HAL-LOK 流体连接件专家 Fittings & Valves



上海浩流机械设备有限公司 Shanghai Haoliu Machinery Equipment Co., LTD

INTRODUCTION

Shanghai HaoLiu Machinery Equipment Co.,Ltd. Mainly produces and sells tube fittings,pipe fittings,quick connectors,stainless steel pressure regulator,diaphragm valves,stainless steel ball valves,stainless steel needle valves,instrument manifolds,seamless steel pipes,and provides gas pipeline engineering installation.The company has a group of high-quality engineering quality technical talents and mangement personnel,continuously introducing advanced technical experience,production equipment,and testing instrument from both domestic and foreign countries,and is committed to becoming a leading enterprise in the mechanical industry.

Our products sell well both domestically and internationally,and can be provided in the various forms such as single and double ferrules. They can be interchanged and used with international brands. Our products are widely used in petrochemical, natural gas, metallurgy, analytical instruments, biopharmaceutical, paper, food, shipbuilding, semiconductor and other fields.

We will make unremitting efforts, innovate continuously, improve product quality, improve after-sales service, and win strong support and praise from



		The Salety Posting
	Ce	rtificate Of Compliance
Certificate No.	:	TST20220870281-3RC
Applicant	:	Shanghai Haoliu Mechanical Equipment Co., Ltd No. 29, Jintang Road, Pudong New Area, Shanghai
Man ufa cturer	:	Shanghai Haoliu Mechanical Equipment Co., Ltd No. 29, Jintang Road, Pudong New Atea, Shanghai
Trade Mark		HAL-LOK
Sample Name		fittings and valves
Main Model		SKT-1/4
Series No.	:	4C-SS.6M-SS,YBQF-4.FMZF-4,HL8SL,YZ-KTG-6.35X0.89
Test Standard	×	IEC62321-1:2013 IEC62321-3:1:2013 IEC62321-4:2013/AMD1:2017 IEC62321-6:2013 IEC62321-6:2015 IEC62321-7:1:2015 IEC62321-7:2:2017 IEC62321-8:2017
As shown in the Test Report No.	:	TS120220870281-3RR
The EUT described a 2.0 Directive (EU) 2 The certificate applis the whole production	above h 015/86 es to th n. It is o	as been consolidated by us and found in compliance with the coun 3 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU e tested sample above mentioned only and shall not imply an asses only valid in connection with the test report number. TST202208702

Date:Sept01.2022

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customers.





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HAL-LOK

Union Straight



Dimensions, in.

Tube	Basic Ordering	D	imensio	ns
OD	Number	L	D	F
1/8	SKT-2	1.40	0.50	0.09
3/16	SKT-3	1.47	0.54	0.12
1/4	SKT-4	1.61	0.60	0.19
5/16	SKT-5	1.69	0.64	0.25
3/8	SKT-6	1.77	0.66	0.28
1/2	SKT-8	2.02	0.90	0.41
5/8	SKT-10	2.05	0.06	0.50
3/4	SKT-12	2.11	0.90	0.62
7/8	SKT-14	2.17	1.02	0.72
1	SKT-16	2 5 5	1 22	0.88
1 1/8	SKT-18	2.55	1.23	0.97
1 1/4	SKT-20	3.63	1.62	1.09
1 1/2	SKT-24	4.25	1.97	1.34
2	SKT-32	5.88	2.66	1.81



Tub	e OD	Basic Ordering		Di	mensio	ns		
T(mm)	Tx(in)	Number	L	D	Dx	S	F	
3	1/8	SKT-3M-2	35.2	12.9	12.8	2.4	12	
1	1/8	SKT-4M-2	36.5	127	12.8	24	12	
4	1/4	SKT-4M-4	39.4	13.7	15.3	2.4	14	
	1/8	SKT-6M-2	38.5		12.8	2.4	14	
6	1/4	SKT-6M-4	41.0	15.2	15.3	4.8	14	
0	5/16	SKT-6M-5	42.3	15.5	16.2	4.8	14	
	3/8	SKT-6M-6	43.2		16.8	4.8	16	
0	1/4	SKT-8M-4	42.3	16.2	15.3	4.8	15	
0	3/8	SKT-8M-6	44.3	10.2	16.9	6.4	16	
	1/8	SKT-10M-2	41.8		12.8	2.4		
10	1/4	SKT-10M-4	44.5	17.2	15.3	4.8	10	
10	5/16	SKT-10M-5	45.1	17.2	16.2	6.4	10	
	3/8	SKT-10M-6	45.9		16.9	7.1		
	1/4	SKT-12M-4	47.0		15.3	4.8		
12	5/16	SKT-12M-5	47.8	22.0	16.2	6.4	22	
12	3/8	SKT-12M-6	48.4	22.0	16.9	7.1	22	
-	1/2	SKT-12M-8	51.2		22.8	9.5		
15	1/2	SKT-15M-8	52.0	24.4	22.8	10.3	24	
16	5/8	SKT-16M-10	52.0	24.4	24.4	12.7	24	
18	3/4	SKT-18M-12	53.5	24.4	24.4	15.1	27	
20	1/2	SKT-20M-8	55.0	26.0	22.8	10.3	30	
20	1	SKT-20M-16	62.8	20.0	31.3	15.9	35	
25	1	SKT-25M-16	65.0	31.3	31.3	21.8	35	

Dimensions,mm.

Tube	Basic	D	imensio	ns
OD	Number	L	D	F
2	SKT-2M	35.6	12.0	1.7
3	SKT-3M	35.3	12.9	24
4	SKT-4M	37.3	13.7	2.4
6	SKT-6M	41.0	15.3	4.8
8	SKT-8M	43.2	16.2	6.4
10	SKT-10M	46.2	17.2	7.9
12	SKT-12M	51.2	22.8	9.5
14	SKT-14M			11.1
15	SKT-15M	52.0	24.4	11.9
16	SKT-16M		24.4	12.7
18	SKT-18M	53.5		15.1
20	SKT-20M	55.0	26.0	15.9
22	SKT-22M	55.0	20.0	18.3
25	SKT-25M	65.0	31.3	21.0
28	SKT-28M	85.0	36.6	21.0
30	SKT-30M	92.7	39.6	26.2
32	SKT-32M	97.3	42.0	28.6
38	SKT-38M	114.0	49.4	33.7
50	SKT-50M	146.0	65.0	45.2

How to Order

Select a basic ordering number. Example: SKT-2 Add a material designator. Example: SKT-2-SS

Material Designator Material Designator

HC

Β

S

NY

Т

Ti

316 SS	SS	Alloy C-276
Aluminum	Α	Brass
Alloy 20	С	Carbon steel
Alloy 400	Μ	Nylon
Alloy 600	INC	PTFE
Alloy 825	825	Titanium

Tube Fittings

Reducing Union



Tube	e OD	Basic		Dime	nsions,in	
T(in)	Tx(in)	Number		D	Dx	S
1//	1/8	SKT-4-2	1.52	0.60	0.50	0.09
1/4	3/16	SKT-4-3	1.55	0.00	0.54	0.12
	1/8	SKT-6-2	1.61		0.50	0.09
3/8	1/4	SKT-6-4	1.70	0.66	0.60	0.19
	5/16	SKT-6-5	1.74		0.64	0.25
	1/8	SKT-8-2	1.78		0.50	0.09
1/2	1/4	SKT-8-4	1.85	0.90	0.60	0.19
	3/8	SKT-8-6	1.91		0.66	0.28
E /0	3/8	SKT-10-6	1.94	0.06	0.66	0.28
5/8	1/2	SKT-10-8	2.05	0.96	0.90	0.41
	1/4	SKT-12-4	1.94		0.60	0.19
2/4	3/8	SKT-12-6	2.00	0.06	0.66	0.28
3/4	1/2	SKT-12-8	2.11	0.96	0.90	0.41
	5/8	SKT-12-10	2.11		0.96	0.50
1	1/2	SKT-16-8	2 20	1 22	0.90	0.41
L	3/4	SKT-16-12	2.30	1.23	0.96	0.62
Tube	e OD	Basic		Dimensi	ons,mm	
T(mm)	Tx(mm)	Ordering Number	Ľ,	D	Dx	S
	3	SKT -6M-3M	38.6		12.9	2.4
6	4	SKT-6M-4M	39.4	15.3	13.7	2.4
8	6	SKT-8M-6M	42.3	16.2	15.3	4.8
10	6	SKT-10M-6M	44.5	47.0	15.3	4.8
10	8	SKT-10M-8M	45.1	17.2	16.2	6.4
	6	SKT-12M-6M	47.0		15.3	4.8
12	8	SKT-12M-8M	47.8	22.8	16.2	6.4
	10	SKT-12M-10M	48.7		17.2	7.9
10	10	SKT-16M-10M	45.9	24.4	17.2	7.9
10	12	SKT-16M-12M	52.0	24.4	22.8	9.5
18	12	SKT-18M-12M	53.5	24.4	22.8	9.5
25	18	SKT-25M-18M	61.0	21.2	24.4	15.1
25	20	SKT-25M-20M	62.3	31.3	26.0	15.9
	18	SKT-30M-18M	75.4		24.4	15.1
30	20	SKT-30M-20M	75.4	39.6	26.0	15.9
	25	SKT-30M-25M	80.1		31.3	21.8
	18	SKT-32M-18M	77.8		24.4	15.1
32	20	SKT-32M-20M	77.8	42.0	26.0	15.9
	25	SKT-32M-25M	82.3		31.3	21.8
	20 SK		87.5		26.0	15.9
38	25	SKT-38M-25M	92.0	49.4	31.3	21.8
	30	SKT-38M-30M	105.0		39.6	26.2

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Tube	Basic			Dimens	ions,in.				
OD	Ordering Number	Ĺ	D	S	F	Panel Hole Size	Max Panel Thickness		
1/8	CBSKT-2	2.02	0.50	0.09	1/2	21/64	0.50		
1/4	CBSKT-4	2.27	0.60	0.19	5/8	29/64	0.40		
5/16	CBSKT-5	2.39	0.64	0.25	11/16	33/64	0.44		
3/8	CBSKT-6	2.45	0.66	0.28	3/4	37/64	0.44		
1/2	CBSKT-8	2.80	0.90	0.41	1 5/16	49/64	0 5 0		
5/8	CBSKT-10	2.86	0.96	0.50	1 1/16	57/64	0.50		
3/4	CBSKT-12	3.11	0.96	0.62	1 3/16	1 1/64	0.66		
1	CBSKT-16	3.77	1.23	0.88	1 5/8	1 21/64			
1 1/4	CBSKT-20	4.85	1.62	1.09	1 7/8	1 41/64	0.75		
1 1/2	CBSKT-24	5.48	1.97	1.34	2 1/4	1 61/64	0.75		
2	CBSKT-32	7.10	2.66	1.81	2 3/4	2 41/64			
Taba	Basic			Dimens	Dimensions,mm				
OD	Ordering Number	L	D	S	F	Panel Hole Size	Max Panel Thickness		
3	CBSKT-3M	51.3	12.9	2.4	14	8.3	10.7		
4	CBSKT-4M	53.6	13.7	2.4	1 14	9.9	12.7		
6	CBSKT-6M	57.7	15.3	4.8	16	11.5	10.2		
8	CBSKT-8M	61.0	16.2	6.4	18	13.1	11.0		
10	CBSKT-10M	63.7	17.2	7.9	22	16.3	11.2		
12	CBSKT-12M	71.0	22.8	9.5	24	19.5			
14	CBSKT-14M	72.5	24.4	11.1		22.5	107		
15	CBSKT-15M	72.5	24.4	11.9	27	22.0	12.7		
16	CBSKT-16M	72.5	24.4	12.7		22.0			
18	CBSKT-18M	78.9	24.4	15.1	30	26.0	16.8		
20	CBSKT-20M	84.5	26.0	15.9	35	29.0			
25	CBSKT-25M	96.0	31.3	21.8	41	34.0			
30	CBSKT-30M	124.0	39.6	26.2	50	40.5	19.0		
32	CBSKT-32M	128.0	42.0	28.6	50	12.5			
38	CBSKT-38M	145.0	49.4	33.7	60	50.5			

Bulkhead Reducing Union



Tu	Tube Basic OD Ordering			Dimensions,in.										
T	TX	Number		D	DX	S		Panel Hole Size	Max Panel Thickness					
1/4	1/8	CBSKT-4-2	2.17	0.60	0.50	0.09	5/8	29/64	0.40					
3/8	1/4	CBSKT-6-4	2.38	0.66	0.60	0.10	3/4	37/64	0.44					
1/2	1/4	CBSKT-8-4	2.63	0.90	0.00	0.19	15/16	49/64	0.50					

Tube OD		Basic		Dimensions,mm								
Т	ТΧ	Number	L	D	DX	S	F	Panel Hole Size	Max Panel Thickness			
6	3	CBSKT-6M-3M	55.1	15.3	12.7	2.4	16	11.5	10.2			
6	10	CBSKT-6M-10M	60.4	16.7	15.2	4.8	19	14	11.1			
6	12	CBSKT-6M-12M	66.8	22.8	15.2	4.8	23.8	17	12.7			

Tube Fittings

Male Connector



Tube	NPT	Basic Ordering		Dimensi	ons,mm		Tube	NPT	Basic Ordering		Dimens	sions,in.	
OD	in. Number L D S F	OD		Number	L.	D	S	F					
2	1/8	SKTM-3M-2N	30.5	12.0	24	12		1/8	SKTM-2-2N	1.20			7/16
3	1/4	SKTM-3M-4N	35.6	12.9	2.4	14	1 /0	1/4	SKTM-2-4N	1.40	0.50	0.00	9/16
	4.10		04.0			10	1/0	2/0	CITM O CNI	1 41	0.50	0.09	11/10

1	1/8	SKTM-4M-2N	31.2	127	24	12		3/8	SKTM-2-6N	1.41			11/16
4	1/4	SKTM-4M-4N	36.3	13.7	2.4	14		1/2	SKTM-2-8N	1.66			7/8
	1/8	SKTM-6M-2N	32.8			14	3/16	1/8	SKTM-3-2N	1.23	0.54	0.12	7/16
6	1/4	SKTM-6M-4N	37.9	150	4.0	14	5/10	1/4	SKTM-3-4N	1.43	0.34	0.12	9/16
0	3/8	SKTM-6M-6N	38.4	15.3	4.8	18		1/8	SKTM-4-2N	1.29		0.19	1/2
	1/2	SKTM-6M-8N	44.7	1		22		1/4	SKTM-4-4N	1.49		0.19	9/16
	1/8	SKTM-8M-2N	34.2		4.8	15	1/4	3/8	SKTM-4-6N	1.51	0.60	0.19	11/16
_	1/4	SKTM-8M-4N	38.7	100	6.4	15		1/2	SKTM-4-8N	1.76		0.19	7/8
8	3/8	SKTM-8M-6N	39.9	16.2	6.4	18		3/4	SKTM-4-12N	1.82		0.19	1 1/16
	1/2	SKTM-8M-8N	45.6	1	6.4	22		1/8	SKTM-5-2N	1.34		0.19	9/16
	1/8	SKTM-10M-2N	36.3		4.8	18	5/16	1/4	SKTM-5-4N	1.52	0.64	0.25	9/16
	1/4	SKTM-10M-4N	40.9		7.1	18		3/8	SKTM-5-6N	1.54		0.25	11/16
10	3/8	SKTM-10M-6N	40.9	17.2	7.9	18		1/8	SKTM-6-2N	1.39		0.19	5/8
	1/2	SKTM-10M-8N	46.5		7.9	22		1/4	SKTM-6-4N	1.57		0.28	5/8
	3/4	SKTM-10M-12N	48.0		7.9	27	3/8	3/8	SKTM-6-6N	1.57	0.66	0.28	11/16
	1/8	SKTM-12M-2N	38.8		4.8	22	0,0	1/2	SKTM-6-8N	1.82	0.00	0.28	7/8
	1/4	SKTM-12M-4N	43.4		7.1	22		3/4	SKTM-6-12N	1.88		0.28	1 1/16
12	3/8	SKTM-12M-6N	43.4	22.8	9.5	22		1	SKTM-6-16N	2.14		0.28	1 3/8
	1/2	SKTM-12M-8N	49.0		9.5	22		1/8	SKTM-8-2N	1.53		0.19	13/16
	3/4	SKTM-12M-12N	50.5		9.5	27		1/4	SKTM-8-4N	1.71		0.28	13/16
	1/4	SKTM-14M-4N	44.1		7.1		1/2	3/8	SKTM-8-6N	1.71	0.90	0.38	13/16
14	3/8	SKTM-14M-6N	44.1	24.4	9.5	24	1/2	1/2	SKTM-8-8N	1.93	0.00	0.41	7/8
	1/2	SKTM-14M-8N	49.0		11.1			3/4	SKTM-8-12N	1.99		0.41	1 1/16
15	1/2	SKTM-15M-8N	49.0	24.4	11.9	24		1	SKTM-8-16N	2.25		0.41	1 3/8
	3/8	SKTM-16M-6N	44.1		9.5	24		1/4	SKTM-10-4N	1.74		0.28	15/16
16	1/2	SKTM-16M-8N	49.0	24.4	11.9	24	5/8	3/8	SKTM-10-6N	1.74	0.96	0.38	15/16
	3/4	SKTM-16M-12N	50.5		12.7	27	0,0	1/2	SKTM-10-8N	1.93	0.00	0.47	15/16
	1/2	SKTM-18M-8N	00.0		11.9			3/4	SKTM-10-12N	1.99		0.50	1 1/16
18	3/4	SKTM-18M-12N	50.5	24.4	15.1	27		3/8	SKTM-12-6N	1.80		0.41	1 1/16
	1/2	SKTM-20M-8N			11.9		3/4	1/2	SKTM-12-8N	1.99	0.96	0.47	1 1/16
20	3/4	SKTM-20M-12N	52.3	26.0	15.9	30	0, 1	3/4	SKTM-12-12N	1.99	0.00	0.62	1 1/16
	3/4	SKTM-22M-12N	52.3		15.9	30		1	SKTM-12-16N	2.25		0.62	1 3/8
22	1	SKTM-22M-16N	57.1	26.0	18.3	35		1/2	SKTM-14-8N	1.99		0.47	1 3/16
-	1/2	SKTM-25M-8N	57.5		11.0	- 35	7/8	3/4	SKTM-14-12N	1.99	1.02	0.62	1 3/16
25	3/4	SKTM-25M-12N	57.5	21.2	15.0	25		1	SKTM-14-16N	2.25		0.72	1 3/8
25	3/4	SKTM 25M 16N	62.2	51.5	21.9	- 35		1/2	SKTM16-8N	1.99		0.47	
	1	SKTM 29M 16N	72.4		21.0	41	1	3/4	SKTM16-12N	1.99	1.23	0.62	1 3/8
28	1 1/4	SKTM 20M 20M	72.4	36.6	21.8	41		1	SKTM16-16N	2.25		0.88	
20	1 1/4	SKTNA 20NA 20NI	77.0	20.0	26.2	40	1 1/8	1	SKTM-18-16N	2.45	1.23	0.88	1 5/8
30	1 1/4	SKTW-30W-20W	70.0	39.0	20.2	40	1 1/4	1	SKTM-20-16N	3.04	1.62	0.88	1 3/4
32	1 1/4	SKTNA 20NA 24N	19.0	42.0	20.0	40		1 1/4	SKTM-20-20N			1.09	
38	1 1/2	3K11VI-381VI-241N	91.0	49.4	33.1	55	1 1/2	1 1/2	SKTM-24-24N	3.50	1.97	1.34	2 1/8
							2	2	SKTM-32-32N	4.47	2.66	1.81	2 3/4

HAL-LOK

Male Connector ISO/BSP Tapered Thread ,(R ZG)



Tube	ISO/RSP	Basic Ordering		Dimens	ions,in			Tube	ISO/F
OD	1007 001	Number	L	D	S	F		OD	100/1
1/0	1/8	SKTM-2-2RT	1.25	0.55	0.14	7/16		2	1/
1/8	1/4	SKTM-2-4RT	1.45	0.55	0.14	$\begin{array}{ c c c c c c } \hline \text{Dns,in} & & & & & & \\ \hline S & F & & & \\ \hline 0.14 & 7/16 & & & \\ 9/16 & & & & \\ 1/2 & & & & \\ 9/16 & & & & \\ 11/16 & & & & \\ 7/8 & & & & \\ 0.24 & 9/16 & & & \\ 0.24 & 9/16 & & & \\ 0.24 & 5/8 & & & \\ 0.33 & 5/8 & & & \\ 0.33 & 5/8 & & & \\ 0.33 & 11/16 & & & \\ 0.33 & 11/16 & & & \\ 0.33 & 13/16 & & & \\ 0.46 & 7/8 & & & \\ 0.46 & 1 & 1/16 & & \\ 0.46 & 7/8 & & & \\ 0.46 & 1 & 1/16 & & \\ 0.46 & 1 & 1/16 & & \\ 0.46 & 1 & 1/16 & & \\ 0.52 & 15/16 & & & \\ 0.67 & 1 & 1/16 & & \\ 1 & 3/8 & & & \\ 0.93 & 1 & 3/8 & & \\ \end{array}$	1/		
-	1/8	SKTM-4-2RT	1.34			1/2		3	1/
1/4	1/4	SKTM-4-4RT	1.54	1005	0.24	9/16		4	1/
1/4	3/8	SKTM-4-6RT	1.56	0.65	0.24	11/16		4	1/-
	1/2	SKTM-4-8RT	1.85	1		7/8			1/
E /1 C	1/8	SKTM-5-2RT	1.39	0.00	0.24	0/10		6	1/-
5/10	1/4	SKTM-5-4RT	1.57	0.69	0.30	9/10		0	3/
-	1/8	SKTM-6-2RT	1.44		0.24	5/8			1/
	1/4	SKTM-6-4RT	1.62	1	0.33	5/8			1/
3/8	3/8	SKTM-6-6RT	1.62	0.71	0.33	11/16		8	1/
	1/2	SKTM-6-8RT	1.87	1	0.33	7/8		0	3/
	3/4	SKTM-6-12RT	1.93	1	0.33	1 1/16	Tube OD IS 7/16 2 1 1/16 3 1 1/16 4 1 1/16 4 1 1/16 6 1 5/8 6 1 5/8 8 1 5/8 8 1 5/8 8 1 5/8 1 10 5/8 10 10 3/16 10 10 3/16 12 12 3/8 12 12	1/	
	1/4	SKTM-8-4RT	1.76		0.33	13/16			1/
1 /0	3/4	SKTM-8-6RT	1.76	1	0.43	13/16			1/
1/2	1/2	SKTM-8-8RT	1.98	0.95	0.46	7/8		10	3/
	3/4	SKTM-8-12RT	2.04	1	0.46	1 1/16			1/
5/8	1/2	SKTM-10-8RT	1.98	1.01	0.52	15/16			3/
2/4	3/4	SKTM-12-12RT	2.04	1.01	0.07	1 1/16			1/
3/4	1	SKTM-12-16RT	2.30	1 1.01	0.67	1 3/8		12	3/
4	3/4	SKTM-16-12RT	2.31	1.00	0.68	1.0/0			1/
1	1	SKTM-16-16RT	2.50	1.28	0.93	1 3/8			3/
									1/

Tube	ISO/BSP	Basic Ordering		Dimensi	ons,mn	า
OD	in.	Number	L	D	S	F
0	4.10	OVTLA ONA ODT	01.0	10.4	0.0	40 5

2	1/8	SKIM-2M-2RI	31.0	13.4	2.2	12.5
2	1/8	SKTM-3M-2RT	31.0	12/	20	12.5
3	1/4	SKTM-3M-4RT	36.1	13.4	2.9	14.5
4	1/8	SKTM-4M-2RT	31.7	14.2	20	12.5
4	1/4	SKTM-4M-4RT	36.8	14.2	2.9	14.5
	1/8	SKTM-6M-2RT	33.3			14.5
6	1/4	SKTM-6M-4RT	38.4	150	E 2	14.5
0	3/8	SKTM-6M-6RT	38.9	15.0	5.5	18.5
	1/2	SKTM-6M-8RT	45.2			22.5
	1/8	SKTM-8M-2RT	34.7		5.3	15.5
0	1/4	SKTM-8M-4RT	39.2	167	6.9	15.5
0	3/8	SKTM-8M-6RT	39.7	10.7	6.9	18.5
	1/2	SKTM-8M-8RT	46.1		6.9	22.5
	1/8	SKTM-10M-2RT	36.8		5.3	18.5
	1/4	SKTM-10M-4RT	41.4		7.6	18.5
10	3/8	SKTM-10M-6RT	41.4	17.7	8.4	18.5
	1/2	SKTM-10M-8RT	47.0		8.4	22.5
	3/4	SKTM-10M-12RT	48.5		8.4	27.5
	1/4	SKTM-12M-4RT	44.0		7.6	22.5
10	3/8	SKTM-12M-6RT	43.9	22.2	10.0	22.5
12	1/2	SKTM-12M-8RT	49.5	23.3	10.0	22.5
	3/4	SKTM-12M-12RT	51.0		10.0	27.5
14	1/4	SKTM-14M-4RT	44.6	24.0	7.6	24 5
14	3/8	SKTM-14M-6RT	44.6	24.9	10.0	24.5
15	1/2	SKTM-15M-8RT	49.5	24.9	12.4	24.5
	1/4	SKTM-16M-4RT	44.6		7.6	24.5
16	3/8	SKTM-16M-6RT	44.6	24.0	10.0	24.5
10	1/2	SKTM-16M-8RT	50.1	24.9	12.4	24.5
	3/4	SKTM-16M-12RT	51.0		13.2	27.5
10	1/2	SKTM-18M-8RT	E1 0	24.0	12.4	27 F
10	3/4	SKTM-18M-12RT	51.0	24.9	15.6	27.5
20	1/2	SKTM-20M-8RT	E2 0	26 F	12.4	20 E
20	3/4	SKTM-20M-12RT	52.8	20.5	16.4	30.5
22	3/4	SKTM-22M-12RT	52.8	00 F	16.4	30.5
22	1	SKTM-22M-16RT	57.6	26.5	18.8	35.5
	1/2	SKTM-25M-8RT	58.0		12.4	
25	3/4	SKTM-25M-12RT	58.0	31.8	16.4	35.5
	1	SKTM-25M-16RT	62.8		22.3	
20	1	SKTM-28M-16RT	72.9	07.4	22.2	41.5
28	1 1/4	SKTM-28M-20RT	73.6	37.1	22.3	46.5
30	1 1/4	SKTM-30M-20RT	77.7	77.7	26.7	46.5
32	1 1/4	SKTM-32M-20RT	80.1	80.1	29.1	46.5
38	1 1/2	SKTM-38M-24RT	92.1	92.1	34.2	55.5

Tube Fittings

Male Connector ISO/BSP Parallel Thread ,(G)



Tube	Thread	Basic Ordering	Dimensions,in		Tube	Thread	Basic	Dimensions,mm					
OD	size	Number	L	D	S	F	OD	size in.	Number	L	D	S	F
1 /0	1/8	SKTB-2-2G	1.36	0.55	0.14	9/16	2	1/8	SKTB-2M-2G	33.8	13.4	2.2	14.5
1/8	2/9	SKTB-2-4G	1.55	0.55	0.14	3/4		1/8	SKTB-3M-2G	33.8			14.5
	1/8	SKTB-2-00	1.30		0.21	9/16	3	1/4	SKTB-3M-4G	38.6	13.4	2.9	19.5
2.22	1/4	SKTB-4-4G	1.64		0.24	3/4	4	1/8	SKTB-4M-2G	34.5	14.2	2.9	14.5
1/4	3/8	SKTB-4-6G	1.67	0.65	0.24	7/8		1/8	SKTB-6M-2G	36.1		45	14.5
	1/2	SKTB-4-8G	1.75		0.24	1 1/16		1/4	SKTB-6M-4C	10.0		5.2	10.5
	1/8	SKTB-6-2G	1.54		0.21	5/8	6	2/9	SKTD-OWI-40	40.9	15.8	5.5	19.5
3/8	1/4	SKTB-6-4G	1.70	0.71	0.28	3/4		3/8	SKIB-0W-0G	41.6		5.3	22.5
5/0	3/8	SKTB-6-6G	1.73	0.71	0.33	7/8		1/2	SKTB-6M-8G	437		5.3	27.5
	1/2	SKTB-6-8G	1.81		0.33	1 1/16		1/8	SKTB-8M-2G	37.2		4.5	15.5
	1/4	SKTB-8-4G	1.81		0.28	13/16	8	1/4	SKTB-8M-4G	41.9	16.7	6.9	19.5
1/2	3/8	SKTB-8-6G	1.84	0.95	0.36	7/8	o	3/8	SKTB-8M-6G	42.7	10.7	6.9	22.5
	1/2	SKIB-8-8G	1.92		0.46	1 1/16		1/2	SKTB-8M-8G	44.7		6.9	27.5
3/4	3/4	SKTB-12-8G	2.10	1.01	0.52	1 1/16		1/4	SKTB-10M-4G	42.7		6.4	19.5
	1/2	SKTB-16-8G	2.24		0.20	1 3/8	10	3/8	SKTB-10M-6G	43.4	17.7	8.4	22.5
1	3/4	SKTB-16-12G	2.32	1.28	0.68	1 3/8		1/2	SKTB-10M-8G	45.5		8.4	27.5
	1	SKTB-16-16G	2.40		0.83	1 5/8		1/4	SKTB-12M-4G	45.0		6.4	22.5
								3/8	SKTB-12M-6G	46.0		8.4	22.5
							12	1/2	SKTB-12M-8G	48.0	23.3	10.0	27.5
								3/4	SKTB-12M-12G	52.6		10.0	35.5
								3/8	SKTB-14M-6G	44.4		8.4	24.5
							14	1/2	SKTB-14M-8G	48.0	24.9	11.6	27.5
								3/8	SKTB-15M-6G	46.0		8.4	24.5
							15	1/2	SKTB-15M-8G	48.0	24.9	12.4	27.5
							3/4	SKTB-15M-12G	53.3		12.4	35.5	
								3/8	SKTB-16M-6G	46.0	2	8.4	24.5
							16	1/2	SKTB-16M-8G	48.0	24.9	12.4	27.5

	3/4	SKTB-16M-12G	53.3		13.2	35.5
10	1/2	SKTB-18M-8G	49.3	2/ 0	12.4	27.5
10	3/4	SKTB-18M-12G	52.6	24.9	15.6	35.5
20	1/2	SKTB-20M-8G	51.0	26.5	12.4	30.5
20	3/4	SKTB-20M-12G	53.1	20.5	16.4	35.5
22	3/4	SKTB-22M-12G	53.1	26 5	16.4	35.5
22	1	SKTB-22M-16G	55.4	20.5	18.8	41.5
25	3/4	SKTB-22M-12G	58.2	21.0	16.4	35.5
25	1	SKTB-22M-16G	60.2	51.0	20.3	41.5
20	1	SKTB-28M-16G	70.4	27 1	20.3	41.5
20	1 1/4	SKTB-28M-20G	73.4	57.1	22.3	50.5
30	1 1/4	SKTB-30M-20G	77.2	40.1	25.5	50.5
32	1 1/4	SKTB-32M-20G	79.7	42.6	25.5	50.5

HAL-LOK

NOTE: If ordering R threads, add RT to the ordering number. Example:CBSK-2-2RT Example:CBSK-6M-2RT



Bulkhead NPT

Tube	NDT	Basic	Dimensions,in									
OD	NPI	Ordering Number	Ľ.	D	S	F	Panel Hole Size	Max Panel Thickness				
.1/8	1/8	CBSK-2-2N	1.88	0.55	0.14	1/2	21/64	0.55				
1/4	1/8	CBSK-4-2N	2.00	0.65	0.24	5/8	20/64	0.45				
1/4	1/4	CBSK-4-4N	2.18	0.05	0.24	5/0	29/04	0.45				
	1/4	CBSK-6-4N	2.31			3/4						
3/8	3/8	CBSK-6-6N	2.31	0.71	0.33	3/4	37/64	0.49				
	1/2	CBSK-6-8N	2.56			7/8						
1/2	3/8	CBSK-8-6N	2.54	0.05	0.43	15/16	49/64	0.55				
1/2	1/2	CBSK-8-8N	2.76	0.95	0.46	15/10	1 1/64	0.55				
3/4	3/4	CBSK-12-12N	3.05	1.01	0.67	1 3/16	1 1/04	0.71				
1	1	CBSK-16-16N	3.72	1.28	0.93	1 5/8	1 21/64	0.80				

Tube	NDT	Basic	Dimensions,mm								
OD	in.	Ordering Number	Ĺ	D	S	F	Panel Hole Size	Max Panel Thickness			
6	1/8	CBSK-6M-2N	50.00	15.9	5.2	16.0	11 5	10.0			
	1/4	CBSK-6M-4N	54.10	13.0	5.5	10.0	11.5	10.0			
12	1/2	CBSK-12M-8N	69.30	23.3	10.0	24.0	19.5	13.2			



Tube	AN Tube Flare	Basic	Dimensions,in.								
OD	Flare Size	Ordering Number	L	D	S	F	Z				
1/16	1/8	SKTF-1-2J	1.12	0.39	0.10	7/16	5/16-24UNJF-3				
1/9	1/8	SKTF-2-2J	1.32	0.55	0.11		5/16-24UNJF-3				
1/0	1/4	SKTF-2-4J	1.43	0.55	0.14	1/2	7/16-20UNJF-3				
1/4	1/4	SKTF-4-4J	1.53	0.65	0.22	1/2	7/16-20UNJF-3				
5/16	5/16	SKTF-5-5J	1.56	0.69	0.28	9/16	1/2-20UNJF-3				
2/9	1/4	SKTF-6-4J	1 6 1	0.71	0.22	5/9	7/16-20UNJF-3				
3/0	3/8	SKTF-6-6J	1.01	0.71	0.33	5/0	9/16-18UNJF-3				
1/2	1/2	SKTF-8-8J	1.86	0.95	0.44	13/16	3/4-16UNJF-3				
3/4	3/4	SKTF-12-12J	2.15	1.01	0.66	1 1/8	1 1/16-12UNJ-3				
1	1	SKTF-16-16J	2.47	1.28	0.89	1 3/8	1 5/16-12UNJ-4				

Tube Fittings



Tube	Pipe	Basic			Dimensions,in.			
OD	Size	Number	L	D	S	F	J	
1/8	1/8	SKCW-2-2P	1.20	0.50	0.09	7/16	0.405	
3/16	1/8	SKCW-3-2P	1.23	0.54	0.12	7/16	0.405	
1/4	1/8	SKCW-4-2P	1.29	0.60	0.10	1/2	0.405	
1/4	1/4	SKCW-4-4P	1.49	0.00	0.19	9/16	0.540	
5/16	1/8	SKCW-5-2P	1.34	0.64	0.21	0/16	0.450	
5/10	1/4	SKCW-5-4P	1.52	0.04	0.25	9/10	0.540	
	1/4	SKCW-6-4P	1.57			5/8	0.540	
2/0	3/8	SKCW-6-6P	1.57	0.66	0.20	11/16	0.675	
3/0	1/8	SKCW-6-2P	1.82	0.00	0.20	7/8	0.840	
	3/4	SKCW-6-12P	1.88			1 1/6	1.050	
	3/8	SKCW-8-6P	1.71			13/16	0.675	
1/2	1/2	SKCW-8-8P	1.93	0.00	0.41	0.41	7/8	0.840
1/2	3/4	SKCW-8-12P	1.99	0.90		1 1/6	1.050	
	1	SKCW-8-16P	2.25			1 3/8	1.315	
5/8	1/2	SKCW-10-8P	1.93	0.96	0.50	15/16	0.840	
2/4	1/2	SKCW-12-8P	1.00	0.06	0.55	1 1/16	0.840	
3/4	3/4	SKCW-12-12P	1.99	0.90	0.62	1 1/10	1.050	
1	1	SKCW-16-16P	2.45	1.23	0.88	1 3/8	1.315	
1 1/4	1 1/4	SKCW-20-20P	3.04	1.62	1.09	1 3/4	1.660	
1 1/2	1 1/2	SKCW-24-24P	3.50	1.97	1.34	2 1/8	1.900	
2	2	SKCW-32-32P	4.47	2.66	1.81	2 3/4	2.375	

Tube	Pipe Weld	Basic			Dimen	sions,mm		
OD	Size (in.)	Number	L	D	S	F	F in	J
3	1/8	SKCW-3M-2P	30.5	12.9	2.4	12	1/2	10.3
4	1/8	SKCW-4M-2P	31.2	13.7	2.4	12	1/2	10.3
6	1/8	SKCW-6M-2P	32.8	15.2	10	14	1/2	10.3
0	1/4	SKCW-6M-4P	37.9	15.5	4.0	14	9/16	13.7
	1/8	SKCW-8M-2P	34.2		5.4	15	9/16	10.3
8	1/4	SKCW-8M-4P	38.7	16.2	6.4	15	9/16	13.7
	1/2	SKCW-8M-8P	45.6		6.4	22	7/8	21.3
	1/4	SKCW-10M-4P	40.9		7.5	18	11/16	13.7
10	3/8	SKCW-10M-6P	40.9	17.2	7.9	18	11/16	17.1
	1/2	SKCW-10M-8P	46.5		0.9	22	7/8	21.3
	1/4	SKCW-12M-4P	43.4		7.5	22	13/16	13.7
12	3/8	SKCW-12M-6P	43.4	22.0	9.5	22	13/16	17.1
12	1/2	SKCW-12M-8P	49.0	22.0	9.5	22	7/8	21.3
	3/4	SKCW-12M-12P	50.5		9.5	27	1 1/6	26.7
14	3/8	SKCW-14M-6P	44.1	24.4	10.7	24	15/16	17.1
15	1/2	SKCW-15M-8P	49.0	24.4	11.9	24	15/16	21.3
16	1/2	SKCW-16M-8P	49.0	24.4	12.7	24	15/16	21.3
18	1/2	SKCW-18M-8P	50.5	24.4	13.9	27	1 1/16	21.3
30	1 1/4	SKCW-30M-20P	77.2	39.6	26.2	46	46mm	42.2
32	1 1/4	SKCW-32M-20P	9.6	42.0	28.6	46	46mm	42.2
38	1 1/2	SKCW-38M-24P	91.6	49.4	33.7	55	55mm	48.3







Tube	NIDT	Basic Ordering	Dimensions,in										
OD	1710 1	Number	L	D	S	F							
1/8	1/8	SKNF-2-2N	1.13	0.50	0 00	9/16							
1/0	1/4	SKNF-2-4N	1.32	0.50	0.03	3/4	-			1			
3/16	1/8	SKNF-3-2N	1.17	0.54	0.12	9/16	Tube	NIDT	Basic	C	Dimensi	ions,mn	n
	1/8	SKNF-4-2N	1.23			9/16	OD	in.	Number	L	D	S	16 E
1/4	1/4	SKNF-4-4N	1.41	0.60	0 19	3/4	2	1/8	SKNF-3M-2N	28.7	12.0	24	14
1/4	3/8	SKNF-4-6N	1.48	0.00	0.15	7/8	3	1/4	SKNF-3M-4N	33.5	12.9	2.4	19
	1/2	SKNF-4-8N	1.67			1 1/16	4	1/8	SKNF-4M-2N	29.7	13.7	2.4	14
5/16	1/8	SKNF-5-2N	1.26	0 64	0.25	9/16		1/8	SKNF-6M-2N	31.3			14
0/10	1/4	SKNF-5-4N	1.45	0.04	0.20	3/4	6	1/4	SKNF-6M-4N	35.8	15 3	18	19
	1/8	SKNF-6-2N	1.29			5/8	0	3/8	SKNF-6M-6N	37.6	13.5	4.0	22
	1/4	SKNF-6-4N	0.48			3/4		1/2	SKNF-6M-8N	42.5			27
3/8	3/8	SKNF-6-6N	1.54	0.66	0.66 0.28	7/8		1/8	SKNF-8M-2N	32.1			15
	1/2	SKNF-6-8N	1.73	1	1 1/16	8	1/4	SKNF-8M-4N	37.0	16.2	64	19	
	3/4	SKNF-6-12N	1.88		1 5/16	U	3/8	SKNF-8M-6N	38.5	10.2	0.4	22	
	1/4	SKNF-8-4N	1.59			13/16		1/2	SKNF-8M-8N	43.3			27
1/2	3/8	SKNF-8-6N	1.65	0 90	0 4 1	7/8		1/4	SKNF-10M-4N	37.8			19
1/2	1/2	SKNF-8-8N	1.84	0.00	0.71	1 1/16	10	3/8	SKNF-10M-6N	39.4	17.2	7.9	22
	3/4	SKNF-8-12N	1.90	-		1 5/16		1/2	SKNF-10M-8N	44.2			27
	3/8	SKNF-10-6N	1.65			15/16		1/4	SKNF-12M-4N	40.3			22
5/8	1/2	SKNF-10-8N	1.84	0.96	0.50	1 1/16	12	3/8	SKNF-12M-6N	41.9	22.8	9.5	22
	3/4	SKNF-10-12N	1.90			1 5/16		1/2	SKNF-12M-8N	46.7			27
3/4	1/2	SKNF-12-8N	1.84	0.96	0.62	1 1/16	15	1/2	SKNF-15M-8N	46.7	24.4	11.9	27
0/ +	3/4	SKNF-12-12N	1.90	0.00	0.02	1 5/16	16	1/2	SKNF-16M-8N	46.9	24.4	12.7	27
7/8	3/4	SKNF-14-12N	1.96	1.02	0.72	1 5/16	20	1/2	SKNF-20M-8N	47.9	26.0	159	30
1	3/4	SKNF-16-12N	2.10	1.23	0.88	1 3/8		3/4	SKNF-20M-12N	49.7	20.0	10.0	35
-	1	SKNF-16-16N	2.45	1.20	0.00	1 5/8	22	3/4	SKNF-22M-12N	49.7	26.0	18.2	35
1 1/4	1 1/4	SKNF-20-20N	2.94	1.62	1.09	2 1/8		1	SKNF-22M-16N	57.9	20.0	10.2	41
1 1/2	1 1/2	SKNF-24-24N	3.28	1.97	1.34	2 3/8	25	3/4	SKNF-25M-12N	53.4	31.3	21.8	35
2	2	SKNF-32-32N	4.00	2.66	1.81	2 7/8	23	1	SKNF-25M-16N	62.3	01.0	21.0	41

3/16	1/8	SKNF-3-2N	1.17	0.54	0.12	9/16	Tube	NIDT	Basic	Dimensions,mm				
	1/8	SKNF-4-2N	1.23			9/16	OD	in.	Number	L	D	S	and P	
1/4	1/4	SKNF-4-4N	1.41	0 60	0 10	3/4	2	1/8	SKNF-3M-2N	28.7	12.0	2.4	14	
1/4	3/8	SKNF-4-6N	1.48	0.00	0.19	7/8	3	1/4	SKNF-3M-4N	33.5	12.9	2.4	19	
	1/2	SKNF-4-8N	1.67			1 1/16	4	1/8	SKNF-4M-2N	29.7	13.7	2.4	14	
5/16	1/8	SKNF-5-2N	1.26	0.64	0.25	9/16		1/8	SKNF-6M-2N	31.3			14	
5/10	1/4	SKNF-5-4N	1.45	0.04	0.23	3/4	6	1/4	SKNF-6M-4N	35.8	15.2	10	19	
	1/8	SKNF-6-2N	1.29			5/8	0	3/8	SKNF-6M-6N	37.6	15.5	4.0	22	
	1/4	SKNF-6-4N	0.48			3/4		1/2	SKNF-6M-8N	42.5			27	
3/8	3/8	SKNF-6-6N	1.54	0.66	0.28	7/8		1/8	SKNF-8M-2N	32.1			15	
	1/2	SKNF-6-8N	1.73			1 1/16	0	1/4	SKNF-8M-4N	37.0	16.2	61	19	
	3/4	SKNF-6-12N	1.88			1 5/16	0	3/8	SKNF-8M-6N	38.5	10.2	0.4	22	
	1/4	SKNF-8-4N	1.59			13/16		1/2	SKNF-8M-8N	43.3			27	
1/2	3/8	SKNF-8-6N	1.65	0 00	0.41	7/8		1/4	SKNF-10M-4N	37.8			19	
1/2	1/2	SKNF-8-8N	1.84	0.50	0.41	1 1/16	10	3/8	SKNF-10M-6N	39.4	17.2	7.9	22	
	3/4	SKNF-8-12N	1.90			1 5/16		1/2	SKNF-10M-8N	44.2			27	
	3/8	SKNF-10-6N	1.65			15/16		1/4	SKNF-12M-4N	40.3			22	
5/8	1/2	SKNF-10-8N	1.84	0.96	0.50	1 1/16	12	3/8	SKNF-12M-6N	41.9	22.8	9.5	22	
	3/4	SKNF-10-12N	1.90			1 5/16		1/2	SKNF-12M-8N	46.7			27	
3/1	1/2	SKNF-12-8N	1.84	0.96	0.62	1 1/16	15	1/2	SKNF-15M-8N	46.7	24.4	11.9	27	
5/4	3/4	SKNF-12-12N	1.90	0.30	0.02	1 5/16	16	1/2	SKNF-16M-8N	46.9	24.4	12.7	27	
7/8	3/4	SKNF-14-12N	1.96	1.02	0.72	1 5/16	20	1/2	SKNF-20M-8N	47.9	26.0	15.0	30	
1	3/4	SKNF-16-12N	2.10	1 22	0.88	1 3/8	20	3/4	SKNF-20M-12N	49.7	20.0	13.9	35	
±	1	SKNF-16-16N	2.45	1.23	0.00	1 5/8	22	3/4	SKNF-22M-12N	49.7	26.0	18.2	35	
1 1/4	1 1/4	SKNF-20-20N	2.94	1.62	1.09	2 1/8	~~~	1	SKNF-22M-16N	57.9	20.0	10.2	41	
1 1/2	1 1/2	SKNF-24-24N	3.28	1.97	1.34	2 3/8	25	3/4	SKNF-25M-12N	53.4	21 2	21.9	35	
2	2	SKNF-32-32N	4.00	2.66	1.81	2 7/8	25	1	SKNF-25M-16N	62.3	51.5	21.0	41	

Tube Fittings

Female Connector ISO/BSP Tapered Thread ,(R ZG)

Tube		Basic	Dimensions		sions,in	
OD	130/ 03P	Number	L	D	S	F
1/8	1/8	SKNF-2-2RT	1.18	0.55	0.14	9/16
	1/8	SKNF-4-2RT	1.28			9/16
1/4	1/4	SKNF-4-4RT	1.46	0.65	0.24	3/4
1/4	3/8	SKNF-4-6RT	1.53	0.05	0.24	7/8
	1/2	SKNF-4-8RT	1.72			1 1/16
	1/4	SKNF-6-4RT	1.53			3/4
3/8	3/8	SKNF-6-6RT	1.59	0.71	0.33	7/8
	1/2	SKNF-6-8RT	1.78			1 1/16
	1/4	SKNF-8-4RT	1.64			13/16
1/2	3/8	SKNF-8-6RT	1.70	0.95	0.46	7/8
	1/2	SKNF-8-8RT	1.89			1 1/16
Tube		Basic		Dimensi	ons,mm	
OD	in.	Number	L	D S		F
3	1/8	SKNF-3M-2RT	29.2	13.4	2.9	14
	1/8	SKNF-6M-2RT	31.8			14
6	1/4	SKNF-6M-4RT	36.3	15.8	52	19
0	3/8	SKNF-6M-6RT	38.1	15.6	5.5	22
	1/2	SKNF-6M-8RT	43.0			27
	1/8	SKNF-8M-2RT	32.6			15
8	1/4	SKNF-8M-4RT	37.5	167	69	19
0	3/8	SKNF-8M-6RT	39.0	10.7	0.5	22
	1/2	SKNF-8M-8RT	43.8			27
	1/8	SKNF-10M-2RT	33.5			18
10	1/4	SKNF-10M-4RT	38.3	177	84	19
10	3/8	SKNF-10M-6RT	39.9	1	0.4	22
	1/2	SKNF-10M-8RT	44.7			27
	1/8	SKNF-12M-2RT	36.0		8.8	22
	1/4	SKNF-12M-4RT	40.8		10	22
12	3/8	SKNF-12M-6RT	42.4	23.3	10	22
	1/2	SKNF-12M-8RT	47.2		10	27
-	3/4	SKNF-12M-12RT	49.5		10	35
15	3/8	SKNF-15M-6RT	42.4	24.9	12.4	24
	1/2	SKNF-15M-8RT	47.2	2.110		27
20	1/2	SKNF-20M-8RT	48.4	26.5	16.4	30
	3/4	SKNF-20M-12RT	50.2		20.5 16.4	
22	3/4	SKNF-22M-12RT	50.2	26.5	18.8	35
	1	SKNF-22M-16RT	58.4			41
25	3/4	SKNF-25M-12RT	53.9	31.8	22.3	35
20	1	SKNF-25M-16RT	62.8	31.8	22.0	41

Female Connector ISO/BSP Parallel Thread ,(G)



Tube	Thread	Basic	Dimensions,in				
OD	size	Number	Ļ	D	S	F	
	1/4	SKNF-4-4G	1.53		0.23	3/4	
1/4	3/8	SKNF-4-6G	1.53	0.65	0.24	15/16	
	1/2	SKNF-4-8G	1.76		0.24	1 1/16	
5/16	1/4	SKNF-5-4G	1.56	0.60	0.27	3/4	
5/10	1/2	SKNF-5-8G	1.66	0.09	0.33	1 1/16	
	1/4	SKNF-6-4G	1.59		0.27	3/4	
3/8	3/8	SKNF-6-6G	1.57	0.72	0.31	15/16	
	1/2	SKNF-6-8G	1.70		0.33	1 1/16	
	1/4	SKNF-8-4G	1.70		0.27	13/16	
1/2	3/8	SKNF-8-6G	1.80	0.95	0.31	15/16	
	1/2	SKNF-8-8G	1.95		0.33	1 1/16	
			Dimensions.mm				
Tuhe	Thread	Basic		Dimensi	ions.mm		
Tube OD	Thread size in.	Basic Ordering Number	L	Dimensi D	ions,mm S	F	
Tube OD	Thread size in. 1/4	Basic Ordering Number SKNF-6M-4G	L 38.1	Dimensi D	ions,mm S	F 19	
Tube OD 6	Thread size in. 1/4 3/8	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G	L 38.1 38.1	Dimensi D 15.8	ions,mm S 5.3	F 19 24	
Tube OD 6	Thread size in. 1/4 3/8 1/2	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G	L 38.1 38.1 44.0	Dimensi D 15.8	ions,mm S 5.3	F 19 24 27	
Tube OD 6	Thread size _{in.} 1/4 3/8 1/2 1/4	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G SKNF-8M-4G	L 38.1 38.1 44.0 39.0	Dimensi D 15.8	ions,mm S 5.3 6.0	F 19 24 27 19	
Tube OD 6 8	Thread size _{in} . 1/4 3/8 1/2 1/4 3/8	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G SKNF-8M-4G SKNF-8M-6G	L 38.1 38.1 44.0 39.0 36.7	Dimensi D 15.8 16.7	ions,mm S 5.3 6.0 7.0	F 19 24 27 19 24	
Tube OD 6 8	Thread size _{in} . 1/4 3/8 1/2 1/4 3/8 1/2	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G SKNF-8M-4G SKNF-8M-6G	L 38.1 38.1 44.0 39.0 36.7 41.5	Dimensi D 15.8 16.7	ions,mm S 5.3 6.0 7.0 7.5	F 19 24 27 19 24 24 27	
Tube OD 6 8	Thread size in. 1/4 3/8 1/2 1/4 3/8 1/2 1/2 1/7	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G SKNF-8M-4G SKNF-8M-6G SKNF-8M-8G	L 38.1 38.1 44.0 39.0 36.7 41.5 39.9	Dimensi D 15.8 16.7	ions,mm S 5.3 6.0 7.5 6.0	F 19 24 27 19 24 24 27 27 19	
Tube OD 8 8	Thread size in. 1/4 3/8 1/2 1/4 3/8 1/2 1/2 1/7 3/8	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-8M-4G SKNF-8M-6G SKNF-8M-8G SKNF-10M-4G SKNF-10M-6G	L 38.1 38.1 44.0 39.0 36.7 41.5 39.9 39.3	Dimensi D 15.8 16.7 17.7	ions,mm S 5.3 6.0 7.5 6.0 7.0	F 19 24 27 19 24 27 27 19 19 24	
Tube OD 8 8	Thread size in. 1/4 3/8 1/2 1/4 3/8 1/2 1/7 3/8 1/2 1/2	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G SKNF-8M-4G SKNF-8M-6G SKNF-10M-4G SKNF-10M-6G	L 38.1 38.1 44.0 39.0 36.7 41.5 39.9 39.3 39.3	Dimensi D 15.8 16.7 17.7	ions,mm S 5.3 6.0 7.5 6.0 7.5 6.0 7.5	F 19 24 27 19 24 27 19 24 27 19 24 27	
Tube OD 8 10	Thread size in. 1/4 3/8 1/2 1/4 3/8 1/2 1/7 3/8 1/2 3/8 1/2 1/2	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G SKNF-8M-4G SKNF-8M-6G SKNF-8M-8G SKNF-10M-4G SKNF-10M-6G SKNF-10M-8G	L 38.1 38.1 44.0 39.0 36.7 41.5 39.9 39.9 39.3 42.6 42.4	Dimensi D 15.8 16.7 17.7	ions,mm S 5.3 6.0 7.5 6.0 7.5 6.0 7.5 6.0	F 19 24 27 19 24 27 19 24 27 19 24 27 22	
Tube OD 8 8 10	Thread size in. 1/4 3/8 1/2 1/4 3/8 1/2 1/7 3/8 1/2 1/2 1/2 3/8 3/8	Basic Ordering Number SKNF-6M-4G SKNF-6M-6G SKNF-6M-8G SKNF-8M-4G SKNF-8M-6G SKNF-8M-8G SKNF-10M-4G SKNF-10M-6G SKNF-12M-6G SKNF-12M-6G	L 38.1 38.1 44.0 39.0 36.7 41.5 39.9 39.3 39.3 42.6 42.4 42.4	Dimensi D 15.8 16.7 17.7	ons,mm S 5.3 6.0 7.5 6.0 7.5 6.0 7.5 6.0 7.5 6.0	F 19 24 27 19 24 27 19 24 27 19 24 27 22 22 22	

HAL-LOK



Tube OD		Basic	Dimensions,mm			
T (mm)	Tx (in)	Ordering Number	L	D	S	F
2	1/8	SKG-3M-2	33.5	12.0	2.0	10
3	1/4	SKG-3M-4	36.1	12.9	2.4	12
4	1/4	SKG-4M-4	37.1	13.7	2.4	12
	1/8	SKG-6M-2	36.9		2.0	
	1/4	SKG-6M-4	39.2		4.4	
6	5/16	SKG-6M-5	40.0	15.3	4.8	14
	3/8	SKG-6M-6	40.7		4.8	
	1/2	SKG-6M-8	46.3		4.8	
	1/4	SKG-8M-4	40.3	16.2	4.4	15
8	3/8	SKG-8M-6	42.0		6.4	
	1/2	SKG-8M-8	47.6		6.4	
10	3/8	SKG-10M-6	44.2	17.2	6.8	10
10	1/2	SKG-10M-8	49.8	17.2	7.9	10
12	1/2	SKG-12M-8	52.3	22.9	9.3	22
12	3/4	SKG-12M-12	53.8	22.0	9.5	22
10	3/4	SKG-18M-12	56.1	24.4	14.7	27
10	1	SKG-18M-16	62.4	24.4	15.1	21
25	1	SKG-25M-16	69.5	31.3	20.2	35

Tube OD	Basic Ordering	Dimensions,mm				
T Tx in. in.	Number	L	D	S	F	
1/8	SKG-2	33.5	12.9	2.0	12	
1/4	SKG-4	39.2	15.3	4.4	14	
3/8	SKG-6	42.0	16.2	6.4	15	
1/2	SKG-8	52.3	22.8	9.3	18	
3/4	SKG-12	56.1	24.4	14.7	27	
1	SKG-16	69.5	31.3	20.2	35	

Tube OD		Basic	Dimensions,in.			
T (in)	Tx(mm)	Number	L	D	S	F
1/8	6	SKG-2-6M	1.42	0.50	0.09	7/16



Bulkhead Reducers



T 1 0 D	Basic	Dimensions,in.					
lube OD (in)	Ordering Number	L	D	S	F	Panel Hole Size	Max Panel Thickness
1/8	CBSKLG-2	1.95	0.50	0.08	1/2	21/64	0.50
1/4	CBSKLG-4	2.20	0.60	0.17	5/8	29/64	0.40
3/8	CBSKLG-6	2.41	0.66	0.27	3/7	37/64	0.44
1/2	CBSKLG-8	2.87	0.90	0.37	15/16	49/64	0.50
5/8	CBSKLG-10	2.96	0.96	0.47	1 1/16	57/64	0.50
3/4	CBSKLG-12	3.21	0.96	0.58	1 3/16	1 1/64	0.66
1	CBSKLG-16	3.95	1.23	0.80	1 5/8	1 21/64	0.75

Tube Fittings







over 1 in./25 mm

	Basic	Dimensions,in.		
	Number	E	Н	
1/16	KAG-1	0.08	0.59	
1/8	KAG-2	0.13	0.93	
1/4	KAG-4	0.22	1.03	
5/16	KAG-5	0.27	1.07	
3/8	KAG-6	0.32	1.10	
1/2	KAG-8	0.42	1.48	
5/8	KAG-10	0.52	1.54	
3/4	KAG-12	0.63	1.54	
1	KAG-16	0.85	1.99	
1 1/4	KAG-20	1.07	2.77	
1 1/2	KAG-24	1.30	3.36	
2	KAG-32	1.77	4.61	

	Basic	Dimensions,mm		
Tube OD	Number	E		
3	KAG-3M	2.4	22.70	
6	KAG-6M	4.6	25.50	
8	KAG-8M	6.1	26.50	
10	KAG-10M	7.6	27.60	
12	KAG-12M	9.3	36.70	
15	KAG-15M	11.7	38.30	
16	KAG-16M	12.5	38.30	
18	KAG-18M	14.4	38.30	
20	KAG-20M	16.0	39.90	
25	KAG-25M	20.4	49.80	
28	KAG-28M	23.0	64.00	
30	KAG-30M	24.8	68.10	
32	KAG-32M	27.0	70.20	
38	KAG-38M	32.1	82.40	



Dimensions, in.

Tube OD	Basic Ordering Number	L	D
1/8	GM-2	0.84	0.55
3/16	GM-3	0.89	0.59
1/4	GM-4	0.97	0.65
5/16	GM-5	1.01	0.69
3/8	GM-6	1.06	0.71
1/2	GM-8	1.20	0.95
5/8	GM-10	1.23	1.01
3/4	GM-12	1.29	1.01

Dimens	ions,mm			Dimensio) [
Tube OD	Basic Ordering Number	L	D	Tube OD	
2	GM-2M	20.6	13.4	1/8	
3	GM-3M	20.6	13.4	3/16	
4	GM-4M	21.8	14.2	1/4	
6	GM-6M	23.6	15.8	5/16	
8	GM-8M	25.0	16.7	3/8	
10	GM-10M	27.1	17.7	1/2	-
12	GM-12M	29.6	23.3	5/8	-
14	GM-14M	30.4	24.9	3/4	
15	GM-15M	30.4	24.9	7/0	
16	GM-16M	30.4	24.9	1/0	_
18	GM-18M	31.9	24.9	1	
20	GM-20M	34.5	26.5	1 1/4	
22	GM-22M	34.5	26.5	1 1/2	
25	GM-25M	39.0	31.8	2	
28	GM-28M	49.0	37.1		
30	GM-30M	53.9	40.1		
32	GM-32M	56.3	42.5		
38	GM-38M	65.9	49.9		



Dimensions, in.

Tube OD	Basic Ordering Number	-
1/8	DS-2	
3/16	DS-3	
1/4	DS-4	
5/16	DS-5	
3/8	DS-6	
1/2	DS-8	
5/8	DS-10	

Dimensions,mm

Basic Ordering Number	Tube OD	Basic Ordering Number
DS-2	2	DS-2M
DS-3	3	DS-3M
DS-4	4	DS-4M
DS-5	6	DS-6M
	8	DS-8M
DS-6	10	DS-10M
DS-8	12	DS-12M
DS-10	15	DS-15M
DS-12	16	DS-16M
DS-14	18	DS-18M
DS-16	20	DS-20M
DS-20	22	DS-22M
	25	DS-25M
DS-24	28	DS-28M
DS-32	30	DS-30M
	32	DS-32M
	38	DS-38M

7/8	GM-14	1.39	1.07	
1	GM-16	1.56	1.28	2
1 1/8	GM-18	1.55	1.28	
1 1/4	GM-20	2.15	1.67	
1 1/2	GM-24	2.59	2.02	-
2	GM-32	3.46	2.71	

HAL-LOK





Tube	NIPT	Basic Ordering	Dimensions,in.						
OD		Number	L	D	S	F			
1//	1/8	SKT4-4-2	1 02	0.65	0.24	1/2			
1/4	1/4	SKT4-4-4	1.02	0.05	0.24	1/2			
	1/8	SKT4-6-2	1.15		0.24	5/8			
3/8	1/4	SKT4-6-4	1.15	0.71	0.33	5/8			
	3/8	SKT4-6-6	1.20		0.33	13/16			
1/2	3/8	SKT4-8-6	1 21	0.05	0.43	12/16			
1/2	1/2	SKT4-8-8	1.31	0.95	0.46	13/10			
3/4	3/4	SKT4-12-12	1.38	1.01	0.67	1 1/16			
1	1	SKT4-16-16	1.64	1.28	0.93	1 3/8			



90 ° Union Elbows

Tube	Basic		Dime	nsions,	in.
OD	Number	L	D	S	F
1/8	SKTE-2	0.93	0.55	0.14	3/8
3/16	SKTE-3	1.05	0.59	0.17	1/2
1/4	SKTE-4	1.11	0.65	0.24	1/2
5/16	SKTE-5	1.18	0.69	0.30	9/16
3/8	SKTE-6	1.25	0.71	0.33	5/8
1/2	SKTE-8	1.47	0.95	0.46	13/16
5/8	SKTE-10	1.55	1.01	0.55	15/16
3/4	SKTE-12	1.62	1.01	0.67	1 1/16
7/8	SKTE-14	1.81	1.07	0.77	1 3/8
1	SKTE-16	1.98	1.28	0.93	1 3/8
1 1/8	SKTE-18	2.22	1.28	1.02	1 11/16
1 1/4	SKTE-20	2.72	1.67	1.14	1 11/16
1 1/2	SKTE-24	3.15	2.02	1.39	2
2	SKTE-32	4.27	2.71	1.86	2 3/4

Tube	Basic	Dimensions,mm							
OD	Number	L	D	S	II.				
3	SKTE-3M	22.8	13.4	2.9	3/8				
4	SKTE-4M	25.9	14.2	2.9	1/2				
6	SKTE-6M	27.5	15.8	5.3	1/2				
8	SKTE-8M	29.3	16.7	6.9	9/16				
10	SKTE-10M	32.0	17.7	8.4	11/16				
12	SKTE-12M	36.5	23.3	10.0	13/16				
14	SKTE-14M	38.5	24.9	11.6	15/16				
15	SKTE-15M	38.5	24.9	12.4	15/16				
16	SKTE-16M	38.5	24.9	13.2	15/16				
18	SKTE-18M	40.3	24.9	15.6	1 1/16				
20	SKTE-20M	45.1	26.5	16.4	1 3/8				
22	SKTE-22M	45.1	26.5	18.8	1 3/8				
25	SKTE-25M	49.6	31.8	22.3	1 3/8				
28	SKTE-28M	64.5	37.1	22.3	41mm				
30	SKTE-30M	70.4	40.1	26.7	46mm				
32	SKTE-32M	72.8	24.5	29.1	46mm				
38	SKTE-38M	84.5	49.9	34.2	55mm				
60	SKTE-60M	106.5	65.5	45.7	2 3/4				



Tube Fittings

Weld Elbow



Tube	Socket	Basic Ordering	Dimensions,in.									
OD	Size	Number	L	В	D	S	F	K				
1/4	1/4	SKY-4W	1.11	0.33	0.65	0.24	1/2	0.55				
3/8	3/8	SKY-6W	1.25	0.36	0.71	0.33	5/8	0.68				
1/2	1/2	SKY-8W	1.47	0.43	0.95	0.46	13/16	0.86				
3/4	3/4	SKY-12W	1.62	0.49	1.01	0.67	1 1/16	1.11				
1	1	SKY-16W	1.98	0.67	1.28	0.93	1 3/8	1.43				

Male Pipe Weld



Tube	Pipe	Basic	Dimensions,in.									
OD	Size	Number	L	D	S	F	J					
1//	1/8	SKG-4-2T	1 1 1	0.65	0.24	1/2	0.410					
1/4	1/4	SKG-4-4T	1.11	0.05	0.24	1/2	0.545					
3/8	1/4	SKG-6-4T	1.25	0.71	0.33	5/8	0.545					
1/2	1/2	SKG-8-8T	1.47	0.95	0.46	13/16	0.845					
3/4	3/4	SKG-12-12T	1.62	1.01	0.67	1 1/16	1.055					

NOTE: If ordering R threads, add RT to the ordering number.



Example:SKTF-2-2RT					Tubo		Basic	Dimensions,in			s.in.				
	E	xample:SKTF-	6M-2	RT			OD	NPT	Ordering Number	L	D	S	F		
							4.10	1/8	SKTF- 2-2N	1.02	0.55	0.4.4	1/2		
		Female Elbo	WC				1/8	1/4	SKTF- 2-4N	1.13	0.55	0.14	11/16		
							3/16	1/8	SKTF- 3-2N	1.05	0.59	0.17	1/2		
		c F	−F f	at				1/8	SKTF- 4-2N	1.11			1/2		
		[1/4	1/4	SKTF- 4-4N	1.22	0.05	0.24	11/16					
							1/4	3/8	SKTF- 4-6N	1.30	0.05	0.24	13/16		
								1/2	SKTF- 4-8N	1.41			1		
							E/16	1/8	SKTF- 5-2N	1.18	0.60	0.20	9/16		
								1/4	SKTF- 5-4N	1.24	0.69	0.30	11/16		
		<l→< td=""><td></td><td></td><td></td><td>1/8</td><td>SKTF- 6-2N</td><td>1.25</td><td></td><td></td><td>5/8</td></l→<>				1/8	SKTF- 6-2N	1.25			5/8				
							2/0	1/4	SKTF- 6-4N	1.28	0.71	0.33	11/16		
		Basic	П	imons	ione r	nm	3/0	3/8	SKTF- 6-6N	1.35	0.71	0.33	13/16		
	NPT	Ordering						1/2	SKTF- 6-8N	1.47			1		
	1 (0	Number		U	2	F		1/4	SKTF- 8-4N	1.47			13/16		
	1/8	SKIF-6MI-ZN	27.5	45.0		1/2	1/2	3/8	SKTF- 8-6N	1.47	0.95	0.46	13/16		
6	1/4	SKIF-6M-4N	30.3	15.8	5.3	11/16		1/2	SKTF- 8-8N	1.58			1		
	1/2	SKTF-6M-8N	35.1			1	E /0	3/8	SKTF-10-6N	1.55	1 01	0.55	15/16		
8	1/4	SKTF-8M-4N	31.1	16.7	6.9	11/16	5/6	1/2	SKTF-10-8N	1.62	1.01	0.55	1 1/16		
10	1/2	SKTF-10M-8N	32.0	177	84	11/16	2/4	1/2	SKTF-12-8N	1.62	1 01	0.67	1 1/16		
10	1/4	SKTF-10M-4N	34.0	±1.1	0.4	13/16	3/4	3/4	SKTF-12-12N	1.81	1.01	0.67	1 3/8		
12	1/4	SKTF-12M-4N	36.5	22.2	10.0	13/16	7/8	3/4	SKTF-14-12N	1.81	1.07	0.77	1 3/8		
12	1/2	SKTF-12M-8N	39.3	23.3	10.0	1	1			3/4	SKTF-16-12N	1.98	1 20	0.02	1 3/8
16	1/2	SKTF-16M-8N	40.0	24.9	13.2	11/16		1	SKTF-16-16N	2.16	1.28	28 0.93	1 11/16		





NOTE: If ordering R threads, add RT to the ordering number. Example:SKTN-1-1RT

Tube	NDT	Basic	Dimensions,in.						
OD		Number	Α	D	Ξ	F			
1/16	1/16	SKTN-1-1N	0.90	0.20	0.10	7/16			
1/10	1/8	SKTN-1-2N	0.80	0.39	0.10	//10			
	1/16	SKTN-2-1N	0.98			7/16			
1/8	1/8	SKTN-2-2N	0.98	0.55	0.14	7/16			
	1/4	SKTN-2-4N	1.02			1/2			
2/16	1/8	SKTN-3-2N	1.05	0.50	0.17	1/2			
5/10	1/4	SKTN-3-4N	1.05	0.59	0.17	1/2			
	1/16	SKTN-4-1N	1.11		0.17	1/2			
	1/8	SKTN-4-2N	1.11		0.24	1/2			
1/4	1/4	SKTN-4-4N	1.11	0.65	0.24	1/2			
	3/8	SKTN-4-6N	1.22		0.24	11/16			
	1/2	SKTN-4-8N	1.30		0.24	13/16			
	1/8	SKTN-5-2N	1.18		0.24	9/16			
5/16	1/4	SKTN-5-4N	1.18	0.69	0.30	9/16			
	3/8	SKTN-5-6N	1.23		0.30	11/16			
	1/8	SKTN-6-2N	1.23		0.24	5/8			
	1/4	SKTN-6-4N	1.23		0.33	5/8			
3/8	3/8	SKTN-6-6N	1.28	0.71	0.33	11/16			
	1/2	SKTN-6-8N	1.36		0.33	13/16			
	3/4	SKTN-6-12N	1.51		0.33	1 1/16			
	1/4	SKTN-8-4N	1.47		0.33	13/16			
1/2	3/8	SKTN-8-6N	1.47	0.05	0.43	13/16			
1/2	1/2	SKTN-8-8N	1.47	0.95	0.46	13/16			
	3/4	SKTN-8-12N	1.62		0.46	1 1/16			
	3/8	SKTN-10-6N	1.55		0.43	15/16			
5/8	1/2	SKTN-10-8N	1.55	1.01	0.52	15/16			

Example:SKTN-3M-2RT

Tube		Basic Dimensions,mm						
OD	in.	Number	А	D	E	F, in		
2	1/8	SKTN-3M-2N	24.1	12.4	2.0	7/16		
3	1/4	SKTN-3M-4N	25.1	13.4	2.9	1/2		
4	1/8	SKTN-4M-2N	25.0	14.2	2.0	1/2		
4	1/4	SKTN-4M-4N	25.9	14.2	2.9	1/2		
	1/8	SKTN-6M-2N	27.5			1/2		
6	1/4	SKTN-6M-4N	27.5	15.0	5.2	1/2		
0	3/8	SKTN-6M-6N	30.3	15.0	5.5	11/16		
	1/2	SKTN-6M-8N	32.3			13/16		
	1/8	SKTN-8M-2N	29.3		5.3	9/16		
0	1/4	SKTN-8M-4N	29.3	167	6.9	9/16		
0	3/8	SKTN-8M-6N	31.1	10.7	6.9	11/16		
	1/2	SKTN-8M-8N	33.1		6.9	13/16		
	1/8	SKTN-10M-2N	32.0		5.3	11/16		
10	1/4	SKTN-10M-4N	32.0	177	7.6	11/16		
10	3/8	SKTN-10M-6N	32.0	17.7	8.4	11/16		
	1/2	SKTN-10M-8N	34.0		8.4	13/16		
	1/4	SKTN-12M-4N	36.5		7.6	13/16		
12	3/8	SKTN-12M-6N	36.5	22.2	10.0	13/16		
12	1/2	SKTN-12M-8N	36.5	23.3	10.0	13/16		
	3/4	SKTN-12M-10N	40.3		10.0	1 1/16		
15	1/2	SKTN-15M-8N	38.5	24.9	12.4	15/16		
	3/8	SKTN-16M-6N	38.5		10.0	15/16		
16	1/2	SKTN-16M-8N	38.5	24.9	12.4	15/16		
	3/4	SKTN-16M-12N	40.3		13.2	1 1/16		
10	1/2	SKTN-18M-8N	10.2	24.0	12.4	1 1/16		
10	3/4	SKTN-18M-12N	40.5	24.9	15.6	T T/TO		

		2/4	CKTNI 10 12NI	1.60		0 EE	1 1/16		3/4	SKIN-1001-121			13.0	-
		3/4	5K1N-10-12N	1.62		0.55	1 1/10	4	1/2	SKTN-20M-8N			12.4	
	2/4	1/2	SKTN-12-8N	1.62	0.01	0.52	1 1/16	20	3/4	SKTN-20M-12N	45.1	26.5	15.6	1 3/8
	7 /4	3/4	SKTN-12-12N	1.02	0.01	0.67	1 1/10		3/4	SKTN-22M-12N			15.6	
7	7/8	3/4	SKTN-14-12 N	1.81	0.07	0.67	1 3/8	22	1	SKTN-22M-16N	45.1	26.5	18.8	1 3/8
	1	3/4	SKTN-16-12N	1 08	1 28	0.67	1 3/8	05	3/4	SKTN-25M-12N	40.0		16.4	4 0 10
	T	1	SKTN-16-16N	1.50	1.20	0.93	1 3/0	25	1	SKTN-25M-16N	49.6	31.8	22.3	1 3/8
1	1/4	1 1/4	SKTN-20-20N	2.72	1.67	1.14	1 11/16	30	1 1/4	SKTN-30M-20N	70.4	40.1	26.7	1 11/16
1	1/2	1 1/2	SKTN-24-24 N	3.15	2.02	1.39	2	32	1 1/4	SKTN-32M-20N	72.8	42.5	28.3	2
	2	2	SKTN-32-32 N	4.27	2.71	0.86	2 3/4	38	1 1/2	SKTN-38M-24N	84.5	49.9	34.2	2 3/4



Tube Fittings



Male Elbow

ISO/BSP Tapered Thread

Tube	ISO Throad	Basic	Dir	nensio	ns,in.		Tube	ISO Thread	Basic Ordering		Dimensions,mm			
	nieau	ordening					Sizo in	Numbor	Δ	D		E in		

00	Size	Number	A	U	-	F		5120 111	Number	<u> </u>		()	. ,
1/16	1/16	SKTG-1-1G	0.90	0.20	0.10	7/16	3	1/8	SKTG-3M-2G	24.1	13.4	2.9	7/16
1/10	1/8	SKTG-1-2G	0.80	0.39	0.10	//10		1/4	SKTG-3M-4G	25.1	2011		1/2
	1/16	SKTG-2-1G	0.98			7/16	4	1/8	SKTG-4M-2G	25.9	14.2	2.9	1/2
1/8	1/8	SKTG-2-2G	0.98	0.55	0.14	7/16		1/4	SKIG-4M-4G	07.5			1/0
	1/4	SKTG-2-4G	1.02			1/2		1/8	SKIG-6M-2G	27.5			1/2
2/10	1/8	SKTG-3-2G	1.05	0.50	0.17	1/0	6	2/9	SKTG-6M-6C	21.5	15.8	5.3	11/16
3/16	1/4	SKTG-3-3G	1.05	0.59	0.17	1/2		1/2	SKTG-6M-8G	32.3			13/16
	1/16	SKTG-4-1G	1.11		0.17	1/2		1/8	SKTG-8M-2G	29.3		5.3	9/16
	1/8	SKTG-4-2G	1.11		0.24	1/2		1/4	SKTG-8M-4G	29.3		6.9	9/16
1/4	1/4	SKTG-4-4G	1.11	0.65	0.24	1/2	8	3/8	SKTG-8M-6G	31.1	16.7	6.9	11/16
	3/8	SKTG-4-6G	1.22		0.24	11/16		1/2	SKTG-8M-8G	33.1		6.9	13/16
	1/2	SKTG-4-8G	1.30		0.24	13/16		1/8	SKTG-10M-2G	32.0		5.3	11/16
-	1/8	SKTG-5-2G	1.18		0.24	9/16	10	1/4	SKTG-10M-4G	32.0	177	7.6	11/16
5/16	1/4	SKTG-5-4G	1.18	0.69	0.30	9/16		3/8	SKTG-10M-6G	32.0	17.7	8.4	11/16
	3/8	SKTG-5-6G	1.23		0.30	11/16		1/2	SKTG-10M-8G	34.0		8.4	13/16
	1/8	SKTG-6-2G	1.23		0.24	5/8		1/4	SKTG-12M-4G	36.5		7.6	13/16
	1/4	SKTG-6-4G	1.23		0.33	5/8	12	3/8	SKTG-12M-6G	36.5	23.3	10.0	13/16
3/8	3/8	SKTG-6-6G	1.28	0.71	0.33	11/16		1/2	SKTG-12M-8G	36.5		10.0	13/16
	1/2	SKTG-6-8G	1.36		0.33	13/16	45	3/4	SKTG-12M-12G	40.3	04.0	10.0	1 1/16
	3/4	SKTG-6-12G	1.51		0.33	1 1/16	15	1/2	SKIG-15M-8G	38.5	24.9	12.4	15/16
	1/4	SKTG-8-4G	1.47		0.33	13/16	16	3/8	SKTG-1010-0G	38.5	24.0	12.0	15/10
	3/8	SKTG-8-6G	1.47		0.43	13/16		3/4	SKTG-16M-12G	40.3	24.5	13.2	1 1/16
1/2	1/2	SKTG-8-8G	1.47	0.95	0.46	13/16		1/2	SKTG-18M-8G	40.0		12.4	1 1/10
	3/4	SKTG-8-12G	1.62		0.46	1 1/16	18	3/4	SKTG-18M-12G	40.3	24.9	15.6	1 1/16
	3/8	SKTG-10-6G	1.55		0.43	15/16		1/2	SKTG-20M-8G	45.4	00 5	12.4	4.0/0
5/8	1/2	SKTG-10-8G	1.55	1.01	0.52	15/16	20	3/4	SKTG-20M-12G	45.1	26.5	15.6	1 3/8
	3/4	SKTG-10-12G	1.62		0.55	1 1/16	22	3/4	SKTG-22M-12G	45.1	26.5	15.6	1 2/9
	1/2	SKTG-12-8G	4.00	0.04	0.52		~~~	1	SKTG-22M-16G	45.1	20.5	18.8	1 3/0
3/4	3/4	SKTG-12-12G	1.62	0.01	0.67	1 1/16	25	3/4	SKTG-25M-12G	49.6	31.8	16.4	1 3/8
7/8	3/4	SKTG-14-12G	1.81	0.07	0.67	1 3/8		1	SKTG-25M-16G	10.0	01.0	22.3	- 0,0
	3/4	SKTG-16-12G	4.00	4.00	0.67		30	1 1/4	SKTG-30M-20G	70.4	40.1	26.7	1 11/16
1	1	SKTG-16-16G	1.98	1.28	0.93	1 3/8	32	1 1/4	SKTG-32M-20G	72.8	42.5	28.3	2
1 1/4	1 1/4	SKTG-20-20G	2.72	1.67	1.14	1 11/16	- 38	1 1/2	SK I G-38M-24G	84.5	49.9	34.2	2 3/4
1 1/2	1 1/2	SKTG-24-24G	3.15	2.02	1.39	2							
2	2	SKTG-32-32G	4.27	2.71	0.86	2 3/4							

HAL-LOK



Tube	Basic		Di	mensic	ns,in.	
OD	Number	Ľ.	Lx	D	Ε	
1/8	SKTT-2	1.76	0.88	0.50	0.09	3/8
3/16	SKTT-3	1.92	0.96	0.54	0.12	7/16
1/4	SKTT-4	2.12	1.06	0.60	0.19	1/2
5/16	SKTT-5	2.34	1.17	0.64	0.25	5/8
3/8	SKTT-6	2.40	1.20	0.66	0.28	5/8
1/2	SKTT-8	2.84	1.42	0.90	0.41	13/16
5/8	SKTT-10	3.06	1.53	0.96	0.50	1
3/4	SKTT-12	3.14	1.57	0.96	0.62	1 1/16
7/8	SKTT-14	3.52	1.76	1.02	0.72	1 3/8
1	SKTT-16	3.86	1.93	1.23	0.88	1 3/8
1 1/8	SKTT-18	4.34	2.17	1.23	0.97	1 11/16
1 1/4	SKTT-20	5.34	2.67	1.62	1.09	1 11/16
1 1/2	SKTT-24	6.20	3.10	1.97	1.34	2
2	SKTT-32	8.44	4.22	2.66	1.81	2 3/4

Union Tee

Tube	Basic		Dime	ension	s,mm	
OD	Number	L	Lx	D	E	F
2	SKTT-2M	44.7	22.3	12.9	1.7	3/8
3	SKTT-3M	44.7	22.3	12.9	2.4	3/8
4	SKTT-4M	50.8	25.4	13.7	2.4	1/2
6	SKTT-6M	53.9	27.0	15.3	4.8	1/2
8	SKTT-8M	59.7	29.9	16.2	6.4	5/8
10	SKTT-10M	63.0	31.5	17.2	7.9	11/16
12	SKTT-12M	72.0	36.0	22.8	9.5	13/16
14	SKTT-14M	77.6	38.8	24.4	11.1	1
15	SKTT-15M	77.6	38.8	24.4	11.9	1
16	SKTT-16M	77.6	38.8	24.4	12.7	1
18	SKTT-18M	79.6	39.8	24.4	15.1	1 1/16
20	SKTT-20M	89.3	44.6	26.0	15.9	1 3/8
22	SKTT-22M	89.3	44.6	26.0	18.3	1 3/8
25	SKTT-25M	98.3	49.1	31.1	21.8	1 3/8
28	SKTT-28M	128.0	64.0	36.6	21.8	41mm
30	SKTT-30M	140.0	69.9	39.6	26.2	46mm
32	SKTT-32M	145.0	72.3	42.0	28.6	46mm
38	SKTT-38M	168.0	84.0	49.4	33.7	55mm
50	SKTT-50M	211.0	106.0	65.0	45.2	2 3/4



Tub	e OD	Basic			Dimens	ions,in.		
T (in)	Tx (in)	Number	Α	Ax	D	Dx	E	F
3/8	1/4	SKTT-6-4-6	2.40	1.14	0.66	0.60	0.19	5/8
1/2	1/4	SKTT-8-4-8	201	1.25	0.00	0.60	0.19	12/16
1/2	3/8	SKTT-8-6-8	2.04	1.31	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13/10		
5/8	3/8	SKTT-10-6-10	3.06	1.42	0.96	0.66	0.28	1
2//	3/8	SKTT-12-6-12	214	1.46	0.06	0.66	0.28	1 1/16
3/4	1/2	SKTT-12-8-12	3.14	1.57	0.90	0.96 0.90 0	E 0.19 0.28 0.28 0.28 0.28 0.41 0.41 0.28 0.41 0.28 0.88 0.88 0.88	1 1/10
	3/8	SKTT-16-6-16		1.65		0.66	0.28	
1	1/2	SKTT-16-8-16	3.86	1.76	1.23	0.90	0.41	1 3/8
	3/4	SKTT-16-12-16		1.76		0.96	0.62	
1 1/4	1	SKTT-20-16-20	5.34	2.17	1.62	1.23	0.88	1 11/16
1 1/2	1	SKTT-24-16-24	6.20	2.36	1.97	1.23	0.88	2
2	1	SKTT-32-16-32	8.44	2.79	2.66	1.23	0.88	2 3/4

NOTE: Dimensions subject to change, to be used for reference only.For detailed parameters, please consult HAL technical support.

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Tube Fittings



Tube	e OD	Basic			Dimen	sions,mm		
T (mm)	Tx (mm)	Number	А	Ax	D	Dx	E	F
3		SKTT-3M-6M-3M	49.3	26.9	12.9		2.4	1/2
8	6	SKTT-8M-6M-8M	59.9	29.0	16.2	15.3	4.8	5/8
10		SKTT-10M-6M-10M	63.0	29.7	17.2	15.5	4.8	11/16
12		SKTT-12M-6M-12M	72.0	31.8	22.8		4.8	13/16
15		SKTT-15M-12M-15M	77.7	38.9	24.4			1
16		SKTT-16M-12M-16M	77.6	38.9	24.4			1

flat

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18	12	SKTT-18M-12M-18M	79.8	39.9	24.4	22.8	9.5	1 1/16
22		SKTT-22M-12M-22M	89.4	44.7	26.0			1 3/8
25		SKTT-25M-12M-25M	98.0	44.7	31.3			1 3/8



Tube	e OD	Basic Ordering				Dimension	s,in.		
T (in)	Tx (in)	Number	Α	Ax	Ау	D	Dx		F
3/8	1/4	SKTT-6-6-4	2.34	1.20	1.14	0.66	0.60	0.19	5/8



Tube OD		Basic	Dimensions,in.						
T (in)	Tx (in)	Number	А	Ax	Ay	D	Dx	E	F
1/2		SKTT-8-6-6	2.73	1.42	1.31	0.90			13/16
5/8	3/8	SKTT-10-6-6	2.95	1.53	1.42	0.96	0.66	0.28	1
3/4	3/8	SKTT-12-6-6	3.03	1.57	1.46	0.96			1 1/16

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HAL-LOK

	Tube	NIPT	Basic Ordering		Di	mensions	,in.	
Male Branch Lee	OD		Number	L	D	S	F	Н
	1 /9	1/8	SKNT-2-2N-2	1.91	0.55	0.14	7/16	0.75
	1/0	1/4	SKNT-2-4N-2	1.99	0.55	0.14	1/2	0.97
S	3/16	1/8	SKNT-3-2N-3	1.97	0.59	0.17	7/16	0.75
Lutines.	1/4	1/8	SKNT-4-2N-4	2 1 7	0.65	0.24	1/2	0.79
	1/4	1/4	SKNT-4-4N-4	2.17	0.65	0.24	1/2	0.97
	5/16	1/8	SKNT-5-2N-5	2.39	0.69	0.24	5/8	0.87
$-D \rightarrow \downarrow $	2/9	1/4	SKNT-6-4N-6	2.45	0.71	0.22	5/8	1.05
	3/0	3/8	SKNT-6-6N-6	2.67	0.71	0.33	13/16	1.16
	1/2	3/8	SKNT-8-6N-8	2 90	0.05	0.43	12/16	1.16
	1/2	1/2	SKNT-8-8N-8	2.09	0.95	0.46	13/10	1.35
	5/8	1/2	SKNT-10-8N-10	3.11	1.01	0.52	1	1.46
	3/4	3/4	SKNT-12-12N-12	3.19	1.01	0.67	1 1/16	1.45

Tube	NPT	Basic	Dimensions,mm							
OD	in.	Number	L	D	S	F	H			
6	1/8	SKNT-6M-2N-6M	54.4	15.9	5.3	1/2	19.3			
0	1/4	SKNT-6M-4N-6M	54.4	13.0		1/2	23.9			
8	1/8	SKNT-8M-2N-8M	60.2	16.7	5.3	E /9	21.3			
	1/4	SKNT-8M-4N-8M	00.2	10.7	6.9	5/0	25.9			
10	1/4	SKNT-10M-4N-10M	67.5	17.7	7.6	13/16	26.7			
	3/8	SKNT-12M-6N-12M			10.0		28.7			
12	1/4	SKNT-12M-4N-12M	72.5	23.3	7.6	13/16	28.7			
	1/2	SKNT-12M-8N-12M		Ē	10.0		33.5			
16	1/2	SKNT-16M-8N-16M	78.1	24.9	12.4	1	36.3			

NOTE: If ordering R threads, add RT to the ordering number. Example:SKNT-2-2RT-2 Example:SKNT-2-2-2RT

Tube	NIDT	Basic	Dimensions, in.						
OD		Number	L	Lx	D	S	F		
1 /0	1/8	SKNJ-2-2-2N	1.68	0.98	0.55	0.14	7/16		
1/0	1/4	SKNJ-2-2-4N	1.94	1.02	0.55	0.14	1/2		
3/16	1/8	SKNJ-3-3-2N	1.71	1.01	0.59	0.17	7/16		
1/4	1/8	SKNJ-4-4-2N	1.85	1 1 1	0.65	0.24	1/2		
1/4	1/4	SKNJ-4-4-4N	2.03		0.65	0.24	1/2		
5/16	1/8	SKNJ-5-5-2N	2.04	1.22	0.69	0.24	5/8		
2/0	1/4	SKNJ-6-6-4N	2.25	1.25	0.71	0.22	5/8		
3/0	3/8	SKNJ-6-6-6N	2.47	1.36	0.71	0.33	13/16		
1/2	3/8	SKNJ-8-8-6N	2.58	1 47	0.05	0.43	12/16		
	1/2	SKNJ-8-8-8N	2.77	1.47	0.95	0.46	13/10		
5/8	1/2	SKNJ-10-10-8N	2.93	1.55	1.01	0.52	15/16		
3/4	3/4	SKNJ-12-12-12N	3.07	1.62	1.01	0.67	1 1/16		
Tube	NDT	Basic		Din	nensions,n	nm			
OD	in.	Number	L	Lx	D	S	F		
6	1/8	SKNJ-6M-6M-2N	46.3	27.5	15.9	5.2	1/2		
0	1/4	SKNJ-6M-6M-4N	50.8	27.5	15.0	5.5	1/2		
8	1/4	SKNJ-8M-8M-4N	55.8	30.4	16.7	6.9	5/8		
12	1/4	SKNJ-12M-12M-4N	64.7	26 E	22.2	7.6	12/16		
12	1/2	SKNJ-12M-12M-8N	69.5	30.5	23.3	10.0	13/10		
16	1/2	SKNJ-16M-16M-8N	73.6	38.5	24.9	12.4	15/16		



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Male Run Tee



Tube Fittings



	Tube	ISO Throad	Basic			Dim	ensions,i	n.		
2	OD	Size in	. Number	L	Lx	D	S	F	Fx	U
ſ	1 / 4	1/8	SKTR-4-4-2G	2.15	1.11	0.65	0.21	1/2	9/16	0.65
	1/4	1/4	SKTR-4-4-4G	2.46	1.19	0.05	0.24	5/8	3/4	0.85
ſ	3/8	1/4	SKTR-6-6-4G	2.52	1.25	0.71	0.28	5/8	3/4	0.85
Γ	1/0	3/8	SKTR-8-8-6G	2.93	1.47	0.05	0.36	13/16	7/8	1.01
	1/2	1/2	SKTR-8-8-8G	3.26	1.55	0.95	0.46	15/16	1 1/16	1.21
	5/8	1/2	SKTR-10-10-8G	3.26	1.55	1.01	0.52	15/16	1 1/16	1.21
	2/4	3/4	SKTR-12-12-12G	3.54	1.62	1 0 1	0.67	1 1/16	1 3/8	1.48
-	3/4	1/2	SKTR-12-12-8G	3.40			0.52	1 1/10	1 1/16	1.21
<u>ا</u>	1	1	SKTR-16-16-16G	4.09	1.98	1.28	0.83	1 3/8	1 5/8	1.87
										,
	Tube	ISO	Basic			Dim	ensions,r	nm		
	OD	Size in.	Number	Ľ.	Lx	D	S	F	Fx	U
Γ	6	1/8	SKTR-6M-6M-2G	53.9	27.5	15.0	4.5	1/2	9/16	15.7
	0	1/4	SKTR-6M-6M-4G	61.7	29.5	1 15.0	5.3	5/8	3/4	20.8
Γ	0	1/8	SKTR-8M-8M-2G	56.8	29.3	16.7	4.5	9/16	9/16	15.7
	0	1/4	SKTR-8M-8M-4G	62.6	30.4	1 10.7	6.9	5/8	3/4	20.8
	10	1/4	SKTR-10M-10M-4G	69.1	34.0	17.7	6.4	13/16	3/4	20.8
	12	3/8	SKTR-12M-12M-6G	73.6	36.5	22.2	8.4	13/16	7/8	24.9
		1/2	SKTR-12M-12M-8G	82.0	38.5	23.3	10.0	15/16	1 1/16	29.3

NOTE: If ordering R threads, add RT to the ordering number. Example:SKNC-2-2-2RT Example:SKNC-6M-6M-2RT

Female Run Tee

S _ _ F flat

Tube	NPT	Basic		D	imension	s,in.	
OD	Size	Number		Lx	D	S	F
1/8	1/8	SKNC-2-2-2N	1.72	0.97	0.50	0.09	1/2
1/4	1/8	SKNC-4-4-2N	1.81	1.06	0.60	0 10	1/2
1/4	1/4	SKNC-4-4-4N	2.05	1.17	0.00	0.19	11/16
3/8	1/4	SKNC-6-6-4N	2.11	1.23	0.66	0.28	11/16
1/2	3/8	SKNC-8-8-6N	2.30	1.42	0.00	0.41	13/16
1/2	1/2	SKNC-8-8-8N	2.69	1.57	0.90	0.41	1 1/16
3/4	3/4	SKNC-12-12-12N	3.01	1.76	0.96	0.62	1 3/8
1	3/4	SKNC-16-16-12N	3.18	1.93	1 22	0.00	1 3/8
	1	SKNC-16-16-16N	3.61	2.11	1.23	0.00	1 11/16

	NPT	Basic Ordering		[Dimensior	ns,mm	
OD	Size _{in.}	Number	L	Lx	D	S	F
6	1/8	SKNC-6M-6M-2N	46.0	27.0	15.2	10	1/2
0	1/4	SKNC-6M-6M-4N	52.1	29.8	15.5	4.0	11/16
0	1/8	SKNC-8M-8M-2N	48.9	29.9	16.2	6.4	5/8
o	1/4	SKNC-8M-8M-4N	53.0	30.6	10.2	0.4	11/16
10	1/4	SKNC-10M-10M-4N	55.9	33.5	17.2	7.9	13/16
	1/4	SKNC-12M-12M-4N	58.4	36.0		9.5	13/16
12	3/8	SKNC-12M-12M-6N	58.4	36.0	22.8	10.3	13/16
	1/2	SKNC-12M-12M-8N	68.3	39.8		9.5	1 1/16
16	1/2	SKNC-16M-16M-8N	68.2	39.8	24.4	12.7	1 1/16



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HAL-LOK

Female Branch Tee



NOTE: If ordering R threads, add RT to the ordering number. Example:SKNF-2-2RT-2 Example:SKNF-6M-2RT-6M

Tube	NPT	Basic	Dimensions,in.						
OD	Size _{in.}	Number	L	D	S	F	Н		
1/8	1/8	SKNF-2-2N-2	1.99	0.55	0.14	1/2	0.80		
1/4	1/8	SKNF-4-2N-4	2.17	0.65	0.24	1/2	0.80		
1/4	1/4	SKNF-4-4N-4	2.39	0.05	0.24	11/16	0.93		
	1/4	SKNF-6-4N-6	2.51			11/16	0.93		
3/8	3/8	SKNF-6-6N-6	2.67	0.71	0.71	0.71	0.33	13/16	0.93
	1/2	SKNF-6-8N-6	2.89			1	1.17		
	1/4	SKNF-8-4N-8	2.89			13/16	0.93		
1/2	3/8	SKNF-8-6N-8	2.89	0.95	0.46	13/16	0.93		
	1/2	SKNF-8-8N-8	3.11			1	1.17		
5/8	1/2	SKNF-10-8N-10	3.11	1.01	0.55	1	1.17		
3/4	3/4	SKNF-12-12N-12	3.57	1.01	0.67	1 3/8	1.30		
1	3/4	SKNF-16-12N-16	3.91	1 20	0.02	1 3/8	1.30		
	1	SKNF-16-16N-16	4.27	1.20	0.93	1 11/16	1.55		

Tube	NPT	Basic	Dimensions,mm						
OD	Size _{in} .	Number	ĨL.	D	S	F	Н		
6	1/8	SKNF-6M-2N-6M	54.4	15.9	5.2	1/2	19.5		
0	1/4	SKNF-6M-4N-6M	60.0	15.0	5.5	11/16	22.9		
0	1/8	SKNF-8M-2N-8M	60.2	16.7	6.0	5/8	19.5		
0	1/4	SKNF-8M-4N-8M	61.7	10.7	10.7	10.7	0.9	11/16	22.9
10	1/4	SKNF-10M-4N-10M	67.5	17.7	8.4	13/16	22.9		
	1/4	SKNF-12M-4N-12M	72.5			13/16	22.9		
12	3/8	SKNF-12M-6N-12M	72.5	23.3	10.0	13/16	22.9		
	1/2	SKNF-12M-8N-12M	78.2			1	28.9		
16	1/2	SKNF-16M-8N-16M	78.1	24.9	13.2	1	28.9		

Tube	Basic	Dimensions,in.				
OD	Number	L	D	S	F	
1/8	SKTS-2	1.81	0.55	0.14	3/8	
1/4	SKTS-4	2.17	0.65	0.24	1/2	
5/16	SKTS-5	2.39	0.69	0.30	5/8	
3/8	SKTS-6	2.45	0.71	0.33	5/8	
1/2	SKTS-8	2.89	0.95	0.46	13/16	
3/4	SKTS-12	3.19	1.01	0.67	1 1/16	
1	SKTS-16	3.91	1.28	0.93	1 3/8	
Tube	Tube Basic Ordering		Dimensions,mm			
OD	Number	L	D	S	F	
3	SKTS-3M	45.2	13.4	2.9	3/8	
6	SKTS-6M	54.4	15.8	5.3	1/2	
8	SKTS-8M	60.2	16.7	6.9	5/8	
10	SKTS-10M	67.5	17.7	8.4	13/16	
12	SKTS-12M	72.5	23.3	10.0	13/16	
16	SKTS-16M	74.5	24.9	13.2	15/16	
18	SKTS-18M	77.1	24.9	15.6	1 1/16	
20	SKTS-20M	89.8	26.5	16.4	1 3/8	
22	SKTS-22M	89.9	26.5	18.8	5/8	
25	SKTS-25M	98.8	31.8	22.3	1 3/8	

F flat

Union Cross

Tube Fittings



1 in./25 mm and under

Tube	NDT	Basic	Dimensions,in.		
OD		Number	L	S	F
1 /0	1/8	GNM-2-2N	1.21	0.12	7/16
1/0	1/4	GNM-2-4N	1.42	0.13	9/16
2/16	1/8	GNM-3-2N	1.24	0.17	7/16
3/10	1/4	GNM-3-4N	1.45	0.17	9/16
	1/8	GNM-4-2N	1.30		7/16
1/4	1/4	GNM-4-4N	1.51	0.22	9/16
1/4	3/8	GNM-4-6N	1.54	0.22	11/16
	1/2	GNM-4-8N	1.76		7/8
5/16	1/2	GNM-5-8N	1.34	0.24	7/16
5/10	1/4	GNM-5-4N	1.55	0.27	9/16
	1/8	GNM-6-2N	1.37	0.24	7/16
2/0	1/4	GNM-6-4N	1.58	0.32	9/16
3/0	3/8	GNM-6-6N	1.61	0.32	11/16
	1/2	GNM-6-8N	1.83	0.32	7/8
	1/4	GNM-8-4N	1.80	0.33	9/16
1/2	3/8	GNM-8-6N	1.83	0.42	11/16
	1/2	GNM-8-8N	2.05	0.42	7/8
5/8	1/2	GNM-10-8N	2.11	0.52	7/8
2/4	1/2	GNM-12-8N	2 1 1	0.52	7/8
3/4	3/4	GNM-12-12N	2.11	0.63	1 1/16
1	3/4	GNM-16-12N	2.36	0.67	1 1/16
1	1	GNM-16-16N	2.65	0.85	1 3/8
1 1/4	1 1/4	GNM-20-20N	3.21	1.07	1 3/4
1 1/2	1 1/2	GNM-24-24N	3.77	1.30	2 1/8
2	2	GNM-32-32N	4.75	1.77	2 3/4

Male Tube Adapter



over 1 in./25 mm

Tube	NPT	Basic Ordering	Dimensions,in.		
OD		Number	А	S	F
1 /9	1/8	GEM-2-2N	1.21	0 1 2	7/16
1/0	1/4	GEM-2-4N	1.42	0.13	9/16
1/4	1/8	GEM-4-2N	1.30	0.22	7/16
1/4	1/4	GEM-4-4N	1.51	0.22	9/16
	1/4	GEM-6-4N	1.58		9/16
3/8	3/8	GEM-6-6N	1.61	0.32	11/16
	1/2	GEM-6-8N	1.83		7/8
	1/4	GEM-8-4N	1.80	0.33	9/16
1/2	3/8	GEM-8-6N	1.83	0.42	11/16
	1/2	GEM-8-8N	2.05	0.42	7/8
3/4	3/4	GEM-12-12N	2.11	0.63	1 1/16
1	1	GEM-16-16N	2.65	0.85	1 3/8

Tube	NPT	Basic Ordering	Dimensions,mm		
OD		Number	L	S	F
6	1/8	GNM-6M-2N	33.3	16	12
0	1/4	GNM-6M-4N	38.6	4.0	14
0	1/4	GNM-8M-4N	39.6	61	14
0	3/8	GNM-8M-6N	40.4	0.1	19
	1/4	GNM-10M-4N	40.4		14
10	3/8	GNM-10M-6N	41.1	7.6	18
	1/2	GNM-10M-8N	46.7		22
12	1/4	GNM-12M-4N	47.0	7.6	16
12	1/2	GNM-12M-8N	52.6	9.3	22
20	1	GNM-28M-16N	75.2	22.7	35
20	1 1/4	GNM-28M-20N	76.7	23.0	46
20	1	GNM-30M-16N	79.7	22.7	41
30	1 1/4	GNM-30M-20N	80.5	24.8	46
32	1 1/4	GNM-32M-20N	81.5	27.0	46
38	1 1/2	GNM-38M-24N	92.7	32.1	55

Tube	NPT	Basic Ordering	Dimensions,mm			
OD		Number	А	S	F	
6	1/8	GEM-6M-2N	33.3	16	12	
0	1/4	GEM-6M-4N	38.6	4.0	14	
8	1/4	GEM-8M-4N	39.6	6.1	14	
10	1/4	GEM-10M-4N	40.4	76	14	
10	3/8	GEM-10M-6N	41.1	41.1 7.0		
	1/4	GEM-12M-4N	47.0	7.6	16	
12	3/8	GEM-12M-6N	46.7	9.3	18	
	1/2	GEM-12M-8N	52.3	9.3	22	
20	1	GEM-28M-16N	75.2	22.7	35	
20	1 1/4	GEM-28M-20N	76.7	23.0	46	
30	1 1/4	GEM-30M-20N	80.5	24.8	46	
32	1 1/4	GEM-32M-20N	81.5	27.0	46	
38	1 1/2	GEM-38M-24N	92.7	32.1	55	

NOTE: If ordering R threads, add RT to the ordering number. Example:GNM2-2-2RT Example:GNM-6M-2RT

HAL-LOK

Replacement Parts



Tube OD	Ordering Number	F	L
		in	
1/8	EN-2	7/16	0.55
3/16	EN-3	1/2	0.59
1/4	EN-4	9/16	0.65
5/16	EN-5	5/8	0.69
3/8	EN-6	11/16	0.71
1/2	EN-8	7/8	0.95
5/8	EN-10	1	1.01
3/4	EN-12	1 1/8	1.01
7/8	EN-14	1 1/4	1.07
1	EN-16	1 1/2	1.28
1 1/4	EN-20	1 7/8	1.67
1 1/2	EN-24	2 1/4	2.02
2	EN-32	3	2.71

Tube OD	Ordering Number	F	L
	m	m	
2	EN-2M	12	11.9
3	EN-3M	12	11.9
4	EN-4M	12	11.9
6	EN-6M	14	12.7
8	EN-8M	16	13.5
10	EN-10M	19	15.1
12	EN-12M	22	17.4
14	EN-14M	25	17.4
15	EN-15M	25	17.4
16	EN-16M	25	17.4
18	EN-18M	30	17.4
20	EN-20M	32	17.4
22	EN-22M	32	17.4
25	EN-25M	38	20.6
28	EN-28M	46	30.6
30	EN-30M	50	32.7
32	EN-32M	50	34.4
38	EN-38M	60	40.6
50	EN-50M	75	52.3



Tube OD	Ordering Number
i	n.
1/8	QKT-2
3/16	QKT-3
1/4	QKT-4
5/16	QKT-5
3/8	QKT-6
1/2	QKT-8
5/8	QKT-10
3/4	QKT-12
7/8	QKT-14
1	QKT-16
1 1/4	QKT-20
1 1/2	QKT-24
2	QKT-32

Tube OD	Ordering Number			
mm				
2	QKT-2M			
3	QKT-3M			
4	QKT-4M			
6	QKT-6M			
8	QKT-8M			
10	QKT-10M			
12	QKT-12M			
14	QKT-14M			
15	QKT-15M			
16	QKT-16M			
18	QKT-18M			
20	QKT-20M			
22	QKT-22M			
25	QKT-25M			
28	QKT-28M			
30	QKT-30M			
32	QKT-32M			
38	QKT-38M			
50	QKT-50M			

Front Ferrule



Bac	k F	-er	ru	le

Tube OD	Ordering Number
i	n.
1/8	HKT-2
3/16	HKT-3
1/4	HKT-4
5/16	HKT-5
3/8	HKT-6
1/2	HKT-8
5/8	HKT-10
3/4	HKT-12
7/8	HKT-14
1	HKT-16
1 1/4	HKT-20
1 1/2	HKT-24
2	HKT-32

Tube OD	Ordering Number
	mm
2	HKT-2M
3	HKT-3M
4	HKT-4M
6	HKT-6M
8	HKT-8M
10	HKT-10M
12	HKT-12M
14	HKT-14M
15	HKT-15M
16	HKT-16M
18	HKT-18M
20	HKT-20M
22	HKT-22M
25	HKT-25M
28	HKT-28M
30	HKT-30M
32	HKT-32M
38	HKT-38M
50	HKT-50M



Features

Live-loaded, two-ferrule design.

Easy to install.

No torque is transmitted to tubing during installation.

Gap inspection gauge ensures sufficient pull-up upon initial installation.



During assembly of the advanced-geometry design (above), the front ferrule is driven into the fitting body and the tubing to create primary seals, while the back ferrule hinges inward to create a strong grip on the tubing. The back ferrule geometry allows for an improved engineering hinging-colleting action that translates axial motion into radial swaging action on the tube, yet operates with a low assembly torque requirement.

The HAL-LOK Tube Fitting Advantage

Gas seal

Burnishing and polishing action of the front ferrule creates concentrated zones of contact on the tube and on the body bevel for a stronger seal.

Interchange

HAL-LOK tube fittings can be interchanged with other fittings manufactured in accordance with international standards.

Two-Ferrule, Mechanical Grip Design

The two ferrules separate sealing and tube gripping functions; each ferrule is optimized for its function.

The front ferrule creates a seal:

Corrosion

With the company's own special hardening process, HAL-LOK ferrules have high strength and corrosion resistance, which has been fully proven through decades of application in multiple industrial fields.

Precision

HAL-LOK tube fitting are manufactured to precise tolerances.Without such precise tolerances, nut, ferrule and accessories will not work effectively together.

- against the fitting body
- on the tubing outside diameter.
- As the nut is turned, the back ferrule:
 - axially advances the front ferrule
- radially applies an effective tube grip.

Installation Instructions

HAL-LOK

Gaugeability

On initial installation, the gap inspection gauge assures the installer or inspector that a fitting has been sufficiently tightened.

Position the gap inspection gauge next to the gap between the nut and body.



If the gauge will not enter the gap, the fitting is sufficiently tightened. If the gauge will enter the gap, additional tightening is required.

Always depressurize a system before adjusting the tightness of a tube fitting connection.

Installation Instructions

Tube fittings 1 in./25 mm and smaller can be installed quickly, easily, and reliably with simple hand tools.Over 1 in./25 mm sizes require use of a hydraulic swaging unit to swage the ferrules onto the tubing.

Safety Precautions

- Do not bleed system by loosening fitting nut or fitting plug
- Do not assemble or tighten fittings when system is pressurized
- Make sure that the tubing rests firmly on the shoulder of the tube fitting body before tightening the nut.
- Use the gap inspection gauge to ensure sufficient pull-up upon initial installation.

Tubing Considerations

- Metal tubing material should be softer than fitting material. For example, stainless steel tubing should not be used with brass fittings.
- When tubing and fittings are made of the same material, tubing must be fully annealed.
- Always use an insert with extremely soft or pliable plastic tubing.

Always use proper thread sealants on tapered pipe threads.

- Do not mix materials or fitting components from various manufacturers—tubing, ferrules, nuts, and fitting bodies
- Never turn fitting body. Instead, hold fitting body and turn nut.

Avoid unnecessary disassembly of unused fittings

Use only long reducers in female end connections.

Extremes of wall thickness should always be checked against the suggested minimum and maximum wall thickness limitations.

Surface finish is very important to proper sealing. Tubing with any kind of depression, scratch, raised portion, or other surface defect will be difficult to seal, particularly in gas service.

Tubing that is oval and will not easily fit through fitting nuts, ferrules, and bodies should never be forced into the fitting.

Tubing

Stainless Steel Seamless Tubing

Flomont	316 / 316L	304 / 304L
Element	Compositi	on, wt. %
Chromium	16.0 to 18.0	18.0 to 20.0
Nickel	11.0 to 14.0	8.0 to 11.0
Molybdenum	2.00 to 3.00	
Manganese	2.00 max	2.00 max
Silicon	0.75 max	0.75 max
Carbon	0.035 max	0.035 max
Sulfur	0.030 max	0.030 max

Tube OD in.	Tube Wall Thickness in.	Ordering Number	Length M	Weight KG/M
1/8	0.028	YZ-KTG-3.175*0.7		0.029
	0.035	YZ-KTG-6.35*0.89		0.080
1/4	0.049	YZ-KTG-6.35*1.24		0.105
	0.065	YZ-KTG-6.35*1.65		0.128
	0.035	YZ-KTG-9.53*0.89		0.127
3/8	0.049	YZ-KTG-9.53*1.24		0.171
	0.065	YZ-KTG-9.53*1.65		0.215
	0.035	YZ-KTG-12.7*0.89	2M	0.174
1/2	0.049	YZ-KTG-12.7*1.24		0.236
	0.065	YZ-KTG-12.7*1.65	4M	0.302
5/8	0.065	YZ-KTG-15.87*1.65		0.389
3/4	0.065	YZ-KTG-19.05*1.65	6M	0.476
1	0.083	YZ-KTG-25.4*2.14		0.813
1 1 / 4	0.095	YZ-KTG-31.75*2.41		1.187
11/4	0.120	YZ-KTG-31.75*3		1.473
1 1 /0	0.120	YZ-KTG-38.1*3		1.792
1 1/2	0.134	YZ-KTG-38.1*3.4		1.981
	0.124	V7 KTC 50 9+2 4		2 705

Standard instrumentation tubing
Chemically cleaned and passivated tubing
Thermocpuple-cleanded tubing

Straight Tubing

Tube OD mm	Tube Wall Thickness mm	Ordering Number	Length M	Weight KG/M	Working Pressure bar
0	0.5	GZ-KTG-3*0.5		0.021	340
3	0.7	GZ-KTG-3*0.7		0.027	560
	1.0	GZ-KTG-6*1		0.125	420

6			
0	1.5	GZ-KTG-6*1.5	
0	1.0	GZ-KTG-8*1	
8	1.5	GZ-KTG-8*1.5	
10	1.0	GZ-KTG-10*1	
10	1.5	GZ-KTG-10*1.5	
	1.0	GZ-KTG-12*1	2M
12	1.5	GZ-KTG-12*1.5	
	2.0	GZ-KTG-12*2	4M
	1.0	GZ-KTG-16*1	
16	1.5	GZ-KTG-16*1.5	6M
	2.0	GZ-KTG-16*2	
	1.0	GZ-KTG-18*1	
18	1.5	GZ-KTG-18*1.5	
	2.0	GZ-KTG-18*2	
20	2.0	GZ-KTG-20*2	
22	2.0	GZ-KTG-22*2	

1.000
710
310
520
240
400
200
330
470
140
230
330
120
200
290
260
230

2	0.104	12-110-30.0-3.4	2.705
2	0.188	YZ-KTG-50.8*4.77	3.686

25	2.0	GZ-KTG-25*2	1.15	200
25	2.5	GZ-KTG-25*2.5	1.41	260



Stainless Steel Coiled Tubing				
Dimensions,in.				Dimensions,mm
Tube OD	Ordering Number		Tube OD	Ordering Number
1/16	YZ-PG-1		3	GZ-PG-3M
1/8	YZ-PG-2		6	GZ-PG-6M
1/4	YZ-PG-4		8	GZ-PG-8M
3/8	YZ-PG-6		10	GZ-PG-10M
1/2	YZ-PG-8		12	GZ-PG-12M

Coiled Tubing

Ball Valves

HAL-LOK

One-Piece Instrumentation Ball Valves

How To Order

Select an oedering number Example:YBQF-2 Add a material designator. Example: YBQF-2-SS

Material	Designator	Material	Designator
316 SS	SS	Alloy C-276	HC
Brass	В	Alloy 20	C20
Titanium	Ti	PTFE	Т

On-off, switching, and crossover flow paths
Working pressures up to 1000 psig
Temperatures from -4 to 212 ° F (-20 to 100 ° C)
Environmental and heated-process applications
1/8 to 3/4 in. and 3 to 25 mm end connections



YBQF-2	1/8	0.09	0.15	2.02	1.01	1.37	0.60	1/4	1.27	0.59		
YBQF-3	3/16	0.13	0.35	2.21	1.11	1.37	0.60	1/4	1.27	0.59		
YBQF-4	1/4	0.19	0.90	2.37	1.19	1.48	0.79	1/4	1.27	0.79		
YBQF-6	3/8	0.28	2.00	2.88	1.45	2.08	1.14	3/8	1.51	1.13		
YBQF-8	1/2	0.41	4.60	3.49	1.75	2.45	1.51	3/8	2.37	1.51		
	Dimensions, mm											
YBQF-3M	3	2.4	0.15	51.1	25.6	34.6	15.2	6.5	32.1	14.8		
YBQF-6M	6	4.8	0.90	60.1	30.1	37.4	15.2	6.5	32.1	19.9		
YBQF-8M	8	4.8	0.90	62.6	31.3	37.4	19.9	6.5	38.2	19.9		
YBQF-10M	10	7.1	2.00	73.1	36.6	52.6	28.8	9.8	43.1	28.6		
YBQF-12M	12	10.3	4.60	88.6	44.3	62.1	38.2	9.8	60.1	38.2		

Panel hole size: 15mm (1/8); 15mm (1/4); 17mm (3/8); 20mm (1/2)



Ordering	Tube	0.10	~			C	Dimensions				
Number	OD	Orifice	C_{v}	A	В	С	D	E	F	G	
	Dimensions,in.										
JTK-2	1/8	0.09	0.15	1.02	1.02	1.37	0.60	1/4	1.27	0.59	
JTK-3	3/16	0.13	0.35	1.11	1.11	1.37	0.60	1/4	1.27	0.59	
JTK-4	1/4	0.19	0.90	1.21	1.21	1.48	0.79	1/4	1.27	0.79	
JTK-6	3/8	0.28	2.00	1.46	1.46	2.08	1.14	3/8	1.51	1.13	
JTK-8	1/2	0.41	4.60	1.75	1.75	2.45	1.51	3/8	2.37	1.51	
				Dime	nsions,mm				_		
JTK-3M	3	2.4	0.15	25.6	25.6	34.6	15.2	6.5	32.1	14.8	
JTK-6M	6	4.8	0.90	30.1	30.1	37.4	15.2	6.5	32.1	19.9	
JTK-8M	8	4.8	0.90	31.3	31.3	37.4	19.9	6.5	38.2	19.9	
JTK-10M	10	7.1	2.00	36.6	36.6	52.6	28.8	9.8	43.1	28.6	
JTK-12M	12	10.3	4.60	44.3	44.3	62.1	38.2	9.8	60.1	38.1	

Panel hole size: 15mm (1/8); 15mm (1/4); 17mm (3/8); 20mm (1/2)

Ball Valves

One-Piece Instrumentation Ball Valves

How To Order

Select an oedering number Example:YPSL-2 Add a material designator. Example: YPSL-2-SS

Material	Designator	Material	Designator
316 SS	SS	Alloy C-276	HC
Brass	В	Alloy 20	C20
Titanium	Ti	PTFE	Т

On-off, switching, and crossover flow paths
Working pressures up to 1000 psig
Temperatures from -4 to 212 ° F (-20 to 100 ° C)
Environmental and heated-process applications
1/8 to 3/4 in. and 3 to 25 mm end connections



3-Way Ball Valve



Ordering	Tube						Dimension	S										
Number	OD	Orifice	Orifice	Orifice	Orifice	Orifice	Orifice	Orifice	Orifice	Orifice	C _V	А	В	С	D	E	F	G
				Di	mensions,i	n.												
YPSL-2	1/8	0.09	0.15	2.02	1.01	1.37	0.60	1/4	1.27	0.59								
YPSL- 3	3/16	0.13	0.35	2.21	1.11	1.37	0.60	1/4	1.27	0.59								
YPSL-4	1/4	0.19	0.90	2.37	1.19	1.48	0.79	1/4	1.27	0.79								
YPSL- 6	3/8	0.28	2.00	2.88	1.45	2.08	1.14	3/8	1.51	1.13								
YPSL- 8	1/2	0.41	4.60	3.49	1.75	2.45	1.51	3/8	2.37	1.51								
				Dir	mensions,r	nm												
YPSL-3M	3	2.4	0.15	51.1	25.6	34.6	15.2	6.5	32.1	14.8								
YPSL-6M	6	4.8	0.90	60.1	30.1	37.4	15.2	6.5	32.1	19.9								
YPSL-8M	8	4.8	0.90	62.6	31.3	37.4	19.9	6.5	38.2	19.9								
YPSL-10M	10	7.1	2.00	73.1	36.6	52.6	28.8	9.8	43.1	28.6								
YPSL-12M	12	10.3	4.60	88.6	44.3	62.1	38.2	9.8	60.1	38.2								

Panel hole size: 15mm (1/8); 15mm (1/4); 17mm (3/8); 20mm (1/2)

Straight-Pattern Ball Valve (hexagonal body)



Ordering	Tube	Dimensions,mm			
Number	OD	Ľ.	H	Orifice	
YBQS-4	1/4 in.	80	42	4.2	

7777-5500	
HAL-LOK	H

YBQS-6	3/8 in.	80	42	6.4
YBQS-8	1/2 in.	92	54	10.3
YBQS-6M	6mm	80	42	4.2
YBQS-8M	8mm	80	42	6.4
YBQS-10M	10mm	92	54	10.3

NOTE: Dimensions subject to change, to be used for reference only.For detailed parameters, please consult HAL technical support.

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Ball Valves

HAL-LOK

How To Order

Select an oedering number Example:YQTT-2 Add a material designator. Example: YQTT-2-SS

Material	Designator	Material	Designator
316 SS	SS	Alloy C-276	HC
Brass	В	Alloy 20	C20
Titanium	Ti	PTFE	Т

On-off, switching, and crossover flow paths
Working pressures up to 3000 psig
Temperatures from -4 to 212 ° F (-20 to 100 ° C)
Environmental and heated-process applications
1/8 to 3/4 in. and 3 to 25 mm end connections

Straight-Pattern Ball Valve





3-Way Ball Valve

High Pressure Ball Valves



L	

Ordering	Tube	Dimensions,mm			
Number	OD	L	D x E	Orifice	
YQTT-2	1/8	73	16 x 6.4	2.5	
YQTT-4	1/4	85	16 x 6.4	4.3	
YQTT-6	3/8	97	20 x 6.4	6.5	
YQTT-8	1/2	105	16 x 6.6	10.4	
YQTT-12	3/4	113	23 x 9.7	10.4	
YQTT-3M	3mm	73	23 x 9.7	2.5	
YQTT-4M	4mm	73	16 x 6.4	2.5	
YQTT-6M	6mm	85	16 x 6.4	4.3	
YQTT-8M	8mm	97	16 x 6.4	4.3	
YQTT-10M	10mm	97	16 x 6.4	6.5	
YQTT-12M	12mm	105	20 x 6.4	6.5	
YQTT-14M	14mm	105	20 x 6.4	10.4	
YQTT-16M	16mm	105	23 x 97	10.4	
YQTT-18M	18mm	113	23 x 97	10.4	
YQTT-20M	20mm	113	23 x 97	10.4	

Ordering	Tube	Dir	nensions,ı	mm
Number	OD	L	D x E	Orifice
YBQF3-2	1/8	73	16 x 6.4	2.5
YBQF3-4	1/4	85	16 x 6.4	4.3
YBQF3-6	3/8	97	20 x 6.4	6.5
YBQF3-8	1/2	105	16 x 6.6	10.4
YBQF3-12	3/4	113	23 x 9.7	10.4
YBQF3-3M	3mm	73	23 x 9.7	2.5
YBQF3-4M	4mm	73	16 x 6.4	2.5
YBQF3-6M	6mm	85	16 x 6.4	4.3
YBQF3-8M	8mm	97	16 x 6.4	4.3
YBQF3-10M	10mm	97	16 x 6.4	6.5
YBQF3-12M	12mm	105	20 x 6.4	6.5
YBQF3-14M	14mm	105	20 x 6.4	10.4
YBQF3-16M	16mm	105	23 x 97	10.4
YBQF3-18M	18mm	113	23 x 97	10.4
YBQF3-20M	20mm	113	23 x 97	10.4

Panel hole size: 16.5mm (1/8); 15mm (1/4); 17mm (3/8); 20mm (1/2)



Ball Valves

High Pressure Ball Valves

How To Order

Select an oedering number Example:YQFN-2N Add a material designator. Example: YQFN-2N-SS

Material	Designator	Material	Designator
316 SS	SS	Alloy C-276	HC
Brass	В	Alloy 20	C20
Titanium	Ti	PTFE	Т

On-off, switching, and crossover flow paths
Working pressures up to 3000 psig
Temperatures from -4 to 212 ° F (-20 to 100 ° C)
Environmental and heated-process applications

1/8 to 3/4 in. and 3 to 25 mm end connections

Female Ball Valve

Male Ball Valve









Orderina		Dim	Dimensions,mm Ordering Throad			Ordering Three		nensions	,mm	
Number	(P)	L	DxE	Orifice		Number	(P)	L	DxE	Orifice
YQFN-2N	NPT1/8	64	16x6.4	2.4		YQBM -2N	NPT1/8	64	16x6.4	2.4
YQFN-4N	NPT1/4	76	16x6.4	4.2		YQBM -4N	NPT1/4	76	16x6.4	4.2
YQFN-6N	NPT3/8	94	20x6.4	6.4		YQBM -6N	NPT3/8	94	20x6.4	6.4
YQFN-8N	NPT1/2	102	23x9.7	10.3		YQBM -8N	NPT1/2	102	23x9.7	10.3
YQFN-2RT	R1/8	64	16x6.4	2.4		YQBM-2RT	R1/8	64	16x6.4	2.4
YQFN-4RT	R1/4	76	16x6.4	4.2		YQBM-4RT	R1/4	76	16x6.4	4.2
YQFN-6RT	R3/8	94	20x6.4	6.4		YQBM-6RT	R3/8	94	20x6.4	6.4
YQFN-8RT	R1/2	102	23x9.7	10.3		YQBM-8RT	R1/2	102	23x9.7	10.3

Panel hole size: 16.5mm (1/8); 15mm (1/4); 17mm (3/8); 20mm (1/2)



Needle Valves

HAL-LOK

Instrumentation Needle Valves

How To Order

Select an oedering number Example:FMZF-2

Add a material designator. Example: FMZF-2-SS

Material	Designator	Material	Designator
316 SS	SS	Alloy C-276	HC
Brass	В	Alloy 20	C20
Titanium	Ti	PTFE	Т

- Live-loaded packing system
- Compact design
- Working pressures up to 3000-6000 psig
- Temperatures from -4 to 392 ° F (-20 to 200 ° C)

Straight-Pattern





Ordering	Tube				Dimer	nsions	
Number	OD	Orifice	C_{ν}	Α	D	Η	F
			Dimensi	ons,in.			
FMZF-2	1/8	0.080	0.09	1.98	0.48	2.29	1.01
FMZF-4	1/4	0.172	0.37	2.28	0.54	2.51	1.39
FMZF-6	3/8	0.200	0.74	2.59	0.79	2.98	1.89
FMZF-8	1/2	0.375	1.80	3.81	1.04	3.91	3.01
FMZF-12	3/4	0.375	1.80	3.81	1.04	3.91	3.01
			Dimensio	ons,mm			
FMZF-3M	3	2.0	0.09	49.4	12.3	58.0	25.5
FMZF-6M	6	4.4	0.37	57.8	13.6	63.6	35.2
FMZF-8M	8	4.4	0.37	59.5	13.6	63.6	35.2
FMZF-10M	10	6.4	0.73	66.1	19.9	75.5	4.9
FMZF-12M	12	9.5	1.80	96.6	26.3	99.2	76.3
FMZF-14M	14	9.5	1.80	96.60	26.3	99.2	76.3
FMZF-18M	18	9.5	1.80	96.60	26.3	99.2	76.3

Panel hole size: 15mm (1/8); 15mm (1/4); 17mm (3/8); 20mm (1/2)



Male Neddle Valve



NOTE: If ordering R threads, add RT to the ordering number.

Example:FAZFM-2RT

Ordering	NDT	Orifico	\mathbf{c}	Dimensions			
Number		Office	C_{ν}	Α	D	H	F
			Dimen	sions,in.			
FAZFM-2N	NPT1/8	0.080	0.09	1.89	0.48	2.29	1.01
FAZFM-4N	NPT1/4	0.250	0.73	2.13	0.79	2.98	1.89
FAZFM-6N	NPT3/8	0.375	1.80	3.01	1.04	3.89	3.01
FAZFM-8N	NPT1/2	0.375	1.80	3.01	1.04	3.89	3.01
FAZFM-12N	NPT3/4	0.375	1.80	3.01	1.04	3.89	3.01

Panel hole size: 15mm (NPT 1/8); 15mm (NPT 1/4); 17mm (NPT 3/8); 20mm (NPT 1/2)

Needle Valves

Instrumentation Needle Valves

How To Order

Select an oedering number Example: FASS-2

Add a material designator. Example: FASS-2-SS

Material	Designator	Material	Designator
316 SS	SS	Alloy C-276	HC
Brass	В	Alloy 20	C20
Titanium	Ti	PTFE	Т

- Live-loaded packing system
- Compact design
- Working pressures up to 3000-6000 psig
- Temperatures from -4 to 392 ° F (-20 to 200 ° C)



Orderina	Tube				Dime	nsions	
Number	OD	Orifice	Cv	Α	D	H	
			Dimensi	ons,in.			
FASS-2	1/8	0.080	0.09	1.00	0.48	2.29	1.01
FASS-4	1/4	0.172	0.37	1.15	0.54	2.51	1.39
FASS-6	3/8	0.200	0.74	1.31	0.79	2.98	1.89
FASS-8	1/2	0.375	1.80	1.41	1.04	3.91	3.01
FASS-12	3/4	0.375	1.80	1.91	1.04	3.91	3.01
			Dimensi	ons,mm			
FASS-3M	3	2.0	25.2	49.4	12.3	58.0	25.5
FASS-6M	6	4.4	29.1	57.8	13.6	63.6	35.2
FASS-8M	8	4.4	33.1	59.5	13.6	63.6	35.2
FASS-10M	10	6.4	33.1	66.1	19.9	75.5	4.9
FASS-12M	12	9.5	35.7	96.6	26.3	99.2	76.3
FASS-14M	14	9.5	40.7	96.60	26.3	99.2	76.3
FASS-18M	18	9.5	48.4	96.60	26.3	99.2	76.3

Panel hole size: 15mm (1/8); 15mm (1/4); 17mm (3/8); 20mm (1/2)



NOTE: If ordering R threads, add RT to the ordering number.



Orderina					Dime	nsions	
Number	NPT	Orifice	C _v	Α	D	H	II.
			Dimensi	ons,in.			
FAZFF-2N	NPT1/8	0.080	0.09	1.89	0.48	2.29	1.01
FAZFF-4N	NPT1/4	0.250	0.73	2.13	0.79	2.98	1.89
FAZFF-6N	NPT3/8	0.375	1.80	3.01	1.04	3.89	3.01
FAZFF-8N	NPT1/2	0.375	1.80	3.01	1.04	3.89	3.01
FAZFF-12N	NPT3/4	0.375	1.80	3.01	1.04	3.89	3.01

Panel hole size: 15mm (NPT 1/8); 15mm (NPT 1/4); 17mm (NPT 3/8); 20mm (NPT 1/2)

Relief Valves

HAL-LOK

Relief Valve

RV series relief valves are proportional safety relief valves, obtain overpressure protection for a variety of applications with the proportional relief valves with easy external set pressure adjustments. RV series relief valves OPEN when system pressure reaches the set pressure and CLOSE when system pressure falls below the set pressure; After heat treatment, the valve core has achieved higher surface finish and structural strength, resulting in better performance in resisting wear, dirt in the fluid, and service life.





Materials of Construction

Number	Component	Material
1	Plug	PTFE
2	Сар	316SS
3	Spring	SWP-A
4	Lock nut	316SS
5	Spring Support	316SS
6	Bonnet	316SS
7	O-Ring	FKM
8	Stem Shaft	316SS/FKM
9	Seat Guide	316SS



- 316 stainless steel structure
- Multiple springs for a selection of set pressure ranges
- 1/8 and 1/2 in. and 3 to 12 mm end connections
- Set pressures from 10 to 3000 psig
- Opening pressure error accuracy ±5%

Ordering	Tube	Size Dimensions					
Number	OD	mm	Α	Μ	Ν	W	Н
FCAT-3M	3mm	24	37.5	35			
FCAT-02	1/8 in.	2.4	37.5	35			
FCAT-6M	6mm		39.7	36.2	10.8	19	66.5
FCAT-04	1/4 in.	4.8	39.7	36.2			
FCAT-8M	8mm		41.3	37.8			



Female Relief Valve

Ordering Number	Size
FCAF-4N	1/4 NPT Female

Ordering Number	Size	Opening Pressure
FCTT-4N-20p		20psi
FCTT-4N-100P		100psi
FCTT-4N-150P	NP11/4	150psi
FCTT-4N-250P		250psi



Straight-Pattern Relief Valve



Check Valves



		Valve Body Materials			
Number	Component	316SS			
		Material Grade/ASTM Specification			
1	Inlet body	316SS/A479			
2	O-Ring	Fluorocarbon FKM			
3	Inlet gasket	316SS/A240			
4	Poppet	316SS/A479			
5	Spring	302SS/A313			
6	Outlet body	316SS/A479			

Opening Pressure (bar)
0.1
0.2
0.5

Note: The default opening pressure of the check valve is 0.2bar



Check Valve With Ferrule





Female And Male Check Valve





Ordering	Sizo	Dimensions							
Number	SIZE	A	W						
	Dimensions,in.								
2C-SS	1/8	2.21	0.64						
4C-SS	1/4	2.39	0.64						
6C-SS	3/8	2.49	0.70						
8C-SS	1/2	3.04	0.95						
12C-SS	3/4	3.49	1.14						
16C-SS	1	4.73	1.38						
Dimensions,mm									
6C-MM-SS	6	60.6	15.98						
10C-MM-SS	10	63.6	17.5						
12C-MM-SS	12	77.1	23.9						

Ordering	Size	(in.)	Dimensions,mm		
Number	Female	Male	А	W	
4NFM-SS	NPT1/4	NPT1/4	60	19	
6NFM-SS	NPT3/8	NPT3/8	78	23	
8NFM-SS	NPT1/2	NPT1/2	92	27.5	
12NFM-SS	NPT3/4	NPT3/4	106	33	
4RFM-SS	RC1/4	RC1/4	60	19	
6RFM-SS	RC3/8	RC3/8	78	23	
8RFM-SS	RC1/2	RC1/2	92	27.5	
12RFM-SS	RC3/4	RC3/4	106	33	

Male Check Valve





Size Ordering		Dimensions, mm			Size	Ordering	Dimensions, mm	
NPT in.	Number	mber A W RC in	RC in.	Number	A	w		
1/8	2CN-SS	46	15.89		1/8	2CR-SS	46	15.89
1/4	4CN-SS	58	19.06		1/4	4CR-SS	58	19.06
3/8	6CN-SS	76	22.21		3/8	6CR-SS	76	22.21
1/2	8CN-SS	91	27.01		1/2	8CR-SS	91	27.01
3/4	12CN-SS	105	32.01		3/4	12CR-SS	105	32.01
1	16CN-SS	123	41.21		1	16CR-SS	123	41.21

Female Check Valve



		Dime	ensior	ns,n	nm			Dime	ensior	ıs,n	nm
Size _{NPT} in.	Ordering Number	Ρ	Flow Orifice	м	L	Size _{RC} in.	Ordering Number	Ρ	Flow Orifice	М	L
1/8	2CFN-SS	9	6.2	17	46	1/8	2CFR-SS	9	6.2	17	46

1/4	4CFN-SS	12	6.6	19	57	1/4	4CFR-SS	12	6.6	19	57
3/8	6CFN-SS	15.5	8.4	22	60	3/8	6CFR-SS	15.5	8.4	22	60
1/2	8CFN-SS	19.3	10.5	27	68	1/2	8CFR-SS	19.3	10.5	27	68
3/4	12CFN-SS	24.8	14	32	80	3/4	12CFR-SS	24.8	14	32	80
1	16CFN-SS	30.4	30.4	١	١	1	16CFR-SS	30.4	30.4	١	١



Filters

HAL-LOK

Inline Filters





	Materials						
Component	Brass	316 SS					
	Grade/ASTM	Specification					
Body	Brass/B16	316 SS/A479					
Bonnet nut	Brass/B16	316 SS/A479					
Bonnet	Brass/B16	316 SS/A479					
Element	316 SS	316SS					
Spring	302 SS	302 SS					
Gasket	Aluminum/B209	316 SS					
Retaining ring	Stainless Steel/ A276	Stainless Steel/ A276					
Ferrule nut	Stainless Steel/ A276	Stainless Steel/ A276					
Ferrule set	Stainless Steel/ A276	Stainless Steel/ A276					

Note: The default filtration accuracy of inline filter is: 5µm

Ordering	~	Dimensions						
Number	Size	L	W					
Dimensions,in.								
2M-SS	1/8	2.27	0.56					
4M-SS	1/4	2.77	0.76					
6M-SS	3/8	3.22	1.03					
8M-SS	8M-SS 1/2		1.03					
	Dimens	ions,mm						
3M-MM-SS	3	57.6	14.1					
6M-MM-SS	6	75.1	19.1					
10M-MM-SS	10	81.6	26.1					
12M-MM-SS	12	88.6	26.1					

Filtration	Area
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Туре	Size	Sintered Element	
直通	1/8in. 1/4in. 6mm	1.3(830mm²)	
T型	1/8 in.	0.55(350mm²)	
	1/4in. 6mm	1.3(830mm ²)	
	3/8in. 1/2in. 8-12mm	1.3(1280mm²)	



Tee-Type Filters



Note: The default filtration accuracy of tee type filter is: 50µm

Ordering		Dimensions						
Number	Size	L.		В	D	W		
			Dimensions,ir	۱.				
HL-TK-2	1/8	2.25	1.88	0.40	1.01	1.01		
HL-TK-4	1/4	2.49	1.88	0.40	1.01	1.01		
HL-TK-6	3/8	2.84	2.21	0.47	1.14	1.14		
HL-TK-8	1/2	3.04	2.21	0.47	1.14	1.14		
		D	imensions,mn	n				
HL-TK-6M	6	63.1	47.6	9.9	25.5	25.5		
HL-TK-8M	8	72.1	56.1	11.7	25.5	25.5		
HL-TK-10M	10	72.6	56.1	11.7	28.9	28.9		
HL-TK-12M	12	77.1	56.1	11.7	28.9	28.9		



Flashback Arrestor

Flashback Arrestor

Features

- High quality, corrosion resistant
- Flame Barrier
- Check Valve
- Inlet Filter

Applicable gases: Hydrogen, acetylene and other combustible gases







Number	Component	Model Number	Materials	
1	Bonnet	FA2-FNT4-01	316L	
2	Body	FA2-FNT4-02	316L	
3	vent hole	FA2-FNT4-03	316L	
4	Top block	FA2-FNT4-04	316L	
5	Lower block	FA2-FNT4-05	316L	
6	Piston	FA2-FNT4-06	316L	
7	Strainer Element	FA2-FNT4-07	Stainless Steel Powder	
8	Sring	RV-NT4-FNT4-06	316L	

Flashback Arrestor (female)

Ordering	Size	Dimensions,mm			
Number	in.	Ĺ	Р		
PG-4	NPT1/4	76	17		
PG-6	NPT3/8	76	17		
PG-8	NPT1/2	75	24		
PG-12	NPT3/4	75	30		



Flashback Arrestor (formule type)

				i asiback Arestor (rende type)				
9	Sring	CV-FNT4-04	316L		Ordering	Size	Ordering	Size
10 O	O-ring	0-18×1.5	NBR		Number	in.	Number	mm
					HLGP-4	1/4	HLGP-6M	6
11	O-ring	0-4.5×18	FKM(60°C)		HLGP-6	3/8	HLGP-8M	8
12 0	O-ring	0-13×1.5	FKM		HLGP-8	1/2	HLGP-10M	10
					HLGP-12	3/4	HLGP-12M	12
13	Screen Strainer	SR12-13	316L		HLGP-16	1"		

上海浩流机械设备有限公司 Shanghai Haoliu Mechanical Equipment Co., LTD







Address: No.29 Jin Tang Road, Pudong New Area, Shanghai,China Phone Number: 021-50409310 Mobile Number: 18721872815,15921409894 Website: www.haoliuzx.com E-mail: xueyong@haoliuzx.com