.0	38.0	RD65x1/6"	48.0	
5410A01-000050	50	53.0	50.0	RD78x1/6"	48.0	
5410A01-000065	65	70.0	66.0	RD95x1/6"	60.0	
5410A01-000080	80	85.0	81.0	RD110x1/4"	64.0	
5410A01-000100	100	104.0	100.0	RD130x1/4"	64.0	



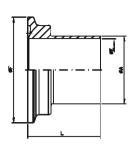
DIN11864-2-BF-A-DIN

DIN 1 1004-2-BF-A-DI	N					
No.	Nom.Size	A	E	F	L	
5414A02-000010	10	13.0	10.0	54.0	40.0	
5414A02-000015	15	19.0	16.0	59.0	40.0	
5414A02-000020	20	23.0	20.0	64.0	40.0	
5414A02-000025	25	29.0	26.0	70.0	40.0	
5414A02-000032	32	35.0	32.0	76.0	45.0	
5414A02-000040	40	41.0	38.0	82.0	45.0	
5 4 14 A 02-000050	50	53.0	50.0	94.0	45.0	
5414A02-000065	65	70.0	66.0	113.0	54.0	
5414A02-000080	80	85.0	81.0	133.0	58.0	
5414A02-000100	100	104.0	100.0	159.0	58.0	
5414A02-000125	125	129.0	125.0	183.0	60.0	
5414A02-000150	150	154.0	150.0	213.0	60.0	



DIN11864-3-BKS-A-DIN

DII	4 I 1004-2-DV2-V-I	DIN					
	No.	Nom.Size	A	E	F	Ĺ	
5	414A03-000010	10	13.0	10.0	34.0	38.0	
5	414A03-000015	15	19.0	16.0	34.0	38.0	
5	414A03-000020	20	23.0	20.0	50.5	38.0	
5	414A03-000025	25	29.0	26.0	50.5	38.5	
5	414A03-000032	32	35.0	32.0	50.5	44.0	
5	414A03-000040	40	41.0	38.0	64.0	44.0	
5	414A03-000050	50	53.0	50.0	77.0	44.5	
5	414A03-000065	65	70.0	66.0	91.0	58.5	
5	414A03-000080	80	85.0	81.0	106.0	58.5	
5	414A03-000100	100	104.0	100.0	130.0	60.0	



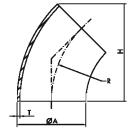




DIN11852 Automatic Tube Weld: 45° Elbow, Short

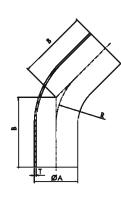
No.	Nom.Size	AxT		R
1406001-000015	15	18.0x1.5	30.4	35.0
1406001-000020	20	22.0x1.5	35.4	40.0
1406001-000025	25	28.0x1.5	44.5	50.0
1406001-000032	32	34.0x1.5	50.2	55.0
1406001-000040	40	40.0x1.5	55.9	0.0
1406001-000050	50	52.0x1.5	67.2	70.0

No.	Nom.Size	AxT	H	R	
14060A1-000015	15	19.0x1.5	32.2	35.0	
14060A1-000020	20	23.0x1.5	36.5	40.0	
14060A1-000025	25	29.0x1.5	45.7	50.0	
14060A1-000032	32	35.0x1.5	51.3	55.0	
14060A1-000040	40	41.0x1.5	57.0	60.0	
14060A1-000050	50	53.0x1.5	68.2	70.0	
14060A1-000065	65	70.0x2.0	80.7	80.0	
14060A1-000080	80	85.0x2.0	93.0	90.0	
14060A1-000100	100	104.0x2.0	106.8	100.0	
14060A1-000125	125	129.0x2.0	178.2	187.5	
14060A1-000150	150	154.0x2.0	213.6	225.0	
14060A1-000200	200	204.0x2.0	284.3	300.0	



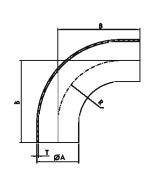
DIN11852 Automatic Tube Weld: 45° Elbow, Long

No.	Nom.Size	AxT	В	R	
14061B1-000010	10	13.0x1.5	35.8	26.0	
14061B1-000015	15	19.0x1.5	39.5	35.0	
14061B1-000020	20	23.0x1.5	41.6	40.0	
14061B1-000025	25	29.0x1.5	60.7	50.0	
14061B1-000032	32	35.0x1.5	62.8	55.0	
14061B1-000040	40	41.0x1.5	64.9	60.0	
14061B1-000050	50	53.0x1.5	69.0	70.0	
14061B1-000065	65	70.0x2.0	73. 1	80.0	
14061B1-000080	80	85.0x2.0	92.3	90.0	
14061B1-000100	100	104.0x2.0	96.4	100.0	
14061B1-000125	1 25	129.0x2.0	160.2	1 87.5	
14061B1-000150	150	154.0x2.0	193.2	225.0	
14061B1-000200	200	204.0x2.0	224.3	300.0	



DIN11852 Automatic Tube Weld: 90° Elbow, Long

DIN 1 1032 ADIOINGIC I	1406180-000015 15 19.0x1.5 60.0 35.0 1406180-000020 20 23.0x1.5 65.0 40.0 1406180-000025 25 29.0x1.5 90.0 50.0 1406180-000032 32 35.0x1.5 95.0 55.0 1406180-000040 40 41.0x1.5 100.0 60.0 1406180-000050 50 53.0x1.5 110.0 70.0 1406180-000065 65 70.0x2.0 120.0 80.0 1406180-000080 80 85.0x2.0 145.0 90.0 1406180-000100 100 104.0x2.0 155.0 100.0 1406180-000125 125 129.0x2.0 270.0 187.5 1406180-000150 150 154.0x2.0 325.0 225.0				
No.	Nom.Size	AxT	В	R	
14061B0-000010	10	1 3.0x1.5	51.0	26.0	
14061B0-000015	15	1 9.0 x1.5	60.0	35.0	
14061B0-000020	20	23.0x1.5	65.0	40.0	
14061B0-000025	25	29.0x1.5	90.0	50.0	
14061B0-000032	32	35.0x1.5	95.0	55.0	
14061B0-000040	40	41.0x1.5	100.0	60.0	
14061B0-000050	50	53.0x1.5	110.0	70.0	
14061B0-000065	65	70.0x2.0	120.0	80.0	
14061B0-000080	80	85.0x2.0	145.0	90.0	
14061B0-000100	100	104.0x2.0	155.0	100.0	
14061B0-000125	1 25	129.0x2.0	270.0	1 87.5	
14061B0-000150	150	154.0x2.0	325.0	225.0	
14061B0-000200	200	204.0x2.0	400.0	300.0	

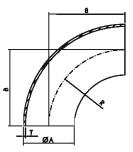




DIN11852 Automatic Tube Weld: 90° Elbow, Short

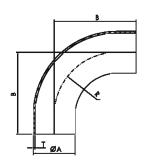
No.	Nom.Size	AxT		R	
1406000-000010	10	12.0x1.5	26.0	26.0	
1406000-000015	15	18.0x1.5	35.0	35.0	
1406000-000020	20	22.0x1.5	40.0	40.0	
1406000-000025	25	28.0x1.5	50.0	50.0	
1406000-000032	32	34.0x1.5	55.0	55.0	
1406000-000040	40	40.0x1.5	60.0	60.0	
1406000-000050	50	52.0x1.5	70.0	70.0	

No	Non-Clas	Aut			
No.	Nom.Size	AxT	3	R	
1 4 060A0-000010	10	13.0x1.5	26.0	26.0	
14060A0-000015	15	19.0x1.5	35.0	35.0	
14060A0-000020	20	23.0x1.5	40.0	40.0	
14060A0-000025	25	29.0x1.5	50.0	50.0	
14060A0-000032	32	35.0x1.5	55.0	55.0	
14060A0-000040	40	41.0x1.5	60.0	60.0	
14060A0-000050	50	53.0x1.5	70.0	70.0	
14060A0-000065	65	70.0x2.0	80.0	80.0	
14060A0-000080	80	85.0x2.0	90.0	90.0	
14060A0-000100	100	104.0x2.0	100.0	100.0	
14060A0-000125	125	129.0x2.0	187.0	187.0	
14060A0-000150	150	154.0x2.0	225.0	225.0	
1 4060A0-000200	200	204.0x2.0	300.0	300.0	
14060A0-000300	300	306.0x3.0	450.0	450.0	



DIN11852 Automatic Tube Weld: 90° Elbow, Long

No.	Nom.Size	AxT	<u> </u>	R
1406100-000010	10	12.0x1.5	38.0	26.0
1 406100-0000 15	15	18.0x1.5	47.0	35.0
1406100-000020	20	22.0x1.5	52.0	40.0
1406100-000025	25	28.0x1.5	70.0	50.0
1406100-000032	32	34.0x1.5	80.0	55.0
1406100-000040	40	40.0x 1.5	85.0	0.06
1406100-000050	50	52.0x1.5	97.0	70.0
1406100-000060	60	60.0x2.0	110.0	75.0

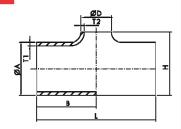


No.	Nom.Size	AxT		R
14061A0-000010	10	13.0x1.5	38.0	26.0
1 4061A0-000 015	15	19.0x1.5	47.0	35.0
14061A0-000020	20	23.0x1.5	52.0	40.0
14061A0-000025	25	29.0x1.5	70.0	50.0
14061A0-000032	32	35.0x1.5	80.0	55.0
14061A0-000040	40	41.0x1.5	85.0	60.0
14061A0-000050	50	53.0x1.5	97.0	70.0
1 4061A0-000065	65	70.0x2.0	110.0	80.0
14061A0-000080	80	85.0x2.0	118.0	90.0
14061A0-000100	100	1 04.0x2.0	140.0	100.0



DIN11852 Automatic Tube Weld: Short Outlet, Reducing Tee

	Nom Clas		Parameter Company		- 11	
No.	Nom.Size	AxT1	DxT2	3	Н	L
14030A0-020010	DN20x10	23.0x1.5	13.0x1.5	40.0	24.5	80.0
14030A0-020015	DN20x15	23.0x1.5	19.0x1.5	40.0	24.5	80.0
14030A0-025010	DN25x10	29.0x1.5	13.0x1.5	50.0	29.9	100.0
14030A0-025015	DN25x15	29.0x1.5	19.0x1.5	50.0	29.9	100.0
14030A0-025020	DN25x20	29.0x1.5	23.0x1.5	50.0	29.9	100.0
14030A0-032010	DN32x10	35.0x1.5	13.0x1.5	55.0	38.5	110.0
14030A0-032015	DN32x15	35.0x1.5	19.0x1.5	55.0	38.5	110.0
14030A0-032020	DN32x20	35.0x1.5	23.0x1.5	55.0	38.5	110.0
14030A0-032025	DN32x25	35.0x1.5	29.0x1.5	55.0	38.5	110.0
14030A0-040010	DN40x10	41.0x1.5	13.0x1.5	60.0	42.9	120.0
14030A0-040015	DN40x15	41.0x1.5	19.0x1.5	60.0	42.9	120.0
14030A0-040020	DN40x20	41.0x1.5	23.0x1.5	60.0	42.9	120.0
14030A0-040025	DN40x25	41.0x1.5	29.0x1.5	60.0	42.9	120.0
14030A0-040032	DN40x32	41.0x1.5	35.0x1.5	60.0	42.9	120.0
14030A0-050010	DN50x10	53.0x1.5	13.0x1.5	70.0	55.7	140.0
14030A0-050015	DN50x15	53.0x1.5	19.0x1.5	70.0	55.7	140.0
14030A0-050020	DN50x20	53.0x1.5	23.0x1.5	70.0	55.7	140.0
14030A0-050025	DN50x25	53.0x1.5	29.0x1.5	70.0	55.7	140.0
14030A0-050032	DN50x32	53.0x1.5	35.0x1.5	70.0	55.7	140.0
14030A0-050040	DN50x40	53.0x1.5	41.0x1.5	70.0	55.7	140.0
14030A0-065010	DN65x10	70.0x2.0	13.0x1.5	80.0	73.5	160.0
14030A0-065015	DN65x15	70.0x2.0	19.0x1.5	80.0	73.5	160.0
14030A0-065020	DN65x20	70.0x2.0	23.0x1.5	80.0	73.5	160.0
14030A0-065025	DN65x25	70.0x2.0	29.0x1.5	80.0	73.5	160.0
14030A0-065032	DN65x32	70.0x2.0	35.0x1.5	80.0	73.5	160.0
14030A0-065040	DN65x40	70.0x2.0	41.0x1.5	80.0	73.5	160.0
14030A0-065050	DN65x50	70.0x2.0	53.0x1.5	80.0	73.5	160.0
14030A0-080010	DN80x10	85.0x2.0	13.0x1.5	90.0	88.7	180.0
14030A0-080015	DN80x15	85.0x2.0	19.0x1.5	90.0	88.7	180.0
14030A0-080020	DN80x20	85.0x2.0	23.0x1.5	90.0	88.7	180.0
14030A0-080025	DN80x25	85.0x2.0	29.0x1.5	90.0	88.7	180.0
14030A0-080032	DN80x32	85.0x2.0	35.0x1.5	90.0	88.7	180.0
14030A0-080040	DN80x40	85.0x2.0	41.0x1.5	90.0	88.7	180.0
14030A0-080050	DN80x50	85.0x2.0	53.0x1.5	90.0	88.7	180.0
14030A0-080065	DN80x65	85.0x2.0	70.0x2.0	90.0	88.7	180.0
14030A0-100025	DN100x25	104.0x2.0	29.0x1.5	100.0	108.0	200.0
14030A0-100032	DN100x32	104.0x2.0	35.0x1.5	100.0	108.0	200.0
14030A0-100040	DN100x40	104.0x2.0	41.0x1.5	100.0	108.0	200.0
14030A0-100050	DN100x50	104.0x2.0	53.0x1.5	100.0	108.0	200.0
14030A0-100065	DN100x65	104.0x2.0	70.0x1.5	100.0	108.0	200.0
14030A0-100080	DN100x80	104.0x2.0	85.0x1.5	100.0	108.0	200.0
14030A0-125050	DN125x50	129.0x2.0	53.0x1.5	187.5	133.0	375.0
14030A0-125065	DN125x65	129.0x2.0	70.0x2.0	187.5	133.0	375.0
14030A0-125080	DN125x80	129.0x2.0	85.0x2.0	187.5	133.0	375.0
14030A0-125100	DN125x100	129.0x2.0	104.0x2.0	187.5	133.0	375.0
14030A0-150080	DN150x80	154.0x2.0	85.0x2.0	225.0	157.0	450.0
14030A0-150100	DN150x100	154.0x2.0	104.0x2.0	225.0	157.0	450.0
14030A0-150125	DN150x125	154.0x2.0	129.0x2.0	225.0	157.0	450.0
14030A0-200100	DN200x100	204.0x2.0	104.0x2.0	300.0	207.0	6.00
14030A0-200125	DN200x125	204.0x2.0	129.0x2.0	300.0	207.0	600.0
14030A0-200150	DN200x150	204.0x2.0	154.0x2.0	300.0	207.0	600.0

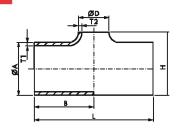






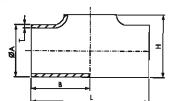
DIN11852 Automatic Tube Weld: Short Outlet, Reducing Tee

DINTI 1852 AUTOMORE	: Inde Meid: 2	non Cullei, k	eaucing re	:-			
No.	Nom.Size	AxT1	DxT2	В	H	L	
1403000-020015	DN20x15	22.0x1.5	1 8.0x1.5	40.0	24.0	80.0	
1403000-025015	DN25x15	28.0x1.5	18.0x1.5	50.0	30.0	100.0	
1403000-025020	DN25x20	28.0x1.5	22.0x1.5	50.0	30.0	100.0	
1403000-032015	DN32x15	34.0x1.5	18.0x1.5	55.0	38.0	110.0	
1403000-032020	DN32x20	34.0x1.5	22.0x1.5	55.0	38.0	110.0	
1403000-032025	DN32x25	34.0x1.5	28.0x1.5	55.0	38.0	110.0	
1403000-040020	DN40x20	40.0x1.5	22.0x1.5	60.0	44.0	120.0	
1403000-040025	DN40x25	40.0x1.5	28.0x1.5	60.0	44.0	120.0	
1403000-040032	DN40x32	40.0x1.5	34.0x1.5	60.0	44.0	120.0	
1403000-050025	DN50x25	52.0x1.5	28.0x1.5	70.0	56.0	140.0	
1403000-050032	DN50x32	52.0x1.5	34.0x1.5	70.0	56.0	140.0	
1403000-050040	DN50x40	52.0x1.5	40.0x1.5	70.0	56.0	140.0	
1403000-065025	DN65x25	70.0x2.0	28.0x1.5	80.0	72.0	160.0	
1403000-065032	DN65x32	70.0x2.0	34.0x1.5	80.0	72.0	160.0	
1403000-065040	DN65x40	70.0x2.0	40.0x1.5	80.0	72.0	160.0	
1403000-065050	DN65x50	85.0x2.0	52.0x1.5	80.0	72.0	160.0	
1403000-080025	DN80x25	85.0x2.0	28.0x1.5	90.0	89.0	180.0	
1403000-080032	DN80x32	85.0x2.0	34.0x1.5	90.0	89.0	180.0	
1403000-080040	DN80x40	85.0x2.0	40.0x1.5	90.0	89.0	180.0	
1403000-080050	DN80x50	85.0x2.0	52.0x1.5	90.0	89.0	180.0	
1403000-080065	DN80x65	104.0x2.0	70.0x2.0	90.0	89.0	180.0	
1403000-100025	DN100x25	104.0x2.0	28.0x1.5	100.0	108.0	200.0	
1403000-100032	DN100x32	104.0x2.0	34.0x1.5	100.0	109.0	200.0	
1403000-100040	DN100x40	104.0x2.0	40.0x1.5	100.0	108.4	200.0	
1403000-100050	DN100x50	104.0x2.0	52.0x1.5	100.0	108.0	200.0	
1403000-100065	DN100x65	104.0x2.0	70.0x2.0	100.0	110.0	200.0	
1403000-100080	DN100x80	104.0x2.0	85.0x2.0	100.0	109.5	200.0	



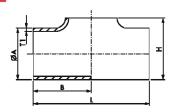
DIN11852 Automatic Tube Weld: Short Outlet Tee

No.	Nom.Size	AxT	3	i	<u> </u>	
1403000-000015	15	18.0x1.5	35.0	19.5	70.0	
1403000-000020	20	22.0x1.5	40.0	23.5	80.0	
1403000-000025	25	28.0x1.5	50.0	29.5	100.0	
1403000-000032	32	34.0x1.5	55.0	36.0	110.0	
1403000-000040	40	40.0x1.5	60.0	42.5	120.0	
1403000-000050	50	52.0x1.5	70.0	55.0	140.0	



DIN11865 Automatic Tube Weld: Short Outlet Tee

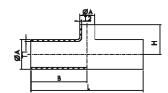
No.	Nom,Size	AxT	В		L	
14030A0-000010	10	13.0x1.5	35.0	14.1	70.0	
14030A0-000015	15	19.0x1.5	35.0	20.5	70.0	
14030A0-000020	20	23.0x1.5	40.0	24.5	80.0	
14030A0-000025	25	29.0x1.5	50.0	29.9	100.0	
14030A0-000032	32	35.0x1.5	55.0	38.5	110.0	
14030A0-000040	40	41.0x1.5	60.0	42.9	120.0	
14030A0-000050	50	53.0x1.5	70.0	55.7	140.0	
14030A0-000065	65	70.0x2.0	80.0	73.5	160.0	
14030A0-000080	80	85.0x2.0	90.0	88.7	180.0	
14030A0-000100	100	104.0x2.0	100.0	108.0	200.0	
14030A0-000125	125	129.0x2.0	189.5	132.0	375.0	
14030A0-000150	150	1 54.0x2.0	225.0	157.0	450.0	
1 4030A0-000200	200	204.0x2.0	300.0	207.0	600.0	





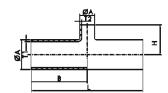
DIN11852 Automatic Tube Weld: Short Outlet, Reducing Tee

No.	Nom.Size	AxT1	DxT2	В	Н	Ţ.
14031A0-020015	DN20x15	23.0x1.5	19.0x1.5	40.0	37.0	80.0
14031A0-025015	DN25x15	29.0x1.5	19.0x1.5	50.0	40.0	100.0
14031A0-025020	DN25x20	29.0x1.5	23.0x1.5	50.0	43.0	100.0
14031A0-032015	DN32x15	35.0x1.5	19.0x1.5	55.0	43.0	110.0
14031A0-032020	DN32x20	35.0x1.5	23.0x1.5	55.0	46.0	110.0
14031A0-032025	DN32x25	35.0x1.5	29.0x1.5	55.0	53.0	110.0
14031A0-040020	DN40x20	41.0x1.5	23.0x1.5	60.0	49.0	120.0
14031A0-040025	DN40x25	41.0x1.5	29.0x1.5	60.0	56.0	120.0
14031A0-040032	DN40x32	41.0x1.5	35.0x1.5	60.0	58.0	120.0
14031A0-050025	DN50x25	53.0x1.5	29.0x1.5	70.0	52.0	140.0
14031A0-050032	DN50x32	53.0x1.5	35.0x1.5	70.0	64.0	140.0
14031A0-050040	DN50x40	53.0x1.5	41.0x1.5	70.0	66.0	140.0
14031A0-065025	DN65x25	70.0x2.0	29.0x1.5	80.0	70.5	160.0
14031A0-065032	DN65x32	70.0x2.0	35.0x1.5	80.0	72.5	160.0
14031A0-065040	DN65x40	70.0x2.0	41.0x1.5	80.0	74.5	160.0
1 4031A0-065050	DN65x50	70.0x2.0	53.0x1.5	80.0	78.5	160.0
14031A0-080040	DN80x40	85.0x2.0	41.0x1.5	90.0	82.0	180.0
14031A0-080050	DN80x50	85.0x2.0	53.0x1.5	90.0	86.0	180.0
14031A0-080065	DN80x65	85.0x2.0	70.0x2.0	90.0	87 <i>.</i> 5	180.0
14031A0-100050	DN100x50	104.0x2.0	53.0x1.5	100.0	95.5	200.0
1 4031A0-100065	DN100x65	104.0x2.0	70.0x1.5	100.0	97.0	200.0
14031A0-100080	DN100x80	104.0x2.0	85.0x1.5	100.0	99.5	200.0
14031A0-125065	DN125x65	129.0x2.0	70.0x2.0	187.5	109.5	375.0
14031A0-125080	DN125x80	129.0x2.0	85.0x2.0	187.5	112.0	375.0
14031A0-125100	DN125x100	129.0x2.0	104.0x2.0	187.5	112.5	375.0
14031A0-150080	DN150x80	154.0x2.0	85.0x2.0	225.0	124.5	450.0
1 4031A0-150100	DN150x100	154.0x2.0	104.0x2.0	225.0	125.0	450.0
14031A0-150125	DN150x125	1 54.0x2.0	129.0x2.0	225.0	200.0	450.0
14031A0-200100	DN200x100	204.0x2.0	104.0x2.0	300.0	150.0	0.003
14031A0-200125	DN200x125	204.0x2.0	129.0x2.0	300.0	225.0	0.00
14031A0-200150	DN200x150	204.0x2.0	154.0x2.0	300.0	250.0	600.0



DIN11852 Automatic Tube Weld: Short Outlet, Reducing Tee

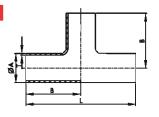
DIN 11852 Automati	c lube weld: 3	DIN 11652 Automatic Tube Weld: Short Outlet, Reducing fee							
No.	Nom.Size	AxT1	DxT2	В	E	L			
1403100-020015	DN20x15	22.0x1.5	18.0x1.5	40.0	37.0	80.0			
1403100-025015	DN25x15	28.0x1.5	18.0x1.5	50.0	40.0	100.0			
1403100-025020	DN25x20	28.0x1.5	22.0x1.5	50.0	43.0	100.0			
1403100-032015	DN32x15	34.0x1.5	18.0x1 <i>.</i> 5	55.0	43.0	110.0			
1403100-032020	DN32x20	34.0x1.5	22.0x1.5	55.0	46.0	110.0			
1403100-032025	DN32x25	34.0x1.5	28.0x1.5	55.0	55.0	110.0			
1403100-040020	DN40x20	40.0x1.5	22.0x1.5	60.0	60.0	120.0			
1403100-040025	DN40x25	40.0x1.5	28.0x1.5	60.0	60.0	120.0			
1403100-040032	DN40x32	40.0x1.5	34.0x1.5	60.0	60.0	120.0			
1403100-050025	DN50x25	52.0x1.5	28.0x1.5	70.0	70.0	140.0			
1403100-050032	DN50x32	52.0x1.5	34.0x1.5	70.0	70.0	140.0			
1403100-050040	DN50x40	52.0x1.5	40.0x1.5	70.0	70.0	140.0			
1403100-065025	DN65x25	70.0x2.0	28.0x1.5	80.0	80.0	160.0			
1403100-065032	DN65x32	70.0x2.0	34.0x1.5	80.0	80.0	160.0			
1403100-065040	DN65x40	70.0x2.0	40.0x1.5	80.0	80.0	160.0			
1403100-065050	DN65x50	70.0x2.0	52.0x1.5	80.0	80.0	160.0			
1403100-080025	DN80x25	85.0x2.0	28.0x1.5	90.0	90.0	180.0			
1403100-080032	DN80x32	85.0x2.0	34.0x1.5	90.0	90.0	180.0			
1403100-080040	DN80x40	85.0x2.0	40.0x1.5	90.0	90.0	180.0			
1403100-080050	DN80x50	85.0x2.0	52.0x1.5	90.0	90.0	180.0			
1403100-100050	DN100x50	104.0x2.0	52.0x1.5	100.0	100.0	200.0			



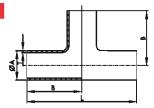


DIN11852 Automatic Tube Weld: Straight Tee

No.	Nom.Size	AxT	В	L
1403100-000010	10	12.0x1.5	35.0	70.0
1403100-000015	15	18.0x1.5	35.0	70.0
1403100-000020	20	22.0x1.5	40.0	80.0
1403100-000025	25	28.0x1.5	50.0	100.0
1403100-000032	32	34.0x1.5	55.0	110.0
1403100-000040	40	40.0x1.5	60.0	120.0
1403100-000050	50	52.0x1.5	70.0	140.0

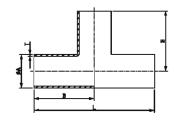


DIN11852 Automatic	Tube Weld: Strai	ght Tee			
No.	Nom.Size	AxT	В	Lg.	
14031A0-000010	10	13.0x1.5	35.0	70.0	
14031A0-000015	15	19.0x1.5	35.0	70.0	
14031A0-000020	20	23.0x1.5	40.0	80.0	
14031A0-000025	25	29.0x1.5	50.0	100.0	
14031A0-000032	32	35.0x1.5	55.0	110.0	
14031A0-000040	40	41.0x1.5	60.0	120.0	
14031A0-000050	50	53.0x1.5	70.0	140.0	
14031A0-000065	65	70.0x2.0	80.0	160.0	
14031A0-000080	80	85.0x2.0	90.0	180.0	
14031A0-000100	100	104.0x2.0	100.0	200.0	
14031A0-000125	125	129.0x2.0	187.5	375.0	
14031A0-000150	150	154.0x2.0	225.0	450.0	
14031A0-000200	200	204.0x2.0	300.0	6.00	



DIN11852 Automatic Tube Weld: Straight Tee

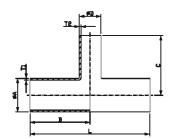
	114 1002 Adiomatic 1000 Weld: Straight 100							
No.	Nom.Size	AxT1	<u>.</u>	L				
54031A0-000006	DN6	8x1.0	30.0	60.0				
54031A0-000008	DN8	10x1.0	30.0	0.0				
54031A0-000010	DN10	13x1.5	35.0	70.0				
54031A0-000015	DN15	19x1.5	35.0	70.0				
54031A0-000020	DN20	23x1.5	40.0	80.0				
54031A0-000025	DN25	29x1.5	50.0	100.0				
54031A0-000032	DN32	35x1.5	55.0	110.0				
54031A0-000040	DN40	41x1.5	60.0	120.0				
54031A0-000050	DN50	53x1.5	80.0	160.0				
54031A0-000065	DN65	70x2.0	105.0	210.0				
54031A0-000080	DN80	85x2.0	130.0	260.0				
54031A0-000100	DN100	104x2.0	155.0	310.0				
54031A0-000125	DN125	1 29x2.0	187.5	375.0				
54031A0-000150	DN150	154x2.0	225.0	450.0				
54031A0-000200	DN200	204x2.0	300.0	600.0				





DIN11865 Automatic Tube Weld: Long Outlet, Reducing Tee

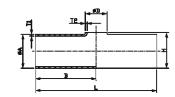
DIN 1 1865 AUIOMIGIIC	Tube Weld:	Long Collei,	keaucing i	ee			
No.	Nom.Size	AxT1	DxT2	B	C	L	
54031A0-008006	DN8x6	10x1.0	8x1.0	30.0	30.0	60.0	
54031A0-010006	DN10x6	1 3x1.5	8x1.0	30.0	30.0	60.0	
54031A0-010008	DN10x8	1 3x1.5	10x1.0	30.0	30.0	60.0	
54031A0-015008	DN15x8	1 9x1.5	10x1.0	35.0	35.0	70.0	
54031A0-015010	DN15x10	1 9x1.5	1 3x1.5	35.0	35.0	70.0	
54031A0-020010	DN20x10	23x1.5	1 3x1.5	40.0	40.0	80.0	
54031A0-020015	DN20x15	23x1.5	1 9x1.5	40.0	40.0	80.0	
54031A0-025015	DN25x15	29x1.5	1 9x1.5	50.0	50.0	100.0	
54031A0-025020	DN25x20	29x1.5	23x1.5	50.0	50.0	100.0	
54031A0-032015	DN32x15	35x1.5	1 9x1.5	55.0	55.0	110.0	
54031A0-032020	DN32x20	35x1.5	23x1.5	55.0	55.0	110.0	
54031A0-032025	DN32x25	35x1.5	29x1.5	55.0	55.0	110.0	
54031A0-040020	DN40x20	41x1.5	23x1.5	60.0	60.0	120.0	
54031A0-040025	DN40x25	41x1.5	29x1.5	60.0	60.0	120.0	
54031A0-040032	DN40x32	41x1.5	35x1.5	60.0	0.08	120.0	
54031A0-050025	DN50x25	53x1.5	29x1.5	80.0	0.08	160.0	
54031A0-050032	DN50x32	53x1.5	35x1.5	0.08	80.0	160.0	
54031A0-050040	DN50x40	53x1.5	41x1.5	80.0	0.08	160.0	
54031A0-065032	DN65x32	70x2.0	35x1.5	105.0	80.0	210.0	
54031A0-065040	DN65x40	70x2.0	41x1.5	105.0	80.0	210.0	
54031A0-065050	DN65x50	70x2.0	53x1.5	105.0	80.0	210.0	
54031A0-080040	DN80x40	85x2.0	41x1.5	130.0	105.0	260.0	
54031A0-080050	DN80x50	85x2.0	53x1.5	130.0	105.0	260.0	
54031A0-080065	DN80x65	85x2.0	70x2.0	130.0	105.0	260.0	
54031A0-100050	DN100x50	104x2.0	53x1.5	155.0	130.0	310.0	
54031A0-100065	DN100x65	104x2.0	70x2.0	155.0	130.0	310.0	
54031A0-100080	DN100x80	104x2.0	85x2.0	155.0	130.0	310.0	
54031A0-125065	DN125x65	129x2.0	70x2.0	187.5	155.0	375.0	
54031A0-125080	DN125x80	129x2.0	85x2.0	187.5	155.0	375.0	
54031A0-125100	DN125x100	129x2.0	104x2.0	187.5	155.0	375.0	
54031A0-150080	DN150x80	154x2.0	85x2.0	225.0	187.5	450.0	
54031A0-150100	DN150x100	154x2.0	104x2.0	225.0	187.5	450.0	
54031A0-150125	DN150x125	154x2.0	129x2.0	225.0	187.5	450.0	
54031A0-200100	DN200x100	204x2.0	104x2.0	300.0	225.0	600.0	
54031A0-200125	DN200x125	204x2.0	129x2.0	300.0	225.0	600.0	
54031A0-200150	DN200x150	204x2.0	154x2.0	300.0	225.0	600.0	





DIN11865 Automatic Tube Weld: Short Outlet, Reducing Tee

7.7.5						
No.	Nom.Size	AxT1	DxT2	В	H	
54030A0-008006	DN8x6	10x1.0	8x1.0	30.0	1	60.0
54030A0-010006	DN10x6	13x1.5	8x1.0	30.0	1	60.0
54030A0-010008	DN10x8	13x1.5	10x1.0	30.0	/	60.0
54030A0-015008	DN15x8	19x1.5	10x1.0	35.0	20.5	70.0
54030A0-015010	DN15x10	19x1.5	13x1.5	35.0	20.5	70.0
54030A0-020010	DN20x10	23x1.5	13x1.5	40.0	24.5	80.0
54030A0-020015	DN20x15	23x1.5	19 x1.5	40.0	24.5	80.0
54030A0-025015	DN25x15	29x1.5	19x1.5	50.0	29.9	100.0
54030A0-025020	DN25x20	29x1.5	23x1.5	50.0	29.9	100.0
54030A0-032015	DN32x15	35x1.5	19x 1.5	55.0	38.5	110.0
54030A0-032020	DN32x20	35x1.5	23x1.5	55.0	38.5	110.0
54030A0-032025	DN32x25	35x1.5	29x1.5	55.0	38.5	110.0
54030A0-040020	DN40x20	41x1.5	23x1.5	60.0	42.9	120.0
54030A0-040025	DN40x25	41x1.5	29x1.5	60.0	42.9	120.0
54030A0-040032	DN40x32	41x1.5	35x1.5	60.0	42.9	120.0
54030A0-050025	DN50x25	53x1.5	29x1.5	80.0	55.7	160.0
54030A0-050032	DN50x32	53x1.5	35x1.5	0.08	55.7	160.0
54030A0-050040	DN50x40	53x1.5	41x1.5	80.0	55.7	160.0
54030A0-065032	DN65x32	70x2.0	35x1.5	105.0	73.5	210.0
54030A0-065040	DN65x40	70x2.0	41x1.5	105.0	73.5	210.0
54030A0-065050	DN65x50	70x2.0	53 x1.5	105.0	73.5	210.0
54030A0-080040	DN80x40	85x2.0	41x1.5	130.0	88.7	260.0
54030A0-080050	DN80x50	85x2.0	53 x1.5	130.0	88.7	260.0
54030A0-080065	DN80x65	85x2.0	70x2.0	130.0	88.7	260.0
54030A0-100050	DN100x50	104x2.0	53 x1. 5	155.0	108.0	310.0
54030A0-100065	DN100x65	104x2.0	70x2.0	155.0	108.0	310.0
54030A0-100080	DN100x80	104x2.0	85x2.0	155.0	108.0	310.0
54030A0-125065	DN125x65	1 29x2.0	70x2.0	1 87. 5	133.0	375.0
54030A0-125080	DN125x80	1 29x2.0	85x2.0	187.5	133.0	375.0
54030A0-125100	DN125x100	1 29x2.0	104x2.0	187.5	133.0	375.0
54030A0-150080	DN150x80	1 54x2.0	85x2.0	225.0	157.0	450.0
54030A0-150100	DN150x100	1 54x2.0	1 04x2.0	225.0	157.0	450.0
54030A0-150125	DN150x125	154x2.0	1 29x2.0	225.0	157.0	450.0
54030A0-200100	DN200x100	204x2.0	10 4 x2.0	300.0	207.0	600.0
54030A0-200125	DN200x125	204x2.0	129x2.0	300.0	207.0	0.00
54030A0-200150	DN200x150	204x2.0	154x2.0	300.0	207.0	0.003

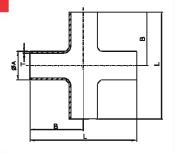






DIN11852 Automatic Tube Weld: Straight Cross

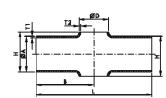
No.	Nom.Size	AxT	В	L	
1404100-000025	DN25	28.0x1.5	50	100	
1404100-000032	DN32	34.0x1.5	55	110	
1404100-000040	DN40	40.0x1.5	60	120	
1404100-000050	DN50	52.0x1.5	70	140	



No.	Nom.Size	AxT	В	L
14041A0-000025	DN25	29.0x1.5	50	100
14041A0-000032	DN32	35.0x1.5	55	110
14041A0-000040	DN40	41.0x1.5	60	120
14041A0-000050	DN50	53.0x1.5	70	140
14041A0-000065	DN65	70.0x2.0	80	160
14041A0-000080	DN80	85.0x2.0	90	180
14041A0-000100	DN100	104.0x2.0	100	200

DIN11852 Automatic Tube Weld: Reducing Cross

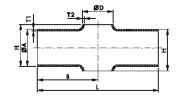
1404000-025015 DN25x15 28.0x1.5 18.0x1.5 50.0 30.0 10.0 1404000-025020 DN25x20 28.0x1.5 22.0x1.5 50.0 30.0 10.0 1404000-032015 DN32x15 34.0x1.5 18.0x1.5 55.0 38.0 11.0 1404000-032020 DN32x20 34.0x1.5 22.0x1.5 55.0 38.0 11.0 1404000-032025 DN32x25 34.0x1.5 28.0x1.5 55.0 38.0 11.0 1404000-040020 DN40x20 40.0x1.5 22.0x1.5 60.0 44.0 12.0 1404000-040025 DN40x25 40.0x1.5 28.0x1.5 60.0 44.0 12.0 1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12.0 1404000-050025 DN50x25 52.0x1.5 34.0x1.5 70.0 56.0 14.0 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14.0 1404000-065032 DN65x32 70.0x2.0	
1404000-025020 DN25x20 28.0x1.5 22.0x1.5 50.0 30.0 10.0 1404000-032015 DN32x15 34.0x1.5 18.0x1.5 55.0 38.0 11.0 1404000-032020 DN32x20 34.0x1.5 22.0x1.5 55.0 38.0 11.0 1404000-032025 DN32x25 34.0x1.5 28.0x1.5 55.0 38.0 11.0 1404000-040020 DN40x20 40.0x1.5 22.0x1.5 60.0 44.0 12.0 1404000-040025 DN40x25 40.0x1.5 28.0x1.5 60.0 44.0 12.0 1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12.0 1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14.0 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14.0 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16.0 1404000-065032 DN65x32 70.0x2.0	0.0
1404000-032015 DN32x15 34.0x1.5 18.0x1.5 55.0 38.0 11 1404000-032020 DN32x20 34.0x1.5 22.0x1.5 55.0 38.0 11 1404000-032025 DN32x25 34.0x1.5 28.0x1.5 55.0 38.0 11 1404000-040020 DN40x20 40.0x1.5 22.0x1.5 60.0 44.0 12 1404000-040025 DN40x25 40.0x1.5 28.0x1.5 60.0 44.0 12 1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12 1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5	0.0
1404000-032020 DN32x20 34.0x1.5 22.0x1.5 55.0 38.0 11 1404000-032025 DN32x25 34.0x1.5 28.0x1.5 55.0 38.0 11 1404000-040020 DN40x20 40.0x1.5 22.0x1.5 60.0 44.0 12 1404000-040025 DN40x25 40.0x1.5 28.0x1.5 60.0 44.0 12 1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12 1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	0.0
1404000-032025 DN32x25 34.0x1.5 28.0x1.5 55.0 38.0 11 1404000-040020 DN40x20 40.0x1.5 22.0x1.5 60.0 44.0 12 1404000-040025 DN40x25 40.0x1.5 28.0x1.5 60.0 44.0 12 1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12 1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	0.0
1404000-040020 DN40x20 40.0x1.5 22.0x1.5 60.0 44.0 12 1404000-040025 DN40x25 40.0x1.5 28.0x1.5 60.0 44.0 12 1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12 1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	0.0
1404000-040025 DN40x25 40.0x1.5 28.0x1.5 60.0 44.0 12 1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12 1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	0.0
1404000-040032 DN40x32 40.0x1.5 34.0x1.5 60.0 44.0 12 1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	20.0
1404000-050025 DN50x25 52.0x1.5 28.0x1.5 70.0 56.0 14 1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	20.0
1404000-050032 DN50x32 52.0x1.5 34.0x1.5 70.0 56.0 14 1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	20.0
1404000-050040 DN50x40 52.0x1.5 40.0x1.5 70.0 56.0 14 1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	0.0
1404000-065025 DN65x25 70.0x2.0 28.0x1.5 80.0 72.0 16 1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	0.0
1404000-065032 DN65x32 70.0x2.0 34.0x1.5 80.0 72.0 16	0.0
	0.0
1404000-065040 DN65x40 70.0x2.0 40.0x1.5 80.0 72.0 16	0.0
	0.0
1404000-065050 DN65x50 70.0x2.0 52.0x1.5 80.0 72.0 18	0.0
1404000-080025 DN80x25 85.0x2.0 28.0x1.5 90.0 89.0 18	0.0
1404000-080032 DN80x32 85.0x2.0 34.0x2.0 90.0 89.0 18	0.0
1404000-080040 DN80x40 85.0x2.0 40.0x1.5 90.0 89.0 18	0.0
1404000-080050 DN80x50 85.0x2.0 52.0x1.5 90.0 89.0 18	0.0
1404000-100015 DN100x15 104.0x2.0 18.0x1.5 100.0 108.0 20	0.0
1404000-100025 DN100x25 104.0x2.0 28.0x1.5 100.0 108.0 20	0.0
1404000-100032 DN100x32 104.0x2.0 34.0x1.5 100.0 109.0 20	0.0
1404000-100040 DN100x40 104.0x2.0 40.0x1.5 100.0 108.4 20	0.0
1404000-100050 DN100x50 104.0x2.0 52.0x1.5 100.0 108.0 20	0.0





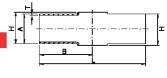
DIN11852 Automatic Tube Weld: Reducing Cross

No.	Nom.Size	AxT1	DxT2	В	Н	L	
14040A0-020015	DN20x15	23.0x1.5	19.0x1.5	40.0	24.0	80.0	
14040A0-025015	DN25x15	29.0x1.5	19.0x1.5	50.0	30.0	100.0	
14040A0-025020	DN25x20	29.0x1.5	23.0x1.5	50.0	30.0	100.0	
14040A0-032015	DN32x15	35.0x1.5	19.0x1.5	55.0	38.0	110.0	
14040A0-032020	DN32x20	35.0x1.5	23.0x1.5	55.0	38.0	110.0	
14040A0-032025	DN32x25	35.0x1.5	29.0x1.5	55.0	38.0	110.0	
14040A0-040020	DN40x20	41.0x1.5	23.0x1.5	60.0	44.0	120.0	
14040A0-040025	DN40x25	41.0x1.5	29.0x1.5	60.0	44.0	120.0	
14040A0-040032	DN40x32	41.0x1.5	35.0x1.5	60.0	44.0	120.0	
14040A0-050025	DN50x25	53.0x1.5	28.0x1.5	70.0	56.0	140.0	
14040A0-050032	DN50x32	53.0x1.5	34.0x1.5	70.0	56.0	140.0	
14040A0-050040	DN50x40	53.0x1.5	41.0x1.5	70.0	56.0	140.0	
14040A0-065025	DN65x25	70.0x2.0	29.0x1.5	80.0	72.0	160.0	
14040A0-065032	DN65x32	70.0x2.0	35.0x1.5	80.0	72.0	160.0	
14040A0-065040	DN65x40	70.0x2.0	41.0x1.5	80.0	72.0	160.0	
14040A0-065050	DN65x50	70.0x2.0	53.0x1.5	80.0	72.0	180.0	
14040A0-080025	DN80x25	85.0x2.0	29.0x1.5	90.0	89.0	180.0	
14040A0-080032	DN80x32	85.0x2.0	35.0x2.0	90.0	89.0	180.0	
14040A0-080040	DN80x40	85.0x2.0	41.0x1.5	90.0	89.0	180.0	
14040A0-080050	DN80x50	85.0x2.0	53.0x1.5	90.0	89.0	180.0	
14040A0-080065	DN80x65	85.0x2.0	70.0x2.0	90.0	89.0	180.0	
14040A0-100015	DN100x15	104.0x2.0	18.0x1.5	100.0	108.0	200.0	
14040A0-100025	DN100x25	104.0x2.0	28.0x1.5	100.0	108.0	200.0	
14040A0-100032	DN100x32	104.0x2.0	34.0x1.5	100.0	109.0	200.0	
14040A0-100040	DN100x40	104.0x2.0	40.0x1.5	100.0	108.4	200.0	
14040A0-100050	DN100x50	104.0x2.0	52.0x1.5	100.0	108.0	200.0	
14040A0-100065	DN100x65	104.0x2.0	70.0x1.5	100.0	110.0	200.0	
14040A0-100080	DN100x80	104.0x2.0	85.0x1.5	100.0	109.5	200.0	



DIN11852 Automatic Tube Weld: Cross

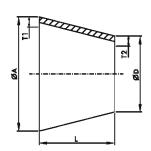
No.	Nom.Size	AxT	3	H	L
1404000-000025	DN25	28.0x1.5	50	29.5	100
1404000-000032	DN32	34.0x1.5	55	36.0	110
1404000-000040	DN40	40.0x1.5	60	42.5	120
1404000-000050	DN50	52.0x1.5	70	55.0	140
No.	Nom.Size	AxT	<u> </u>		L
14040A0-000025	DN25	29.0x1.5	50	29.5	100
14040A0-000032	DN32	35.0x1.5	55	36.0	110
14040A0-000040	DN40	41.0x1.5	60	42.5	120
14040A0-000050	DN50	53.0x1.5	70	55.0	140
14040A0-000065	DN65	70.0x2.0	80	73.5	160
14040A0-000080	DN80	85.0x2.0	90	88.0	180
14040A0-000100	DN100	104.0x2.0	100	108.0	200





DIN11852 Automatic Tube Weld: Concentric Reducer

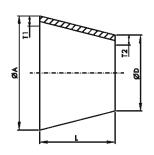
No.	Nom.Size	AxT1	DxT2		
1405000-015010	DN15x10	18.0x1.5	12.0x1.5	11.0	
1405000-020010	DN20x10	22.0x1.5	12.0x1.5	18.0	
1405000-020015	DN20x15	22.0x1.5	18.0x1.5	7.0	
1405000-025010	DN25x10	28.0x1.5	12.0x1.5	12.0	
1405000-025015	DN25x15	28.0x1.5	18.0x1.5	18.0	
1405000-025020	DN25x20	28.0x1.5	22.0x1.5	11.0	
1405000-032020	DN32x20	34.0x1.5	22.0x1.5	22.0	
1405000-032025	DN32x25	34.0x1.5	28.0x1.5	11.0	
1405000-040015	DN40x15	40.0x1.5	18.0x1.5	40.0	
1405000-040020	DN40x20	40.0x1.5	22.0x1.5	33.0	
1405000-040025	DN40x25	40.0x1.5	28.0x1.5	22.0	
1405000-040032	DN40x32	40.0x1.5	34.0x1.5	11.0	
1405000-050025	DN50x25	52.0x1.5	28.0x1.5	44.0	
1405000-050032	DN50x32	52.0x1.5	34.0x1.5	33.0	
1405000-050040	DN50x40	52.0x1.5	40.0x1.5	22.0	
1405000-065025	DN65x25	70.0x2.0	28.0x1.5	73.0	
1405000-065032	DN65x32	70.0x2.0	34.0x1.5	62.0	
1405000-065040	DN65x40	70.0x2.0	40.0x1.5	51.0	
1405000-065050	DN65v50	70.0x2.0	52.0x1.5	29.0	
1405000-080025	DN80x25	85.0x2.0	28.0x1.5	100.0	
1405000-080032	DN80x32	85.0x2.0	34.0x1.5	89.0	
1405000-080040	DN80x40	85.0x2.0	40.0x1.5	78.0	
1405000-080050	DN80x50	85.0x2.0	52.0x1.5	56.0	
1405000-100025	DN100x25	104.0x2.0	28.0x1.5	134.0	
1405000-100032	DN100x32	104.0x2.0	34.0x1.5	123.0	
1405000-100040	DN100x40	104.0x2.0	40.0x1.5	112.0	
1405000-100050	DN100x50	104.0x2.0	52.0x1.5	90.0	





DIN11852 Automatic Tube Weld: Concentric Reducer

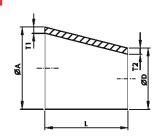
No.	Nom.Size	AxT1	DxT2	В	
14050A0-015010	DN15x10	19.0x1.5	13.0x1.5	11.0	
14050A0-020010	DN20x10	23.0x1.5	13.0x1.5	18.0	
14050A0-020015	DN20x15	23.0x1.5	19.0x1.5	7.0	
14050A0-025010	DN25x10	29.0x1.5	13.0x1.5	28.0	
14050A0-025015	DN25x15	29.0x1.5	19.0x1.5	18.0	
14050A0-025020	DN25x20	29.0x1.5	23.0x1.5	11.0	
14050A0-032015	DN32x15	35.0x1.5	19.0x1.5	29.0	
14050A0-032020	DN32x20	35.0x1.5	23.0x1.5	22.0	
14050A0-032025	DN32x25	35.0x1.5	29.0x1.5	11.0	
14050A0-040015	DN40x15	41.0x1.5	19.0x1.5	40.0	
14050A0-040020	DN40x20	41.0x1.5	23.0x1.5	33.0	
14050A0-040025	DN40x25	41.0x1.5	29.0x1.5	22.0	
14050A0-040032	DN40x32	41.0x1.5	35.0x1.5	11.0	
14050A0-050015	DN50x15	53.0x1.5	19.0x1.5	66.0	
14050A0-050020	DN50x20	53.0x1.5	23.0x1.5	55.0	
14050A0-050025	DN50x25	53.0x1.5	29.0x1.5	44.0	
14050A0-050032	DN50x32	53.0x1.5	35.0x1.5	33.0	
14050A0-050040	DN50x40	53.0x1.5	41.0x1.5	22.0	
14050A0-065025	DN65x25	70.0x2.0	29.0x1.5	73.0	
14050A0-065032	DN65x32	70.0x2.0	35.0x1.5	62.0	
14050A0-065040	DN65x40	70.0x2.0	41.0x1.5	51.0	
14050A0-065050	DN65x50	70.0x2.0	53.0x1.5	29.0	
14050A0-080032	DN80x32	85.0x2.0	35.0x1.5	89.0	
14050A0-080040	DN80x40	85.0x2.0	41.0x1.5	78.0	
14050A0-080050	DN80x50	85.0x2.0	53.0x1.5	56.0	
14050A0-080065	DN80x65	85.0x2.0	70.0x2.0	27.0	
14050A0-100050	DN100x50	104.0x2.0	53.0x1.5	90.0	
14050A0-100065	DN100x65	104.0x2.0	70.0x2.0	61.0	
14050A0-100080	DN100x80	104.0x2.0	85.0x2.0	34.0	
14050A0-125065	DN125x65	129.0x2.0	70.0x2.0	106.0	
14050A0-125080	DN125x80	129.0x2.0	85.0x2.0	79.0	
14050A0-125100	DN125x100	129.0x2.0	104.0x2.0	45.0	
14050A0-150065	DN150x65	154.0x2.0	70.0x2.0	151.0	
14050A0-150080	DN150x80	154.0x2.0	85.0x2.0	124.0	
14050A0-150100	DN150x100	154.0x2.0	104.0x2.0	90.0	
14050A0-150125	DN150x125	154.0x2.0	129.0x2.0	45.0	
14050A0-200050	DN200x50	204.0x2.0	53.0x1.5	271.0	
14050A0-200100	DN200x100	204.0x2.0	104.0x2.0	203.0	
14050A0-200125	DN200x125	204.0x2.0	1 29.0x2.0	134.0	
14050A0-200150	DN200x150	204.0x2.0	154.0x2.0	90.0	





DIN11852 Automatic Tube Weld: Eccentric Reducer

No.	Nom.Size	AxT1	DxT2		
1405100-020015	DN20x15	22.0x1.5	18.0x1.5	11.0	
1405100-025010	DN25x10	28.0x1.5	12.0x1.5	44.0	
1405100-025015	DN25x15	28.0x1.5	1 8.0x1.5	27.5	
1405100-025020	DN25x20	28.0x1.5	22.0x1.5	16.5	
1405100-032020	DN32x20	34.0x1.5	22.0x1.5	33.0	
1405100-032025	DN32x25	34.0x1.5	28.0x1.5	16.5	
1405100-040015	DN40x15	40.0x1.5	18.0x1.5	60.5	
1405100-040020	DN40x20	40.0x1.5	22.0x1.5	49.5	
1405100-040025	DN40x25	40.0x1.5	28.0x1.5	33.0	
1405100-040032	DN40x32	40.0x1.5	34.0x1.5	16.5	
1405100-050025	DN50x25	52.0x1.5	28.0x1.5	66.0	
1405100-050032	DN50x32	52.0x1.5	34.0x1.5	49.5	
1405100-050040	DN50x40	52.0x1.5	40.0x1.5	33.0	
1405100-065025	DN65x25	70.0x2.0	28.0x1.5	73.0	
1405100-065032	DN65x32	70.0x2.0	34.0x1.5	62.0	
1405100-065040	DN65x40	70.0x2.0	40.0×1.5	77.0	
1405100-065050	DN65x50	70.0x2.0	52.0x1.5	44.0	
1405100-080025	DN80x25	85.0x2.0	28.0x1.5	100.0	
1405100-080032	DN80x32	85.0x2.0	34.0x1.5	89.0	
1405100-080040	DN80x40	85.0x2.0	40.0x1.5	78.0	
1405100-080050	DN80x50	85.0x2.0	52.0x1.5	85.0	
1405100-100025	DN100x25	1 04.0x2.0	28.0x1.5	134.0	
1405100-100032	DN100x32	1 04.0x2.0	34.0x1.5	123.0	
1405100-100040	DN100x40	1 04.0x2.0	40.0x1.5	112.0	
1405100-100050	DN100x50	1 04.0x2.0	52.0x1.5	137.5	

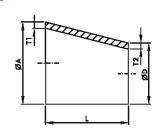






DIN11852 Automatic Tube Weld: Eccentric Reducer

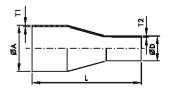
DIN I 1852 AUTOMOTI	c lube weld: Ec	cenmic keaucer			
No.	Nom.Size	AxT1	DxT2	В	
14051A0-015010	DN15x10	19.0x1.5	13.0x1.5	16.5	
14051A0-020010	DN20x10	23.0x1.5	13.0x1.5	27.5	
1 4051A0-0200 1 5	DN20x15	23.0x1.5	19.0x1.5	11.0	
14051A0-025010	DN25x10	29.0x1.5	13.0x1.5	44.0	
1 4051A0-0250 1 5	DN25x15	29.0x1.5	19.0x1.5	27.5	
1 4051A0-025020	DN25x20	29.0x1.5	23.0x1.5	16.5	
1 4051A0-032020	DN32x20	35.0x1.5	23.0x1.5	33.0	
1 4051A0-032025	DN32x25	35.0x1.5	29.0x1.5	16.5	
1 4051A0-0400 15	DN40x15	41.0x1.5	19.0x1.5	60.5	
1 4051A0-040020	DN40x20	41.0x1.5	23.0x1.5	49.5	
1 4051A0-040025	DN40x25	41.0x1.5	29.0x1.5	33.0	
1 4051A0-040032	DN40x32	41.0x1.5	35.0x1.5	16.5	
1 4051A0-050025	DN50x25	53.0x1.5	29.0x1.5	66.0	
14051A0-050032	DN50x32	53.0x1.5	35.0x1.5	49.5	
1 4051A0-050040	DN50x40	53.0x1.5	41.0x1.5	33.0	
1 4051A0-065025	DN65x25	70.0x2.0	29.0x1.5	110.0	
1 4051A0-065032	DN65x32	70.0x2.0	35.0x1.5	93.5	
1 4051A0-065040	DN65x40	70.0x2.0	41.0x1.5	77.0	
1 4051A0-065050	DN65x50	70.0x2.0	53.0x1.5	44.0	
1 4051A0-080040	DN80x40	85.0x2.0	41.0x1.5	118.0	
1 4051A0-080050	DN80x50	85.0x2.0	53.0x1.5	85.0	
1 4051A0-080065	DN80x65	85.0x2.0	70.0x2.0	41.2	
1 4051A0-100040	DN100x40	104.0x2.0	53.0x1.5	770.5	
1 4051A0-100050	DN100x50	104.0x2.0	41.0x1.5	137.5	
1 4051A0-100065	DN100x65	104.0x2.0	70.0x2.0	93.5	
1 4051A0-100080	DN100x80	104.0x2.0	85.0x2.0	52.5	
1 4051A0-125050	DN125x50	129.0x2.0	53.0x1.5	106	
1 4051A0-125065	DN125x65	129.0x2.0	70.0x2.0	102	
1 4051A0-125080	DN125x80	129.0x2.0	85.0x2.0	121.0	
1 4051A0-125100	DN125x100	129.0x2.0	1 04.0x2.0	68.5	
1 4051A0-150050	DN150x50	154.0x2.0	53.0x1.5	124.0	
1 4051A0-150065	DN150x65	154.0x2.0	70.0x2.0	274.5	
1 4051A0-150080	DN150x80	154.0x2.0	85.0x2.0	230.5	
1 4 051A0-150100	DN150x100	154.0x2.0	1 04.0x2.0	137.5	
1 4051A0-150125	DN150x125	154.0x2.0	1 29.0x2.0	68.5	
1 4051A0-200100	DN200x100	204.0x2.0	1 04.0x2.0	178.0	
1 4051A0-200150	DN200x150	204.0x2.0	1 54.0x2.0	125.0	





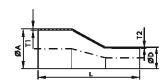
DIN11852 Automatic Tube Weld: Concentric Reducer

No.	Nom.Size	AxT1	DxT2	L	
14050B1-020015	DN20x15	23.0x1.5	19.0x1.5	84.0	
14050B1-025015	DN25x15	29.0x1.5	19.0x1.5	84.0	
14050B1-025020	DN25x20	29.0x1.5	23.0x1.5	84.0	
14050B1-032015	DN32x15	35.0x1.5	19.0x1.5	90.6	
14050B1-032020	DN32x20	35.0x1.5	23.0x1.5	84.0	
14050B1-032025	DN32x25	35.0x1.5	29.0x1.5	84.0	
14050B1-040015	DN40x15	41.0x1.5	19.0x1.5	102.0	
14050B1-040020	DN40x20	41.0x1.5	23.0x1.5	94.5	
14050B1-040025	DN40x25	41.0x1.5	29.0x1.5	84.0	
14050B1-040032	DN40x32	53.0x1.5	35.0x1.5	84.0	
14050B1-050015	DN50x15	53.0x1.5	19.0x1.5	125.0	
14050B1-050020	DN50x20	53.0x1.5	23.0x1.5	11 7. 5	
14050B1-050025	DN50x25	53.0x1.5	29.0x1.5	106.0	
14050B1-050032	DN50x32	53.0x1.5	35.0x1.5	94.5	
14050B1-050040	DN50x40	53.0x1.5	41.0x1.5	84.0	
14050B1-065025	DN65x25	70.0x2.0	29.0x1.5	138.5	
14050B1-065032	DN65x32	70.0x2.0	35.0x1.5	127.0	
14050B1-065040	DN65x40	70.0x2.0	41.0x2.0	115.5	
14050B1-065050	DN65x50	70.0x2.0	53.0x1.5	92.0	
14050B1-080032	DN80x32	85.0x2.0	35.0x1.5	156.0	
14050B1-080040	DN80x40	85.0x2.0	41.0x2.0	144.5	
14050B1-080050	DN80x50	85.0x2.0	53.0x1.5	1 21.5	
14050B1-080065	DN80x65	85.0x2.0	70.0x2.0	88.0	
14050B1-100050	DN100x50	104.0x2.0	53.0x1.5	158.0	
14050B1-100065	DN100x65	104.0x2.0	70.0x2.0	125.0	
14050B1-100080	DN100x80	104.0x2.0	85.0x2.0	95.0	
14050B1-150080	DN150x80	154.0x2.0	85.0x2.0	184.0	



DIN11852 Automatic Tube Weld: Eccentric Reducer

DINTI 1032 AUIOITIG	CI				
No.	Nom.Size	AxT1	DxT2	L	
14051B1-020015	DN20x15	23.0x1.5	19.0x1.5	71.0	
14051B1-025015	DN25x15	29.0x1.5	19.0x1.5	87.5	
14051B1-025020	DN25x20	29.0x1.5	23.0x1.5	76.5	
14051B1-032020	DN32x20	35.0x1.5	23.0x1.5	93.0	
14051B1-032025	DN32x25	35.0x1.5	35.0x1.5	76.5	
14051B1-040020	DN40x20	41.0x1.5	23.0x1.5	109.5	
14051B1-040025	DN40x25	41.0x1.5	29.0x1.5	93.0	
14051B1-040032	DN40x32	41.0x1.5	35.0x1.5	76.5	
14051B1-050025	DN50x25	53.0x1.5	29.0x1.5	126.0	
14051B1-050032	DN50x32	53.0x1.5	35.0x1.5	109.5	
14051B1-050040	DN50x40	53.0x1.5	41.0x1.5	93.0	
14051B1-065032	DN65x32	70.0x2.0	35.0x1.5	153.5	
14051B1-065040	DN65x40	70.0x2.0	41.0x1.5	137.0	
14051B1-065050	DN65x50	70.0x2.0	53.0x1.5	104.0	
14051B1-080050	DN80x50	85.0x2.0	53.0x1.5	145.0	
14051B1-080065	DN80x65	85.0x2.0	70.0x2.0	101.2	
14051B1-100065	DN100x65	104.0x2.0	70.0x2.0	153.5	
14051B1-100080	DN100x80	105.0x2.0	85.0x2.0	112.5	
14051B1-150080	DN150x80	154.0x2.0	85.0x2.0	184.0	

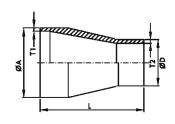






DIN11865 Automatic Tube Weld: Concentric Reducer

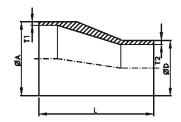
DIN 1 1003 AUGINGIE TODE WEIG: CONCENING REGUCE							
No.	Nom.Size	AxT1	DxT2	Ţ			
54050A0-008006	DN8x6	10x1.0	8x1.0	38.0			
54050A0-010006	DN10x6	13x1.5	8x1.0	38.0			
54050A0-010008	DN10x8	13x1.5	10x1.0	38.0			
54050A0-015008	DN15x8	19x1.5	10x1.0	60.0			
54050A0-015010	DN15x10	19x1.5	13x1.5	60.0			
54050A0-020010	DN20x10	23x1.5	13x1.5	60.0			
54050A0-020015	DN20x15	23x1.5	19 x1.5	60.0			
54050A0-025015	DN25x15	29 x1.5	19 x1.5	70.0			
54050A0-025020	DN25x20	29 x1.5	23 x1.5	70.0			
54050A0-032020	DN32x20	35x1.5	23 x1.5	80.0			
54050A0-032025	DN32x25	35x1.5	29 x1.5	80.0			
54050A0-040020	DN40x20	41x1.5	23 x1.5	90.0			
54050A0-040025	DN40x25	41x1.5	29 x1.5	90.0			
54050A0-040032	DN40x32	41x1.5	35 x1.5	90.0			
54050A0-050025	DN50x25	53x1.5	29 x1.5	90.0			
54050A0-050032	DN50x32	53x1.5	35 x1.5	90.0			
54050A0-050040	DN50x40	53x1.5	41x1.5	90.0			
54050A0-065040	DN65x40	70x2.0	41x1.5	110.0			
54050A0-065050	DN65x50	70x2.0	53 x1.5	110.0			
54050A0-080050	DN80x50	85x2.0	53 x1.5	110.0			
54050A0-080065	DN80x65	85x2.0	70x2.0	110.0			
54050A0-100065	DN100x65	104x2.0	70x2.0	135.0			
54050A0-100080	DN100x80	104x2.0	85x2.0	135.0			
54050A0-125080	DN125x80	1 29x2.0	85x2.0	150.0			
54050A0-125100	DN125x100	1 29x2.0	1 04x2.0	150.0			
54050A0-150100	DN150x100	15 4x2.0	1 04x2.0	170.0			
54050A0-150125	DN150x125	15 4x2.0	1 29x2.0	170.0			
54050A0-200125	DN200x125	204x2.0	1 29x2.0	230.0			
54050A0-200150	DN200x150	204x2.0	1 54x2.0	230.0			





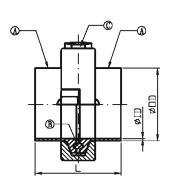
DIN11865 Automatic Tube Weld: Eccentric Reducer

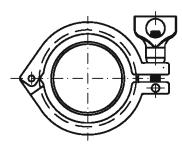
No.	Nom.Size	AxT1	DxT2	1	
54051A0-008006	DN8x6	10x1.0	8x1.0	38.0	
54051A0-010006	DN10x6	13x1.5	8x1.0	38.0	
54051A0-010008	DN10x8	13x1.5	10x1.0	38.0	
54051A0-015008	DN15x8	19x1.5	10x1.0	60.0	
54051A0-015010	DN15x10	19x1.5	1 3x 1.5	60.0	
54051A0-020010	DN20x10	23x1.5	1 3 x1.5	60.0	
54051A0-020015	DN20x15	23x1.5	1 9 x1.5	60.0	
54051A0-025015	DN25x15	29 x1.5	19x1.5	70.0	
54051A0-025020	DN25x20	29x1.5	23x1.5	70.0	
54051A0-032020	DN32x20	35x1.5	23x1.5	80.0	
54051A0-032025	DN32x25	35×1.5	29 x1.5	0.08	
54051A0-040020	DN40x20	41x1.5	23x1.5	90.0	
54051A0-040025	DN40x25	41x1.5	29x1.5	90.0	
54051A0-040032	DN40x32	41x1.5	35x1.5	90.0	
54051A0-050025	DN50x25	53x1.5	29x 1.5	90.0	
54051A0-050032	DN50x32	53x 1.5	35x1.5	90.0	
54051A0-050040	DN50x40	53x1.5	41x1.5	90.0	
54051A0-065040	DN65x40	70x2.0	41x1.5	110.0	
54051A0-065050	DN65x50	70x2.0	53x1.5	110.0	
54051A0-080050	DN80x50	85×2.0	53x1.5	110.0	
54051A0-080065	DN80x65	85x2.0	70x2.0	110.0	
54051A0-100065	DN100x65	1 04x2.0	70x2.0	135.0	
54051A0-100080	DN100x80	1 04x2.0	85x2.0	135.0	
54051A0-125080	DN125x80	1 29x2.0	85x2.0	150.0	
54051A0-125100	DN125x100	1 29x2.0	104x2.0	150.0	
54051A0-150100	DN150x100	15 4 x2.0	104x2.0	170.0	
54051A0-150125	DN150x125	15 4x2.0	1 29x2.0	170.0	
54051A0-200125	DN200x125	204x2.0	1 29×2.0	230.0	
54051A0-200150	DN200x150	204x2.0	154x2.0	230.0	



DIN32676 Union

A	B	e	Size	OD	ID	L
1414A02-0010	1415002-0010	1513016-0034	10	13	10	58.9
1 4 14A02-0015	1415002-0015	1513016-0034	15	1 9	15	58.9
1414A02-0020	1415002-0020	1513016-0034	20	23	20	58.9
1414A02-0025	1415002-0025	1513016-0051	25	29	25	73.7
1414A02-0032	1415002-0032	1513016-0051	32	35	32	73.7
1414A02-0040	1415002-0040	1513016-0051	40	41	40	73.7
1414A02-0050	1415002-0050	1513016-0064	50	53	50	73.7
1414A02-0065	1415002-0065	1513016-0091	65	70	6 5	97.7
1414A02-0080	1415002-0080	1513016-0106	80	85	80	97.7
1 4 14 A 02-0100	1415002-0100	1513016-0119	100	104	100	97.7
1 4 14A02-0125	1415002-0125	1513016-0155	125	129	1 25	133.7
1414A02-0150	1415002-0150	1513016-0183	150	154	150	133.7

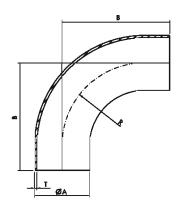






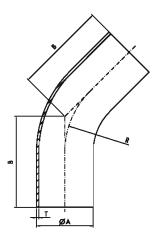
DIN11865 Automatic Tube Weld: 90° Elbow

No.	Nom.Size	AxT	B	R
54061A0-000006	DN6	8x1.0	45.0	20.0
54061A0-000008	DN8	10x1.0	50.0	25.0
54061A0-000010	DN10	1 3x1.5	51.0	26.0
54061A0-000015	DN15	1 9x1.5	0.0	35.0
54061A0-000020	DN20	23x1.5	65.0	40.0
54061A0-000025	DN25	29x1.5	90.0	50.0
54061A0-000032	DN32	35x1.5	95.0	55.0
54061A0-000040	DN40	41x1.5	100.0	60.0
54061A0-000050	DN50	53x1.5	110.0	70.0
54061A0-000065	DN65	70x2.0	120.0	80.0
54061A0-000080	DN80	85x2.0	145.0	90.0
54061A0-000100	DN100	104x2.0	155.0	100.0
54061A0-000125	DN125	129x2.0	270.0	187.0
54061A0-000150	DN150	154x2.0	325.0	225.0
54061A0-000200	DN200	204x2.0	400.0	300.0



DIN11865 Automatic Tube Weld: 45° Elbow

No.	Nom.Size	AxT	В	R
54061A1-000006	DN6	8x1.0	33.3	20.0
54061A1-000008	DN8	10x1.0	35.4	25.0
54061A1-000010	DN10	13x1.5	35.8	26.0
54061A1-000015	DN15	19x1.5	39.5	35.0
54061A1-000020	DN20	23x1.5	41.6	40.0
54061A1-000025	DN25	29x1.5	62.7	50.0
4061A1-000032	DN32	35x1.5	62.8	55.0
54061A1-000040	DN40	41x1.5	64.9	60.0
54061A1-000050	DN50	53x1.5	69.0	70.0
54061A1-000065	DN65	70x2.0	73.1	80.0
54061A1-000080	DN80	85x2.0	92.3	90.0
54061A1-000100	DN100	104x2.0	96.4	100.0
54061A1-000125	DN125	129x2.0	160.2	187.0
54061A1-000150	DN150	154x2.0	193.2	225.0
54061A1-000200	DN200	204x2.0	224.3	300.0





Sanitary Filtration System

Application

King Lai duplex filter is suitable for the filtration of different type of very small impurities present in fresh milk, sugar, beverages, glue, CIP cleaning fluid and other liquids. The two filters can run alternatively or continually so that they can be replaced or cleaned online.

Working Principle

Install a sanitary duplex filter in the liquid transport pipeline and transmit the fluid medium into the filter through the cartridges, and then fully contact strainer in the big pipe of the filter so as to completely particle in fluid medium. It is recommended to use the bottom connection as inlet and the top connection or side connection as outlet. This means that the particles strained off will gather inside the filter element which facilitates cleaning, especially the duplex filter is horizontally installed.

Features

- All parts are made of stainless steel (AISI 304/316L).
- 30 to 300 mesh filter cartridges are available upon request. The filter cartridges can be mounted and dismounted without use of tools.
- The two filters can run alternatively or continually so that they can be replaced or cleaned online.

Technical Data

Items	Details
Working pressure	0-10Bar, 0-145psl
Gasket	EPDM
Operating temperature	-10° C-120° C, 14° F to 248° F (EPDM) +140° C, 248° F (\$IP, ≤ 30 minute)
Cartridge material	1.4301(304) / 1.4404(316L) EN10088
Filter screen	30 ~ 300 mesh size (optional)
Body Connection	Clamp
Connections	Welded, Clamp, thread, flange
Surface finish	3A, DIN, ISO, GB
Certifications	Inner surface: Electrolytic polishing Ra=0.4µm Outter surface: Mirror polishing Ra=0.8µm3A

Duplex Filtration Systems (Straight thought type)

Size	A	ı Çı	L1	L2	H1	L	D	
1.0"	50.4	486	75.4	225.4	402	507.6	101.6	
1.5"	50.4	524	75.4	225.4	402	545.8	101.6	
2.0"	63.9	562	75.4	225.4	402	583.8	101.6	
2.5"	77.5	620	75.4	245.2	402	622	114.3	
3.0"	90.9	658	75.4	245.2	402	660	114.3	

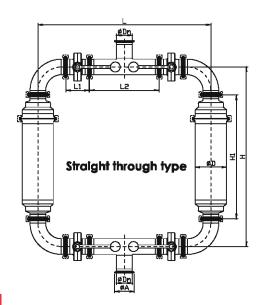
Duplex Filtration Systems (Angular type)

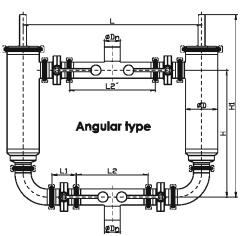
Size	A	L	L1	L2	H1	Н	D
1.0"	50.4	486	225.4	193.2	536.55	361.45	101.6
1.5"	50.4	524	225.4	231.4	555.65	380.55	101.6
2.0"	63.9	562	225.4	269.4	574.65	399.55	101.6
2.5"	77.5	620	245.2	314.6	593.55	408.65	114.3
3.0"	90.9	658	245.2	352.6	612.55	427.65	114.3



Options

- Inlet and outlet pressure gauge are available;
- Butterfly valve available with standard handle, pull rod or pneumatic actuator.

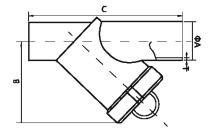






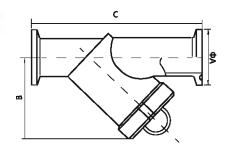
Y-Type filter (Weld)Material: 304/Seal: Silicone/lining: 80mesh

NO.	Size	A	В	C	Ī	
1439710-000025	DN25	28.0	95.0	125.0	1.5	
1439710-000032	DN32	34.0	104.0	140.0	1.5	
1439710-000040	DN40	40.0	110.0	165.0	1.5	
1439710-000050	DN50	52.0	140.0	195.0	1.5	
1439710-000065	DN65	70.0	185.0	230.0	2.0	
1439710-000080	DN80	85.0	220.0	280.0	2.0	
1439710-000100	DN100	104.0	248.0	340.0	2.0	



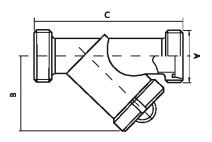
Y-Type filter (Clamp) Material: 304/Seal: Silicone/Lining: 80 mesh

NO.	Size	Α	В	C
1439700-000025	DN 25	50.5	95.0	125.0
1439700-000032	DN32	50.5	104.0	140.0
1439700-000040	DN40	50.5	110.0	165.0
1439700-000050	DN50	64.0	140.0	195.0
1439700-000065	DN65	91.0	185.0	230.0
1439700-000080	DN80	106.0	220.0	280.0
1439700-000100	DN100	119.0	248.0	340.0



Y-Type filter (Thread)Material: 304/Seal: Silicone/Lining: 80N

NO.	Size	A	B	C
1439720-000025	DN25	RD52X1/6	95.0	125.0
1439720-000032	DN32	RD58X1/6	104.0	140.0
1439720-000040	DN40	RD65X1/6	110.0	165.0
1439720-000050	DN50	RD78X1/6	140.0	195.0
1439720-000065	DN65	RD95X1/6	185.0	230.0
1439720-000080	DN80	RD110X1/6	220.0	280.0
1439720-000100	DN100	RD130X1/6	248.0	340.0





Applications:

Application fields of magnetic filter: Cylinder type magnetic filter mainly applies to removal of magnetic impurities in liquid sizing agent, is widely used in chemicals (industrial syrup, paper pulp and brine), pharmaceuticals (medicine online manufacturing and filtration), pigments, dyes, food (syrup, fruit juice, jams, edible oil), beverage, ceramics and other fields. The product has strong magnetism, good impurity removal effect, easy to clean, installation method is simple and flexible, simple disassembly. The magnetic rod is made of high magnetic NdFeB permanent magnetic material, its magnetic force is 5-20 times higher than that of similar conventional magnetic materials (ferrite or AlNiCo permanent magnetic material), can be used for removing 0.5µm tiny magnetic impurity particles. Our products can be continuously used for over ten years, surface finish is high; can meet the hygienic requirements of high cleanliness.

Working principle:

Install a magnetic Filtration Systems in the liquid transport pipeline and transmit the fluid medium into the Filtration Systems through the magnetic Filtration Systems via a number of flow ports, and then fully contact magnetic rod in the big pipe of the Filtration Systems with magnetic force of the magnetic fields as to completely absorb the magnetic metal impurities in fluid medium. Multi-flow port can change the direction of the original fluid and the large tube body can make the media longer contacting the rod. This design is more complete and effective than the contact of a general Filtration Systems in the process of removing impurities.

Technical data:

Over -flow parts: ALSI316L/304L

Other parts: ALSI304

Surface treatment: Ra≤0.8µm

Seal parts of overflow products: VITON, EPDM, TEFLON, SILICON

Connection: Clamp type, welded type, flanged type, threaded type (ACME, NPT)







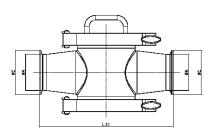






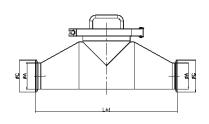
BS-C Cylinder type magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	Number of magnetic rods (Plece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
DN40	29	50.5	310.4	4			
DN50	41	50.5	368.4	4			
DN65	53	64	276.4	6	≤120°C	≥12,000	1Мра
DN80	70	91	503.7	6			
DN100	85	106	435.7	6			



BS-E Cylinder type magnetic filter

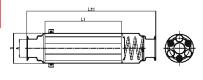
SIZE	A (mm)	C (mm)	L (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
DN40	29	50.5	475	4			
DN50	41	50.5	540	4			
DN65	53	64	407	4	≤120°C	≥12,000	1Мра
DN80	70	91	741	6			
DN100	85	106	555	6			





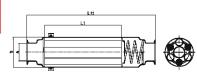
TS-N Magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	L1 (mm)	Number of magnetic rods (Piece)	Range of operating temperature (°C)	Magnetic force (GS)	Operating pressure (Mpa)
DN25	26	101.6	420	240	3	_		
DN40	38	101.6	420	240	3			
DN50	50	101.6	420	240	3	-400°C	>40.000	414
DN65	66	114.3	432	240	3	\$120 C	212,000	1Mpa
DN80	81	114.3	432	240	4			
DNI00	104	114.3	432	240	4			
	DN25 DN40 DN50 DN65	(mm) DN25 26 DN40 38 DN50 50 DN65 66 DN80 81	(mm) (mm) DN25 26 101.6 DN40 38 101.6 DN50 50 101.6 DN65 66 114.3 DN80 81 114.3	(mm) (mm) (mm) DN25 26 101.6 420 DN40 38 101.6 420 DN50 50 101.6 420 DN65 66 114.3 432 DN80 81 114.3 432	(mm) (mm) (mm) (mm) (mm) DN25 26 101.6 420 240 DN40 38 101.6 420 240 DN50 50 101.6 420 240 DN65 66 114.3 432 240 DN80 81 114.3 432 240	SIZE A (mm) C (mm) L (mm) L1 (mm) magnetic rods (Piece) DN25 26 101.6 420 240 3 DN40 38 101.6 420 240 3 DN50 50 101.6 420 240 3 DN65 66 114.3 432 240 3 DN80 81 114.3 432 240 4	SIZE A (mm) C (mm) L (mm) L1 (mm) magnetic rods (Piece) operating temperature (°C) DN25 26 101.6 420 240 3 DN40 38 101.6 420 240 3 DN50 50 101.6 420 240 3 DN65 66 114.3 432 240 3 DN80 81 114.3 432 240 4	SIZE A (mm) C (mm) L (mm) L1 (mm) magnetic rods (Piece) operating temperature (°C) Magnetic force (GS) DN25 26 101.6 420 240 3 DN40 38 101.6 420 240 3 DN50 50 101.6 420 240 3 DN65 66 114.3 432 240 3 DN80 81 114.3 432 240 4



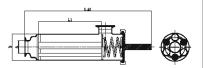
TS-L Magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	L1 (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
DN25	26	101.6	937	790	3	-		
DN40	38	101.6	937	790	3			
DN50	50	101.6	937	790	3	≤120°C	>40.000	414
DN65	66	114.3	963	790	3	2120 C	≥12,000	1Mpa
DN80	81	114.3	963	790	4			
DN100	104	114.3	432	240	4			



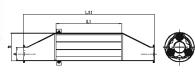
TS-A Magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	L1 (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
DN25	26	101.6	505	240	3			
DN40	38	101.6	510	240	3			
DN50	50	101.6	510	240	3	≤120°C	≥12.000	11400
DN65	66	114.3	520	240	3	2120 C	212,000	1Mpa
DN80	81	114.3	520	240	4			
DN100	104	114.3	432	240	4			



TS-B Magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	L1 (mm)	Number of magnetic rods (Piece)	Range of operating temperature (°C)	Magnetic force (GS)	Operating pressure (Mpa)
DN25	26	101.6	509	240	3			
DN40	38	101.6	459	240	3			
DN50	50	101.6	411	240	3	-400°C	>40.000	414
DN65	66	114.3	419	240	3	≤120°C	≥12,000	1Mpa
DN80	81	114.3	465	240	4			
DNI00	104	114.3	432	240	4			





KSV Sampling Valve

The Unique sampling valve is specially designed for the food and pharmaceutical and biotechnological industries. The valve is equipped with a double seat which make it possible to sterilize the entire seat between sampling, thereby elimination the risk of cross contamination.

KSV sampling valve body can design based on the assembling surface, can been welding as exist on tank, fitting, connecter. Exist branch can been different from the connection type, now matter it is soft tube, clamp connection, thread:

KSV sampling valve: rotate the handle, material is POM which can ensure the strength and will not too in high working temperature



Products

KSV-S6 sampling valve / KSV-SS6 CIP sampling valve

Low Viscosity: 0-200cp, particles diameter<2mm.

Application: brew, dairy, pharmaceutical, and industrial.

Suitable For : water, milk, brewery, cosmetically, oil, pharmaceutical.

KSV-SS9 CIP Sampling Valve

Low Viscosity: 0-200cp, particles diameter<2mm,
Application: brew, dairy, pharmaceutical, and biotechnology
Suitable For: milk, brewery, cosmetically, toothpaste

Sterilize

- 1, turn off the valve,
- 2, dry steam,
- 3,pressure 2bar,
- 4, temperature 121°C for one minutes

Sampling

turning on valve, retracts the valve stem and membrane seal and enables the product to flow freely through the open valve.

By utilizing the standard components and sampling, ensure the smooth work in condition(2 bar, 121°C)







Welding

- 1, the thickness of tank is less 4mm, welding inside
- 2, more than 4mm thickness of tank, welding uniform inside and outside:
- 3, welding on the fitting,
- 4, argon gas welding,
- 5, polish inside welding line, in case of the gasket material.

Maintains

100 time sampling, replace the sealing component, based on working temperature and experience to replace, sealing plug should reply per 6 months;

Installation the new sealing component, turn off the valve, position actually, insert the stick. When installation, do not hurt the sealing material avoiding the pollution.

KĽKING LAI

KSV-S6/SS6/SS9 Sampling valve

KL BioClean Sampling valves

Product wetted steel parts 316L Other steel parts 304

Seal materials PTFE/EPDM

Valve heads POM

Surface Finish Internally Ra≤0.5µm (SF1), ExternallyRa≤0.8µm

Max. pressure 0.6Mpa Min. pressure 0.04Mpa Temperature range -20℃~120℃

Sterilization temperature ≤ 121°C (Max20min)

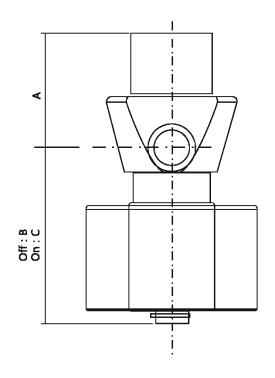
Connection weld, clamp

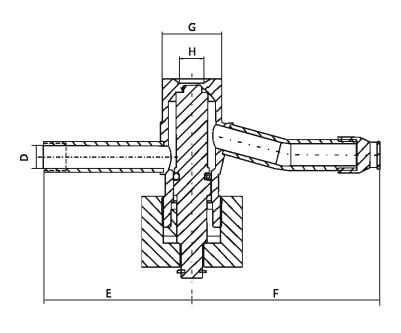


Size

No.	A	В	C	D	:	F	G	H	Trip
KSB-S6	24.5	49.5	5 1. 9	6	49.5	1	1 9	6	4
KSB-SS6	34.5	47	50.4	6	51	62.7	1 9	6	3.4
KSB-SS9	32	49.5	55	9	62	78.5	25	9	5.5

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KAV Pneumatic Arc Valve

Kinglai arc valves have been designed according to hygienic design guidelines to meet the high demands of process engineering applications. Arc valves are particularly for viscous/pasty products and fluids containing solid particles on account of a totally clear passage, as well as easy and thorough cleaning in place.

No dead ends

No dead pockets

Totally clear passage-no pressure loss

No product remainders or sticking of solid particles

Designed to be passed with Pigs

Minimum number of components and wearing parts

Can be completely dismantled even when welded in place

Optionally with 3-A approval/FDA



Technical Parameters

Product pressure Pressure behind arc: 0 ~ 10 Bar; Pressure against arc: 0 ~ 3 Bar

Operating temperature $-10^{\circ}\text{C} \sim 135^{\circ}\text{C}$ Size DN50~DN85

Shutter PTFE

Parts in contact with products CF3M 1.4409(316L)
Other parts in stainless steel AISI304/1.4301
O-ring seals EPDM、Viton
Outer surface sandblastina
Inner surface Ra \leq 0.8 μ m
Connection Weld, Clamp

Control method Pneumatic (90° /180° rotary cylinder)

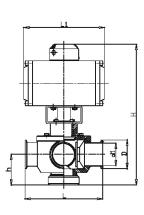
Interface standard 3A, DIN, ISO

THA three-way welded pneumatic arc valve

No.	SIZE	d1	d2		h	L	L1
15500X1-000200	2"	47.5	50.8	314	73	119	204
15500X1-000250	2.5"	60.2	63.5	339	80.5	141	262
15500X1-000300	3"	72.9	76.2	369	85.9	151	268

THA three-way clamp type pneumatic arc valve

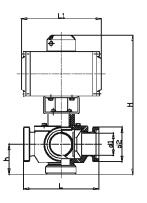
	- P - P -						
No.	SIZE	d1	d2	Н	h	L	L1
15501X1-000200	2"	47.5	64	314	73	162	204
15501X1-000250	2.5"	60.2	77.5	339	80.5	184	262
15501X1-000300	3"	72.9	91	369	85.9	265.4	268





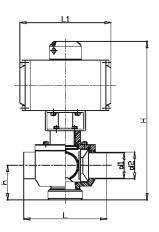
THA three-way thread type pneumatic arc valve

		-					
No.	SIZE	d1	d2	H	h	L	L1
15502X1-000200	2"	47.5	70	314	73	159	204
15502X1-000250	2.5"	60.2	85	339	80.5	163	262
15502X1-000300	3"	72.9	110	369	85.9	201	268



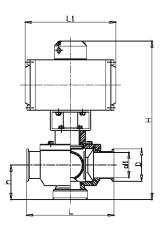
TWA two-way welded pneumatic arc valve

No.	SIZE	d1	d2	H	h	L	L1
1550301-000200	2"	47.5	50.8	314	73	119	204
1550301-000250	2.5"	60.2	63.5	339	80.5	141	262
1550301-000300	3"	72.9	76.2	369	85.9	151	268



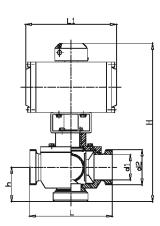
TWA two-way clamp type pneumatic arc valve

No.	SIZE	d1	d2	Н	h	Ĺ	L1	
1550401-000200	2"	47.5	64	314	73	162	204	
1550401-000250	2.5"	60.2	77.5	339	80.5	184	262	
1550401-000300	3"	72.9	91	369	85.9	265.4	268	



TWA two-way thread type pneumatic arc valve

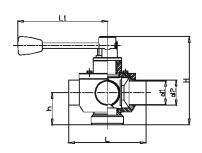
No.	SIZE	d1	d2	Н	h	Ĺ	L1
1550501-000200	2"	47.5	70	314	73	159	204
1550501-000250	2.5"	60.2	85	339	80.5	163	262
1550501-000300	3"	72.9	110	369	85.9	201	268





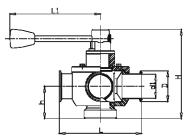
THA three-way welded manual arc valve

No.	SIZE	d1	d2	н	h	L	L1
15500X0-000200	2"	47.5	50.8	190	73	119	190
15500X0-000250	2.5"	60.2	63.5	215	80.5	141	190
15500X0-000300	3"	72.9	76.2	230	85.9	151	190



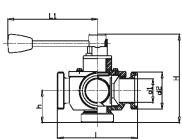
THA three-way clamp type manual arc valve

No.	SIZE	d1	d2	Ĭ	h	L	L1
15501X0-000200	2"	47.5	64	190	73	162	190
15501X0-000250	2.5"	60.2	77.5	215	80.5	184	190
15501X0-000300	3"	72.9	91	230	85.9	265.4	190



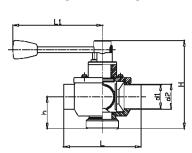
THA three-way thread type manual arc valve

No.	SIZE	d1	d2	Н	h	<u> </u>	L1
15502X0-000200	2"	47.5	70	190	73	159	190
15502X0-000250	2.5"	60.2	85	215	80.5	163	190
15502X0-000300	3"	72.9	110	230	85.9	201	190



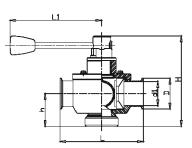
TWA two-way welded manual arc valve

No.	SIZE	d1	d2	Н	h	L	L1
15503X0-000200	2"	47.5	50.8	190	73	119	190
15503X0-000250	2.5"	60.2	63.5	215	80.5	141	190
15503X0-000300	3"	72.9	76.2	230	85.9	151	190



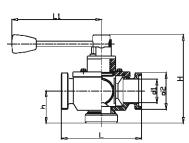
TWA two-way clamp type manual arc valve

No.	SIZE	d1	d2	H	h	L	L1
15504X0-000200	2"	47.5	64	190	73	162	190
15504X0-000250	2.5"	60.2	77.5	215	80.5	184	190
15504X0-000300	3"	72.9	91	230	85.9	265.4	190



TWA two-way thread type manual arc valve

No.	SIZE	d1	d2	H	h	L	L1
15505X0-000200	2"	47.5	70	190	73	159	190
15505X0-000250	2.5"	60.2	85	215	80.5	163	190
15505X0-000300	3"	72.9	110	230	85.9	201	190





KBV Sanitary Ball Valves

Application

KBV is a new type hygienic ball valve developed by King Lai and is designed for use as a product valve for the food, beverage, pharmaceutical and chemical industries. With full diameter design, without any fluid barrier, KBV becomes the best choice for viscous fluid or liquids with particle.

Working Principle

KBV ball valve consists of a ball with a circular channel as an opening and closing part. It is open when the ball's hole is in line with the flow and closed when it is pivoted 90-degrees. It is applicable to fully linear design of the valve to reduce the turbulence and pressure drop of the pipeline. An encapsulated seat option is available for critical process applications requiring maximum reduction of potential for product entrapment.

Standard design

The O-ring design and disc spring at mandrel are for better seal and easy operation. High platform design without stent and connecting shaft can save the installation time and cost of pneumatic actuator. The valve body is made of ASTM 316L stainless steel, valve seat is made of PTFE material, in line with USP6 and FDA certification. The seat is divided into standard and encapsulated type. The valve can be operated by a stainless steel handle or an pneumatic actuator and both of them can be equipped feedback elements. Pneumatic ball valve is divided into three types: normally closed (NC), normally open (NO), double action (DA).



Items Details

Operating temperature PTFE: -20~100°C

PTFE(TFM): -20~150°C

Ambient temperature -20~80°C, -4~176°F

Working pressure Refer to Pressure vs. Temperature diagram Automatic control unit Feedback device, locator, cylindrical

position sensor

Seat material PTFE, PTFE(TFM)

Seat form Standard, Encapsulated

(TFM/PEEK is standard only)

Material 1.4404, 1.4409 (CF3M, 316L) EN10088 Connections Butt-Weld, Clamp 3A, DIN, ISO, GB

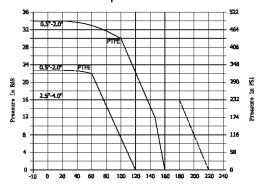
Size DN15~DN100

Surface treatment Outer surface electro-brightening

Inner surface Ra≤0.5µm(SF1), Ra≤0.375µm(SF4)

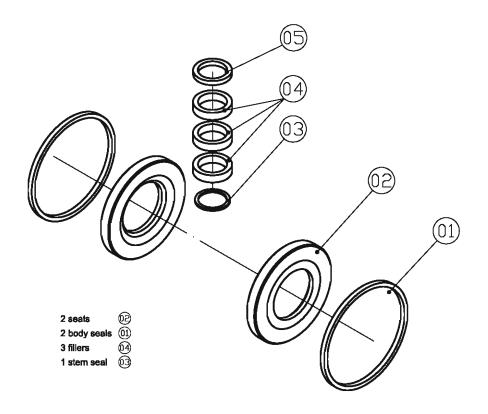
Certifications 3A, CE

Pressure vs. Temperature



SIP (stem in place) up to 150°C is possible but only when using PTFE, and without operating it. Any seal material must be 95°C before operating. When welding both flanges, make sure they are axially movable 30-40mm (depending on the specifications)

forvalve maintenance (seinstructions).



Seat	1	2	3	4	5
PTFE(standard / encapsulated)	PTFE	PTFE	PTFE	PTFE	Graphite
PTFE(TFM)	PTFE	PTFE(TFM)	PTFE	PTFE	Graphite







Encapsulated

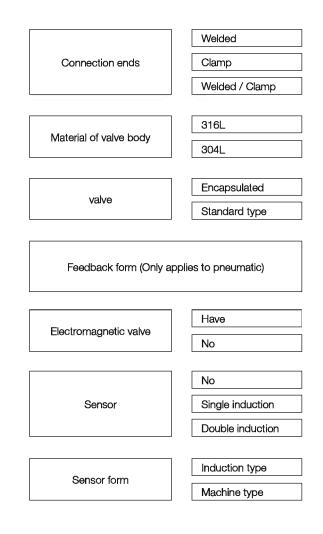


Minimum torque range of the actuator

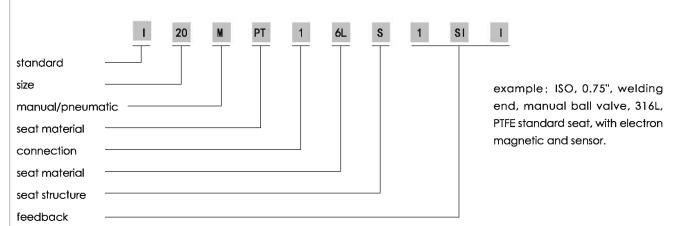
Pipe	Torque(kgf.m)
15.0	0.9
20.0	1.1
25.0	1.4
38.0	2.7
51.0	3.1
63.5	5.0
76 .1	7.3
101.6	10.7

Optional Configurations

Connection standard ISO 3A GB 0.5"	
Connection standard 3A GB	
3A GB	
0.5"	
0.75"	
1.0"	
1.5"	
Size of connector 2.0"	
2.5"	
3.0"	
4.0"	
Manual	
Pneuma	tic
Actuator	open
Pneuma	tic
normally	closed
Double a	action
straightv	vay
Body form	
Т-Туре	



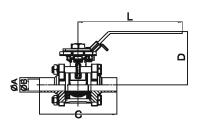
Code example





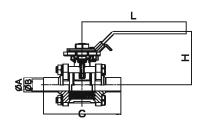
Manual ball valve (Welded) KBV-MW-S standard type

Code	Size	A	B	C	Taraba di Languagian di Angara di Languagian	L
1407021-000010	10	13	10	88.6	65.5	138.2
1407021-000015	15	19	16	102.7	69.8	138.2
1407021-000020	20	23	20	115.2	78.7	138.2
1407021-000025	25	29	26	120.6	78.7	138.2
1407021-000032	32	35	32	139.9	96.6	190.5
1407021-000040	40	41	38	139.9	96.6	190.5
1407021-000050	50	53	50	158.1	106.7	190.5
1407021-000065	65	70	66	198.0	142	293.3
1407021-000080	80	85	81	227.5	148.5	293.3
1407021-000100	100	104	100	241.0	179.4	293.3



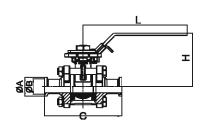
Manual ball valve (Welded) KBV-MW-E encapsulated

-	_		-			
Code	Size	A	B	C	Н	Ĺ
1407020-000010	10	13	10	88.6	65.5	138.2
1407020-000015	15	19	16	102.7	69.8	138.2
1407020-000020	20	23	20	115.2	78.7	138.2
1407020-000025	2 5	29	26	120.6	78.7	138.2
1407020-000032	32	35	32	139.9	96.6	190.5
1407020-000040	40	41	38	139.9	96.6	190.5
1407020-000050	50	53	50	158.1	106.7	190.5
1407020-000065	65	70	66	198.0	142	293.3
1407020-000080	80	85	81	227.5	148.5	293.3
1407020-000100	100	104	100	241.0	179.4	293.3



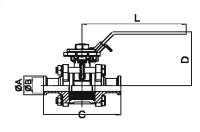
Manual ball valve (Clamp) KBV-MW-S standard type

Code	Size	A	В	C	Н	L
1407121-000010	10	34	10	88.6	65.5	138.2
1407121-000015	15	34	16	102.7	69.8	138.2
1407121-000020	20	34	20	115.2	78.7	138.2
1407121-000025	2 5	50.5	26	120.6	78.7	138.2
1407121-000032	32	50.5	32	139.9	96.6	190.5
1407121-000040	40	50.5	38	139.9	96.6	190.5
1407121-000050	50	64	50	158.1	106.7	190.5
1407121-000065	65	91	66	198.0	142	293.3
1407121-000080	80	106	81	227.5	148.5	293.3
1407121-000100	100	119	100	241.0	179.4	293.3



Manual ball valve (Clamp) KBV-MW-E encapsulated

Code	Size	A	3	C	H	L
1407120-000010	10	34	10	88.6	65.5	138.2
1407120-000015	15	34	16	102 <i>.</i> 7	69.8	138.2
1407120-000020	20	34	20	115.2	78.7	138.2
1407120-000025	25	50.5	26	120.6	78.7	138.2
1407120-000032	32	50.5	32	139.9	96.6	190.5
1407120-000040	40	50.5	38	139.9	96.6	190.5
1407120-000050	50	64	50	158.1	106.7	190.5
1407120-000065	65	91	66	198.0	142	293.3
1407120-000080	80	106	81	227.5	148.5	293.3
1407120-000100	100	119	100	241.0	179.4	293.3

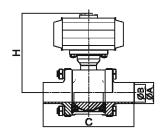




Pneumatic ball valve (Welded)

KBV-PW-S (single-action and double-action, optional) standard type

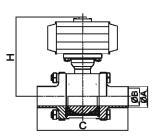
Code	Size	A	В	C	Н
1407321-000010	10	13	10	88.6	131.5
1407321-000015	15	19	16	102.7	135.8
1407321-000020	20	23	20	115.2	1 44.7
1407321-000025	25	29	26	120.6	148.2
1407321-000032	32	35	32	139.9	185.1
1407321-000040	40	41	38	139.9	185.1
1407321-000050	50	53	50	1 58. 1	204.4
1407321-000065	65	70	66	198.0	231.1
1407321-000080	80	85	81	227.5	254.5
1407321-000100	100	104	100	241.0	285.4



Pneumatic ball valve (Welded)

KBV-PW-E (single-action and double-action, optional) encapsulated

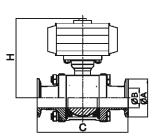
Code	Size	A.		C	Н
1407320-000010	10	13	10	88.6	131.5
1407320-000015	15	19	16	1 02.7	135.8
1407320-000020	20	23	20	115.2	1 44.7
1407320-000025	25	29	26	120.6	1 48.2
1407320-000032	32	35	32	139.9	185.1
1407320-000040	40	41	38	139.9	185.1
1407320-000050	50	53	50	158.1	204.4
1407320-000065	65	70	66	198.0	231 .1
1407320-000080	80	85	81	227.5	254.5
1407320-000100	100	104	100	241.0	285.4



Pneumatic ball valve (Clamp)

KBV-PW-S (single action and double action, optional) standard type

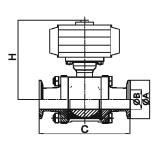
Code	Size	A	В	C	II
1407421-000010	10	34	10	88.6	131.5
1407421-000015	15	34	16	102.7	135.8
1407421-000020	20	34	20	1 15.2	144.7
1407421-000025	25	50.5	26	120.6	148.2
1407421-000032	32	50.5	32	139.9	185.1
1407421-000040	40	50.5	38	139.9	185.1
1407421-000050	50	64	50	158.1	204.4
1407421-000065	65	91	66	198.0	231.1
1407421-000080	80	106	81	227.5	254.5
1407421-000100	100	119	100	241.0	285.4



Pneumatic ball valve (Clamp)

KBV-PW-E (single-action and double-action, optional) encapsulated

Code	Size	A	В	C	1.11
1407420-000010	10	34	10	88.6	131.5
1407420-000015	15	34	16	1 02.7	135.8
1407420-000020	20	34	20	115.2	144.7
1407420-000025	25	50.5	26	120.6	148.2
1407420-000032	32	50.5	32	139.9	185.1
1407420-000040	40	50.5	38	139.9	185.1
1407420-000050	50	64	50	158.1	204.4
1407420-000065	65	91	66	198.0	231.1
1407420-000080	80	106	81	227.5	254.5
1407420-000100	100	119	100	241.0	285.4





Sanitary high platform three-way ball valve

Product introduction

Three-way ball valve has multiple-flow-direction control function and can turn on/off the valve, doesn't need to add the extra valve, thus it is very economical.

Applications

The valve adopts sanitary design, is widely used in food, pharmaceutical and other fields.

Tee can make three orthogonal pipes connect together and cut off the third channel, play a role in diverging and converging.

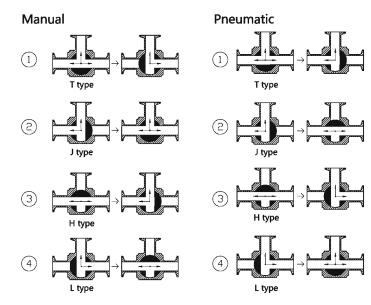
Four-sided valve seat sealing type, balanced force, and guarantee reliable sealing of channel.

Flow map

	-10°C ~ 120°C		PTFE		
Operating temperature	-10°C ~ 160°C	TFM			
Control method	Manı	ual control and pneu	umatic control		
Pneumatic control	Single action (SA)	Do	ouble action (DA)		
Controlling pressure	5-7 bar(NC)				
Automatic control unit	Feedback device	Positioner	Cylindrical position sensor		
Sealing material	PTFE/IFM				
Valve core form		T type			
Materials of valves body	CF8(304)/CF3M(316L)				
Interface form	Hoop - type				
Interface caliber	0.5" ~ 2.0"				
Surface treatment:	Outer surface electrolysis, inner surface: $Ra \le 0.8 \mu m$, $Ra \le 0.375 \mu m (SF4)$				
Codes and standards	Соі	nform to 3A, ISO, DI	N standards		

Select the code according to the customer demand

Manual T type: 01
Manual J type: 02
Manual L type: 03
Manual H type: 04
Pneumatic single action T type: 05
Pneumatic single action J type: 06
Pneumatic single action L type: 07
Pneumatic single action H type: 08
Pneumatic double action T type: 15
Pneumatic double action J type: 16
Pneumatic double action L type: 17
Pneumatic double action H type: 18





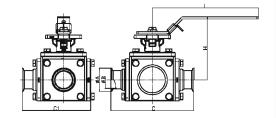




Clamp type manual ball valve

14171XX—XXXXXX (standard)

Code	Size	A	E	C	C1	L	H
000015	15	34	16	149	114.4	187	93.8
000020	20	34	20	149	114.4	187	93.8
000025	25	50.5	26	156.8	127.8	187	100.9
000040	40	50.5	38	188.8	146.8	190.5	114.2
000050	50	64	50	229	189	293.3	168



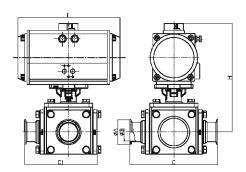
Note: Please replace XX with the corresponding codes, replace XXXXXX with the codes of standard combination; and then place an order.

Clamp type pneumatic ball valve

14171XX—XXXXXX (standard)

Code	Size	A	В	C	C1	L	H
000015	15	34	16	149	114.4	147	184.6
000020	20	34	20	149	114.4	147	184.6
000025	25	50.5	26	156.8	127.8	204	233.7
000040	40	50.5	38	188.8	146.8	204	247.2
000050	50	64	50	229	189	262	318

Note: Please replace XX with the corresponding codes, replace XXXXXX with the codes of standard combination; and then place an order.





KBFV Hygienic Butterfly Valve

KBFV is a Hygienic pneumatically or manually operated butterfly valve for use in stainless steel pipe systems. Due to their large opening areas, the valves offer low flow resistance and provide gentle treatment of low and medium viscosity product. The valve is the main solution of modern processing technology.

The actuator is made in three standard versions, normally closed (NC), normally open (NO) and air/air activated (A/A).

A 90° rotation of the valve stem is transferred to the stainless steel disc and thereby opening or closing the valve. When the valve disc contacts the seal ring, the torque will be in increased.



KBFV-MM: Multipositioning handle KBFV-ML: Lockable Multiposition Handle

KBFV-MR: Regulating handle



EHEDG has authorised the use of the EHEDG Certification logo for KingLai equipment complying withthe EHEDG hygienic design criteria. The Certification include cleanability testing of equipment according to the methodology described inEHEDG guidelines.

Feature

- · Fire Protecting, long lifetime, No-maintenance
- ·Special sealing design, No liquid residue, EHEDG certified
- · Finish open and close within 1s under 80psi air pressure
- · Over 100,000 times safety testing
- · Circulation time of actuator can be adjusted by air valve freely.
- ·Can be set feedback sign per your request

Pressure ranges (kg/cm²)

Size	In 20 ℃
1.0	9.6
1.5	9.6
2.0	9.6
2.5	7.5
3.0	7.5
4.0	5.8

Torque ranges

Size	Torque (Kgf.m)
1.0	0.3
1.5	0.4
2.0	0.5
2.5	1.5
3.0	2
4.0	2.5
5.0	3
6.0	3.5
8.0	4.5

Seal Ring

Feature	EPDM	Viton	Silicone
Temperature Range	-48~135℃	-29~204℃	-62~232℃
Acid Resistance	Good-Excellent	Good	Good
Alkalí Resistance	Good-Excellent	Poor-Good	Poor-Fair
Gasoline Resistance	Poor-Fair	Good-Excellent	Good
Diesel Resistance	Good	Good-Excellent	Good
Abrasion Resistance	Good-Excellent	Good	Good-Excellent
Compression Set	Fair	Good-Excellent	Good-Excellent

$\hbox{``Good-Excellent>Good>Poor-Good>Fair>Poor-Fair}\\$

Air consumption ranges (kg/cm²)

Size	Air Pressure	In 6.2kg/cm ² , air consumption
1.0	0.5	1.3
1.5	0.7	1.3
2.0	1.1	1.3
2.5	2.2	1.3
3.0	2.6	1.3
4.0	3.9	2.7



Selection table



DIN	D
ISO	
3A	Α
BPE	В



Welding ends	1
clamp/clamp	2
Welding/clamp	3
Two male parts	4
Male part/Welding ends	5
Male part/clamp	6



1.0"	25
1.5"	40
2.0"	50
2.5"	65
3.0"	80
4.0''	100

Sealing i	Material

EPDM	E
Viton	٧
Silicone	S

Feedback Type(only for pneumatic)

Actuator Type

Lockable Multiposition Handle	L
Multipositioning handle	М
Regulating handle	R
Normally Open	NO
Normally Closed	NC
Air/Air	AA

Magnetic	Valve

Have	1
None	0

Mullipositioning nariale	M
Regulating handle	R
Normally Open	NO
Normally Closed	NC
Air/Air	AA



None	N
Single Indicator	SI
Double Indicator	DI

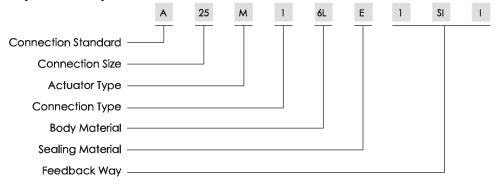
Body Material

316L	6L
304L	4L

Sensor Type

Sensor Indicator	
periser irraicarer	'
Mechanical Type	М

Option samples:



Remark: 3A, 1.0" weld, Multipositioning handle butterfly valve, 316L, EPDM Sealing Material, with magnetic valve and single sensor.

Remark: 1, Request about GMP & DMP valve, Please contact with Kinglai: 2, if the valve with feedback device used in dangerous area, please inform the anti-explosion lever of electronic components:



KBFV-P with pneumatically operated

KingLai Hygienic Butterfly Valves

Technical Data

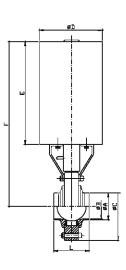
Items	Details
Operating temperature	EPDM: -40~130°C VITON: -20~200°C SILICON: -60~230°C
Ambient temperature	-10~ 9 5°C
Pneumatic pressure	6±1bar
Body material	1.4404(316L), 1.4307(304L) EN10088, forging
Bushing material	PVDF
Other parts	1.4301(304) EN10088
Connections	Butt-Weld, Clamp, flange, thread 3A, DIN, ISO, GB
Size	DN25~DN200
Surface treatment	Outer surface Ra≤2.4µm Inner surface Ra≤0.8µm
Certifications	EHEDG, CE,TS





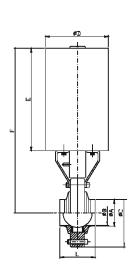
KBFV-PW:Welding ends ,NC

NO.	SIZE	L±0.5	A	В	C	D	E
1401300-000028	25	40	28	25	67	83.5	133.5
1401300-000029	25	40	29	26	67	83.5	133.5
1401300-000032	32	42	34	31	77	83.5	133.5
1401300-000035	32	42	35	32	77	83.5	133.5
1401300-000040	40	50	40	37	77	83.5	133.5
1401300-000041	40	50	41	38	77	83.5	133.5
1401300-000050	50	50	52	49	90	83.5	133.5
1401300-000053	50	50	53	50	90	83.5	133.5
1401300-000065	65	50	70	66	108.5	83.5	133.5
1401300-000080	80	60	85	81	127.1	83.5	133.5
1401300-000100	100	64	104	100	140	101.6	158.5



KBFV-PW:Welding ends ,A/A

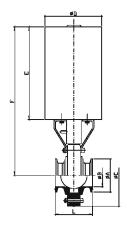
NO.	SIZE	L±0.5	A	В	C	D	Ē
1401301-000028	25	40	28	25	67	83.5	133.5
1401301-000029	25	40	29	26	67	83.5	133.5
1401301-000032	32	42	34	31	77	83.5	133.5
1401301-000035	32	42	35	32	77	83.5	133.5
1401301-000040	40	50	40	37	77	83.5	133.5
1401301-000041	40	50	41	38	77	83.5	133.5
1401301-000050	50	50	52	49	90	83.5	133.5
1401301-000053	50	50	53	50	90	83.5	133.5
1401301-000065	65	50	70	66	108.5	83.5	133.5
1401301-000080	80	60	85	81	127.1	83.5	133.5
1401301-000100	100	64	104	100	140	101.6	158.5





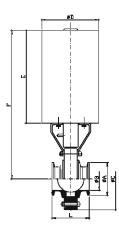
KBFV-PC:Clamp ends ,NC

NO.	SIZE	L±0.5	A		C	D	E
1401400-000028	25	83	50.5	25	67	83.5	133.5
1401400-000029	25	83	50.5	26	67	83.5	1 33.5
1401400-000032	32	85	50.5	31	77	83.5	133.5
1401400-000035	32	85	50.5	32	77	83.5	133.5
1401400-000040	40	93	50 <i>.</i> 5	37	77	83.5	133.5
1401400-000041	40	93	50.5	38	77	83.5	133.5
1401400-000050	50	93	64.0	49	90	83.5	133.5
1401400-000053	50	93	64.0	50	90	83.5	133.5
1401400-000065	65	106	91.0	66	108.5	83.5	133.5
1401400-000080	80	116	106.0	81	127.1	83.5	1 33.5
1401400-000100	100	120	119.0	100	1 40	101.6	1 58.5



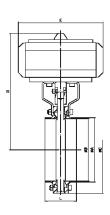
KBFV-PC:Clamp ends ,A/A

NO.	SIZE	L±0.5	A		C	D	E
401401-000028	25	83	50.5	25	67	83.5	133.5
401401-000029	25	83	50.5	26	67	83.5	133.5
1401401-000032	32	85	50.5	31	77	83.5	133.5
1401401-000035	32	85	50.5	32	77	83.5	133.5
1401401-000040	40	93	50.5	37	77	83.5	133.5
1401401-000041	40	93	50.5	38	77	83.5	133.5
1401401-000050	50	93	64.0	49	90	83.5	133.5
1401401-000053	50	93	64.0	50	90	83.5	133.5
1401401-000065	65	106	91.0	66	108.5	83.5	133.5
1401401-000080	80	116	106.0	81	127.1	83.5	1 33. 5
1401401-000100	100	120	119.0	100	140	101.6	158.5



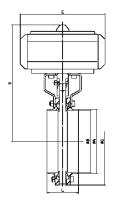
KBFV-PW:Welding ends ,NC

NO.	SIZE	L±0.5	A	В	C	D	=
1401300-000125	125	80	129	125	181	319	268
1401300-000150	150	78	154	150	218	341	268
1401300-000200	200	100	204	200	276	368	268



KBFV-PC:Welding ends ,A/A

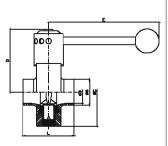
NO.	SIZE	L±0.5	A		C	D	E
1401301-000125	125	80	129	125	181	319	268
1401301-000150	150	78	154	150	218	341	268
1401301-000200	200	100	204	200	276	368	268





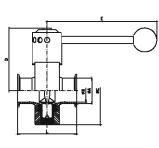
KBFV-MM: Multipostioning handle, Welding ends

NO.	SIZE	L±0.5	A	В	C	D	E
1401008-000028	25	40	28	25	67	72	134
1401009-000029	25	40	29	26	67	72	134
1401008-000032	32	42	34	31	77	78	134
1401009-000035	32	42	35	32	77	78	134
1401008-000040	40	50	40	37	7 7	78	134
1 401009-00004 1	40	50	41	38	7 7	<i>7</i> 8	134
1401009-000050	50	50	52	49	90	83	134
1401009-000053	50	50	53	50	90	83	134
1401008-000065	65	50	70	66	108.5	93	134
1401008-000080	80	60	85	81	127.1	104	134
1401008-000100	100	64	104	100	140	109	134
1401008-000125	125	80	129	125	181	140	319
1401008-000150	150	78	1 54	150	218	1 72	319
1401008-000200	200	100	204	200	276	201	319



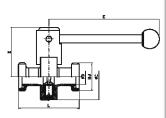
KBFV-MM: Multipostioning handle, Clamp/Clamp

4 - 14U41.14tOIIIposiio	illig ilalia	ie, Ciamp	Cidilip				
NO.	SIZE	L±0.5	A	В	C	D	Ē
1401008-000028	25	83	50.5	25	67	72	134
401009-000029	25	83	50.5	26	67	72	134
401008-000032	32	85	50.5	3 1	77	78	134
401009-000035	32	85	50.5	32	77	<i>7</i> 8	134
1401008-000040	40	93	50.5	37	77	78	134
401009-00004 1	40	93	50.5	38	7 7	78	134
401009-000050	50	93	64.0	49	90	83	134
401009-000053	50	93	64.0	50	90	83	134
401008-000065	65	106	91.0	66	108.5	93	134
401008-000080	80	116	106.0	8 1	127.1	104	134
401008-000100	100	120	119.0	100	140	109	134
401008-000125	125	1 36	1 29	125	181	140	319
401008-000150	150	134	1 54	150	218	1 72	319
401008-000200	200	156	204	200	276	201	319
1501101-000100	101.6	91.6	11 9	97.6	140	1 09	134



KBFV-MM:Multipostioning handle,Two male parts

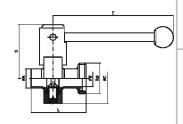
NO.	SIZE	L±0.5	RD	В	С	D	E	
1401008-000028	25	80	28	25	67	72	134	
1401009-000029	25	80	29	26	67	72	44	
1401008-000032	32	80	34	31	7 7	78	134	
1401009-000035	32	80	35	32	77	78	104	
1401008-000040	40	80	40	37	77	78	134	
1401009-000041	40	80	41	38	77	78	∄4	
1401009-000050	50	80	52	49	90	83	134	
1401009-000053	50	80	53	50	90	83	34	
1401008-000065	65	80	70	66	108.5	93	134	
1401008-000080	80	100	85	8 1	127.1	104	34	
1401008-000100	100	100	104	100	140	1 09	134	





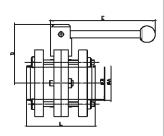
KBFV-MM:Multipostioning handle,Male/Welding end

NO.	SIZE	L±0.5	RD	A	B	C	D	E
1401008-000028	25	60	28	28	25	67	72	134
1401009-000029	25	60	29	29	26	67	72	134
1401008-000032	32	61	34	34	31	77	78	134
1401009-000035	32	61	35	35	32	77	78	134
1401008-000040	40	65	40	40	37	77	78	134
1401009-000041	40	65	41	41	38	77	78	134
1401009-000050	50	65	52	52	49	90	83	134
1401009-000053	50	65	53	53	50	90	83	134
1401008-000065	65	65	70	70	66	108.5	93	134
1401008-000080	80	80	85	85	8 1	127.1	104	134
1401008-000100	100	81	104	104	100	140	109	134



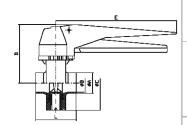
KBFV-MF:Multipostioning handle,Three panel welding ends

NO.	SIZE	L±0.5	A	В	D	E
1401011-000028	25	100	28	25	77	134
1401011-000029	25	100	29	26	77	134
1401011-000032	32	100	34	31	82	134
1401011-000035	32	100	35	32	82	134
1401011-000040	40	100	40	37	82	134
1401011-000041	40	100	41	38	82	134
1401011-000050	50	100	52	49	88	134
1401011-000053	50	100	53	50	88	134
1401011-000065	65	100	70	66	98	134
1401011-000080	80	100	85	8 1	108	134
1401011-000100	100	100	104	100	115	134



KBFV-ML:lockable Multiposition Handle, Welding ends

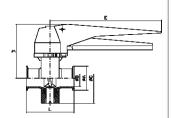
NO.	SIZE	L±0.5	A	3	C	D	E
1401000-000028	25	40	28	25	67	73	150
1401000-000029	25	40	29	26	67	73	150
1401000-000032	32	42	34	31	77	79	150
1401000-000035	32	42	35	32	77	79	150
1401000-000040	40	50	40	37	77	79	150
1401000-000041	40	50	41	38	77	79	150
1401000-000050	50	50	52	49	90	85	150
1401000-000053	50	50	53	50	90	85	150
1401000-000065	65	50	70	66	108.5	94	150
1401000-000080	80	60	85	81	127.1	105	150
1401000-000100	100	64	104	100	140	110	150
1401000-000125	125	80	129	125	181	182	351
1401000-000150	150	78	154	150	218	201	351
1401000-000200	200	100	204	200	276	230	351





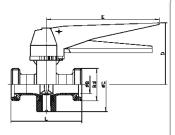
KBFV-ML:lockable Multiposition Handle, Clamp/Clamp

		Children and Michael	6000	1997	700-0	1000	1966
NO.	SIZE	L±0.5	A	B	C	D	Ē
1401105-000028	25	83	50.5	25	67	73	150
1401105-000029	25	83	50.5	26	67	73	150
1401105-000032	32	85	50.5	31	77	79	150
1401105-000035	32	85	50.5	32	77	79	150
1401105-000040	40	93	50.5	37	7 7	<i>7</i> 9	150
1401105-000041	40	93	50.5	38	7 7	7 9	150
1401105-000050	50	93	64.0	49	90	85	150
1401105-000053	50	93	64.0	50	90	85	150
1401105-000065	65	106	91.0	66	108.5	94	150
1401105-000080	80	116	106.0	8 1	127.1	105	150
1401105-000100	100	120	119.0	100	140	110	150
1401105-000125	125	136	1 29	125	181	182	351
1401105-000150	150	134	1 54	150	218	201	351
1401105-000200	200	156	204	200	276	230	351



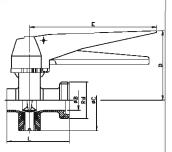
KBFV-ML:lockable Multiposition Handle, Two male parts

NO.	SIZE	L±0.5	RD	В	С	D	Ē
1401200-000028	25	80	28	25	67	72	134
1401200-000029	25	80	29	26	67	72	134
1401200-000032	32	80	34	31	77	<i>7</i> 8	134
1401200-000035	32	80	35	32	77	<i>7</i> 8	134
1401200-000040	40	80	40	37	77	<i>7</i> 8	134
1401200-000041	40	80	41	38	7 7	<i>7</i> 8	134
1401200-000050	50	80	52	49	90	83	134
1401200-000053	50	80	53	50	90	83	134
1401200-000065	65	80	70	66	108.5	93	134
1401200-000080	80	100	85	8 1	127.1	104	134
1401200-000100	100	100	104	100	140	109	134



KBFV-ML:lockable Multiposition Handle, Male part/Welding end

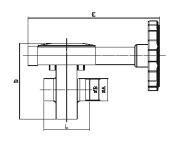
NO.	SIZE	L±0.5	RD	A	В	C	D	E
1401501-000028	25	60	28	28	25	67	73	150
1401501-000029	25	60	29	29	26	67	73	150
1401501-000032	32	61	34	34	3 1	77	79	150
1401501-000035	32	6 1	35	35	32	77	79	150
1401501-000040	40	65	40	40	37	77	79	150
1401501-000041	40	65	4 1	4 1	38	77	79	150
1401501-000050	50	65	52	52	49	90	85	150
1401501-000053	50	65	53	53	50	90	85	150
1401501-000065	65	65	70	70	66	108.5	94	150
1401501-000080	80	80	85	85	8 1	1 27. 1	105	150
1401501-000100	100	8 1	104	104	100	140	110	150





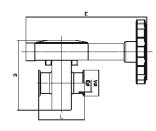
KBFV-MR:Regulation Handle, Welding ends

NO.	SIZE	L±0.5	A	3	D	E	
1401000-000028	25	40	28	25	86.87	149.5	
1401000-000029	25	40	29	26	86.87	149.5	
1401000-000032	32	42	34	31	96.87	149.5	
1401000-000035	32	42	35	32	96.87	149.5	
1401000-000040	40	50	40	37	96.87	149.5	
1401000-000041	40	50	41	38	96.87	149.5	
1401000-000050	50	50	52	49	109 <i>.</i> 5	149.5	
1401000-000053	50	50	53	50	109.5	149.5	
1401000-000065	65	50	70	66	128	149.5	
1401000-000080	80	60	85	8 1	146.6	149.5	
1401000-000100	100	64	104	100	15 9 .5	149.5	



KBFV-MR:Regulation Handle,Clamp/Clamp

V8758	72 151722 VE						
NO.	SIZE	L±0.5	A	В	D	Ē	
1401105-000028	25	83	50.5	25	86.87	149.5	
1401105-000029	25	83	50.5	26	86.87	149.5	
1401105-000032	32	85	50.5	31	96.87	149.5	
1401105-000035	32	85	50.5	32	96.87	149.5	
1401105-000040	40	93	50.5	37	96.87	149.5	
1401105-000041	40	93	50.5	38	96.87	149.5	
1401105-000050	50	93	64.0	49	109.5	149.5	
1401105-000053	50	93	64.0	50	109.5	149.5	
1401105-000065	65	106	91.0	66	128	149.5	
1401105-000080	80	116	106.0	8 1	146.6	149.5	
1401105-000100	100	120	119.0	100	159.5	149.5	





KPV Hygienic Piston Valve

KPV is an extremely reliable and hygienic design for stopping or diverting flow in single or multi-directional systems.

KPV is a pneumatic seat valve in a hygienic and modular design for a wide field of duties, e.g. as a shut-off valve with two (2) or three(3) ports or as a change-over valve with three (3) to five (5) ports. Thevalve is remote-controlled by means of compressed air. It has few and simple moveable parts which results in a very reliable valve and low maintenance cost.

To ensure a high degree of flexibility the valve seat between the two bodies in the Change-over version is loose. The valve features an optimized life span of the seals through a defined compression design. The actuator is connected to the valve body using a yoke and all components are assembled with clamp ring.



Feature(Pneumatically operated)

- ·\$\$316L applied to valve body, high thickness for controlling ball design guarantee the satiability.
- •Tri-clamp joint makes multiple assemblies possible, simple design and easy to operate.
- · Certified by 3A
- · All parts contact with product can be cleaned separately.
- ·Signal feedback device is available upon request.
- \cdot Valve body can turn around 180degree, NO/NC is available.

Feature(Manually operated)

It's been used widely in controlling pressure and flow rate, and different assembly is available upon request, like 2-3 for Shut-off valve, or 3-5 for changeover valve.

Flow Direction

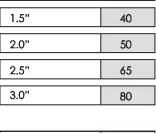


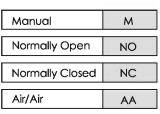


Selection table

	DIN
Connection Standard	ISO
	3A

1.0"	25
1.5"	40
2.0"	50
2.5"	65
3.0"	80





Actuator Type

L-L Type	1
T-L Type	2
Т-Т Туре	3
L Type	4
Т Туре	5
L-T Type	6

Connection Type

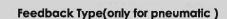
ne	welding e	nds 1	
	clamp/cla	amp 2	
		101	

Body Material

316L	6L
304L	4L

Sealing Material

EPTM+PTFE	EP
Silicone+PTFE	SP
Viton+PTFE	VP



Magnetic Valve	е
magnetic rain	

Have	111
None	0

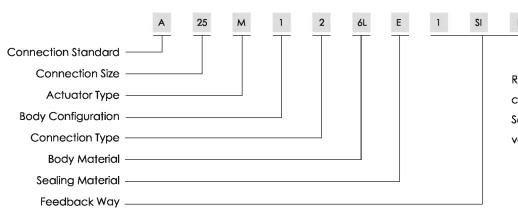
Sensor

None	N
Single Indicator	SI
Double Indicator	DI

Sensor Type

Sensor Indicator	
Mechanical Type	М

Option samples:



Remark: 3A, 1.0" piston valve, clamp/clamp, 316L, EPTM+PTFE Sealing Material, with magnetic valve and single sensor.

Remark: 1, Request about GMP & DMP valve, Please contact with Kinglai: 2, if the valve with feedback device used in dangerous area, please inform the anti-explosion lever of electronic components:

KPV-P with pneumatically operated

KingLai Hygienic Piston Valves

Working Pressure 0-10 bar

Working Temp. -40~140°C (Standard), -40~120°C (Encapsulated)

Actuator pneumatically operated:

Normally Open (NO) , Normally Closed (NC) , Air/Air (A/A)

Seal Material EPDM / Viton / Silicone

Body Design L-L Type, T-L Type, T-T Type, L Type, T Type, L-T Type

Body Material 316L (EN1.4409 CF3M), 304 (EN1.4308)

Port Size DN25~DN80

Connection Welding ends, Clamp/Clamp

SurfaceFinish outside surface sanding, Internally Ra≤0.8µm

Connection Standard DIN, ISO, 3A, JIS

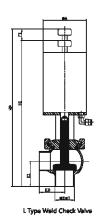


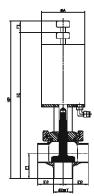
Valve Body compositions

L 200	T 300	L-L 210	T-L 220	L-T 310	T-T 320
DIN:1426411	DIN:1426511	DIN:1426111	DIN:1426211	DIN:1426611	DIN:1426311
DIN:1426412	DIN:1426512	DIN:1426112	DIN:1426212	DIN:1426612	DIN:1426312

L 2001	T 3002	L-L2102	T-L 2203	L-T 3103	T-T 3204
DIN:1426431	DIN:1426531	DIN:1426311	DIN:1426231	DIN:1426631	DIN:1426331
DIN:1426432	DIN:1426532	DIN:1426132	DIN:1426232	DIN:1426632	DIN:1426332

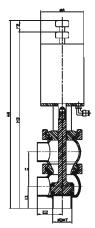


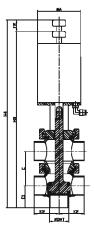




KPV-PW:L-type, T-type divert seat valve with welding ends

NO	SIZE	ODXT(DIN)	ODXT(11850-2)	E1	E2	H1	H2	F1	Ø A
XXXXXXX-000025	25	28x1.5	29x1.5	49.5	49.5	285	301	16	85
XXXXXXX-000032	32	34x1.5	35x1.5	49.5	49.5	289	316	27	85
XXXXXXX-000040	40	40x1.5	41x1.5	49 .5	49.5	289	316	27	85
XXXXXXX-000050	50	52x1.5	53x1.5	61.0	61.0	31 1	342	31	1 04
XXXXXXX-000065	65	70x2.0	70x2.0	81.0	81.0	397	436	39	154
XXXXXXX-000080	80	85x2.0	85x2.0	86.0	86.0	406	448	42	154





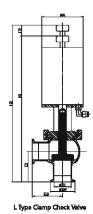
L-L Type Weld Regulating Seat Valve

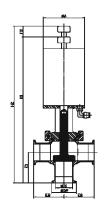
T-T Type Weld Divert Seat Valve

KPV-PW:L-L type, T-T type divert seat valve with welding ends

NO	SIZE	ODXT(DIN)	ODXT(11850-2)	E1	E2	C	НЗ	H4	F2	Ø A
XXXXXXX-000025	25	28x1.5	29x1.5	49.5	49.5	56	340	352	12	85
XXXXXXX-000032	32	34x1.5	35x1.5	49.5	49.5	67	356	375	19	85
XXXXXXX-000040	40	40x1.5	41x1.5	49.5	49.5	67	356	375	19	85
XXXXXXX-000050	50	52x1.5	53x1.5	61.0	61.0	84	397	421.5	24.5	104
XXXXXXX-000065	65	70x2.0	70x2.0	81.0	81.0	107	505	525.5	20.5	154
XXXXXXX-000080	80	85x2.0	85x2.0	86.0	86.0	12 1	527	553	26	1 54



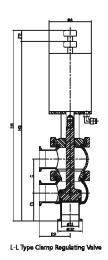


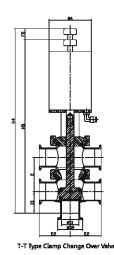


T Type Clamp Check Valv

KPV-PC:L-type, T-type divert seat valve with clamp ends

NO	SIZE	D1(DIN)	D1(DIN11850-2)	D2	E1	E2	H1	H2	F2	ØA
XXXXXXX-000025	25	25	26	50.5	71.0	71.0	306.5	322.5	16	85
XXXXXXX-000032	32	31	32	50.5	71.0	71.0	310.5	337.5	27	85
XXXXXXX-000040	40	37	38	50.5	71.0	71.0	310.5	337.5	27	85
XXXXXXX-000050	50	49	50	64.0	82.5	82.5	332.5	363.5	31	104
XXXXXXX-000065	65	-	66	91.0	109.0	109.0	425	464	39	154
XXXXXXX-000080	80	-	81	106.0	114.0	114.0	434	476	42	154





KPV-PC:L-L type, T-T type divert seat valve with clamp ends

NO	SIZE	D1(DIN)	D1(11850-2)	D2	E1	E2	C	НЗ	H4	F2	ØA
XXXXXXX-000025	25	25	26	50.5	71.0	71.0	56	361.5	373.5	12	85
XXXXXXX-000032	32	31	32	50.5	71.0	71.0	67	377.5	396.5	19	85
XXXXXXX-000040	40	37	38	50.5	71.0	71.0	67	377.5	396.5	19	85
XXXXXXX-000050	50	49	50	64.0	82.5	82.5	84	418.5	443	24.5	104
XXXXXXX-000065	65	-	66	91.0	109.0	109.0	107	533	553.5	20.5	154
XXXXXXX-000080	80	-	81	106.0	114.0	114.0	121	555	581	26	154

KLKING LAI

KPV-M with manually operated

KingLai Hygienic Piston Valves

Working Pressure 0-10 bar

Working Temp. -40~140℃

Actuator manually operated

Seal Material EPDM / Viton / Silicone

Body Design L-L Type, T-L Type, T-T Type,

L Type, T Type, L-T Type

316L (EN1.4409 CF3M), 304 (EN1.4308) **Body Material**

1.0"~ 3.0" **Port Size**

Connection Welding ends, Clamp/Clamp

SurfaceFinish outside surface sanding, Internally Ra≤0.8µm

Connection Standard DIN, ISO, 3A, JIS



Valve Body compositions

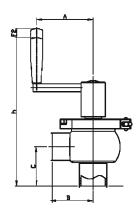
L200	T 300	L-L 210	T-L 220	L-T 310	T-T 320
DIN:1426413	DIN:1426513	DIN:1426113	DIN:1426213	DIN:1426613	DIN:1426313
DIN:1426423	DIN:1426523	DIN:1426123	DIN:1426223	DIN:1426623	DIN:1426323

L2001	T 3002	L-L 2102	T-L 2203	L-T 3103	T-T 3204
DIN:1426433	DIN:1426533	DIN:1426133	DIN:1426233	DIN:1426633	DIN:1426333
DIN:1426443	DIN:1426543	DIN:1426143	DIN:1426243	DIN:1426643	DIN:1426343



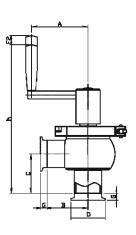
KPV-MW:L-type Manual Divert Seat Valve with welding ends

NO	SIZE	ODxT	A	B	C	F2	G	Н
XXXXXXX-000032	32	34/35X1.5	105	49.5	49.5	22	21.5	153
XXXXXXX-000040	40	40/41X1.5	105	49.5	49.5	22	12.7	153
XXXXXXX-000050	50	52/53X1.5	105	61	61	30	12.7	166
090000-XXXXXXX	65	70X2	1 05	81	81	30	12.7	218
XXXXXXX-000080	80	85X2	1 05	86	86	30	12.7	214



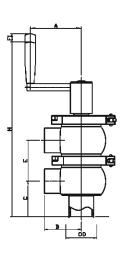
KPV-MC:L-type Manual Divert Seat Valve with clamp ends

NO	SIZE	A	В	C	D	F2	G	П
XXXXXXX-000032	32	105	49.5	49.5	50.4	22	21.5	153
XXXXXXX-000040	40	105	49.5	49.5	50.4	22	12.7	153
XXXXXXX-000050	50	105	61	6 1	63.9	30	12.7	166
XXXXXXX-000060	65	105	81	81	77.5	30	12.7	218
XXXXXXX-000080	80	105	86	86	90.9	30	12 <i>.</i> 7	214



KPV-MW:L/L Type Manual Divert Seat Valve with welding ends

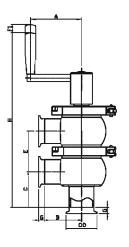
NO	SIZE	Α	В	C	OD	E	F1	G	H
XXXXXXX-000100	1"	105	49.5	49.5	50.4	66	1 <i>7</i>	12.7	222
XXXXXXX-000150	1 .5 "	105	49.5	49 .5	50.4	66	17	12.7	222
XXXXXXX-000200	2"	105	61	61	63.9	84	24	12.7	252
XXXXXXX-000250	2.5"	105	81	81	77.5	106.5	24	12.7	328
XXXXXXX-000300	3"	105	86	86	90.9	120	27	12.7	337





KPV-MC:L/L Type Manual Divert Seat Valve with clamp ends

NO	SIZE	ODxT	A	В	C	E	F1	G	Li.
XXXXXXX-000032	32	34/35X1.5	105	49.5	49.5	5 6	1 <i>7</i>	21.5	222
XXXXXXX-000040	40	40/41X1.5	105	49.5	49.5	67	17	2 1.5	22 1
XXXXXXX-000050	50	52/53X1.5	105	61	6 1	84	24	21.5	252
XXXXXXX-000060	65	70X2	105	81	8 1	1 07	24	21.5	328
XXXXXXX-000080	80	85X2	105	86	86	121	27	21.5	338



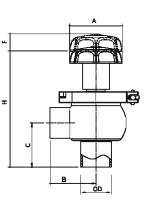






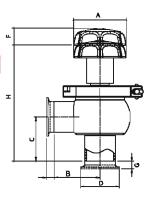
KPV-MW:L-type Manual regulating Seat Valve with welding ends

NO	SIZE	A	В	C	OD	E	F1	G	Н
XXXXXXX-000032	32	105	49.5	49.5	50.4	56	17	21.5	222
XXXXXXX-000040	40	105	49.5	49.5	50.4	67	1 7	21.5	22 1
XXXXXXX-000050	50	105	61	61	63.9	84	24	21.5	252
090000-XXXXXX	65	105	8 1	81	7 7.5	107	24	21.5	328
XXXXXXX-000080	80	105	86	86	90.9	1 21	27	2 1.5	338



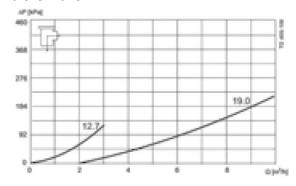
KPV-MC:L-type Manual regulating Seat Valve with clamp ends

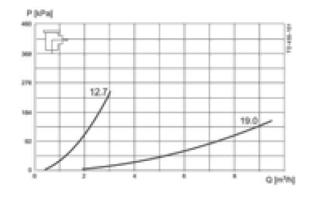
				-p			
SIZE	A	В	C	D	F	G	Н
32	45	49.5	49.5	50.4	22	21.5	1 59
40	45	49.5	49.5	50.4	22	2 1.5	1 59
50	45	61	61	63.9	30	21.5	183.8
65	45	81	81	77.5	30	21.5	215.3
80	45	86	86	90.9	30	21.5	202.3
	32 40 50 65	SIZE A 32 45 40 45 50 45 65 45	SIZE A B 32 45 49.5 40 45 49.5 50 45 61 65 45 81	SIZE A B C 32 45 49.5 49.5 40 45 49.5 49.5 50 45 61 61 65 45 81 81	SIZE A B C D 32 45 49.5 49.5 50.4 40 45 49.5 49.5 50.4 50 45 61 61 63.9 65 45 81 81 77.5	SIZE A B C D F 32 45 49.5 49.5 50.4 22 40 45 49.5 49.5 50.4 22 50 45 61 61 63.9 30 65 45 81 81 77.5 30	32 45 49.5 49.5 50.4 22 21.5 40 45 49.5 49.5 50.4 22 21.5 50 45 61 61 63.9 30 21.5 65 45 81 81 77.5 30 21.5

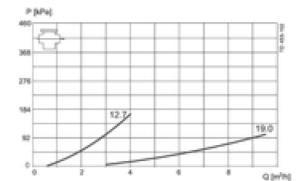


Pressure/Flow

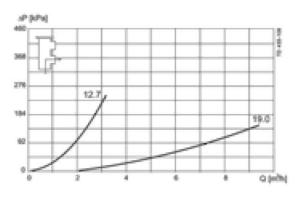
shut-off valve

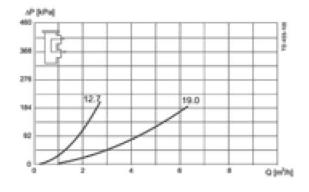


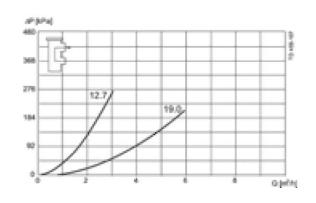


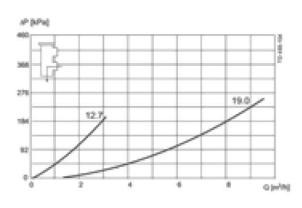


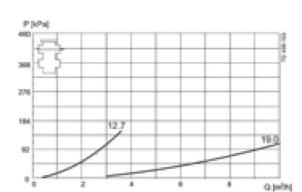
change-over valve













KCV Hygienic Check Valves

KCV is designed to guarantee flow not go back in piping system. Self-active check valve MUST be installed in vertical direction, only allows flow down to upper side. There is no spring involved; it relies on gravity to seal the valve. The valve body is forged, it's hygienic and easy to clean, no dead area. Tri-clamp assembly, easy to be installed and inspection.



Selection table

Connection Standard

DIN	D
ISO	I I
3A	A

Connection Type

welding ends	1
clamp/clamp	2

Connection Size

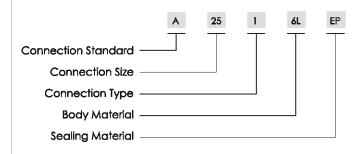
1.0"	25
1.5"	40
2.0"	50
2.5"	65
3.0"	80

316L	6L
304L	4L

Sealing Material

EPDM	Е
Silicone	S
Viton	٧

Option samples:



Remark: 3A,1.0", welding ends, check valve with manually operated, 316L, EPDM Sealing Material.

Remark: 1, Request about GMP & DMP valve, Please contact with Kinglai: 2, if the valve with feedback device used in dangerous area, please inform the anti-explosion lever of electronic components:

KCK no-return valve

KingLai Hygienic Check Valves

Working Pressure 4.5 bar 150℃ Working Temp.

Seal Material EPDM, Viton, Silicone

Body Material 316L

0.5"~ 2.0", 1.0"~ 6.0" **Port Size**

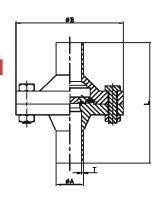
Connection Welding ends, Clamp/Clamp

SurfaceFinish External surface finish Ra≤3.2µm, Internal surface finish Ra≤0.8µm

Connection Standard DIN, ISO, 3A, BS

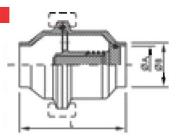


No.	SIZE	A	В	L	T
1402009-000015	25	28.0	100.0	100.0	1.5
1402009-000020	32	34.0	100.0	100.0	1.5
1402009-000025	40	40.0	100.0	112.0	1.5
1402009-000040	50	52.0	110.0	115.0	1.5
1402009-000050	65	70.0	110.0	115.0	2.0
	1402009-000015 1402009-000020 1402009-000025 1402009-000040	1402009-000015 25 1402009-000020 32 1402009-000025 40 1402009-000040 50	1402009-000015 25 28.0 1402009-000020 32 34.0 1402009-000025 40 40.0 1402009-000040 50 52.0	1402009-000015 25 28.0 100.0 1402009-000020 32 34.0 100.0 1402009-000025 40 40.0 100.0 1402009-000040 50 52.0 110.0	1402009-000015 25 28.0 100.0 100.0 1402009-000020 32 34.0 100.0 100.0 1402009-000025 40 40.0 100.0 112.0 1402009-000040 50 52.0 110.0 115.0



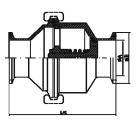
KCK-W: Wending ends

No.	SIZE	A	В	<u>l</u>
1402010-000025	25	25.0	28.0	60.0
1402010-000032	32	31.0	34.0	60.0
1402010-000040	40	37.0	40.0	75.0
1402010-000050	50	49.0	52.0	75.0
1402010-000065	65	66.0	70.0	75.0
1402010-000080	80	81.0	85.0	75.0
1402010-000100	100	100.0	104.0	119.0



KCK-C: Clamp/Clamp

No.	SIZE	A	В	<u>I</u>	
1402110-000025	25	25.0	50.5	103.0	
1402110-000032	32	31.0	50.5	103.0	
1402110-000040	40	37.0	50.5	118.0	
1402110-000050	50	49.0	64.0	118.0	
1402110-000065	65	66.0	91.0	131.0	
1402110-000080	80	81.0	106.0	131.0	
1402110-000100	100	100.0	119.0	175.0	





Four-Way Valves/ Air Pressure Valve

KingLai Hygienic Valves

Working Pressure 0-10 bar

Working Temp. -10℃~150℃

PTFE Seal Material **Body Material** 316L

Connection Welding ends, Clamp/Clamp

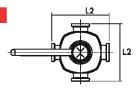
SurfaceFinish External surface finish Ra≤1.6µm, Internal surface finish Ra≤0.8µm

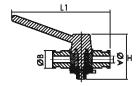
Applivation User friendly for chromato graphic system, CIP/SIP



Four-Way Valves

No.	A	В		L1	L2
1507199-000050	9.4	25	63	137.4	80
1507199-000775	7.75	25	63	137.4	80
1507199-000100	22.1	50.4	107	224.0	150
1007 177 000 100	OEM/ODM	25	63	137.4	80







Friction Loss Table

The following table was developed to indicate loss of head due to friction-in meter loss per fitting or in meter loss per meter of tubing - through stainless steel tubes and sanitary fittings.

Friction Loss in Sanitary OD Tubes and Fittings

									Tube	e Size						,		
Capacity in m³/hr.			1-1/2" 2" ID=1.370" ID=1.870"			2-1/2" ID=2.370"			3" ID=2.870"			4" ID=3.834"						
	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee
0.5	0.01	0.003	0.030															
1.0	0.025	0.006	0.061															
1.1	0.035	0.008	0.076															
2.3	0.12	0.018	0.021	0.02	0.003	0.045	0.005	0.005	0.030									
3.4	0.25	0.030	0.242	0.04	0.006	0.076	0.013	0.006	0.045									
4.5	0.43	0.067	0.455	0.06	0.009	0.091	0.02	0.008	0.061	0.005	0.006	0.030	0.003	0.006	0.018			
5.7	0.66	0.021	0.697	0.08	0.012	0.121	0.025	0.009	0.076	0.006	0.009	0.045	0.004	0.009	0.024			
6.8	0.93	0.212	1.000	0.105	0.018	0.167	0.035	0.015	0.091	0.008	0.015	0.061	0.005	0.012	0.030			
8.0	1.22	0.379	1.576	0.135	0.027	0.242	0.04	0.018	0.121	0.011	0.018	0.076	0.006	0.015	0.039			
9.1				0.17	0.033	0.303	0.05	0.024	0.152	0.015	0.021	0.091	0.007	0.018	0.045			
10.2				0.21	0.048	0.394	0.063	0.030	0.182	0.02	0.027	0.106	0.008	0.020	0.055			
11.4				0.25	0.061	0.485	0.073	0.036	0.212	0.022	0.030	0.121	0.01	0.021	0.061			
13.6				0.34	0.106	0.667	0.1	0.055	0.273	0.03	0.036	0.136	0.015	0.024	0.076			
18.2				0.57	0.230	1.121	0.16	0.091	0.455	0.05	0.045	0.167	0.02	0.030	0.121			
22.7				0.85	0.409	1.758	0.23	0.133	0.697	0.075	0.055	0.182	0.03	0.033	0.152	0.008	0.012	0.030
27.3				1.18	0.621	2.758	0.32	0.194	1.000	0.105	0.064	0.303	0.04	0.039	0.182	0.01	0.015	0.045
31.8							0.42	0.258	1.364	0.14	0.070	0.379	0.05	0.048	0.242	0.013	0.018	0.061
36.4							0.54	0.342	1.758	0.17	0.085	0.485	0.07	0.061	0.333	0.015	0.021	0.076
40.9							0.67	0.439	2.242	0.205	0.094	0.606	0.08	0.064	0.394	0.02	0.024	0.091
45.5							0.81	0.552	2.727	0.245	0.106	0.758	0.1	0.079	0.485	0.025	0.027	0.121



Friction Loss in Sanitary OD Tubes and Fittings

									Tube	e Size								
Capacity in m³/hr.		1-1/2" ID=1.370"			2" ID=1.870"			2-1/2" ID=2.370"			3" ID=2.870"			4" ID=3.834"				
	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee
50.0							0.95	0.673	3.333	0.29	0.124	0.909	0.12	0.091	0.576	0.028	0.030	0.152
54.5							1.10	0.797	4.091	0.34	0.145	1.121	0.14	0.100	0.667	0.035	0.033	0.167
59.1										0.39	0.161	1.364	0.165	0.118	0.758	0.04	0.035	0.182
63.6										0.45	0.185	1.606	0.19	0.127	0.848	0.045	0.036	0.197
68.2										0.515	0.212	1.879	0.22	0.152	0.939	0.05	0.039	0.212
79.5										0.68	0.318	2.576	0.28	0.203	1.242	0.07	0.045	0.273
90.9										0.86	0.470	3.333	0.36	0.267	1.576	0.85	0.055	0.364
102.3										1.05	0.682	4.091	0.44	0.333	2.000	0.105	0.061	0.455
113.6													0.54	0.424	2.424	0.13	0.070	0.530
125.0													0.64	0.515	2.879	0.15	0.082	0.636
136.4													0.75	0.621	3.091	0.175	0.091	0.758
147.7													0.87	0.730	3.939	0.2	0.103	0.848
159.1													1.0	0.848	4.545	0.23	0.121	1.030
170.5																0.26	0.130	1.152
181.8																0.3	0.152	1.333
193.2																0.33	0.170	1.515
204.5																0.37	0.188	1.727
215.9																0.41	0.212	1.909
227.3																0.45	0.242	2.121
250.0																0.53	0.321	2.606

Superior Tanks for Ultra-Pure Applications

KL Sterile storage tank design is in line with food and medical industry the most strict hygiene requirements, and fully compatible with in situ cleaning (CIP) process, the storage tank with hemispherical upper parts and hemispherical or conical bottom, and after a careful design and testing, can be in 4 bar of the maximum pressure and absolute vacuum conditions to complete the task. This means that even under the condition of hard work, they can work safely. KL Sterile storage tank has a variety of different diameter and height to choose from, so that adapted to the available space, and can be customized to meet the special needs of customers. KL Sterile storage tank is equipped with different mixing equipment, very suitable for special food and beverage applications. And the level of design to choose from, it is very suitable for products containing particles, such as the production of prepared foods. All surfaces in contact with the product through the mirror polishing, and outside surface with wool surface finish.

Custom Vessels

ABC-KL will manufacture customized vessels for your food, beverage, pharmaceutical, chemical and electronics applications under the following considerations:

Vessel Volume: Maximum 90,000 liters with a diameter of 14 feet Pressure Rating: Design and built to ASME code and stamped

Corrosion Resistance: Material of construction is stainless steel and other

nickel based alloys

Quality: Highest quality vessels available in the market today

Technology And Testing Ensure Performance

Beginning with the inspection of raw materials and throughout the manufacturing process, rigorous testing and documentation procedures assure compliance with the most stringent industry standards. Prior to shipment, your tanks undergo documented tests that may include dye penetrant examination, radiographic examination, pressure testing, profilometer readings of surface finish, saline & ferrite testing and fiber optic borescopic examination of contact surfaces.



The Custom Advantage

Because we know that every application is unique, we design each tank individually, so you never have to adapt your processing operations to our products. With customized designs from ABC-KL, you determine the precise specifications to meet your requirements, including:

- Capacity and pressure rating
- Mechanical and electropolished surface finish to less than 10 microinches Ra
- Stationary or portable design
- Cone, sloped or dished bottoms
- Fixed or removable tops
- Port types, sizes and locations
- Dimple, conventional and half pipe heating and cooling jackets
- Chloride-free insulation with stainless steel sheathing
- Accessories such as lights, sightglasses, handholes, sensors, load cells, sampling valves & spargers, Ingold fittings for instrumentation and top and bottom mount mixers



All ABC-KL custom tanks offer:

- Materials including stainless steel and other nickel based alloys
- ASME Code Stamping with National Board Registration
- CE/PED Certification
- G/B150, TSGR0004-2009
- JB/T4730-2005 NB/T47015-2011
- Certified profilometer readings on mechanical and electropolished surface finish
- Borescopic inspection





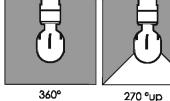


KRSH Rotary Spray Head

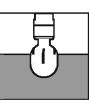
KRSH is a rotary spray head that uses cleaning media to provide coverage and impact. The device represents an effective alternative to traditional static spray balls because it uses low volumes of cleaning fluid at low pressure. The double ball bearing in the RSH's rotating head makes the device suitable for all industrial cleaning applications, including tanks, reactors, vessels and other containers ranging from 0.05 m³ to 50 m³, depending on dimensions and cleaning task. The flow of the cleaning media causes the head of the KRSH to rotate, and the fan-shaped jets lay out a swirling pattern throughout the tank or reactor. This generates the impact needed for the efficient removal of residual product; the cascading flow covers all internal surfaces of the vessel.



Spray Pattern







180 °down

Technical Expertise

Raw material

AISI 316L (UNS \$31603)

Min. tank opening

RSH-25 25mm diameter(DN25)

RSH-45 45mm diameter(DN45)

RSH-65 65mm diameter(DN65)

Max. working temp.

95°C (Max. ambient temp. 140°C)

Impact cleaning radius

RSH25 max, r=0.6M

R\$H45 max. r=1.4M

RSH65 max. r=2M

Working pressure

1-3 bar (Recommended pressure: 2bar)

Spray pattern

360/270 up/180 down

Connection

Thread, Weld-on, Clip-on



KRSH Rotary Spray Head-Φ25

Tank Cleaning Equipment

Lubricant Self-lubricating with the cleaning fluid

MatericalAISI 316L (UNSS31603)Min.tankopening25mm diameter(DN25)

Working pressure1~3barRecommended pressure2barWorking temp.95℃Amblent temp.140℃Wetting radius2.5m

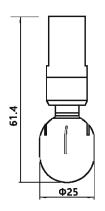
Cleaning radius Max. 0.6m

Connections Thread: 3/8"Rp(BSP)

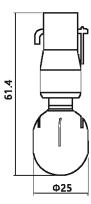
Clip-on: 3/4"(BPE/3A)
Weld-on: 3/4"(BPE/3A)

Standard Surface Finish Ra0.8µm Internal, Ra0.8µm Enternal

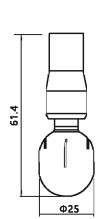
Improved Surface Finish Ra0.8µm Internal, Ra0.8µm Enternal+Mirror polish



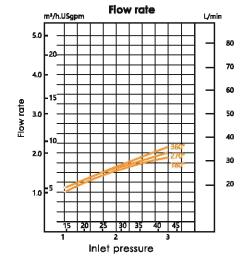
Thread

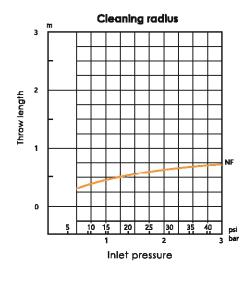


Clip-on



Weld-on





KRSH Rotary Spray Head-Ф45

Tank Cleaning Equipment

Lubricant Self-lubricating with the cleaning fluid

Materical AISI 316L (UNSS31603)

Port Size Min.Ф45mm
Working pressure 1~3bar
Recommended pressure 2bar
Working temp. 95℃
Amblent temp. 140℃

Ambient temp. 140
Wetting radius 3m

Cleaning radius Max. 1.4m

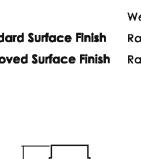
Connections Thread: 3/4"Rp(BSP)

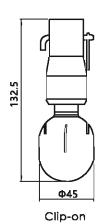
Clip-on: 1.0"(BPE/ISO)

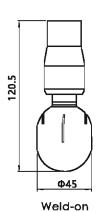
Weld-on: 1.0"

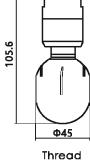
Standard Surface Finish Ra0.8µm Internal, Ra0.8µm Enternal

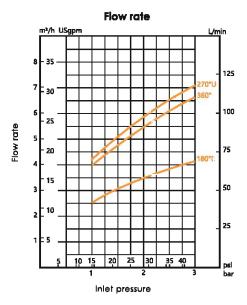
Improved Surface Finish Ra0.8µm Internal, Ra0.8µm Enternal+Mirror polish

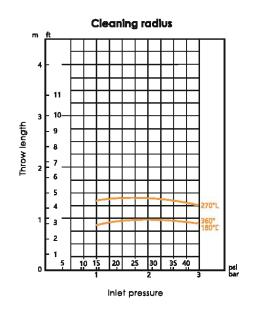














KRSH Rotary Spray Head-Ф65

Tank Cleaning Equipment

Lubricant Self-lubricating with the cleaning fluid

Materical AISI 316L (UNSS31603)

Port SizeMin.Φ25mmWorking pressure1~3barRecommended pressure2barWorking temp.95℃Amblent temp.140℃Wetting radius3m

Cleaning radius Max. 2m

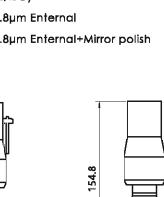
Connections Clip-on: 1.5"/2.0"(BPE/ISO)

Weld-on: 1.5"/2.0"(BPE/ISO)

Standard Surface Finish Ra0.8µm Internal, Ra0.8µm Enternal

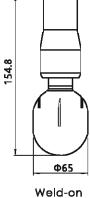
Improved Surface Finish Ra0.8µm Internal, Ra0.8µm Enternal+Mirror polish

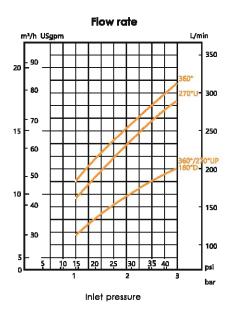
154.8

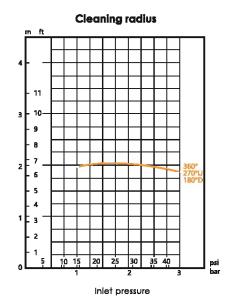


Clip-on

Φ65





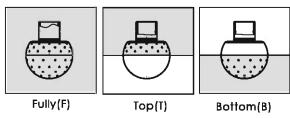


KSB Spray Ball

Tank Cleaning Equipment

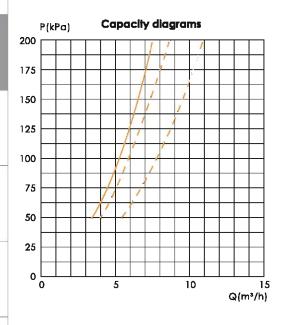
KSB is a fixed spray ball used for cleaning storage tanks. Fixed spray balls are used for less demanding cleaning duties. Can be customized to meet customers' specific needs.

Spray Pattern

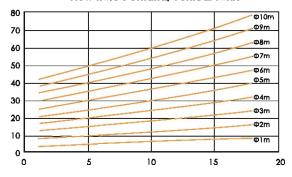




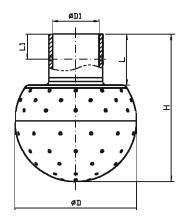




Flow Rate Demand/Vertical Tank



360° Fully



360° (Fully)

1.0"

1.5"

2.0"

25.3 79.0

38.3 79.0

65

65

27.4

51.3 114.0 38.5 17.25

27.4 13.4

13.4

· (. · ,								
SIZE	D	D1	H	L	L1	Q(m³/h) Ibar	Q(m³/h) 2.5bar	Flow Diameter (Фm)
DN25	65	28.2	52.6	21.0	9.0	11.0	17.3	2.0-3.0
DN25-1	65	29.2	52.6	21.0	9.0	11.0	17.3	2.0-3.0
DN32	65	34.2	79.0	27.4	13.4	16.5	19.5	2.5-3.5
DN32-1	65	35.2	79.0	27.4	13.4	16.5	19.5	2.5-3.5
DN40	65	40.2	79.0	27.4	13.4	11.8	19.2	2.5-3.5
DN40-1	65	41.2	79.0	27.4	13.4	11.8	19.2	2.5-3.5
DN50	91	52.2	114.0	38.5	38.5	28.6	41.7	4.0-5.0
DN50	91	53.2	114.0	38.5	38.5	28.6	41.7	4.0-5.0
SIZE	D	D1	H	L	L1	Q(m²/h) Ibar	Q(m³/h) 2.5bar	Flow Dlameter (Фm)
ISO19	40	19.3	52.6	21.0	9.0	4.2		1.0-1.5
I\$O25	65	25.3	79.0	27.4	13.4	11.0	17.3	2.5-3.0
ISO38	65	38.3	79.0	27.4	13.4	11.8	19.2	2.5-3.5
ISO51	91	51.3	114.0	38.5	1 7.2 5	28.6	41.7	4.0-5.0
SIZE	D	D1	H	L	L1	Q(m³/h) 1 bar	Q(m³/h) 2.5bar	How Diameter (Фт)
3/4"	40	19.3	52.6	21.0	9.0	4.2		1.0-1.5

11.0

11.8

28.6

17.3

19.2

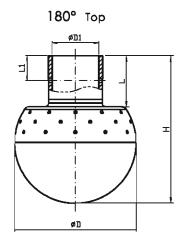
41.7

2.5-3.0

2.5-3.5

4.0-5.0

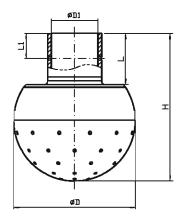




180° (Top)

SIZE	D	D1	Н	L	L1	Q(m³/h) 1bar	Q(m²/h) 2.5bar	Flow Diameter (Φrn)
DN25	65	28.2	52.6	21.0	9.0	8.7	12.8	2.5-3.0
DN25-1	65	29.2	52.6	21.0	9.0	8.7	12.8	2.5-3.0
DN32	65	34.2	79.0	27.4	13.4	9.8	15.6	2.5-3.5
DN32-1	65	35.2	79.0	27.4	13.4	9.8	15.6	2.5-3.5
DN40	65	40.2	79.0	27.4	13.4	9.6	14.8	2.5-3.5
DN40-1	65	41.2	79.0	27.4	13.4	9.6	14.8	2.5-3.5
DN50	9 1	52.2	114.0	38.5	38.5	19.5	30.6	4.0-5.0
DN50-1	9 1	53.2	114.0	38.5	38.5	19.5	30.6	4.0-5.0
SIZE	D	D1	н	T ₁	L1	Q(m²/h) Ibar	Q(m³/h) 2.5bar	Flow Diameter (Фm)
9111						1 bar	2.5bar	How plaintered (+11)
ISO19	40	19.3	52.6	21.0	9.0	2.1	2.5bar	1.0-1.5
- HOVE							2.5bar 12.8	
ISO19	40	19.3	52.6	21.0	9.0	2.1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.0-1.5
ISO19 ISO25	40 65	19.3 25.3	52.6 79.0	21.0 27.4	9.0 13.4	2.1 8.7	12.8	1.0-1.5 2.5-3.0
ISO19 ISO25 ISO38	40 65 65	19.3 25.3 38.3	52.6 79.0 79.0	21.0 27.4 27.4	9.0 13.4 13.4	2.1 8.7 9.6	12.8 14.8	1.0-1.5 2.5-3.0 2.5-3.5
ISO19 ISO25 ISO38	40 65 65	19.3 25.3 38.3	52.6 79.0 79.0	21.0 27.4 27.4	9.0 13.4 13.4	2.1 8.7 9.6	12.8 14.8	1.0-1.5 2.5-3.0 2.5-3.5
ISO19 ISO25 ISO38 ISO51	40 65 65 91	19.3 25.3 38.3 51.3	52.6 79.0 79.0 114.0	21.0 27.4 27.4 38.5	9.0 13.4 13.4 17.25	2.1 8.7 9.6 19.5	12.8 14.8 30.6	1.0-1.5 2.5-3.0 2.5-3.5 4.0-5.0
ISO19 ISO25 ISO38 ISO51	40 65 65 91	19.3 25.3 38.3 51.3	52.6 79.0 79.0 114.0	21.0 27.4 27.4 38.5	9.0 13.4 13.4 17.25	2.1 8.7 9.6 19.5	12.8 14.8 30.6	1.0-1.5 2.5-3.0 2.5-3.5 4.0-5.0
ISO19 ISO25 ISO38 ISO51 SIZE 3/4"	40 65 65 91 D	19.3 25.3 38.3 51.3 D1 19.3	52.6 79.0 79.0 114.0 H 52.6	21.0 27.4 27.4 38.5 L 21.0	9.0 13.4 13.4 17.25	2.1 8.7 9.6 19.5	12.8 14.8 30.6	1.0-1.5 2.5-3.0 2.5-3.5 4.0-5.0

180° Bottom



180° (Bottom)

SIZE	D	DI	H		L1	ibar	2.5bar	How Diameter (Фm)
DN25	65	28.2	52.6	21.0	9.0	7.0	10.9	2.0-3.0
DN25-1	65	29.2	52.6	21.0	9.0	7.0	10.9	2.0-3.0
DN32	65	34.2	79.0	27.4	13.4	7.8	12.5	2.5-3.5
DN32-1	65	35.2	79.0	27.4	13.4	7.8	12.5	2.5-3.5
DN40	65	40.2	79.0	27.4	13.4	10.9	16.6	2.5-3.5
DN40-1	65	41.2	79.0	27.4	13.4	10.9	16.6	2.5-3.5
DN50	9 1	52.2	114.0	38.5	38.5	17.0	28.0	4.0-4.5
DN50-1	9 1	53.2	114.0	38.5	38.5	17.0	28.0	4.0-4.5
SIZE	D	D1	Н	L	L1	Q(m²/h) Ibar	Q(m²/h) 2.5bar	How Diameter (Фm)
ISO19	40	19.3	52.6	21.0	9.0	2.5		1.0-1.5
	65	25.3	79.0	27.4	13.4	7.0	10.9	2.0-3.0
ISO25	03	20.0						
ISO25 ISO38	65	38.3	79.0	27.4	13.4	10.9	16.6	2.5-3.5
			79.0 114.0	27.4 38.5	13.4 17.25	10.9 17.0	16.6 28.0	2.5-3.5 4.0-5.0
ISO38	65	38.3						
ISO38	65	38.3						
ISO38 ISO51	65 91	38.3 51.3	114.0	38.5	1 7.25	17.0	28.0	4.0-5.0
ISO38 ISO51	65 91	38.3 51.3	114.0 H	38.5 L	1 7.25	17.0 Q(m²/h) 1bar	28.0	4.0-5.0 Flow Diameter (Φm)
ISO38 ISO51 SIZE 3/4"	65 91 D	38.3 51.3 D1 19.3	114.0 H 52.6	38.5 L 21.0	17.25 L1 9.0	17.0 Q(m²/h) 1bar 2.5	28.0 Q(m³/h) 2.5bar	4.0-5.0 Flow Diameter (Φm) 1.0-1.5
ISO38 ISO51 SIZE 3/4" 1.0"	65 91 D 40 65	38.3 51.3 D1 19.3 25.3	114.0 H 52.6 79.0	38.5 L 21.0 27.4	17.25 L1 9.0 13.4	17.0 Q(m³/h) 1bar 2.5 7.0	28.0 Q(m ⁵ /h) 2.5bar	4.0-5.0 How Diameter (Φm) 1.0-1.5 2.0-3.0



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