

DAYCO

**E-Z MINER™ Hose
& Couplings**



⚠ WARNING

Dayco's product are part of an engineered system which must be assembled and used in accordance with Dayco instructions and limitations.

Dayco hose, couplings and crimping machines are designed as an effective and reliable assembly system and the use of other than Dayco's product may produce hose assemblies that will not meet rated performance. Failure to follow Dayco instructions and limitations could lead to premature hose failures resulting in property damage, serious injury or death.

Dayco's limited warranty shall apply only if the customer uses hose, fittings, hose fitting components and crimp equipment specifically engineered, designed and produced to Dayco process specifications.

DAYCO DISCLAIMS ANY RESPONSIBILITY OR LIABILITY FOR ANY CRIMPED HOSE ASSEMBLIES NOT PRODUCED FROM GENUINE DAYCO HOSE FITTINGS, HOSE AND EQUIPMENT, IN CONFORMANCE WITH DAYCO PROCESS SPECIFICATIONS FOR EACH SPECIFIC HOSE ASSEMBLY.

DO NOT USE A DAYCO CRIMPING MACHINE WITHOUT DIES!

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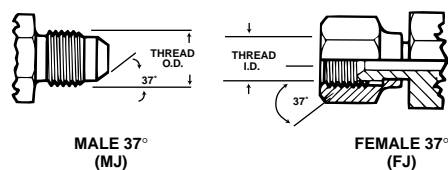
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Thread Standards

SAE J514, 37° Flare

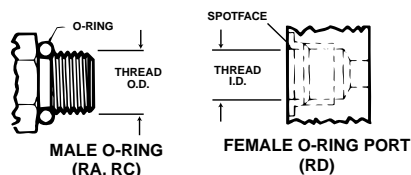


Commonly referred to as 37° JIC, this connection is widely used in hydraulic systems. When the straight threads are engaged, the 37° male seat seals on the 37° female flare seat. Most thread sizes are identical to the 45° SAE connection as noted below. Care must be taken not to confuse these two connectors which have different seating angles.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			MM	IN	MM	IN
-2	1/8	5/16-24*	7.9	.31	6.9	.27
-3	3/16	3/8-24*	9.6	.38	8.6	.34
-4	1/4	7/16-20*	11.2	.44	9.9	.39
-5	5/16	1/2-20*	12.7	.50	11.4	.45
-6	3/8	9/16-18	14.2	.56	12.9	.51
-8	1/2	3/4-16*	19.0	.75	17.0	.67
-10	5/8	7/8-14*	22.3	.88	20.3	.80
-12	3/4	1-1/6-12	26.9	1.06	24.9	.98
-14	7/8	1-3/16-12	30.0	1.18	27.7	1.09
-16	1	1-5/16-12	33.3	1.31	31.0	1.22
-20	1-1/4	1-5/8-12	41.4	1.63	39.1	1.54
-24	1-1/2	1-7/8-12	47.7	1.88	45.5	1.79
-32	2	2-1/2-12	63.5	2.50	61.2	2.41

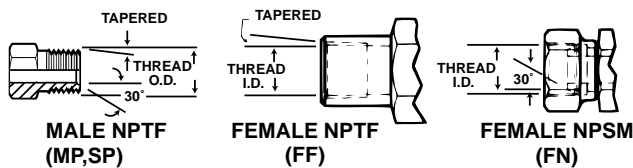
*Same thread as SAE 45° flare

SAE J514 Straight Thread O-Ring Boss



This straight thread connection uses the same threads as the JIC 37° flare shown above. However, the 37° flare has been removed and an o-ring added. When mated with a female o-ring boss port the o-ring is trapped in a special tapered counterbore to effect the seal.

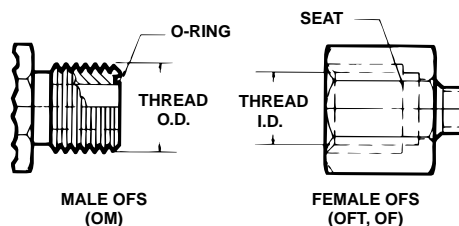
Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			MM	IN	MM	IN
-2	1/8	5/16-24	7.9	.31	6.9	.27
-3	3/16	3/8-24	9.6	.38	8.6	.34
-4	1/4	7/16-20	11.2	.44	9.9	.39
-5	5/16	1/2-20	12.7	.50	11.4	.45
-6	3/8	9/16-18	14.2	.56	12.9	.51
-8	1/2	3/4-16	19.0	.75	17.0	.67
-10	5/8	7/8-14	22.3	.88	20.3	.80
-12	3/4	1-1/6-12	26.9	1.06	24.9	.98
-14	7/8	1-3/16-12	30.0	1.18	27.7	1.09
-16	1	1-5/16-12	33.3	1.31	31.0	1.22
-20	1-1/4	1-5/8-12	41.4	1.63	39.1	1.54
-24	1-1/2	1-7/8-12	47.7	1.88	45.5	1.79
-32	2	2-1/2-12	63.5	2.50	61.2	2.41



American Dryseal Pipe Threads (NPTF and NPSM)

This commonly used connection incorporates two methods of sealing. The male NPTF (Dryseal) tapered thread will mate with the NPTF tapered female, which is usually a port, and seal when the special threads are crushed together. Additional sealing aids such as pipe dope and teflon tape are often used with these threads. If a male end has a 30° seat it will mate with a 30° cone seat in the NPSM straight thread swivel female, usually found on adapters, and is mechanically held together by the threads. NPTF & NPSM threads are not interchangeable with British pipe threads.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			MM	IN	MM	IN
-2	1/8	1/8-27	10.3	.41	9.4	.37
-4	1/4	1/4-18	13.7	.54	12.4	.49
-6	3/8	3/8-18	17.3	.68	15.7	.62
-8	1/2	1/2-14	21.3	.84	19.3	.76
-12	3/4	3/4-14	26.9	1.06	24.9	.98
-16	1	1-11-1/2	33.3	1.31	31.5	1.24
-20	1-1/4	1-1/4-11-1/2	42.2	1.66	40.1	1.58
-24	1-1/2	1-1/2-11-1/2	48.3	1.90	46.2	1.82
-32	2	2-11-1/2	60.4	2.38	57.9	2.28



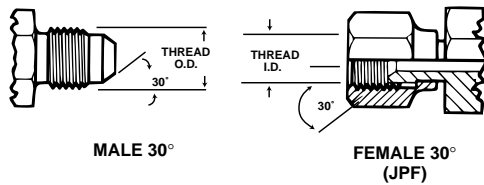
Titan™ SAE J1453 O-Ring Face Seal

This connection is designed for leak-free use to 6000 PSI. The o-ring in the face of the straight thread male end seals against the flat face female seat and is mechanically held in place by a swivel female nut.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			MM	IN	MM	IN
-4	1/4	9/16-18	14.2	.56	12.9	.51
-6	3/8	11/16-16	17.3	.68	16.0	.63
-8	1/2	13/16-16	20.6	.81	19.0	.75
-10	5/8	1-14	25.4	1.00	23.6	.93
-12	3/4	1-3/16-12	30.0	1.18	27.8	1.10
-16	1	1-7/16-12	36.6	1.44	34.5	1.36
-20	1-1/4	1-11/16-12	42.7	1.68	40.6	1.60
-24	1-1/2	2-12	50.8	2.00	48.8	1.92

Thread Standards

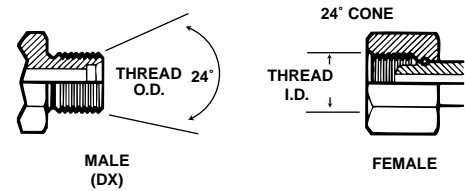
JIS 30° Flare with Parallel Pipe Threads (PF)



This Japanese connector is similar to the American 37° JIC flare except for the 30° seat angle. The straight (parallel) pipe threads are the same as BSPP.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			MM	IN	MM	IN
-2	1/8	1/8-28	9.4	.37	8.1	.32
-4	1/4	1/4-19	13.7	.53	12.4	.49
-6	3/8	3/8-19	17.2	.68	16.0	.62
-8	1/2	1/2-14	21.5	.84	19.8	.77
-10	5/8	5/8-14	23.1	.91	20.6	.81
-12	3/4	3/4-14	26.9	1.06	25.4	1.00
-16	1	1-11	34.0	1.34	31.8	1.25
-20	1-1/4	1-1/4-11	42.6	1.68	40.4	1.59
-24	1-1/2	1-1/2-11	48.5	1.90	46.2	1.81
-32	2	2	60.4	2.37	58.2	2.29

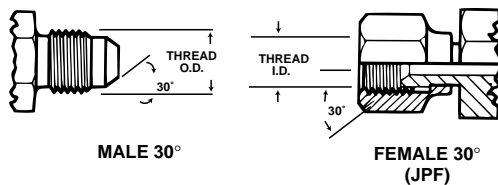
DIN 7611-60° Series



This German standard consists of a single male and female end with straight metric threads. The female has a 60° or a universal 24°/60° cone which seats on the 60° seat in the male end.

Thread	Male Thread O.D.		Female Thread I.D.		Tube O.D.	
	MM	IN	MM	IN	MM	IN
M12 x 1.5	12	.47	10.5	.41	6	.24
M14 X 1.5	14	.55	12.5	.49	8	.32
M16 X 1.5	16	.63	14.5	.57	10	.39
M18 X 1.5	18	.71	16.5	.65	12	.47
M22 X 1.5	22	.87	20.5	.81	15	.59
M26 X 1.5	26	1.02	24.5	.96	18	.71
M30 X 1.5	30	1.18	28.5	1.12	22	.87
M38 X 1.5	38	1.50	36.5	1.44	28	1.10
M45 X 1.5	45	1.77	43.5	1.71	35	1.38
M52 X 1.5	52	2.04	50.5	1.99	42	1.65

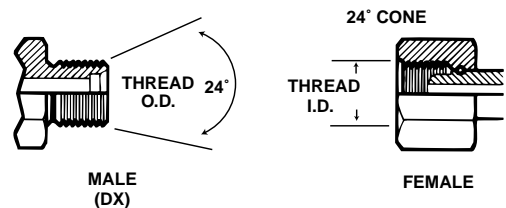
Japanese Komatsu 30° Flare with Metric Threads



Used extensively on Komatsu equipment, this 30° flare connector has parallel metric threads and is sometimes confused with JIS 30° flare which has parallel pipe threads.

Dash Size	Metric Size Equiv.	Metric Thread	Male Thread O.D.		Female Thread I.D.	
			MM	IN	MM	IN
-6	9	M18 X 1.5	18	.71	16.5	.65
-8	12	M22 X 1.5	22	.87	20.5	.82
-10	16	M24 X 1.5	24	.94	22.5	.88
-12	19	M30 X 1.5	30	1.18	28.5	1.12
-16	25	M33 X 1.5	33	1.30	31.5	1.24
-20	32	M36 X 1.5	36	1.42	34.5	1.36
-24	38	M42 X 1.5	42	1.65	40.5	1.59

DIN 7611-24° Series



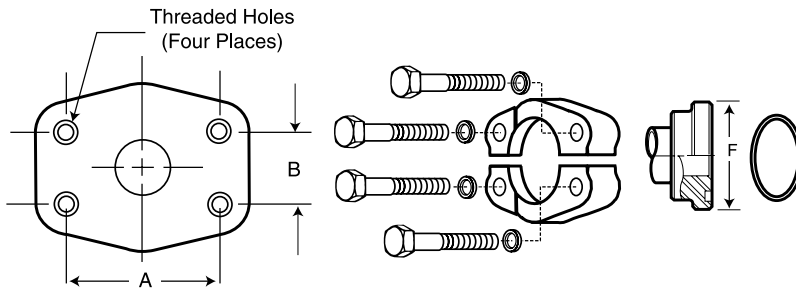
This connector system consists of one male and three styles of female, all of which have straight metric threads.

Sealing takes place between the 24° seat in the male end and the respective sealing areas in the female ends.

DIN 2353 includes both a light and heavy duty series which can be identified by measuring the tube O.D.

Thread	Male Thread O.D.		Female Thread I.D.		Tube O.D. "T" DIM		
	MM	IN	MM	IN	Light Duty MM	Light Duty IN	Heavy Duty IN
M12 X 1.5	12	.47	10.5	.41	6	.24	-
M14 X 1.5	14	.55	12.5	.49	8	.32	6 .24
M16 X 1.5	16	.63	14.5	.57	10	.39	8 .32
M18 X 1.5	18	.71	16.5	.65	12	.47	10 .39
M20 X 1.5	20	.78	18.5	.73	-	-	12 .47
M22 X 1.5	22	.87	20.5	.81	15	.59	14 .55
M24 X 1.5	24	.94	22.5	.89	-	-	16 .63
M26 X 1.5	26	1.02	24.5	.96	18	.71	-
M30 X 2	30	1.18	28	1.11	22	.87	20 .78
M36 X 2	36	1.41	34	1.34	28	1.10	25 .98
M42 X 2	42	1.65	40	1.57	-	-	30 1.18
M45 X 2	45	1.77	43	1.70	35	1.32	-
M52 X 2	52	2.04	50	1.97	42	1.66	38 1.50

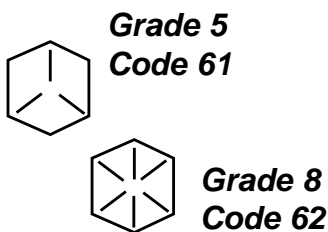
Flange Kit & Accessories



Style PA SAE J518 Standard Pressure Code 61 Flange Kits			FLANGE CLAMP (Two Required)	HEX HEAD BOLT (Four Required)		LOCK WASHER (Four Required)		O-RING FOR FLANGE HEAD (One Required)			
FLANGE HALF KITS	NOMINAL FLANGE SIZE	FLANGE O.D.	PART NUMBER	PART NUMBER	SIZE	PART NUMBER	SIZE	PART NUMBER	I.D.	WALL	O.D.
08PA	1/2	1-3/16	SFH-8	HHB5-20	5/16-18 X 1-1/4	LW-5	5/16	08PA-77	.734	.139	1.012
12PA	3/4	1-1/2	SFH-12	HHB6-20	3/8-16 X 1-1/4	LW-6	3/8	12PA-77	.984	.139	1.262
16PA	1	1-3/4	SFH-16	HHB6-20	3/8-16 X 1-1/4	LW-6	3/8	16PA-77	1.296	.139	1.574
20PA	1-1/4	2	SFH-20	HHB7-24	7/16-14 X 1-1/2	LW-7	7/16	20PA-77	1.484	.139	1.762
24PA	1-1/2	2-3/8	SFH-24	HHB7-24	1/2-13 X 1-1/2	LW-8	1/2	24PA-77	1.859	.139	2.137
32PA	2	2-13/16	SFH-32	HHB8-24	1/2-13 X 1-1/2	LW-8	1/2	32PA-77	2.234	.139	2.512

Style PH & PHC SAE J518 Code 62 Flange Kits			FLANGE CLAMP (Two Required)	HEX HEAD BOLT (Four Required)		LOCK WASHER (Four Required)		O-RING FOR FLANGE HEAD (One Required)			
FLANGE HALF KITS	NOMINAL FLANGE SIZE	FLANGE O.D.	PART NUMBER	PART NUMBER	SIZE	PART NUMBER	SIZE	PART NUMBER	I.D.	WALL	O.D.
08PH	1/2	1-1/4	SFH-8H	HHB5-20	5/16-18 X 1-1/4	LW-5	5/16	08PA-77	.734	.139	1.012
12PH	3/4	1-5/8	SFH-12H	HHB6-24	3/8-16 X 1-1/2	LW-6	3/8	12PA-77	.984	.139	1.262
16PH	1	1-7/8	SFH-16H	HHB7-28	3/8-16 X 1-3/4	LW-7	7/16	16PA-77	1.296	.139	1.574
20PH	1-1/4	2-1/8	SFH-20H	HHB8-28	7/16-14 X 1-3/4	LW-8	1/2	20PA-77	1.484	.139	1.762
24PH	1-1/2	2-1/2	SFH-24H	HHB10-36	5/8-11 X 2-1/4	LW-10	5/8	24PA-77	1.859	.139	2.137
32PH	2	3-1/8	SFH-32H	HHB12-44	3/4-10 X 2-3/4	LW-12	3/4	32PA-77	2.234	.139	2.512

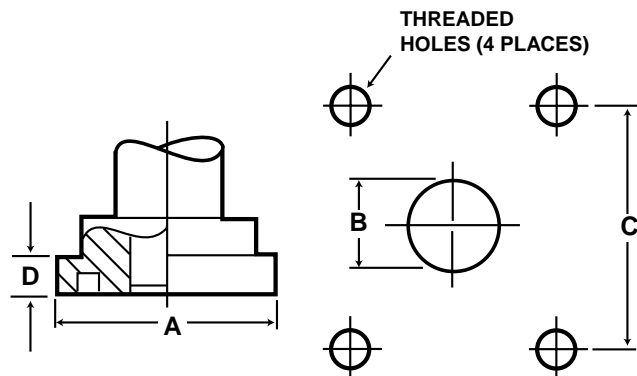
Bolt Identification



O-Ring sizes for Split Flanges Code 61 and Code 62

Flange Dash Size	O-Ring Size	O-Ring Part Number
8	210	08PA-77
12	214	12PA-77
16	219	16PA-77
20	222	20PA-77
24	225	24PA-77
32	228	32PA-77
40	—	—

4 Bolt Flange Dimensions



SAE Code 61—Standard Series (Style PA)

Dash Size	Inch Size	Bolt Size	Flange O.D. "A" ±.010		Bolt Spacing "C" ±.010		Flange Port "B" ±.010		Code 61 Max. Working Pressure PSI	Flange Thickness "D"	
			MM	IN	MM	IN	MM	IN		MM	IN
-8	1/2	5/16-18 X 1-1/4	30.2	1.19	38.1	1.50	17.5	.69	5,000	6.73	.265
-10	5/8	METRIC	34.0	1.34	—	—	—	—	5,000	6.73	.265
-12	3/4	3/8-16 X 1-1/4	38.1	1.50	47.6	1.88	22.4	.88	5,000	6.73	.265
-16	1	3/8-16 X 1-1/4	44.4	1.75	52.4	2.06	26.2	1.063	5,000	8.00	.315
-20	1-1/4	7/16-25 X 1-1/2	50.8	2.00	58.7	2.31	30.2	1.19	4,000	8.00	.315
-24	1-1/2	1/2-13 X 1-1/2	60.3	2.38	69.8	2.75	35.8	1.41	3,000	8.00	.315
-32	2	1/2-13 X 1-3/4	71.4	2.81	77.8	3.06	42.9	1.69	3,000	9.52	.375

SAE Code 62—High Pressure Series (Style PH)

Dash Size	Inch Size	Bolt Size	Flange O.D. "A" ±.010		Bolt Spacing "C" ±.010		Flange Port "B" ±.010		Code 62 Max. Working Pressure PSI	Flange Thickness "D"	
			MM	IN	MM	IN	MM	IN		MM	IN
-8	1/2	5/16-18 X 1-1/4	31.7	1.25	40.5	1.59	18.3	.72	6,000	7.74	.303
-12	3/4	3/8-16 X 1-1/2	41.3	1.63	50.8	2.00	23.9	.94	6,000	8.76	.345
-16	1	7/16-14 X 1-3/4	47.6	1.88	57.1	2.25	27.7	1.09	6,000	9.52	.375
-20	1-1/4	1/2-13 X 1-3/4	54.0	2.13	66.7	2.63	31.8	1.25	6,000	10.28	.405
-24	1-1/2	5/8-11 X 2-1/4	63.5	2.50	79.4	3.13	36.6	1.44	6,000	12.57	.495
-32	2	3/4-10 X 2-3/4	79.4	3.13	96.8	3.81	44.5	1.75	6,000	12.57	.495
-40											

SAE Code 62—High Pressure Series (Style PHC) Cat Flanges

Dash Size	Inch Size	Bolt Size	Flange O.D. "A" ±.010		Bolt Spacing "C" ±.010		Flange Port "B" ±.010		Code 62 Max. Working Pressure PSI	Flange Thickness "D"	
			MM	IN	MM	IN	MM	IN		MM	IN
-8	1/2	5/16-18 X 1-1/4	31.7	1.25	40.5	1.59	18.3	.72	6,000	—	—
-12	3/4	3/8-16 X 1-1/2	41.3	1.63	50.8	2.00	23.9	.94	6,000	14.2	.560
-16	1	7/16-14 X 1-3/4	47.6	1.88	57.1	2.25	27.7	1.09	6,000	14.2	.560
-20	1-1/4	1/2-13 X 1-3/4	54.0	2.13	66.7	2.63	31.8	1.25	6,000	14.2	.560
-24	1-1/2	5/8-11 X 2-1/4	63.5	2.50	79.4	3.13	36.6	1.44	6,000	14.2	.560
-32	2	3/4-10 X 2-3/4	79.4	3.13	96.8	3.81	44.5	1.75	6,000	14.2	.560

E-Z Miner™ Hose

Style BXX - E-Z Flex® SAE 100R2AT



- Tube:** Seamless Synthetic Rubber, oil resistant
Reinforcement: Two high tensile wire braids
Cover: Oil, weather, and flame resistant
Temperature Range: -40°C to +100°C
 -40°F to +212°F
Application: Used on high pressure mobile mining equipment where a tough hose with a fatigue life superior to SAE 100R2 Hose is MSHA approved.

Part Number	Nom. Size		O.D.		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		Cplg.
	DN	Inch	MM	Inch	Bar	PSI	Bar	PSI	MM	Inch	Kg/m	Lb/ft	
BXX04	6	1/4	15.0	0.59	345	5000	1380	20000	50	2.00	0.40	0.27	BW
BXX06	10	3/8	18.8	0.74	276	4000	1104	16000	63	2.50	0.57	0.38	BW
BXX08	12	1/2	22.1	0.87	241	3500	966	14000	88	3.50	0.69	0.46	BW
BXX10	16	5/8	25.4	1.00	189	2750	759	11000	100	4.00	0.77	0.52	BW
BXX12	20	3/4	29.2	1.15	155	2250	621	9000	118	4.75	0.97	0.65	BW
BXX16	25	1	37.8	1.49	138	2000	552	8000	150	6.00	1.46	0.98	BW
BXX20	32	1-1/4	47.6	1.87	112	1625	448	6500	420	16.50	2.11	1.42	BW
BXX24	40	1-1/2	54.1	2.13	86	1250	345	5000	500	20.00	2.58	1.60	BW
BXX32	50	2	63.3	2.49	78	1125	310	4500	630	25.00	3.29	2.21	BW

Style NH SAE 100R13



- Tube:** Seamless Synthetic Rubber, oil resistant
Reinforcement: Multiple layers of high tensile wire
Cover: Oil, weather, and flame resistant
Temperature Range: -40°C to +120°C
 -40°F to +212°F
Application: Used on high pressure mobile mining equipment. Hose is MSHA approved.

Part Number	Nom. Size		O.D.		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		Cplg.
	DN	Inch	MM	Inch	Bar	PSI	Bar	PSI	MM	Inch	Kg/m	Lb/ft	
NH12	20	3/4	32.0	1.26	345	5000	1380	20000	241	9.5	1.56	1.05	BW
NH16	25	1	38.2	1.50	345	5000	1380	20000	304	12.0	2.06	1.39	BW
NH20**	32	1-1/4	45.5	1.79	345	5000	1380	20000	419	16.5	2.51	1.70	NB
NH24**	40	1-1/2	57.3	2.26	345	5000	1380	20000	508	20.0	5.10	3.42	NB
NH32**	50	2	71.1	2.80	345	5000	1380	20000	635	25.0	7.10	4.76	NB

**6 SPIRAL CONSTRUCTION.

E-Z Miner™ Hose

Style CE - E-Z Flex® Spiral SAE 100R12



Tube: Seamless Synthetic Rubber, oil resistant
Reinforcement: Four spiraled layers of high tensile wire
Cover: Oil, weather, and flame resistant
Temperature Range: -40°C to +120°C
 -40°F to +250°F
Application: Used on high pressure mobile mining equipment. Hose is MSHA approved

Part Number	Nom. Size		O.D.		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		Cplg.
	DN	Inch	MM	Inch	Bar	PSI	Bar	PSI	MM	Inch	Kg/m	Lb/ft	
CET06	10	3/8	20.3	0.80	276	4000	1104	16000	127	5.0	0.67	0.45	BW
CET08	12	1/2	23.9	0.94	276	4000	1104	16000	178	7.0	0.74	0.50	BW
CE12	20	3/4	30.7	1.21	276	4000	1104	16000	241	9.5	1.33	0.89	BW
CE16	25	1	38.1	1.50	276	4000	1104	16000	304	12.0	1.94	1.30	BW
CE20	32	1-1/4	46.9	1.85	207	3000	828	12000	419	16.5	2.61	1.75	BW
CE24	40	1-1/2	53.6	2.11	172	2500	690	10000	508	20.0	2.98	2.00	BW
CE32	50	2	66.8	2.63	172	2500	690	10000	635	25.0	4.20	2.82	BW

Style U4 SAE 100R4



Tube: Seamless Synthetic Rubber, oil resistant
Reinforcement: Textile reinforcement with helix wire
Cover: Oil, weather, resistant synthetic rubber-MSHA approved
Temperature Range: -40°F to +250°F
Application: Used for suction or return line on hydraulic systems. Excellent flexibility. Vacuum 25 inches Hg. SAE/USCG Marine Listed

Part Number	Nom. Size		O.D.		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		Cplg.
	DN	Inch	MM	Inch	Bar	PSI	Bar	PSI	MM	Inch	Kg/m	Lb/ft	
U412	20	3/4	31.3	1.23	20.7	300	82.8	1200	76.4	3.0	0.74	0.50	HY
U416	25	1	37.7	1.48	17.3	250	69.0	1000	101.8	4.0	0.95	0.64	HY
U420	32	1-1/4	45.1	1.77	13.8	200	55.2	800	127.3	5.0	1.29	0.87	HY
U424	40	1-1/2	52.2	2.05	10.4	150	41.4	600	178.2	7.0	1.81	1.22	HR
U432	50	2	63.3	2.50	6.9	100	27.6	400	254.5	10.0	2.07	1.39	HR
U440	65	2-1/2	79.2	3.11	4.3	62	17.3	250	305.5	12.0	3.06	2.06	HR*
U448	75	3	91.9	3.61	3.9	56	15.5	225	356.4	14.0	3.73	2.51	HR*

* Consult Dayco Customer Service

E-Z Miner™ Hose

Style SN2K – Abrasion King®
DIN 20022-2SN



Tube: Neoprene
Reinforcement: Two braids of high tensile wire
Cover: Abrasion, oil, and water, resistant Neoprene
 MSHA approved
Temperature Range: -40°C to +120°C
 -40°F to +212°F
Application: Used for high pressure hydraulic lines on mining equipment

Part Number	Nom. Size		O.D.		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		Cplg.
	DN	Inch	MM	Inch	Bar	PSI	Bar	PSI	MM	Inch	Kg/m	Lb/ft	
SN2K04	06	1/4	15.0	.59	400.2	5800	1600.8	23200	101.8	4.0	0.40	.27	BW
SN2K06	10	3/8	18.8	.74	331.2	4800	1324.8	19200	127.3	5.0	0.56	.38	BW
SN2K08	12	1/2	22.1	.87	276.0	4000	1104.0	16000	178.2	7.0	0.68	.46	BW
SN2K10	16	5/8	25.4	1.00	250.1	3625	1000.5	14500	203.7	8.0	0.81	.55	BW
SN2K12	20	3/4	29.3	1.15	220.8	3200	883.2	12800	244.5	9.6	0.96	.65	BW
SN2K16	25	1	37.9	1.49	165.6	2400	662.4	9600	305.5	12.0	1.45	.98	BW
SN2K20	32	1 1/4	47.8	1.88	124.2	1800	496.8	7200	420.2	16.5	2.10	1.42	BW
SN2K24	40	1 1/2	54.2	2.13	89.7	1300	358.8	5200	522.1	20.5	2.49	1.68	BW
SN2K32	50	2	66.9	2.63	80.0	1160	320.2	4640	636.7	25	3.32	2.24	BW

E-Z Miner™ Hose

Style N310
DIN 20023



Tube: Neoprene
Reinforcement: Four spiraled layers of high tensile steel wire
Cover: Oil, weather, resistant synthetic rubber—MSHA approved
Temperature Range: -40°F to +212°F
Application: A superior spiral hose for use in severe high pressure hydraulic applications

Part Number	Nom. Size		O.D.		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		Cplg.
	DN	Inch	MM	Inch	Bar	PSI	Bar	PSI	MM	Inch	Kg/m	Lb/ft	
N310	16	5/8	28.5	1.12	414.0	6000	1656.0	24000	242.0	9.5	1.14	.77	BW

Style BH - Barrier Refrigerant Hose Exceeds SAE J51 – Meets SAE J2064

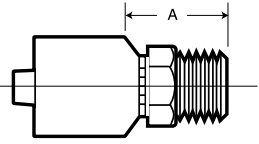


Tube: Neoprene/Nylon barrier/Nitrile barrier construction
Reinforcement: Textile reinforcement
Cover: Black, abrasion, ozone and heat resistant EPDM
Temperature Range: -22°F to +257°F
Application: Specifically designed for use in R12 and R134a refrigerant systems only.

Part Number	Nom. Size		O.D.		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		Cplg.
	DN	Inch	MM	Inch	Bar	PSI	Bar	PSI	MM	Inch	Kg/m	Lb/ft	
BH06	8	5/16	19.1	.75	24.2	350	138.0	2000	101.8	4.0	0.28	.19	BH
BH08	10	13/32	23.2	.91	24.2	350	138.0	2000	119.7	4.7	0.40	.27	BH
BH10	12	1/2	25.4	1.00	24.2	350	138.0	2000	140.0	5.5	0.47	.32	BH
BH12	16	5/8	28.8	1.13	24.2	350	120.8	1750	165.5	6.5	0.55	.37	BH

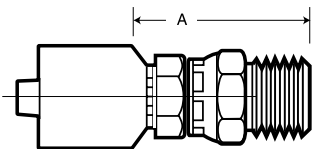
E-Z Miner™ Couplings BW Series

Style MP Male NPTF



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-02MP	6	1/4	1/8-27			20.8	.82				
BW04-04MP	6	1/4	1/4-18			26.2	1.03				
BW04-06MP	6	1/4	3/8-18			26.9	1.06				
BW06-06MP	10	3/8	3/8-18			25.2	.99				
BW06-08MP	10	3/8	1/2-14			31.5	1.24				
BW08-06MP	12	1/2	3/8-18			26.7	1.05				
BW08-08MP	12	1/2	1/2-14			33.3	1.31				
BW08-12MP	12	1/2	3/4-14			34.8	1.37				
BW10-08MP	16	5/8	1/2-14			36.4	1.43				
BW10-12MP	16	5/8	3/4-14			36.6	1.44				
BW12-12MP	20	3/4	3/4-14			35.8	1.41				
BW12-08MP	20	3/4	1/2-14			35.0	1.38				
BW12-16MP	20	3/4	1 11-1/2			40.4	1.59				
BW16-16MP	25	1	1 11-1/2			40.4	1.59				
BW16-20MP	25	1	1-1/4 11-1/2			42.7	1.68				
BW20-20MP	32	1-1/4	1-1/4 11-1/2			43.2	1.70				
BW20-24MP	32	1-1/4	1-1/2 11-1/2			45.5	1.79				
BW24-24MP	40	1-1/2	1-1/2 11-1/2			50.3	1.98				
BW32-32MP	50	2	2-11-1/2			54.1	2.13				

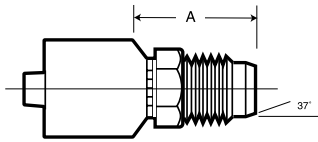
Style MS Male Swivel NPTF With 30° Cone Seat



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04MS	6	1/4	1/4-18			34.5	1.36				
BW06-06MS	10	3/8	3/8-18			35.8	1.41				
BW08-08MS	12	1/2	1/2-14			43.2	1.70				
BW12-12MS	20	3/4	3/4-14			48.8	1.92				
BW16-16MS	25	1	1 11-1/2								

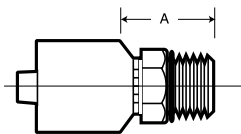
E-Z Miner™ Couplings BW Series

Style MJ Male 37° Flare



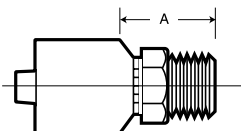
Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04MJ	6	1/4	7/16-20			25.7	1.01				
BW04-05MJ	6	1/4	1/2-20			25.7	1.01				
BW04-06MJ	6	1/4	9/16-18			25.9	1.02				
BW06-06MJ	10	3/8	9/16-18			24.1	.95				
BW08-08MJ	12	1/2	3/4-16			29.2	1.15				
BW08-10MJ	12	1/2	7/8-14			31.5	1.24				
BW10-10MJ	16	5/8	7/8-14			33.3	1.31				
BW12-12MJ	20	3/4	1-1/16 12			36.6	1.44				
BW12-14MJ	20	3/4	1-3/16 12			38.1	1.50				
BW12-16MJ	20	3/4	1-5/16 12			39.4	1.55				
BW16-16MJ	25	1	1-5/16 12			39.4	1.55				
BW16-20MJ	25	1	1-5/8 12			42.5	1.67				
BW20-20MJ	32	1-1/4	1-5/8 12			43.2	1.70				
BW20-24MJ	32	1-1/4	1-7/8 12			47.3	1.86				
BW24-24MJ	40	1-1/2	1-7/8 12			53.6	2.11				
BW32-32MJ	50	2	2-1/2 12			60.2	2.37				

Style RA Male O-Ring Boss



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04RA	6	1/4	7/16-20			19.8	.78				
BW06-06RA	10	3/8	9/16-18			22.1	.87				
BW08-08RA	12	1/2	3/4-16			25.7	1.01				
BW12-12RA	20	3/4	1-1/16 12			31.3	1.23				
BW16-16RA	25	1	1-5/16 12			31.5	1.24				
BW16-20RA	25	1	1-5/8 12			31.3	1.23				
BW20-20RA	32	1-1/4	1-5/8 12			31.8	1.25				

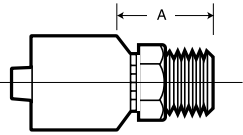
Style OM Male O-Ring Face Seal



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04OM	6	1/4	9/16-18			23.4	.92				
BW06-06OM	10	3/8	11/16-16			23.4	.92				
BW08-08OM	12	1/2	13/16-12			26.9	1.06				
BW12-12OM	20	3/4	1-3/16 12			33.3	1.31				
BW16-16OM	25	1	1-7/16 12			34.1	1.34				
BW20-20OM	32	1-1/4	1-11/16 12			35.8	1.41				

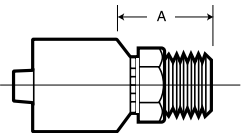
E-Z Miner™ Couplings BW Series

Style BP BSPP Rigid Male



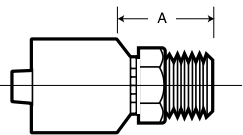
Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04BP	6	1/4	1/4-19			24.9	.98				
BW04-06BP	6	1/4	3/8-19			28.2	1.11				
BW04-08BP	6	1/4	1/2-14			31.0	1.22				
BW06-06BP	10	3/8	3/8-19			26.4	1.04				
BW06-08BP	10	3/8	1/2-14			29.5	1.16				
BW08-06BP	12	1/2	3/8-19			28.2	1.11				
BW08-08BP	12	1/2	1/2-14			31.5	1.24				
BW10-12BP	16	5/8	3/4-14			36.4	1.43				
BW12-12BP	20	3/4	3/4-14			35.6	1.40				
BW16-16BP	25	1	1-11			38.6	1.52				

Style BT BSPT Rigid Male



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-02BT	6	1/4	1/8-28			21.4	.84				
BW04-04BT	6	1/4	1/4-19			26.2	1.03				
BW04-06BT	6	1/4	3/8-19			26.9	1.06				
BW06-06BT	10	3/8	3/8-19			25.2	.99				
BW06-08BT	10	3/8	1/2-14			31.3	1.23				
BW08-08BT	12	1/2	1/2-14			33.0	1.30				
BW10-12BT	16	5/8	3/4-14			36.4	1.43				
BW12-12BT	20	3/4	3/4-14			35.6	1.40				
BW16-16BT	25	1	1-11			40.2	1.58				

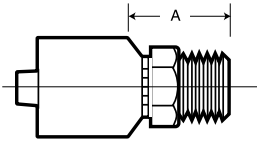
Style MZ Male Din-Light Series 24° Seat



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-06MZ12A	6	1/4	M12 X 1.5			21.1	.83				
BW04-08MZ14A	6	1/4	M14 X 1.5			21.1	.83				
BW04-10MZ16A	6	1/4	M16 X 1.5			22.1	.87				
BW06-10MZ16A	10	3/8	M16 X 1.5			22.9	.90				
BW06-12MZ18A	10	3/8	M18 X 1.5			22.9	.90				
BW06-15MZ22A	10	3/8	M22 X 1.5			24.4	.96				
BW08-15MZ22A	12	1/2	M22 X 1.5			25.9	1.02				
BW10-18MZ26A	16	5/8	M26 X 1.5			29.2	1.15				
BW12-22MZ30B	20	3/4	M30 X 2			30.2	1.19				
BW16-28MZ36B	25	1	M36 X 2			31.8	1.25				

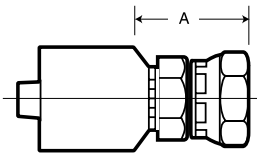
E-Z Miner™ Couplings BW Series

Style MZ Male Din-Heavy Series 24° Seat



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-08MZ16A	6	1/4	M16 X 1.5			23.1	.91				
BW04-10MZ18A	6	1/4	M18 X 1.5			23.1	.91				
BW06-08MZ16A	10	3/8	M16 X 1.5			21.4	.84				
BW06-10MZ18A	10	3/8	M18 X 1.5			21.4	.84				
BW06-12MZ20A	10	3/8	M20 X 1.5			23.9	.94				
BW06-14MZ22A	10	3/8	M22 X 1.5			25.9	1.02				
BW08-16MZ24A	12	1/2	M24 X 1.5			28.0	1.10				
BW10-20MZ30B	16	5/8	M30 X 2			33.0	1.30				
BW12-25MZ36B	20	3/4	M36 X 2			37.4	1.47				
BW16-30MZ42B	25	1	M42 X 2			39.4	1.55				
BW20-38MZ52B	32	1-1/4	M52 X 2			45.0	1.77				

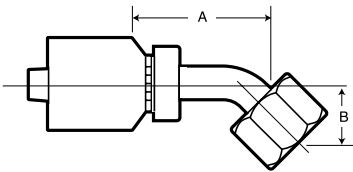
Style FJ Swivel Female SAE 37° Flare



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04FJ	6	1/4	7/16-20			26.4	1.04				
BW04-05FJ	6	1/4	1/2-20			27.7	1.09				
BW04-06FJ	6	1/4	9/16-18			31.0	1.22				
BW06-06FJ	10	3/8	9/16-18			28.5	1.12				
BW06-08FJ	10	3/8	3/4-16			29.5	1.16				
BW08-08FJ	12	1/2	3/4-16			31.0	1.22				
BW08-10FJ	12	1/2	7/8-14			34.6	1.36				
BW08-12FJ	12	1/2	1-1/16 12			39.4	1.55				
BW10-10FJ	16	5/8	7/8-14			40.4	1.59				
BW10-12FJ	16	5/8	1-1/16 12			41.9	1.62				
BW12-10FJ	20	3/4	7/8-14			37.4	1.47				
BW12-12FJ	20	3/4	1-1/16 12			40.2	1.58				
BW12-14FJ	20	3/4	1-3/16 12			39.7	1.56				
BW12-16FJ	20	3/4	1-5/16 12			41.9	1.65				
BW16-12FJ	25	1	1-1/16 12			40.4	1.59				
BW16-16FJ	25	1	1-5/16 12			43.5	1.71				
BW16-20FJ	25	1	1-5/8 12			31.8	1.25				
BW20-16FJ	32	1-1/4	1-5/16 12			45.8	1.80				
BW20-20FJ	32	1-1/4	1-5/8 12			48.0	1.89				
BW20-24FJ	32	1-1/4	1-7/8 12			53.4	2.10				
BW24-24FJ	40	1-1/2	1-7/8 12			55.2	2.17				
BW32-32FJ	50	2	2-1/2 12			68.6	2.70				

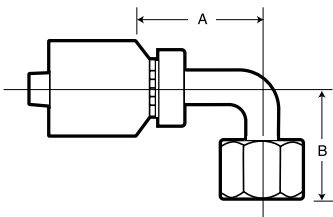
E-Z Miner™ Couplings BW Series

Style FJ45T 45° Bent Tube Swivel Female SAE 37° Flare



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04FJ45T	6	1/4	7/16-20	8.4	.33	39.7	1.56				
BW04-05FJ45T	6	1/4	1/2-20	9.2	.36	41.4	1.63				
BW04-06FJ45T	6	1/4	9/16-18	9.9	.39	43.5	1.71				
BW06-06FJ45T	10	3/8	9/16-18	9.9	.39	43.5	1.71				
BW08-08FJ45T	12	1/2	3/4-16	14.0	.55	49.8	1.96				
BW08-10FJ45T	12	1/2	7/8-14	16.0	.63	54.4	2.14				
BW08-12FJ45T	12	1/2	1-1/16 12	27.5	1.08	63.3	2.49				
BW10-10FJ45T	16	5/8	7/8-14	16.0	0.63	56.4	2.22				
BW10-12FJ45T	16	5/8	1-1/16 12	29.2	1.15	79.8	3.14				
BW12-10FJ45T	25	1	1-5/8 12	16.0	.63	54.4	2.14				
BW12-12FJ45T	20	3/4	1-1/16 12	29.2	1.15	77.8	3.06				
BW12-16FJ45T	20	3/4	1-5/16 12	31.3	1.23	79.6	3.13				
BW16-16FJ45T	25	1	1-5/16 12	32.3	1.27	79.3	3.12				
BW16-20FJ45T	25	1	1-5/8 12	33.0	1.30	80.1	3.15				
BW20-20FJ45T	32	1-1/4	1-5/8 12	37.4	1.47	101.4	3.99				
BW20-24FJ45T	32	1-1/4	1-7/8 12	51.1	2.01	114.9	4.52				
BW24-24FJ45T	40	1-1/2	1-7/8 12	46.8	1.84	124.3	4.89				
BW32-32FJ45T	50	2	2-1/2 12	68.9	2.71	150.2	5.91				

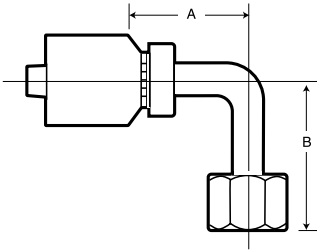
Style FJ90T 90° Bent Tube Swivel Female SAE 37° Flare



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04FJ90T	6	1/4	7/16-20	17.3	.68	37.9	1.49				
BW04-05FJ90T	6	1/4	1/2-20	19.6	.77	37.9	1.49				
BW04-06FJ90T	6	1/4	9/16-16	21.6	.85	40.9	1.61				
BW06-06FJ90T	10	3/8	9/16-16	22.9	.90	40.2	1.58				
BW08-08FJ90T	12	1/2	3/4-16	27.7	1.09	45.8	1.80				
BW08-10FJ90T	12	1/2	7/8-14	31.3	1.23	48.0	1.89				
BW08-12FJ90T	12	1/2	1-1/16 12	46.3	1.82	45.8	1.80				
BW10-10FJ90T	16	5/8	7/8-14	31.3	1.23	51.6	2.03				
BW10-12FJ90T	16	5/8	1-1/16 12	65.3	2.57	71.4	2.81				
BW12-12FJ90T	20	3/4	1-1/16 12	65.3	2.57	69.4	2.73				
BW12-16FJ90T	20	3/4	1-5/16 12	74.2	2.92	74.7	2.94				
BW16-16FJ90T	25	1	1-5/16 12	71.2	2.80	77.5	3.05				
BW16-20FJ90T	25	1	1-5/8 12	71.2	2.80	77.5	3.05				
BW20-20FJ90T	32	1-1/4	1-5/8 12	82.4	3.24	99.1	3.90				
BW20-24FJ90T	32	1-1/4	1-7/8 12	82.4	3.24	99.1	3.90				
BW24-24FJ90T	40	1-1/2	1-7/8 12	100.2	3.94	105.2	4.14				
BW32-32FJ90T	50	2	2-1/2 12	142.4	5.60	127.1	5.00				

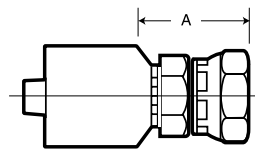
E-Z Miner™ Couplings BW Series

Style FJ90TL 90° Bent Tube Swivel Female SAE 37° Flare (Long Drop)



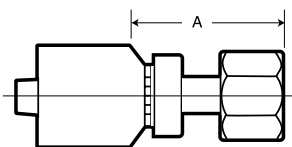
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04FJ90TL	6	1/4	7/16-20	47.8	1.88	37.9	1.49				
BW06-06FJ90TL	10	3/8	9/16-18	55.4	2.18	39.1	1.54				
BW08-08FJ90TL	12	1/2	3/4-16	61.8	2.43	45.2	1.78				
BW08-10FJ90TL	12	1/2	7/8-14	65.3	2.57	47.5	1.87				
BW12-12FJ90TL	20	3/4	1-1/16 12	94.8	3.73	69.4	2.73				

Style FN Swivel Female NPSM 30° Cone Seat



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04FN	6	1/4	1/4-18			29.7	1.17				
BW06-06FN	10	3/8	3/8-18			29.0	1.14				
BW08-08FN	12	1/2	1/2-14			31.8	1.25				
BW12-12FN	20	3/4	3/4-14			39.4	1.55				
BW16-16FN	25	1	1-11 1/2			40.2	1.58				

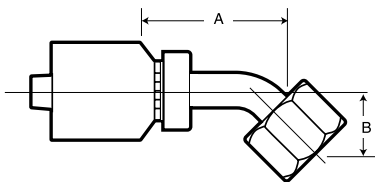
Style OFT Swivel Female O-Ring Face Seal



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04OFT	6	1/4	9/16-18			27.5	1.08				
BW04-06OFT	6	1/4	11/16-16			30.5	1.20				
BW06-06OFT	10	3/8	11/16-16			28.7	1.13				
BW06-08OFT	10	1/2	13/16-16			30.4	1.20				
BW08-08OFT	12	1/2	13/16-16			32.0	1.26				
BW08-10OFT	12	1/2	1-14			36.1	1.42				
BW10-10OFT	16	5/8	1-14			37.9	1.49				
BW10-12OFT	16	5/8	1-3/16 12			42.5	1.67				
BW12-10OFT	20	3/4	1-14			39.1	1.54				
BW12-12OFT	20	3/4	1-3/16 12			41.4	1.63				
BW12-16OFT	20	3/4	1-7/16 12			45.2	1.78				
BW16-16OFT	25	1	1-7/16 12			45.2	1.78				
BW16-20OFT	25	1	1-11/16 12			45.2	1.78				
BW20-20OFT	32	1-1/4	1-11/16 12			45.5	1.79				

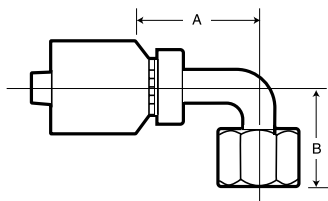
E-Z Miner™ Couplings BW Series

Style OF45T Swivel Female O-Ring Face Seal 45° Bent Tube



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04OF45T	6	1/4	9/16-18	10.4	.41	42.7	1.68				
BW04-06OF45T	6	1/4	11/16-16	10.9	.43	44.5	1.75				
BW06-06OF45T	10	3/8	11/16-16	10.9	.43	39.4	1.55				
BW06-08OF45T	10	3/8	13/16-16	15.0	.59	49.3	1.94				
BW08-08OF45T	12	1/2	13/16-16	15.0	.59	50.8	2.00				
BW08-10OF45T	12	1/2	1-14	16.5	.65	58.0	2.28				
BW10-10OF45T	16	5/8	1-14	16.5	.65	62.3	2.45				
BW10-12OF45T	16	5/8	1-3/16 12	21.1	.83	71.9	2.83				
BW12-12OF45T	20	3/4	1-3/26 12	21.1	.83	69.7	2.74				
BW12-16OF45T	20	3/4	1-7/16 12	23.9	.94	72.4	2.85				
BW16-16OF45T	25	1	1-7/16 12	23.9	.94	76.3	3.00				
BW16-20OF45T	25	1	1-11/16 12	25.4	1.00	77.8	3.06				
BW20-20OF45T	32	1-1/4	1-11/16 12	25.4	1.00	93.8	3.69				
BW24-24OF45T	40	1-1/2	2-12	27.2	1.07	102.2	4.02				

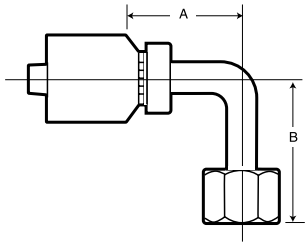
Style OF90T Swivel Female O-Ring Face Seal 90° Bent Tube



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04OF90T	6	1/4	9/16-18	20.8	.82	37.9	1.49				
BW04-06OF90T	6	1/4	11/16-16	22.9	.90	40.9	1.61				
BW06-06OF90T	10	3/8	11/16-16	22.9	.90	39.4	1.55				
BW06-08OF90T	10	3/8	13/16-16	29.2	1.15	43.5	1.71				
BW08-08OF90T	12	1/2	13/16-16	29.2	1.15	45.8	1.80				
BW08-10OF90T	12	1/2	1-14	29.2	1.15	58.5	2.30				
BW10-10OF90T	16	5/8	1-14	32.3	1.27	62.8	2.47				
BW10-12OF90T	16	5/8	1-3/16 12	47.8	1.88	67.6	2.66				
BW12-12OF90T	20	3/4	1-3/16 12	47.8	1.88	65.3	2.57				
BW12-16OF90T	20	3/4	1-7/16 12	56.2	2.21	65.3	2.57				
BW16-16OF90T	25	1	1-7/16 12	56.2	2.21	74.7	2.94				
BW20-20OF90T	32	1-1/4	1-11/16 12	63.8	2.51	94.3	3.71				
BW24-24OF90T	40	1-1/2	2-12	68.6	2.70	104.7	4.12				

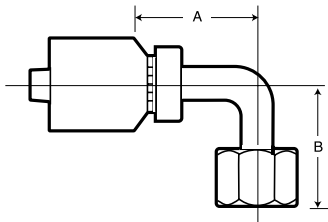
E-Z Miner™ Couplings BW Series

Style OF90TL Swivel Female O-Ring Face Seal 90° Elbow (Long Drop)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04OF90TL	6	1/4	9/16-18	45.8	1.80	37.9	1.49				
BW04-06OF90TL	6	1/4	11/16-16	54.1	2.13	40.9	1.61				
BW06-06OF90TL	10	3/8	11/16-16	54.1	2.13	39.1	1.54				
BW06-08OF90TL	10	3/8	13/16-16	63.8	2.51	45.8	1.80				
BW08-08OF90TL	12	1/2	13/16-16	63.8	2.51	45.8	1.80				
BW08-10OF90TL	12	1/2	1-14	70.2	2.76	62.8	2.47				
BW12-12OF90TL	20	3/4	1-3/16 12	96.1	3.78	65.3	2.57				
BW16-16OF90TL	25	1	1-7/16 12	114.4	4.50	74.7	2.94				
BW20-20OF90TL	32	1-1/4	1-11/16 12	129.4	5.09	94.3	3.71				

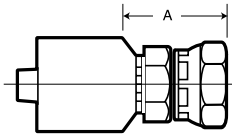
Style OF90TM Swivel Female O-Ring Face Seal 90° Elbow (Medium Drop)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04OF90TM	6	1/4	9/16-18	32.0	1.26	37.9	1.49				
BW04-06OF90TM	6	1/4	11/16-16	38.4	1.51	40.9	1.61				
BW06-06OF90TM	10	3/8	11/16-16	38.9	1.53	39.1	1.54				
BW06-08OF90TM	10	3/8	13/16 16	23.9	.94	45.8	1.80				
BW08-08OF90TM	12	1/2	13/16 16	41.2	1.62	45.8	1.80				
BW08-10OF90TM	12	1/2	1-14	28.5	1.12	62.5	2.46				
BW12-12OF90TM	20	3/4	1-3/16 12	58.0	2.28	65.3	2.57				
BW16-16OF90TM	25	1	1-7/16 12	70.7	2.78	74.7	2.94				
BW20-20OF90TM	32	1-1/4	1-11/16 12	78.5	3.09	94.3	3.71				

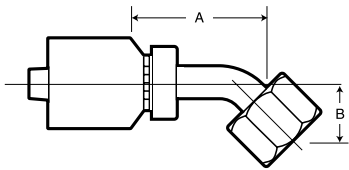
E-Z Miner™ Couplings BW Series

Style BPF BSPP Swivel Female Male 60° Cone



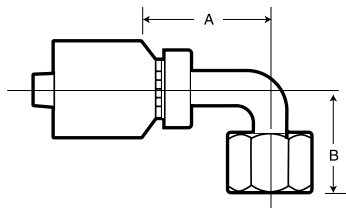
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04BPF	6	1/4	1/4-19			32.0	1.26				
BW06-06BPF	10	3/8	3/8-19			30.8	1.21				
BW08-08BPF	12	1/2	1/2-14			36.9	1.45				
BW10-12BPF	16	5/8	3/4-14			40.4	1.59				
BW12-12BPF	20	3/4	3/4-14			39.7	1.56				
BW16-16BPF	25	1	1-11			40.9	1.61				
BW20-20BPF	32	1-1/4	1-1/4 11			47.0	1.85				
BW24-24BPF	40	1-1/2	1-1/2 11			59.7	2.35				
BW32-32BPF	50	2	2-11			64.3	2.53				

Style BPF45T BSPP 45° Bent Tube Swivel Female



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04BPF45T	6	1/4	1/4-19	20.3	.80	52.4	2.06				
BW06-06BPF45T	10	3/8	3/8-19	23.1	.91	54.9	2.16				
BW08-08BPF45T	12	1/2	1/2-14	25.4	1.00	61.5	2.42				
BW12-12BPF45T	20	3/4	3/4-14	31.8	1.25	80.3	3.16				
BW16-16BPF45T	25	1	1-11	38.1	1.50	84.1	3.31				
BW20-20BPF45T	32	1-1/4	1-1/4 11	44.5	1.75	114.6	4.51				
BW24-24BPF45T	40	1-1/2	1-1/2 11	47.5	1.87	120.5	4.74				
BW32-32BPF45T	50	2	2-11	52.6	2.07	135.0	5.31				

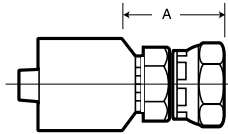
Style BPF90T BSPP 90° Bent Tube Swivel Female



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04BPF90T	6	1/4	1/4-19	35.3	1.39	37.9	1.49				
BW06-06BPF90T	10	3/8	3/8-19	42.2	1.66	39.1	1.54				
BW08-08BPF90T	12	1/2	1/2-14	49.6	1.95	45.8	1.80				
BW12-12BPF90T	20	3/4	3/4-14	60.5	2.38	65.3	2.57				
BW16-16BPF90T	25	1	1-11	76.0	2.99	68.6	2.70				
BW20-20BPF90T	32	1-1/4	1-1/4 11	108.8	4.28	93.0	3.66				
BW24-24BPF90T	40	1-1/2	1-1/2 11	98.6	3.88	104.7	4.12				
BW32-32BPF90T	50	2	2-11	118.7	4.67	127.1	5.00				

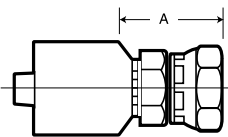
E-Z Miner™ Couplings BW Series

Style JPF Swivel Female Japanese Industrial Standard 30° Flare – BSPP Threads



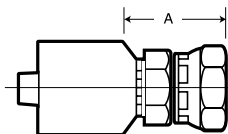
Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-04JPF	6	1/4	1/4-19			28.8	1.13				
BW06-06JPF	10	3/8	3/8-19			43.5	1.71				
BW08-08JPF	12	1/2	1/2-14			36.9	1.45				
BW12-12JPF	20	3/4	3/4-14			40.9	1.61				
BW16-16JPF	25	1	1-11			46.0	1.81				

Style KMF Swivel Female 30° Seat – Metric Thread – (Komatsu)



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-14KMF	6	1/4	M14 X 1.5			30.2	1.19				
BW06-18KMF	10	3/8	M18 X 1.5			30.0	1.18				
BW08-22KMF	12	1/2	M22 X 1.5			38.1	1.50				
BW08-24KMF	12	1/2	M24 X 1.5			41.4	1.63				
BW12-30KMF	20	3/4	M30 X 1.5			44.7	1.76				
BW16-33KMF	25	1	M33 X 1.5			46.0	1.81				
BW20-36KMF	32	1-11/4	M36 X 1.5			58.0	2.28				
BW24-42KMF	40	1-1/2	M42 X 1.5			62.5	2.46				

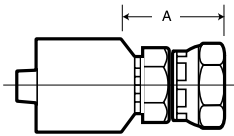
Style RO Metric Swivel Female 24° Cone With O-Ring (Light Series)



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-06RO12A	6	1/4	M12 X 1.5			30.5	1.20				
BW04-08RO14A	6	1/4	M14 X 1.5			31.0	1.22				
BW04-10RO16A	6	1/4	M16 X 1.5			33.8	1.33				
BW06-10RO16A	10	3/8	M16 X 1.5			34.1	1.34				
BW06-12RO18A	10	3/8	M18 X 1.5			34.1	1.34				
BW06-15RO22A	10	3/8	M22 X 1.5			35.1	1.38				
BW08-15RO22A	12	1/2	M22 X 1.5			36.6	1.44				
BW10-18RO26A	16	5/8	M26 X 1.5			36.9	1.45				
BW12-18RO26A	20	3/4	M26 X 1.5			39.1	1.54				
BW12-22RO30B	20	3/4	M30 X 2			46.3	1.82				
BW16-28RO36B	25	1	M36 X 2			44.0	1.73				
BW20-35RO45B	32	1-1/4	M45 X 2			55.2	2.17				

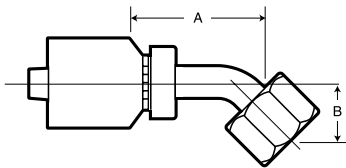
E-Z Miner™ Couplings BW Series

Style RO Metric Swivel Female 24° Cone With O-Ring (Heavy Series)



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-08RO16A	6	1/4	M16 X 1.5			33.8	1.33				
BW04-10RO18A	6	1/4	M18 X 1.5			33.8	1.33				
BW06-08RO16A	10	3/8	M16 X 1.5			32.0	1.26				
BW06-12RO20A	10	3/8	M20 X 1.5			34.8	1.37				
BW06-14RO22A	10	3/8	M22 X 1.5			35.1	1.38				
BW08-12RO20A	12	1/2	M20 X 1.5			35.1	1.38				
BW08-16RO24A	12	1/2	M24 X 1.5			37.9	1.49				
BW10-20RO30B	16	5/8	M30 X 2			44.2	1.74				
BW12-20RO30B	20	3/4	M30 X 2			46.3	1.82				
BW12-25RO36B	20	3/4	M36 X 2			44.0	1.73				
BW16-30RO42B	25	1	M42 X 2			50.8	2.00				
BW20-30RO42B	32	1-1/4	M42 X 2			51.3	2.02				
BW20-38RO52B	32	1-1/4	M52 X 2			50.1	1.97				

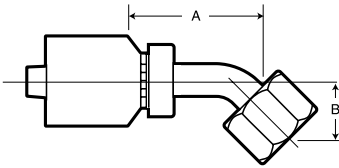
Style RO45T 45° Bent Tube Metric Swivel Female 24° Cone With O-Ring (Light Series)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-08RO14A45T	6	1/4	M14 X 1.5	25.2	.99	57.2	2.25				
BW04-10RO16A45T	6	1/4	M16 X 1.5	23.9	.94	57.4	2.26				
BW06-10RO16A45T	10	3/8	M16 X 1.5	23.9	.94	55.4	2.18				
BW06-12RO18A45T	10	3/8	M18 X 1.5	23.1	.91	54.9	2.16				
BW08-15RO22A45T	12	1/2	M22 X 1.5	25.2	.99	60.5	2.38				
BW10-18RO26A45T	16	5/8	M26 X 1.5	28.7	1.13	76.0	2.99				
BW12-18RO26A45T	20	3/4	M26 X 1.5	28.7	1.13	72.7	2.86				
BW12-22RO30B45T	20	3/4	M30 X 2	35.3	1.39	82.6	3.25				
BW16-28RO36B45T	25	1	M36 X 2	42.2	1.66	94.6	3.72				
BW20-35RO45B45T	32	1-1/4	M45 X 2								

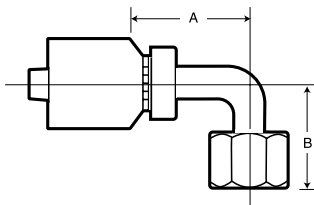
E-Z Miner™ Couplings BW Series

Style RO45T 45° Bent Tube Swivel Metric Female 24° Cone With O-Ring (Heavy Series)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-08RO16A45T	6	1/4	M16 X 1.5	21.9	.86	53.9	2.12				
BW04-10RO18A45T	6	1/4	M18 X 1.5	22.4	.88	54.7	2.15				
BW06-08RO16A45T	10	3/8	M16 X 1.5	22.6	.89	52.6	2.07				
BW06-12RO20A45T	10	3/8	M20 X 1.5	23.9	.94	55.7	2.19				
BW06-14RO22A45T	10	3/8	M22 X 1.5	24.1	.95	55.9	2.20				
BW08-12RO20A45T	12	1/2	M20 X 1.5	28.0	1.10	64.1	2.52				
BW08-16RO24A45T	12	1/2	M24 X 1.5	25.4	1.00	61.0	2.40				
BW10-20RO30B45T	16	5/8	M30 X 2	35.1	1.38	85.7	3.37				
BW12-20RO30B45T	20	3/4	M30 X 2	35.1	1.38	83.4	3.28				
BW12-25RO36B45T	20	3.4	M36 X 2	30.2	1.19	76.5	3.01				
BW16-30RO42B45T	25	1	M42 X 2	40.4	1.59	101.7	4.00				
BW20-30RO42B45T	32	1-1/4	M42 X 2	40.4	1.59	108.0	4.25				
BW20-38RO52B45T	32	1-1/4	M52 X 2	44.2	1.74	111.3	4.38				

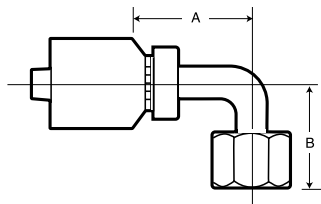
Style RO90T 90° Bent Tube Metric Swivel Female 24° Cone With O-Ring (Light Series)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-08RO14A90T	6	1/4	M14 X 1.5	41.9	1.65	37.6	1.48				
BW04-10RO16A90T	6	1/4	M16 X 1.5	41.4	1.63	40.9	1.61				
BW06-10RO16A90T	10	3/8	M16 X 1.5	38.1	1.50	39.1	1.54				
BW06-12RO18A90T	19	3/8	M18 X 1.5	45.2	1.78	39.1	1.54				
BW08-15RO22A90T	12	1/2	M22 X 1.5	45.2	1.78	45.0	1.77				
BW10-18RO26A90T	16	5/8	M26 X 1.5	54.4	2.14	58.5	2.30				
BW12-18RO26A90T	20	3/4	M26 X 1.5	54.4	2.14	55.2	2.17				
BW12-22RO30B90T	20	3/4	M30 X 2	67.1	2.64	72.7	2.86				
BW16-28RO36B90T	25	1	M36 X 2	78.8	3.10	74.7	2.94				
BW20-35RO45B90T	32	1-1/4	M45 X 2	93.5	3.68	99.1	3.90				

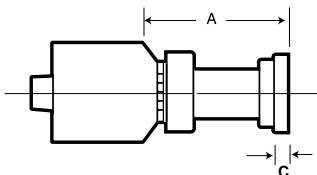
E-Z Miner™ Couplings BW Series

Style RO90T 90° Bent Tube Swivel Metric Female 24° Cone With O-Ring (Heavy Series)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW04-08RO16A90T	6	1/4	M16 X 1.5	36.4	1.43	37.9	1.49				
BW04-10RO18A90T	6	1/4	M18 X 1.5	38.1	1.50	37.9	1.49				
BW06-08RO16A90T	10	3/8	M16 X 1.5	39.7	1.56	37.4	1.47				
BW06-12RO20A90T	10	3/8	M20 X 1.5	41.2	1.62	39.1	1.54				
BW06-14RO22A90T	10	3/8	M22 X 1.5	41.7	1.64	39.1	1.54				
BW08-12RO20A90T	12	1/2	M20 X 1.5	49.3	1.94	45.8	1.80				
BW08-16RO24A90T	12	1/2	M24 X 1.5	45.2	1.78	45.0	1.77				
BW10-20RO30B90T	16	5/8	M30 X 2	64.6	2.54	73.7	2.90				
BW12-20RO30B90T	20	3/4	M30 X 2	64.6	2.54	71.4	2.81				
BW12-25RO36B90T	20	3/4	M36 X 2	60.0	2.36	71.4	2.81				
BW16-30RO42B90T	25	1	M42 X 2	83.4	3.28	86.9	3.42				
BW20-30RO42B90T	32	1-1/4	M42 X 2	83.4	3.28	93.3	3.67				
BW20-38RO52B90T	32	1-1/4	M52 X 2	93.5	3.68	99.1	3.90				

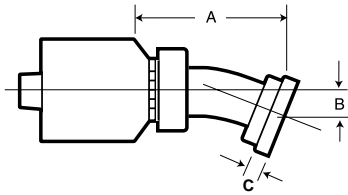
Style PA Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW06-08PA	10	3/8				47.0	1.85	30.2	1.19	6.73	.265
BW08-08PA	12	1/2				46.8	1.84	30.2	1.19	6.73	.265
BW08-12PA	12	1/2				40.7	1.60	38.1	1.50	6.73	.265
BW12-12PA	20	3/4				59.2	2.33	38.1	1.50	6.73	.265
BW12-16PA	20	3/4				59.5	2.34	44.5	1.75	8.00	.315
BW12-20PA	20	3/4				58.2	2.29	50.8	2.00	8.00	.315
BW16-16PA	25	1				59.2	2.33	44.5	1.75	8.00	.315
BW16-16PAL	25	1				94.3	3.71	44.5	1.75	8.00	.315
BW16-20PA	25	1				59.2	2.33	50.8	2.00	8.00	.315
BW16-24PA	25	1				60.2	2.37	60.3	2.38	8.00	.315
BW16-32PA	25	1				59.2	2.33	71.4	2.81	9.52	.375
BW20-20PA	32	1-1/4				70.2	2.76	50.8	2.00	8.00	.315
BW20-20PAL	32	1-1/4				78.3	3.08	50.8	2.00	8.00	.315
BW20-24PA	32	1-1/4				71.7	2.82	60.3	2.38	8.00	.315
BW20-24PAL	32	1-1/4				165.5	6.51	60.3	2.38	8.00	.315
BW20-32PA	32	1-1/4				70.2	2.76	71.4	2.81	9.52	.375
BW24-24PA	40	1-1/2				74.0	2.91	60.3	2.38	8.00	.315
BW24-32PA	40	1-1/2				72.4	2.85	71.4	2.81	9.52	.375
BW32-32PA	50	2				103.0	4.05	71.4	2.81	9.52	.375
BW32-40PA	50	2				103.0	4.05	84.1	3.31	9.53	.375

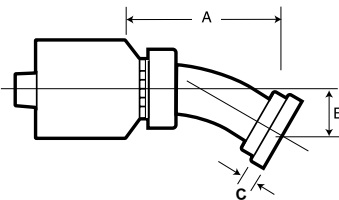
E-Z Miner™ Couplings BW Series

Style PA22 22-1/2° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PA22	12	1/2		9.7	.38	58.5	2.30	30.2	1.19	6.73	.265
BW08-12PA22	2	1/2		12.2	.48	61.8	2.43	38.1	1.50	6.73	.265
BW12-12PA22	20	3/4		12.5	.49	68.9	2.71	38.1	1.50	6.73	.265
BW12-16PA22	20	3/4		12.5	.49	68.9	2.71	44.5	1.75	8.00	.315
BW16-16PA22	25	1		12.7	.50	71.9	2.83	44.5	1.75	8.00	.315
BW16-20PA22	25	1		12.7	.50	71.9	2.83	50.8	2.00	8.00	.315
BW16-24PA22	25	1		13.0	.51	73.5	2.89	60.3	2.38	8.00	.315
BW20-20PA22	32	1-1/4		12.2	.48	78.0	3.07	50.8	2.00	8.00	.315
BW20-24PA22	32	1-1/4		12.7	.50	80.3	3.16	60.3	2.38	8.00	.315
BW24-24PA22	40	1-1/2		17.0	.67	101.9	4.01	60.3	2.38	8.00	.315
BW24-32PA22	40	1-1/2		16.0	.63	99.4	3.91	71.4	2.81	9.52	.375
BW32-32PA22	50	2		24.7	.97	124.0	4.88	71.4	2.81	9.52	.375

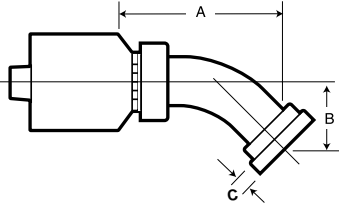
Style PA30 30° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PA30	12	1/2		12.7	.50	55.7	2.19	30.2	1.19	6.73	.265
BW08-12PA30	12	1/2		16.8	.66	63.6	2.50	38.1	1.50	6.73	.265
BW12-12PA30	20	3/4		17.0	.67	71.2	2.80	38.1	1.50	6.73	.265
BW12-16PA30	20	3/4		17.0	.67	71.2	2.80	44.5	1.75	8.00	.315
BW16-16PA30	25	1		15.3	.60	71.4	2.81	44.5	1.75	8.00	.315
BW16-20PA30	25	1		15.3	.60	71.4	2.81	50.8	2.00	8.00	.315
BW16-24PA30	25	1		15.8	.62	71.7	2.82	60.3	2.38	8.00	.315
BW20-20PA30	32	1-1/4		18.3	.72	84.6	3.33	50.8	2.00	8.00	.315
BW20-24PA30	32	1-1/4		19.1	.75	85.9	3.38	60.3	2.38	8.00	.315
BW20-24PA30M	32	1-1/4		44.5	1.75	85.9	3.38	60.3	2.38	8.00	.315
BW24-24PA30	40	1-1/2		21.4	.84	110.3	4.34	60.3	2.38	8.00	.315
BW24-32PA30	40	1-1/2		20.3	.80	107.8	4.24	71.4	2.81	9.52	.375
BW32-32PA30	50	2		36.4	1.43	132.2	5.20	71.4	2.81	9.52	.375

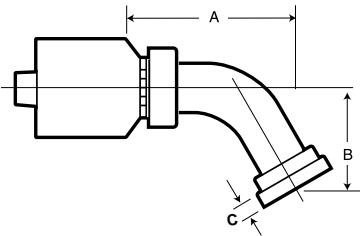
E-Z Miner™ Couplings BW Series

Style PA45 45° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW06-08PA45	10	3/8		17.5	.69	55.4	2.18	30.2	1.19	6.73	.265
BW08-08PA45	12	1/2		19.8	.78	55.9	2.20	30.2	1.19	6.73	.265
BW08-12PA45	12	1/2		20.8	.82	56.9	2.24	38.1	1.50	6.73	.265
BW08-16PA45	12	1/2		19.8	.78	69.6	2.74	44.5	1.75	8.00	.315
BW12-12PA45	20	3/4		21.9	.86	70.4	2.77	38.1	1.50	6.73	.265
BW12-16PA45	20	3/4		21.9	.86	70.4	2.77	44.5	1.75	8.00	.315
BW16-16PA45	25	1		28.7	1.13	68.9	2.71	44.5	1.75	8.00	.315
BW16-20PA45	25	1		24.1	.95	71.2	2.80	50.8	2.00	8.00	.315
BW20-20PA45	32	1-1/4		29.7	1.17	92.8	3.65	50.8	2.00	8.00	.315
BW20-24PA45	32	1-1/4		30.8	1.21	93.3	3.67	60.3	2.38	8.00	.315
BW24-24PA45	40	1-1/2		35.6	1.40	113.1	4.45	60.3	2.38	8.00	.315
BW24-32PA45	40	1-1/2		34.8	1.37	112.6	4.43	71.4	2.81	9.52	.375
BW32-32PA45	50	2		57.4	2.26	138.5	5.45	71.4	2.81	9.52	.375

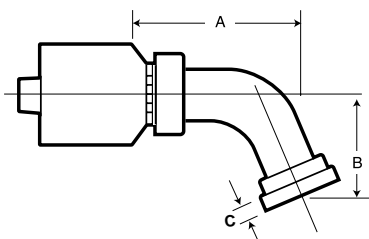
Style PA60 60° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PA60	12	1/2		26.7	1.05	54.1	2.13	30.2	1.19	6.73	.265
BW08-12PA60	12	1/2		28.5	1.12	56.4	2.22	38.1	1.50	6.73	.265
BW12-12PA60	20	3/4		35.8	1.41	74.0	2.91	38.1	1.50	6.73	.265
BW12-16PA60	20	3/4		35.8	1.41	74.0	2.91	44.5	1.75	8.00	.315
BW16-16PA60	25	1		45.0	1.77	89.0	3.50	44.5	1.75	8.00	.315
BW16-20PA60	25	1		40.7	1.60	88.7	3.49	50.8	2.00	8.00	.315
BW20-20PA60	32	1-1/4		43.7	1.72	104.5	4.11	50.8	2.00	8.00	.315
BW20-20PA60M	32	1-1/4		65.1	2.56	117.1	4.605	50.8	2.00	8.00	.315
BW20-24PA60	32	1-1/4		44.2	1.74	103.0	4.05	60.3	2.38	8.00	.315
BW24-24PA60	40	1-1/2		54.1	2.13	122.5	4.82	60.3	2.38	8.00	.315
BW24-32PA60	40	1-1/2		52.4	2.06	121.3	4.77	71.4	2.81	9.52	.375
BW32-32PA60	50	2		80.8	3.18	139.8	5.50	71.4	2.81	9.52	.375

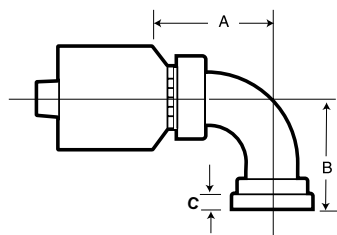
E-Z Miner™ Couplings BW Series

Style PA67 67° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PA67	12	1/2		31.8	1.25	53.4	2.10	30.2	1.19	6.73	.265
BW08-12PA67	12	1/2		33.3	1.31	53.9	2.12	38.1	1.50	6.73	.265
BW08-16PA67	12	1/2		31.8	1.25	55.2	2.17	44.5	1.75	8.00	.315
BW12-12PA67	20	3/4		43.5	1.71	79.6	3.13	38.1	1.50	6.73	.265
BW12-16PA67	20	3/4		43.5	1.71	79.6	3.13	44.5	1.75	8.00	.315
BW12-20PA67	20	3/4		43.7	1.72	79.6	3.13	50.8	2.00	8.00	.315
BW16-16PA67	25	1		51.9	2.04	82.6	3.25	44.5	1.75	8.00	.315
BW16-20PA67	25	1		47.0	1.85	81.9	3.22	50.8	2.00	8.00	.315
BW20-20PA67	32	1-1/4		49.3	1.94	98.9	3.89	50.8	2.00	8.00	.315
BW20-24PA67	32	1-1/4		50.6	1.99	99.4	3.91	60.3	2.38	8.00	.315
BW24-24PA67	40	1-1/2		62.0	2.44	124.0	4.88	60.3	2.38	8.00	.315
BW24-32PA67	40	1-1/2		60.0	2.36	122.8	4.83	71.4	2.81	9.52	.375
BW32-32PA67	50	2		90.2	3.55	138.3	5.44	71.4	2.81	9.52	.375

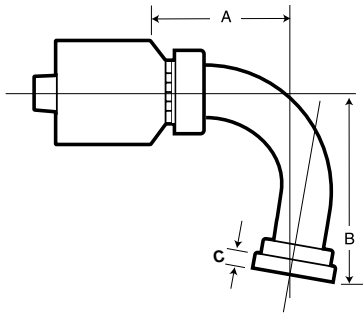
Style PA90 90° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW06-08PA90	10	3/8		38.4	1.51	47.5	1.87	30.2	1.19	6.73	.265
BW08-08PA90	12	1/2		41.4	1.63	45.8	1.80	30.2	1.19	6.73	.265
BW08-08PA90M	12	1/2		41.4	1.63	45.8	1.80	30.2	1.19	6.73	.265
BW08-12PA90	12	1/2		43.0	1.69	55.2	2.17	38.1	1.50	6.73	.265
BW08-12PA90M	12	1/2		73.2	2.88	48.8	1.92	38.1	1.50	6.73	.265
BW08-16PA90	12	1/2		44.5	1.75	70.2	2.76	44.5	1.75	8.00	.315
BW12-12PA90	20	3/4		61.0	2.40	74.7	2.94	38.1	1.50	6.73	.265
BW12-12PA90M	20	3/4		95.3	3.75	70.9	2.79	38.1	1.50	6.73	.265
BW12-12PA90L	20	3/4		127.1	5.00	70.9	2.79	38.1	1.50	6.73	.265
BW12-16PA90	20	3/4		61.5	2.42	75.0	2.95	44.5	1.75	8.00	.315
BW12-16PA90M	20	3/4		79.3	3.12	70.9	2.79	44.5	1.75	8.00	.315
BW12-20PA90M	20	3/4		53.9	2.12	74.7	2.94	50.8	2.00	8.00	.315
BW16-16PA90	25	1		71.2	2.80	78.3	3.08	44.5	1.75	8.00	.315
BW16-16PA90M	25	1		117.4	4.62	80.3	3.16	44.5	1.75	8.00	.315
BW16-20PA90	25	1		56.9	2.24	71.2	2.80	50.8	2.00	8.00	.315
BW16-20PA90M	25	1		117.4	4.62	80.3	3.16	50.8	2.00	8.00	.315
BW16-24PA90	25	1		60.5	2.38	83.4	3.28	60.3	2.38	8.00	.315
BW20-20PA90	32	1-1/4		68.1	2.68	99.9	3.93	50.8	2.00	8.00	.315
BW20-20PA90M	32	1-1/4		101.7	4.00	98.6	3.88	50.8	2.00	8.00	.315
BW20-20PA90L	32	1-1/4		130.2	5.12	98.6	3.88	50.8	2.00	8.00	.315
BW20-20PA90X	32	1-1/4		168.3	6.62	98.6	3.88	50.8	2.00	8.00	.315
BW20-24PA90	32	1-1/4		69.7	2.74	99.9	3.93	60.3	2.38	8.00	.315
BW20-24PA90M	32	1-1/4		119.0	4.68	98.6	3.88	60.3	2.38	8.00	.315
BW24-24PA90	40	1-1/2		84.1	3.31	105.2	4.14	60.3	2.38	8.00	.315
BW24-24PA90M	40	1-1/2		147.4	5.80	104.5	4.11	60.3	2.38	8.00	.315
BW24-24PA90L	40	1-1/2		171.6	6.75	104.5	4.11	60.3	2.38	8.00	.315
BW24-32PA90	40	1-1/2		81.9	3.22	105.0	4.13	71.4	2.81	9.52	.375
BW24-32PA90L	40	1-1/2		171.6	6.75	104.5	4.11	71.4	2.81	9.52	.375
BW24-32PA90M	40	1-1/2		114.4	4.50	104.5	4.109	71.4	2.81	9.52	.375
BW32-32PA90	50	2		125.6	4.94	127.1	5.00	71.4	2.81	9.52	.375
BW32-32PA90M	50	2		165.2	6.50	126.6	4.98	71.4	2.81	9.52	.375
BW32-32PA90L	50	2		203.4	8.00	126.6	4.98	71.4	2.81	9.52	.375
BW32-40PA90	50	2		121.8	4.79	126.6	4.98	84.1	3.31	9.52	.375

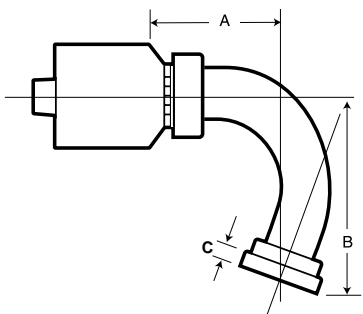
E-Z Miner™ Couplings BW Series

Style PA100 100° Elbow Flange SAE Code 61



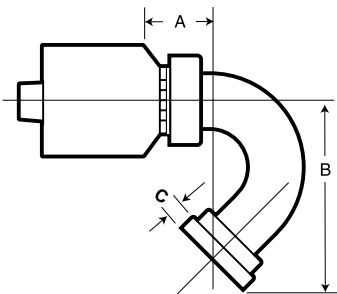
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PA100	20	3/4		59.2	2.33	65.8	2.59	38.1	1.50	6.73	.265
BW12-16PA100	20	3/4		64.1	2.52	87.7	3.45	44.5	1.75	8.00	.315

Style PA110 110° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-12PA110	12	1/2		49.6	1.95	38.1	1.50	38.1	1.50	6.73	.265
BW12-12PA110	20	3/4		63.6	2.50	60.0	2.36	38.1	1.50	6.73	.265
BW16-16PA110	25	1		73.2	2.88	58.7	2.31	44.5	1.75	8.00	.315
BW20-20PA110	32	1-1/4		79.3	3.12	83.6	3.29	50.8	2.00	8.00	.315
BW20-24PA110	32	1-1/4		80.6	3.17	83.1	3.27	60.3	2.38	8.00	.315
BW24-24PA110	40	1-1/2		93.8	3.69	84.9	3.34	60.3	2.38	8.00	.315
BW32-32PA110	50	2		140.6	5.53	108.5	4.27	71.4	2.81	9.52	.375

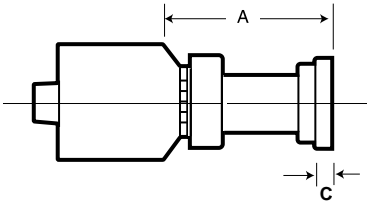
Style PA135 135° Elbow Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PA135	12	1/2		53.9	2.12	15.5	.61	30.2	1.19	6.73	.265
BW12-12PA135	20	3/4		76.3	3.00	38.9	1.53	38.1	1.50	6.73	.265
BW12-16PA135	20	3/4		70.2	2.76	44.2	1.74	44.5	1.75	8.00	.315

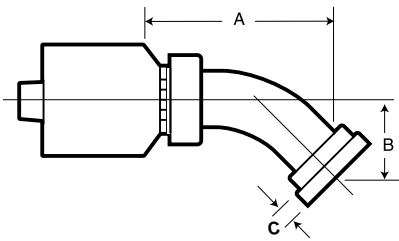
E-Z Miner™ Couplings BW Series

Style PAK Flange SAE Code 61 (Komatsu)



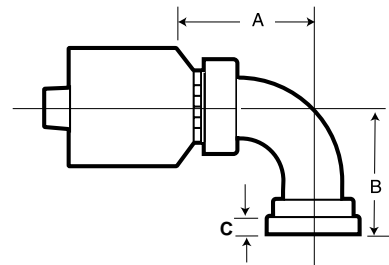
Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-10PAK	12	1/2				51.3	2.02	34.2	1.34	6.73	.265

Style PAK45 45° Elbow Flange SAE Code 61 (Komatsu)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-10PAK45	12	1/2		22.9	.90	71.9	2.83	34.2	1.34	6.73	.265

Style PAK90 90° Elbow Flange SAE Code 61 (Komatsu)

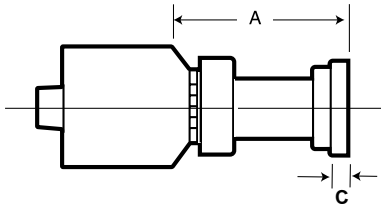


Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-10PAK90	12	1/2		47.0	1.85	60.5	2.38	34.2	1.34	6.73	.265

PAK End Style use standard -10 Flange O-Ring

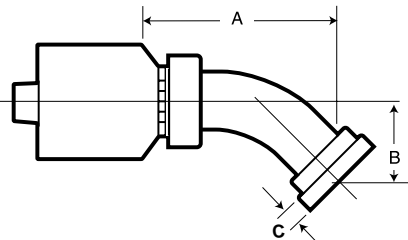
E-Z Miner™ Couplings BW Series

Style PH Flange SAE Code 62



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PH	12	1/2				50.8	2.00	31.7	1.25	7.74	.303
BW12-12PH	20	3/4				62.8	2.47	41.9	1.63	8.76	.345
BW12-16PH	20	3/4				64.8	2.55	47.7	1.88	9.52	.375
BW16-16PH	25	1				65.6	2.58	47.7	1.88	9.52	.375
BW16-20PH	25	1				70.4	2.77	54.1	2.13	10.28	.405
BW20-16PH	32	1-1/4				67.9	2.67	47.7	1.88	9.52	.375
BW20-20PH	32	1-1/4				81.3	3.20	54.1	2.13	10.28	.405
BW24-24PH	40	1-1/2				85.9	3.38	63.5	2.50	12.57	.495
BW32-32PH	50	2				115.2	4.53	79.5	3.13	12.57	.495

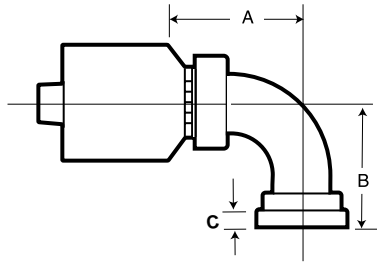
Style PH45 45° Elbow Flange SAE Code 62



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PH45	12	1/2		19.8	.78	55.9	2.20	31.7	1.25	7.74	.303
BW12-12PH45	20	3/4		23.6	.93	72.2	2.84	41.9	1.63	8.76	.345
BW12-16PH45	20	3/4		30.5	1.20	74.2	2.92	47.7	1.88	9.52	.375
BW16-16PH45	25	1		31.3	1.23	80.8	3.18	47.7	1.88	9.52	.375
BW16-20PH45	25	1		35.8	1.41	88.5	3.48	54.1	2.13	10.28	.405
BW20-16PH45	32	1-1/4		28.5	1.12	81.6	3.21	47.7	1.88	9.52	.375
BW20-20PH45	32	1-1/4		37.6	1.48	100.4	3.95	54.1	2.13	10.28	.405
BW24-24PH45	40	1-1/2		44.0	1.73	121.5	4.78	63.5	2.50	12.57	.495
BW32-32PH45	50	2		65.8	2.59	147.2	5.79	79.5	3.13	12.57	.495

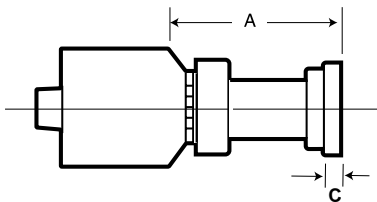
E-Z Miner™ Couplings BW Series

Style PH90 90° Elbow Flange SAE Code 62



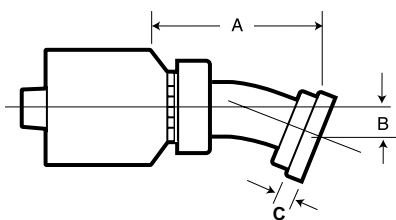
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW08-08PH90	12	1/2		43.5	1.71	45.8	1.80	31.7	1.25	7.74	.303
BW12-12PH90	20	3/4		63.6	2.50	74.7	2.94	41.9	1.63	8.76	.345
BW12-16PH90	20	3/4		66.3	2.61	74.7	2.94	47.7	1.88	9.52	.375
BW16-16PH90	25	1		63.6	2.50	68.4	2.69	47.7	1.88	9.52	.375
BW16-20PH90	25	1		68.4	2.69	67.9	2.67	54.1	2.13	10.28	.405
BW20-20PH90	32	1-1/4		79.3	3.12	99.9	3.93	54.1	2.13	10.28	.405
BW24-24PH90	40	1-1/2		96.1	3.78	105.2	4.14	63.5	2.50	12.57	.495
BW32-32PH90	50	2		137.5	5.41	127.1	5.00	79.5	3.13	12.57	.495

Style PHC O-Ring Flange SAE Code 62 – Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PHC	20	3/4				65.6	2.58	41.9	1.63	14.2	.560
BW12-16PHC	20	3/4				66.9	2.63	47.7	1.88	14.2	.560
BW16-16PHC	25	1				63.8	2.51	47.7	1.88	14.2	.560
BW16-20PHC	25	1				66.7	2.63	54.1	2.13	14.2	.560

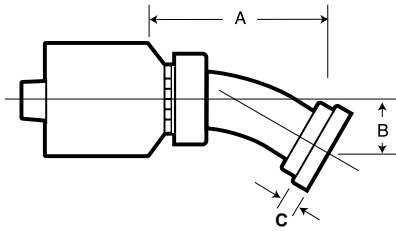
Style PHC22 221/2° Elbow O-Ring Flange SAE Code 62 – Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PHC22	20	3/4		15.0	.59	74.2	2.92	41.9	1.63	14.2	.560
BW12-16PHC22	20	3/4		15.8	.62	75.0	2.95	47.7	1.88	14.2	.560
BW16-16PHC22	25	1		15.8	.62	76.0	2.99	47.7	1.88	14.2	.560
BW16-20PHC22	25	1		17.0	.67	78.8	3.10	54.1	2.13	14.2	.560

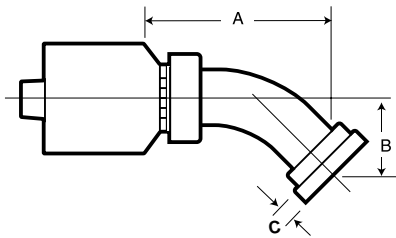
E-Z Miner™ Couplings BW Series

Style PHC30 30° Elbow O-Ring Flange SAE Code 62 – Caterpillar Style



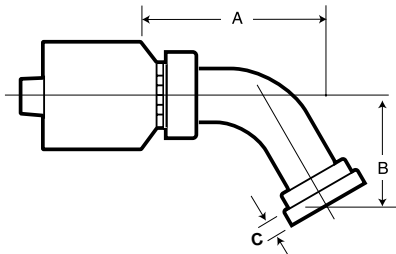
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PHC30	20	3/4		20.3	.80	76.3	3.00	41.9	1.63	14.2	.560
BW12-16PHC30	20	3/4		20.3	.80	76.3	3.00	47.7	1.88	14.2	.560
BW16-16PHC30	25	1		19.1	.75	74.0	2.91	47.7	1.88	14.2	.560
BW16-20PHC30	25	1		20.6	.81	76.8	3.02	54.1	2.13	14.2	.560

Style PHC45 45° Elbow O-Ring Flange SAE Code 62 – Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PHC45	20	3/4		26.7	1.05	74.2	2.92	41.9	1.63	14.2	.560
BW12-16PHC45	20	3/4		26.7	1.05	74.2	2.92	47.7	1.88	14.2	.560
BW16-16PHC45	25	1		29.5	1.16	75.8	2.98	47.7	1.88	14.2	.560
BW16-20PHC45	25	1		31.8	1.25	77.8	3.06	54.1	2.13	14.2	.560

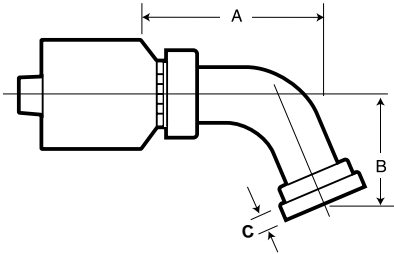
Style PHC60 60° Elbow O-Ring Flange SAE Code 62 – Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PHC60	20	3/4		41.7	1.64	76.5	3.01	41.9	1.63	14.2	.560
BW12-16PHC60	20	3/4		41.7	1.64	76.5	3.01	47.7	1.88	14.2	.560
BW16-16PHC60	25	1		48.0	1.89	89.2	3.51	47.7	1.88	14.2	.560
BW16-20PHC60	25	1		50.6	1.99	90.7	3.57	54.1	2.13	14.2	.560

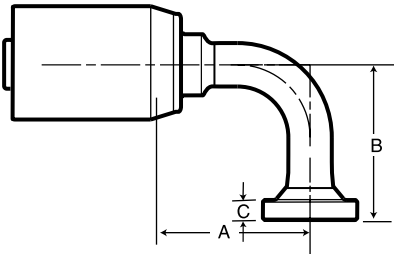
E-Z Miner™ Couplings BW Series

Style PHC67 67° Elbow O-Ring Flange SAE Code 62 – Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PHC67	20	3/4		49.8	1.96	81.3	3.20	41.9	1.63	14.2	.560
BW12-16PHC67	20	3/4		54.7	2.15	77.5	3.05	47.7	1.88	14.2	.560
BW16-16PHC67	25	1		54.7	2.15	84.6	3.33	47.7	1.88	14.2	.560
BW16-20PHC67	25	1		57.4	2.26	85.7	3.37	54.1	2.13	14.2	.560

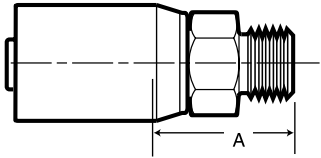
Style PHC90 90° Elbow O-Ring Flange SAE Code 62 – Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BW12-12PHC90	20	3/4		67.6	2.66	74.0	2.91	41.9	1.63	14.2	.560
BW12-16PHC90	20	3/4		67.6	2.66	74.0	2.91	47.7	1.88	14.2	.560
BW16-16PHC90	25	1		65.3	2.57	67.6	2.66	47.7	1.88	14.2	.560
BW16-20PHC90	25	1		68.4	2.69	67.6	2.66	54.1	2.13	14.2	.560

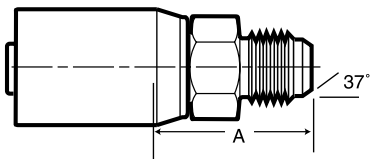
E-Z Miner™ Couplings NB Series

Style MP Rigid Male NPTF



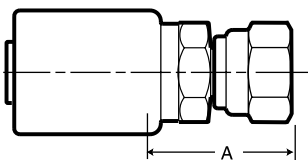
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20MP	32	1-1/4	1-1/4 11-1/2			56.9	2.24				
NB24-24MP	40	1-1/2	1-1/2 11-1/2			57.7	2.27				
NB32-32MP	50	2	2 11-1/2			63.3	2.49				

Style MJ Male SAE 37° Flare



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20MJ	32	1-1/4	1-5/8 12			50.1	1.97				
NB24-24MJ	40	1-1/2	1-7/8 12			59.7	2.35				
NB32-32MJ	50	2	2-1/2 12			71.2	2.80				

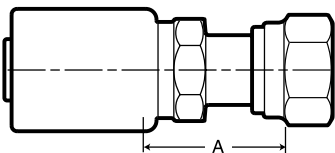
Style FJ Swivel Female SAE 37° Flare



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20FJ	32	1-1/4	1-5/8 12			50.8	2.00				
NB24-24FJ	40	1-1/2	1-7/8 12			56.4	2.22				
NB32-32FJ	50	2	1-1/2 12			76.0	2.99				

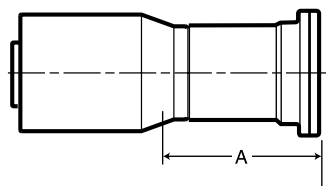
E-Z Miner™ Couplings NB Series

Style OFT Swivel Female O-Ring Face Seal



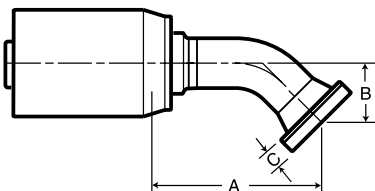
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20OFT	32	1-1/4	1-11/16 12			50.6	1.99				
NB24-24OFT	40	1-1/2	2 12			56.7	2.23				

Style PH Flange SAE Code 62



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-16PH	32	1-1/4				67.6	2.66	47.7	1.88	9.52	.375
NB20-20PH	32	1-1/4				78.3	3.08	54.1	2.13	10.28	.405
NB20-24PH	32	1-1/4				83.1	3.27	63.5	2.50	12.57	.495
NB24-20PH	40	1-1/2				78.5	3.09	54.1	2.13	10.28	.405
NB24-24PH	40	1-1/2				83.6	3.29	63.5	2.50	12.57	.495
NB24-32PH	40	1-1/2				95.3	3.75	79.5	3.13	12.57	.495
NB32-32PH	50	2				113.1	4.45	79.5	3.13	12.57	.495
NB32-24PH	50	2				90.7	3.57	63.5	2.50	12.57	.495

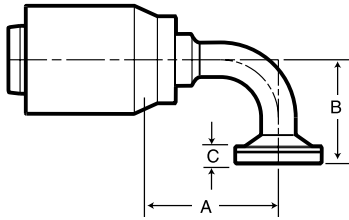
Style PH45 45° Elbow Flange SAE Code 62



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-16PH45	32	1-1/4		28.5	1.12	80.8	3.18	47.7	1.88	9.52	.375
NB20-20PH45	32	1-1/4		37.6	1.48	97.1	3.82	54.1	2.13	10.28	.405
NB20-24PH45	32	1-1/4		41.2	1.62	101.4	3.99	63.5	2.50	12.57	.495
NB24-20PH45	40	1-1/2		37.6	1.48	96.6	3.80	54.1	2.13	10.28	.405
NB24-24PH45	40	1-1/2		44.0	1.73	119.0	4.68	63.5	2.50	12.57	.495
NB24-32PH45	40	1-1/2		49.6	1.95	124.5	4.90	79.5	3.13	12.57	.495
NB32-32PH45	50	2		65.6	2.58	143.4	5.64	79.5	3.13	12.57	.495

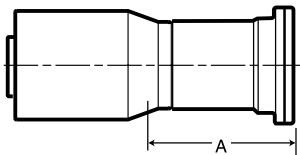
E-Z Miner™ Couplings NB Series

Style PH90 90° Elbow Flange SAE Code 62



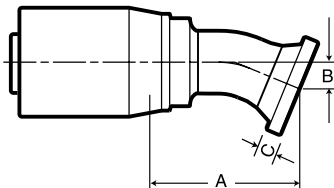
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PH90	32	1-1/4		79.6	3.13	96.3	3.79	54.1	2.13	10.28	.405
NB20-24PH90	32	1-1/4		84.4	3.32	97.1	3.82	63.5	2.50	12.57	.495
NB24-20PH90	40	1-1/2		79.8	3.14	96.1	3.78	54.1	2.13	10.28	.405
NB24-24PH90	40	1-1/2		96.1	3.78	102.7	4.04	63.5	2.50	12.57	.495
NB24-32PH90	40	1-1/2		104.0	4.09	102.7	4.04	79.5	3.13	12.57	.495
NB32-32PH90	50	2		138.0	5.43	125.8	4.95	79.5	3.13	12.57	.495

Style PHC 30° Elbow O-Ring Flange SAE Code 62 - Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PHC	32	1-1/4				78.0	3.07	54.1	2.13	14.2	.560
NB20-24PHC	32	1-1/4				83.1	3.27	63.5	2.5	14.2	.560
NB24-24PHC	40	1-1/2				83.4	3.28	63.5	2.50	14.2	.560
NB32-32PHC	50	2				113.7	4.47	79.5	3.13	14.2	.560

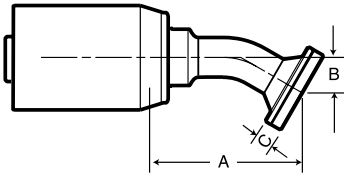
Style PHC22 22 1/2° Elbow O-Ring Flange SAE Code 62 - Caterpillar Style



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PHC22	32	1-1/4		16.3	.64	85.1	3.35	54.1	2.13	14.2	.560
NB20-24PHC22	32	1-1/4		18.0	.71	89.5	3.52	63.5	2.5	14.2	.560
NB24-24PHC22	40	1-1/2		21.6	.85	110.3	4.34	63.5	2.5	14.2	.560
NB32-32PHC22	50	2		29.2	1.15	133.2	5.24	79.5	3.13	14.2	.560

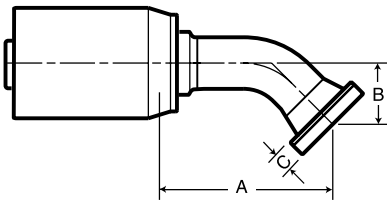
E-Z Miner™ Couplings NB Series

Style PHC30 30° Elbow O-Ring Flange SAE Code 62 - Caterpillar Style



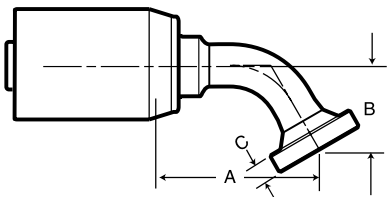
Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PHC30	32	1-1/4		23.4	.92	89.7	3.53	54.1	2.13	14.2	.560
NB20-24PHC30	32	1-1/4		25.9	1.02	93.8	3.69	63.5	2.5	14.2	.560
NB24-24PHC30	40	1-1/2		27.5	1.08	117.9	4.64	63.5	2.5	14.2	.560
NB32-32PHC30	50	2		42.5	1.67	140.8	5.54	79.5	3.13	14.2	.560

Style PHC45 45° Elbow O-Ring Flange SAE Code 62 - Caterpillar Style



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PHC45	32	1-1/4		41.2	1.62	96.6	3.80	54.1	2.13	14.2	.560
NB20-24PHC45	32	1-1/4		40.7	1.60	99.9	3.93	63.5	2.5	14.2	.560
NB24-24PHC45	40	1-1/2		44.0	1.73	119.0	4.68	63.5	2.5	14.2	.560
NB32-32PHC45	50	2		65.8	2.59	145.4	5.72	79.5	3.13	14.2	.560

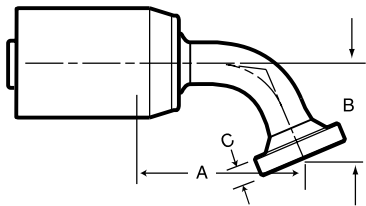
Style PHC60 60° Elbow O-Ring Flange SAE Code 62 - Caterpillar Style



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PHC60	32	1-1/4		52.1	2.05	105.0	4.13	54.1	2.13	14.2	.560
NB20-24PHC60	32	1-1/4		56.2	2.21	107.3	4.22	63.5	2.5	14.2	.560
NB24-24PHC60	40	1-1/2		64.6	2.54	126.1	4.96	63.5	2.5	14.2	.560
NB32-32PHC60	50	2		91.3	3.59	144.1	5.67	79.5	3.13	14.2	.560

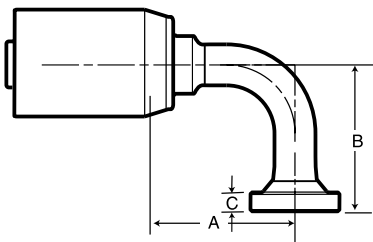
E-Z Miner™ Couplings NB Series

Style PHC67 67° Elbow O-Ring Flange SAE Code 62 - Caterpillar Style



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PHC67	32	1-1/4		59.0	2.32	100.1	3.94	54.1	2.13	14.2	.560
NB20-24PHC67	32	1-1/4		63.6	2.50	101.9	4.01	63.5	2.5	14.2	.560
NB24-24PHC67	40	1-1/2		73.2	2.88	126.1	4.96	63.5	2.5	14.2	.560
NB32-32PHC67	50	2		101.4	3.99	141.1	5.55	79.5	3.13	14.2	.560

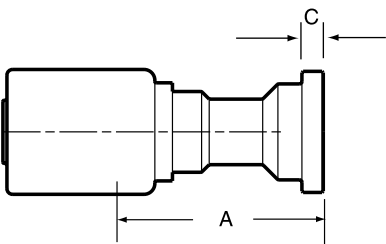
Style PHC90 90° Elbow O-Ring Flange SAE Code 62 - Caterpillar Style



Part Number	Hose I.D.		Thread Size	Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
NB20-20PHC90	32	1-1/4		78.8	3.10	96.3	3.79	54.1	2.13	14.2	.560
NB20-24PHC90	32	1-1/4		83.6	3.29	96.3	3.79	63.5	2.5	14.2	.560
NB24-24PHC90	40	1-1/2		96.1	3.78	102.7	4.04	63.5	2.5	14.2	.560
NB32-32PHC90	50	2		137.8	5.42	125.6	4.94	79.5	3.13	14.2	.560

E-Z Miner™ Couplings HY Series

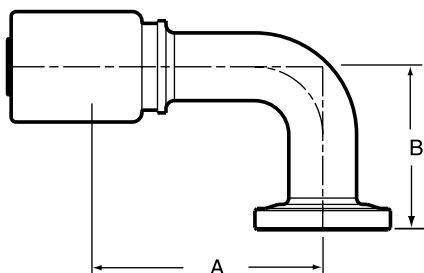
Style PA Flange SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HY29-24PA	45	1-13/16				86.7	3.41	60.3	2.38	8.00	.315
HY29-32PA	45	1-13/16				89.0	3.50	71.4	2.81	9.52	.375

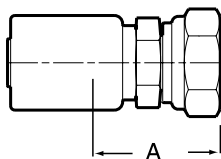
E-Z Miner™ Couplings HY Series

Style PA90 90° Elbow Flange SAE Code 61



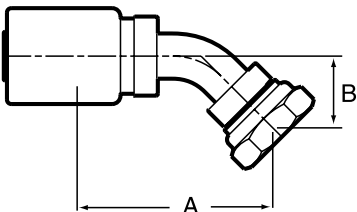
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HY29-24PA90	45	1-13/16		79.3	3.12	90.5	3.56	60.3	2.38	8.00	.315
HY29-32PA90	45	1-13/16		114.4	4.50	117.4	4.62	71.4	2.81	9.52	.375

Style RO Metric Swivel Female 24° Cone With O-Ring



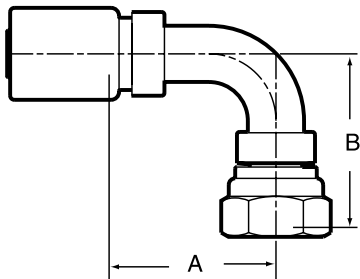
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HY29-42R052B	45	1-13/16	M52 X 2			52.9	2.08				

Style RO45T 45° Bent Tube Metric Swivel Female 24° Cone With O-Ring



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HY29-42R052B45T	45	1-13/16	M52 X 2	51.8	2.04	105.5	4.15				

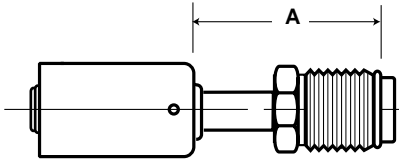
Style RO90T 90° Bent Tube Metric Swivel Female 24° Cone With O-Ring



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HY29-42R052B90T	45	1-13/16	M52 X 2	51.8	2.04	105.5	4.15				

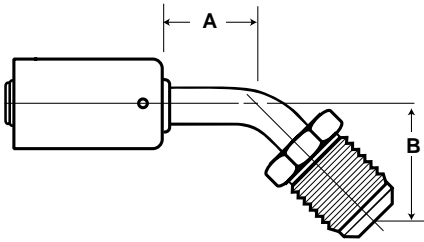
E-Z Miner™ Couplings BL Series

Style TAST Male 45° Flare Swivel Straight Tube



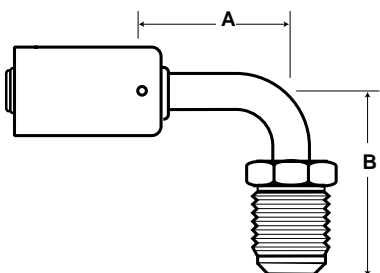
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TAST	8	5/16	5/8-18			48	1.88				
BL08-08TAST	11	13/32	3/4-16			51	2.00				
BL10-10TAST	12	1/2	7/8-14			59	2.31				
BL12-12TAST	16	5/8	1-1/16 14			63	2.50				

Style TA45T Male 45° Flare Swivel With 45° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TA45T	8	5/16	5/8-18	24.0	.94	21	.81				
BL08-08TA45T	11	13/32	3/4-16	27.0	1.06	24	.94				
BL10-10TA45T	12	1/2	7/8-14	28.0	1.12	32	1.25				
BL12-12TA45T	16	5/8	1-1/16 14	32.0	1.25	38	1.50				

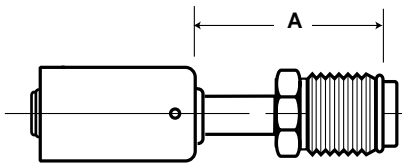
Style TA90T Male 45° Flare Swivel With 90° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TA90T	8	5/16	5/8-18	44.0	1.75	27	1.06				
BL08-08TA90T	11	13/32	3/4-16	46.0	1.81	32	1.25				
BL10-10TA90T	12	1/2	7/8-14	56.0	2.19	38	1.50				
BL12-12TA90T	16	5/8	1-1/16 14	62.0	2.45	44	1.75				

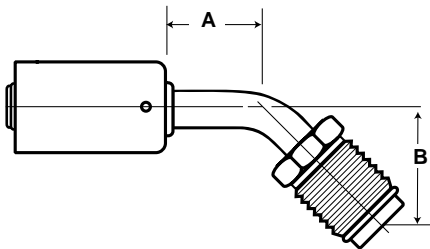
E-Z Miner™ Couplings BL Series

Style TMS Swivel Male Tube "O"



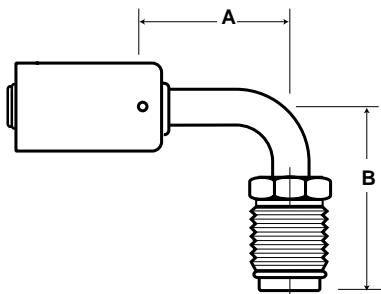
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TMS	8	5/16	5/8-18			43	1.69				
BL06-08TMS	8	5/16	3/4-16			44	1.75				
BL08-06TMS	11	13/32	5/8-18			44	1.75				
BL08-08TMS	11	13/32	3/4-16			44	1.75				
BL10-10TMS	12	1/2	7/8-14			48	1.88				
BL12-10TMS	16	5/8	7/8-14			60	2.38				
BL12-12TMS	16	5/8	1-1/16 14			60	2.38				

Style TM45T Swivel Male Tube "O" With 45° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TM45T	8	5/16	5/8-18	22.0	.88	20	.81				
BL06-08TM45T	8	5/16	3/4-16	25.0	1.00	24	.94				
BL08-06TM45T	11	13/32	5/8-18	25.0	1.00	24.0	0.94				
BL08-08TM45T	11	13/32	3/4-16	25.0	1.00	24.0	0.94				
BL10-10TM45T	12	1/2	7/8-14	27.0	1.06	32.0	1.25				
BL12-12TM45T	16	5/8	1-1/16 14	30.0	1.19	38.0	1.50				

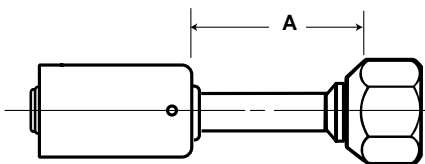
Style TM90T Swivel Male Tube "O" With 90° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TM90T	8	5/16	5/8-18	41.0	1.63	27.0	1.06				
BL06-08TM90T	8	5/16	3/4-16	48.0	1.88	32.0	1.25				
BL08-06TM90T	11	13/32	5/8-18	48.0	1.88	32.0	1.25				
BL08-08TM90T	11	13/32	3/4-16	48.0	1.88	32.0	1.25				
BL10-10TM90T	12	1/2	7/8-14	54.0	2.12	38.0	1.50				
BL12-10TM90T	16	5/8	7/8-14	57.0	2.25	44.0	1.75				
BL12-12TM90T	16	5/8	1-1/16 14	57.0	2.25	44.0	1.75				

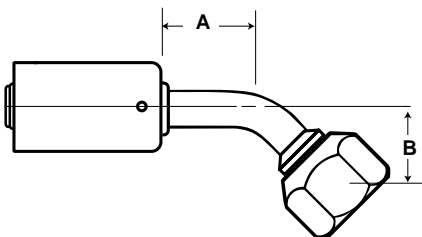
E-Z Miner™ Couplings BL Series

Style FAT Swivel Female 45° Seat With Straight Tube



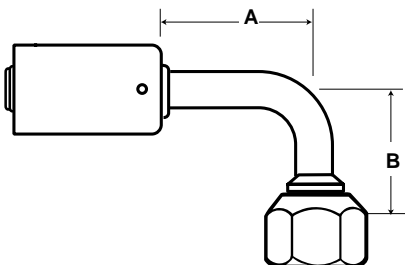
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06FAT	8	5/16	5/8-18			27.0	1.06				
BL06-08FAT	8	5/16	3/4-16			32.0	1.25				
BL08-06FAT	11	13/32	5/8-18			32.0	1.25				
BL08-08FAT	11	13/32	3/4-16			32.0	1.25				
BL10-08FAT	12	1/2	3/4-16			38.0	1.50				
BL10-10FAT	12	1/2	7/8-14			38.0	1.50				
BL12-10FAT	16	5/8	7/8-14			44.0	1.75				
BL12-12FAT	16	5/8	1-1/16 14			44.0	1.75				

Style FA45T Swivel Female With 45° Seat, 45° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06FA45T	8	5/16	5/8-18	14.0	.56	20.0	0.81				
BL06-08FA45T	8	5/16	3/4-16	16.0	.63	24.0	0.94				
BL08-06FA45T	11	13/32	5/8-18	16.0	.63	24.0	0.94				
BL08-08FA45T	11	13/32	3/4-16	16.0	.63	24.0	0.94				
BL10-08FA45T	12	1/2	3/4-16	16.0	.63	24.0	0.94				
BL10-10FA45T	12	1/2	7/8-14	20.0	.88	32.0	1.25				
BL12-10FA45T	16	5/8	7/8-14	25.0	1.00	38.0	1.50				
BL12-12FA45T	16	5/8	1-1/16 14	25.0	1.00	38.0	1.50				

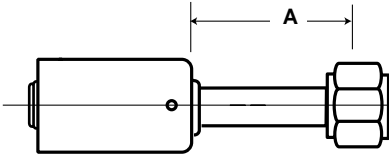
Style FA90T Swivel Female With 45° Seat, 90° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06FA90T	8	5/16	5/8-18	27.0	1.06	27.0	1.06				
BL06-08FA90T	8	5/16	3/4-16	32.0	1.25	32.0	1.25				
BL08-06FA90T	11	13/32	5/8-18	32.0	1.25	32.0	1.25				
BL08-08FA90T	11	13/32	3/4-16	32.0	1.25	32.0	1.25				
BL10-08FA90T	12	1/2	3/4-16	38.0	1.50	38.0	1.50				
BL10-10FA90T	12	1/2	7/8-14	38.0	1.50	38.0	1.50				
BL12-10FA90T	16	5/8	7/8-14	38.0	1.50	44.0	1.75				
BL12-12FA90T	16	5/8	1-1/16 14	38.0	1.5	44.0	1.75				

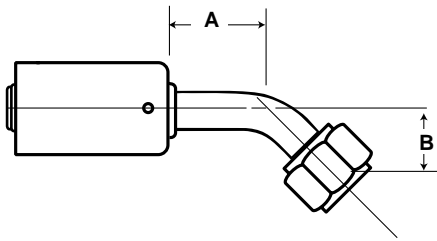
E-Z Miner™ Couplings BL Series

Style TFS Swivel Female Tube "O" Straight Tube



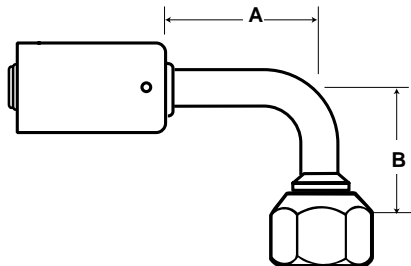
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TFS	8	5/16	5/8-18			35.0	1.38				
BL06-08TFS	8	5/16	3/4-16			38.0	1.50				
BL08-06TFS	11	13/32	5/8-18			38.0	1.50				
BL08-08TFS	11	13/32	3/4-16			38.0	1.50				
BL10-08TFS	12	1/2	3/4-16			43.0	1.69				
BL10-10TFS	12	1/2	7/8-14			43.0	1.69				
BL10-12TFS	12	1/2	1-1/16 14			46.0	1.81				
BL12-10TFS	16	5/8	7/8-14			46.0	1.81				
BL12-12TFS	16	5/8	1-1/16 14			46.0	1.81				

Style TF45T Swivel Female Tube "O" 45° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TF45T	8	5/16	5/8-18	14.0	.56	20.0	0.81				
BL08-06TF45T	11	13/32	5/8-18	16.0	.63	24.0	0.94				
BL08-08TF45T	11	13/32	3/4-16	16.0	.63	24.0	0.94				
BL10-08TF45T	12	1/2	3/4-16	22.0	.88	32.0	1.25				
BL10-10TF45T	12	1/2	7/8-14	22.0	.88	32.0	1.25				
BL12-10TF45T	16	5/8	7/8-14	24.0	.94	38.0	1.50				
BL12-12TF45T	16	5/8	1-1/16 14	24.0	.94	38.0	1.50				

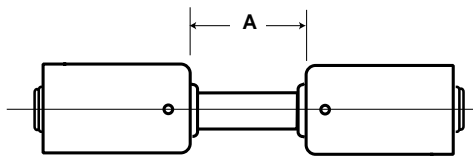
Style TF90T Swivel Female Tube "O" 90° Bend



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06TF90T	8	5/16	5/8-18	28.0	1.12	27.0	1.06				
BL06-08TF90T	8	5/16	3/4-16	33.0	1.31	32.0	1.25				
BL08-06TF90T	11	13/32	5/8-18	33.0	1.31	32.0	1.25				
BL08-08TF90T	11	13/32	3/4-16	33.0	1.31	32.0	1.25				
BL10-08TF90T	12	1/2	3/4-16	38.0	1.50	38.0	1.50				
BL10-10TF90T	12	1/2	7/8-14	38.0	1.50	38.0	1.05				
BL10-12TF90T	12	1/2	1-1/16 14	44.0	1.75	44.0	1.75				
BL12-10TF90T	16	5/8	7/8-14	44.0	1.75	44.0	1.75				
BL12-12TF90T	16	5/8	1-1/16 14	44.0	1.75	44.0	1.75				

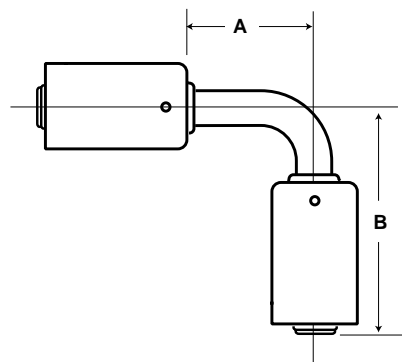
E-Z Miner™ Couplings BL Series

Style RM Hose Splicer (Use With New Hose Only)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
BL06-06RM	8	5/16				38.0	1.50				
BL08-06RM	11	13/32				38.0	1.50				
BL08-08RM	11	13/32				38.0	1.50				
BL10-08RM	12	1/2				41.0	1.63				
BL10-10RM	12	1/2				41.0	1.63				
BL12-10RM	16	5/8				44.0	1.75				
BL12-12RM	16	5/8				44.0	1.75				

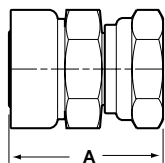
Style RM90T Hose Splicer (Use With New Hose Only)



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off	
	DN	Inch		MM	Inch	MM	Inch
BL06-06RM90T	8	5/16		32.0	1.25	32.0	1.25
BL08-08RM90T	11	13/32		38.0	1.37	38.0	1.37
BL10-10RM90T	12	1/2		41.0	1.63	41.0	1.63
BL12-12RM90T	16	5/8		51.0	2.00	51.0	2.00

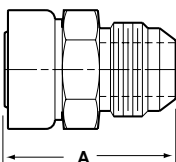
E-Z Miner™ Couplings HR Series

Style FJ Swivel Female 37° Flare



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR24-24FJ	40	1 1/2	1-7/8 12			54.1	2.13				
HR32-32FJ	50	2	2-1/2 12			64.8	2.55				

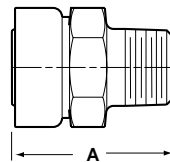
Style MJ Male 37° Flare



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR24-24MJ	40	1 1/2	1-7/8 12			47.8	1.88				
HR32-32MJ	50	2	2-1/2 12			56.4	2.22				

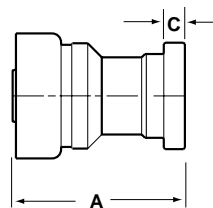
E-Z Miner™ Couplings HR Series

Style MP Male NPTF



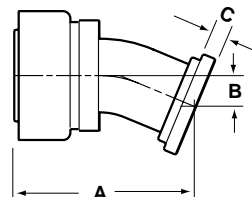
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR24-24MP	40	1 1/2	1-1/2 11-1/2			46.0	1.81				
HR32-32MP	50	2	2-11 1/2			48.8	1.92				

Style PA Flange - SAE Code 61



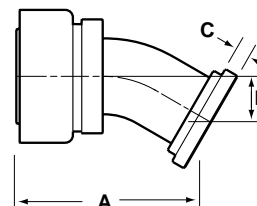
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR32-32PA	50	2				83.3	3.28	71.4	2.81	9.52	.375
HR32-40PA	50	2				81.5	3.21	84.1	3.31	9.53	.375
HR40-40PA	65	2 1/2				77.2	3.04	84.1	3.31	9.53	.375
HR40-48PA	65	2 1/2				77.2	3.04	101.6	4.00	9.53	.375
HR48-48PA	75	3				86.6	3.41	101.6	4.00	9.53	.375

Style PA22 22 1/2° Elbow Flange - SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR40-40PA22	65	2 1/2		15.7	.62	90.7	3.57	84.1	3.31	9.53	.375
HR40-48PA22	65	2 1/2		15.7	.62	85.9	3.38	101.6	4.00	9.53	.375
HR48-48PA22	75	3		19.3	.76	105.9	4.17	101.6	4.00	9.53	.375

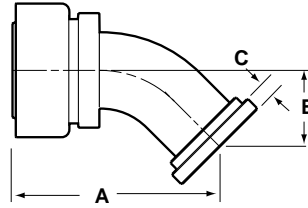
Style PA30 30° Elbow Flange - SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR40-40PA30	65	2 1/2		23.9	.94	98.6	3.88	84.1	3.31	9.53	.375
HR40-48PA30	65	2 1/2		23.9	.94	98.6	3.88	101.6	4.00	9.53	.375

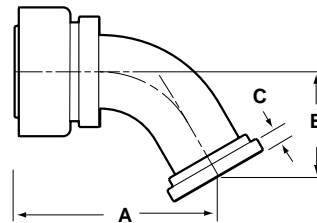
E-Z Miner™ Couplings HR Series

Style PA45 45° Elbow Flange - SAE Code 61



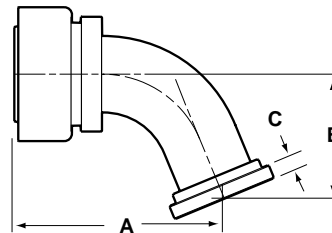
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR32-32PA45	50	2		50.8	2.00	110.0	4.33	71.4	2.81	9.52	.375
HR40-40PA45	65	2 1/2		43.7	1.72	116.1	4.57	84.1	3.31	9.53	.375
HR40-48PA45	65	2 1/2		45.0	1.77	116.1	4.57	101.6	4.00	9.53	.375
HR48-48PA45	75	3		53.1	2.09	147.1	5.79	101.6	4.00	9.53	.375

Style PA60 60° Elbow Flange - SAE Code 61



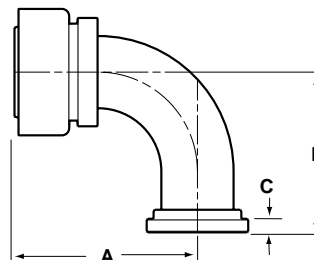
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR40-40PA60	65	2 1/2		66.5	2.62	126.5	4.98	84.1	3.31	9.53	.375
HR48-48PA60	75	3		81.0	3.19	159.8	6.29	101.6	4.00	9.53	.375

Style PA67 67 1/2° Elbow Flange - SAE Code 61



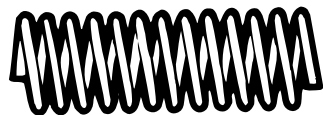
Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR40-40PA67	65	2 1/2		79.2	3.12	129.5	5.10	84.1	3.31	9.53	.375

Style PA90 90° Elbow Flange - SAE Code 61



Part Number	Hose I.D.		Thread Size	(B) Tube Drop		(A) Cut-Off		Flange O.D.		(C) Thickness	
	DN	Inch		MM	Inch	MM	Inch	MM	Inch	MM	Inch
HR32-24PA90	50	2		94.7	3.73	95.0	3.74	60.3	2.38	8.00	.315
HR32-32PA90	50	2		114.3	4.50	107.7	4.24	71.4	2.81	9.52	.375
HR32-40PA90	50	2		111.0	4.37	107.7	4.24	84.1	3.31	9.53	.375
HR40-40PA90	65	2 1/2		117.3	4.62	128.0	5.04	84.1	3.31	9.53	.375
HR40-48PA90	65	2 1/2		117.3	4.62	128.0	5.04	101.6	4.00	9.53	.375
HR48-48PA90	75	3		141.7	5.58	162.1	6.38	101.6	4.00	9.53	.375

Spring Guards



AVAILABLE IN 10' LENGTHS

Part Number	I.D.	Part Number	I.D.
1456-95	2.000	1463-95	2.859
1457-95	2.100	1464-95	3.125
1460-95	2.359		

AVAILABLE IN 25' LENGTHS

Part Number	I.D.	Part Number	I.D.
1440-95	.560	1451-95	1.375
1441-95	.625	1452-95	1.520
1442-95	.671	1453-95	1.578
1443-95	.750	1454-95	1.642
1444-95	.820	1455-95	1.890
1445-95	.906	1458-95	2.150
1446-95	.953	1459-95	2.250
1447-95	1.031	1462-95	2.750
1448-95	1.150	1465-95	.865
1449-95	1.234	1466-95	.700
1450-95	1.328	1469-95	.725

OPEN WOUND CONTINUOUS SPRING GUARD

	MMB	MMS	MMH
-4	1442-95		
-6	1444-95	1465-95	
-8	1446-95	1447-95	
-10	1448-95	1449-95	
-12	1449-95	1450-95	1450-95
-16	1453-95	1454-95	1453-95
-20	1456-95	1456-95	1455-95
-24	1459-95	1459-95	1460-95
-32	1462-95	1463-95	1463-95

Additional Spring Guards

Part Number	I.D.	Length Pattern
GO7	.438	20'
GO8	.500	20'
GO9	.685	20'
GO10	.675	25'
GO11	.738	25'
GO12	.785	25'
GO13	.852	20'
GO14	.915	20'
GO15	.977	25'
GO16	1.040	20'
GO17	1.109	25'
GO18	1.183	25'
GO19	1.278	20'
GO20	1.340	20'
GO24	1.600	20'
GO25	1.660	20'
GO32	2.110	20'
GO37	2.375	10'



FLAT ARMOR CONTINUOUS SPRING GUARD

	MMB	MMS	MMH
-4	1584-95		
-6	1562-95	1585-95	
-8	1564-95	1564-95	
-10	1566-95	1567-95	
-12	1567-95	1579-95	1579-95
-16	1569-95	1577-95	1569-95
-20	1570-95	1570-95	1578-95
-24	1581-95	1581-95	1572-95
-32	1580-95	1774-95	1574-95

AVAILABLE IN 10' LENGTHS

Part Number	I.D.	Part Number	I.D.
1573-95	3.062	1580-95	2.700
1574-95	2.906		

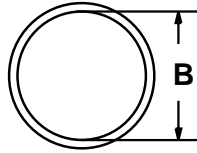
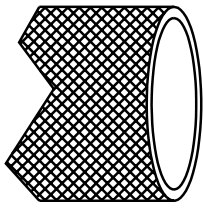
AVAILABLE IN 25' LENGTHS

Part Number	I.D.	Part Number	I.D.
1560-95	.547	1572-95	2.340
1561-95	.730	1575-95	.670
1562-95	.797	1576-95	2.125
1563-95	.812	1577-95	1.650
1565-95	1.015	1578-95	1.900
1566-95	1.140	1581-95	2.225
1567-95	1.230	1583-95	2.500
1568-95	1.300	1584-95	.630
1570-95	2.031	1595-95	.850
1571-95	.890		

Additional Spring Guards

Part Number	I.D.	Length Pattern
GA8	.500	20'
GA11	.656	25'
GA14	.812	25'
GA15	.875	20'
GA16	1.062	25'
GA18	1.125	20'
GA20	1.250	20'
GA22	1.375	20'
GA24	1.500	20'
GA26	1.625	20'
GA28	1.750	20'
GA32	2.000	10'
GA36	2.250	10'
GA49	3.062	10'

Cordura® and Nylogard™ Protective Sleeving



Applications: Ideal for abrasion protection or bundling small hose assemblies, tubing or wires.

Temperature Range: -60°F to +250°F

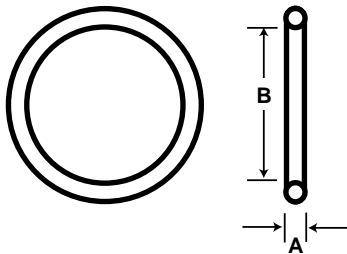
Material: Nylon

Available Lengths: 300 ft. coils

PART NUMBER	FLAT WIDTH (inches)	B DIAMETER (inches)
1776-12	1.12	0.71
1776-16	1.58	1.00
1776-20	1.97	1.25
1776-22	2.50	1.53
1776-24	2.56	1.59
1776-28	2.75	1.75
1776-32	3.25	2.07
1776-38	3.75	2.30
1776-40	4.00	2.54
NG2	1.50	0.93
NG3	1.88	1.13
NG4	2.13	1.22
NG8	3.00	1.81
NG9	3.50	2.19
NG15	5.13	3.12
NG16	5.50	3.38

BUNA-N O-RINGS

Buna-N O-Rings For Straight Thread Boss Couplings and Adapters



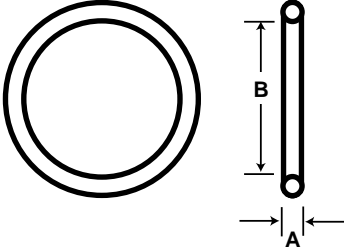
Resistant to gasoline, oil, grease and petroleum base hydraulic fluids.

For systems using fire resistant phosphate ester base hydraulic fluid, butyl o-rings are required. Add "B" to end of part number, i.e. 0-906B.

Durometer: Shore Hardness A90

PART NUMBER	TUBING O.D. (ref.)	THREAD SIZE	(A) THICKNESS		(B) I.D.	
			In.	MM	In.	MM
0-902	1/8	5/16-24	.07	1.8	.24	6.1
0-903	3/16	3/8-24	.07	1.8	.30	7.6
0-904	1/4	7/16-20	.07	1.8	.35	8.9
0-905	5/16	1/2-20	.07	1.8	.41	10.5
0-906	3/8	9/16-18	.08	2.0	.47	11.9
0-908	1/2	3/4-16	.09	2.2	.64	16.4
0-910	5/8	7/8-14	.10	2.5	.76	19.2
0-912	3/4	1-1/16-12	.12	3.0	.92	23.5
0-914	7/8	1-3/16-12	.12	3.0	1.05	26.6
0-916	1	1-5/16-12	.12	3.0	1.17	29.7
0-920	1-1/4	1-5/8-12	.12	3.0	1.47	37.5
0-924	1-1/2	1-7/8-12	.12	3.0	1.72	43.7
0-932	2	2-1/2-12	.12	3.0	2.34	59.4

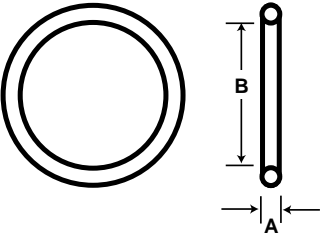
BUNA-N O-RINGS

Buna-N O-Rings For O-Ring Face Seals	PART NUMBER	THREAD SIZE	DASH SIZE	(A) THICKNESS		(B) I.D.	
				In.	MM	In.	MM
					O-104	9/16-18	-011
	O-106	11/16-16	-012	.07	1.8	.40	10.2
	O-108	13/16-16	-014	.07	1.8	.49	12.4
	O-110	1-14	-016	.07	1.8	.61	15.6
	O-112	1-3/16-12	-018	.07	1.8	.78	19.8
	O-116	1-7/16-12	-021	.07	1.8	.96	24.4
	O-120	1-11/16-12	-025	.07	1.8	1.18	29.9
	O-124	2-12	-029	.07	1.8	1.49	37.8

Resistant to gasoline, oil, grease and petroleum base hydraulic fluids.

For systems using fire resistant phosphate ester base hydraulic fluid, butyl o-rings are required. Add "B" to end of part number, i.e. O-906B.

Durometer: Shore Hardness A90

Buna-N O-Rings For Flange O-Ring Seals Code 61, Code 62 and Cat Style Flanges	PART NUMBER	FLANGE SIZE	DASH SIZE	(A) THICKNESS		(B) I.D.	
				In.	MM	In.	MM
					08PA-77	-08	-201
	10PA-77	-10	-212	.14	3.6	.86	21.8
	12PA-77	-12	-214	.14	3.6	.98	24.9
	16PA-77	-16	-219	.14	3.6	1.30	33.0
	20PA-77	-20	-222	.14	3.6	1.48	37.6
	24PA-77	-24	-225	.14	3.6	1.98	50.3
	32PA-77	-32	-228	.14	3.6	2.23	56.6

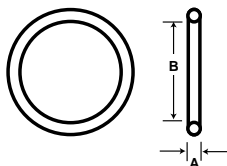
Resistant to gasoline, oil, grease and petroleum base hydraulic fluids.

For systems using fire resistant phosphate ester base hydraulic fluid, butyl o-rings are required. Add "B" to end of part number, i.e. O-906B.

Durometer: Shore Hardness A90

BUNA-N O-RINGS

Buna-N O-Rings For DIN Metric, Light Series



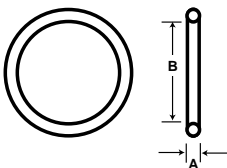
Resistant to gasoline, oil, grease and petroleum base hydraulic fluids.

For systems using fire resistant phosphate ester base hydraulic fluid, butyl o-rings are required. Add "B" to end of part number, i.e. 0-906B.

Durometer: Shore Hardness A90

PART NUMBER	THREAD SIZE	(A) THICKNESS		(B) I.D.		TUBE O.D. MM
		In.	MM	In.	MM	
06RO-77	M12 X 1.5	.06	1.5	.18	4.5	06
08RO-77	M14 X 1.5	.06	1.5	.26	6.5	08
10RO-77	M16 X 1.5	.06	1.5	.31	8.0	10
12RO-77	M18 X 1.5	.06	1.5	.39	10.0	12
15RO-77	M22 X 1.5	.08	2.0	.47	12.0	15
18RO-77	M26 X 1.5	.08	2.0	.59	15.0	18
22RO-77	M30 X 2.0	.08	2.0	.79	20.0	22
28RO-77	M36 X 2.0	.08	2.0	1.02	26.0	28

Buna-N O-Rings For DIN Metric, Heavy Series



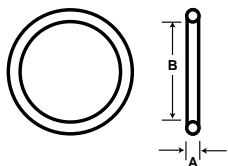
Resistant to gasoline, oil, grease and petroleum base hydraulic fluids.

For systems using fire resistant phosphate ester base hydraulic fluid, butyl o-rings are required. Add "B" to end of part number, i.e. 0-906B.

Durometer: Shore Hardness A90

PART NUMBER	THREAD SIZE	(A) THICKNESS		(B) I.D.		TUBE O.D. MM
		In.	MM	In.	MM	
08RO-77	M16 X 1.5	.06	1.5	.26	6.5	08
10RO-77	M18 X 1.5	.06	1.5	.31	8.0	10
12RO-77	M20 X 1.5	.06	1.5	.39	10.0	12
14RO-77	M22 X 1.5	.08	2.0	.43	11.0	14
16RO-77	M24 X 1.5	.08	2.0	.47	12.0	16
20RO-77	M30 X 2.0	.09	2.4	.64	16.3	20
25RO-77	M36 X 2.0	.09	2.4	.80	20.3	25
30RO-77	M42 X 2.0	.09	2.4	1.00	25.4	30
38RO-77	M52 X 2.0	.10	2.5	1.30	33.0	38

Buna-N O-Rings For Tube O-Ring A/C



Resistant to gasoline, oil, grease and petroleum base hydraulic fluids.

For systems using fire resistant phosphate ester base hydraulic fluid, butyl o-rings are required. Add "B" to end of part number, i.e. 0-906B.

Durometer: Shore Hardness A90

PART NUMBER	THREAD SIZE	(A) THICKNESS		(B) I.D.	
		In.	MM	In.	MM
O-6BL	5/8-18	.07	1.8	.30	7.7
O-8BL	3/4-16	.07	1.8	.43	10.8
O-10BL	7/8-16	.07	1.8	.55	14.0
O-12BL	1-1/16-14	.07	1.8	.68	17.5

NP 60

**IMPROVED—SUPERIOR
DESIGN FOR FASTER, MORE
TROUBLE-FREE CRIMPING**



ADVANCED CRIMPING CONTROL SYSTEM

- Crimp 1&2 wire hose through 1-1/2" I.D. & 4 spiral hose through 3/4" I.D. (or up to 1-1/4" I.D. 4 spiral hose with optional dies).
- Located at eye level for maximum convenience.
- Assure faster set-up and operation; in fact, it's one of the industries fastest!
- Simplified, user-friendly controls take the guess-work out of crimping. No special skills needed to assure "right-on settings".
- More accurate control of crimp diameter produces more reliable coupling retention.
- Eliminates the need for additional tooling purchases as new hoses and fittings become available.
- Back plate, with two 3/8" diameter extension pins, centrally locates the pusher plate. Pin height prevents pusher plate from accidentally ending up on top of the pins.
- The cone base has been opened up to accept step size couplings. (example: BW20-24PA90)
- Entire retainer ring is color-coded to speed die selection and set-up. No more searching for a small, grease-covered stamped number.
- Convenient built-in die storage shelves eliminate lost dies.
- Color-coded die selection guide is printed right on the machine for easy, mistake-free die selection.

MARKET COMPATIBLE CRIMPING SYSTEMS

NP60: Complete crimper with 6 sets of dies (2 piece die set). 115V 60 cycle single phase 1 HP

NP60A: Complete crimper with 6 sets of dies (1 piece die set). 115V 60 cycle single phase 1 HP

NP60N: Crimper with no dies. 115V 60 cycle single phase 1 HP

NP60G: Complete crimper with 6 sets of dies (2 piece die set). 230V 50 cycle single phase 1 HP

MORE ADDED VALUE FEATURES

New flexible arm light designed to brighten up the crimping area.

New crimp-stop: now it's easier to set your crimp lengths for production and normal crimping.

Die Sets	Diameter
EN82-008-01	2 pc. Die - .350 Orange (optional)
EN82-008-02	2 pc. Die - .520 Red
EN82-008-03	2 pc. Die - .670 Yellow
EN82-008-04	2 pc. Die - .830 Blue
EN82-008-05	2 pc. Die - 1.100 Green
EN82-008-06	2 pc. Die - 1.320 Black
EN82-008-07	2 pc. Die - 1.730 Silver
EN84-109-5	2 pc. Die - .600 White (optional)
EN84-109-1	2 pc. Die - 1.500 Brown (optional)
EN84-109-3	2 pc. Die - 1.850 White (optional)
EN84-109-2	2 pc. Die - 1.920 Violet (optional)
EN89-060-02	2 pc. Die - .320 (optional)
EN89-060-03	2 pc. Die - .380 (optional)
EN88-024-01	1 pc. Die - .350 Orange (optional)
EN88-024-02	1 pc. Die - .520 Red (optional)
EN88-024-03	1 pc. Die - .670 Yellow (optional)
EN88-024-04	1 pc. Die - .830 Blue (optional)
EN88-024-05	1 pc. Die - 1.100 Green (optional)
EN88-024-06	1 pc. Die - 1.320 Black (optional)
EN88-024-07	1 pc. Die - 1.500 Brown (optional)
EN88-024-08	1 pc. Die - 1.730 Silver (optional)
EN88-024-09	1 pc. Die - 1.820 Purple (optional)
EN88-024-10	1 pc. Die - .950 White (optional)
EN92-163-1	BL Die - .580 Triple Bubble (White) (optional)
EN92-163-2	BL Die - .850 Triple Bubble (White) (optional)

Field Support Equipment (Crimpers)

WB60

**SUPERIOR DESIGN FOR
FASTER, MORE TROUBLE-
FREE CRIMPING**

ADVANCED CRIMPING CONTROL SYSTEM TO 2" I.D.

- Crimp hose sizes up to 2" I.D. 4 spiral, and 1-1/2" I.D. 6 spiral.
- Easy to use crimp control settings, creating a more accurate control of crimp diameter for more reliable coupling retention.
- A book stand to hold crimp specification booklet.
- An attached light for better visibility.
- A crimp stop for more accurate crimp lengths.
- Entire retainer ring is color-coded to speed die selection and set-up.
- Color coded pusher plates:
 - Blue for small diameter
 - Yellow for large diameter
- Cone base insertion plate for small crimp sizes.
- Convenient built-in die storage shelves eliminate lost dies.



WB60 Crimper with 10 sets of Dies (2 pc. Dies),
115v 60 cycle 60Hz, 20 amp, 2HP

WB60G Crimper with 10 sets of Dies (2 pc. Dies),
230v 50Hz, single phase, 2HP

Power Source(s): 2HP, 110 Volt, 60Hz, 20 Ampere
(20 amp power required to crimp 1-1/2" and 2" hose) 60 ton cylinder with 6 inch stroke (pump included)

Dimensions: 43" wide x 35" deep x 38" high

Weight: 514 lbs.

Standard Die Sets	Diameter
EN82-008-02 (Red)	.520
EN82-008-03 (Yellow)	.670
EN82-008-04 (Blue)	.830
EN82-008-05 (Green)	1.100
EN82-008-06 (Black)	1.320
EN82-008-07 (Silver)	1.730
EN84-109-01 (Brown)	1.500
EN84-109-02 (Purple)	1.920
EN91-063-04 (Pink)	2.300
EN94-063-06 (White)	2.800

EC 30

TRULY PORTABLE WITH TIME-SAVING ADJUSTABLE CRIMP DIAMETERS

- Compact, lightweight, and it doesn't require electricity. Mount it on your service truck or cart and take it where the trouble is.
- Three power sources: 2 stage hand pump, shop air pump and electric pump.
- Eight sets of optional dies handle all your crimping needs, including 2-wire through 1-1/4" I.D. and 4-spiral through 1" I.D. You order just the dies you need.
- Entire retainer ring is color coded to each die by size to speed die selection and set-up and eliminate searching for a small, grease-covered number.
- Advanced spring-loaded die finger design won't stick—assures easier removal of finished assemblies.
- All steel dies for longer life.
- One pusher plate or spacer ring serves all eight die sets to reduce potential errors (competitive machines confuse you with as many as five).
- Aluminum die retainer ring eliminates lost die fingers. Assures more uniform crimp diameter by holding dies on an equal plane from start to finish.
- No rubber or molded urethane separators to fatigue and fall apart.

Die Sets	Diameter
EN82-008-01	2 pc. Die - .350 Orange (optional)
EN82-008-02	2 pc. Die - .520 Red
EN82-008-03	2 pc. Die - .670 Yellow
EN82-008-04	2 pc. Die - .830 Blue
EN82-008-05	2 pc. Die - 1.100 Green
EN82-008-06	2 pc. Die - 1.320 Black
EN82-008-07	2 pc. Die - 1.730 Silver
EN84-109-5	2 pc. Die - .600 White (optional)
EN84-109-1	2 pc. Die - 1.500 Brown (optional)
EN84-109-3	2 pc. Die - 1.850 White (optional)
EN84-109-2	2 pc. Die - 1.920 Violet (optional)
EN89-060-02	2 pc. Die - .320 (optional)
EN89-060-03	2 pc. Die - .380 (optional)
EN88-024-01	1 pc. Die - .350 Orange (optional)
EN88-024-02	1 pc. Die - .520 Red (optional)
EN88-024-03	1 pc. Die - .670 Yellow (optional)
EN88-024-04	1 pc. Die - .830 Blue (optional)
EN88-024-05	1 pc. Die - 1.100 Green (optional)
EN88-024-06	1 pc. Die - 1.320 Black (optional)
EN88-024-07	1 pc. Die - 1.500 Brown (optional)
EN88-024-08	1 pc. Die - 1.730 Silver (optional)
EN88-024-09	1 pc. Die - 1.820 Purple (optional)
EN88-024-10	1 pc. Die - .950 White (optional)
EN92-163-1	BL Die - .580 Triple Bubble (White) (optional)
EN92-163-2	BL Die - .850 Triple Bubble (White) (optional)



POWER SOURCES



EC30-22 Two Stage Hand Pump



EC30-23 Air Pump



EC30-24 Electro-Hydraulic Pump

Field Support Equipment (Crimpers)

NP100A

**THE MOST ECONOMICAL
PRODUCTION CRIMPER
ON THE MARKET TODAY**

- State-of-the-art electronic digital controls take the guesswork out of crimping.
- Color-coded die rings make die selection easy and helps prevent mistakes.
- Delivers 100 tons of crimping force, no need to double crimp 2" 6 spiral high pressure hoses.
- Two piece drop-in dies allow changeovers in a matter of seconds.
- Adjustable die closures allow each die to crimp a wide range of hoses.
- Die storage rack included.
- Adjustable depth stop makes the set-up time faster.
- The NP10 will crimp up to 700 cycles per hour.
- Best Performance — Best Buy



Power Source Options:	<u>Pump NP100A – 22</u> Max. pressure: 10,000 PSI	
Delivery:	1050 cubic in./min. @ 10,000 PSI 420 cubic in./min. @ 10,000 PSI 3 phase, 60Hz., 10HP, 34 amp 240 Volts @ 1725 RPM	
Weight:	506 lbs.	
Power Source Options:	<u>Pump NP100A – 25</u> Max. pressure: 10,000 PSI	
Delivery:	1050 cubic in./min. @ 1,200 PSI 420 cubic in./min. @ 10,000 PSI 220 Volt, 1 phase, 60Hz., 10HP, 40 amp @ 1725 RPM	
Weight:	506 lbs.	
Oil Type:	Power Team Hydraulic Oil	
Dimensions:	13" high x 15" wide x 36" deep Control Box dimensions: 20" wide x 16" high x 12" deep	
Weight:	680 lbs.	
Options:	Die Sets	Diameter
	EN85-050-02 (Red)	.520
	EN85-050-03 (Yellow)	.670
	EN85-050-04 (Blue)	.830
	EN85-050-05 (Green)	1.100
	EN85-050-06 (Black)	1.320
	EN85-050-07 (Brown)	1.500
	EN85-050-08 (Clear)	1.730
	EN85-050-09 (Purple)	1.920
	EN85-050-10 (Rose)	2.140
	EN85-050-11 (Gold)	2.500
	EN85-050-12 (white)	2.800

NP100 – 20 Foot Pedal

An option that permits hands-free operation of the NP100 model crimper.

Field Support Equipment (Crimpers)

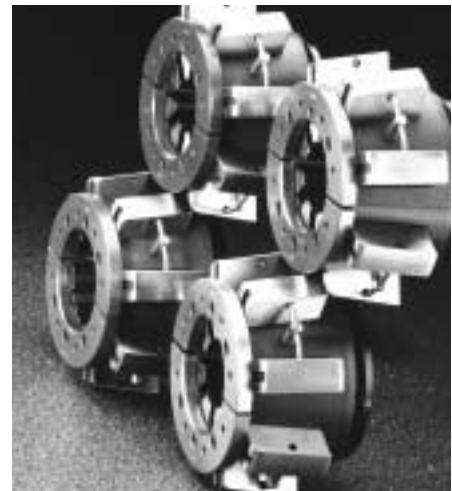
EZ 204A

*Production Speed, Custom Quality,
Trouble Free Crimping.*

- Versatile, reliable high speed performance, the E-Z Crimp 204A crimper combines easy operation with production capabilities.
- Delivers 50 tons of crimping force through any of ten standard die sets.
- Produces a full range of assemblies, 3/16" to 2" wire braid and four spiral, and up to 1 1/2" six spiral hose.
- Adjustable crimp diameter die closures provide accurate dimension control, improved coupling retention, reliability and blow-off prevention.
- Slide scale adjustment and drop-in dies provide quick and easy set-ups.
- Micro-switch control provides high level accuracy, and takes the guess work out of crimp lengths.



Superior Die Set Design Improves Performance



- Spring-Loaded die fingers won't stick - assure easier removal of finished assemblies.
- Steel construction eliminates broken and chipped die fingers.
- * Metal die retainer ring eliminates lost die fingers. Assures more uniform crimp diameter by holding dies on a equal plane from start to finish of the crimp cycle.
- No rubber or molded urethane die finger separators to fatigue and fall apart - metal die retainer rings last the lifetime of your crimper.
- Entire retainer ring is color-coded to speed die selection and set-up, no more searching for small, grease-covered stamped number

Tools & Accessories

SE135 Hose Cut-Off Saw

New bench mounted multiple gang hose cutter designed to cut thermoplastic and textile braid hoses up through 1" I.D.

Weight: 7 lbs.

SE136: Replacement Blade

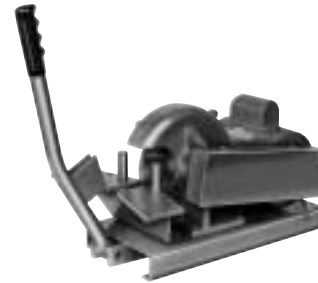


SE140 Hose Cut-Off Saw

The ideal light medium duty hose cut-off saw. It will cleanly cut single or double wire braid reinforced hose up to 1-1/4" I.D. as well as thermoplastic hoses. The 1 HP motor is usable in 115/230 volt, single phase, 60 cycle circuits.

Overall dimensions: 13" x 24" x 17"

Weight: 113 lbs.



SE145 and SE150 Heavy Duty Hose Cut-Off Saw

This saw will cleanly cut single or double wire braid and spiral reinforced hoses up to 2" I.D. as well as thermoplastic hoses. The 3 HP motor is available in single or three phase.

Overall dimensions: 22" x 42" x 24"

Specifications: SE145; 3 HP, 1 phase, 230 volt, 60 cycles, 214 lbs.
SE150; 3 HP, 3 phase, 230/460 volt, 60 cycles, 215 lbs.

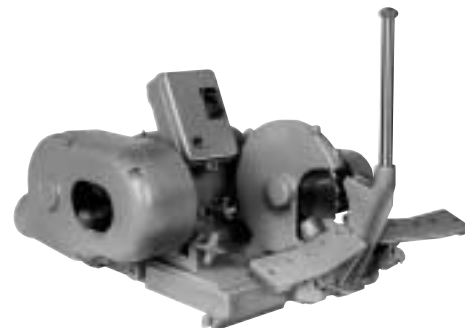


SE155 and SE160 Heavy Duty Hose Cut-Off Saw Skiver

This saw will cleanly cut single or double wire braid and spiral reinforced hoses up to 2" I.D. as well as thermoplastic hoses. In addition, all hoses up through 2" I.D. may be skived with this unit. The 3 HP motor is available in single or three phase.

Overall dimensions:

Specifications: SE155; 3 HP, Single phase, 230 volt, 60 cycles, 215 lbs.
SE160; 3 HP, 3 phase, 230/460 volt, 60 cycles, 215 lbs.



SE200 and SE 210 Hose Cut-Off Saw

Rugged hose cut-off saw that will handle the smallest to the 2" heavy 6 spiral hose easily and reliably. Ideally suited for production cutting where efficiency of operation and speed are essential.

Double chain, hold down L-vise with hand lock

Specifications: SE200; 3 HP, 3 phase, 220/460 volt, 60 Hz motor
SE210; 2 HP, Single phase, 220 volt, 60 Hz motor

Overall dimensions: 13"W x 28"L x 28"H

Weight: 150 lbs.

SE201: Blade (abrasive) – 11" diameter



SE165 and SE170 Saw Blade

Scalloped construction for better heat dissipation and a cleaner cut. These blades can be resharpened many times and can be reversed for twice the life.

Specifications: SE165; 7" diameter x 5/8" arbor for SE140
SE170; 10" diameter x 3/4" arbor for SE150, SE155 & SE160



SE175 and SE180 Saw Blade

Standard beveled edge blade made from high speed steel. Can be resharpened many times.

Specifications: SE175; 7" diameter x 5/8" arbor for SE140
SE180; 10" diameter x 3/4" arbor for SE145, SE150, and SE160



SE190 Skiving Brush

Replacement skiving brush for SE155 and SE160 for accurate skiving.



Tools & Accessories

SE195 Skiving Tool

Easy to use, accurate, skiving tool designed especially for spiral wire hose. Can be used on hose through 2" I.D.



SSK2 Internal Skiving Tool

Internal skiving tool for NH32 hose.



NEW! Dayco Hydraulic Bin Cabinets!

Dayco Products, Inc. is happy to announce the release of our new hydraulic fitting storage cabinet. Our new hydraulic cabinet consists of a blue custom six-drawer cabinet with our Dayco logo printed on both sides in white.

Each drawer is on rollers, which allows the user to roll out the complete drawer for easy lookup and access to all hydraulic couplings. The top 4 drawers contain 40 3-1/2" wide bins (10 per drawer) with one insert available per bin. The bottom two rows contain 10 7" wide bins (5 per drawer) with one insert available per bin. The part number for the cabinet and the 50 bins that are included is 201890. This is reflected in our price sheet.

The optional leg sets, both stationary and caster, must be ordered separately from the cabinet. This gives you the flexibility of choosing your own set up and paying only for the option you want.

Note: New Hydraulic Bin Label stickers are being printed and should be available in November.



Part No.	Description
201890	Custom 6-Drawer Hydraulic Cabinet (Bins Included)
201891	3 1/2" Wide Plastic Bin (10 per carton)
201892	7" Wide Plastic Bin (5 per carton)
201893	Plastic Inserts for Plastic Hydraulic Bins (needed) 50 pak
201896	Stationary Leg Set for Hydraulic Cabinet
201897	Heavy Duty Leg Set for Hydraulic Cabinet

 **WARNING**

Dayco's product are part of an engineered system which must be assembled and used in accordance with Dayco instructions and limitations.

Dayco hose, couplings and crimping machines are designed as an effective and reliable assembly system and the use of other than Dayco's product may produce hose assemblies that will not meet rated performance. Failure to follow Dayco instructions and limitations could lead to premature hose failures resulting in property damage, serious injury or death.

Dayco's limited warranty shall apply only if the customer uses hose, fittings, hose fitting components and crimp equipment specifically engineered, designed and produced to Dayco process specifications.

DAYCO DISCLAIMS ANY RESPONSIBILITY OR LIABILITY FOR ANY CRIMPED HOSE ASSEMBLIES NOT PRODUCED FROM GENUINE DAYCO HOSE FITTINGS, HOSE AND EQUIPMENT, IN CONFORMANCE WITH DAYCO PROCESS SPECIFICATIONS FOR EACH SPECIFIC HOSE ASSEMBLY.

DO NOT USE A DAYCO CRIMPING MACHINE WITHOUT DIES!