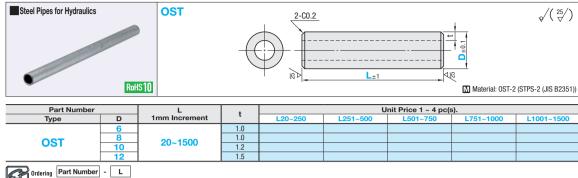
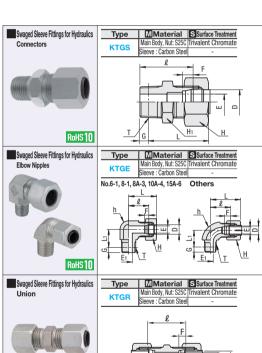
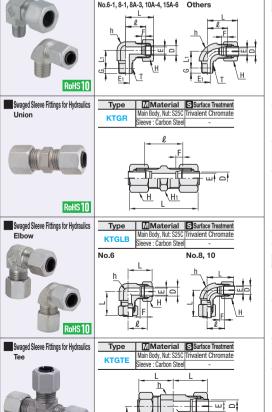
Steel Pipes for Hydraulics / Swaged Sleeve Fittings for Hydraulics

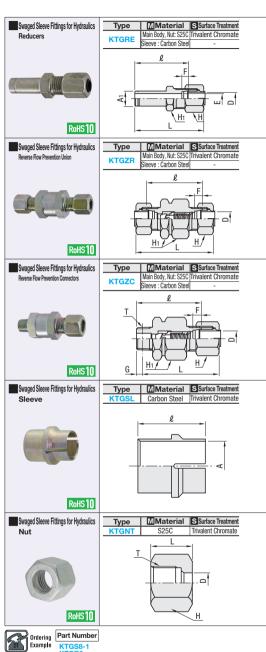






2 -1301

									+							
					+				H							
Part Nu	mber	r	Applicable	Т		E	Reference	e Tightening by	He	x Sc	ocket	F		l	Unit Price	
Type	No. 6-1		Pipe O.D. D	R(PT) 1/8		4	Dia. G	Hand Approx. L 34.5	H 14		H	7	+	и 28	1 ~ 9 pc(s). 10 ~ 30 pcs
	6-2	2	6	1/4		4	6.01	37.5	17	7	14	7		33		
	8-1 8-2		8	1/8		4 6	3.97 6.01	35.5 37.5	17		17 17	7		29 33		
	10-2	2	10	1/4		7	6.01	38.5	17	7	19	7		33		
KTGS	10-		10 12	3/8		8 7	6.35	39.0 38.5	19		19 22	7		34 33		
	6A-	2	10.5	1/4	7		6.01	34.5	17	7	19	7		33		
	8A-		13.8 17.3	3/8		9	6.35 8.16	40	22		24 32	7.5 8		37 41		
Otto No 0	15A-		21.7	3/4		6	9.53	48	32		36	9		45	04.04	104
Use No.6 15A is dif	A, 8A, ferent	1UA fror	i, 15A wi n those	ith the for KT(san GSL	ne No (P.1 :	o. of St 302). I)1∟, S1 No. 8, 10	PG_ and	」(F 112	126! have	5). Sie appro	eves x. 1.4	of N 4mm	o.6A, 8A, protrusi	, 1UA, on for
improvinç	g press	sure	resistar	ice.												
Part Nu	mber	r	Applicable Pipe O.D. D	T	Е	E ₁	Reference	ce Tightening b	, L		Vrench	Hex	F	l	Unit Price	e Volume Discount Rate
Type	No.	_	Pipe O.D. D	R(PT)	4	4	Dia. G		1		lats h	Socket H	7	20	1 ~ 9 pc(s)). 10 ~ 30 pcs
	6-1 6-2		6	1/8	4	4.5			1		17	14	7	23		
	8-1		8	1/8	6	4	3.97		1	_	17	17	7	23		
	8-2 10-2		8 10	1/4	8	7	6.01		1		17 17	17 19	7	23		
KTGE	10-		10	3/8	8	9	6.35		19	.5	19	19	7	24		
	12-2		12	1/4	10	7	6.01		20		19	22	7	24		
	8A-		13.8	3/8	11	9	6.35		22		22	24	7.5	28	-	
		-4 I	17.3 1	1/2	14	112	1 8.16	6 44.5	- 1 3	U I	2/	32	18	132	1	
	15A-	-6	17.3 21.7	3/4	14 18	12 16	9.53	3 46.5	32	.5	27 32	32 36	9	32 34		
Use No.8. 15A is dif	15A- A, 10A ferent	., 15 fror	21.7 A with ton those	3/4 he san for KT	18 ne N	16 o. of	9.53 SUT	3 46.5 , STPG	32 (P	.5 ?12	32 65). S	36 Sleeve	9 s of N	34 lo.8/	A, 10A, or	
15A is dif	A, 10A fferent press	, 15 fror sure	A with to n those resistar	3/4 he san for KT nce.	18 ne N GSL	16 lo. of (P.1	9.53 SUT_ 302). I	3 46.5 , STPG	32 (Pres app	.5 ?12 prox	32 6 5). S c. 1.4r	36 Sleeve nm pr	9 s of N otrus	34 lo.84 ion f	A, 10A, or	Volume Discouni Rate
15A is dif improving	A, 10A fferent press	, 15 from sure	21.7 A with to those resistar	3/4 he san for KT nce.	18 ne N GSL	16 0. of (P.1	9.53 SUT_ 302). I	3 46.5 , STPG No. 8 has	32 (P	.5 ?12 prox	32 65). S	36 Sleeve nm pr	9 s of N otrus	34 lo.8/ ion fo	or	
15A is dif	15A- A, 10A fferent g press	, 15 from sure	A with the state of the state o	3/4 he san for KT nce.	18 ne N GSL	16 o. of (P.1	9.53 SUT	3 46.5 , STPG No. 8 has	32 (Pres app	2.120 prox	32 6 5). S c. 1.4r	36 Gleeve nm pr	9 s of Notrus	34 lo.8/ ion fo	or nit Price	Rate
15A is dif	15A- A, 10A fferent g press	, 15 from sure	A with to those resistar Applicable Pipe O.D. D	3/4 he sam for KT	18 ne N	16 0. of (P.1	9.53 SUT_ 302). I	3 46.5 , STPG No. 8 has	32 (Ps ap)	2.5 P.120 prox	32 65). S r. 1.4r	36 Sleeve mm pr	9 s of Notrus ightenia by Han approx.	34 lo.8/ ion fo	or nit Price	Rate
15A is dif	A, 10A fferent g press mbe	-6 i, 15 i from er	A with tin those resistar Applicable Pipe 0.D. D	3/4 he sam for KT nce.	18 Ne N	16 0. of (P.1)	9.53 SUT_ 302). I	3 46.5], STPG[No. 8 has ocket H	32 (Ps app	2.12 2.12 2.12 2.12 2.12 2.12 7	32 65). S c. 1.4r	36 Sleeve mm pr	9 s of Notrus	34 lo.8/ ion fo	or nit Price	Rate
15A is dif	15A- A, 10A ifferent g press Imbe No 6	er	Applicable Pipe 0.D. D	3/4 the samfor KTince.	18 ne N	He H	9.53 SUT (302). I	9 46.5 , STPGE No. 8 has ocket H 14 17	32 (P. F. 7	2:12: Prox	32 65). S c. 1.4r	36 Sleeve mm pr	9 s of Notrus ightening Han upprox. 51	34 lo.8/ ion fo	or nit Price	Rate
Part Nu Type KTGR	No 6 8 10 12	er	Applicable Pipe 0.D. 6 8	3/4 he sam for KT nce.	18 ne NGSL	He H	9.53 SUT 302). I	9 46.5 No. 8 has ocket H 14 17 19 22	322 (P. 5 5 6 6 6 6 6 6 6 6	2:12: Prox	32 65). S (. 1.4r 2 30 3.	36 Gleeve nm pr	ghteningy Han ppprox. 51 52 54	In a second seco	nit Price ~ 9 pc(s).	Rate 10 ~ 30 pcs.
Part Nu Type KTGR	No 6 8 10 12	er	Applicable Pipe 0.D. D Applicable Applicable Applicable Applicable	3/4 he sam for KTince.	18 ne N	Hee H	9.53 SUT 302). I	3 46.5 , STPGENO. 8 has Pocket H 14 17 19 22 Hex	32 (P) (P) 7 7 7 7 7	2:12: Prox	32 65). S (. 1.4r 2 30 3.	36 Sleeve nm pr	9 s of Notrus ightenin 51 52 54 54 ightenin ightenin by Hane	No.8AA	nit Price ~ 9 pc(s).	Rate 10 ~ 30 pcs.
Part Nu Type KTGR	15AA, 10AA, 10AAA, 10AAA, 10AAA, 10AAAA, 10AAAA, 10AAAAAAAAAA	er	Applicable Pipe 0.D. Applicable Applicable Applicable Applicable Pipe 0.D. Applicable Applicable Applicable Pipe 0.D.	3/4 he san for KT ince.	18 ne N	Hee H	9.53 SUT 8302). I 144 77 77 99	3 46.5 , STPG No. 8 has ocket H 14 17 19 22 Hex ocket	32 (P) (P) 7 7 7 7 7	7 7	32 65). § 65). § 63 31 31 31 31 31	36 Sileeve nmm pr	9 s of Motrus ightenin joy Han	ng U L 1	nit Price ~ 9 pc(s).	Rate 10 ~ 30 pcs.
Part Nu Type KTGR Part Nu Type	No 6 8 10 12	er	Applicable Pipe 0.D. D Applicable Applicable Applicable Applicable	3/4 he sam for KTince.	18 ne N	Hee H	9.53 SUT Ex Sc 11 44 7 7 7	3 46.5 , STPGENO. 8 has Pocket H 14 17 19 22 Hex	32 (P) (P) 7 7 7 7 7	2.120 prox	32 65). 8 1.4rr 2 30 31 33 33	36 Sileeve nm pr	9 s of Notrus ightenin 51 52 54 54 ightenin ightenin by Hane	34 do.8A ion for forming U dd L 1	nit Price ~ 9 pc(s).	Rate 10 ~ 30 pcs.
Part Nu Type KTGR	No 6 8 10 12 12 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	er	Applicable Pipe 0.D. D Applicable Pipe 0.D. D Applicable Applicable Pipe 0.D. D 6	3/4 he sam for KT ince.	18 ne N	He He Mrer Flats	9.53 SUT XX SO2).11 44 77 77 99	8 46.5 3 STPG No. 8 has 0 cket H 14 17 19 22 Hex 0 cket	32 (P) (P) 7 7 7 7 7	:12: 12: 12: 77 77	32 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). § 65). §	36 Sileeve nnm pr	9 s of Notrus ightenin 51 52 54 54 ightenin by Hann Approx. 30.5	34 lo.8A ion for forming U 1 lo. 1 l	nit Price ~ 9 pc(s).	Rate 10 ~ 30 pcs.
Part Nu Type KTGR Part Nu Type	No 15A-A, 10A-A,	er	Applicable Pipe 0.D. Applicable Pipe 0.D. B Applicable Applicable Applicable B Applicable Applicable Applicable Applicable B Applicable Applicable B B Applicable B B B B B B B B B B B B B B B B B B B	3/4 he san for KT noe.	18 ne N	He H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.53 SUT XX SO2).11 44 77 77 99	8 46.5 3 YFGENO. 8 has 0 Cket H 14 17 19 22 Hex 0 Cket 14 17	32 (P) (P) 7 7 7 7 7	1.5 12 12 17 17 17 17 17 17	32 85). \$\cdot \cdot \	36 Sileeve nnm pr	9 s of Notrus ightenin by Han 51 52 54 54 54 30.5 33.5	34 lo.8A ion for forming U 1 lo. 1 l	nit Price ~ 9 pc(s).	Rate 10 ~ 30 pcs. Volume Discount Rain 10 ~ 30 pcs.
Part Nu Type KTGR Part Nu Type	15A-A, 10A A, 10	er	21.7 A with t in those resistar m those resistar Applicable 0.0 D D G R R R R R R R R R R R R R R R R R	3/4 he sam for KTI nice.	18 ne N GSL	Hee H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.53 SUT	## 46.5 STPG J. STPG J. STPG J. STPG Hex Hex Hex Hex Hex Hex Hex Hex Hex	322 (P)	F 7 7 7	32 65). \$65). \$65). \$65). \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650	36 Sleeve nnm pr	9 s of Notrus ightenin 51 52 54 54 54 30.5 33.5 33.5	In the second se	nit Price ~ 9 pc(s).	Rate 10 ~ 30 pcs.
Part Nu Type KTGR Part Nu Type KTGLB	15A-A, 10A A, 10	er	21.7 A with ti m those resistar m those resistar for the control of the control o	3/4 he sam for KT/1 nce.	18 ne N GSL	Hee H 1 1 1 1 Wrer Flats 14 17	9.53 SUT	### 46.5 46.5 3 5 7 6 6 6 6 6 6 6 6 6	32 (P) (P) 7 7 7 7 7	F 7 7 7	32 85). \$\cdot \cdot \	36 Sleeve nm pr	9 s of Notrus sightenin by Han 51 52 54 54 54 30.5 33.5 34.5	34 do.8/4	or nit Price - 9 pc(s). nit Price - 9 pc(s).	Rate 10 ~ 30 pcs. Welvere Discount Rah 10 ~ 30 pcs.
Part Nu Type KTGR Part Nu Type KTGLB	A, 10A A, 10A Afferent I press Imbe No 6 8 10 12 Imbe No 6 8 10 12	er	21.7 A with ti m those resistar m those resistar Applicable Pipe 0.D. D 6 8 10 12 Applicable B 10 Applicable Pipe 0.D. D 6 Applicable Pipe 0.D. D	3/4 he sam for KTI nice.	18 ne N GSL	Hee Flats Wree Flats Wree Flats	9.53 SUT	## 46.5 decket ## 14	322 (P)		32 65). \$65). \$65). \$65). \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650. \$650	36 Sleeve nm pr	ghtenin by Han sightenin by Han sighteni	34 do.84 ion for	nit Price	Rate 10 ~ 30 pcs. Volume Discount Rate Volume Discount Rate
Part Nu Type KTGR Part Nu Type KTGLB	A, 10A A, 10A Afferent Imbee No 6 8 10 12 Imbee No 6 8 10	er	21.7 A with ti m those resistar m those resistar pipe 0.D. D 6 8 10 12 Applicable Pipe 0.D. C 6 8 10 Applicable D C Applicable D D Applicable D D D D D D D D D D D D D D D D D D D	3/4 he san for KTI note.	18 ne N	160. of (P.1) Hee	9.53 SUT 2x Sc 11 4 7 7 7 9	46.5 A6.5 A6.5	322 (PF 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	= 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	32 65). \$2 .: 1.4r	36 Sleeve nm pr	9 s of Notrus sightenin pprox. 51 52 54 54 54 30.5 33.5 33.5 34.5	ng U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nit Price	Rate 10 ~ 30 pcs. Volume Discount Rate Volume Discount Rate
Part Nu Type KTGR Part Nu Type KTGLB	15A-A, 10A (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	er	21.7 A with ti m those resistar Applicable Pipe 0.D. D 6 8 10 12 Applicable B 10 12 Applicable B 10 Applicable B 10 6 8 10 6 6 8 10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3/4 he sann for KTI coe.	18 ne NGSL	160 o. of (P.1) He H 1 1 1 Wrer Flats 14 17 17 Wre Flats 11 11 11	9.53 SUT	## 46.5 STPG No. 8 has becket 14	322 (FF 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- 120 prox	32 65). \$5 . 1.4rr	36 Sleeve nm pr	9 s of Notrus 51 52 54 54 54 54 33.5 33.5 34.5	ng U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nit Price	Rate 10 ~ 30 pcs. Volume Discount Rate Volume Discount Rate



leeve Fittings for Hydraulics	Fittings for Hydraulics Type MMaterial SSurface Treatment		ımber	Applicable	Applical	ble _	Hex	Hex Socket			_	Tightening	Unit Price	Volume Discount Rate
ers	KTGRE Main Body, Nut: S25C Trivalent Chromate	Туре	No.	Nominal Dia of Fitting A	Pipe O.	D. E	H ₁	Н	F		l	by Hand Approx. L	1 ~ 9 pc(s).	10 ~ 30 pcs.
	e		8-6	8	6	4	14	14	7	3	39	49.5		
	F F		10-6	10	6	4	14	14	7	4	10	50.5		
		KTGRE	10-8	10	8	6	17	17	7	4	10	50.5		
ina .	< TITLE	KIGHE	12-6	12	6	4	14	14		+	11	51.5		
	H ₁ H ₁		12-8	12	8	6	17	17	_	+	11	51.5		
RoHS10	L		12-10	12	10	8	17	19	7		11	52.5		
lleeve Fittings for Hydraulics	Type Material Surface Treatment	Part Nu	ımher	Annlicable	Rating	Rating Cracking		Hex Socket				Tightening	Unit Price	Volume
w Prevention Union	KTGZR Main Body, Nut: S25C Trivalent Chromate	Туре	No.	Pipe O.D.	Flow L/min	Pressure MPa	H ₁	Н	F	1	e	by Hand Approx. L	1 ~ 9 pc(s).	Discount Rate 10 ~ 30 pcs.
	l	- 71- 0	10-05			0.05						-	- 1(0)	
	F		10-45	10	18	0.45	24	19	7	4	9	72		
1		KTGZR	12-05			0.05								
			12-45	12	18	0.45	24	22	7	5	1	74		
	H1/ H/	Features: Fitting with a built-in reverse flow prevention structure.												
RoHS10	_ <u> </u>													
leeve Fittings for Hydraulics	Type Material Surface Treatment	Part Nu Type	ımber	Applicable R		cking	Position	Hex S	ocket	_	_	Tightening by Hand	Unit Price	Volume Discount Rate
w Prevention Connectors	KTGZC Main Body, Nut: S25C Trivalent Chromate Sleeve : Carbon Steel -		No.			ssure IPa	of Gauge Dia. G	H ₁	Н	F	l	Approx. L		10 ~ 30 pcs.
	· · ·		10-05	10	0.	05	0.01	0.4	10	7	- 0	E0 E		
Aunt	T F	KTGZC	10-45	10	18 0.	45 1/4	6.01	24	19	7	53	58.5		
			12-05	12	18 0.	05	6.35	24	22	7	55	60		
			12-45	12	0.	45	0.33	24	22	1	55	00		
		Feature	s: Fitting	with a bu	uilt-in re	everse flo	w preve	ntion st	ructure					
RoHS10	G_ - L										_			
lleeve Fittings for Hydraulics	Type MMaterial Surface Treatment KTGSL Carbon Steel Trivalent Chromate	Part Nu			Α			l	?		-	Init Pr	ice Disc	olume ount Rate
e	RIGGE Calbuil Steel Invalor offuniate	Туре	No.							1		~ 9 pc	(s). 10 -	· 30 pcs.
	l		6		6			14			-			
		KTGSL	8	8			14			╄				
			10		10			1.			L			
			12		12			1	5					
PoHS 10														

Part Nu	Part Number			H Hex		Unit Price	Discount Rate
Type	No.	D		Socket			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]

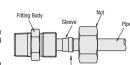
For utilizing performance of Swaged Sleeve Fittings for Steel Pipes, use of appropriate pipe and accurate tightening of fitting are required. The following pre-tightening will make plumbing smooth and secure.

(1) Pre-tightening
①Insert 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. (5) Loosen 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.

No substantial movement of the sleeve toward the direction of pipe axis is allowable Moving toward circumferential direction is acceptable.

Full Tightening
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)

Applicable	Pipe Dia.	Max. Operating Pressure	Operating Temperature Hange							
10-12mm	10,12	3MPa	-20°C~120°C							
· Specifications (Other Than Above)										
Applicable	Pipe Dia.	Max. Operating Pressure	Operating Temperature Range							
8mm	8									
6A	10.5	50MPa	-20°C~250°C							
10,12mm	10,12	JUIVIPA								
8A	13.8									
10A	17.3	40MDe								

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 Pressure Service STS370
- (3) JIS G 3456 Carbon Steel Pipe for High Temperature Service STP370 (4) JIS G 3459 Stainless Steel Pipe for Plumbing SUS304TP and SUS316TP

(5) Japan Fluid Power Association Standard JOHS-102 Accurate Carbon Steel Pipes for Hydraulics OST