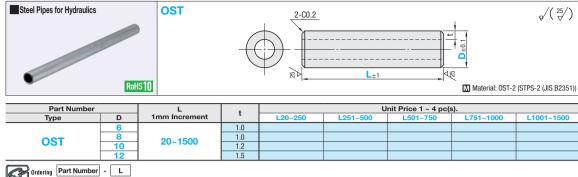
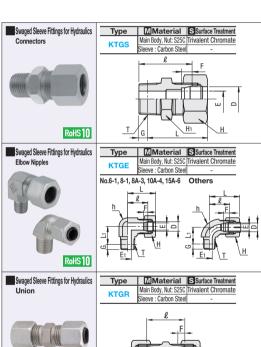
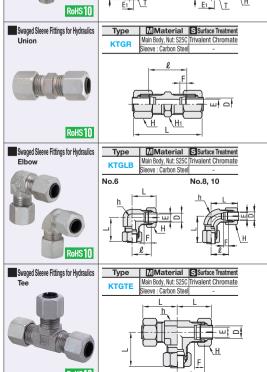
Steel Pipes for Hydraulics / Swaged Sleeve Fittings for Hydraulics







Part Nu		Applicable	Т	E	_ F	Reference			Socket	F		Q.	Unit Price	
Type	No.	Pipe O.D. D	R(PT)	_		Dia. G	Hand Approx. L	H ₁	H	<u>. </u>	_		1 ~ 9 pc(s).	10 ~ 30 pcs
	6-1 6-2	6	1/8	4		3.97 6.01	34.5 37.5	14	14	7		28 33		
	8-1	8	1/8	-		3.97	35.5	17	17	7		29		
	8-2	8	1/4	(6.01	37.5	17	17	7		33		
(TOO	10-2	10	1/4	1		6.01	38.5	17	19	7		33		
KTGS	10-3 12-2	10 12	3/8	-		6.35 6.01	39.0 38.5	19 19	19	7		34 33		
	6A-2	10.5	1/4			6.01	34.5	17	19	7		33		
	8A-3	13.8	3/8	(6.35	40	22	24	7.5		37		
	10A-4	17.3	1/2 3/4	1		8.16	44.5 48	27 32	32	8		41 45		
Use No.6	15A-6	21.7		_	-	9.53			36	_	_		- CA OA	104
Part Nu	g pressure	e resistar Applicable	nce.	_	I_	Reference	Tightening by	1.	Wrench	Hex	l _		Unit Price	Volume Discount R
Type	No.	Pipe O.D. D	R(PT)	Ε	E1	Dia. G	Hand Approx. I	L ₁	Flats h	Socket H	F	l	1 ~ 9 pc(s).	10 ~ 30 pcs
	6-1	6	1/8	4	4	3.97	30.5	14	14	14	7	20		
	6-2	6	1/4	4	4.5	6.01	33.5	17	17	14	7	23		
	8-1	8	1/8	6	4	3.97	33.5	16	17	17	7	23		
	8-2 10-2	8 10	1/4	8	7	6.01	33.5 34.5	18	17	17 19	7	23		
KTGE	10-2	10	3/8	8	9	6.35	35.5	19.5	19	19	7	24		
	12-2	12	1/4	10	7	6.01	35.5	20.5	19	22	7	24		
	8A-3	13.8	3/8	11	9	6.35	40	22.5	22	24	7.5	28		
	10A-4	17.3	1/2	14	12	8.16	44.5	30	27	32	8	32		
Use No.8	15A-6	21.7	3/4	18	16	9.53	46.5	32.5	32	36	9	34		
15A is different from improving pressure Part Number		Applicable	nce.			x Soc		appro		Tig	ghtenii	ng U	nit Price	Volume Discou Rate
Туре	No.	Pipe O.D. D	-		Н	1	Н		1		by Hand Approx. L		~ 9 pc(s).	10 ~ 30 pc:
	6	6	4		14	4	14	7	3	0	51	Т		
KTGR	8	8	6		17	7	17 7		3	1	52			
KIGN	10	10	8		17	7	19	7	7 3		54			
	12	12	10)	19	9	22	7	7 31		54			
	Part Number		_		Vren		Hex	. Б			ghtenir y Hand	ľ		Volume Discount Ra
Part Nu	ımber	Applicable				1 0	alcas L	, ,	,	,			~ 9 pc(s).	10 ~ 30 pcs
Part Nu Type	mber No.	Pipe O.D. D		I	Flats	n So	cket l	1		A	pprox.	<u> </u>	~ 3 pc(3).	10 - 00 pcs
_					lats 14	n So	14	7	2		pprox. 30.5	$\overline{}$	~ 9 pc(s).	10 - 00 pcc
_	No.	Pipe O.D. D	-			n So			_	0 3			~ 3 po(5).	10 - 00 pcs

Е

6

8

10 19

10

Flats h

14

17

17

Socket F

14

17

19

22

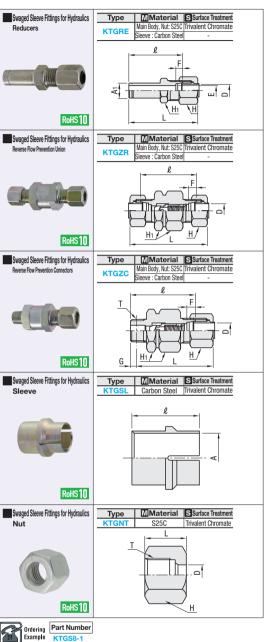
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Tightening by Hand Unit Price Nolume Discount

20 30.5

23 | 33.5

23 34.5 1 ~ 9 pc(s). 10 ~ 30 pcs.



Part Nu	ımber	Applicable		Applicable		_		Hex Socket		et _			Tightening	
Туре	No.	Nominal of Fitting		Pipe	0.D. D	Е		H ₁	Н	F		l	by Hand Approx. L	
	8-6	8		-	6	4		14	14	- 7	,	39	49.5	
	10-6	10		6		4		14	14	- 7	7	40	50.5	
KTGRE	10-8	10		8		6		17	17	7	7	40	50.5	
KIGNE	12-6	12			6	4		14	14	. 7	7	41	51.5	
	12-8	12		8		6		17	17	7	7	41	51.5	
	12-10	12		1	0	8		17	19	1 7	,	41	52.5	
Part Nu		Applicable Pipe O.D.		ating Tow		cking H ssure		ex Socke		F		l	Tightening by Hand	
Туре	No.	. D	l.	mir	n N	lPa .	١	H1	Н	Ī			Approx. L	
	10-05	10	.	18	0.	05		24	19	7	١.	49	72	
KTGZR	10-45	10	"	10	0.	45		24	10	'		10	12	
KIGZK	12-05	12		18		05		24	22	7		51	74	
	12-45	12	10		0.	0.45		24	22	'	')	74	
Feature	with a	buil	t-in	reve	rse fl	0W	preve	ention st	tructur	e.				
Part Nu	mbor	Applicable	Ratir	na T	Cracking		_	Position	Hex S	ookot		1	Tightening	
Type	No.	Pipe O.D. D	Flow	Ŭ.	Pressure MPa	R(P	T)	of Gauge Dia, G		H	F	l	by Hand Approx. L	
	10-05	10	18		0.05									
	10-45			3	0.45	1/4	4	6.01	24	19	7	53	3 58.5	
KTGZC	12-05				0.05	١.,			Ī.,				Ī.,	
	12-45	12	18	3	0.45	3/	8	6.35	24	22	7	55	60	
Feature	s: Fitting	with a	buil	t-in	reve	rse fl	OW	preve	ention s	tructur	e.			
Part Nu	ımber			-							ι	nit P		
Туре	No.			Α	١			l				1	~ 9 p	
	6			6					1	4		Ť		
							+							

Part Number			a	Unit Price	Volume Discount Rate
Туре	No.	A	l	1 ~ 9 pc(s).	10 ~ 30 pcs.
	6	6	14		
KTGSL	8	8	14		
KIGSL	10	10	15		
	12	12	15		

Part Number		D	т	H Hex	L	Unit Price	Volume Discount Rate
Туре	No.	ם	•	Socket	_	1 ~ 9 pc(s).	10 ~ 30 pcs.
	6	7.3	M12x1.5	14	15		
KTGNT	8	9.3	M14x1.5	17	15		
KIGNI	10	11.3	M16x1.5	19	16		
	12	13.3	M18x1.5	22	16		



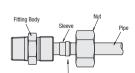


Swaged Sleeve Fittings are composed of a main body, a sleeve and a nut. [Tightening Procedure]

For utilizing performance of Swaged Sleeve Fittings for Steel Pipes, use of appropriate pipe and accurate tightening of fitting are required. The following pre-tightening will make plumbing smooth and secure.

- (1) Pre-tightening
- 1) Insert the pipe with nut and sleeve inserted as shown in right figure into the fitting body. Make sure that pipe end contacts abutment part. Inadequate swaging due to the
- inadequate tightening may cause the pipe to pull out. ②Tighten the nut by hand.
- 3 Tighten the nut with a wrench while rotating the pipe to the end of its rotation. Put a mark on this position of fitting body and the nut.
- 4) Further tighten the nut by a wrench with 1-1/4 turn at this mark.
- ⑤Loosen the nut once to see the state of the sleeve in order to confirm the following. 1) There is some millimeter distance between pipe end and sleeve end.
- 2)No substantial movement of the sleeve toward the direction of pipe axis is allowable Moving toward circumferential direction is acceptable.

Attach the pre-tightened pipe with fitting body and tighten the nut by a wrench until you feel sudden resistance. Further tighten the nut by 1/4 turn, and tightening will be done.



Make sure that the tapered end of the sleeve is facing the fitting body. If inserted backwards, pipe will not be properly swaged and may pull-off.

- [Disassembly / Retightening] Can be disassembled just by loosening the nut.
 However, never tighten and loosen the nut while
- pressurized as it is very dangerous. 8 or more disassemblies and retightening are possible by following the Full Tightening Procedure as shown in (2).

· Specifications (KTGZR / KTGZC)

10-12mm 10,12		3MPa	-20°C~120°C						
· Specifications (Other Than Above)									
Applicable	Pipe Dia.	Max. Operating Pressure	Operating Temperature Rang						
8mm	8								
6A	10.5	50MPa							
10,12mm	10,12	JUIVIPA	-20°C~250°C						
8A	13.8		-20-6~250-6						

40MPa

Applicable Pipe Dia. Max. Operating Pressure Operating Temperature Rang

Unit Price Volume
Discount Rate

Unit Price Volume

1 ~ 9 pc(s). 10 ~ 30 pcs.

Unit Price Volume

1 ~ 9 pc(s). 10 ~ 30 pcs.

I ~ 9 pc(s). 10 ~ 30 pcs.

10A 17.3 15A 21.7 [Applicable Pipes]

- (1) JIS G 3454 Carbon Steel Pipe for Pressure Service STPG370 (2) JIS G 3455 Carbon Steel Pipe for High Tressure Service STP370 (3) JIS G 3456 Carbon Steel Pipe for High Temperature Service STP370 (4) JIS G 3459 Stainless Steel Pipe for Humbing SUS304TP and SUS316TP
- (5) Japan Fluid Power Association Standard JOHS-102