KINGLAI

ISO

TUBES & FITTINGS
SANITARY VALVES
TANKS

ISO 9001:2008 CERTIFIED

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.

Kunshan Kinglai Hygienic Materials Co., Ltd. (KL) founded in 2000, and gone public on 6th September 2011. KL expertise in hygienic materials research and manufacture, including vacuum vessel, pump, valve, flange, pressure vessel, tubing and fittings, etc. 68 series product covers 100,000 types comply with UHP & UHV. KL sanitary division serves customers in various industries, from daily articles of dairy, food, and beverage, to laboratory studies of chemical, pharmaceutical, and bio-tech. KL products are manufactured to meet different regional standards and custom-built products are available upon request. "CUSTOMER SUCCESS IS OUR SUCCESS" is the service tenet that we adhere to all the time.

KL is a professional hygienic material manufacturer with high-tech in several fields, like new material, precision machining, surface treatment, clean room, ultra vacuum etc. KL is one of the few manufacturers which carry a complete technical system, and also is a leading company worldwide.

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.

We feature quick delivery, best quality, competitive pricing and excellent service for KL product.

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 thecompany can meet customer multiple design as well as to the health of the strict requirements.

BIO-PHARM EQUIPMENTS

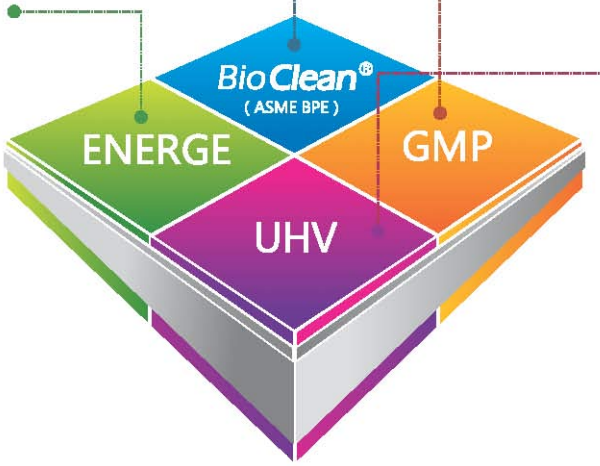
PHARMACEUTICAL,
CHEMICAL,
PERSONAL CARE
LIFE SCIENCE

FOODS & BEVERAGE SAFTY PRODUCTION

DRINKS, DAIRY, BREW, WINES,

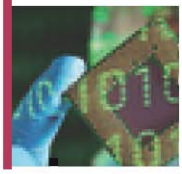
ENERGY SAVING & ENVIRONMENTS

SOLAR CELL, LED



ELECTRONIC & SEMICON

SEMICONDUCTION
OPTICAL COATING,
ITO, UHP DELIVERY



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 9001certification 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

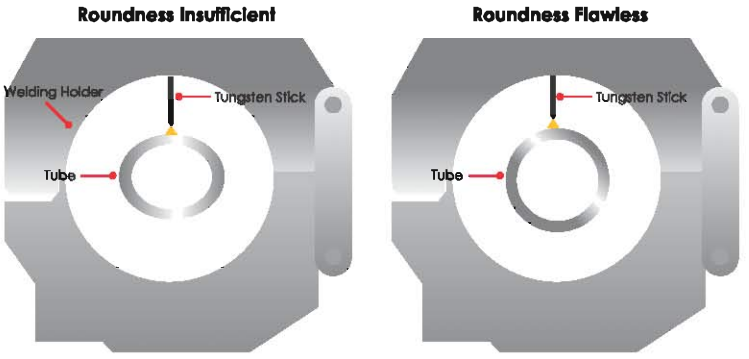
KL raw material applies to ASTM 304 and 316L with good corrosion resistance and good performance in welding. KL is now using automatic welding, like Orbital welding, TIG welding, MIG welding, to replace hand welding, which can improve working environment & efficiency, meanwhile low down labor cost.

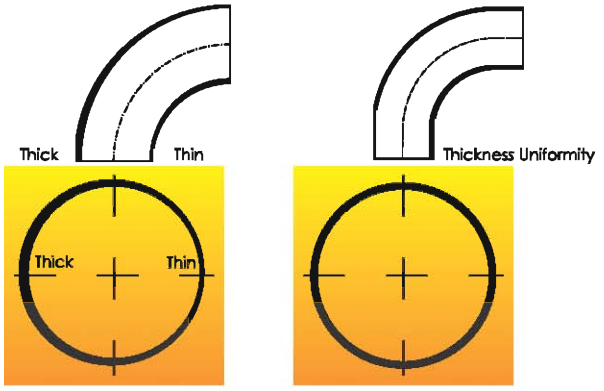
KL tubing automatic welding procedure

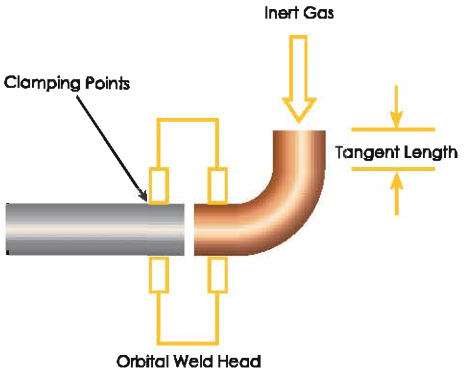
1.Long tangent, easy for fixture

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.It'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.

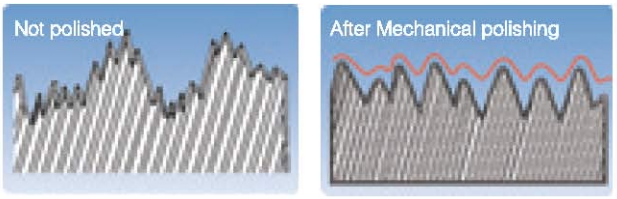
Weakness of hand welding

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

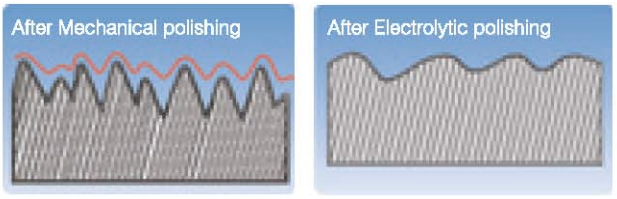
POLISHING PROCESS

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			DIN(DIN11850) SERIES2			DIN(DIN11850) SERIES1			DIN			ASME BPE			BS			GB		
NOM. Size	OD	T	NOM. Size	OD	T	NOM. Size	OD	T	NOM. SIZE	OD	T	NOM. SIZE	OD	T	NOM. SIZE	OD	T	NOM. SIZE	OD	T	NOM. SIZE	OD	T
															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℉/21℃		@250℉/121℃		@70℉/21℃		@250℉/121℃		@70℉/21℃		@250℉/121℃	
	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	17	600	41	300	21	1500	103	1200	83
2.0"	450	31	250	17	550	38	275	19	1000	69	800	55
2 1/2"	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℃	250℃	300℃	350℃	400℃
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

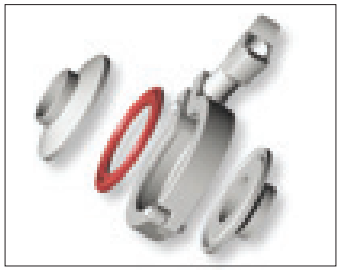
Sanitary stainless steel pipe rated pressure

OD	WALL	WELD	Max. allowable pressure in bar							
mm	mm	Factor(v)	20℃	100℃	150℃	200℃	250℃	300℃	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℃	200℃	250℃	300℃	350℃	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



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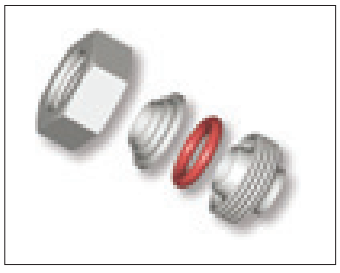

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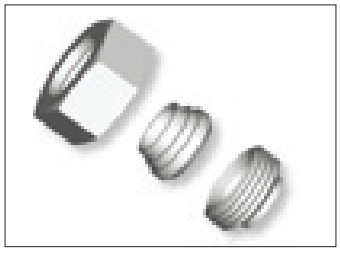
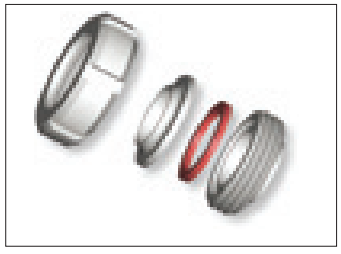


3A



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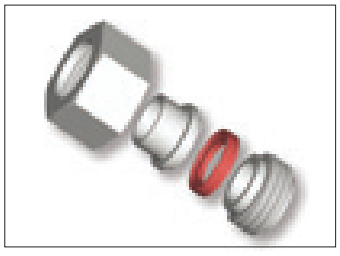


IDF

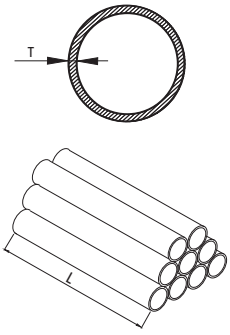
Material features of union ring seals

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	Poor-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

Hygienic Tubes

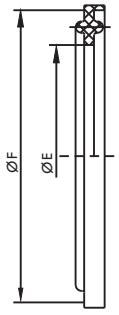
No.	Nominal Size	L	T
A128000**000025	25.0	6000.0	1.2
A128000**000038	38.0	6000.0	1.2
A128000**000051	51.0	6000.0	1.2
A128000**000063	63.5	6000.0	1.6
A128000**000076	76.1	6000.0	1.6
A128000**000101	101.6	6000.0	2
A128000**000104	104.0	6000.0	2



Remark: XX Polishing grade

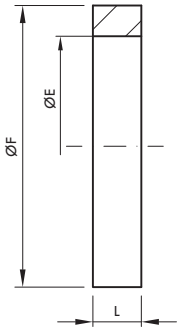
Seal Ring

No.	Nom.Size	F	E
1215004-000025	25	50.5	22.8
1215004-000038	38	50.5	35.8
1215004-000051	51	64.0	48.8
1215004-000063	63	77.5	60.5
1215004-000076	76	91.0	73.1
1215004-000101	101	119.0	97.8



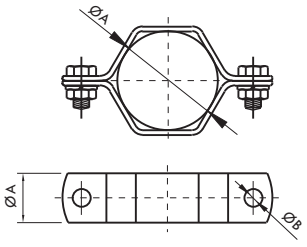
Seal Ring

No.	Nom.Size	E	F	L
1215002-000025	25	25.0	32.0	5.5
1215002-000032	32	32.0	40.0	5.5
1215002-000038	38	38.0	48.0	5.5
1215002-000051	51	51.0	61.0	5.5
1215002-000063	63	63.5	73.5	5.5
1215002-000076	76	76.0	86.0	5.5
1215002-000101	101	101.6	114.0	5.5



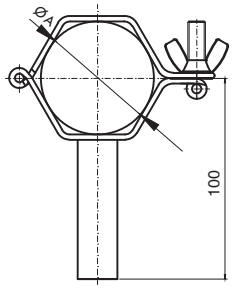
Type A, 2 piece saddle HEX - No Attachment

No.	Nom.Size	A	B
1224005-000025	25	25.0	7.0
1224005-000038	38	38.0	7.0
1224005-000051	51	51.0	9.0
1224005-000063	63	63.0	9.0
1224005-000076	76	76.1	9.0
1224005-000101	101	101.6	9.0
1224005-000114	114	114.3	9.0
1224005-000129	129	129.0	9.0
1224005-000154	154	154.0	9.0



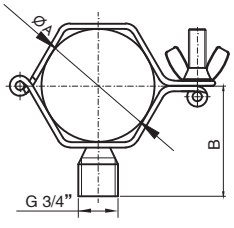
Type B, hinged HEX with long shaft

No.	Nom.Size	A	H
1224002-000025	25	25.0	100
1224002-000038	38	38.0	100
1224002-000051	51	51.0	100
1224002-000063	63	63.0	100
1224002-000076	76	76.0	100
1224002-000101	101	101.6	100



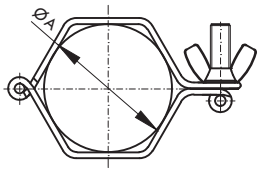
Type C, hinged HEX with welding attachment

No.	Nom.Size	A
1224003-000025	25	25.0
1224003-000038	38	38.0
1224003-000051	51	51.0
1224003-000063	63	63.0
1224003-000076	76	76.0
1224003-000101	101	101.6



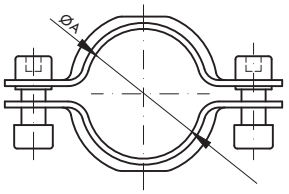
Type D, hinged HEX-No Attachment

No.	Nom.Size	A
1224004-000025	25	25.0
1224004-000038	38	38.0
1224004-000051	51	51.0
1224004-000063	63	63.5
1224004-000076	76	76.1
1224004-000101	101	101.6



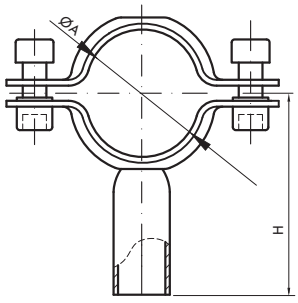
Tube Holder Without Shaft

No.	Nom.Size	A
1224009-000025	25	25.0
1224009-000038	38	38.0
1224009-000051	51	51.0
1224009-000063	63	63.5
1224009-000076	76	76.1
1224009-000101	101	101.6



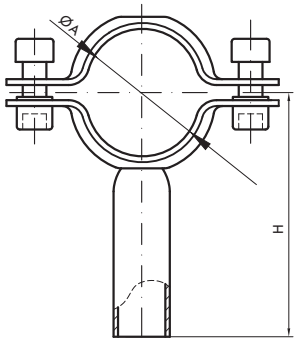
Tube Holder With Short Shaft

No.	Nom.Size	A	H
1224010-000025	25	25.0	90
1224010-000038	38	38.0	90
1224010-000051	51	51.0	90
1224010-000063	63	63.5	90
1224010-000076	76	76.1	90
1224010-000101	101	101.6	90



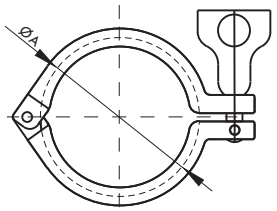
Tube Holder With Long Shaft

No.	Nom.Size	A	H
1224011-000025	25	25.0	150
1224011-000038	38	38.0	150
1224011-000051	51	51.0	150
1224011-000063	63	63.5	150
1224011-000076	76	76.1	150
1224011-000101	101	101.6	150



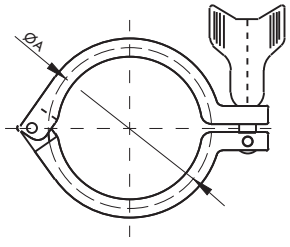
13MHH Clamp

No.	Nom.Size	A
1513016-000025	1/2"	28.6
1513016-000025	3/4"	28.6
1513016-000051	1.0"	53.9
1513016-000051	1.5"	53.9
1513016-000064	2.0"	67.4
1513016-000078	2.5"	80.9
1513016-000091	3.0"	94.4
1513016-000119	4.0"	122.4
1513016-000167	6.0"	170.4
1513016-000218	8.0"	221.2
1513016-000268	10.0"	272.0



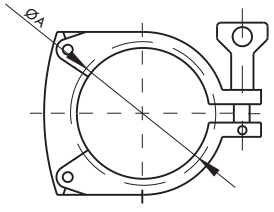
13MHH Clamp

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
1513001-000091	3.0"	94.4
1513001-000119	4.0"	122.4
1513001-000167	6.0"	170.4
1513001-000218	8.0"	221.2
1513001-000268	10.0"	272.0



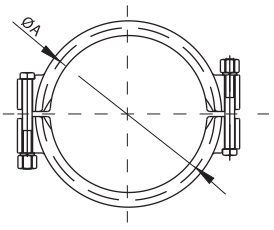
13MHH3 Clamp

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"	122.4



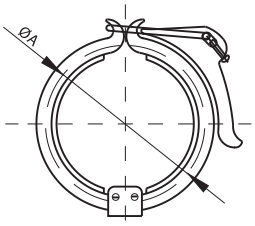
13MHP Clamp

No.	Nom.Size	A
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



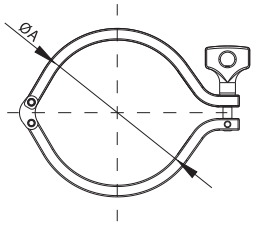
13MHL Clamp

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"	122.4



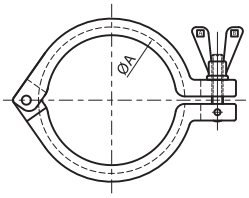
TC Clamp

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



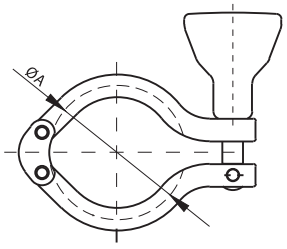
13MHH Clamp

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"	171.24



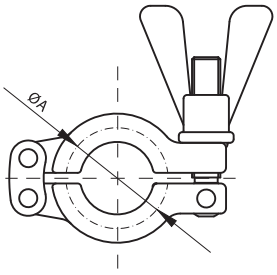
TC Clamp

No.	Nom.Size	A
1213007-000100	1.0"	53.9
1213007-000150	1.5"	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



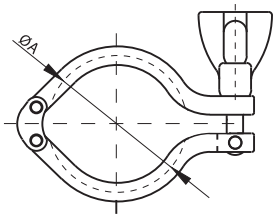
TC Clamp

No.	Nom.Size	A
1513028-000025	1/2"	28.0
1513028-000025	3/4"	28.0
1513028-000051	1.0"	53.9
1513028-000051	1.5"	53.9
1513028-000064	2.0"	67.4
1513028-000078	2.5"	80.9
1513028-000091	3.0"	94.4
1513028-000119	4.0"	122.0



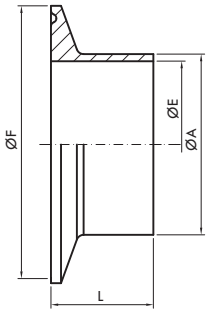
TC Clamp

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



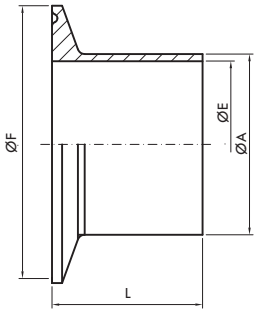
Clamp Ferrule

No.	Nom.Size	A	E	F	L
1214005-000025	25	25.0	22.6	50.5	12.7
1214005-000038	38	38.0	35.6	50.5	12.7
1214005-000051	51	51.0	48.6	64.0	12.7
1514001-000250	63	63.5	60.2	77.5	12.7
1514001-000300	76	76.2	72.9	90.9	12.7
1514001-000400	101	101.6	97.4	118.9	15.8



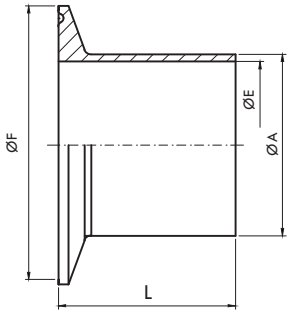
Clamp Ferrule

No.	Nom.Size	A	E	F	L
1214001-000025	25	25.0	22.6	50.5	21.5
1214001-000038	38	38.0	35.6	50.5	21.5
1214001-000051	51	51.0	48.6	64.0	21.5
1314001-000063	63	63.5	60.3	77.5	21.5
1314001-000076	76	76.1	72.9	91.0	21.5
1314001-000101	101	101.6	97.6	119.0	21.5



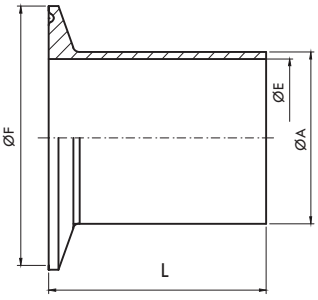
Clamp Ferrule

No.	Nom.Size	A	E	F	L
1214003-000025	25	25.0	22.6	50.5	28.6
1214003-000038	38	38.0	35.6	50.5	28.6
1214003-000051	51	51.0	48.6	64.0	28.6
1514003-000250	63	63.5	60.2	77.5	28.6
1514003-000300	76	76.2	72.9	90.9	28.6
1514003-000400	101	101.6	97.4	118.9	28.6



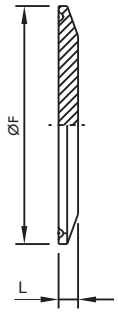
Clamp Ferrule

No.	Nom.Size	A	E	F	L
1214012-000025	25	25.0	22.6	50.5	44.5
1214012-000038	38	38.0	35.6	50.5	44.5
1214012-000051	51	51.0	48.6	64.0	57.2
1514004-000250	63	63.5	60.2	77.5	57.2
1514004-000300	76	76.2	72.9	90.9	57.2
1514004-000400	101	101.6	97.4	118.9	57.2



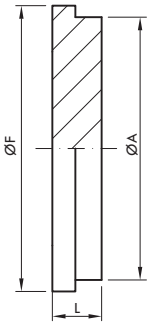
16AMP Blank

No.	Nom.Size	F	L
1516001-000075	1/2"	25.0	4.7
1516001-000075	3/4"	25.0	4.7
1516001-000150	1.0"	50.4	6.4
1516001-000150	1.5"	50.4	6.4
1516001-000200	2.0"	63.9	6.4
1516001-000250	2.5"	77.5	6.4
1516001-000300	3.0"	90.9	6.4
1516001-000400	4.0"	118.9	7.9
1516001-000600	6.0"	166.9	11.1
1516001-000800	8.0"	217.7	11.1
1516001-001000	10.0"	268.5	11.1



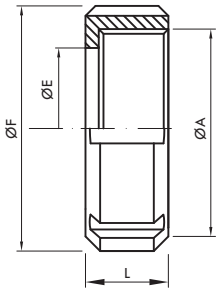
Union Blank

No.	Nom.Size	A	F	L
1216001-000025	25	32.0	35.5	7.5
1216001-000032	32	40.0	43.5	7.5
1216001-000038	38	48.0	55.5	8.0
1216001-000051	51	60.0	65.0	9.0
1216001-000063	63	74.0	80.0	9.0
1216001-000076	76	86.0	93.0	11.0
1216001-000101	101	116.0	127.0	13.0



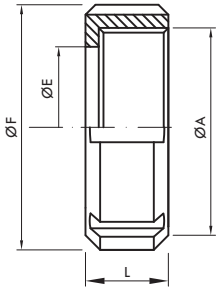
Nut

No.	Nom.Size	A	E	F	L
1208001-000025	25	RD40x1/6	32.0	51.0	19.0
1208001-000038	38	RD60x1/6	48.0	74.0	23.0
1208001-000051	51	RD70x1/6	60.5	84.0	24.0
1208001-000063	63	RD85x1/6	74.0	100.0	28.0
1208001-000076	76	RD98x1/6	87.0	114.0	30.0
1208001-000101	101	RD125x1/6	113.0	138.0	31.0
1208001-002101	101-2	RD132x1/6	117.0	154.0	35.0



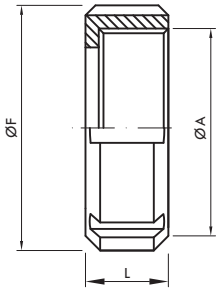
Nut

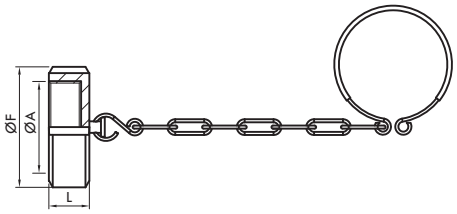
No.	Nom.Size	A	E	F	L
1208002-000025	25	RD40x1/6	32.0	51.0	20.0
1208002-000032	32	RD48x1/6	40.0	60.0	22.0
1208002-000038	38	RD60x1/6	48.0	74.0	25.0
1208002-000051	51	RD70x1/6	60.5	84.0	26.0
1208002-000063	63	RD85x1/6	74.0	100.0	30.0
1208002-000076	76	RD98x1/6	87.0	114.0	32.0
1208002-000101	101	RD132x1/6	117.0	155.0	45.0



Nut

No.	Nom.Size	A	F	L
1208003-000025	25	RD40x1/6	51.0	20.0
1208003-000032	32	RD48x1/6	60.0	22.0
1208003-000038	38	RD60x1/6	74.0	25.0
1208003-000051	51	RD70x1/6	84.0	26.0
1208003-000063	63	RD85x1/6	100.0	30.0
1208003-000076	76	RD98x1/6	114.0	32.0
1208003-000101	101	RD132x1/6	155.0	45.0



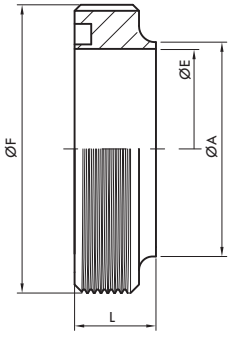


End cap with chain

No.	Nom.Size	A	F	L
1208012-000025	25	RD40x1/6	51.0	18.0
1208012-000038	38	RD60x1/6	74.0	20.0
1208012-000051	51	RD70x1/6	84.0	20.0
1208012-000063	63	RD85x1/6	100.0	23.0
1208012-000076	76	RD98x1/6	114.0	23.0
1208012-000101	101	RD132x1/6	154.0	31.0
1208012-000104	104	RD125x1/4	140.0	31.0

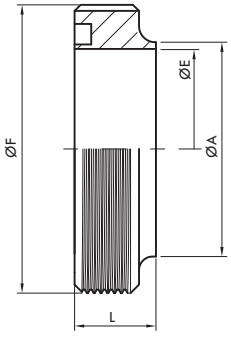
Male part

No.	Nom.Size	A	E	F	L
1209001-000025	25	25.4	22.2	RD40x1/6	15.0
1209001-000038	38	38.1	34.9	RD60x1/6	20.0
1209001-000051	51	50.8	47.6	RD70x1/6	20.0



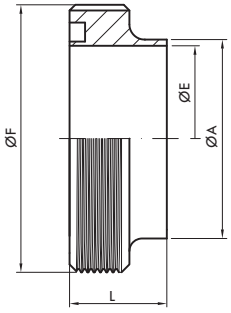
Male part

No.	Nom.Size	A	E	F	L
1209019-000025	25	25.0	22.5	RD40x1/6	15.0
1209019-000032	32	32.0	29.5	RD48x1/6	18.0
1209019-000038	38	38.0	35.5	RD60x1/6	20.0
1209019-000051	51	51.0	48.5	RD70x1/6	20.0
1209019-000063	63	63.5	60.5	RD85x1/6	24.0
1209019-000076	76	76.1	72.9	RD98x1/6	24.0
1209019-000101	101	101.6	97.6	RD132x1/6	35.0
1209019-001101	101-1	101.6	97.6	RD125x1/6	25.0



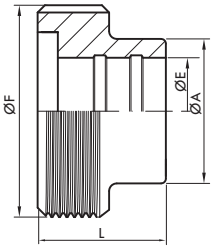
Male part

No.	Nom.Size	A	E	F	L
1209017-000025	25	25.0	22.5	RD40x1/6	19.0
1209017-000038	38	38.0	35.5	RD60x1/6	23.0
1209017-000051	51	51.0	48.5	RD70x1/6	23.0
1209017-000063	63	63.5	60.5	RD85x1/6	27.0
1209017-000076	76	76.1	72.9	RD98x1/6	27.0
1209017-000101	101	101.6	97.6	RD125x1/4	30.0
1209017-001101	101-1	101.6	97.6	RD132x1/6	35.0



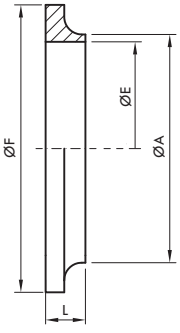
Male part

No.	Nom.Size	A	E	F	L
1209007-000025	25	31.8	25.1	RD40x1/6	20.0
1209007-000032	32	39.8	32.1	RD48x1/6	20.0
1209007-000038	38	47.8	38.1	RD60x1/6	23.0
1209007-000051	51	59.8	51.1	RD70x1/6	25.0
1209007-000063	63	73.3	63.6	RD85x1/6	30.0
1209007-000076	76	85.8	76.2	RD98x1/6	35.0
1209007-000101	101	116.0	101.7	RD132x1/6	40.0



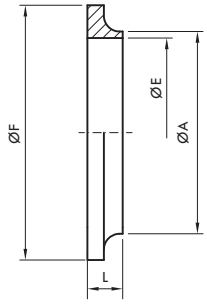
Liner

No.	Nom.Size	A	E	F	L
1210001-000025	25	25.4	22.2	35.5	7.5
1210001-000038	38	38.1	34.9	55.0	9.0
1210001-000051	51	50.8	47.6	65.0	9.0



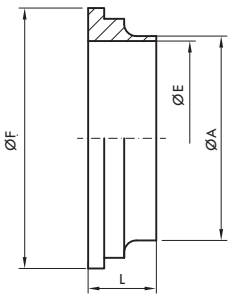
Liner

No.	Nom.Size	A	E	F	L
1210016-000025	25	25.0	22.6	35.5	7.5
1210016-000032	32	32.0	29.5	43.5	8.0
1210016-000038	38	38.0	35.6	55.0	9.0
1210016-000051	51	51.0	48.6	65.0	9.0
1210016-000063	63	63.5	60.3	80.0	9.0
1210016-000076	76	76.1	72.9	93.0	10.0
1210016-000101	101	101.6	97.6	127.0	12.0
1210016-001101	101-1	101.6	97.6	121.0	12.0



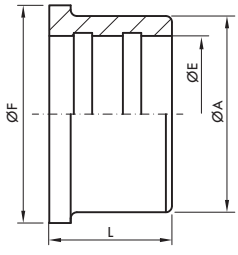
Liner

No.	Nom.Size	A	E	F	L
1210010-000025	25	25.0	22.5	35.5	15.5
1210010-000038	38	38.0	35.5	55.0	16.0
1210010-000051	51	51.0	48.5	65.0	17.0
1210010-000063	63	63.5	60.5	80.0	17.0
1210010-000076	76	76.1	72.9	93.0	19.0
1210010-000101	101	101.6	97.6	118.0	19.0
1210010-000201	101-2	101.6	97.6	127.0	19.0



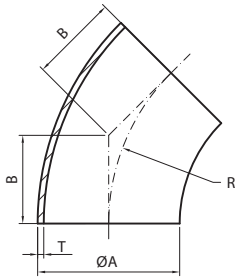
Liner

No.	Nom.Size	A	E	F	L
1210007-000025	25	32.0	25.5	35.5	17.0
1210007-000038	38	48.0	38.2	55.0	20.0
1210007-000051	51	60.0	50.9	65.0	20.0
1210007-000063	63	73.5	63.6	80.0	24.0
1210007-000076	76	86.0	76.3	93.0	30.0
1210007-000101	101	116.0	101.7	127.0	32.0



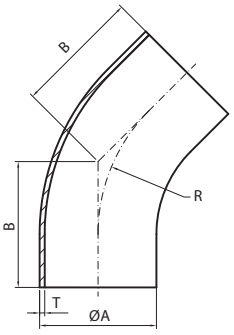
Automatic Tube Weld: 45° Elbow, Short

No.	Nom.Size	AxT	B	R
1206001-000025	25	25.0x1.2	15.33	37.0
1206001-000038	38	38.0x1.2	21.54	38.0
1206001-000051	51	51.0x1.2	31.1	51.0
1206001-000063	63	63.5x1.6	37.28	90.0
1206001-000076	76	76.1x1.6	39.35	95.0
1206001-000101	101	101.6x2.0	63.13	110.0
1206001-000104	104	104.0x2	62.13	150



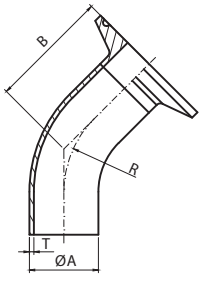
Automatic Tube Weld: 45° Elbow, Long

No.	Nom.Size	AxT	B	R
1206101-000025	25	25.0x1.2	27.0	32.0
1206101-000038	38	38.0x1.2	33.0	45.0
1206101-000051	51	51.0x1.2	37.0	58.0
1206101-000063	63	63.5x1.6	38.0	70.0
1206101-000076	76	76.1x1.6	40.0	76.0
1206101-000101	101	101.6x2.0	40.0	110.0



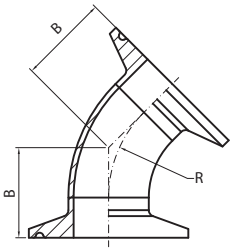
Automatic Tube Weld: Clamp Joint, 45° Elbow

No.	Nom.Size	AxT	B	R
1206301-000025	25	25.0x1.2	39.7	37.0
1206301-000038	38	38.0x1.2	45.7	38.0
1206301-000051	51	51.0x1.2	49.7	51.0
1206301-000063	63	63.5x1.6	50.7	90.0
1206301-000076	76	76.1x1.6	52.7	95.0
1206301-000101	101	101.6x2.0	55.8	110.0



Clamp Joint: 45° Elbow

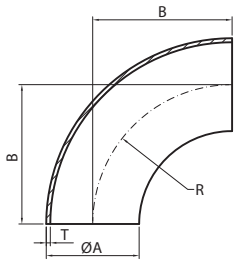
No.	Nom.Size	B	R
1206201-00025	25	36.8	37.0
1206201-00038	38	43.0	52.0
1206201-00051	51	52.6	75.0
1206201-00063	63	58.8	90.0
1206201-00076	76	60.9	95.0
1206201-00101	101	83.6	150.0



Automatic Tube Weld: 90° Elbow, Short

No.	Nom.Size	AxT	B	R
1206000-000025	25	25.0x1.2	37.0	37.0
1206000-000038	38	38.0x1.2	52.0	52.0
1206000-000051	51	51.0x1.2	75.0	75.0
1206000-000063	63	63.5x1.6	90.0	90.0
1206000-000076	76	76.1x1.6	95.0	95.0
1206000-000101	101	101.6x2.0	150.0	150.0

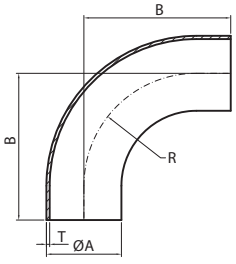
No.	Nom.Size	AxT	B	R
1206002-000025	25	25.0x1.2	37.5	37.5
1206002-000038	38	38.0x1.2	57.0	57.0
1206002-000051	51	51.0x1.2	76.5	76.5
1206002-000063	63	63.5x1.6	95.3	95.3
1206002-000076	76	76.1x1.6	114.2	114.2
1206002-000101	101	101.6x2.0	152.5	152.5



Automatic Tube Weld: 90° Elbow, Long

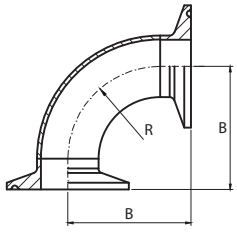
No.	Nom.Size	AxT	B	R
1206100-000025	25	25.0x1.2	55.0	32.0
1206100-000038	38	38.0x1.2	70.0	45.0
1206100-000051	51	51.0x1.2	82.0	58.0
1206100-000063	63	63.5x1.6	105.0	70.0
1206100-000076	76	76.1x1.6	110.0	76.0
1206100-000101	101	101.6x2.0	150.0	110.0

No.	Nom.Size	AxT	B	R
1206106-000025	25	25.0x1.2	55.0	25.0
1206106-000038	38	38.0x1.2	70.0	38.0
1206106-000051	51	51.0x1.2	82.0	51.0
1206106-000063	63	63.5x1.6	105.0	63.0
1206106-000076	76	76.1x2.0	110.0	76.0
1206106-000101	101	101.6x2.0	150.0	150.0



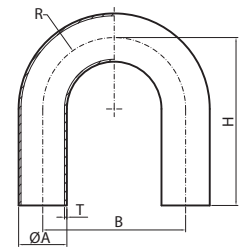
Clamp Joint: 90° Elbow

No.	Nom.Size	AxT	B	R
1206202-000025	25	25.0x1.2	49.7	37.0
1206202-000038	38	38.0x1.2	64.7	52.0
1206202-000051	51	51.0x1.2	87.7	75.0
1206202-000063	63	63.5x1.6	102.7	90.0
1206202-000076	76	76.1x1.6	107.7	95.0
1206202-000101	101	101.6x2.0	165.8	150.0



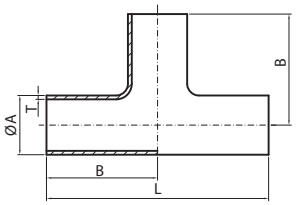
Automatic Tube Weld: 180° Elbow, Long

No.	Nom.Size	AxT	B	R	H
1206104-000025	25	25.0x1.2	74.0	37.0	96.5
1206104-000038	38	38.0x1.2	104.0	52.0	118.0
1206104-000051	51	51.0x1.2	150.0	75.0	147.5
1206104-000063	63	63.5x1.6	180.0	90.0	168.8
1206104-000076	76	76.1x1.6	190.0	95.0	180.0



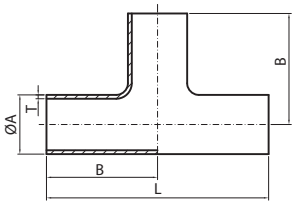
Automatic Tube Weld：Straight Tee

No.	Nom.Size	AxT	B	L
1203100-000025	25	25.0x1.2	55.0	110.0
1203100-000038	38	38.0x1.2	70.0	140.0
1203100-000051	51	51.0x1.2	82.0	164.0
1203100-000063	63	63.5x1.6	105.0	210.0
1203100-000076	76	76.1x1.6	110.0	220.0
1203100-000101	101	101.6x2.0	150.0	300.0



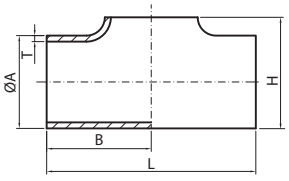
Automatic Tube Weld：Straight Tee

No.	Nom.Size	AxT	B	L
1203104-000025	25	25.0x1.2	28.6	57.2
1203104-000038	38	38.0x1.2	42.1	84.2
1203104-000051	51	51.0x1.2	52.4	104.8
1203104-000063	63	63.5x1.6	59.6	119.2
1203104-000076	76	76.1x1.6	65.9	131.8
1203104-000101	101	101.6x2.0	87.4	174.8



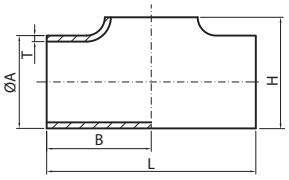
Automatic Tube Weld：Short Outlet Tee

No.	Nom.Size	AxT	B	H	L
1203004-000025	25	25.0x1.2	28.6	26.5	57.2
1203004-000038	38	38.0x1.2	42.1	40.0	84.2
1203004-000051	51	51.0x1.2	52.4	54.0	104.8
1203004-000063	63	63.5x1.6	59.6	67.1	119.2
1203004-000076	76	76.1x1.6	65.9	79.5	131.8
1203004-000101	101	101.6x2.0	87.4	105.5	174.8



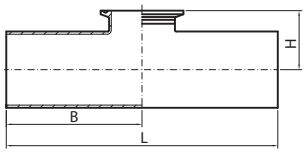
Automatic Tube Weld: Short Outlet Tee

No.	Nom.Size	AxT	B	H	L
1203000-000025	25	25.0x1.2	55.0	26.5	110.0
1203000-000038	38	38.0x1.2	70.0	40.0	140.0
1203000-000051	51	51.0x1.2	82.0	54.0	164.0
1203000-000063	63	63.5x1.6	105.0	67.1	210.0
1203000-000076	76	76.1x1.6	110.0	79.5	220.0
1203000-000101	101	101.6x2.0	150.0	105.5	300.0



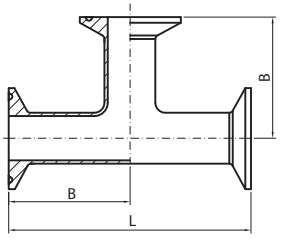
Automatic Tube Weld：Short Outlet Clamp Joint Tee

No.	Nom.Size	B	H	L
1203201-000025	25	55.0	26.7	110.0
1203201-000038	38	70.0	33.7	140.0
1203201-000051	51	82.0	41.2	164.0
1203201-000063	63	105.0	48.2	210.0
1203201-000076	76	110.0	54.2	220.0
1203201-000101	101	150.0	70.5	300.0



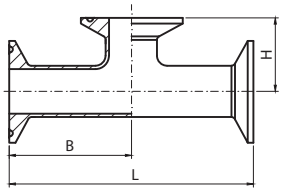
Clamp Joint: Straight Tee

No.	Nom.Size	B	L
1203300-000025	25	67.7	135.4
1203300-000038	38	82.7	165.4
1203300-000051	51	94.7	189.4
1203300-000063	63	117.7	235.4
1203300-000076	76	122.7	245.4
1203300-000101	101	165.8	331.6



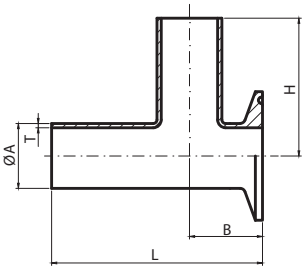
Clamp Joint: Short Outlet Tee

No.	Nom.Size	B	H	L
1203200-000025	25	67.7	26.7	135.4
1203200-000038	38	82.7	33.7	165.4
1203200-000051	51	94.7	41.2	189.4
1203200-000063	63	117.7	48.1	235.4
1203200-000076	76	122.7	54.1	245.4
1203200-000101	101	165.8	70.5	331.6



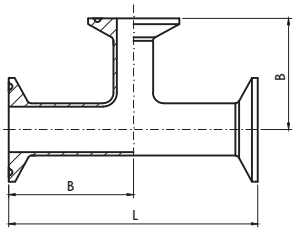
Hygienic Mechanical Joint: Short Outlet Run Tee

No.	Nom.Size	AxT	B	H	L
1203305-000025	25	25.0x1.2	28.6	54.0	82.6
1203305-000038	38	38.0x1.2	34.9	60.3	95.2
1203305-000051	51	51.0x1.2	41.3	73.0	114.3
1203305-000063	63	63.5x1.6	47.6	79.4	127.0
1203305-000076	76	76.1x1.6	54.0	85.7	139.7
1203305-000101	101	101.6x2.0	69.9	104.8	174.7



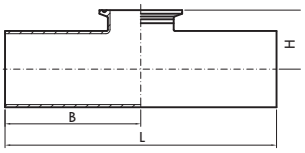
Clamp Joint: Reducing Tee

No.	Nom.Size	B	L
1203300-025012	25x12	67.7	135.4
1203300-025019	25x19	67.7	135.4
1203300-038012	38x12	82.7	165.4
1203300-038019	38x19	82.7	165.4
1203300-038025	38x25	82.7	165.4
1203300-051012	51x12	94.7	189.4
1203300-051019	51x19	94.7	189.4
1203300-051025	51x25	94.7	189.4
1203300-051038	51x38	94.7	164.0
1203300-063012	63x12	117.7	235.4
1203300-063019	63x19	117.7	235.4
1203300-063025	63x25	117.7	235.4
1203300-063038	63x38	117.7	235.4
1203300-063051	63x51	117.7	235.4
1203300-076012	76x12	122.7	245.4
1203300-076019	76x19	122.7	245.4
1203300-076025	76x25	122.7	245.4
1203300-076038	76x38	122.7	245.4
1203300-076051	76x51	122.7	245.4
1203300-076063	76x63	122.7	245.4
1203300-101025	101x25	162.7	331.6
1203300-101038	101x38	162.7	331.6
1203300-101051	101x51	162.7	331.6
1203300-101063	101x63	162.7	331.6
1203300-101076	101x76	162.7	331.6



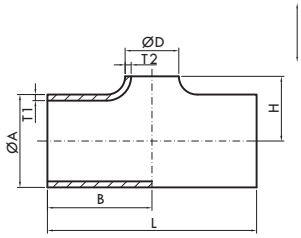
Automatic Tube Weld: Clamp Joint, Reducing Tee

No.	Nom.Size	B	H	L
1203201-025012	25x12	55.0	26.7	110
1203201-025019	25x19	55.0	26.7	110
1203201-038012	38x12	70.0	33.7	140
1203201-038019	38x19	70.0	33.7	140
1203201-038025	38x25	70.0	33.7	164
1203201-051012	51x12	82.0	41.2	164
1203201-051019	51x19	82.0	41.2	164
1203201-051025	51x25	82.0	41.2	164
1203201-051038	51x38	82.0	41.2	210
1203201-063012	63x12	105.0	48.0	210
1203201-063019	63x19	105.0	48.0	210
1203201-063025	63x25	105.0	47.3	210
1203201-063038	63x38	105.0	47.6	210
1203201-063051	63x51	105.0	47.6	220
1203201-076012	76x12	110.0	53.2	220
1203201-076019	76x19	110.0	53.2	220
1203201-076025	76x25	110.0	53.7	220
1203201-076038	76x38	110.0	53.7	220
1203201-076051	76x51	110.0	53.7	220
1203201-076063	76x63	110.0	53.7	300
1203201-101025	101x25	110.0	67.7	300
1203201-101035	101x38	150.0	67.7	300
1203201-101051	101x51	150.0	67.7	300
1203201-101063	101x63	150.0	67.7	300
1203201-101076	101x76	150.0	67.7	300



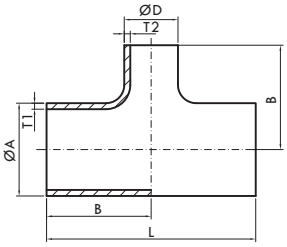
Automatic Tube Weld: Short Outlet Reducing Tee

No.	Nom.Size	AxT1	DxT2	B	H	L
1203000-025012	25x12	25.0x1.2	12.7x1.2	55.0	14.0	110.0
1203000-025019	25x19	25.0x1.2	19.0x1.2	55.0	14.0	110.0
1203000-038012	38x12	38.0x1.2	12.7x1.2	70.0	21.0	140.0
1203000-038019	38x19	38.0x1.2	19.0x1.2	70.0	21.0	140.0
1203000-038025	38x25	38.0x1.2	25.0x1.2	70.0	21.0	140.0
1203000-051012	51x12	51.0x1.2	12.7x1.2	82.0	28.5	164.0
1203000-051019	51x19	51.0x1.2	19.0x1.2	82.0	28.5	164.0
1203000-051025	51x25	51.0x1.2	25.0x1.2	82.0	28.5	164.0
1203000-051038	51x38	51.0x1.2	38.0x1.2	82.0	28.5	164.0
1203000-063012	63x12	63.5x1.6	12.7x1.6	105.0	35.25	210.0
1203000-063019	63x19	63.5x1.6	19.0x1.6	105.0	35.25	210.0
1203000-063025	63x25	63.5x1.6	25.0x1.2	105.0	34.5	210.0
1203000-063038	63x38	63.5x1.6	38.0x1.2	105.0	34.85	210.0
1203000-063051	63x51	63.5x1.6	51.0x1.2	105.0	40.5	210.0
1203000-076012	76x12	76.1x1.6	12.7x1.6	110.0	40.5	220.0
1203000-076019	76x19	76.1x1.6	19.0x1.6	110.0	41.0	220.0
1203000-076025	76x25	76.1x1.6	25.0x1.2	110.0	41.0	220.0
1203000-076038	76x38	76.1x1.6	38.0x1.2	110.0	41.0	220.0
1203000-076051	76x51	76.1x1.6	51.0x1.2	110.0	41.0	220.0
1203000-076063	76x63	76.1x1.6	63.5x1.6	110.0	54.7	220.0
1203000-101012	101x12	101.6x2.0	12.7x1.6	150.0	54.7	300.0
1203000-101019	101x19	101.6x2.0	19.0x1.6	150.0	54.7	300.0
1203000-101025	101x25	101.6x2.0	25.0x1.2	150.0	54.7	300.0
1203000-101038	101x38	101.6x2.0	38.0x1.2	150.0	54.7	300.0
1203000-101051	101x51	101.6x2.0	51.0x1.2	150.0	54.7	300.0
1203000-101063	101x63	101.6x2.0	63.5x1.6	150.0	54.7	300.0
1203000-101076	101x76	101.6x2.0	76.1x1.6	150.0	54.7	300.0



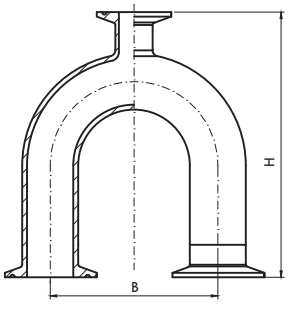
Automatic Tube Weld: Reducing Tee

No.	Nom.Size	AxT1	DxT2	B	L
1203100-025012	25x12	25.0x1.2	12.7x1.6	55.0	110.0
1203100-025019	25x19	25.0x1.2	19.0x1.6	55.0	110.0
1203100-038012	38x12	38.0x1.2	12.7x1.6	70.0	140.0
1203100-038019	38x19	38.0x1.2	19.0x1.6	70.0	140.0
1203100-038025	38x25	38.0x1.2	25.0x1.2	70.0	140.0
1203100-051012	51x12	51.0x1.2	12.7x1.6	82.0	164.0
1203100-051019	51x19	51.0x1.2	19.0x1.6	82.0	164.0
1203100-051025	51x25	51.0x1.2	25.0x1.2	82.0	164.0
1203100-051038	51x38	51.0x1.2	38.0x1.2	82.0	164.0
1203100-063012	63x12	63.5x1.6	12.7x1.6	105.0	210.0
1203100-063019	63x19	63.5x1.6	19.0x1.6	105.0	210.0
1203100-063025	63x25	63.5x1.6	25.0x1.2	105.0	210.0
1203100-063038	63x38	63.5x1.6	38.0x1.2	105.0	210.0
1203100-063051	63x51	63.5x1.6	51.0x1.2	105.0	210.0
1203100-076012	76x12	76.1x1.6	12.7x1.6	110.0	220.0
1203100-076019	76x19	76.1x1.6	19.0x1.6	110.0	220.0
1203100-076025	76x25	76.1x1.6	25.0x1.2	110.0	220.0
1203100-076038	76x38	76.1x1.6	38.0x1.2	110.0	220.0
1203100-076051	76x51	76.1x1.6	51.0x1.2	110.0	220.0
1203100-076063	76x63	76.1x1.6	63.5x1.6	110.0	220.0
1203100-101025	101x25	101.6x2.0	25.0x1.2	150.0	300.0
1203100-101038	101x38	101.6x2.0	38.0x1.2	150.0	300.0
1203100-101051	101x51	101.6x2.0	51.0x1.2	150.0	300.0
1203100-101063	101x63	101.6x2.0	63.5x1.6	150.0	300.0
1203100-101076	101x76	101.6x2.0	76.1x1.6	150.0	300.0



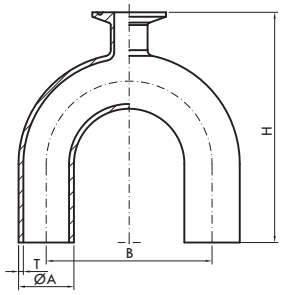
Clamp Joint: Short Outlet, 180° Return Bend

No.	Nom.Size	B	H
1206310-025012	25x12	114.3	114.8
1206310-025019	25x19	114.3	114.8
1206310-025025	25x25	114.3	114.8
1206310-038012	38x12	152.4	161.0
1206310-038019	38x19	152.4	161.0
1206310-038025	38x25	152.4	161.4
1206310-038038	38x38	152.4	161.4
1206310-051012	51x12	152.4	180.8
1206310-051019	51x19	152.4	180.8
1206310-051025	51x25	152.4	180.8
1206310-051038	51x38	152.4	181.1
1206310-051051	51x51	152.4	181.1
1206310-063012	63x12	190.5	206.7
1206310-063019	63x19	190.5	206.7
1206310-063025	63x25	190.5	206.7
1206310-063038	63x38	190.5	206.7
1206310-063051	63x51	190.5	206.7



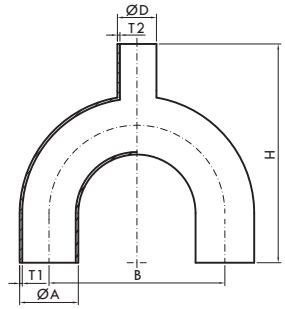
Automatic Tube Weld: Short Outlet Clamp Joint , 180° Return Bend

No.	Nom.Size	AxT	B	H
1206309-025012	25x12	25.0x1.2	114.3	102.1
1206309-025019	25x19	25.0x1.2	114.3	102.1
1206309-025025	25x25	25.0x1.2	114.3	102.1
1206309-038012	38x12	38.0x1.2	152.4	148.3
1206309-038019	38x19	38.0x1.2	152.4	148.3
1206309-038025	38x25	38.0x1.2	152.4	148.7
1206309-038038	38x38	38.0x1.2	152.4	148.7
1206309-051012	51x12	51.0x1.2	152.4	168.1
1206309-051019	51x19	51.0x1.2	152.4	168.1
1206309-051025	51x25	51.0x1.2	152.4	168.1
1206309-051038	51x38	51.0x1.2	152.4	168.4
1206309-051051	51x51	51.0x1.2	152.4	168.4
1206309-063012	63x12	63.5x1.6	190.5	194.0
1206309-063019	63x19	63.5x1.6	19.05	194.0
1206309-063025	63x25	63.5x1.6	19.05	194.0
1206309-063038	63x38	63.5x1.6	190.5	194.0
1206309-063051	63x51	63.5x1.6	190.5	194.0
1206309-076012	76x12	76.1x1.6	228.6	217.4
1206309-076019	76x19	76.1x1.6	228.6	219.3
1206309-076025	76x25	76.1x1.6	228.6	219.3
1206309-076038	76x38	76.1x1.6	228.6	219.3
1206309-076051	76x51	76.1x1.6	228.6	219.3



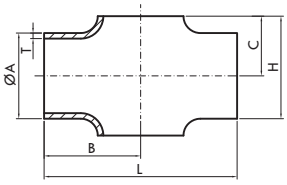
Automatic Tube Weld: Short Outlet, 180° Return Bend

No.	Nom.Size	AxT1	DxT2	B	H
1206109-025012	25x12	25.0x1.2	12.7x1.6	114.3	108.45
1206109-025019	25x19	25.0x1.2	19.0x1.6	114.3	108.45
1206109-025025	25x25	25.0x1.2	25.0x1.2	114.3	108.45
1206109-038012	38x12	38.0x1.2	12.7x1.6	152.4	173.7
1206109-038019	38x19	38.0x1.2	19.0x1.6	152.4	173.7
1206109-038025	38x25	38.0x1.2	25.0x1.2	152.4	174.1
1206109-038038	38x38	38.0x1.2	38.0x1.2	152.4	174.1
1206109-051012	51x12	51.0x1.2	12.7x1.6	152.4	206.2
1206109-051019	51x19	51.0x1.2	19.0x1.6	152.4	206.2
1206109-051025	51x25	51.0x1.2	25.0x1.2	152.4	206.2
1206109-051038	51x38	51.0x1.2	38.0x1.2	152.4	206.5
1206109-051051	51x51	51.0x1.2	51.0x1.2	152.4	206.5
1206109-063012	63x12	63.5x1.6	12.7x1.6	190.5	232.2
1206109-063019	63x19	63.5x1.6	19.0x1.6	190.5	232.2
1206109-063025	63x25	63.5x1.6	25.0x1.2	190.5	232.2
1206109-063038	63x38	63.5x1.6	38.0x1.2	190.5	232.2
1206109-063051	63x51	63.5x1.6	51.0x1.2	190.5	232.2
1206109-076012	76x12	76.1x1.6	12.7x1.6	228.6	255.5
1206109-076019	76x19	76.1x1.6	19.0x1.6	228.6	257.4
1206109-076025	76x25	76.1x1.6	25.0x1.2	228.6	257.4
1206109-076038	76x38	76.1x1.6	38.0x1.2	228.6	257.4
1206109-076051	76x51	76.1x1.6	51.0x1.2	228.6	257.4



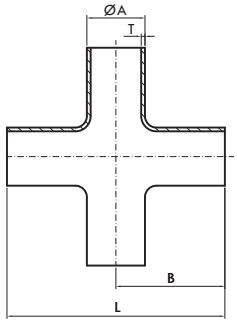
Automatic Tube Weld: Short Outlet Cross

No.	Nom.Size	AxT	B	C	H	L
1204000-000025	25	25.0x1.2	55.0	14.0	28.0	110.0
1204000-000038	38	38.0x1.2	70.0	21.0	42.0	140.0
1204000-000051	51	51.0x1.2	82.0	28.5	57.0	164.0
1204000-000063	63	63.5x1.6	105.0	35.4	70.7	210.0
1204000-000076	76	76.1x1.6	110.0	41.5	83.0	220.0
1204000-000101	101	101.6x2.0	150.0	54.7	109.4	300.0
1204000-000104	104	104.0x2.0	150.0	57.5	115.0	300.0



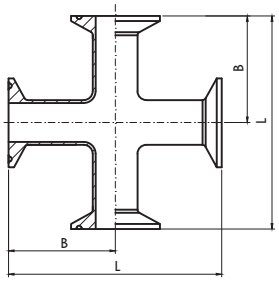
Automatic Tube Weld: Straight Cross

No.	Nom.Size	AxT	B	L
1204100-000025	25	25.0x1.2	55.0	110.0
1204100-000038	38	38.0x1.2	70.0	140.0
1204100-000051	51	51.0x1.2	82.0	164.0
1204100-000063	63	63.5x1.6	105.0	210.0
1204100-000076	76	76.1x1.6	110.0	220.0
1204100-000104	104	104.0x2.0	150.0	300.0



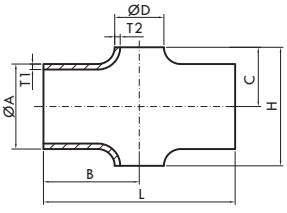
Clamp Joint: Straight Cross

No.	Nom.Size	B	L
1204300-000025	25	67.7	135.4
1204300-000038	38	82.7	165.4
1204300-000051	51	94.7	189.4
1204300-000063	63	117.7	235.4
1204300-000076	76	122.7	245.4
1204300-000101	101	165.8	331.6



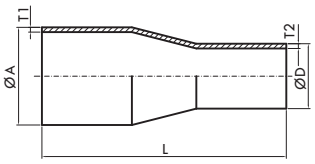
Automatic Tube Weld: Short Outlet Reducing Cross

No.	Nom.Size	AxT1	DxT2	B	C	H	L
1204000-025019	25x19	25.0x1.2	19.0x1.2	55.0	14.0	28.0	110.0
1204000-038019	38x19	38.0x1.2	19.0x1.2	70.0	21.0	42.0	140.0
1204000-038025	38x25	38.0x1.2	25.0x1.2	70.0	21.0	42.0	140.0
1204000-051025	51x25	51.0x1.2	25.0x1.2	82.0	29.0	58.0	164.0
1204000-051038	51x38	51.0x1.2	38.0x1.2	82.0	29.0	58.0	164.0
1204000-063025	63x25	63.5x1.6	25.0x1.2	105.0	35.3	70.6	210.0
1204000-063038	63x38	63.5x1.6	38.0x1.2	105.0	35.3	70.6	210.0
1204000-063051	63x51	63.5x1.6	51.0x1.2	105.0	35.3	70.6	210.0
1204000-076025	76x25	76.0x1.6	25.0x1.2	110.0	41.0	82.0	220.0
1204000-076038	76x38	76.0x1.6	38.0x1.2	110.0	41.0	82.0	220.0
1204000-076051	76x51	76.0x1.6	51.0x1.2	110.0	41.4	82.8	220.0
1204000-076063	76x63	76.0x1.6	63.5x1.6	110.0	41.4	82.8	220.0
1204000-101025	101x25	101.6x2.0	25.0x1.2	150	55.0	110.0	300.0
1204000-101038	101x38	101.6x2.0	38.0x1.2	150	55.0	110.0	300.0
1204000-101051	101x51	101.6x2.0	51.0x1.2	150	57.4	114.8	300.0
1204000-101063	101x63	101.6x2.0	63.5x1.6	150	58.3	116.6	300.0
1204000-101076	101x76	101.6x2.0	76.1x1.6	150	58.3	116.6	300.0



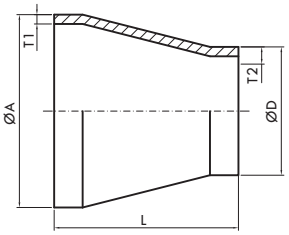
Automatic Tube Weld：Concentric Reducer, Long

No.	Nom.Size	AxT1	DxT2	L
1205002-019009	19x09	19.0x1.6	9.53x0.89	99.0
1205002-019012	19x12	19.0x1.6	12.7x1.6	85.0
1205002-025012	25x12	25.0x1.2	12.7x1.6	85.0
1205002-025019	25x19	25.0x1.2	19.0x1.6	99.0
1205002-038009	38x09	38.0x1.2	9.53x0.89	99.0
1205002-038012	38x12	38.0x1.2	12.7x1.6	85.0
1205002-038019	38x19	38.0x1.2	19.0x1.6	85.0
1205002-038025	38x25	38.0x1.2	25.0x1.2	99.0
1205002-051012	51x12	51.0x1.2	12.7x1.6	85.0
1205002-051019	51x19	51.0x1.2	19.0x1.5	117.0
1205002-051025	51x25	51.0x1.2	25.0x1.2	117.0
1205002-051038	51x38	51.0x1.2	38.0x1.2	99.0
1205002-063025	63x25	63.5x1.6	25.0x1.2	134.0
1205002-063038	63x38	63.5x1.6	38.0x1.2	117.0
1205002-063051	63x51	63.5x1.6	51.0x1.2	99.0
1205002-076025	76x25	76.5x1.6	25.0x1.2	152.0
1205002-076038	76x38	76.5x1.6	38.0x1.2	134.0
1205002-076051	76x25	76.1x1.6	51.0x1.2	117.0
1205002-076063	76x63	76.1x1.6	63.5x1.6	99.0
1205002-101025	101x25	101.6x2.0	25.0x1.2	192.5
1205002-101038	101x38	101.6x2.0	38.0x1.2	173.8
1205002-101051	101x51	101.6x2.0	51.0x1.2	155.0
1205002-101063	101x63	101.6x2.0	63.5x1.6	138.0
1205002-101076	101x76	101.6x2.0	76.1x1.6	120.0



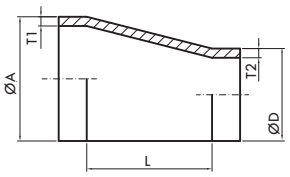
Automatic Tube Weld：Concentric Reducer, Short

No.	Nom.Size	AxT1	DxT2	L
1205000-019009	19x09	19.0x1.2	9.53x0.89	39.0
1205000-019012	19x12	19.0x1.2	12.7x1.6	39.0
1205000-025012	25x12	25.0x1.2	12.7x1.6	25.0
1205000-025019	25x19	25.0x1.2	19.0x1.6	39.0
1205000-038009	38x09	38.0x1.2	9.53x0.89	39.0
1205000-038012	38x12	38.0x1.2	12.7x1.6	25.0
1205000-038019	38x19	38.0x1.2	19.0x1.6	25.0
1205000-038025	38x25	38.0x1.2	25.0x1.2	39.0
1205000-051012	51x12	51.0x1.2	12.7x1.6	25.0
1205000-051019	51x19	51.0x1.2	19.0x1.6	57.0
1205000-051025	51x25	51.0x1.2	25.0x1.2	57.0
1205000-051038	51x38	51.0x1.2	38.0x1.2	39.0
1205000-063025	63x25	63.5x1.6	25.0x1.2	74.0
1205000-063038	63x38	63.5x1.6	38.0x1.2	57.0
1205000-063051	63x51	63.5x1.6	51.0x1.2	39.0
1205000-076025	76x25	76.1x1.6	25.0x1.2	92.0
1205000-076038	76x38	76.1x1.6	38.0x1.2	74.0
1205000-076051	76x51	76.1x1.6	51.0x1.2	57.0
1205000-076063	76x63	76.1x1.6	63.5x1.6	39.0
1205000-101025	101x25	101.6x2.0	25.0x1.2	132.5
1205000-101038	101x38	101.6x2.0	38.0x1.2	113.8
1205000-101051	101x51	101.6x2.0	51.0x1.2	95.0
1205000-101063	101x63	101.6x2.0	63.5x1.6	78.0
1205000-101076	101x76	101.6x2.0	76.1x1.6	60.0



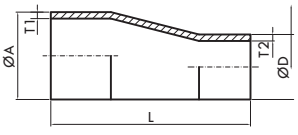
Automatic Tube Weld: Eccentric Reducer, Short

No.	Nom.Size	AxT1	DxT2	L
1205100-038025	38x25	38.0x1.2	25.0x1.2	46.0
1205100-051025	51x25	51.0x1.2	25.0x1.2	68.0
1205100-051038	51x38	51.0x1.2	38.0x1.2	47.0
1205100-063025	63x25	63.5x1.6	25.0x1.2	90.5
1205100-063038	63x38	63.5x1.6	38.0x1.2	70.0
1205100-063051	63x51	63.5x1.6	51.0x1.2	44.0
1205100-076025	76x25	76.1x1.6	25.0x1.2	113
1205100-076038	76x38	76.1x1.6	38.0x1.2	89.0
1205100-076051	76x51	76.1x1.6	51.0x1.2	68.0
1205100-076063	76x63	76.1x1.6	63.5x1.6	47.0
1205100-101051	101x51	101.6x2.0	51.0x1.2	117.0
1205100-101063	101x63	101.6x2.0	63.5x1.6	94.0
1205100-101076	101x76	101.6x2.0	76.1x1.6	74.0
1205100-104051	104x51	104.0x2.0	51.0x1.2	117.0
1205100-104063	104x63	104.0x2.0	63.5x1.6	93.0
1205100-104076	104x76	104.0x2.0	76.1x1.6	73.0



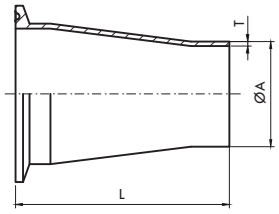
Automatic Tube Weld: Eccentric Reducer, Long

No.	Nom.Size	AxT1	DxT2	L
1205102-025012	25x12	25.0x1.2	12.7x1.6	98.1
1205102-025019	25x19	25.0x1.2	19.0x1.6	99.4
1205102-038019	38x19	38.0x1.2	19.0x1.6	110.8
1205102-038025	38x25	38.0x1.2	25.0x1.2	106.0
1205102-051025	51x25	51.0x1.2	25.0x1.2	128.0
1205102-051038	51x38	51.0x1.2	38.0x1.2	107.0
1205102-063025	63x25	63.5x1.6	25.0x1.2	150.5
1205102-063038	63x38	63.5x1.6	38.0x1.2	130.0
1205102-063051	63x51	63.5x1.6	51.0x1.2	104.0
1205102-076025	76x25	76.1x1.6	25.0x1.2	173.0
1205102-076038	76x38	76.1x1.6	38.0x1.2	149.0
1205102-076051	76x51	76.1x1.6	51.0x1.2	128.0
1205102-076063	76x63	76.1x1.6	63.5x1.6	107.0
1205102-101051	101x51	101.6x2.0	51.0x1.2	177.0
1205102-101063	101x63	101.6x2.0	63.5x1.6	154.0
1205102-101076	101x76	101.6x2.0	76.1x1.6	134.0
1205102-104051	104x51	104.0x2.0	51.0x1.6	177.0
1205102-104063	104x63	104.0x2.0	63.5x1.6	154.0
1205102-104076	104x76	104.0x2.0	76.1x1.6	134.0



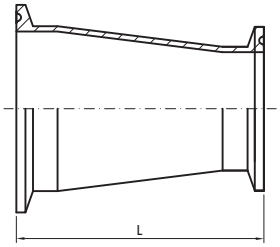
Clamp Joint: Tube Weld Concentric Reducer

No.	Nom.Size	AxT	L
1205201-019009	19x09	9.53x0.89	81.7
1205201-019012	19x12	12.7x1.6	81.7
1205201-025012	25x12	12.7x16	67.7
1205201-025019	25x19	19.0x1.6	67.7
1205201-038009	38x09	9.53x0.89	81.7
1205201-038012	38x12	12.7x1.6	67.7
1205201-038019	38x19	19.0x1.6	67.7
1205201-038025	38x25	25.0x1.2	81.7
1205201-051012	51x12	12.7x1.6	67.7
1205201-051025	51x25	25.0x1.2	99.7
1205201-051038	51x38	38.0x1.2	99.7
1205201-063025	63x25	25.0x1.2	81.7
1205201-063038	63x38	38.0x1.2	116.7
1205201-063051	63x51	51.0x1.2	99.7
1205201-076025	76x25	25.0x1.2	81.7
1205201-076038	76x38	38.0x1.2	134.7
1205201-076051	76x51	51.0x1.2	116.7
1205201-076063	76x63	63.0x1.2	99.7
1205201-101025	101x25	25.0x1.2	81.7
1205201-101038	101x38	38.0x1.2	178.3
1205201-101051	101x51	51.0x1.2	140.8
1205201-101063	101x63	63.5x1.6	123.8
1205201-101076	101x76	76.1x1.6	105.8



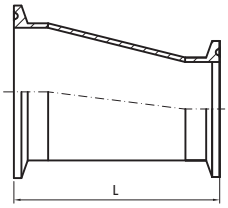
Clamp Joint: Concentric Reducer

No.	Nom.Size	L
1205200-025012	25x12	50.4
1205200-025019	15x19	50.4
1205200-038019	38x19	50.4
1205200-038025	38x25	64.4
1205200-051025	51x25	82.4
1205200-051038	51x38	64.4
1205200-063025	63x25	99.4
1205200-063038	63x38	82.4
1205200-063051	63x51	64.4
1205200-076025	76x25	117.4
1205200-076038	76x38	99.4
1205200-076051	76x51	82.4
1205200-076063	76x63	64.4
1205200-101051	101x51	123.5
1205200-101063	101x63	106.5
1205200-101076	101x76	88.5
1205200-104051	104x51	123.5
1205200-104063	104x63	106.5
1205200-104076	104x76	88.5



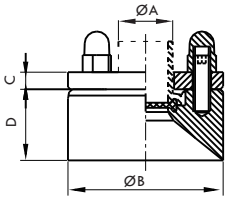
Clamp Joint: Eccentric Reducer

No.	Nom.Size	L
1205300-038025	38x25	71.4
1205300-051025	51x25	93.4
1205300-051038	51x38	72.4
1205300-063025	63x25	115.9
1205300-063038	63x38	95.4
1205300-063051	63x51	69.4
1205300-076025	76x25	138.4
1205300-076038	76x38	114.4
1205300-076051	76x51	93.4
1205300-076063	76x63	72.4
1205300-101051	101x51	145.5
1205300-101063	101x63	122.5
1205300-101076	101x76	102.5
1205300-104051	104x51	145.5
1205300-104063	104x63	121.5
1205300-104076	104x76	101.5



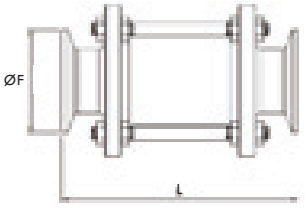
Flange

No.	A	B	C	D
5501K01-007500	3/4"	54.5	6.0	25.0
5501K01-010000	1.0"	84.5	6.0	25.0
5501K01-015000	1.5"	84.5	6.0	25.0
5501K01-020000	2.0"	99.5	6.0	25.0
5501K01-025000	2.5"	112.0	10.0	38.0
5501K01-030000	3.0"	131.0	10.0	38.0



Sight Glass

No.	Nom.Size	F	L
1538100-000100	1.0"	50.4	140.4
1538100-000150	1.5"	50.4	140.4
1538100-000200	2.0"	63.9	140.4
1538100-000250	2.5"	77.5	155.4
1538100-000300	3.0"	90.9	155.4



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

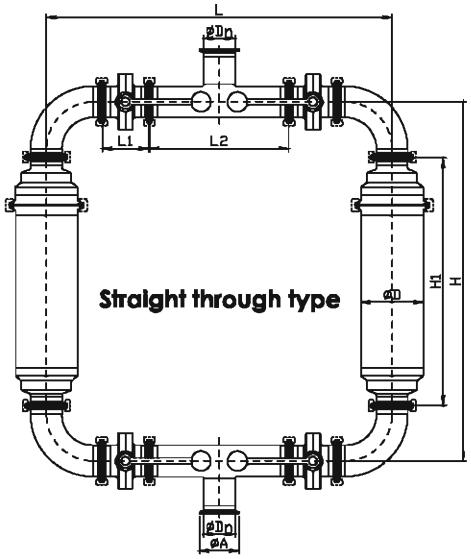
- All parts are made of stainless steel (AISI 304/316L).
- 30 to 300 mesh filter cartridges are available upon request.The filter cartridges can be mounted and dismounted without use of tools.
- The two filters can run alternatively or continually so that they can be replaced or cleaned online.

Options

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

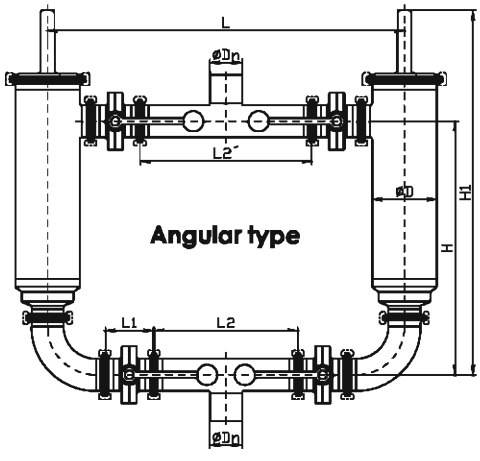
Technical Data

Items	Details
Working pressure	0-10Bar, 0-145psi
Gasket	EPDM
Operating temperature	-10° C-120° C, 14° F to 248° F (EPDM) +140° C, 248° F (SIP, ≤ 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 through type)

Size	A	L	L1	L2	H1	H	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



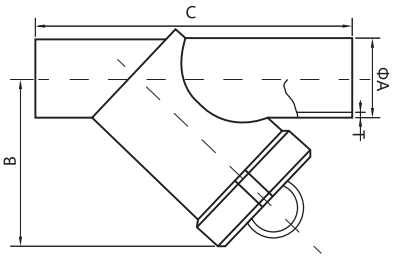
Duplex Filtration Systems (Angular type)

Size	A	L	L1	L2	H1	H	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

Y-Type filter (Weld)

Material: 304/Seal: Silicone/lining: 80mesh

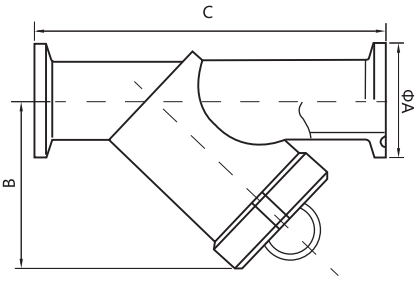
NO.	Size	A	B	C	T
1239710-000025	25	25.0	95.0	125.0	1.2
1239710-000032	32	31.8	104.0	140.0	1.2
1239710-000038	38	38.0	110.0	165.0	1.2
1239710-000051	51	51.0	140.0	195.0	1.2
1239710-000063	63	63.5	185.0	230.0	1.6
1239710-000076	76	76.1	220.0	280.0	1.6
1239710-000100	100	101.6	248.0	340.0	2.0



Y-Type filter (Clamp)

Material: 304/Seal: Silicone/Lining: 80 mesh

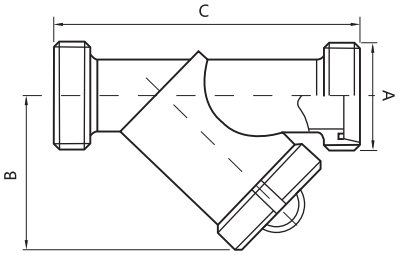
NO.	Size	A	B	C
1239700-000025	25	50.5	95.0	125.0
1239700-000032	32	50.5	104.0	140.0
1239700-000038	38	50.5	110.0	165.0
1239700-000051	51	64.0	140.0	195.0
1239700-000063	63	91.0	185.0	230.0
1239700-000076	76	106.0	220.0	280.0
1239700-000100	100	119.0	248.0	340.0



Y-Type filter (Thread)

Material: 304/Seal: Silicone/Lining: 80N

NO.	Size	A	B	C
1239700-000025	25	RD52X1/6	95.0	125.0
1239700-000032	32	RD58X1/6	104.0	140.0
1239700-000038	38	RD65X1/6	110.0	165.0
1239700-000051	51	RD78X1/6	140.0	195.0
1239700-000063	63	RD95X1/6	185.0	230.0
1239700-000076	76	RD110X1/6	220.0	280.0
1239700-000100	100	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:

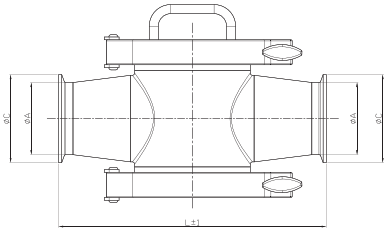
Install a magnetic Filtration Systems in the liquid transport pipeline and transmit the fluid medium into the Filtration Systems through the magnetic Filtration Systems via a number of flow ports, and then fully contact magnetic rod in the big pipe of the Filtration Systems with magnetic force of the 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)

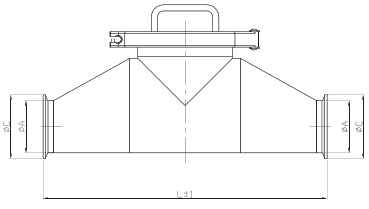
BS-C Cylinder type magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
25	25.4	50.4	775.2	4	≤120℃	≥12,000	1Mpa
38	38.1	50.4	673.6	4			
51	50.8	63.9	572	4			
63.5	63.5	77.5	470.4	6			
76.1	76.2	90.9	492.3	6			
101.6	101.6	118.9	492.3	6			



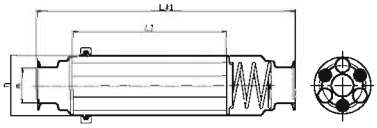
BS-E Cylinder type magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
25	25.4	50.4	786.8	4	≤120℃	≥12,000	1Mpa
38	38.1	50.4	685.2	4			
51	50.8	63.9	583.6	4			
63.5	63.5	77.5	482	4			
76.1	76.2	90.9	517	6			
101.6	101.6	118.9	517	6			



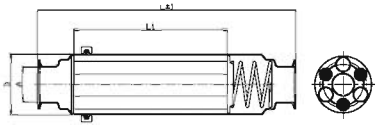
TS-N Magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	L1 (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
25	25.4	101.6	402	240	3	≤120℃	≥12,000	1Mpa
38	38.1	101.6	402	240	3			
51	50.8	101.6	402	240	3			
63.5	63.5	114.3	402	240	3			
76.1	76.2	114.3	402	240	3			
101.6	101.6	127	402	240	4			



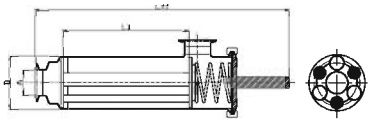
TS-L Magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	L1 (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
25	25.4	101.6	897	790	3	≤120℃	≥12,000	1Mpa
38	38.1	101.6	897	790	3			
51	50.8	101.6	897	790	3			
63.5	63.5	114.3	897	790	3			
76.1	76.2	114.3	897	790	3			
101.6	101.6	127	897	790	4			



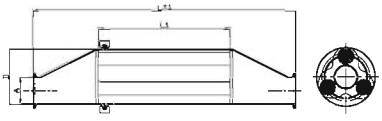
TS-A Magnetic filter

SIZE	A (mm)	C (mm)	L (mm)	L1 (mm)	Number of magnetic rods (Piece)	Range of operating temperature (℃)	Magnetic force (GS)	Operating pressure (Mpa)
25	25.4	101.6	483	240	3	≤120℃	≥12,000	1Mpa
38	38.1	101.6	483	240	3			
51	50.8	101.6	483	240	3			
63.5	63.5	114.3	483	240	3			
76.1	76.2	114.3	483	240	3			
101.6	101.6	127	483	240	4			



TS-B 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)
25	25.4	101.6	575	240	3	≤120℃	≥12,000	1Mpa
38	38.1	101.6	509	240	3			
51	50.8	101.6	459	240	3			
63.5	63.5	114.3	411	240	3			
76.1	76.2	114.3	419	240	3			
101.6	101.6	127	465	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,

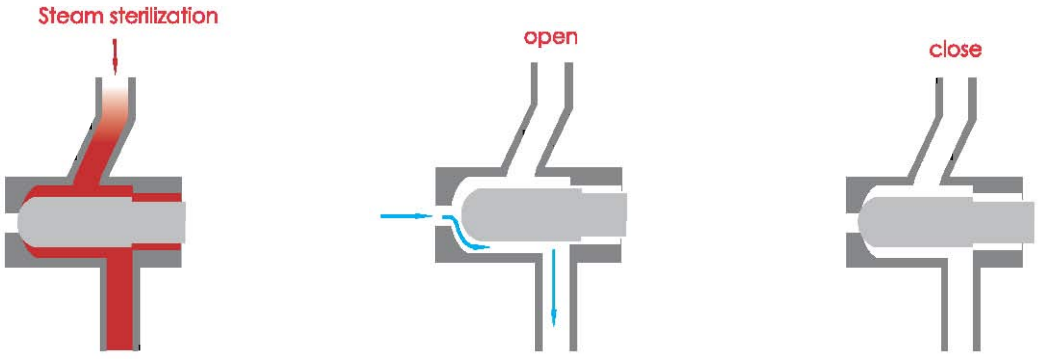
3,pressure 2bar,

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.

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℃（Max20min）
Connection	weld, clamp

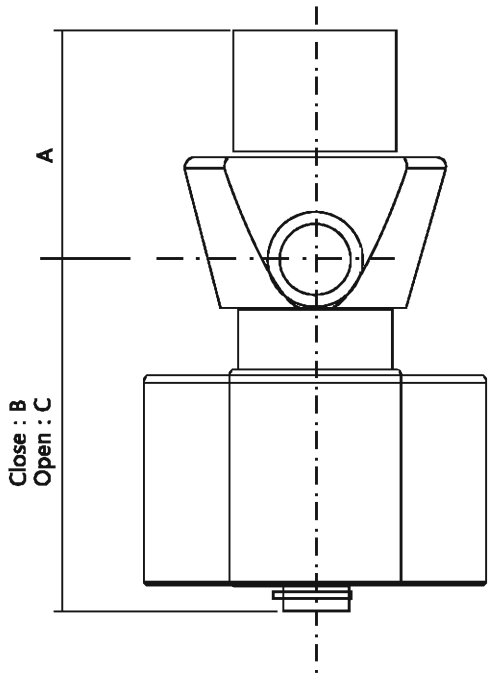
SS6

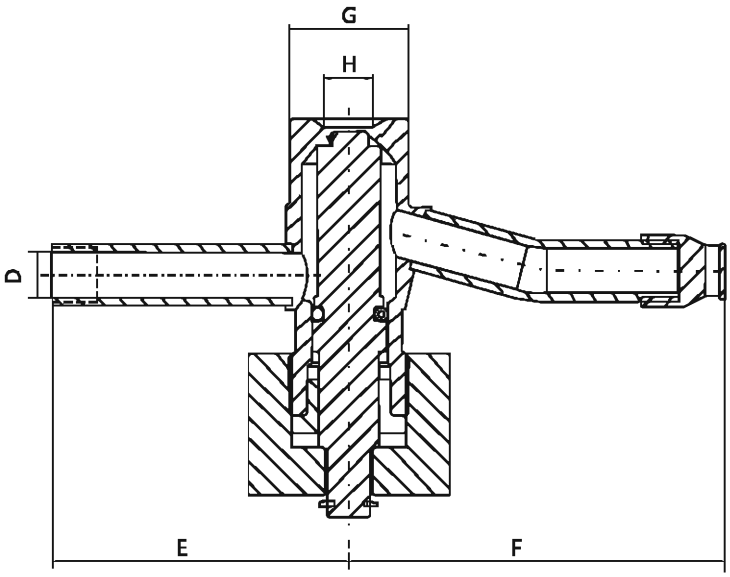
SS9

S6

Size

No.	A	B	C	D	E	F	G	H	Trip
KSB-S6	24.5	49.5	51.9	6	49.5	/	19	6	4
KSB-SS6	34.5	47	50.4	6	51	62.7	19	6	3.4
KSB-SS9	32	49.5	55	9	62	78.5	25	9	5.5





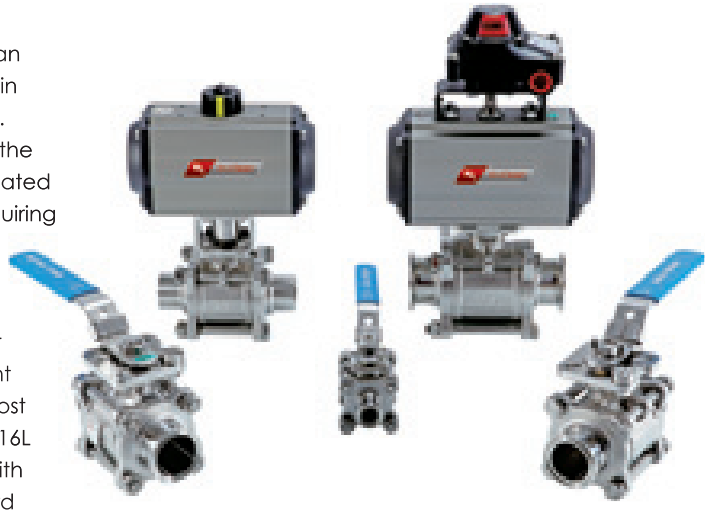
KBV Sanitary Ball Valves

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.

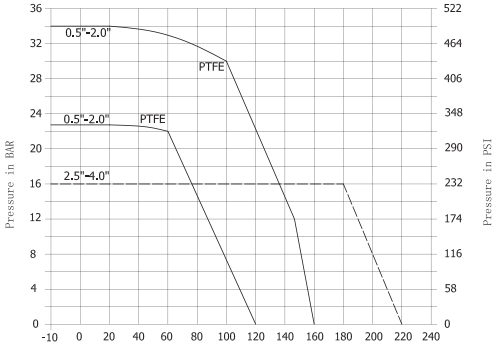


Standard design

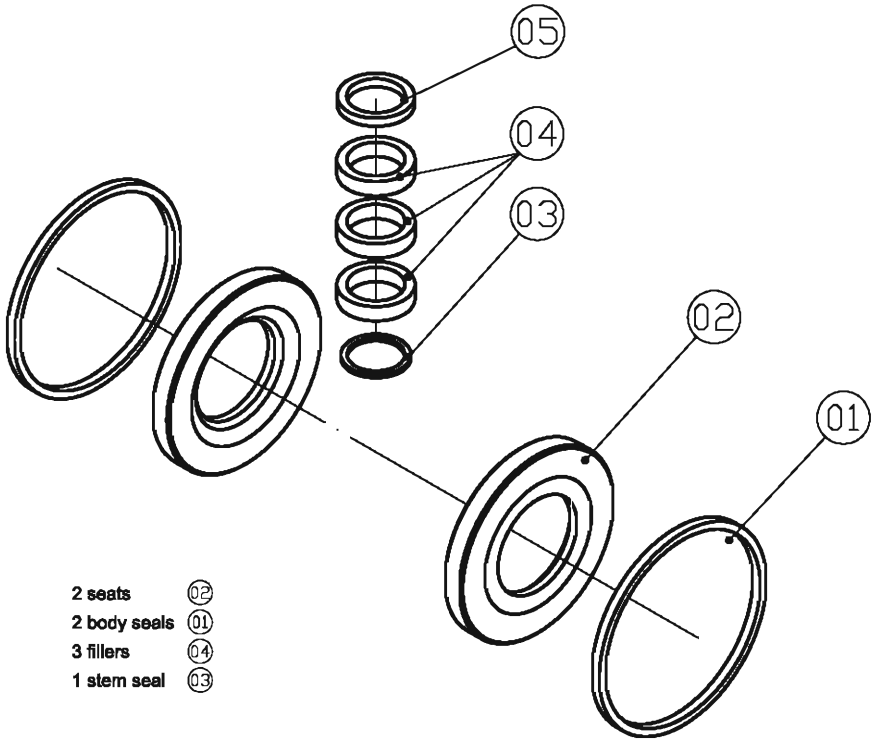
The O-ring design and disc spring at mandrel are for better seal and easy operation. High platform design without stent and connecting shaft can save the installation time and cost of pneumatic actuator. The valve body is made of ASTM 316L stainless steel, valve seat is made of PTFE material, in line 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

Standard

Encapsulated

PTFE/PTFE(TFM)

Minimum torque range of the actuator

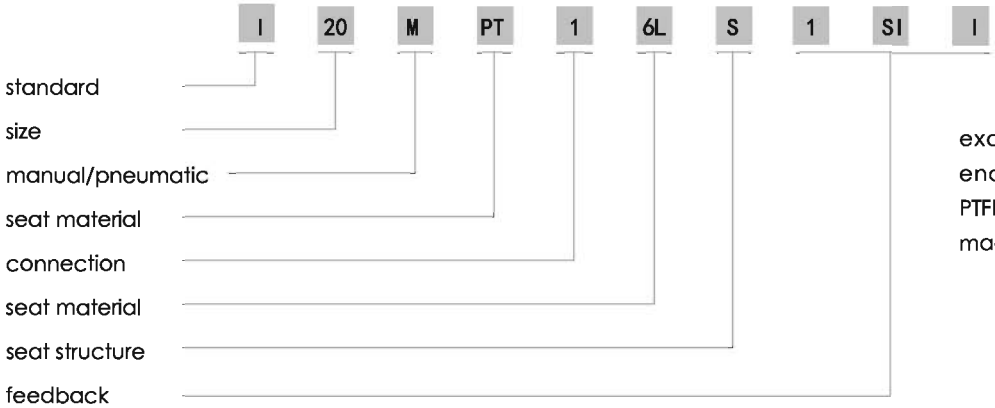
Pipe	Torque(kgf.m)
15.0	0.9
20.0	1.1
25.0	1.4
38.0	2.7
51.0	3.1
63.5	5.0
76.1	7.3
101.6	10.7

Optional Configurations

Connection standard	DIN
	ISO
	3A
	GB
Size of connector	0.5"
	0.75"
	1.0"
	1.5"
	2.0"
	2.5"
	3.0"
	4.0"
Actuator	Manual
	Pneumatic normally open
	Pneumatic normally closed
	Double action
Body form	straightway
	T-Type

Connection ends	Welded
	Clamp
	Welded / Clamp
Material of valve body	316L
	304L
valve	Encapsulated
	Standard type
Feedback form (Only applies to pneumatic)	
Electromagnetic valve	Have
	No
Sensor	No
	Single induction
	Double induction
Sensor form	Induction type
	Machine type

Code example

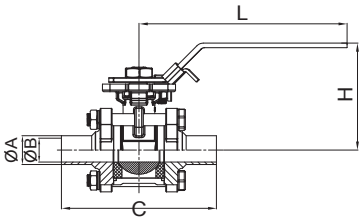


example: ISO, 0.75", welding end, manual ball valve, 316L, PTFE standard seat, with electron magnetic and sensor.

Manual ball valve (Welded)

KBV-MW-S standard type

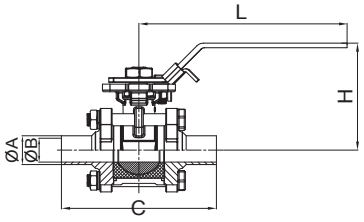
Code	SIZE	A	B	C	H	L
1507021-000050	15	12.7	9.4	88.6	65.5	138.2
1507021-000075	20	19.05	15.8	102.7	69.8	138.2
1207021-000025	25	25	22.6	114.3	78.7	138.2
1207021-000038	38	38	35.6	139.7	96.6	190.5
1207021-000051	51	51	48.6	158.1	106.7	190.5
1507021-000250	63	63.5	60.2	198.0	142	293.3
1507021-000300	76	76.2	72.9	227.5	148.5	293.3
1507021-000400	101	101.6	97.4	241.0	179.4	293.3



Manual ball valve (Welded)

KBV-MW-E encapsulated

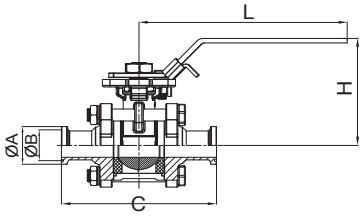
Code	SIZE	A	B	C	H	L
1507020-000050	15	12.7	9.4	88.6	65.5	138.2
1507020-000075	20	19.05	15.8	102.7	69.8	138.2
1207020-000025	25	25	22.6	114.3	78.7	138.2
1207020-000038	38	38	35.6	139.7	96.6	190.5
1207020-000051	51	51	48.6	158.1	106.7	190.5
1507020-000250	63	63.5	60.2	198.0	142	293.3
1507020-000300	76	76.2	72.9	227.5	148.5	293.3
1507020-000400	101	101.6	97.4	241.0	179.4	293.3



Manual ball valve (Clamp)

KBV-MW-S standard type

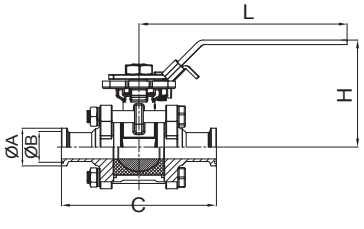
Code	SIZE	A	B	C	H	L
1507121-000050	15	25	9.4	88.6	65.5	138.2
1507121-000075	20	25	15.8	102.7	69.8	138.2
1207121-000025	25	50.4	22.6	114.3	78.7	138.2
1207121-000038	38	50.4	35.6	139.7	96.6	190.5
1207121-000051	51	63.9	48.6	158.1	106.7	190.5
1507121-000250	63	63.5	60.2	198.0	142	293.3
1507121-000300	76	76.2	72.9	227.5	148.5	293.3
1507121-000400	101	101.6	97.4	241.0	179.4	293.3



Manual ball valve (Clamp)

KBV-MW-E encapsulated

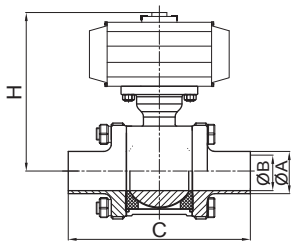
Code	SIZE	A	B	C	H	L
1507120-000050	15	25	9.4	88.6	65.5	138.2
1507120-000075	20	25	15.8	102.7	69.8	138.2
1207120-000025	25	50.4	22.6	114.3	78.7	138.2
1207120-000038	38	50.4	35.6	139.7	96.6	190.5
1207120-000051	51	63.9	48.6	158.1	106.7	190.5
1507120-000250	63	63.5	60.2	198.0	142	293.3
1507120-000300	76	76.2	72.9	227.5	148.5	293.3
1507120-000400	101	101.6	97.4	241.0	179.4	293.3



Pneumatic ball valve (Welded)

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

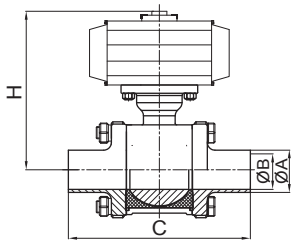
Code	SIZE	A	B	C	H
1507321-000050	15	12.7	9.4	88.6	131.5
1507321-000075	20	19.1	15.8	102.7	135.8
1207321-000025	25	25	22.6	114.3	144.7
1207321-000038	38	38	35.6	139.7	173
1207321-000051	51	51	48.6	158.1	195.2
1507321-000250	63	77.5	60.2	198.0	223.7
1507321-000300	76	91.0	72.9	227.5	238
1507321-000400	101	119.0	97.4	241.0	285.4



Pneumatic ball valve (Welded)

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

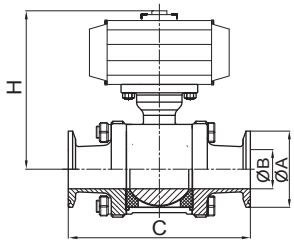
Code	SIZE	A	B	C	H
1507320-000050	15	12.7	9.4	88.6	131.5
1507320-000075	20	19.1	15.8	102.7	135.8
1207320-000025	25	25	22.6	114.3	144.7
1207320-000038	38	38	35.6	139.7	173
1207320-000051	51	51	48.6	158.1	195.2
1507320-000250	63	77.5	60.2	198.0	223.7
1507320-000300	76	91.0	72.9	227.5	238
1507320-000400	101	119.0	97.4	241.0	285.4



Pneumatic ball valve (Clamp)

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

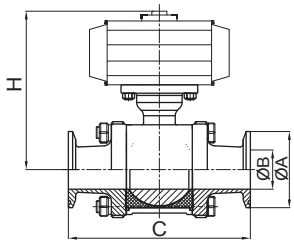
Code	SIZE	A	B	C	H
1507421-000050	15	25	9.4	88.6	131.5
1507421-000075	20	25	15.8	102.7	135.8
1207421-000025	25	50.4	22.6	114.3	144.7
1207421-000038	38	50.4	35.6	139.7	173
1207421-000051	51	63.9	48.6	158.1	195.2
1507421-000250	63	63.5	60.2	198.0	223.7
1507421-000300	76	76.2	72.9	227.5	238
1507421-000400	101	101.6	97.4	241.0	285.4



Pneumatic ball valve (Clamp)

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

Code	SIZE	A	B	C	H
1507420-000050	15	25	9.4	88.6	131.5
1507420-000075	20	25	15.8	102.7	135.8
1207420-000025	25	50.4	22.6	114.3	144.7
1207420-000038	38	50.4	35.6	139.7	173
1207420-000051	51	63.9	48.6	158.1	195.2
1507420-000250	63	63.5	60.2	198.0	223.7
1507420-000300	76	76.2	72.9	227.5	238
1507420-000400	101	101.6	97.4	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

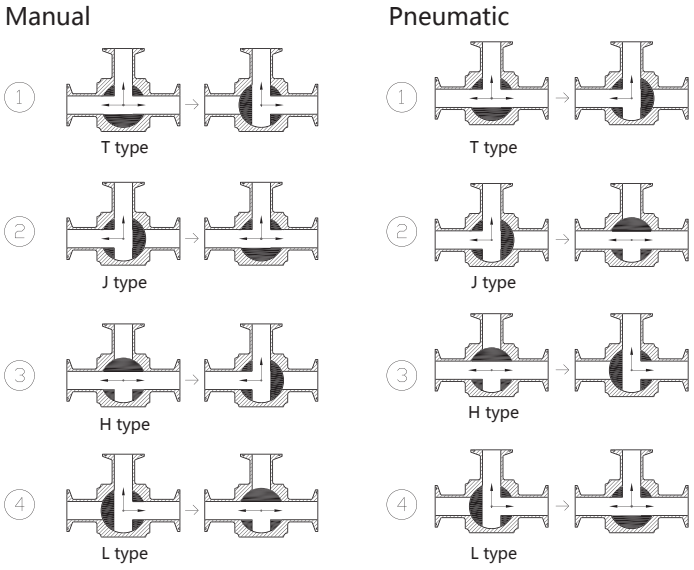
The valve adopts sanitary design, is widely used in food, pharmaceutical and other fields.
Tee can make three orthogonal pipes connect together and cut off the third channel, play a role in diverging and converging.
Four-sided valve seat sealing type, balanced force, and guarantee reliable sealing of channel.

Flow map:

Operating temperature	-10℃ ~ 120℃	PTFE	
	-10℃ ~ 160℃	TFM	
Control method	Manual control and pneumatic control		
Pneumatic control	Single action (SA)	Double 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 ≤ 0.8μm , Ra ≤ 0.375μm(SF4)		
Codes and standards	Conform to 3A, ISO, DIN 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

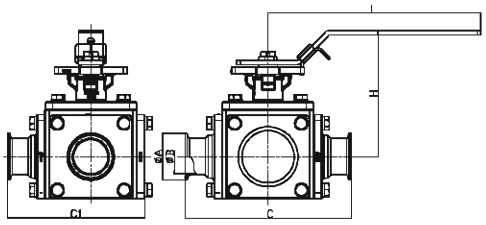


Clamp type manual ball valve

12171XX—XXXXXX (standard)

Code	Size	A	B	C	C1	L	H
000025	25	50.4	22.6	156.8	127.8	187	100.9
000038	38	50.4	35.6	188.8	146.8	190.5	114.2
000051	51	63.9	48.6	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.

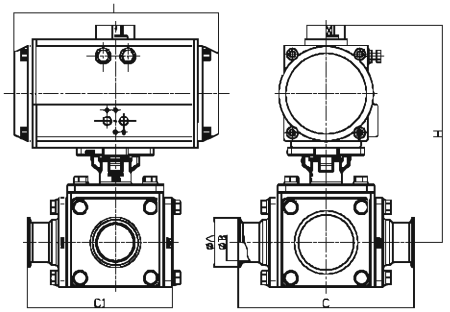


Clamp type pneumatic ball valve

12171XX—XXXXXX (standard)

Code	Size	A	B	C	C1	L	H
000025	25	50.4	22.6	156.8	127.8	204	233.7
000038	38	50.4	35.6	188.8	146.8	204	247.2
000051	51	63.9	48.6	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.



KAV Pneumatic Arc Valve

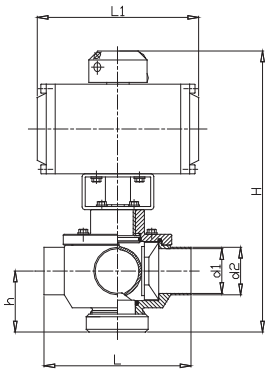
Kinglai arc valves have been designed according to hygienic design guidelines to meet the high demands of process engineering applications. Arc valves are particularly for viscous/pasty products and fluids containing solid particles on account of a totally clear passage, as well as easy and thorough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

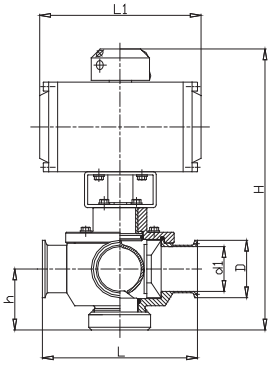
Technical Parameters

Product pressure	Pressure behind arc: 0 ~ 10 Bar; Pressure against arc: 0 ~ 3 Bar
Operating temperature	-10℃ ~+135℃
Size	DN50~DN80
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 ≤ 0.8 μm
Connection	Weld, Clamp
Control method	Pneumatic (90° /180° rotary cylinder)
Interface standard	3A、DIN、ISO



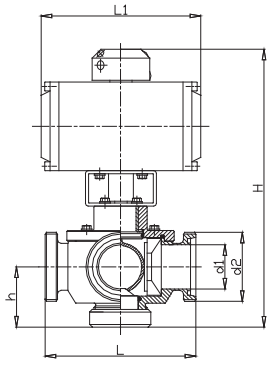
THA three-way welded pneumatic arc valve

No.	SIZE	d1	d2	H	h	L	L1
12500X1-000200	DN50	48.6	51	314.2	73	162	204
12500X1-000250	DN65	60.3	63.5	350.9	80.5	184	262
12500X1-000300	DN80	72.9	76	404.8	85.9	265.4	268



THA three-way clamp type pneumatic arc valve

No.	SIZE	d1	d2	H	h	L	L1
12501X1-000200	DN50	48.6	64	314.2	73	162	204
12501X1-000250	DN65	60.3	77.5	350.9	80.5	184	262
12501X1-000300	DN80	72.9	91	404.8	85.9	265.4	268

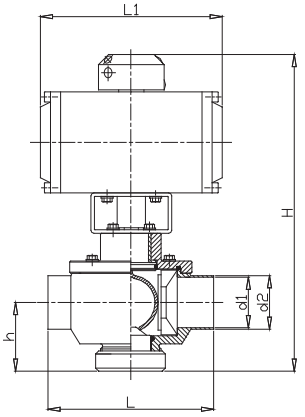


THA three-way thread type pneumatic arc valve

No.	SIZE	d1	d2	H	h	L	L1
12502X1-000200	DN50	48.6	70	314.2	73	159	204
12502X1-000250	DN65	60.3	85	350.9	80.5	163	262
12502X1-000300	DN80	72.9	110	404.8	85.9	201	268

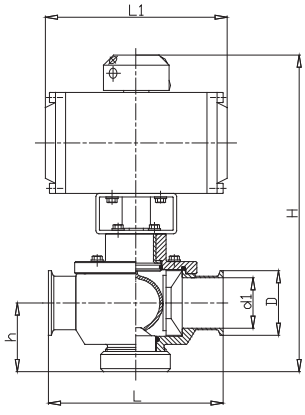
TWA two-way welded pneumatic arc valve

No.	SIZE	d1	d2	H	h	L	L1
1250301-000200	DN50	48.6	51	314.2	73	162	204
1250301-000250	DN65	60.3	63.5	350.9	80.5	184	262
1250301-000300	DN80	72.9	76	404.8	85.9	265.4	268



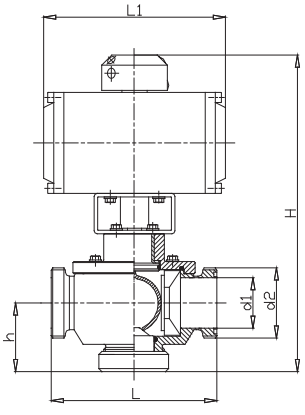
TWA two-way clamp type pneumatic arc valve

No.	SIZE	d1	d2	H	h	L	L1
1250401-000200	DN50	48.6	64	314.2	73	162	204
1250401-000250	DN65	60.3	77.5	350.9	80.5	184	262
1250401-000300	DN80	72.9	91	404.8	85.9	265.4	268



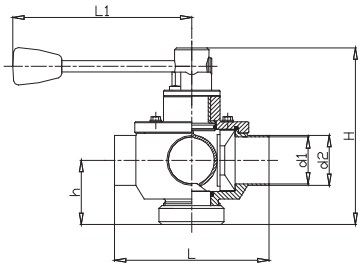
TWA two-way thread type pneumatic arc valve

No.	SIZE	d1	d2	H	h	L	L1
1250501-000200	DN50	48.6	70	314.2	73	159	204
1250501-000250	DN65	60.3	85	350.9	80.5	163	262
1250501-000300	DN80	72.9	110	404.8	85.9	201	268



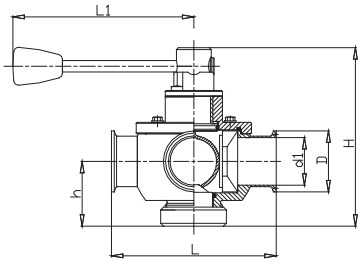
THA three-way welded manual arc valve

No.	SIZE	d1	d2	H	h	L	L1
12500X0-000200	DN50	48.6	51	190	73	162	190
12500X0-000250	DN65	60.3	63.5	215	80.5	184	190
12500X0-000300	DN80	72.9	76	230	85.9	265.4	190



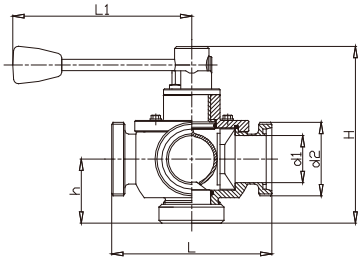
THA three-way clamp type manual arc valve

No.	SIZE	d1	d2	H	h	L	L1
12501X0-000200	DN50	48.6	64	190	73	162	190
12501X0-000250	DN65	60.3	77.5	215	80.5	184	190
12501X0-000300	DN80	72.9	91	230	85.9	265.4	190



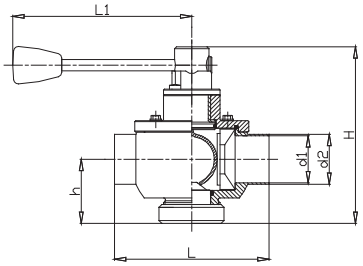
THA three-way thread type manual arc valve

No.	SIZE	d1	d2	H	h	L	L1
12502X0-000200	DN50	48.6	70	190	73	159	190
12502X0-000250	DN65	60.3	85	215	80.5	163	190
12502X0-000300	DN80	72.9	110	230	85.9	201	190



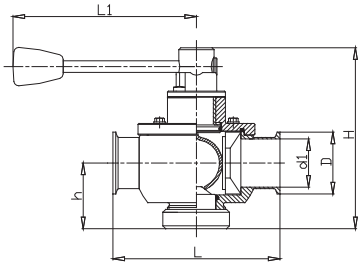
TWA two-way welded manual arc valve

No.	SIZE	d1	d2	H	h	L	L1
12503X0-000200	DN50	48.6	51	190	73	162	190
12503X0-000250	DN65	60.3	63.5	215	80.5	184	190
12503X0-000300	DN80	72.9	76	230	85.9	265.4	190



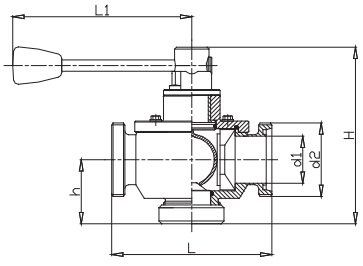
TWA two-way clamp type manual arc valve

No.	SIZE	d1	d2	H	h	L	L1
12504X0-000200	DN50	48.6	64	190	73	162	190
12504X0-000250	DN65	60.3	77.5	215	80.5	184	190
12504X0-000300	DN80	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
12505X0-000200	DN50	48.6	70	190	73	159	204
12505X0-000250	DN65	60.3	85	215	80.5	163	262
12505X0-000300	DN80	72.9	110	230	85.9	201	268



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.

Products

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

Seal Ring

Feature	EPDM	Viton	Silicone
Temperature Range	-48~135℃	-29~204℃	-62~232℃
Acid Resistance	Good-Excellent	Good	Good
Alkali 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

* Good-Excellent>Good>Poor-Good>Fair>Poor-Fair

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	0.5
1.5	0.7
2.0	1.1
2.5	2.2
3.0	2.6
4.0	3.9

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

Connection Standard	DIN	D
	ISO	I
	3A	A
	BPE	B

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

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

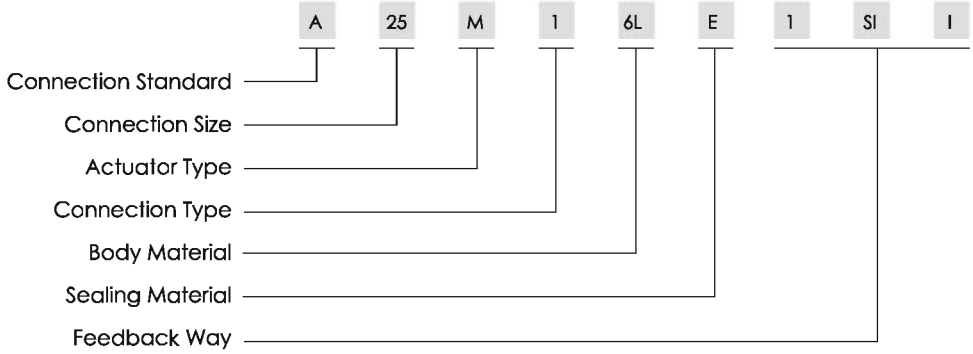
Body Material	316L	6L
	304L	4L

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

Sealing Material	EPDM	E
	Viton	V
	Silicone	S

Feedback Type(only for pneumatic)		
Magnetic Valve	Have	1
	None	0
Sensor	None	N
	Single Indicator	SI
	Double Indicator	DI
Sensor Type	Sensor Indicator	I
	Mechanical Type	M

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:

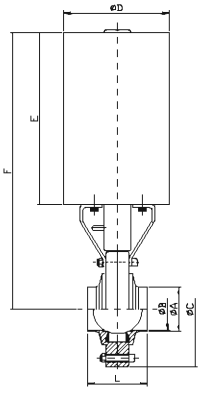
KBFV-P with pneumatically operated
KingLai Hygienic Butterfly Valves

Technical Data

Items	Details
Operating temperature	EPDM: -40~130°C VITON: -20~200°C SILICON: -60~230°C
Ambient temperature	-10~95°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	B	C	D	E
1201300-000025	25	50	25.0	22.6	67	83.5	133.5
1201300-000038	38	50	38.0	35.6	77	83.5	133.5
1201300-000051	51	50	51.0	48.6	90	83.5	133.5
1501300-000250	63	50	63.5	60.2	105	83.5	133.5
1501300-000300	76	50	76.2	72.9	115	83.5	133.5
1501300-000400	101.6	60	101.6	97.6	140	101.6	158.5

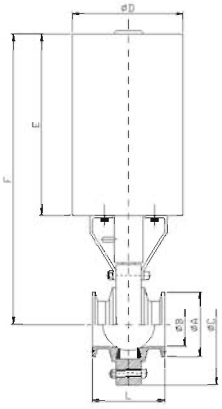


KBFV-PW:Welding ends,A/A

NO.	SIZE	L±0.5	A	B	C	D	E
1201301-000025	25	50	25.0	22.6	67	83.5	133.5
1201301-000038	38	50	38.0	35.6	77	83.5	133.5
1201301-000051	51	50	51.0	48.6	90	83.5	133.5
1501301-000100	63	50	63.5	60.2	105	83.5	133.5
1501301-000100	76	50	76.2	72.9	115	83.5	133.5
1501301-000100	101.6	60	101.6	97.6	140	101.6	158.5

KBFV-PC:Clamp/Clamp,NC

NO.	SIZE	L±0.5	A	B	C	D	E
1201400-000025	25	75.4	50.4	22.6	67	83.5	133.5
1201400-000038	38	75.4	50.4	35.6	77	83.5	133.5
1201400-000051	51	75.4	63.9	48.6	90	83.5	133.5
1501400-000250	63	75.4	77.5	60.2	105	83.5	133.5
1501400-000300	76	75.4	90.9	72.9	115	83.5	133.5
1501400-000400	101.6	91.6	118.9	97.6	140	101.6	158.5

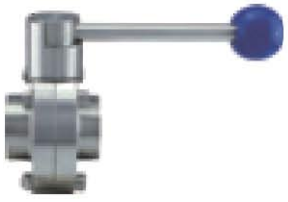


KBFV-PC:Clamp/Clamp,A/A

NO.	SIZE	L±0.5	A	B	C	D	E
1201401-000025	25	75.4	50.4	22.6	67	83.5	133.5
1201401-000038	38	75.4	50.4	35.6	77	83.5	133.5
1201401-000051	51	75.4	63.9	48.6	90	83.5	133.5
1501401-000250	63	75.4	77.5	60.2	105	83.5	133.5
1501401-000300	76	75.4	90.9	72.9	115	83.5	133.5
1501401-000400	101.6	91.6	118.9	97.6	140	101.6	158.5

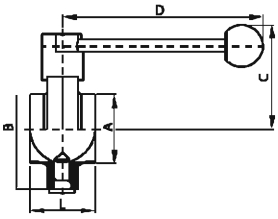
KBFV-M with manually operated
KingLai Hygienic Butterfly Valves

Working Pressure	0-10 bar
Working Temp.	-40~150℃
Actuator	manually operated
Seal Material	EPDM / Silicon / Viton
Body Material	304, 316L (EN1.4409 CF3M)
Port Size	DN25~DN100
Connection	welding ends, clamp/clamp, two male parts
SurfaceFinish	External surface finish Ra≤1.6μm, Internal surface finish Ra≤0.8μm
Connection Standard	DIN, ISO, ASME BPE, 3A



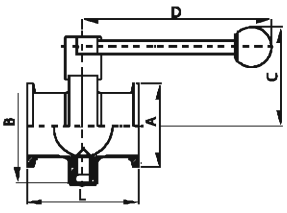
KBFV-MM:Multiposition handle,Welding ends

NO.	SIZE	L±0.5	A	B	C	D	E
1201001-000025	25	50	25.0	22.6	67	72	134
1201001-000038	38	50	38.0	35.6	77	78	134
1201001-000051	51	50	51.0	48.6	90	83	134
1501001-000250	63	50	63.5	60.2	105	92	134
1501001-000300	76	50	76.2	72.9	115	97	134
1501001-000400	101.6	60	101.6	97.6	140	109	134
1401008-000125	125	80	129	125	181	140	319
1401008-000200	200	100	204	200	276	201	319



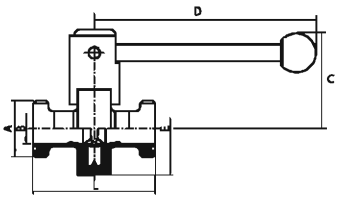
KBFV-MM:Multiposition handle,CLAMP/CLAMP

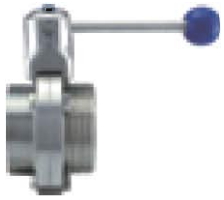
NO.	SIZE	L±0.5	A	B	C	D	E
1201101-000025	25	75.4	50.5	22.6	67	72	134
1201101-000038	38	75.4	50.5	35.6	77	78	134
1201101-000051	51	75.4	64.0	48.6	90	83	134
1501101-000250	63	75.4	77.5	60.2	105	92	134
1501101-000300	76	75.4	91	72.9	115	97	134



KBFV-MM:Multiposition handle,Two male parts

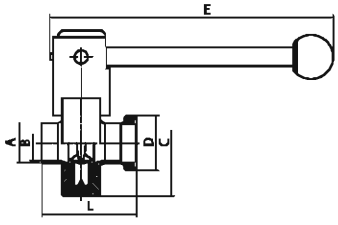
NO.	SIZE	L±0.5	RD	B	C	D	E
1201201-000025	25	80	RD40X1/6	22.6	67	72	134
1201201-000038	38	90	RD60X1/6	35.6	77	78	134
1201201-000051	51	90	RD70X1/6	48.6	90	83	134
1201201-000063	63	98	RD85X1/6	60.2	105	92	134
1201201-000076	76	98	RD98X1/6	72.9	115	97	134
1201201-000101	101.6	130	RD132X1/6	97.6	140	109	134





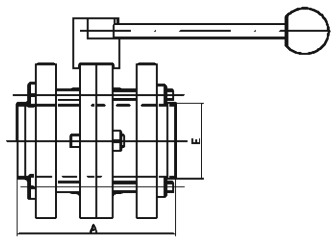
KBFV-MM:Multiposition handle,Male part/Welding end

NO.	SIZE	L±0.5	RD	A	B	C	D	E
1201502-000025	25	65	RD40X1/6	25.0	22.6	67	72	134
1201502-000038	38	70	RD60X1/6	38.0	35.6	77	78	134
1201502-000051	51	70	RD70X1/6	51.0	48.6	90	83	134
1201502-000063	63	74	RD85X1/6	63.5	60.2	105	92	134
1201502-000076	76	74	RD98X1/6	76.2	72.9	115	97	134
1201502-000101	101.6	95	RD132X1/6	101.6	97.6	140	109	134



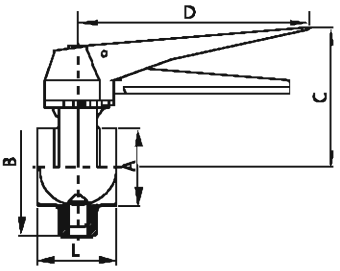
KBFV-MF:Multiposition handle,Three panel welding ends

NO.	SIZE	L±0.5	A	B	D	E
1201011-000025	25	100	25.0	22.6	77	134
1201011-000038	38	100	38.0	35.6	82	134
1201011-000051	51	100	51.0	48.6	88	134
1501011-000250	2.5"	100	63.5	60.2	98	134
1501011-000300	3.0"	100	76.2	72.9	108	134
1501011-000400	4.0"	100	101.6	97.6	115	134



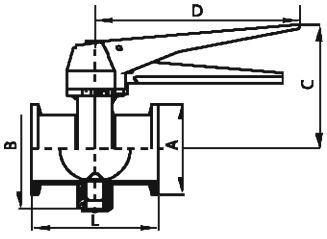
KBFV-ML:Lockable multiposition handle,Welding ends

NO.	SIZE	L±0.5	A	B	C	D	E
1201000-000025	25	50	25.0	22.6	67	73	150
1201000-000038	38	50	38.0	35.6	77	79	150
1201000-000051	51	50	51.0	48.6	90	85	150
1501000-000250	63	50	63.5	60.2	105	93	150
1501000-000300	76	50	76.2	72.9	115	98	150
1501000-000400	101.6	60	101.6	97.6	140	110	150
1401000-000125	125	80	129	125	181	182	351
1401000-000200	200	100	204	200	276	230	351



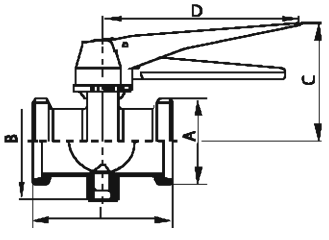
KBFV-ML:Lockable multiposition handle,Clamp/Clamp

NO.	SIZE	L±0.5	A	B	C	D	E
1201100-000025	25	75.4	50.5	22.6	67	73	150
1201100-000038	38	75.4	50.5	35.6	77	79	150
1201100-000051	51	75.4	64.0	48.6	90	85	150
1501100-000250	63	75.4	77.5	60.2	105	93	150
1501100-000300	76	75.4	91	72.9	115	98	150
1501100-000400	101.6	91.6	119	97.6	140	110	150



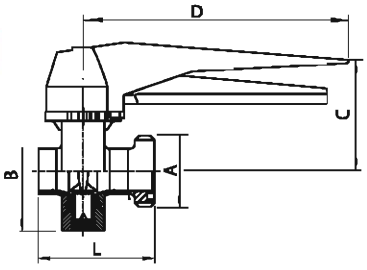
KBFV-ML:Lockable multiposition handle,Two male parts

NO.	SIZE	L±0.5	RD	B	C	D	E
1201200-000025	25	80	RD40X1/6	22.6	67	73	150
1201200-000038	38	90	RD60X1/6	35.6	77	79	150
1201200-000051	51	90	RD70X1/6	48.6	90	85	150
1201200-000063	63	98	RD85X1/6	60.2	105	93	150
1201200-000076	76	98	RD98X1/6	72.9	115	98	150
1201200-000101	101.6	130	RD132X1/6	97.6	140	110	150



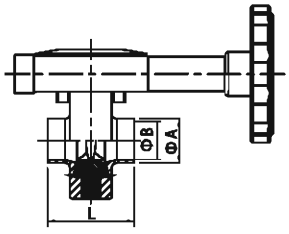
KBFV-ML:Lockable multiposition handle,Male part/Welding end

NO.	SIZE	L±0.5	RD	A	B	C	D	E
1201501-000025	25	65	RD40X1/6	25.0	22.6	67	73	150
1201501-000038	38	70	RD60X1/6	38.0	35.6	77	79	150
1201501-000051	51	70	RD70X1/6	51.0	48.6	90	85	150
1201501-000063	63	74	RD85X1/6	63.5	60.2	105	93	150
1201501-000076	76	74	RD98X1/6	76.2	72.9	115	98	150
1201501-000101	101.6	95	RD132X1/6	101.6	97.6	140	110	150



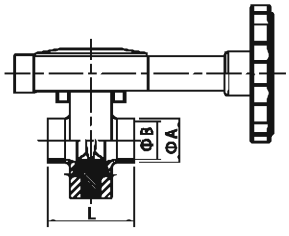
KBFV-MR: Regulating handle,Welding ends

NO.	SIZE	L±0.5	A	B	D±4	E
1201001-000025	25	50	25.0	22.6	86.87	149.5
1201001-000038	38	50	38.0	35.6	96.87	149.5
1201001-000051	51	50	51.0	48.6	109.5	149.5
1501155-000250	63	50	63.5	60.2	124.5	149.5
1501155-000300	76	50	76.2	72.9	134.5	149.5
1501155-000400	101.6	60	101.6	97.6	159.5	149.5



KBFV-MR: Regulating handle,Clamp/Clamp

NO.	SIZE	L±0.5	A	B	D±4	E
1201101-000025	25	75.4	50.5	22.6	86.87	149.5
1201101-000038	38	75.4	50.5	35.6	96.87	149.5
1201101-000051	51	75.4	64.0	48.6	109.5	149.5
1501155-000250	63	75.4	77.5	60.2	124.5	149.5
1501155-000300	76	75.4	91	72.9	134.5	149.5
1501155-000400	101.6	91.6	119	97.6	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 andsimple 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.

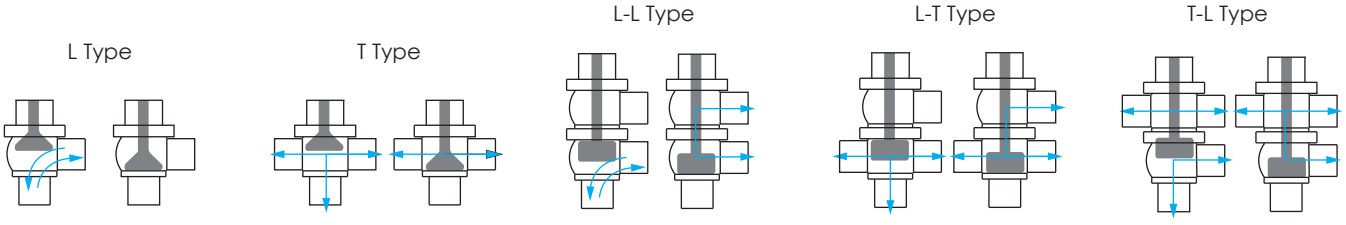
Feature(Pneumatically operated)

· SS316L 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.
· 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



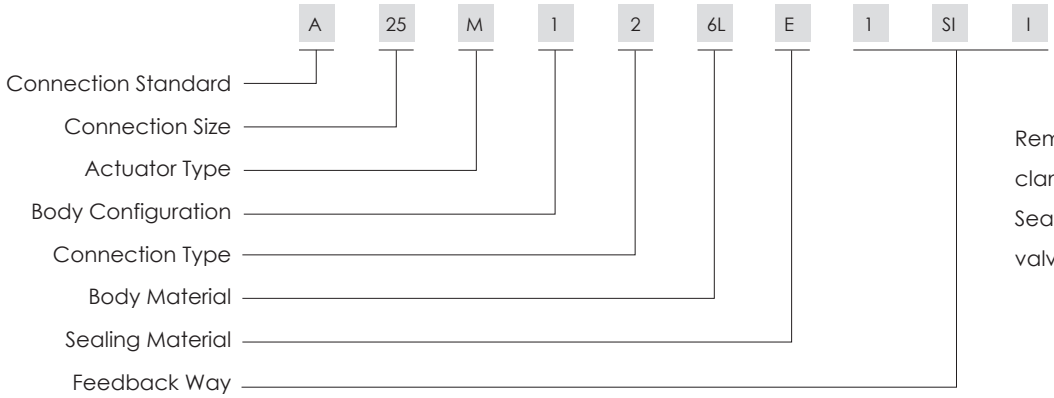
Selection table

Connection Standard	DIN	D
	ISO	I
	3A	A
Connection Size	1.0"	25
	1.5"	40
	2.0"	50
	2.5"	65
	3.0"	80
Actuator Type	Manual	M
	Normally Open	NO
	Normally Closed	NC
	Air/Air	AA
Body Configuration	L-L Type	1
	T-L Type	2
	T-T Type	3
	L Type	4
	T Type	5
	L-T Type	6

Connection Type	welding ends	1
	clamp/clamp	2
Body Material	316L	6L
	304L	4L
Sealing Material	EPTM+PTFE	EP
	Silicone+PTFE	SP
	Viton+PTFE	VP

Feedback Type(only for pneumatic)		
Magnetic Valve	Have	1
	None	0
Sensor	None	N
	Single Indicator	SI
	Double Indicator	DI
Sensor Type	Sensor Indicator	I
	Mechanical Type	M

Option samples:



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

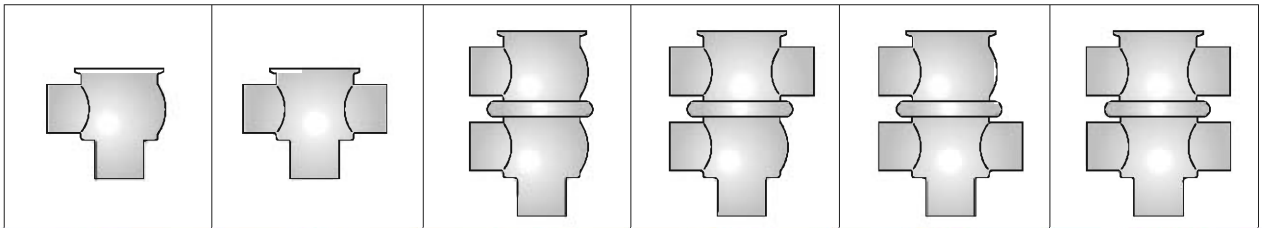
Remark: 1, Request about GMP & DMP valve, Please contact with Kinglai: 2, if the valve with feedback device used in dangerous area, please inform the anti-explosion lever of electronic components:

KPV-P with pneumatically operated

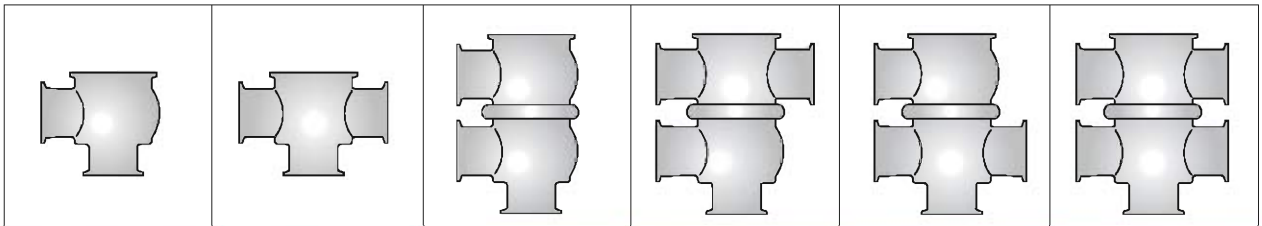
KingLai Hygienic Piston Valves

Working Pressure	0-10 bar
Working Temp.	-40~140℃（Standard）, -40~120℃（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

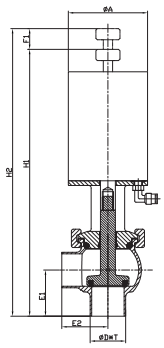
Valve Body compositions



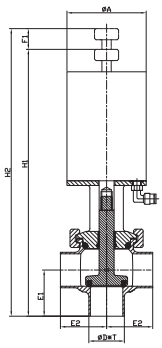
L 200	T 300	L-L 210	T-L 220	L-T 310	T-T 320
ISO:1226411	ISO:1226511	ISO:1226111	ISO:1226211	ISO:1226611	ISO:1226311
ISO:1226412	ISO:1226512	ISO:1226112	ISO:1226212	ISO:1226612	ISO:1226312



L 2001	T 3002	L-L 2102	T-L 2203	L-T 3103	T-T 3204
ISO:1226431	ISO:1226531	ISO:1226311	ISO:1226231	ISO:1226631	ISO:1226331
ISO:1226412	ISO:1226512	ISO:1226112	ISO:1226212	ISO:1226612	ISO:1226312



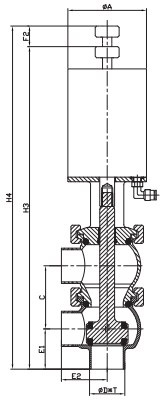
L Type Weld Check Valve



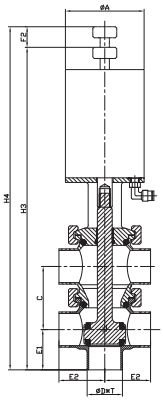
T Type Weld Check Valve

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

NO	SIZE	ODXT	E1	E2	C	H3	H4	F2	⌀A
XXXXXXX-000025	25	25x1.2	49.5	49.5	56	340	352	12	85
XXXXXXX-000038	38	38x1.2	49.5	49.5	67	356	375	19	85
XXXXXXX-000051	51	51x1.2	61.0	61.0	84	397	421.5	24.5	104
XXXXXXX-000063	63	63.5x1.6	81.0	81.0	107	505	525.5	20.5	154
XXXXXXX-000076	76	76.1x1.6	86.0	86.0	121	527	553	26	154



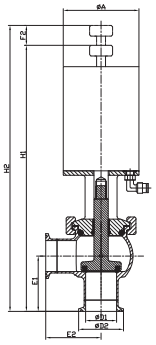
L-L Type Weld Regulating Seat Valve



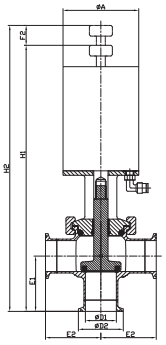
T-T Type Weld Divert Seat Valve

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

NO	SIZE	D1	D2	E1	E2	H1	H2	F2	⌀A
XXXXXXX-000025	25	25x1.2	22.6	62.2	62.2	297.7	313.7	16	85
XXXXXXX-000038	38	38x1.2	35.6	62.2	62.2	301.7	328.7	27	85
XXXXXXX-000051	51	51x1.2	48.6	73.7	73.7	323.7	354.7	31	104
XXXXXXX-000063	63	63.5x1.6	60.2	93.7	93.7	409.7	448.7	39	154
XXXXXXX-000076	76	76.1x1.6	72.9	98.7	98.7	418.7	460.7	42	154



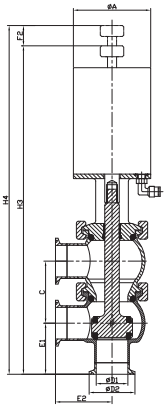
L Type Clamp Check Valve



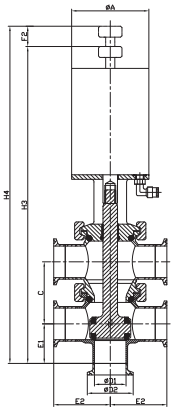
T Type Clamp Check Valve

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

NO	SIZE	D1	D2	E1	E2	C	H3	H4	F2	⌀A
XXXXXXX-000025	25	25x1.2	22.6	62.2	62.2	56	352.7	364.7	12	85
XXXXXXX-000038	38	38x1.2	35.6	62.2	62.2	67	368.7	387.7	19	85
XXXXXXX-000051	51	51x1.2	48.6	73.7	73.7	84	409.7	434.2	24.5	104
XXXXXXX-000063	63	63.5x1.6	60.2	93.7	93.7	107	517.7	538.2	20.5	154
XXXXXXX-000076	76	76.1x1.6	72.9	98.7	98.7	121	539.7	565.7	26	154



L-L Type Clamp Regulating Valve



T-T Type Clamp Change Over Valv

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

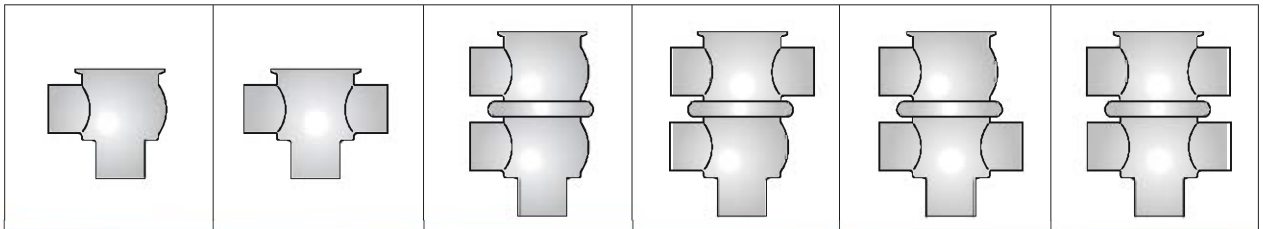
NO	SIZE	D1	D2	E1	E2	C	H3	H4	F2	⌀A
XXXXXXX-000025	25	25x1.2	22.6	62.2	62.2	56	352.7	364.7	12	85
XXXXXXX-000038	38	38x1.2	35.6	62.2	62.2	67	368.7	387.7	19	85
XXXXXXX-000051	51	51x1.2	48.6	73.7	73.7	84	409.7	434.2	24.5	104
XXXXXXX-000063	63	63.5x1.6	60.2	93.7	93.7	107	517.7	538.2	20.5	154
XXXXXXX-000076	76	76.1x1.6	72.9	98.7	98.7	121	539.7	565.7	26	154

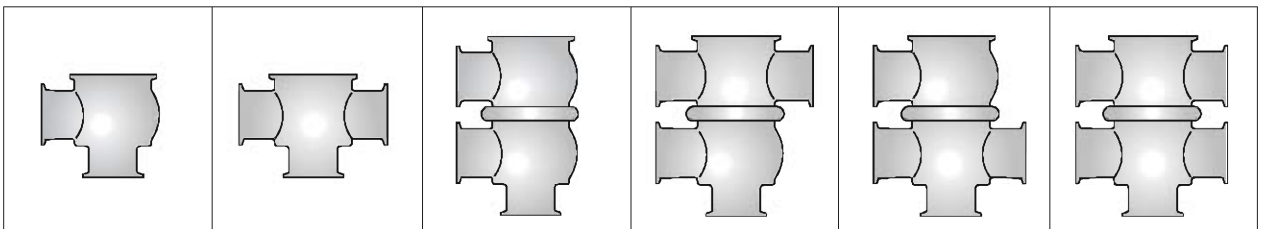
KPV-M with manually operated

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
Body Material	316L（EN1.4409 CF3M）, 304（EN1.4308）
Port Size	1.0"~ 3.0"
Connection	Welding ends, Clamp/Clamp
SurfaceFinish	outside surface sanding , Internally Ra≤0.8μm
Connection Standard	DIN, ISO, 3A, JIS

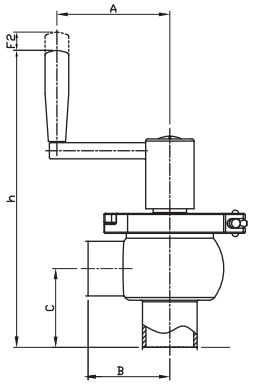
Valve Body compositions

					
L 200	T 300	L-L 210	T-L 220	L-T 310	T-T 320
ISO:1226413	ISO:1226513	ISO:1226113	ISO:1226213	ISO:1226613	ISO:1226313
ISO:1226423	ISO:1226523	ISO:1226123	ISO:1226223	ISO:1226623	ISO:1226323

					
L 2001	T 3002	L-L 2102	T-L 2203	L-T 3103	T-T 3204
ISO:1226433	ISO:1226533	ISO:1226133	ISO:1226233	ISO:1226633	ISO:1226333
ISO:1226443	ISO:1226543	ISO:1226143	ISO:1226243	ISO:1226643	ISO:1226343

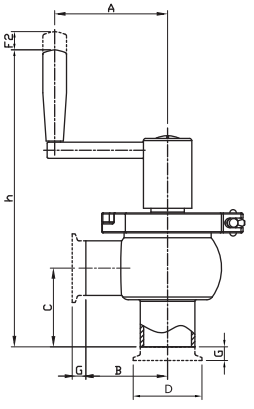
KPV-MW:L-type Manual Divert Seat Valve with welding ends

No.	SIZE	ODxT	A	B	C	F	H
XXXXXXX-000038	38	38x1.2	105	49.5	49.5	17	153
XXXXXXX-000051	51	51x1.2	105	61	61	24	166
XXXXXXX-000063	63	63.5x1.6	105	81	81	24	218
XXXXXXX-000076	76	76.1x1.6	105	86	86	27	214



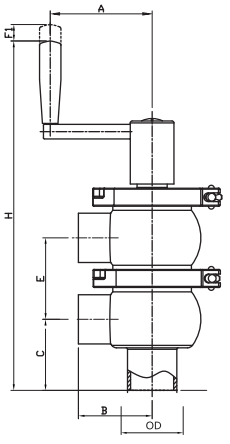
KPV-MC:L-type Manual Divert Seat Valve with clamp ends

No.	SIZE	A	B	C	D	F2	G	H
XXXXXXX-000038	38	105	49.5	49.5	50.5	22	12.7	153
XXXXXXX-000051	51	105	61	61	64	30	12.7	166
XXXXXXX-000063	63	105	81	81	77.5	30	12.7	218
XXXXXXX-000076	76	105	86	86	91	30	12.7	214



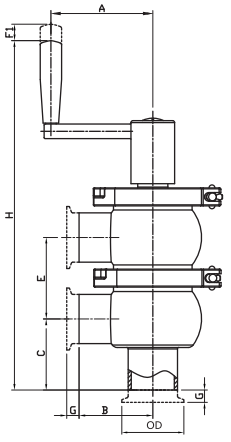
KPV-MW:L/L Type Manual Divert Seat Valve with welding ends

No.	SIZE	ODxT	A	B	C	E	F	G	H
XXXXXXX-000038	38	38x1.2	105	49.5	49.5	67	17	12.7	221
XXXXXXX-000051	51	51x1.2	105	61	61	84	24	12.7	252
XXXXXXX-000063	63	63.5x1.6	105	81	81	107	24	12.7	328
XXXXXXX-000076	76	76.1x1.6	105	86	86	121	27	12.7	338



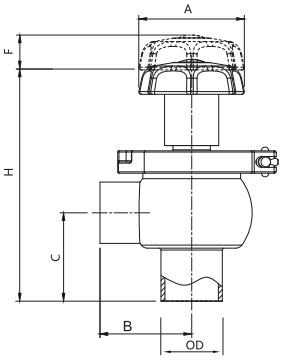
KPV-MC:L/L Type Manual Divert Seat Valve with clamp ends

No.	SIZE	A	B	C	OD	E	F1	G	H
XXXXXXX-000038	38	105	49.5	49.5	50.5	67	17	12.7	221
XXXXXXX-000051	51	105	61	61	64	84	24	12.7	252
XXXXXXX-000063	63	105	81	81	77.5	107	24	12.7	328
XXXXXXX-000076	76	105	86	86	91	121	27	12.7	338



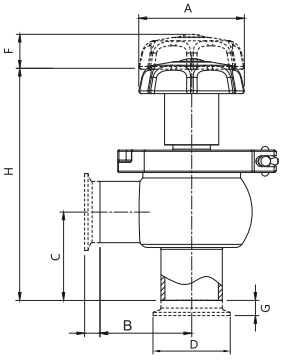
KPV-MW:L-type Manual regulating Seat Valve with welding ends

No.	SIZE	A	B	C	OD	F	G	H
XXXXXXX-000038	38	45	57.8	43.5	38	22	12.7	153
XXXXXXX-000051	51	45	66	43.2	51	30	12.7	166
XXXXXXX-000063	63	45	85	83.7	63.5	30	12.7	218
XXXXXXX-000076	76	45	90	74.3	76.1	30	12.7	214



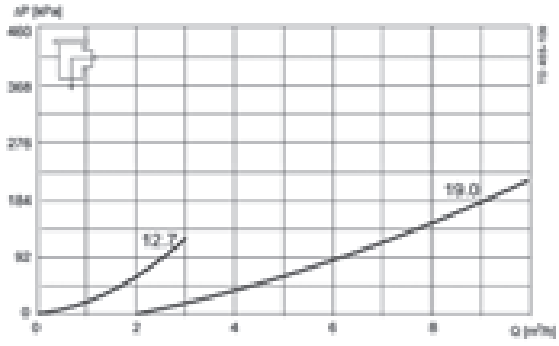
KPV-MC:L-type Manual regulating Seat Valve with clamp ends

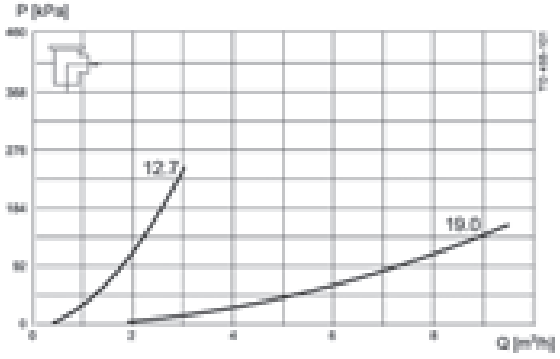
No.	SIZE	A	B	C	D	F	G	H
XXXXXXX-000038	38	45	57.8	43.5	50.5	22	12.7	153
XXXXXXX-000051	51	45	66	43.2	64	30	12.7	166
XXXXXXX-000063	63	45	85	83.7	77.5	30	12.7	218
XXXXXXX-000076	76	45	90	74.3	91	30	12.7	214

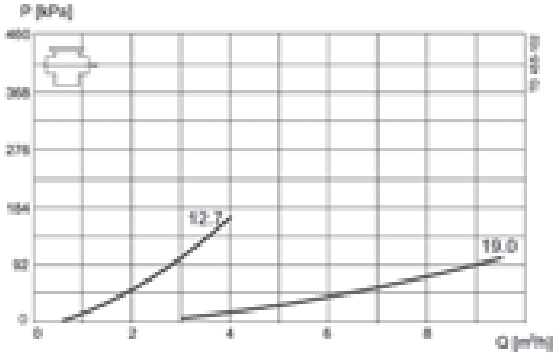


Pressure/Flow

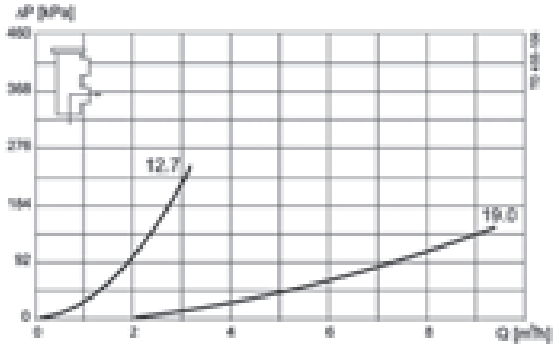
shut-off valve

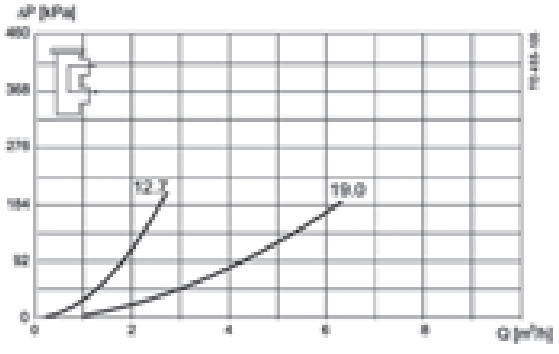


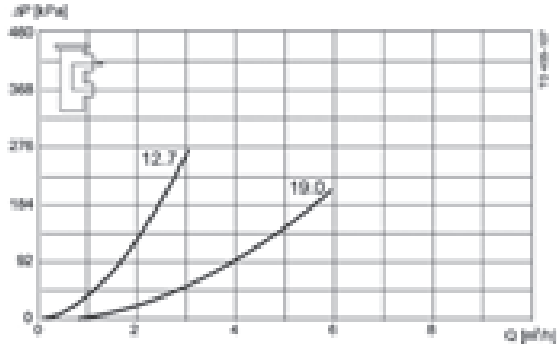


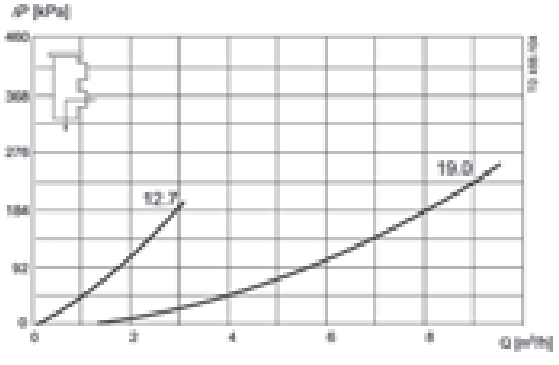


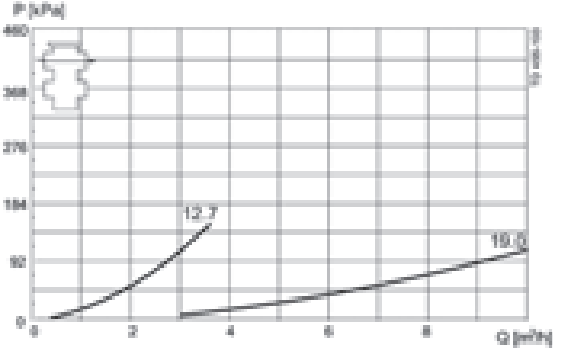
change-over valve











KCV Hygienic Check Valves

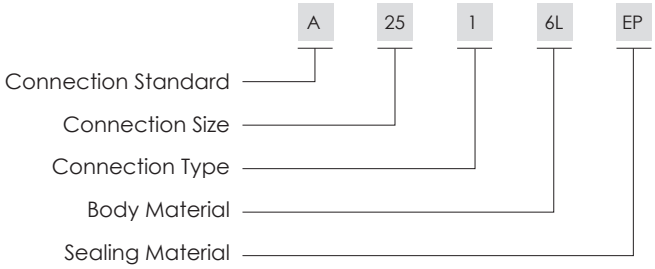
KCV is designed to guarantee flow not go back in piping system. Self-active check valve MUST be installed in vertical direction, only allows flow down to upper side. There is no spring involved; it relies on gravity to seal the valve. The valve body is forged, it's hygienic and easy to clean, no dead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

Selection table

Connection Standard	DIN	D
	ISO	I
	3A	A
Connection Size	1.0"	25
	1.5"	40
	2.0"	50
	2.5"	65
	3.0"	80

Connection Type	welding ends	1
	clamp/clamp	2
Body Material	316L	6L
	304L	4L
Sealing Material	EPDM	E
	Silicone	S
	Viton	V

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:

CK check valve

Kinglai Hygienic Check Valves

Product Introduction

KL Group CK series check valves prevent backflow of media in the system. The CK1 type check valve is divided into two parts, the upper and lower valve body, which are assembled by a nut and sealed with a special sealing ring. The CK2 type is divided into two parts, the upper and lower valve body, which are assembled by a clamp and sealed with a special sealing ring. The CK3 type is divided into two parts, the upper and lower valve body, which are assembled by flange bolts and sealed with an O-ring. The spring force of the CK1 and CK2 check valves acts on the spool, closing the valve until the pressure at the inlet exceeds the spring force. If backflow occurs, the spring force and pressure at the outlet will keep the valve closed. The CK3 check valve should be installed on a vertical pipe. Since there is no spring force on the spool, the opening pressure is very small.

Application

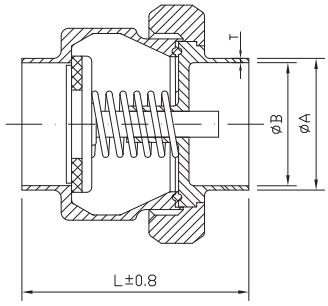
Widely used in medicine, food and personal care industries

Technical parameters

Max. product pressure：10Bar
Max. temperature：140℃
Sealing material：EPDM/VITON/Silicon
Steel parts：304/316L
Surface treatment：Inner surface Ra ≤ 0.8μm，Outer surface Ra ≤ 3.2μm
Connection：Weld, Clamp, Thread
Interface standard：ISO/DIN/ASME BPE/3A/BS/GB

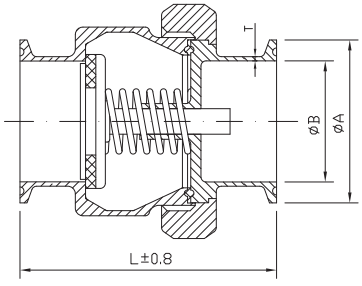
CK1 Welded

NO.	Size	L (Butt Welding End)	A	B	T
1202000-000025	ISO25	69.4	25	22.6	1.2
1202000-000038	ISO38	68.7	38	35.6	1.2
1202000-000051	ISO51	75.7	51	48.6	1.2
1202000-000063	ISO63	99.8	63.5	60.3	1.6
1202000-000076	ISO76	101.1	76.1	72.9	1.6
1202000-000101	ISO101	126.8	101.6	97.6	2



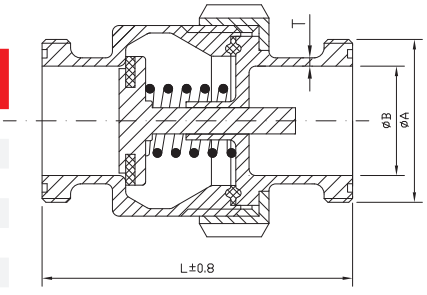
CK1 Clamp

NO.	Size	L2 (Clamp End)	A	B	T
1202100-000025	ISO25	94.8	50.5	22.6	1.2
1202100-000038	ISO38	94.1	50.5	35.6	1.2
1202100-000051	ISO51	101.1	64	48.6	1.2
1202100-000063	ISO63	125.2	77.5	60.3	1.6
1202100-000076	ISO76	126.5	91	72.9	1.6
1202100-000101	ISO101	158.4	119	97.6	2



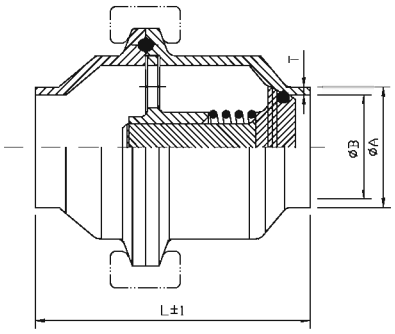
CK1 Thread

NO.	Size	L1 (Threaded End)	A	B	T
1202200-000025	ISO25	99.4	40	22.6	1.2
1202200-000038	ISO38	108.7	60	35.6	1.2
1202200-000051	ISO51	115.7	70	48.6	1.2
1202200-000063	ISO63	147.8	85	60.3	1.6
1202200-000076	ISO76	149.1	98	72.9	1.6
1202200-000101	ISO101	176.8	132	97.6	2



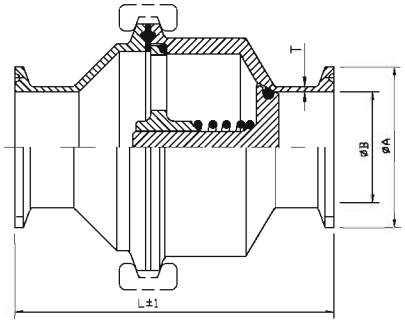
CK2 Welded

NO.	Size	L (Butt Welding End)	A	B	T
1202010-000025	ISO25	85.4	25	22.6	1.2
1202010-000038	ISO38	100.4	38	35.6	1.2
1202010-000051	ISO51	100.4	51	48.6	1.2
1202010-000063	ISO63	100.4	63.5	60.3	1.6
1202010-000076	ISO76	100.4	76.1	72.9	1.6
1202010-000101	ISO101	150.6	101.6	97.6	2



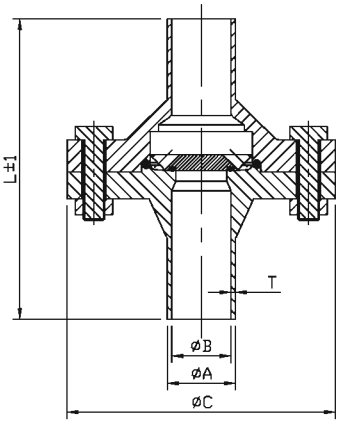
CK2 Clamp

NO.	Size	L1 (Clamp End)	A	B	T
1202110-000025	ISO25	85.4	50.5	22.6	1.2
1202110-000038	ISO38	100.4	50.5	35.6	1.2
1202110-000051	ISO51	100.4	64	48.6	1.2
1202110-000063	ISO63	100.4	77.5	60.3	1.6
1202110-000076	ISO76	100.4	91	72.9	1.6
1202110-000101	ISO101	150.6	119	97.6	2



CK3 Welded

NO.	Size	L (Butt Welding End)	A	B	C	T
1202008-000025	ISO25	112	25	22.6	100	1.2
1202008-000038	ISO38	115	38	35.6	110	1.2
1202008-000051	ISO51	115	51	48.6	110	1.2



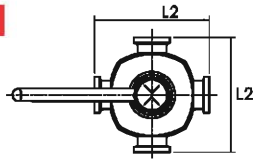
Four-Way Valves

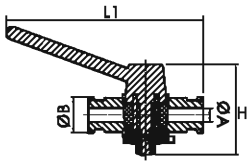
KingLai Hygienic Valves

Working Pressure	0-10 bar
Working Temp.	-10℃~150℃
Seal Material	PTFE
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

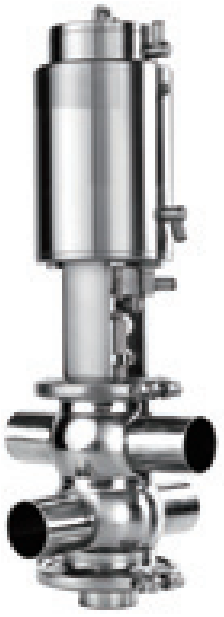
Four-Way Valves

No.	A	B	H	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
	OEM/ODM	25	63	137.4	80





KMP Sanitary Mix Proof Valves



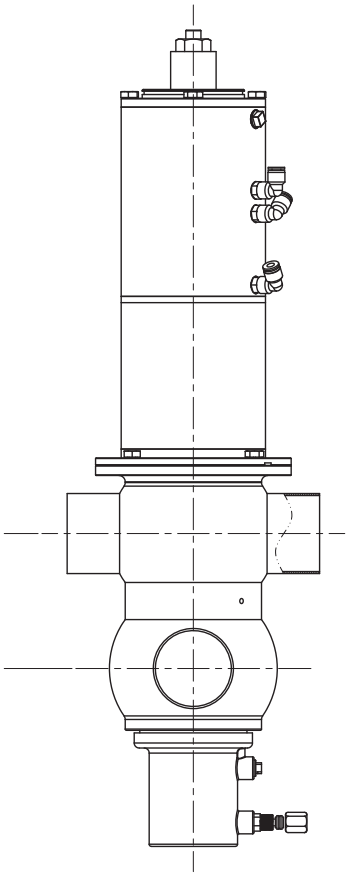
Boasting stable performance and sanitary design, the sanitary mix proof valves are ideal for occasions that require full isolation of products and CIP solution. They are widely used in food processing industry, beverage production, pharmaceuticals and fine chemical engineering industry.

Working Principle

The sanitary mix proof valves are specially designed for sanitary uses. The lifting of valve seat and separate jet cleaning of leakage cavity ensure that all parts in contact with the products can be completely and reliably cleaned. During cleaning by CIP pipelines, when the upper and lower valve seats are lifted up at the same time, the leakage cavity can be fully cleaned without separate jet cleaning.

Features and Advantages

Two independently-working valve spindles and high-capacity leakage cavity for perfectly secure liquid isolation;
Pressure balance design of valves for absolute operational safety even under water hammer; Ball-type valve body design for perfect and fast CIP cleaning; Complete cleaning of valve spindle, valve seat seal and leakage cavity; Accuracy of electrolytic polishing for internal surface to Ra0.8μm; Compact structural design, light weight and easy maintenance; No externally-mounted movable part for preventing unnecessary personal injuries.



Technical Data

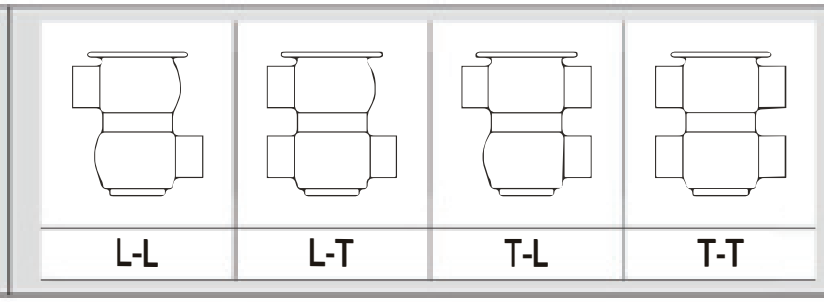
Ambient temperature	10°C~140°C
Working pressure	0~10 bar
Starting device	Min. air pressure for opening 4bar
Material of valve plug	EPDM/PTFE、Silicon/PTFE、HNBR/PTFE
Product-contacting components	316(EN1.4409 CF3M)
Other steel parts	304(EN1.4308)
Connection type	Welded type
Connection diameter	2.5"
Surface treatment	Internal surface Ra0.8um Outside surface Ra1.6um
Specifications and standards	DIN and ISO standards and 3A certification

Selection Code

A	B	C	D	E	F
14	46	101	SI	000	040

A Standard	B Productcode	C=Body typeIDSeal	D Seal material	E Default	F (Size)		
					DIN	3A	ISO/GB
14=DIN	46=Mix proof valve	101=L-L	EP=EPDM	N/A	040=DN40	038=1.5"	038=38
15=3A		201=L-T	SI=SILICON		050=DN50	051=2"	051=51
17=GB		301=T-L	NB=NBR		065=DN65	063=2.5"	063=63.5
		401=T-T	VI=VITON		080=DN80	076=3"	076=76

Body type



DIN

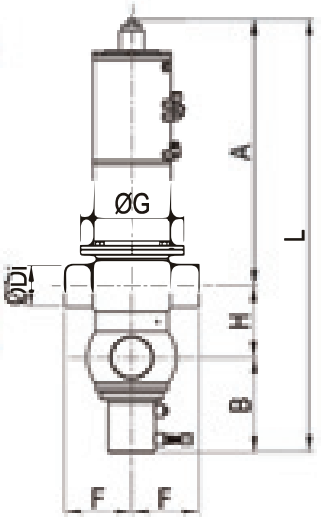
Size	A	B	Di	F	H	L	G
DN40	385	121	38	100	68	570	163
DN50	390	130	50	100	84	603	163
DN65	399	141	66	100	107	647	163
DN80	407	149	81	120	121	677	163

3A

Size	A	B	Di	F	H	L	G
1.5"	385	121	34.8	100	68	570	163
2"	390	130	47.5	100	84	603	163
2.5"	399	141	60.2	100	107	647	163
3"	407	149	72.9	120	121	677	188

ISO/GB

Size	A	B	Di	F	H	L	G
38	385	121	35.1	100	68	570	163
51	390	130	47.8	100	84	603	163
63	399	141	60.2	100	107	647	163
76	407	149	72.2	120	121	677	188



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

Capacity in m³/hr.	Tube Size																	
	1" ID=0.870"			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
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

Capacity in m³/hr.	Tube Size																	
	1" ID=0.870"			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 micro-inches 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

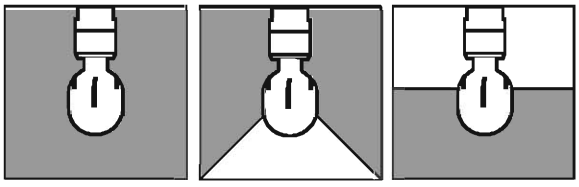
All ABC-KL custom tanks offer:

- 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 m^3 to 50 m^3, 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



Technical Expertise

Raw material
AISI 316L (UNS S31603)

Min. tank opening
RSH-25 25mm diameter(DN25)
RSH-45 45mm diameter(DN45)
RSH-65 65mm diameter(DN65)

Max. working temp.
95℃ (Max. ambient temp.140℃)

Impact cleaning radius
RSH25 max. r=0.6M
RSH45 max. r=1.4M
RSH65 max. r=2M

Working pressure
1-3 bar (Recommended pressure: 2bar)

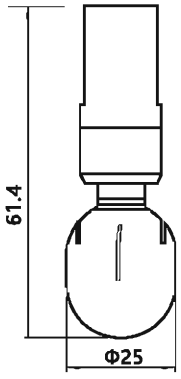
Spray pattern
360/270 up/180 down

Connection
Thread, Weld-on, Clip-on

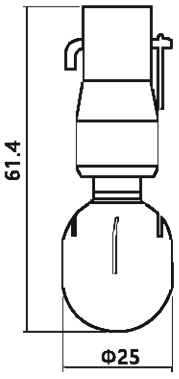
KRSH Rotary Spray Head-Φ25

Tank Cleaning Equipment

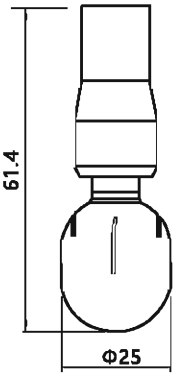
Lubricant	Self-lubricating with the cleaning fluid
Materical	AISI 316L（UNSS31603）
Min.tankopening	25mm diameter(DN25)
Working pressure	1~3bar
Recommended pressure	2bar
Working temp.	95℃
Ambient temp.	140℃
Wetting radius	2.5m
Cleaning radius	Max. 0.6m
Connections	Thread: 3/8"Rp(BSP)
	Clip-on: 3/4"(BPE/3A)
	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



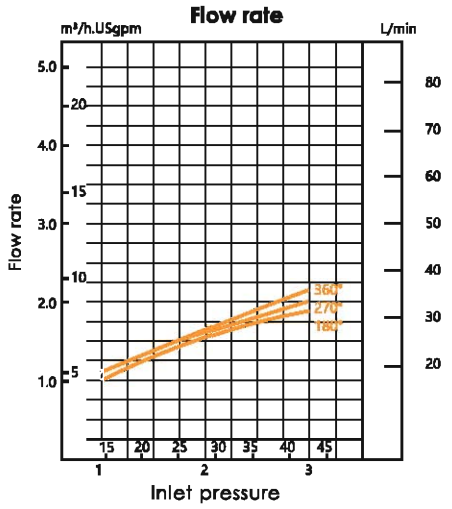
Thread

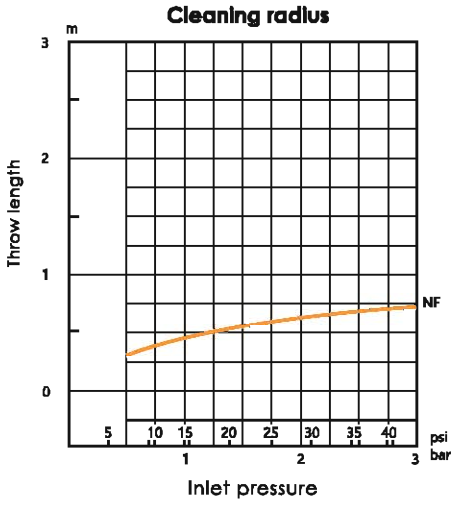


Clip-on



Weld-on

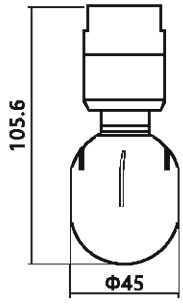




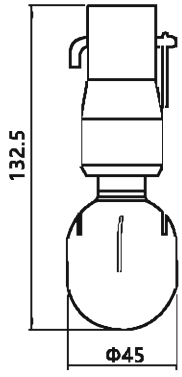
KRSH Rotary Spray Head-Φ45

Tank Cleaning Equipment

Lubricant	Self-lubricating with the cleaning fluid
Materical	AISI 316L（UNSS31603）
Port Size	Min.Φ45mm
Working pressure	1~3bar
Recommended pressure	2bar
Working temp.	95℃
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



Thread



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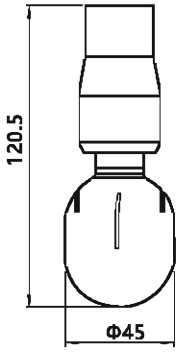
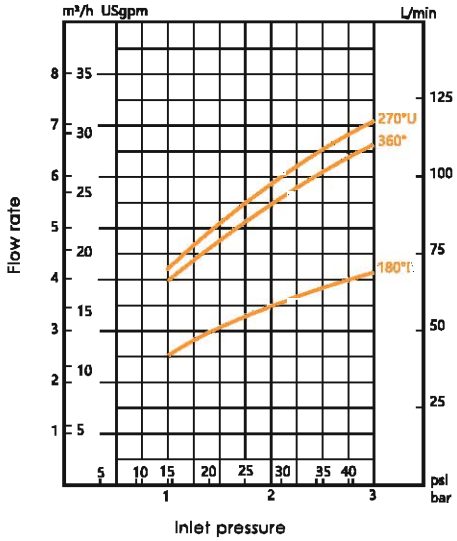
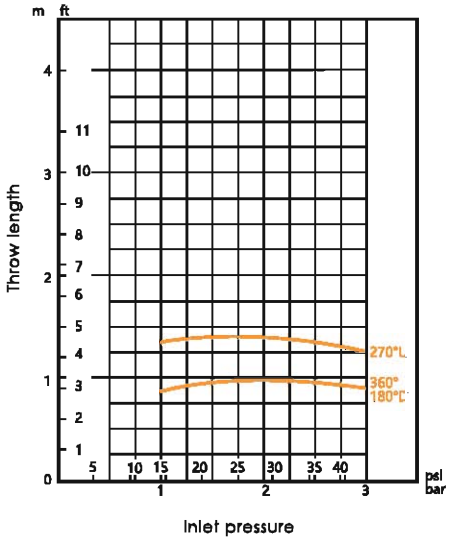


Weld-on

Flow rate



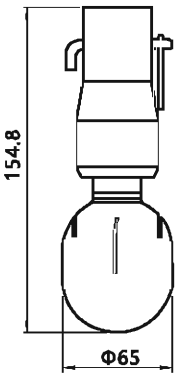
Cleaning radius



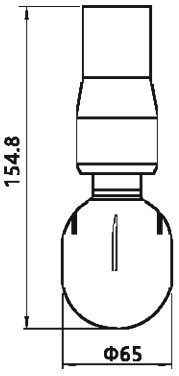
KRSH Rotary Spray Head-Φ65

Tank Cleaning Equipment

Lubricant	Self-lubricating with the cleaning fluid
Materical	AISI 316L（UNSS31603）
Port Size	Min.Φ25mm
Working pressure	1~3bar
Recommended pressure	2bar
Working temp.	95℃
Ambient temp.	140℃
Wetting radius	3m
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

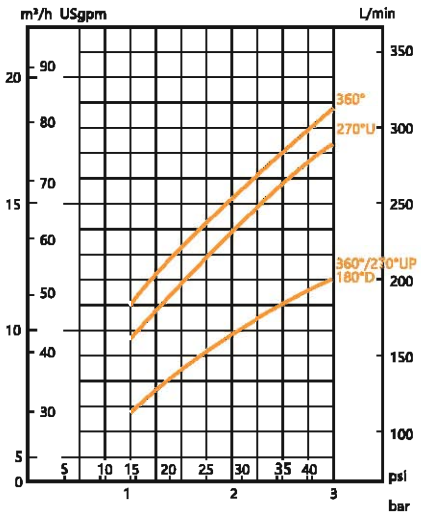


Clip-on



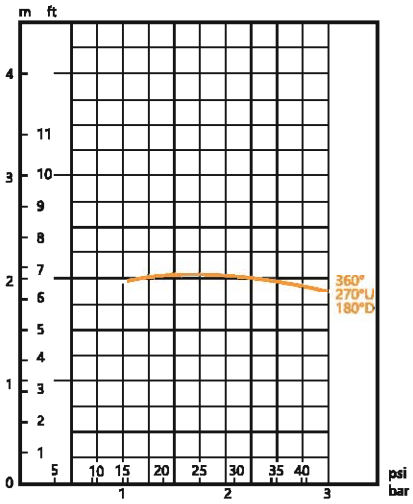
Weld-on

Flow rate



Inlet pressure

Cleaning radius



Inlet pressure

KSB Spray Ball

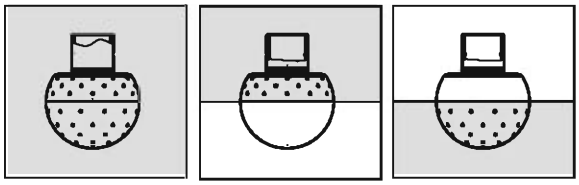
Tank Cleaning Equipment

KSB is a fixed spray ball used for cleaning storage tanks.

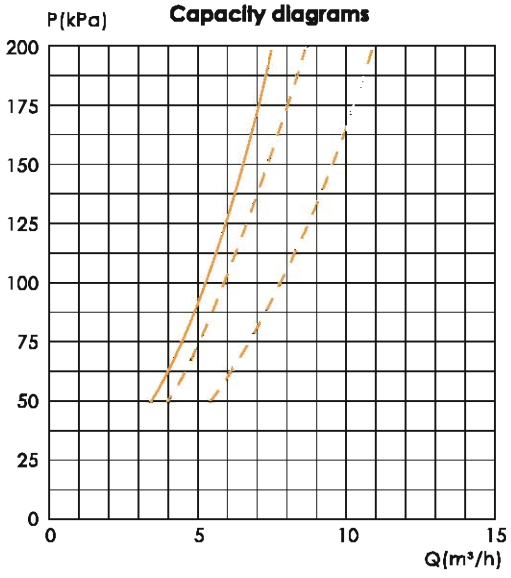
Fixed spray balls are used for less demanding cleaning duties.

Can be customized to meet customers' specific needs.

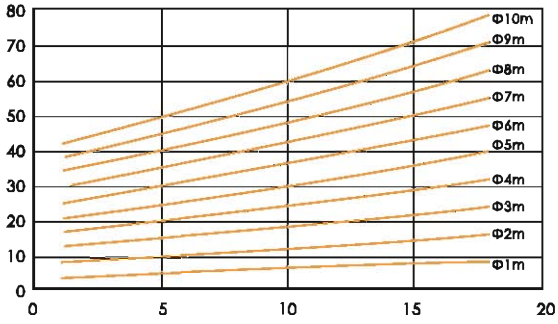
Spray Pattern



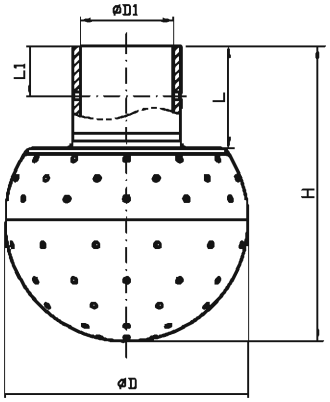
Capacity diagrams



Flow Rate Demand/Vertical Tank



360° Fully



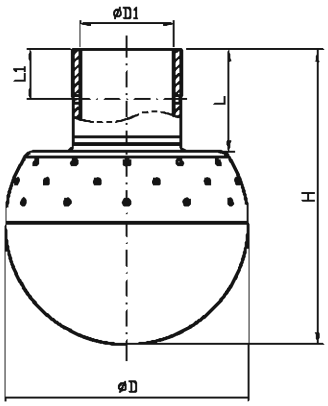
360° (Fully)

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
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(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
ISO19	40	19.3	52.6	21.0	9.0	4.2		1.0-1.5
ISO25	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	17.25	28.6	41.7	4.0-5.0

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
3/4"	40	19.3	52.6	21.0	9.0	4.2		1.0-1.5
1.0"	65	25.3	79.0	27.4	13.4	11.0	17.3	2.5-3.0
1.5"	65	38.3	79.0	27.4	13.4	11.8	19.2	2.5-3.5
2.0"	91	51.3	114.0	38.5	17.25	28.6	41.7	4.0-5.0

180° Top



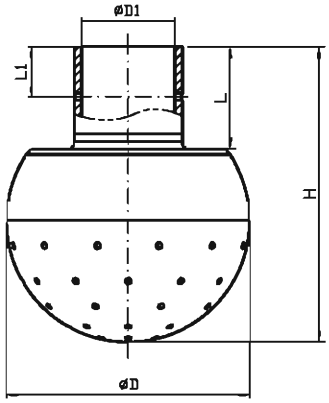
180° (Top)

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
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	91	52.2	114.0	38.5	38.5	19.5	30.6	4.0-5.0
DN50-1	91	53.2	114.0	38.5	38.5	19.5	30.6	4.0-5.0

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
ISO19	40	19.3	52.6	21.0	9.0	2.1		1.0-1.5
ISO25	65	25.3	79.0	27.4	13.4	8.7	12.8	2.5-3.0
ISO38	65	38.3	79.0	27.4	13.4	9.6	14.8	2.5-3.5
ISO51	91	51.3	114.0	38.5	17.25	19.5	30.6	4.0-5.0

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
3/4"	40	19.3	52.6	21.0	9.0	2.1		1.0-1.5
1.0"	65	25.3	79.0	27.4	13.4	8.7	12.8	2.5-3.0
1.5"	65	38.3	79.0	27.4	13.4	9.6	14.8	2.5-3.5
2.0"	91	51.3	114.0	38.5	17.25	19.5	30.6	4.0-5.0

180° Bottom



180° (Bottom)

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
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	91	52.2	114.0	38.5	38.5	17.0	28.0	4.0-4.5
DN50-1	91	53.2	114.0	38.5	38.5	17.0	28.0	4.0-4.5

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
ISO19	40	19.3	52.6	21.0	9.0	2.5		1.0-1.5
ISO25	65	25.3	79.0	27.4	13.4	7.0	10.9	2.0-3.0
ISO38	65	38.3	79.0	27.4	13.4	10.9	16.6	2.5-3.5
ISO51	91	51.3	114.0	38.5	17.25	17.0	28.0	4.0-5.0

SIZE	D	D1	H	L	L1	Q(m³/h) 1bar	Q(m³/h) 2.5bar	Flow Diameter (Φm)
3/4"	40	19.3	52.6	21.0	9.0	2.5		1.0-1.5
1.0"	65	25.3	79.0	27.4	13.4	7.0	10.9	2.0-3.0
1.5"	65	38.3	79.0	27.4	13.4	10.9	16.6	2.5-3.5
2.0"	91	51.3	114.0	38.5	17.25	17.0	28.6	4.0-5.0

KINGLAI

Kinglai Hygienic Materials Co., Ltd

ADD: No.22 West Lufeng Road, Lujia Town, Jiangsu Province, P.R.C

TEL: +86(0)512-57871991

FAX: +86(0)512-57871472

Email: sales@kinglai.com.cn

WEB: www.kinglai.com.cn

Please contact us for more product details