The Confidence Brand The reliability of our products is recognized all over the world.



OZAWA & CO.,LTD

OZC LEVER COUPLINGS

OZC Lever Coupling give fast, positive, leak-proof connections for hoses and pipes

OZC Lever Couplings are multi-purpose couplings which are serviceable to various field of industry, Petroleum, Chemistry, Steel, Machines, Food, Beverage, Shipping and so on. OZC Lever Couplings are manufactured to US-MIL specification (No. MIL-C-27487) and have passed severe and stringent inspection.

Our excellent quality provides the experience that ensures many years of reliable performance.

Thread _

Tapered pipe thread as standard specification (JIS B 0203)

We can manufacture many types of thread including NPT, BSPT, DIN etc.

Thick wall constructio

Precision machined to accurate tolerance.

Cam lever_

Unnecessary to use a tool, and easy and safety to operate.

Cam lever pin

Strong and durable stainless steel cam lever pin will not rust or bind for greater safety.

Designed for greater resistance to vibration more positive locking and added safety.

Gasket.

The standard gasket material is NITRILE RUBBER and provides a wide variety of both chemical and temperature resistance.

Compression prevents leakage of fluid. Please contact us for details on standard and special materials.

NUMBERRING SYSTEM MAKES ORDERING EASY

A • F • E − Adapter $D \cdot B \cdot C - Coupler$

DP • DC — Plug or Cap

AF • DF — Flanged Adapter or
Flanged Coupler

ASF Sanitary ferrule type

Materials

AL - Aluminum

ADC - Aluminum Die-cast

BC - Bronze

SST — Stainless Steel

PP - Polypropylene

1/2" to 8"

Miscellaneous OZC Lever Couplings

Flange type, weld neck type and couplings with valve. Also design modification are available for special requirement or condition.

Please contact with OZAWA.

Hose shank.

It's designed so that it is easy to insert in a hose and to fasten proper by a hose bands or clamps.



Push the small Buttons by - thumb and lift cam arm up





Size 1" ,1-1/2", 2" only

Aluminum, Stainless steel



Application

Hose Shank







Super PFA Seal ozawa Original goods

"Super PFA Seal" encapsulated whole of Fluorine rubber (FKM) core by Fluorine carbon polymer (PFA).





Available for wide temperature range (-20C ~180C) Available for chemical liquid and solvent. It's strong for distortion.

Below pictures is after connect and disconnect for 100 times



Press by adapter No distortion and deform

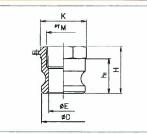


Conventional type



OZ-A ADAPTER FEMALE THREAD





1	н	h1	K	ΦЕ	ФD	M	ZE	SI.
	п	13.1	I.	ΨΕ	Ψυ	IVI	inch	mm
	40	26	33	14	32	1/2"	1/2	15
	40	26	33	21	32	3/4"	3/4	20
	49	34	38	24	37	1"	1	25
	54	40	48	28	45	1-1/4"	1-1/4	32
	56	41	55	36	53	1-1/2"	1-1/2	40
	62	48	72	45	63	2"	2	50
	85	49	85	56	76	2-1/2"	2-1/2	65
	70	51	96	72	92	3"	3	80
	78	53	127	97	120 .	4"	4	100
	79	-55	Ф154	122	146	5"	5	125
	86	60	Ф185	150	176	6"	- 6	150
	111	83	Ф246	204	241	8"	8	200

- Designed to be serviceable for pipe with male thread or nipple with male thread for hose.
- Please use dust cap in order to prevent abrasion and provide all inside surface with complete protection from dust, dirt or other foreign matter.

OZ-F ADAPTER MALE THREAD





SI	ZE	М	ФD	ФЕ	К	L1		
nım	inch	IVI	Ψυ	ΨE	E K h1		H	
15	1/2	1/2"	32	14	33	26	60	
20	3/4	3/4"	32	21	33	26	60	
25	1	1"	37	24	38	34	71	
32	1-1/4	1-1/4"	45	28	48	40	78	
40	1-1/2	1-1/2"	53	36	55	41	79	_
50	2	2"	63	45	65	48	88	
65	2-1/2	2-1/2"	76	56	82	49	99	
80	3	3"	92	72	96	51	102	
100	4	4"	120	97	127	53	114	
125	5	5"	146	121	Ф154	55	122	
150	6	6"	176	150	Ф185	60	129	

- Designed to be serviceable for pipe with female thread or socket.
- Please use dust cap in order to prevent abrasion and provide all inside surface with complete protection from dust, dirt or other foreign matter.

OZ-E ADAPTER HOSE SHANK



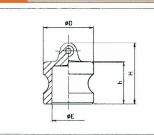


٦١.	4C	M	ΦD	ΦF	ΦF1	ΦG	Ф1	h1	h2	Н
mm	inch	IVI	Ψυ	ΨΓ	ΦFI	Ψ	Ψί	11 1	11 2	п
20	3/4	3/4"	32	21	14	19	21	27	51	89
25	1	1"	37	24	20	25	27	34	60	104
32	1-1/4	1-1/4"	45	29	25	32	34	40	64	115
40	1-1/2	1-1/2"	53	35	32	38	40	43	66	119
50	2	2"	63	45	43	50	53	46	77	135
65	2-1/2	2-1/2"	76	56	56	67	67	50	94	159
80	3	3"	92	68	68	79	79	52	103	170
100	4	4"	120	97	92	105	105	55	112	183
125	5	5"	146	121	117	130	130	55	127	200
150	6	6"	176	147	142	155	155	60	142	221
200	8	8"	241	204	186	208	208	85	170	278

- This is designed with shank end which can be attached directly to uncoupled rubber hose or vinyl chloride hose with any type clamps or bands.
- Please use dust cap in order to prevent abrasion and provide all inside surface with complete protection from dust, dirt or other foreign matter.
- The hose barbs styles are subject to body material and size.

OZ-DP ADAPTER DUST PLUG





		h	A F	00	М	ZE	SI
	Н	n	ФЕ	ФО	IVI	inch	mm
	34	23	21	32	3/4"	3/4	20
	44	31	24	37	1"	1	25
	52	38	28	45	1-1/4"	1-1/4	32
	56	39	36	53	1-1/2"	1-1/2	40
	63	43	45	63	2"	2	50
	65	47	56	76	2-1/2"	2-1/2	65
	68	48	72	92	3"	3	80
	72	50	97	120	4"	4	100
	86	53	123	146	5"	5	125
	95	60	150	176	6"	6	150
	120	83	204	241	8"	8	200

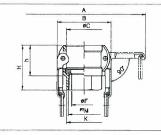
- Designed for couplers Type "OZ-D, OZ-C, OZ-B"
- This is used to protected female coupler from dust.
- Please use it without internal pressure.
- Size 1/2" and 3/4" are common dust plug.

Available NPT thread, Standard thread type is BSP

Drawings and dimensions are Stainless steel couping as reference. Please request us the detail drawings if you need.

COUPLER FEMALE THREAD



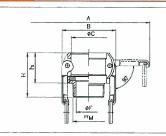


SI.	ZE	М	A	В	ФС	ФЕ	К	h	н	
mm	inch	7	^	0	Ψ	ΨΙ	K	, tu	п	9134
15	1/2	1/2"	115	53	32	16	32	32	51	
20	3/4	3/4"	115	53	32	21	32	32	51	
25	1	1"	137	61	37	26	38	39	60	
32	1-1/4	1-1/4"	183	77	46	33	48	46	66	
40	1-1/2	1-1/2"	191	84	54	38	54	47	69	
50	2	2"	201	94	64	50	64	52	78	
65	2-1/2	2-1/2"	213	108	76	60	82	58	84	
80	3	3"	267	132	92	75	96	59	87	
100	4	4"	296	164	120	95	124	61	95	
125	5	5"	322	191	146	117	Ф151	65	101	
150	6	G"	454	238	177	142	Ф185	70	115	

- Designed to be serviceable for pipe with male thread or nipple with male thread UNIT: mm for hose.
- Please use dust plug in order to prevent dust, dirt or other foreign matter.

OZ-B **COUPLER MALE THREAD**



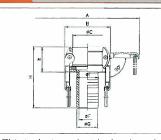


SI	ZE	14		В	DC.	ФГ		11	
mm	inch	М	Α	В	ФС	ФЕ	h	Н	
15	1/2	1/2"	115	53	32	14	32	52	
20	3/4	3/4"	115	53	32	19	32	51	
25	1	1"	137	61	37	25	39	61	
32	1-1/4	1-1/4"	183	77	46	31	46	70	
40	1-1/2	1-1/2"	191	84	54	37	47	70	
50	2	2"	201	94	64	50	52	78	
65	2-1/2	2-1/2"	213	108	76	60	58	88	
80	3	3"	267	132	92	75	59	91	
100	4	4"	296	164	120	96	63	99	

- UNIT: mm
- Designed to be serviceable for pipe with female thread or socket.
- Please use dust plug in order to prevent dust, dirt or other foreign matter.
 There is only 2" size at the case of Bronze couplings

OZ-C COUPLER HOSE SHANK





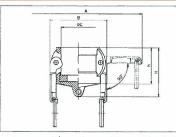
SI	ZE	4.4	A	В	ΦC.	ФЕ	D.C.	d)		1000
mm	inch	М	Α	В	ФС	ФЕ	ΦG	ФІ	h	Н
20	3/4	3/4"	115	53	32	13	19	21	32	83
25	_ 1	1"	137	61	37	19	25	27	39	100
32	1-1/4	1-1/4"	183	_77	46	26	32	34	46	109
40	1-1/2	1-1/2"	191	84	54	31	38	41	47	113
50	2	2"	201	94	64	44	50	53	52	139
65	2-1/2	2-1/2"	213	108	76	56	63	67	56	142
80	3	3"	267	132	92	68	75	79	59	161
100	4	4°	296	164	120	92	101	105	61	171
125	5	5°	322	191	146	117	127	130	65	192
150	6	6"	454	238	177	142	152	155	70	213
200	8	8"	519	315	242	186	204	208	101	271
					-				UN	

- This is designed with shank end which can be attached directly to uncoupled rubber hose or vinyl chloride hose with any type clamps or bands.

 • Please use dust plug in order to prevent dust, dirt or other foreign matter.
- The hose barbs styles are subject to body material and size.

OZ-DC COUPLER DUST CAP





SI	ZE	М	Α	В	ФС	h	н		10
mm	inch	IVI	^	D	Ψ	h	п		
20	3/4	3/4"	115	53	32	32	42		
25	1	1"	137	61	37	39	51		
32	1-1/4	1-1/4"	183	77	46	46	60		
40	1-1/2	1-1/2"	191	84	54	47	60	1	
50	2	2"	201	94	64	52	65		
65	2-1/2	2-1/2"	213	108	76	58	76		
80	3	3"	267	132	92	59	79	T	
100	4	4"	296	164	120	61	85	1	
125	5	5"	322	191	146	65	95		
150	6	6"	454	238	177	70	103		
							L	 LIK	IIT · mi

- Designed for adapter Type "OZ-A, OZ-F, OZ-E"
 This is used to protected male adapter from dust, dirt or other foreign matter.
- Please use it without internal pressure.
- Size 1/2" and 3/4" are common dust cap.

MISCELLANEOUS OZC LEVER COUPLING

Flange Type

• Flange standard is JIS10K as stock products, Available ANSI or API standard flanges.





Sanitary Type

· Sanitary type is IDF standard ferrule.



PFA LINING COUPLING

- The inside of Couplings are lined with PFA.
- The liquid does not touch the metal material.
- Recommended for Chemical, food and Semiconductor factory.





Adapter with Ball Valve

- Standard thread is BSP, Available NPT.
- We have succeeded to minimize cost and weight by manufacturing an integral valve and adapter in one body.
- Save the time to set an adapter and improved working efficiency.



Poly Ball Valve







Nozzle

REPLACEMENT PARTS

GASKET



GASKET NAME	RECOMMENDED TEMPERATURE
NITRILE RUBBER (Standard)	-30°C (-22F) ~+70°C (158F)
WHITE NEOPRENE	-30°C (-22F) ∼+60°C (140F)
FLUORO RUBBER (FKM)	-20°C (-4F) ~+180°C (356F)
ETHYLENE PROPYLENE RUBBER	-30°C (-22F) ~+110°C (230F)
PTFE	-20°C (-4F) ∼+100°C (212F)
SUPER PFA SEAL Please see P2	-20°C (-4F) ∼+180°C (356F)

LEVER LOCK

- The Lever Lock prevent that cam-lever might be opened suddenly.
- It's easy to able to fit with cam-lever.
- Recommended for place of vibration.



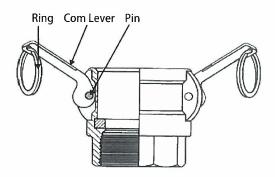
Instructions

Material of body and Gasket

Please choose the coupler, adapter and gasket depending on your liquid, pressure temperature and application.

Caution for Cam Lever and pin

- The Cam Lever may be corroded by liquid, as it is made by sintered stainless steel.
- Do not strike cam levers with hammer when locking the cam levers.
- Please press them with normal hand pressure.
- Beware of placing your fingers between the lever and body as this is a hazard and may cause injury
- Please pay attention to damage on cam lever and adapter in case of high frequency attach or remove.
- The cam lever may open or may loosen pin up suddenly due to vibration.



Caution for handling

- Please screw the thead type coupling by appropriate torque.
- Please wear work gloves or safety shoes occasion for operation.
 - Do not touch with wet hands.
- •Please pay attention for the whole weight when bronze or stainless steel couplings would be put with hoses.
- Do not drag a hose with couplings.
 The cam lever may be opened suddenly.
 When moving, please support not only the hose but also the coupling.
- Do not load at connection point between male adapter and female coupler.
- Please use The Double Lock or The Lever Lock as optional part in case of vibration or female coupler join downward.
- Do not touch the couplings when use for steam or hot liquid.
- Please confirm surely the pressure in the couplings is removed when disconnecting.
- Please change the gasket for periodically.
 Life of gasket differ from condition of usage.
- There may be damage on Polypropylene adapter more than metal adapter by cam lever
- Caution for electric erosion/galvanic action in case of connecting with different kind metal material.

Aluminum coupling may be corroded by electric erosion /galvanic action.

Technical Data

Working pressure as reference

Size	1/2 2 2 1/2		3 4				5		6	8				
Material Unit	Мра	kgf/cm²	Мра	kgf/cm ²	Мра	kgf/cm²	Мра	kgf/cm ²	Мра	kgf/cm²	Мра	kgf/cm²	Мра	kgf/cm ²
Aluminum	1.76	18	1.08	11	0.88	9	0.69	7	0.49	5	0.49	5	0.39	4
Bronze	1.76	18	1.08	11	0.88	9	0.69	7	0.49	5	0.49	5	-	-
Stainless Steel	1.76	18	1.57	16	1.37	14	1.08	11	0.69	7	0.69	7	0.49	5
Polypropylene	0.69	7	-	-	0.39	4	-	-	-	-	-	-	-	-

The case of Ordinary temperature and NITRILE RUBBER gasket

Maximum screwed torque

Material Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
Aluminum	450	550	800	1300	1500	2700	3600	4200	4700	6000	6000	7200
Bronze	450	550	800	1300	1500	2700	3600	4200	4700	6000	6000	7200
Stainless Steel	700	1100	1400	2100	2700	3600	4200	4800	6000	7500	7500	9000

Unit: kgf-cm



OZAWA & CO.,LTD Machinery division

Homepage http://www.ozawabussan.co.jp

☆Please do not hesitate to contact us if we can be of any assistance.

Agency