

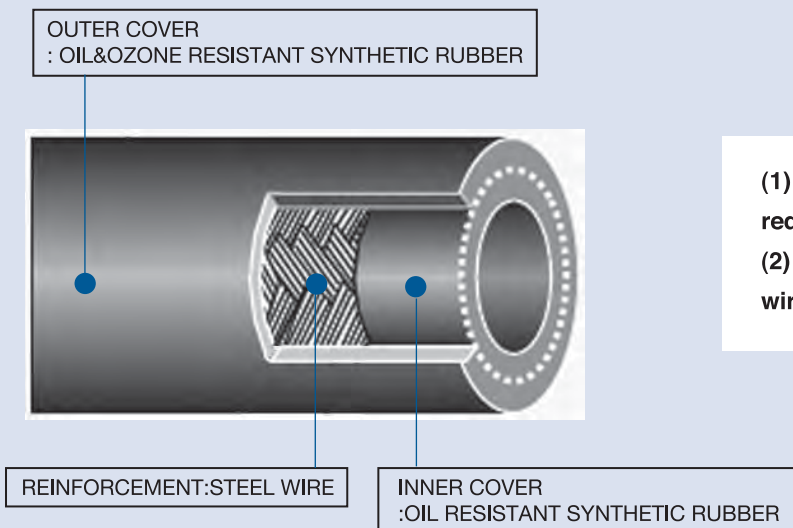
## Ultra-Light & Flexible Hydraulic Hose "SIB SERIES"

### SIB SERIES (FLEDYACE)

#### INTRODUCTION

There have been remarkably increased requirement for development of slim, light and flexible hydraulic hose to accommodate to the current trend of down-sizing of machinery. To comply with such requirements from the market, "SIB SERIES" was developed.

#### FEATURES



- (1) Outer & inner rubber thickness have been reduced by pursuing the technologies.
- (2) Developing and adopting high-tensioned wires, wire thickness as also been remarkably reduced.

#### FEATURES ◆ CHARACTERISTICS

Comparison with Conventional Hose and Other Brand Hose

SIB SERIES is remarkably thinner, lighter and more flexible than conventional hoses.

Ratio comparing to conventional hose(%)7.0MPa-9

FLEXIBILITY	Conventional Hose	100
	FLEDYACE	31
	Other Brand	105
	Plastic Hose	250

OUTER DIAMETER	Conventional Hose	100
	FLEDYACE	90
	Other Brand	99
	Plastic Hose	89

WEIGHT	Conventional Hose	100
	FLEDYACE	61
	Other Brand	100
	Plastic Hose	39

# SIB SERIES

# SIB35

## HOSE STRUCTURE

INNER COVER: OIL RESISTANT SYNTHETIC RUBBER  
 REINFORCEMENT: TEXTILE  
 OUTER COVER: OIL&OZONE RESISTANT SYNTHETIC RUBBER

## RECOMMENDED FLUIDS

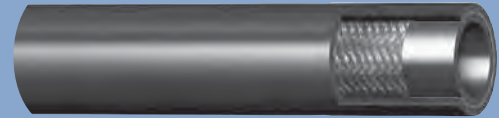
MINERAL SYNTHETIC OIL

## OPERATING TEMPERATURE

-40°C~+100°C(-40°F~+212°F)

## HOSE STRUCTURE&REINFORCEMENT

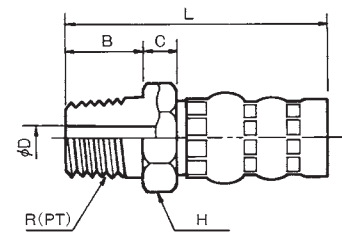
1T/B



SIZE	REINFORCEMENT	INNER DIAMETER mm (inch)	OUTER DIAMETER mm	MAX WORKING PRESSURE MPa (bar)	MIN.BURST PRESSURE MPa (bar)	MIN.BEND RADIUS mm	WEIGHT g/m
6	1 T/B	6.3(1/4)	11.5	3.5(35)	14(140)	45	100
9	1 T/B	9.5(3/8)	15.2	3.5(35)	14(140)	60	150
12	1 T/B	12.7(1/2)	18.5	3.5(35)	14(140)	80	200
19	1 T/B	19.0(3/4)	27.1	3.5(35)	14(140)	130	375
25	1 T/B	25.4(1)	33.9	3.5(35)	14(140)	165	515

SIZE	B	C	D	H	R(P.T)	L	WT
6	13	6	4.2	17	1/4	44	30
9	15	6	7.0	19	3/8	49	49
12	18	8	9.5	22	1/2	58	81
19	20	10	16.0	30	3/4	71	221
25	22	10	21.8	36	1	78	300

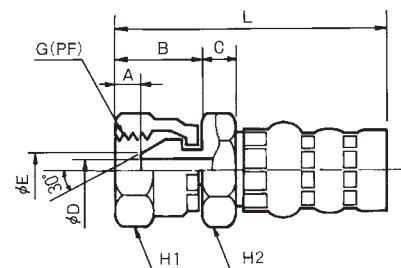
## PART NO. 1



male tapered pipe R thread type

SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	5.5	16	6	4.2	7.5	19	17	1/4	47	44
9	6.5	19	6	7	10.0	22	19	3/8	53	66
12	8.5	21.5	8	9.5	13.0	27	22	1/2	61	104
19	9	23	10	16.1	19.0	36	30	3/4	74	266
25	9.5	25.5	10	21.8	24.7	41	36	1	81	355

## PART NO. 5

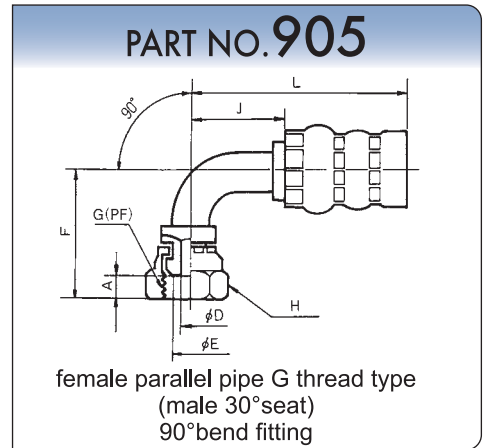


female parallel pipe G thread type  
(male 30° seat)

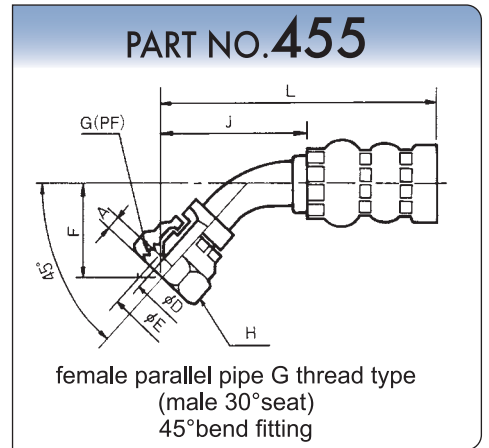
# SIB SERIES

# SIB35

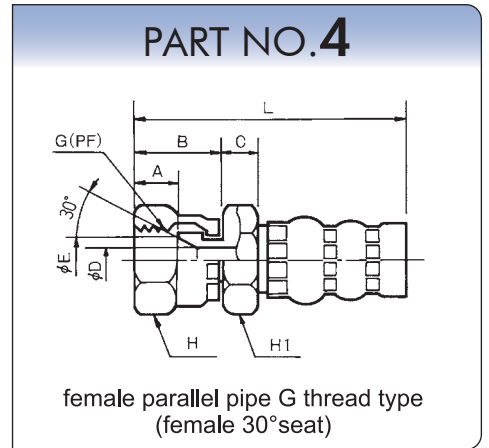
SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7	31.5	19	26	1/4	49	45
9	5.5	6.5	9.7	40	22	34	3/8	60	79
12	7.5	9.5	13	55	27	37	1/2	66	114
19	9	17	19	70	36	50	3/4	89	415
25	9.5	21	24	87	41	59	1	102	640



SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7	16.5	19	34.5	1/4	58	40
9	5.5	6.5	9.7	20.9	22	44.5	3/8	71	72
12	7.5	9.5	13	31.2	27	55.5	1/2	85	110
19	9	17	19	38	36	70	3/4	109	375
25	9.5	21	24	46.4	41	80	1	123	550



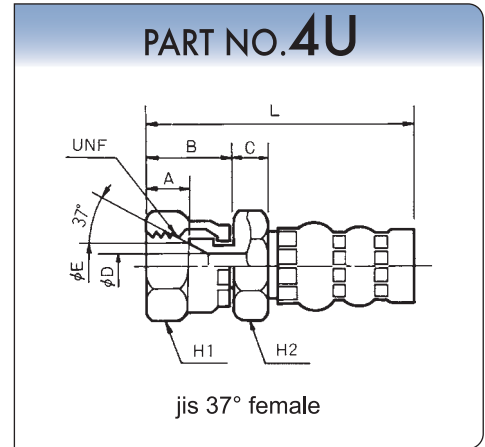
SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	8.5	16	6	4.2	9.5	19	17	1/4	47	42
9	9.5	19	6	7	13	22	19	3/8	53	61
12	11	21.5	8	9.5	16	27	22	1/2	61	98
19	12.5	23	10	16	22	36	30	3/4	74	266
25	12.5	25.5	10	21.8	28	41	36	1	81	300



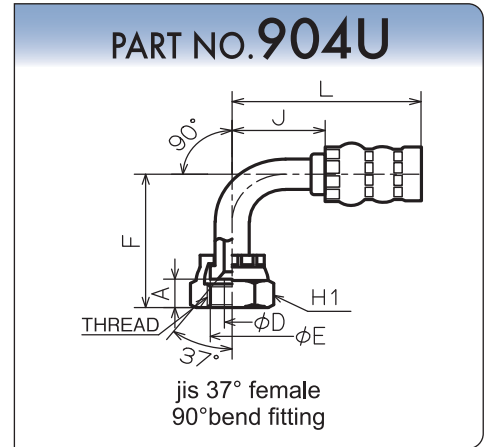
# SIB SERIES

# SIB35

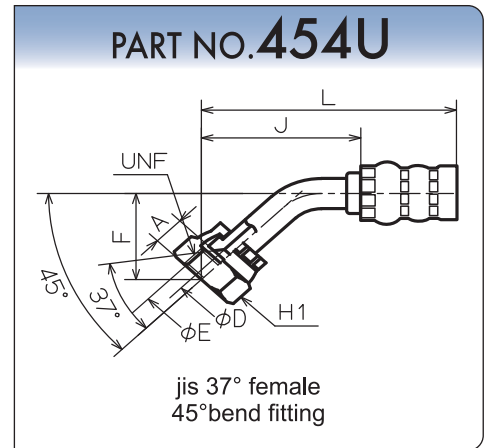
SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	8.5	16	6	4.2	7.5	17	14	7/16-20	47	44
9	9.5	18.5	6.1	6.5	11	19	17	9/16-18	53	51
12	11	20.7	8.4	9.5	14.5	27	22	3/4-16	63	105
19	12.5	23.0	10	16.1	21.5	36	30	1-1/16-12	74	242
25	12.5	25.5	10	21.8	28	41	36	1-5/16-12	81	355



SIZE	A	D	F	H1	J			UNF	L	WT
6	8.5	4.2	37	17	26			7/16-20	49	43
9	9.5	6.5	52	19	34			9/16-18	61	61
12	11	9.5	55	27	39			3/4-16	69	136



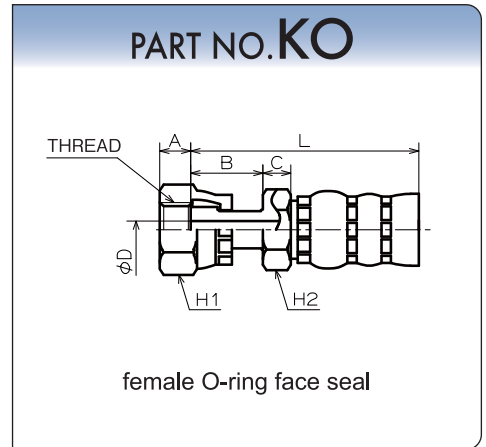
SIZE	A	D	F	H1	J			UNF	L	WT
6	8.5	4.2	21	17	41			7/16-20	64	37
9	9.5	6.5	32	19	52			9/16-18	79	58
12	11	9.5	29.6	27	55.4			3/4-16	85	120



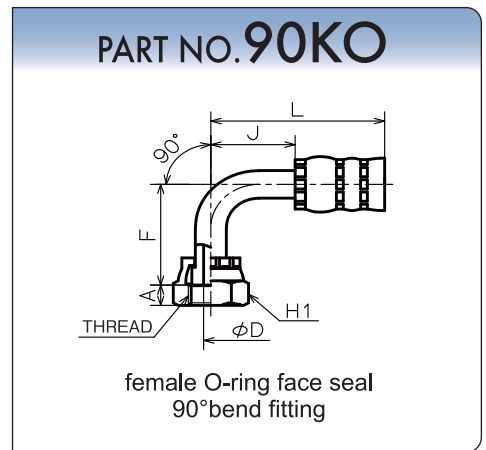
# SIB SERIES

# SIB35

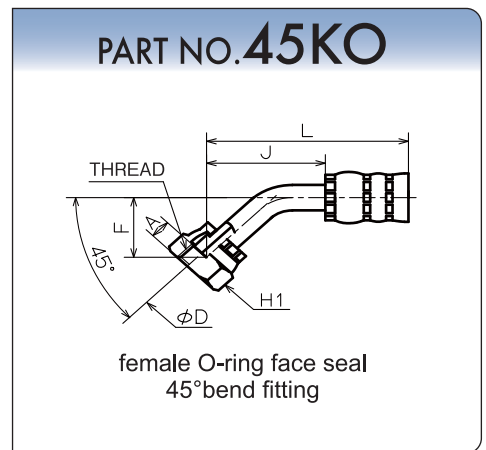
SIZE	A	B	C	D	H1	H2	UNF	L	WT
6	8.5	17.5	6	4.2	19	17	9/16-18	49	50
9	9	18.5	6	6.5	22	19	11/16-16	53	70
12	10	19.3	8.4	9.5	27	22	13/16-16	61	106



SIZE	A	D	F	H1	J	UNF	L	WT
6	8.5	4.2	30	19	26	9/16-18	49	49
9	9	6.5	37	22	34	11/16-16	61	80
12	10	9.5	43.5	27	37	13/16-16	67	132



SIZE	A	D	F	H1	J	UNF	L	WT
6	8.5	4.2	21	19	41	9/16-18	64	49
9	9	6.5	22	22	54.9	11/16-16	81	80
12	10	9.5	22	27	51	13/16-16	81	121



# SIB SERIES

# SIB70

## HOSE STRUCTURE

INNER COVER: OIL RESISTANT SYNTHETIC RUBBER  
 REINFORCEMENT: STEEL WIRE  
 OUTER COVER: OIL&OZONE RESISTANT SYNTHETIC RUBBER

## RECOMMENDED FLUIDS

MINERAL SYNTHETIC OIL

## OPERATING TEMPERATURE

-40°C~+100°C(-40°F~+212°F)

## HOSE STRUCTURE&REINFORCEMENT

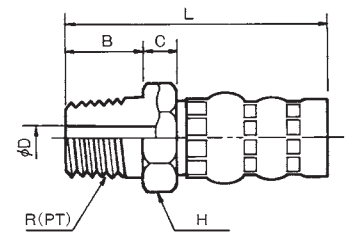
1W/B



SIZE	REINFORCEMENT	INNER DIAMETER mm (inch)	OUTER DIAMETER mm	MAX WORKING PRESSURE MPa (bar)	MIN.BURST PRESSURE MPa (bar)	MIN.BEND RADIUS mm	WEIGHT g/m
6	1W/B	6.3 (1/4)	11.5	7 (70)	28 (280)	40	125
9	1W/B	9.5 (3/8)	14.9	7 (70)	28 (280)	50	170
12	1W/B	12.7 (1/2)	18.3	7 (70)	28 (280)	60	285
15	1W/B	15.9 (5/8)	22.1	7 (70)	28 (280)	80	400
19	1W/B	19.0 (3/4)	25.5	7 (70)	28 (280)	100	490
25	1W/B	25.4 (1)	31.8	7 (70)	28 (280)	120	620

SIZE	B	C	D	H	R(PT)	L	WT
6	13	6	4.2	17	1/4	44	30
9	15	6	7.0	19	3/8	49	49
12	18	8	9.5	22	1/2	58	81
15	20	10	16.0	30	3/4	67	190
19	20	10	16.0	30	3/4	69	221
25	22	10	21.8	36	1	76	300

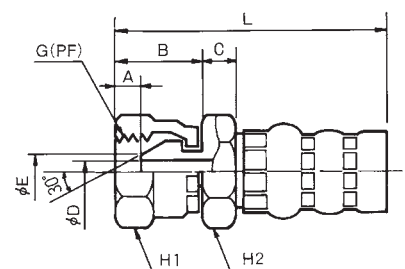
## PART NO. 1



male tapered pipe R thread type

SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	5.5	16	6	4.2	7.5	19	17	1/4	47	44
9	6.5	19	6	7.0	10.0	22	19	3/8	53	66
12	8.5	21.5	8	9.5	13.0	27	22	1/2	61	104
15	9	23.0	10	16.0	19.0	36	30	3/4	70	220
19	9	23.0	10	16.1	19.0	36	30	3/4	72	266
25	9.5	25.5	10	21.8	24.7	41	36	1	79	355

## PART NO. 5

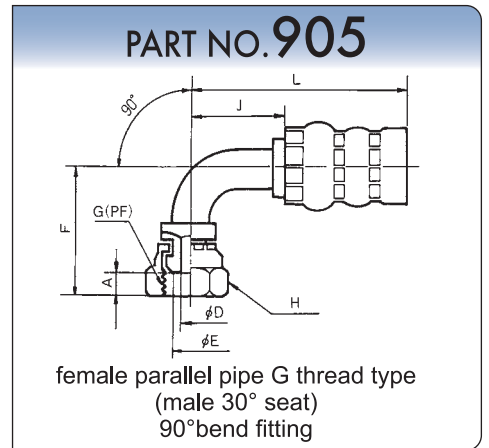


female parallel pipe G thread type  
(male 30° seat)

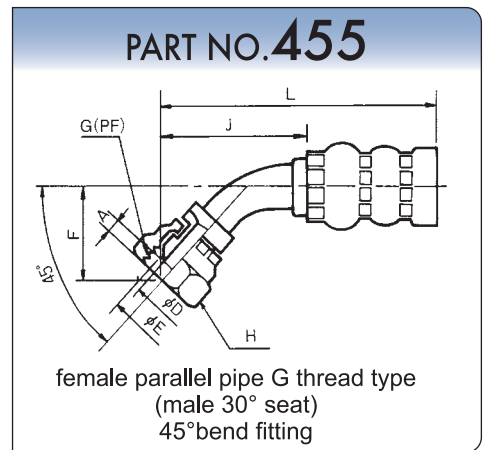
# SIB SERIES

# SIB70

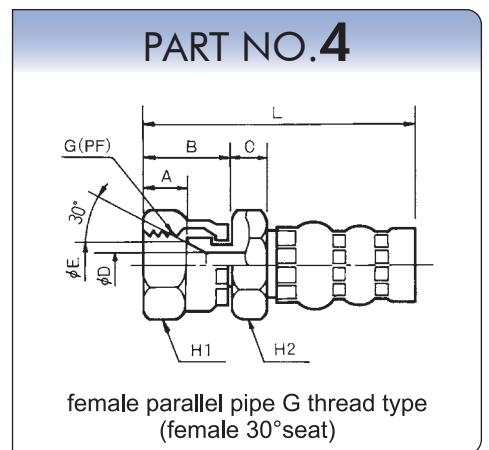
SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7	31.5	19	26	1/4	49	45
9	5.5	6.5	9.7	40	22	34	3/8	60	79
12	7.5	9.5	13	55	27	37	1/2	66	114
15	9.0	13.6	19	70	36	50	3/4	85	380
19	9.0	17.0	19	70	36	50	3/4	87	415
25	9.5	21.0	24	87	41	68	1	109	640



SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7.0	16.5	19	34.5	1/4	58	40
9	5.5	6.5	9.7	20.9	22	44.5	3/8	71	72
12	7.5	9.5	13.0	31.2	27	55.5	1/2	85	110
15	9.0	13.6	19.0	38	36	70	3/4	105	340
19	9.0	17.0	19.0	38	36	70	3/4	107	375
25	9.5	21.0	24.0	46.5	41	91	1	132	550



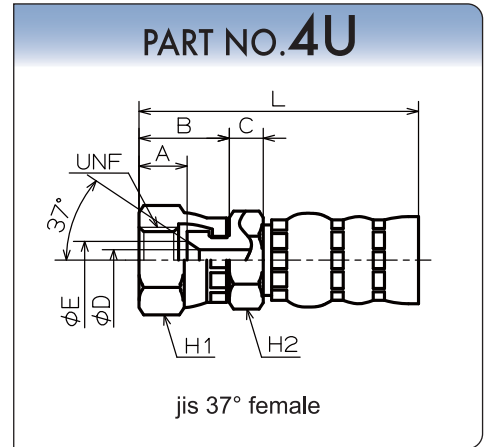
SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	8.5	16	6	4.2	9.5	19	17	1/4	47	44
9	9.5	19	6	7	13	22	19	3/8	53	66
12	11	21.5	8	9.5	16	27	22	1/2	61	104
15	12.5	23	10	16	22	36	30	3/4	70	220
19	12.5	23	10	16	22	36	30	3/4	72	266
25	12.5	25.5	10	21.8	28	41	36	1	79	355



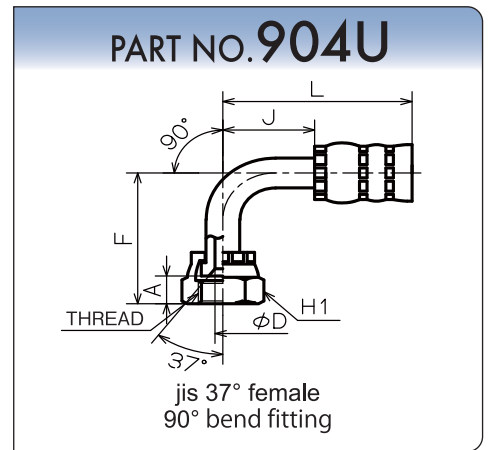
# SIB SERIES

# SIB70

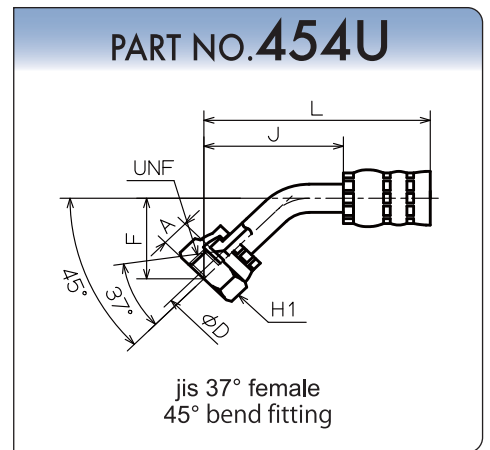
SIZE	A	B	C	D	E	H1	H2	UNF	L	WT
6	8.5	16	6	4.2	7.5	17	14	7/16-20	47	44
9	9.5	18.5	6.1	6.5	11	19	17	9/16-18	53	51
12	11	20.7	8.4	9.5	14.5	27	22	3/4-16	63	105
15	12	23.5	10	13.0	17.5	32	30	7/8-14	69	200
19	12.5	23.0	10	16.1	21.5	36	30	1-1/16-12	72	240
25	12.5	25.5	10	21.8	28	41	36	1-5/16-12	81	315



SIZE	A	D	F	H1	J	SIZE	UNF	L	WT
6	8.5	4.2	37	17	26		7/16-20	49	43
9	9.5	6.5	52	19	34		9/16-18	61	61
12	11	9.5	55	27	39		3/4-16	69	136
15	—	—	—	—	—		—	—	—
19	12.5	16.1	70	36	50		1-1/16-12	87	295
25	12.5	21.8	87	41	76		1-5/16-12	119	562



SIZE	A	D	F	H1	J	SIZE	UNF	L	WT
6	8.5	4.2	21	17	41		7/16-20	64	37
9	9.5	6.5	32	19	52		9/16-18	79	58
12	11	9.5	29.6	27	55.4		3/4-16	85	120
15	—	—	—	—	—		—	—	—
19	12.5	16.1	38	36	70		1-1/16-12	107	266
25	12.5	21.8	45	41	89.5		1-5/16-12	132	562

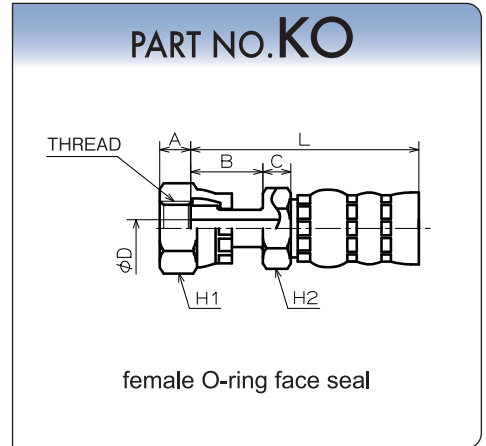




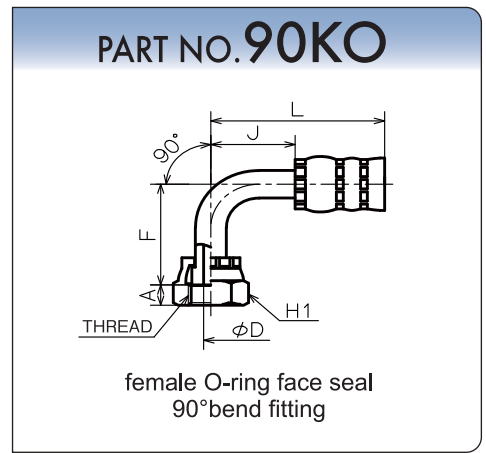
# SIB SERIES

# SIB70

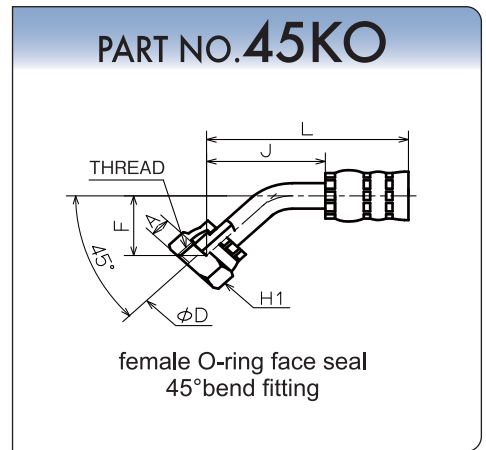
SIZE	A	B	C	D	H1	H2	UNF	L	WT
6	8.5	17.5	6	4.2	19	17	9/16-18	49	50
9	9	18.5	6	6.5	22	19	11/16-16	53	70
12	10	19.3	8.4	9.5	27	22	13/16-16	61	106
15	10.5	24.5	9.0	13	32	27	1-14	71	205
	11.5	27.5	9.0	16	36	32	1-3/16-12	74	250
19	11.5	22.5	11	15.9	36	27	1-3/16-12	71	242
25	11.5	25	11	20.5	41	32	1-7/16-12	79	345



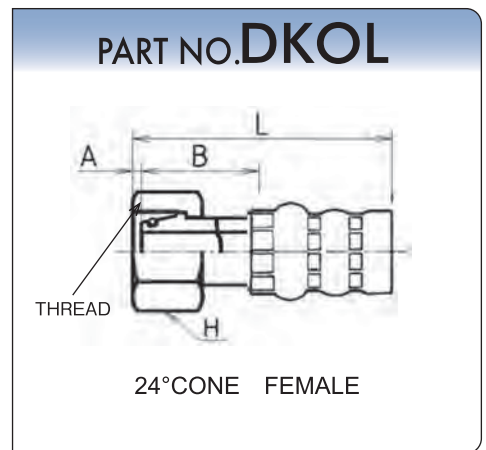
SIZE	A	D	F	H1	J		UNF	L	WT
6	8.5	4.2	30	19	26		9/16-18	49	49
9	9	6.5	37	22	34		11/16-16	61	80
12	10	9.5	43.5	27	37		13/16-16	67	132
15	10.5	13	51	32	54		1-14	89	255
	11.5	16	58	36	54		1-3/16-12	88	280
19	11.5	15.9	58	36	64		1-3/16-12	101	303
25	11.5	20.5	66	41	76		1-7/16-12	119	539



SIZE	A	D	F	H1	J		UNF	L	WT
6	8.5	4.2	21	19	41		9/16-18	64	49
9	9	6.5	22	22	54.9		11/16-16	81	80
12	10	9.5	22	27	51		13/16-16	81	121
15	10.5	13	26	32	64		1-14	99	235
	11.5	16	28	36	66		1-3/16-12	100	280
19	11.5	15.9	26	36	64		1-3/16-12	101	257
25	11.5	20.5	31.5	41	76		1-7/16-12	119	447



SIZE	A	B	H				L	THREAD	WT
6	2.0	20.8	17				45.8	M14×1.5	28
9	1.5	20.0	22				48.5	M18×1.5	56
12	2.5	22.0	27				54.5	M22×1.5	99
15	2.5	24.7	32				62.2	M26×1.5	166
19	4.0	26.0	36				67.0	M30×2.0	213
25	3.3	32.0	41				78.3	M36×2.0	354



# SIB SERIES

# SIB210

## HOSE STRUCTURE

INNER COVER: OIL RESISTANT SYNTHETIC RUBBER  
 REINFORCEMENT: STEEL WIRE  
 OUTER COVER: OIL&OZONE RESISTANT SYNTHETIC RUBBER

**RECOMMENDED FLUIDS** MINERAL SYNTHETIC OIL

## OPERATING TEMPERATURE

-40°C~+100°C(-40°F~+212°F)

## HOSE STRUCTURE&REINFORCEMENT

1W/B



2W/B



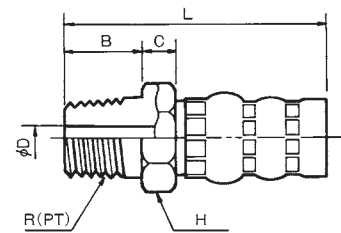
3W/B



SIZE	REINFORCEMENT	INNER DIAMETER mm (inch)	OUTER DIAMETER mm	MAX WORKING PRESSURE MPa (bar)	MIN. BURST PRESSURE MPa (bar)	MIN. BEND RADIUS mm	WEIGHT g/m
6	1W/B	6.3(1/4)	12.5	21 (210)	84 (840)	50	200
9	2W/B	9.5(3/8)	16.3	21 (210)	84 (840)	70	340
12	2W/B	12.7(1/2)	20.8	21 (210)	84 (840)	90	540
15	2W/B	15.9(5/8)	25.0	21 (210)	84 (840)	110	710
19	2W/B	19.0(3/4)	28.4	21 (210)	84 (840)	130	880
25	3W/B	25.4(1)	36.5	21 (210)	84 (840)	180	1,480

SIZE	B	C	D	H				R(P.T)	L	WT
6	13	6	4.2	17				1/4	46	38
9	15	6	7.0	19				3/8	49	60
12	18	8	9.5	22				1/2	59	96
15	20	10	16.0	30				3/4	67	190
19	20	10	16.0	30				3/4	69	221
25	22	12	21.8	36				1	83	330

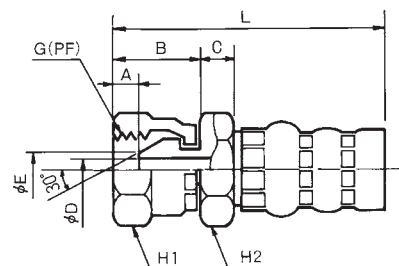
## PART NO. 1



male tapered pipe R thread type

SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	5.5	16	6	4.2	7.5	19	17	1/4	49	52
9	6.5	19	6	7.0	10.0	22	19	3/8	54	77
12	8.5	21.5	8	9.5	13.0	27	22	1/2	64	119
15	9.0	23.0	10	16	19.0	36	30	3/4	70	220
19	9.0	23.0	10	16.1	19.0	36	30	3/4	75	266
25	9.5	25.5	12	21.8	24.0	41	36	1	89	385

## PART NO. 5

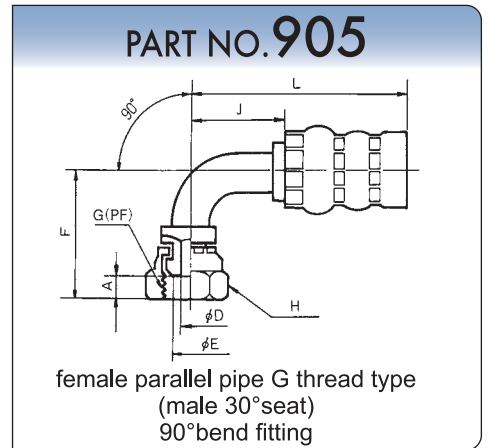


female parallel pipe G thread type  
(male 30° seat)

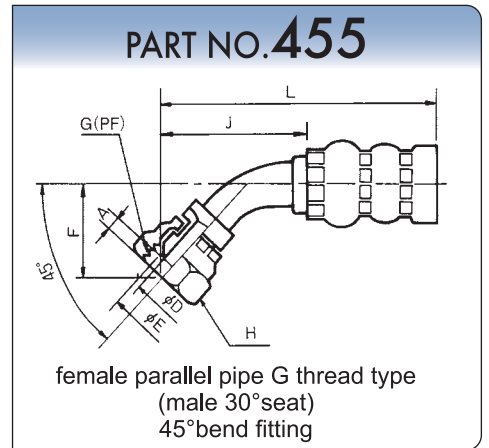
# SIB SERIES

# SIB210

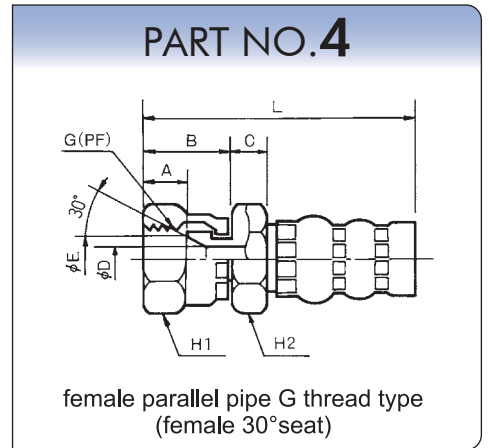
SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7.0	31.5	19	26	1/4	51	52
9	5.5	6.5	9.7	40	22	34	3/8	61	90
12	7.5	9.5	13.0	55	27	37	1/2	70	129
15	9.0	13.6	19.0	70	36	50	3/4	85	380
19	9.0	17.0	19.0	70	36	50	3/4	89	415
25	9.5	21.0	24.0	87	41	68	1	118	710



SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7.0	16.5	19	34.5	1/4	60	46
9	5.5	6.5	9.7	20.9	22	44.5	3/8	72	83
12	7.5	9.5	13.0	31.2	27	55.5	1/2	88	125
15	9.0	13.6	19.0	38	36	70	3/4	105	340
19	9.0	17	19.0	38	36	70	3/4	109	375
25	9.5	21	24.0	46.4	41	84.5	1	134	620



SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	8.5	16.0	6	4.2	9.5	19	17	1/4	49	48
9	9.5	19.0	6	7.0	13.0	22	19	3/8	54	72
12	11.0	21.5	8	9.5	16.0	27	22	1/2	64	113
15	12.5	23.0	10	16.0	22.0	36	30	3/4	70	220
19	12.5	25.0	10	16.0	22.0	36	30	3/4	75	266
25	12.5	25.5	12	21.8	28.0	41	36	1	89	330

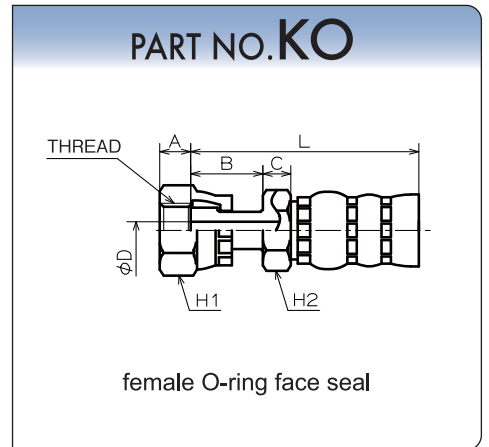




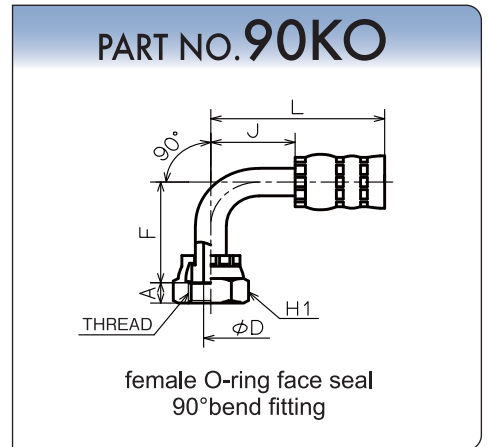
# SIB SERIES

# SIB210

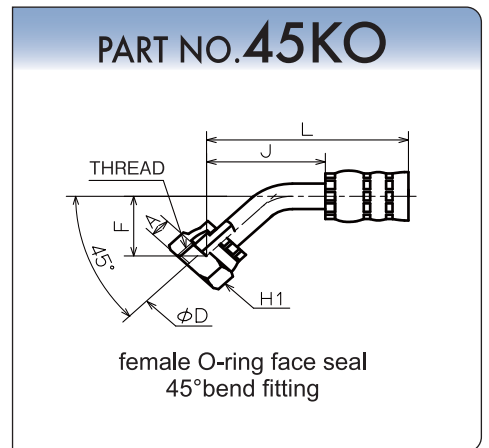
SIZE	A	B	C	D	H1	H2	UNF	L	WT
6	8.5	17.5	6	4.2	19	17	9/16-18	51	57
9	9.0	18.5	6	6.5	22	19	11/16-16	54	82
12	10.0	19.3	8.4	9.5	27	22	13/16-16	63	131
19	11.5	22.5	11	15.9	36	27	1-3/16-12	71	259
25	11	30	9	21	41	32	1-7/16-12	87	400



SIZE	A	D	F	H1	J	UNF	L	WT
6	8.5	4.2	30	19	26	9/16-18	51	56
9	9.0	6.5	37	22	34	11/16-16	61	92
12	10.0	9.5	43.5	27	37	13/16-16	70	150
19	11.5	15.9	58	36	64	1-3/16-12	103	313
25	11	21	66	41	76	1-7/16-12	126	640



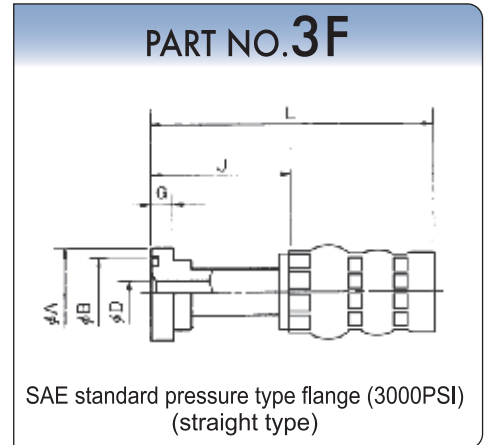
SIZE	A	D	F	H1	J	UNF	L	WT
6	8.5	4.2	21	19	41	9/16-18	66	55
9	9.0	6.5	22	22	54.9	11/16-16	82	92
12	10.0	9.5	22	27	51	13/16-16	83	140
19	11.5	15.9	26	36	64	1-3/16-12	103	270
25	11	21	31.5	41	76	1-7/16-12	126	540



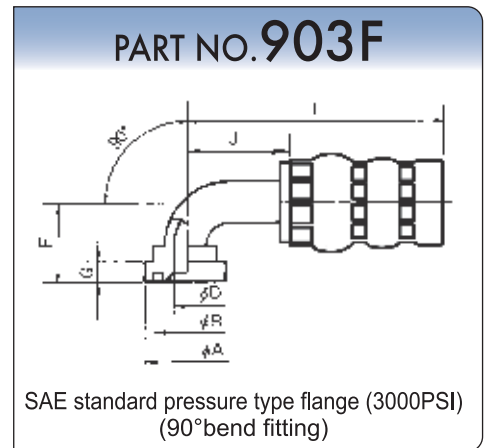
# SIB SERIES

# SIB210

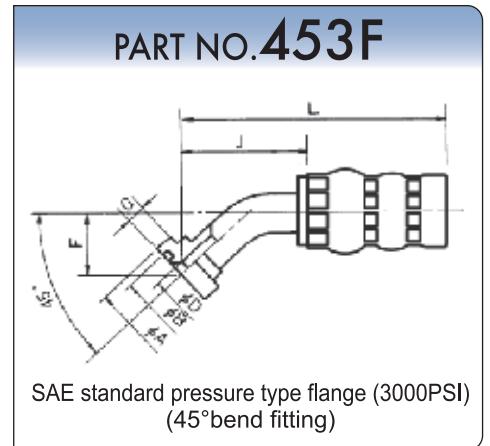
SIZE	A	B	D	G	J			L	WT
12	30.2	25.46	9.5	6.7	51.2			84	120
19	38.1	31.81	15.0	6.7	54			93	235
25	44.5	39.68	20.0	8	65			115	430



SIZE	A	B	D	F	G	J		L	WT
12	30.2	25.46	10.5	43	6.7	51.5		84	145
19	38.1	31.81	17.0	55.5	6.7	50		89	258
25	44.5	39.68	21.0	63	8	76		126	570



SIZE	A	B	D	F	G	J		L	WT
19	38.1	31.81	17.0	26	6.7	64		103	235
25	44.5	39.68	21.0	28	8	76		126	480



# SIB SERIES

# SIB280

## HOSE STRUCTURE

INNER COVER: OIL RESISTANT SYNTHETIC RUBBER  
 REINFORCEMENT: STEEL WIRE  
 OUTER COVER: OIL&OZONE RESISTANT SYNTHETIC RUBBER

## RECOMMENDED FLUIDS

MINERAL SYNTHETIC OIL

## OPERATING TEMPERATURE

-40°C~+100°C(-40°F~+212°F)

## HOSE STRUCTURE&REINFORCEMENT

2W/B

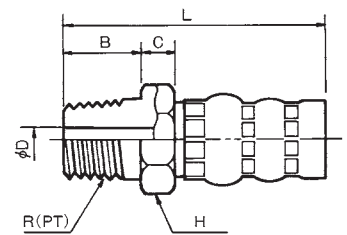


SIZE	REINFORCEMENT	INNER DIAMETER mm (inch)	OUTER DIAMETER mm	MAX WORKING PRESSURE MPa (bar)	MIN.BURST PRESSURE MPa (bar)	MIN.BEND RADIUS mm	WEIGHT g/m
6	2W/B	6.3(1/4)	13.7	28 (280)	112 (1,120)	70	285
9	2W/B	9.5(3/8)	17.7	28 (280)	112 (1,120)	90	510

SIZE	B	C	D	H				R(PT)	L	WT
6	13	6	4.2	17				1/4	46	38
9	15	6	7.0	19				3/8	49	60

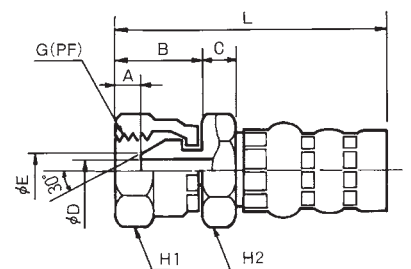
SIZE	A	B	C	D	E	H1	H2	G(PF)	L	WT
6	5.5	16	6	4.2	7.5	19	17	1/4	49	52
9	6.5	19	6	7.0	10	22	19	3/8	54	77

## PART NO. 1



male tapered pipe R thread type

## PART NO. 5

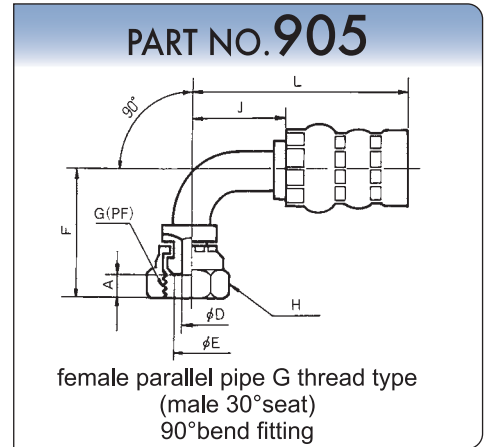


female parallel pipe G thread type  
(male 30° seat)

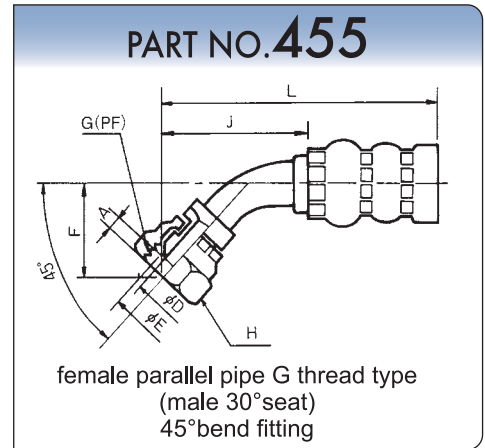
# SIB SERIES

# SIB280

SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7.0	31.5	19	26	1/4	51	52
9	5.5	6.5	9.7	40	22	34	3/8	61	90



SIZE	A	D	E	F	H	J	G(PF)	L	WT
6	4.5	4.2	7.0	16.5	19	34.5	1/4	60	46
9	5.5	6.5	9.7	20.9	22	44.5	3/8	72	83





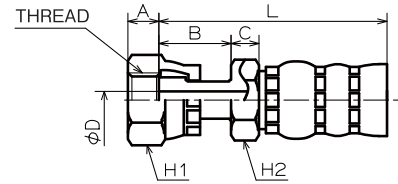


# SIB SERIES

# SIB280

SIZE	A	B	C	D	H1	H2	UNF	L	WT
6	8.5	17.5	6	4.2	19	17	9/16-18	51	57
9	9.0	18.5	6	6.5	22	19	11/16-16	54	82

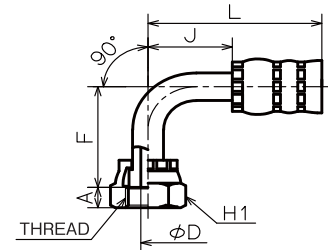
## PART NO. KO



female O-ring face seal

SIZE	A	D	F	H1	J	UNF	L	WT
6	8.5	4.2	30	19	26	9/16-18	51	56
9	9.0	6.5	37	22	34	11/16-16	61	92

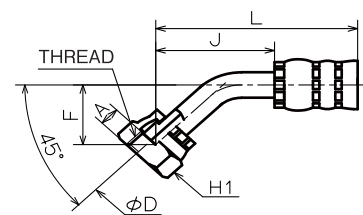
## PART NO. 90KO



female O-ring face seal  
90° bend fitting

SIZE	A	D	F	H1	J	UNF	L	WT
6	8.5	4.2	21	19	41	9/16-18	66	55
9	9.0	6.5	22	22	54.9	11/16-16	82	92

## PART NO. 45KO



female O-ring face seal  
45° bend fitting