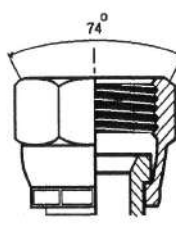
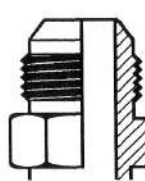
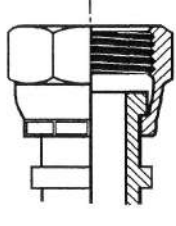
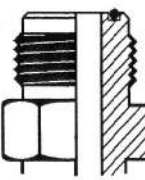


ชนิดของหัวสายไฮดรอลิค Type of Hydraulic Fittings

JIC	Dash Size	Hose Bore	Threads Per Inch	Female Thread I.D. (mm)	Male Thread O.D. (mm)	JS (price)		JM (price)	
						Straight	45/90	Straight	45/90
 	-0404	1/4"	20	9.9	11.1				-
	-0405	1/4"	20	11.5	12.7				-
	-0406	1/4"	18	12.7	14.3				-
	-0606	3/8"	18	12.7	14.3				-
	-0608	3/8"	16	17.5	19.0				-
	-0808	1/2"	16	17.5	19.0				-
	-0810	1/2"	14	20.6	22.2				-
	-1010	5/8"	14	20.6	22.2				-
	-1012	5/8"	12	24.9	27.0				-
	-1212	3/4"	12	24.9	27.0				-
	-1216	3/4"	12	31.3	33.3				-
	-1616	1"	12	31.3	33.3				-
	-1620	1"	12	39.3	41.3				-
	-2020	1.1/4"	12	39.3	41.3				-
	-2024	1.1/4"	12	45.6	47.6				-
	-2424	1.1/2"	12	45.6	47.6				-
	-2432	1.1/2"	12	61.5	63.5				-
	-3232	2"	12	61.5	63.5				-

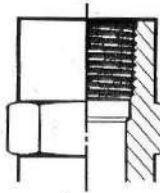
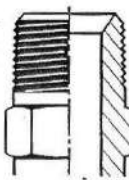
HYDRAULIC FITTINGS

JS – JM Fittings

SAE J1453	Dash Size	Hose Bore	Threads Per Inch	Female Thread I.D. (mm)	Male Thread O.D. (mm)	ORS (price)		ORM (price)	
						Straight	45/90	Straight	45/90
 	-0404	1/4"	18	12.9	14.2				-
	-0405	1/4"	-	-	-				-
	-0406	1/4"	16	15.9	17.5				-
	-0606	3/8"	16	15.9	17.5				-
	-0608	3/8"	16	19.0	20.6				-
	-0808	1/2"	16	19.0	20.6				-
	-0810	1/2"	14	23.6	25.4				-
	-1010	5/8"	14	23.6	25.4				-
	-1012	5/8"	12	28.2	30.2				-
	-1212	3/4"	12	28.2	30.2				-
	-1216	3/4"	12	34.5	36.5				-
	-1616	1"	12	34.5	36.5				-
	-1620	1"	12	40.9	42.9				-
	-2020	1.1/4"	12	40.9	42.9				-
	-2024	1.1/4"	12	48.4	50.8				-
	-2424	1.1/2"	12	48.4	50.8				-

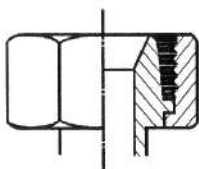
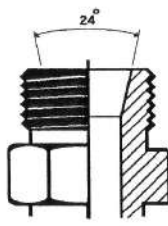
HYDRAULIC FITTINGS

ORS – ORM Fittings

NPT	Dash Size	Hose Bore	Threads Per Inch	Female Thread I.D. (mm)	Male Thread O.D. (mm)	PN (price)		PM (price)	
						Straight	45/90	Straight	45/90
	-0402	1/4"	27	9.1	Tapered Thread		-		-
	-0404	1/4"	18	11.9	Tapered Thread		-		-
	-0406	1/4"	18	15.1	Tapered Thread		-		-
	-0606	3/8"	18	15.1	Tapered Thread		-		-
	-0608	3/8"	14	19.0	Tapered Thread		-		-
	-0808	1/2"	14	19.0	Tapered Thread		-		-
	-1012	5/8"	14	24.2	Tapered Thread		-		-
	-1212	3/4"	14	24.2	Tapered Thread		-		-
	-1216	3/4"	11.1/2	30.5	Tapered Thread		-		-
	-1616	1"	11.1/2	30.5	Tapered Thread		-		-
	-1620	1"	11.1/2	38.9	Tapered Thread		-		-
	-2020	1.1/4"	11.1/2	38.9	Tapered Thread		-		-
	-2024	1.1/4"	11.1/2	45.2	Tapered Thread		-		-
	-2424	1.1/2"	11.1/2	45.2	Tapered Thread		-		-
	-2432	1.1/2"	11.1/2	57.1	Tapered Thread		-		-
	-3232	2"	11.1/2	57.1	Tapered Thread		-		-

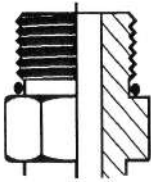
HYDRAULIC FITTINGS

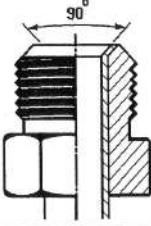
PN – PM Fittings

KOBELCO	Dash Size	Hose Bore	Thread Sizes	Female Thread I.D. (mm)	Male Thread O.D. (mm)	SC (price)		KC (price)	
						Straight	45/90	Straight	45/90
	-0606	3/8"	M20 x 1.5	18.4	20				-
	-0808	1/2"	M24 x 1.5	22.4	24				-
	-1010	5/8"	M30 x 1.5	28.4	30				-
	-1012	5/8"	M36 x 1.5	34.4	36				-
	-1212	3/4"	M36 x 1.5	34.4	36				-
	-1216	3/4"	M45 x 1.5	43.4	45				-
	-1616	1"	M45 x 1.5	43.4	45				-
									

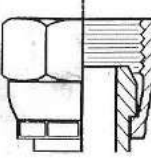
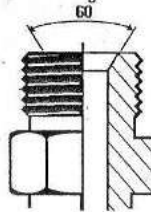
HYDRAULIC FITTINGS

SC – KC Fittings

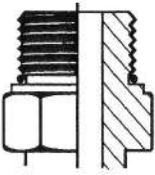
SAE O'RING	Dash	Hose	Threads		Male Thread			SMO (price)	
	Size	Bore	Per Inch		O.D. (mm)			Straight	45/90
	-0404	1/4"	20		11.1				-
	-0606	3/8"	18		14.3				-
	-0808	1/2"	16		19.0				-
	-1010	5/8"	14		22.2				-
	-1212	3/4"	12		27.0				-
	-1616	1"	12		33.3				-
	-2020	1.1/4"	12		41.3				-

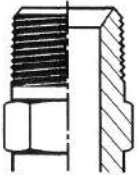
SAE INVERTED FLARE	Dash	Hose	Threads		Male Thread			IMX (price)	
	Size	Bore	Per Inch		O.D. (mm)			Straight	45/90
	-0404	1/4"	24		11.1				
	-0406	1/4"	18		15.9				
	-0606	3/8"	18		15.9				
	-0608	3/8"	18		19.0				
	-0808	1/2"	18		19.0				
	-1010	5/8"	18		22.2				
	-1212	3/4"	16		27.0				

SMO – IMX Fittings

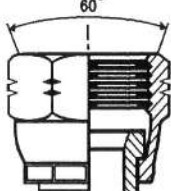
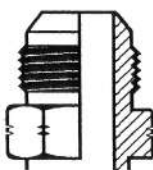
BSP	Dash	Hose	Threads	Female Thread	Male Thread	BS (price)		BM (price)	
	Size	Bore	Per Inch	I.D. (mm)	O.D. (mm)	Straight	45/90	Straight	45/90
 	-0404	1/4"	19	11.5	13				-
	-0406	1/4"	19	15.0					-
	-0606	3/8"	19	15.0					-
	-0608	3/8"	14	18.5					-
	-0808	1/2"	14	18.5					-
	-0810	1/2"	14	21.0					-
	-1010	5/8"	14	21.0					-
	-1012	5/8"	14	24.5					-
	-1212	3/4"	14	24.5					-
	-1216	3/4"	11	31.0					-
	-1616	1"	11	31.0					-
	-1620	1"	11	39.5					-
	-2020	1.1/4"	11	39.5					-
	-2024	1.1/4"	11	45.0					-
	-2424	1.1/2"	11	45.0					-
	-2432	1.1/2"	11	58.0					-
	-3232	2"	11	58.0					-

BS – BM Fittings

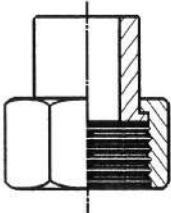
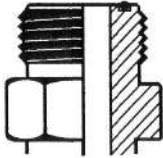
BSPP	Dash Size	Hose Bore	Threads Per Inch			Male Thread O.D. (mm)			BMO (price)	
									Straight	45/90
BMO 	-1212	3/4"	14							-
	-1616	1"	11							-
	-2020	1.1/4"	11							-

BSPT	Dash Size	Hose Bore	Threads Per Inch			Male Thread O.D. (mm)			BMT (price)	
									Straight	45/90
BMT 	-0404	1/4"	19							-
	-0606	3/8"	19							-
	-0808	1/2"	14							-
	-1010	5/8"	14							-
	-1212	3/4"	14							-
	-1616	1"	11							-
	-2020	1.1/4"	11							-
	-2424	1.1/2"	11							-
	-3232	2"	11							-

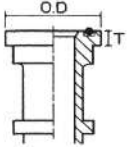
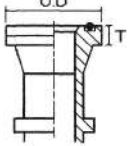
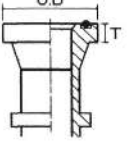
BMO – BMT Fittings

KOMATSU	Dash Size	Hose Bore	Thread Sizes	Female Thread I.D. (mm)	Male Thread O.D. (mm)	KS (price)		KM (price)	
						Straight	45/90	Straight	45/90
KS  KM 	-0404	1/4"	M14 x 1.5	12.4	14				-
	-0406	1/4"	M18 x 1.5	16.4	18				-
	-0606	3/8"	M18 x 1.5	16.4	18				-
	-0608	3/8"	M22 x 1.5	20.4	22				-
	-0808	1/2"	M22 x 1.5	20.4	22				-
	-0810	1/2"	M24 x 1.5	22.4	24				-
	-1010	5/8"	M24 x 1.5	22.4	24				-
	-1012	5/8"	M30 x 1.5	28.4	30				-
	-1212	3/4"	M30 x 1.5	28.4	30				-
	-1216	3/4"	M33 x 1.5	31.4	33				-
	-1616	1"	M33 x 1.5	31.4	33				-
	-2020	1.1/4"	M36 x 1.5	34.4	36				-
	-2424	1.1/2"	M42 x 1.5	40.4	42				-

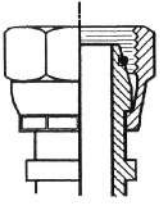
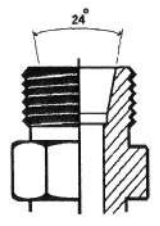
KS – KM Fittings

DUMP TRUCK	Dash	Hose	Thread	Female Thread	Male Thread	DS (price)		SMA (price)	
	Size	Bore	Sizes	I.D. (mm)	O.D. (mm)	Straight	45/90	Straight	45/90
DS 	-1212	3/4"	M32 x 1.5		32		-		-
	-1216	3/4"	M40 x 1.5		40		-		-
	-1616	1"	M40 x 1.5		40		-		-
	-1620	1"	M45 x 1.5		45		-		-
	-2020	1.1/4"	M45 x 1.5		45		-		-
	-2432	1.1/2"	M55 x 1.5		55		-		-
	-3232	2"	M55 x 1.5		55		-		-
SMA 									

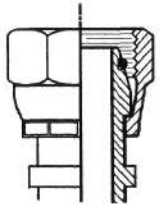
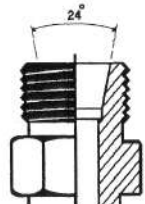
DS – SMA Fittings

FLANGES	Dash Size	Hose Bore	Flange O.D. (mm)		Flange Thickness (mm)		SA (price)		SAH (price)	
			SA	SAH	SA	SAH	Straight	22/45/60/90	Straight	22/45/60/90
	-0606	3/8"	19.0	-	-	-				
	-0608	3/8"	30.3	31.8	6.8	7.7				
	-0808	1/2"	30.3	31.8	6.8	7.7				
	-0810	1/2"	34.0	-	7.2	-				
	-1010	5/8"	34.0	-	7.2	-				
	-1012	5/8"	38.0	41.5	6.8	8.8				
	-1212	3/4"	38.0	41.5	6.8	8.8				
	-1216	3/4"	44.6	47.7	8.0	9.5				
	-1616	1"	44.6	47.7	8.0	9.5				
	-1620	1"	51.0	54.2	8.0	10.3				
	-2020	1.1/4"	51.0	54.2	8.0	10.3				
	-2024	1.1/4"	60.5	63.7	8.0	12.6				
	-2424	1.1/2"	60.5	63.7	8.0	12.6				
	-2432	1.1/2"	71.6	79.6	9.5	12.6				
	-3232	2"	71.6	79.6	9.5	12.6				
			SAC		SAC		SAC (price)			
	-1212	3/4"	41.5		14.3					
	-1216	3/4"	47.7		14.3					

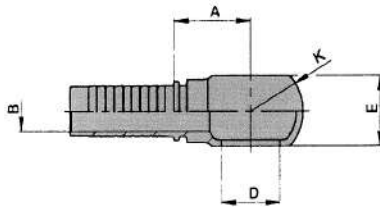
HYDRAULIC FITTINGS

DIN 3865/3853 (Light Type)	Dash Size	Hose Bore	Thread Size	Female Thread I.D. (mm)	Male Thread O.D. (mm)	PIPE (mm)	DKOL (price)		CEL (price)	
							Straight	45/90	Straight	
	-04-14	1/4"	M14 x 1.5	12.5	14	8				
	-04-16	1/4"	M16 x 1.5	14.5	16	10				
	-06-18	3/8"	M18 x 1.5	16.5	18	12				
	-06-22	3/8"	M22 x 1.5	20.5	22	15				
	-08-22	1/2"	M22 x 1.5	20.5	22	15				
	-08-26	1/2"	M26 x 1.5	24.5	26	18				
	-10-26	5/8"	M26 x 1.5	24.5	26	18				
	-12-30	3/4"	M30 x 2	28.0	30	22				
	-16-36	1"	M36 x 2	34.0	36	28				
	-20-45	1.1/4"	M45 x 2	43.0	45	35				
	-24-52	1.1/2"	M52 x 2	50.0	52	42				

HYDRAULIC FITTINGS

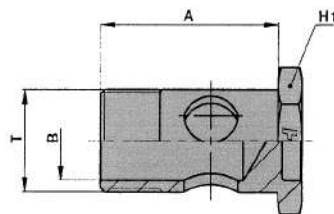
DIN 3865/3853 (Heavy Type)	Dash	Hose	Thread	Female Thread	Male Thread	PIPE	DKOS (price)		CES (price)
	Size	Bore	Size	I.D. (mm)	O.D. (mm)	(mm)	Straight	45/90	Straight
DKOS 	-04-16	1/4"	M16 x 1.5	14.5	16	8			
	-04-18	1/4"	M18 x 1.5	16.5	18	10			
	-06-20	3/8"	M20 x 1.5	18.5	20	12			
	-06-22	3/8"	M22 x 1.5	20.5	22	14			
	-08-24	1/2"	M24 x 1.5	22.5	24	16			
	-10-30	5/8"	M30 x 2	28.0	30	20			
	-12-36	3/4"	M36 x 2	34.0	36	25			
	-16-42	1"	M42 x 2	40.0	42	30			
	-20-52	1.1/4"	M52 x 2	50.0	52	38			
CES 									

HYDRAULIC FITTINGS



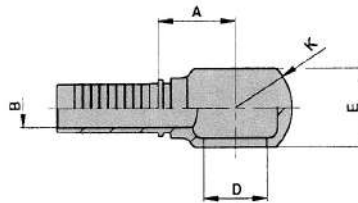
GBJ METRIC BANJO DIN 7622

PART. REF.	HOSE BORE			METRIC BOLT	DIMENSIONS mm.					
	DN	INS.	SIZE		B	A	D	E	K	
GBJ -04-12	6	1/4"	04	M 12x1,5	4,4	22,5	12	12	20	
-04-14	6	1/4"	04	M 14x1,5	4,4	23,5	14	14	24	
-05-14	8	5/16"	05	M 14x1,5	5,6	23,5	14	14	24	
-06-14	10	3/8"	06	M 14x1,5	7,1	25,1	14	14	24	
-06-16	10	3/8"	06	M 16x1,5	7,1	25,1	16	16	28	
-06-18	10	3/8"	06	M 18x1,5	7,1	27,1	18	20	32	
-08-18	12	1/2"	08	M 18x1,5	9,8	28	18	20	32	
-08-22	12	1/2"	08	M 22x1,5	9,8	31	22	25	39	
-10-22	16	5/8"	10	M 22x1,5	12,7	31,2	22	25	39	
-12-26	20	3/4"	12	M 26x1,5	15,5	34,5	26	30	46	



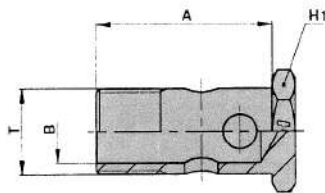
BJM METRIC BOLT DIN 7623

PART. REF.	THREAD	DIMENSIONS mm.					
		T	B	A		H1	
BJM -12	M 12x1,5		7	24		17	
-14	M 14x1,5		9	26		19	
-16	M 16x1,5		11	28		22	
-18	M 18x1,5		13	32		24	
-22	M 22x1,5		16	39		27	



GBJB BSP BANJO

PART. REF.	HOSE BORE			BSP BOLT	DIMENSIONS mm.					
	DN	INS.	SIZE		B	A	D	E	K	
GBJB -04-04	6	1/4"	04	1/4" - 19	4,4	22	13,3	15	24	
-05-06	8	5/16"	05	3/8" - 19	5,6	23	16,7	20	29	
-06-06	10	3/8"	06	3/8" - 19	7,1	24,1	16,7	20	29	
-06-08	10	3/8"	06	1/2" - 14	7,1	27,1	21	25	38	
-08-08	12	1/2"	08	1/2" - 14	9,8	27,5	21	25	38	
-10-10	16	5/8"	10	5/8" - 14	12,7	29,7	23	27	40	
-12-12	20	3/4"	12	3/4" - 14	15,5	36,5	26,5	31	48	
-16-16	25	1"	16	1" - 11	20,5	40,5	33,3	42	60	



BJMB BSP BOLT

PART. REF.	THREAD	DIMENSIONS mm.					
		T	B	A		H1	
BJMB -04	1/4" - 19	6	28,5			17	
-06	3/8" - 19	9	38,5			22	
-08	1/2" - 14	13	44			27	
-10	5/8" - 14	15	48,5			30	
-12	3/4" - 14	18	56			32	
-16	1" - 11	24	68,5			41	

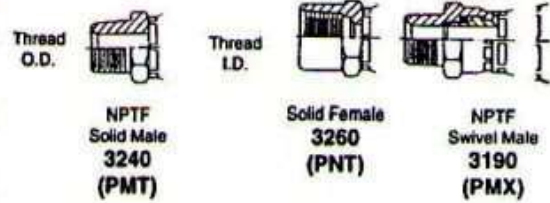
THREAD END CATALOG DESCRIPTIONS

coupling ends shown below are accepted as industry standards.

SPECIFICATIONS

Dash Size	Male Thread			Female Thread		
	Nominal Thread Size (in.)	No. Threads Per Inch	Thread O.D. (in.)	Nominal Thread Size (in.)	No. Threads Per Inch	Thread I.D. (in.)
2	1/8	27	13/32	1/8	27	21/64
4	1/4	18	31/64	1/4	18	11/32
6	3/8	18	41/64	3/8	18	11/32
8	1/2	14	21/32	1/2	14	3/4
12	3/4	14	1 1/16	3/4	14	41/64
16	1	11 1/2	1 1/8	1	11 1/2	1 1/16
20	1 1/4	11 1/2	1 5/8	1 1/4	11 1/2	1 1/8
24	1 1/2	11 1/2	1 7/8	1 1/2	11 1/2	1 3/4
32	2	11 1/2	2 1/8	2	11 1/2	2 1/4

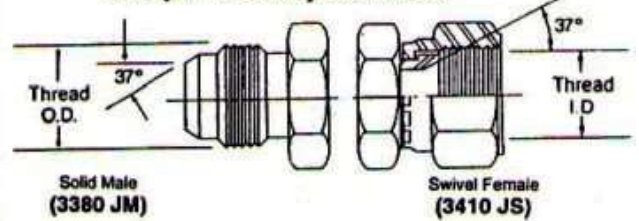
IRON PIPE THREAD FITTINGS



SPECIFICATIONS

Dash Size	Male Thread			Female Thread		
	Nominal Thread Size (in.)	No. Threads Per Inch	Thread O.D. (in.)	Nominal Thread Size (in.)	No. Threads Per Inch	Thread I.D. (in.)
2	1/16	24	1/16	1/16	24	11/64
3	3/16	24	3/16	3/16	24	21/64
4	1/8	20	7/16	1/8	20	21/64
5	1/4	20	1/2	1/4	20	21/64
6	3/8	18	5/8	3/8	18	1/2
8	1/2	16	3/4	1/2	16	11/16
10	5/8	14	7/8	5/8	14	13/16
12	1 1/16	12	1 1/16	1 1/16	12	1 1/32
14	1 1/8	12	1 3/8	1 1/8	12	1 1/16
16	1 1/4	12	1 5/8	1 1/4	12	1 3/8
20	1 3/4	12	2 1/4	1 3/4	12	2 1/8
24	2 1/8	12	2 3/4	2 1/8	12	2 1/2
32	2 3/4	12	3 1/4	2 3/4	12	3 1/8

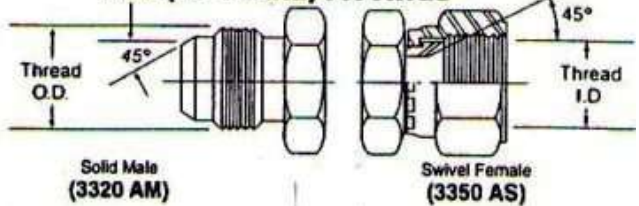
JIC (37° FLARE) FITTINGS



SPECIFICATIONS

Dash Size	Male Thread			Female Thread		
	Nominal Thread Size (in.)	No. Threads Per Inch	Thread O.D. (in.)	Nominal Thread Size (in.)	No. Threads Per Inch	Thread I.D. (in.)
2	1/16	24	3/16	1/16	24	17/64
3	3/16	24	3/8	3/16	24	21/64
4	1/8	20	7/16	1/8	20	21/64
5	1/4	20	1/2	1/4	20	21/64
6	3/8	18	5/8	3/8	18	1/2
8	1/2	16	3/4	1/2	16	11/16
10	5/8	14	7/8	5/8	14	13/16
12	1 1/16	14	1 1/16	1 1/16	14	1 1/32

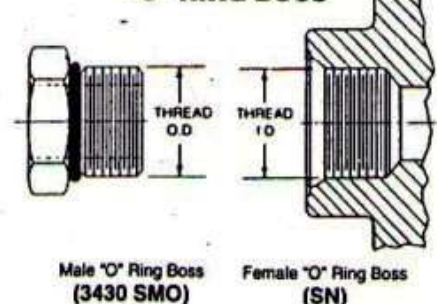
SAE (45° FLARE) FITTINGS



SPECIFICATIONS

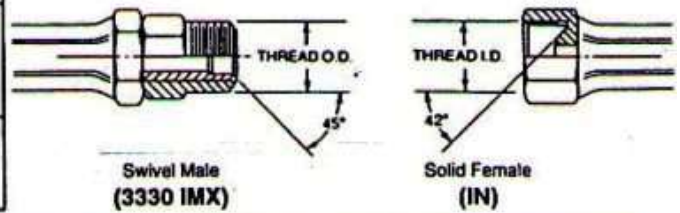
Dash Size	Male Thread			Female Thread		
	Nominal Thread Size (in.)	No. Threads Per Inch	Thread O.D. (in.)	Nominal Thread Size (in.)	No. Threads Per Inch	Thread I.D. (in.)
2	1/16	24	3/16	1/16	24	17/64
3	3/16	24	3/8	3/16	24	21/64
4	1/8	20	7/16	1/8	20	21/64
5	1/4	20	1/2	1/4	20	21/64
6	3/8	18	5/8	3/8	18	1/2
8	1/2	16	3/4	1/2	16	11/16
10	5/8	14	7/8	5/8	14	13/16
12	1 1/16	12	1 1/16	1 1/16	12	1 1/32
14	1 1/8	12	1 3/8	1 1/8	12	1 1/16
16	1 1/4	12	1 5/8	1 1/4	12	1 3/8
20	1 3/4	12	2 1/4	1 3/4	12	2 1/8
24	2 1/8	12	2 3/4	2 1/8	12	2 1/2
32	2 3/4	12	3 1/4	2 3/4	12	3 1/8

"O" RING BOSS

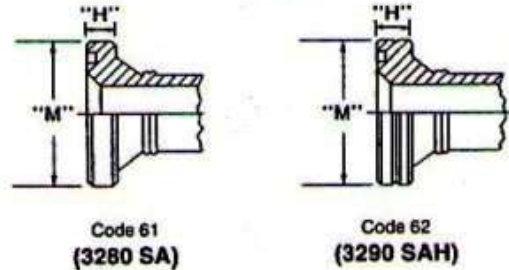


SPECIFICATIONS

Dash Size	Tube Size (In.)	Nominal Size (In.)	Male Thread		Female Thread	
			Threads O.D. (In.)	Threads O.D. (In.)	No. Threads Per Inch	Thread I.D. (In.)
2	1/8	3/16	28	3/16	28	9/32
3	3/16	3/8	24	3/8	24	21/64
4	1/4	7/16	24	7/16	24	25/64
5	5/16	1/2	20	1/2	20	29/64
6	3/8	5/8	18	5/8	18	31/64
7	1/2	3/4	18	3/4	18	35/64
8	5/8	7/8	18	7/8	18	41/64
10	3/4	1 1/8	18	1 1/8	18	13/16
12	1	1 1/2	16	1 1/2	16	1

SAE INVERTED FLARE TYPE FITTINGS**SPECIFICATIONS**

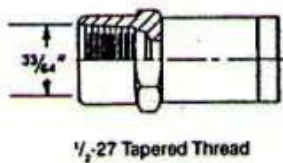
Dash Size	Code 61		Code 62	
	"M" Dim. (In.)	"H" Dim. (In.)	"M" Dim. (In.)	"H" Dim. (In.)
8	1 3/16	-	1 1/4	-
12	1 1/2	.265	1 5/8	.345
16	1 3/4	.315	1 7/8	.375
20	2	.315	2 1/8	.405
24	2 1/4	.315	2 1/2	.495
32	2 3/4	.375	3 1/8	.495
40	3 1/4	-	-	-
48	4	-	-	-
56	4 1/2	-	-	-
64	5	-	-	-

"O" RING FLANGE SAE J518**O'RING FLANGE (CODE 61-SAEJ518)**

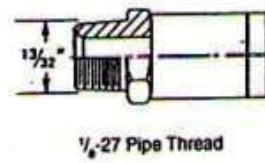
Dash Size	"A" mm.	"B" mm.	Flange Size
-0608	6.73	3.94	R 1.3/16
-0806	6.73	3.94	R 1.3/16
-0810	7.20	4.00	R 1.11/32
-1010	7.20	4.00	R 1.11/32
-1012	6.73	3.94	R 1.1/2
-1212	6.73	3.94	R 1.1/2
-1216	8.00	3.94	R 1.3/4
-1616	8.00	3.94	R 1.3/4
-1620	8.00	3.94	R 2
-2020	8.00	3.94	R 2
-2024	8.00	3.94	R 2.3/8
-2424	8.00	3.94	R 2.3/8
-2432	9.53	3.94	R 2.13/16
-3232	9.53	3.94	R 2.13/16

O' RING FLANGE (CODE 62-SAEJ518)

Dash Size	"A" mm.	"B" mm.	Flange Size
-0608	7.75	3.94	R 1.1/4
-0808	7.75	3.94	R 1.1/4
-1012	8.76	3.94	R 1.5/8
-1212	8.76	3.94	R 1.5/8
-1216	9.53	3.94	R 1.7/8
-1616	9.53	3.94	R 1.7/8
-1620	10.29	3.94	R 2.1/8
-2020	10.29	3.94	R 2.1/8
-2024	12.57	3.94	R 2.1/2
-2424	12.57	3.94	R 2.1/2
-2432	12.57	3.94	R 3.1/8
-3232	12.57	3.94	R 3.1/8

SPECIAL FEMALE GREASE FITTING

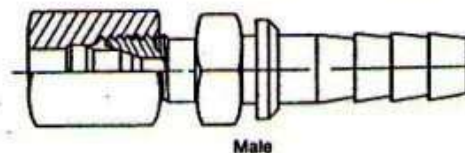
1/2-27 Tapered Thread

SPECIAL MALE GREASE FITTING

1/2-27 Pipe Thread

SPECIFICATIONS

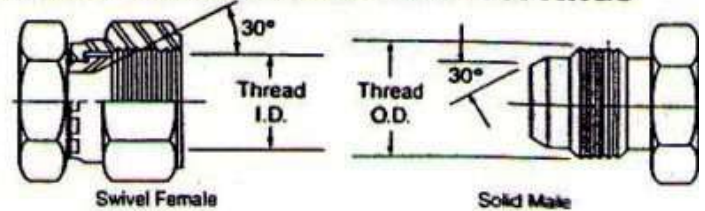
Dash Size	Thread O.D. (In.)	No. of Threads Per Inch	Nut Thread I.D. (In.)
4	7/16	20	25/64
6	9/16	18	1/2
8	3/4	16	11/16
10	7/8	14	13/16
12	1 1/8	12	21/32
16	1 1/4	12	15/16

FLARELESS TYPE FITTINGS

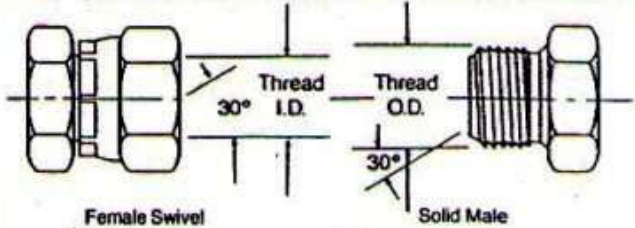
Male

SPECIFICATIONS

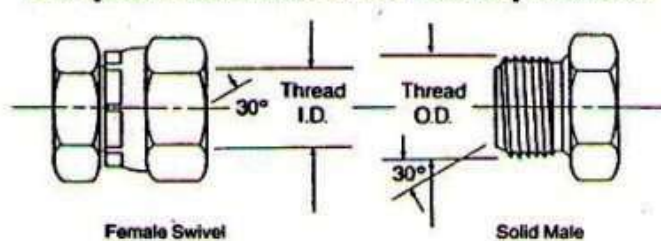
Dash Size	Nominal Thread Size (In.)	No. Threads Per Inch	Male Thread O.D. (In.)	Female Thread I.D. (In.)
16	1 ¹ / ₁₆	14	1 ¹ / ₁₆	1 ¹ / ₁₆
20	1 ¹ / ₈	14	1 ¹ / ₈	1 ¹ / ₁₆
24	1 ¹ / ₄	14	1 ¹ / ₈	1 ¹ / ₁₆
32	2 ¹ / ₂	12	2 ¹ / ₂	1 ¹ / ₄

PARKER TRIPLE THREAD FLARE FITTINGS**SPECIFICATIONS**

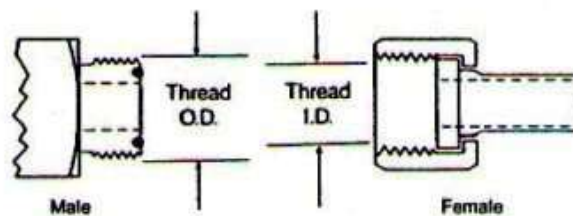
Dash Size	Nominal Thread Size (In.)	No. Threads Per Inch	Male Thread O.D. (In.)	Female Thread I.D. (In.)
4	1/4	19	.518	.451
6	3/8	19	.656	.589
8	1/2	14	.825	.734
10	5/8	14	.902	.811
12	3/4	14	1.041	.950
16	1	11	1.309	1.193

BSPP (BRITISH STANDARD PIPE PARALLEL)**SPECIFICATIONS**

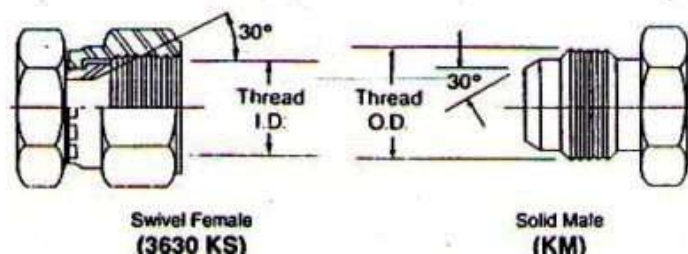
Thread Designation	Male Thread O.D. (mm.)	Female Thread I.D. (mm.)
M14 x 1.5	14.0	12.5
M16 x 1.5	16.0	14.5
M22 x 1.5	22.0	20.5
M24 x 1.5	24.0	22.5
M26 x 1.5	26.0	24.5
M30 x 2.0	30.0	27.9
M36 x 2.0	36.0	33.9
M42 x 2.0	42.0	39.9

DIN (DEUTSCH INDUSTRY NORM) METRIC**SPECIFICATIONS**

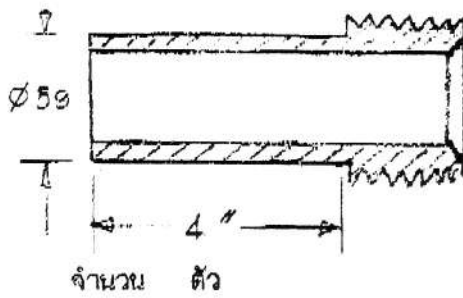
Dash Size	Thread Size	Male Thread O.D. (In.)	Female Thread I.D. (In.)
4	9/16-18	9/16	1/2
6	11/16-16	11/16	5/8
8	13/16-16	13/16	3/4
10	1-14	1	13/16
12	1 1/16-12	1 1/16	1 1/32
16	1 7/16-12	1 7/16	1 1/16
20	1 11/16-12	1 11/16	1 9/32
24	2-12	2	1 29/32

FFOR (FLAT-FACE "O" RING)**SPECIFICATIONS**

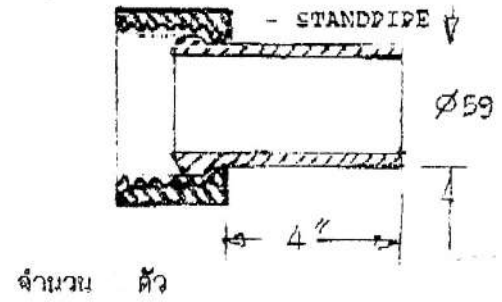
Dash Size	Male Thread O.D. (mm.)	Female Thread I.D. (mm.)	Thread Pitch (mm.)
6	18.00	16.38	1.5
8	22.00	20.38	1.5
10	24.00	22.37	1.5
12	30.00	28.37	1.5
16	33.00	31.37	1.5
20	36.00	34.38	1.5
24	42.00	40.38	1.5

JAPANESE (KOMATSU) METRIC FLARE FITTINGS

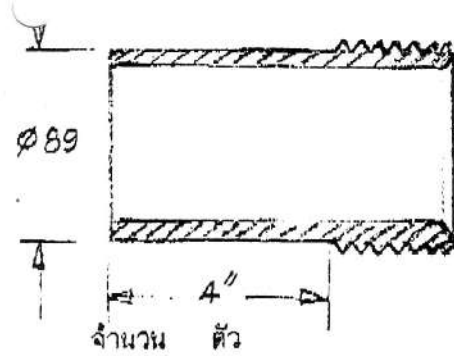
1) 2" BSPT MALE - STANDPIPE



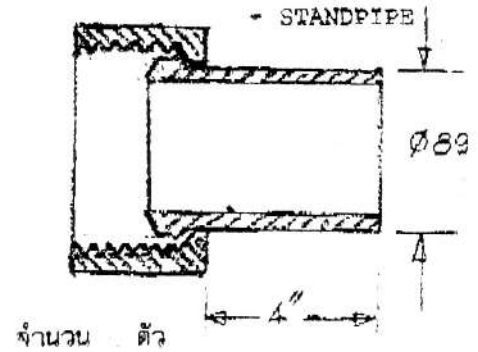
2) 2" BSPT FEMALE SWIVEL LOCK NUT - STANDPIPE



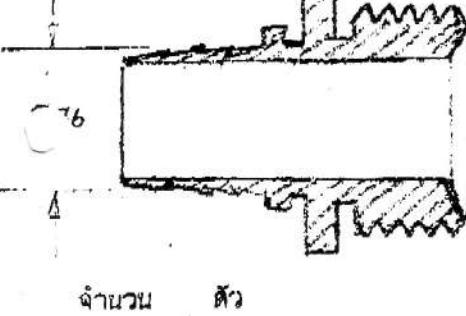
3) 3" BSPT MALE - STANDPIPE



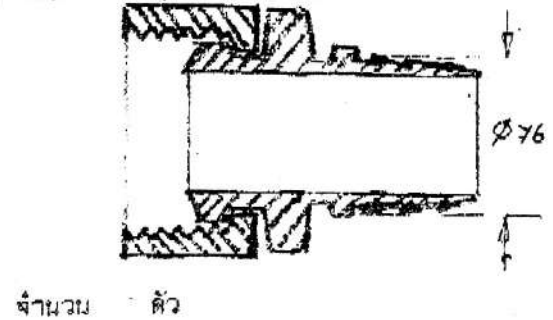
4) 3" BSPT FEMALE SWIVEL LOCK NUT - STANDPIPE



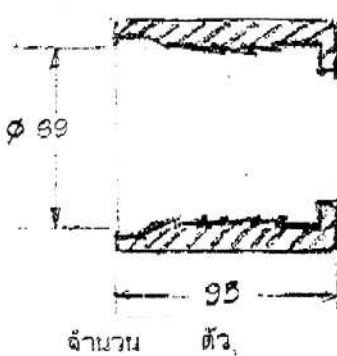
5) CBM-4848 (3" - 11 THREAD SIZE)



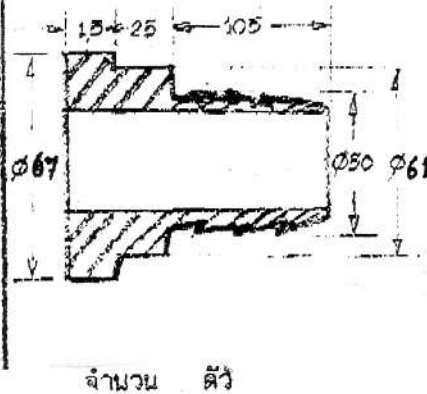
6) GBS-4848 (3" - 11 THREAD SIZE)



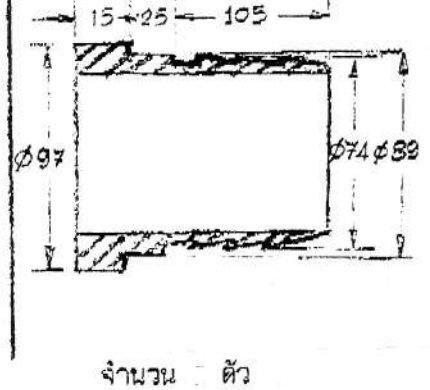
7) SLEEVE 3" (MS-48)



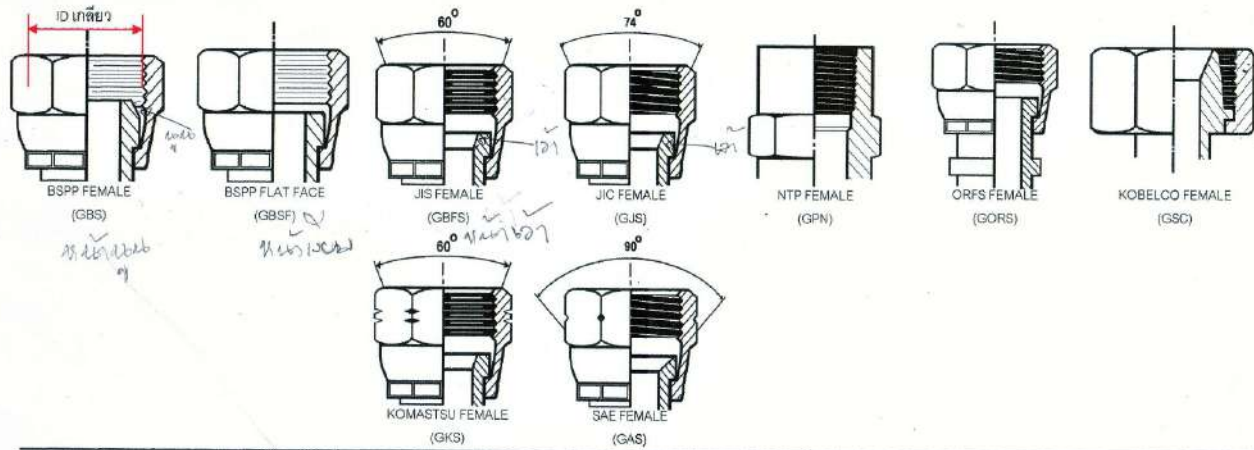
8) 2" INSERT



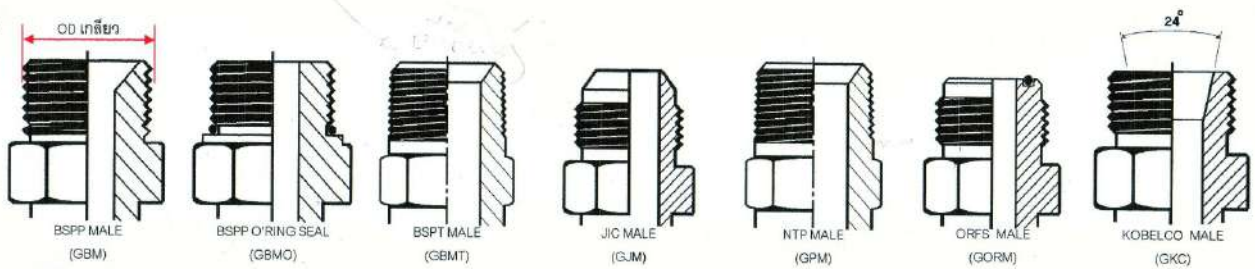
9) 3" INSERT



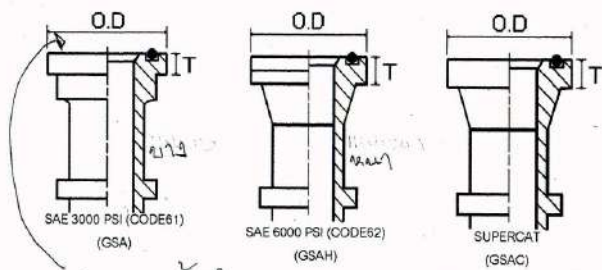
หัวตัวเมีย



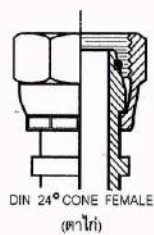
หัวตัวผู้ ตามแบบมาตรฐานหรือคอก



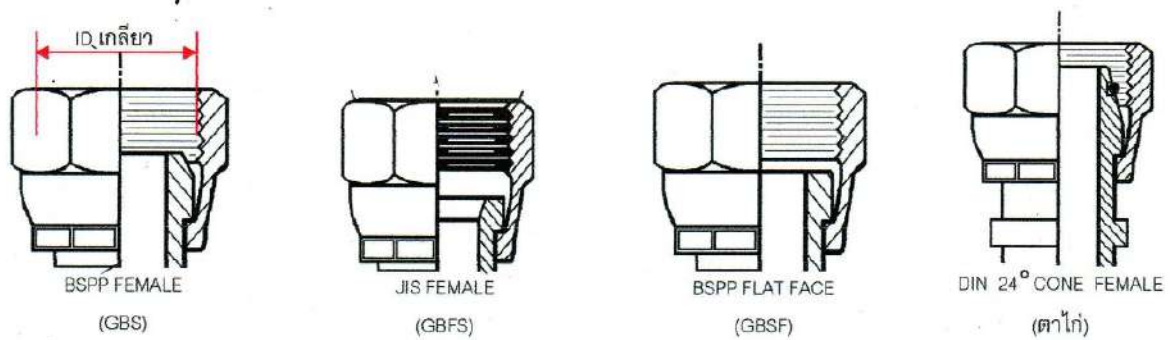
หน้าแปลน



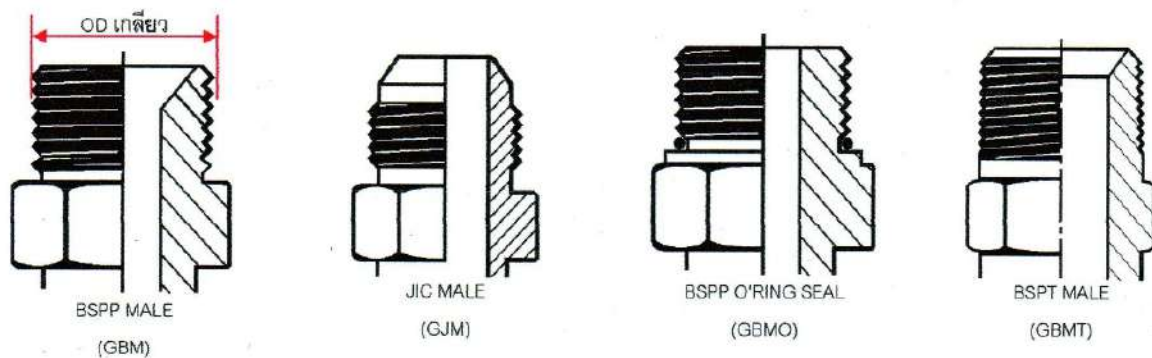
หัวตาไก่



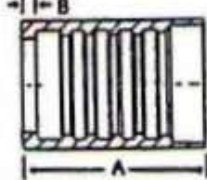
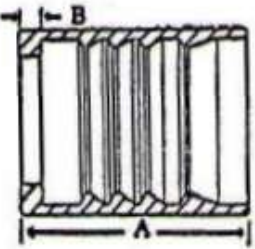
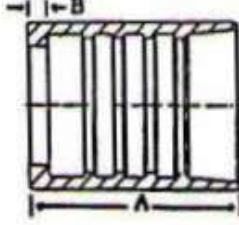
หัวตัวเมีย



หัวตัวผู้

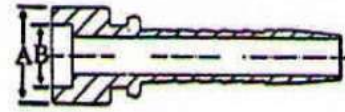


1. หัวเป็น ตัวเมีย หรือ ตัวผู้
2. เทเปอร์ เวก้า หรือ หนุน
3. ถ้าเป็นตัวเมียให้วัด ID เกลียว ของ หัวตัวเมีย ค่าที่ได้ = _____
4. ถ้าเป็นตัวผู้ให้วัด OD เกลียว ของ หัวตัวผู้ ค่าที่ได้ = _____
5. เกลียวเป็น เกลียวน้ำ/หยาบ หรือ เกลียวมิน/ละเอียด

PART NO.	O.D. FERRULE (mm.)	I.D. FERRULE (mm.)	"A" (mm.)	"B" (mm.)	FERRULE
E2A-04	20.60	16.20	35.00	3.70	E2A 
E2A-06	23.40	17.80	38.00	3.90	
E2A-08	28.60	21.80	42.00	3.70	
E2A-10	31.20	24.40	47.50	4.70	
E2A-12	35.00	28.40	50.00	4.70	
E2A-16	44.50	37.00	55.00	4.70	
E2A-20	55.50	46.60	72.00	5.50	
					SKIVE FERRULE
BR-04	21.26	16.20	25.40	2.00	BR 
BR-06	23.40	19.40	25.40	2.00	
BR-08	28.60	21.80	31.60	2.20	
BR-10	31.20	24.40	31.60	2.20	
BR-12	35.00	28.40	37.40	2.40	
BR-16	44.45	37.00	50.00	4.00	
BR-20	55.50	46.40	70.40	5.00	
					SKIVE FERRULE
MS-04	22.60	16.00	35.00	3.70	MS 
MS-06	27.20	20.20	38.00	3.90	
MS-08	32.50	25.00	42.00	3.70	
MS-10	34.50	26.90	47.50	4.70	
MS-12	38.00	30.50	50.00	4.70	
MS-16	47.50	39.40	55.00	4.70	
MS-20	57.00	48.30	72.00	5.50	
MS-24	65.00	55.40	74.50	6.40	
MS-32	80.14	68.40	89.00	6.40	
					SKIVE FERRULE

PART NO.	HOSE BORE (inch.)	"A" (inch.)	"B" (mm.)		GLVR
GLVR-0404	1/4	9/16	9		

GLVR-0406	1/4	3/16	8	
GLVR-0406	1/4	3/4	12	
GLVR-0606	3/8	3/4	12	
GLVR-0608	3/8	15/16	14	
GLVR-0808	1/2	15/16	14	
GLVR-0810	1/2	1	16	
GLVR-1010	5/8	1	16	
GLVR-1012	5/8	1.3/16	20	
GLVR-1212	3/4	1.3/16	20	
GLVR-1216	3/4	1.1/2	26	
GLVR-1616	1	1.1/2	26	
GLVR-1620	1	1.7/8	32	
GLVR-2020	1.1/4	1.7/8	32	
GLVR-2024	1.1/4	2.1/8	38	
GLVR-2424	1.1/2	2.1/8	38	

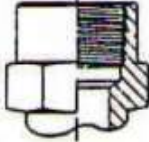


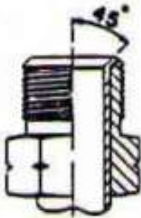
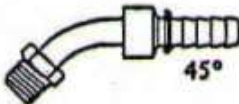
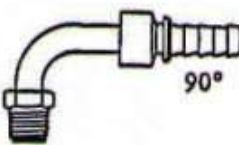
FOR BRAZING

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GULM
GULM-0414	1/4	M14 x 1.5	
GULM-0416	1/4	M16 x 1.5	
GULM-0616	3/8	M16 x 1.5	
GULM-0618	3/8	M18 x 1.5	
GULM-0822	1/2	M22 x 1.5	
GULM-1226	5/8	M26 x 1.5	
GULM-1230	3/4	M30 x 2.0	
GULM-1636	1	M36 x 2.0	
GULM-2045	1.1/4	M45 x 2.0	
GULM-2452	1.1/2	M52 x 2.0	

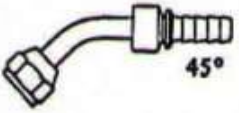
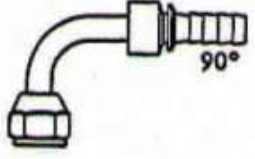
METRIC MALE LIGHT

[illegible]

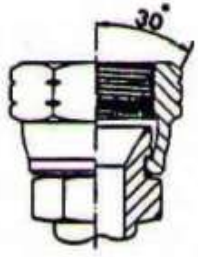
PART NO.	HOSE BORE (inch.)	THREAD SIZE	GPNT
GPNT-0404	1/4	1/4" - 18	 · NPT FEMALE TAPPED HOLE
GPNT-0406	1/4	3/8" - 18	
GPNT-0606	3/8	3/8" - 18	
GPNT-0608	3/8	1/2" - 14	
GPNT-0808	1/2	1/2" - 14	
GPNT-1012	5/8	3/4" - 14	
GPNT-1212	5/8	3/4" - 14	

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GIMX
GIMX-0404	1/4	7/16" - 24	  
GIMX-0406	1/4	5/8" - 18	
GIMX-0606	3/8	5/8" - 18	
GIMX-0608	3/8	3/4" - 18	
GIMX-0808	1/2	3/4" - 18	

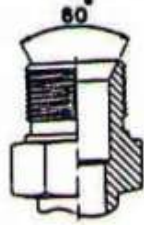
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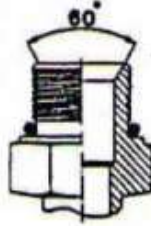
PART NO.	HOSE BORE (inch.)	THREAD SIZE	GORS
GORS-0404	1/4	9/16" - 18	
GORS-0606	3/8	11/16" - 16	
GORS-0808	1/2	13/16" - 16	
GORS-1010	5/8	1" - 14	
GORS-1212	3/4	1.3/16" - 12	
GORS-1616	1	1.7/16" - 12	
GORS-2020	1.1/4	1.11/16" - 12	
GORS-2424	1.1/2	2" - 12	
			 45°  90° FEMALE FLAT-FACE

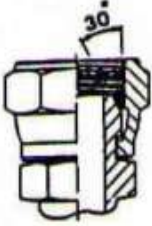
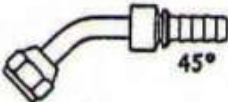
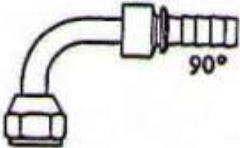
PART NO.	HOSE BORE (inch.)	THREAD SIZE	GORM
GORM-0404	1/4	9/16" - 18	
GORM-0606	3/8	11/16" - 16	
GORM-0808	1/2	13/16" - 16	
GORM-1010	5/8	1" - 14	
GORM-1212	3/4	1.3/16" - 12	
GORM-1616	1	1.7/16" - 12	
GORM-2020	1.1/4	1.11/16" - 12	
GORM-2424	1.1/2	2" - 12	
			O'RING MALE FLAT-FACE

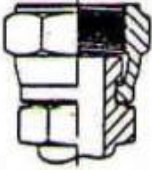
PART NO.	HOSE BORE (inch.)	THREAD SIZE	GKS
GKS-0414	1/4	M14 x 1.5	 KOMATSU MATIC FEMALE
GKS-0418	1/4	M18 x 1.5	
GKS-0618	3/8	M18 x 1.5	
GKS-0622	3/8	M22 x 1.5	
GKS-0822	1/2	M22 x 1.5	
GKS-0824	1/2	M24 x 1.5	
GKS-1024	5/8	M24 x 1.5	
GKS-1030	5/8	M30 x 1.5	
GKS-1230	3/4	M30 x 1.5	
GKS-1233	3/4	M33 x 1.5	
GKS-1633	1	M33 x 1.5	
GKS-1636	1	M36 x 1.5	
GKS-2036	1.1/4	M36 x 1.5	
GKS-2042	1.1/4	M42 x 1.5	
GKS-2442	1.1/2	M42 x 1.5	

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GKM
GKM-0414	1/4	M14 x 1.5	 KOMATSU MATIC MALE
GKM-0618	3/8	M18 x 1.5	
GKM-0822	1/2	M22 x 1.5	
GKM-1024	5/8	M24 x 1.5	
GKM-1230	3/4	M30 x 1.5	
GKM-1633	1	M33 x 1.5	
GKM-2036	1.1/4	M36 x 1.5	
GKM-2442	1.1/2	M42 x 1.5	

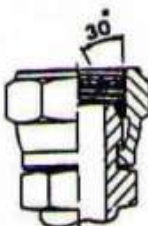
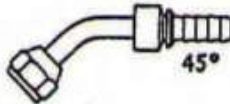
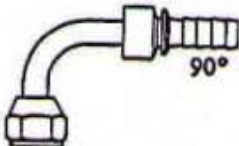
PART NO.	HOSE BORE (inch.)	THREAD SIZE	GBM
GBM-0404	1/4	1/4" - 19	
GBM-0406	1/4	3/8" - 19	
GBM-0606	3/8	3/8" - 19	
GBM-0608	3/8	1/2" - 14	
GBM-0808	1/2	1/2" - 14	
GBM-0810	1/2	5/8" - 14	
GBM-1010	5/8	5/8" - 14	
GBM-1012	5/8	3/4" - 14	
GBM-1212	3/4	3/4" - 14	
GBM-1216	3/4	1" - 11	
GBM-1616	1	1" - 11	
GBM-1620	1	1.1/4" - 11	
GBM-2020	1.1/4	1.1/4" - 11	
GBM-2024	1.1/4	1.1/2" - 11	
GBM-2424	1.1/2	1.1/2" - 11	
GBM-2432	1.1/2	2" - 11	
GBM-3232	2	2" - 11	
			BSP MALE NO O'RING SEAL

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GBMO
GBMO-1212	3/4	3/4" - 14	
GBMO-1616	1	1" - 11	
GBMO-2020	1.1/4	1.1/4" - 11	
			BSP MALE O'RING SEAL

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GBS
GBS-0404	1/4	1/4" - 19	   BSP FEMALE
GBS-0406	1/4	3/8" - 19	
GBS-0606	3/8	3/8" - 19	
GBS-0608	3/8	1/2" - 14	
GBS-0808	1/2	1/2" - 14	
GBS-0810	1/2	5/8" - 14	
GBS-1010	5/8	5/8" - 14	
GBS-1012	5/8	3/4" - 14	
GBS-1212	3/4	3/4" - 14	
GBS-1216	3/4	1" - 11	
GBS-1616	1	1" - 11	
GBS-1620	1	1.1/4" - 11	
GBS-2020	1.1/4	1.1/4" - 11	
GBS-2024	1.1/4	1.1/2" - 11	
GBS-2424	1.1/2	1.1/2" - 11	
GBS-2432	1.1/2	2" - 11	
GBS-3232	2	2" - 11	

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GBSF
GBSF-0404	1/4	1/4" - 19	 BSP FEMALE FLAT-FACE
GBSF-0406	1/4	3/8" - 19	
GBSF-0606	3/8	3/8" - 19	
GBSF-0608	3/8	1/2" - 14	
GBSF-0808	1/2	1/2" - 14	
GBSF-0810	1/2	5/8" - 14	
GBSF-1010	5/8	5/8" - 14	
GBSF-1012	5/8	3/4" - 14	
GBSF-1212	3/4	3/4" - 14	
GBSF-1216	3/4	1" - 11	
GBSF-1616	1	1" - 11	
GBSF-1620	1	1.1/4" - 11	
GBSF-2020	1.1/4	1.1/4" - 11	
GBSF-2024	1.1/4	1.1/2" - 11	
GBSF-2424	1.1/2	1.1/2" - 11	
GBSF-2432	1.1/2	2" - 11	
GBSF-3232	2	2" - 11	

[illegible][illegible]

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GBS
GBS-0404	1/4	1/4" - 19	   BSP FEMALE
GBS-0406	1/4	3/8" - 19	
GBS-0606	3/8	3/8" - 19	
GBS-0608	3/8	1/2" - 14	
GBS-0808	1/2	1/2" - 14	
GBS-0810	1/2	5/8" - 14	
GBS-1010	5/8	5/8" - 14	
GBS-1012	5/8	3/4" - 14	
GBS-1212	3/4	3/4" - 14	
GBS-1216	3/4	1" - 11	
GBS-1616	1	1" - 11	
GBS-1620	1	1.1/4" - 11	
GBS-2020	1.1/4	1.1/4" - 11	
GBS-2024	1.1/4	1.1/2" - 11	
GBS-2424	1.1/2	1.1/2" - 11	
GBS-2432	1.1/2	2" - 11	
GBS-3232	2	2" - 11	

PART NO.	HOSE BORE (inch.)	THREAD SIZE	GBSF
GBSF-0404	1/4	1/4" - 19	
GBSF-0406	1/4	3/8" - 19	
GBSF-0606	3/8	3/8" - 19	
GBSF-0608	3/8	1/2" - 14	
GBSF-0808	1/2	1/2" - 14	
GBSF-0810	1/2	5/8" - 14	
GBSF-1010	5/8	5/8" - 14	
GBSF-1012	5/8	3/4" - 14	
GBSF-1212	3/4	3/4" - 14	
GBSF-1216	3/4	1" - 11	
GBSF-1616	1	1" - 11	
GBSF-1620	1	1.1/4" - 11	
GBSF-2020	1.1/4	1.1/4" - 11	
GBSF-2024	1.1/4	1.1/2" - 11	
GBSF-2424	1.1/2	1.1/2" - 11	
GBSF-2432	1.1/2	2" - 11	
GBSF-3232	2	2" - 11	

BSP FEMALE FLAT-FACE