

# KAMLOK® AUTOLOK™

**QUICK COUPLER SYSTEMS** 



## KAMLOK® Twin-Kam™ Quick Couplings

OPW Kamlok® quick-disconnect couplings are the industry standard in cam and groove couplers for safety and ease of use.

All OPW Kamlok® couplers feature the exclusive Twin-Kam™ arm design to help prevent unintentional arm release as well as Spring-Ring™ to ensure proper positioning of finger-rings for ease of operation.





#### **Features and Benefits**

- The Only Original
- Long-life reliability specifically designed and manufactured with the highest alloys and gasket materials to endure the harshest environments
- Twin-Kam<sup>™</sup> arms, prevent unintentional arm release beyond 45°
- Added protection, Twin-Kam™ arm special detent secure arms in position to prevent accidental uncoupling
- **GFL™** Guaranteed For Life cam arms
- Cam and Groove design provides reliable smooth operation in 360° orientation
- Ease of use Cam and Groove design offers smooth coupling and uncoupling

- Resistant to vibrations
- Spring-Ring™ finger-rings, rings will not get trapped under the arms so opening and closing is quick and easy
- Heavy-duty construction
- Available in Aluminium; Bronze; Polypropylene and 316 Stainless Steel
- Arm pins standard in corrosion resistant stainless steel
- Best value, built to the highest quality standards with unique ease of use and safety features makes OPW Kamlok® the best overall value in the market

#### **Specifications**

#### ARM LOCKED

With one arm locked down firmly and the other arm in the unique 45° detent position, adaptor remains secure in coupler.

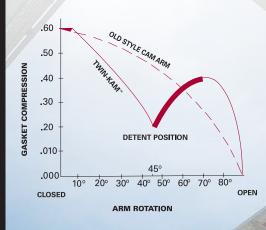
#### ONE ARM FULLY RELEASED

with one arm fully released and the other arm in the detent position, slight leakage may occur at full pressure.

#### **BOTH ARMS RELEASED**

with both arms in the detent position the adaptor remains secure in coupler.

The line pressure increases resistance to open arms beyond this point, in fact it pushes the cam arms to close again.





# KAMLOK® standard configuration

633ABS Adaptor (BSPP) 633A (NPT)



633DBS Coupler (BSPP) 633D (NPT)



**633ABSF Adaptor (BSPP)** with Thread Gasket (DIN2828)



**633DBSF Coupler (BSPP)** with Thread Gasket (DIN2828)



633FB Adaptor (BSPT) 633F (NPT)



633BB Coupler (BSPT) 633B (NPT)



SS

- finger rings are standard on sizes from 25mm / 1 inch and up
- DIN SS Kamlok® equipped with finger rings on all sizes

AL = aluminium BR = bronze SS = 316 Stainless Steel PP = polypropylene

Inch   1/2   3/4   1   1/4   1/2   2   2/2   3   4   5   6   8	PP =	polyp	ropyle	ene									
AL	mm	15	20	25	32	40	50	65	80	100	125	150	200
BR	inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
SS	AL	•	•	•	•	•	•	•	•	•	•	•	•
mm 15 20 25 32 40 50 65 80 100 125 150 200 inch 1/2 3/4 1 11/4 11/2 2 21/2 3 4 5 6 8 8 8	BR	•	•	•	•	•	•	•	•	•	•	•	•
mm 15 20 25 32 40 50 65 80 100 125 150 200  Inch 1/2 3/4 1 1 1/4 1/2 2 2/2 3 4 5 6 8  AL	SS	•	•	•	•	•	•	•	•	•	-	-	-
inch         1/2         3/4         1         1/4         1/2         2         2/2         3         4         5         6         8           AL         •	PP	-	•	•	-	•	•	-	•	-	-	-	-
inch         1/2         3/4         1         1/4         1/2         2         2/2         3         4         5         6         8           AL         •													
AL	mm	15	20	25	32	40	50	65	80	100	125	150	200
BR	inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
SS	AL	•	•	•	•	•	•	•	•	•	•	•	•
mm 15 20 25 32 40 50 65 80 100 125 150 200 inch 1/2 3/4 1 11/4 11/2 2 21/2 3 4 5 6 8 8 100 125 150 200 125 150 200 125 150 12	BR	•	•	•	•	•	•	•	•	•	•	•	•
mm 15 20 25 32 40 50 65 80 100 125 150 200 10ch 1/2 3/4 1 11/4 11/2 2 21/2 3 4 5 6 8 8 AL	SS	•	•	•	•	•	•	•	•	•	-	-	-
Inch         1/2         3/a         1         11/a         11/2         2         21/2         3         4         5         6         8           AL         -	PP	-	•	•	-	-	•	-	•	-	-	-	-
Inch         1/2         3/a         1         11/a         11/2         2         21/2         3         4         5         6         8           AL         -													
AL	mm	15		25	32	40	50	65	80	100	125	150	200
BR	inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
SS -	AL	-	-	-	-	-	-	-	-	-	-	-	-
mm         15         20         25         32         40         50         65         80         100         125         150         200           inch         1/2         3/4         1         11/4         11/2         2         21/2         3         4         5         6         8           AL         -	BR	-	-	-	-	-	-	-	-	-	-	-	-
mm	SS	-	•	•	•	•	•	-	•	-	-	-	-
inch         1/2         3/4         1         1/4         1/2         2         2/2         3         4         5         6         8           AL         -	PP	-	-	-	-	-	-	-	-	-	-	-	-
inch         1/2         3/4         1         1/4         1/2         2         2/2         3         4         5         6         8           AL         -			I	I	1	I	ı	ı					
AL													200
BR													
SS -													
mm       15       20       25       32       40       50       65       80       100       125       150       200         inch       1/2       3/4       1       11/4       11/2       2       21/2       3       4       5       6       8         AL       • <th></th>													
mm         15         20         25         32         40         50         65         80         100         125         150         200           inch         1/2         3/4         1         11/4         11/2         2         21/2         3         4         5         6         8           AL         •			•	•	•	•	•		•	-			-
inch       1/2       3/4       1       11/4       11/2       2       21/2       3       4       5       6       8         AL       •	PP		_	_	_	_	_	_	_	_	_	_	_
inch       1/2       3/4       1       11/4       11/2       2       21/2       3       4       5       6       8         AL       •	mm	15	20	25	22	40	50	65	80	100	125	150	200
AL       •													
BR • • • • • • • • • • • • • • • • • • •													
SS													_
mm         15         20         25         32         40         50         65         80         100         125         150         200           inch         1/2         3/4         1         11/4         11/2         2         21/2         3         4         5         6         8           AL         •         •         •         •         •         •         •         •         •         •		•	•	•	•	•	•	•	•	•	-	-	-
inch 1/2 3/4 1 11/4 11/2 2 21/2 3 4 5 6 8  AL • • • • • • • • • • • • • • • • • • •		-	•	•			•		•	-	-	-	_
inch 1/2 3/4 1 11/4 11/2 2 21/2 3 4 5 6 8  AL • • • • • • • • • • • • • • • • • • •													
inch 1/2 3/4 1 11/4 11/2 2 21/2 3 4 5 6 8  AL • • • • • • • • • • • • • • • • • • •	mm	15	20	25	32	40	50	65	80	100	125	150	200
		1/2	3/4		11/4	11/2	2	21/2	3	4		6	8
BR • • • • • • • • • • • • • • -	AL	•	•	•	•	•	•	•	•	•	•	•	-
	BR	•	•	•	•	•	•	•	•	•	•	•	-

#### 633E Adaptor



#### 633C Coupler



#### 633EC Adaptor

with hose shank to VG-85328-3 for use with reusable hoseclamps to DIN2817



#### 633CC Coupler

with hose shank to VG-85328-3 for use with reusable hoseclamps to DIN2817



#### 634A Plug



#### 634B Cap



## **634BK Cap** with messing cam arms lockable



mm	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
AL	-	•	•	•	•	•	•	•	•	•	•	-
BR	-	•	•	•	•	•	•	•	•	•	•	-
SS	-	•	•	•	•	•	•	•	•	-	-	-
PP	-	•	•	-	•	•	-	•	-	-	-	-

mm	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
AL	-	•	•	•	•	•	•	•	•	•	•	-
BR	-	•	•	•	•	•	•	•	•	•	•	-
SS	-	•	•	•	•	•	•	•	•	-	-	-
PP	-	•	•	-	•	•	-	•	-	-	-	-

mm	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
AL	-	-	-	-	-	-	-	-	-	-	-	-
BR	-	-	-	-	-	-	-	-	-	-	-	-
SS	-	-	•	-	•	•	-	•	-	-	-	-
PP	-	-	-	-	-	-	-	-	-	-	-	-

mm	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
AL	-	-	-	-	-	-	-	-	-	-	-	-
BR	-	-	-	-	-	-	-	-	-	-	-	-
SS	-	-	•	-	•	•	-	•	-	-	-	-
PP	-	-	-	-	-	-	-	-	-	-	-	-

mm	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
AL	•	•	•	•	•	•	•	•	•	•	•	•
BR	•	•	•	•	•	•	•	•	•	•	•	•
SS	•	•	•	•	•	•	•	•	•	-	-	-
PP	-	-	•	-	•	•	-	•	-	-	-	-

mm	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
AL	•	•	•	•	•	•	•	•	•	•	•	•
BR	•	•	•	•	•	•	•	•	•	•	•	•
SS	•	•	•	•	•	•	•	•	•	-	-	-
PP	-	-	•	-	•	•	-	•	-	-	-	-

mm	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8
AL	-	-	-	-	•	•	•	•	•	-	-	-
BR	-	-	-	-	•	•	•	•	•	-	-	-
SS	-	-	-	-	•	•	•	•	•	-	-	-
PP	-	-	-	-	•	•	-	•	-	-	-	-

 $\bullet$  finger rings are standard on sizes from 25mm / 1 inch and up

AL = aluminium

BR = bronze

SS = 316 Stainless Steel

**PP** = polypropylene

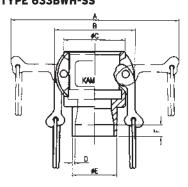
mm	inch	A	В	ØC	D	ØE	F				
15	0.50	116	54	41	1.6	21.3	7				
20	0.75	116	54	41	1.6	26.9	7				
25	1	125	61	47	2.0	33.7	7				
32	1.25	181	83	58	2.0	42.4	7				
40	1.50	189									
50	2	199									
65	2.50	210									
80	3	254	138	108	2.3	88.9	10				
100	4	282	166	140	2.6	114.3	12				
125	5										
150	6	-	-	-	-	-	-				
200	8	-	-	-	-	-	-				
Stainless Ste	eel Only			Dimensio	ns in mm						

mm	inch	D1	S	D2	L	A
15	0.50	21.3	1.6	32.1	57	7
20	0.75	26.9	1.6	32.1	57	7
25	1	33.7	2.0	36.7	71	7
32	1.25	42.4	2.0	45.5	75	7
40	1.50	48.3	2.0	53.4	78	7
50	2	60.3	2.0	63.0	90	8
65	2.50	76.1	2.3	75.8	101	10
80	3	88.9	2.3	91.5	103	10
100	4	114.3	2.6	119.5	117	12
125	5	-	-	-	-	-
150	6	-	-	-	-	-
200	8	-	-	-	-	-
Stainless St	eel Only		<b>◀</b> D	imensions in m	m 🕨	

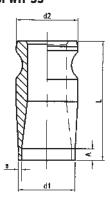
mm	inch	A	В	ØС	D	ØE
15	0.50	116	54	41	2.3	21.3
20	0.75	116	54	41	2.3	26.9
25	1	125	61	47	2.6	33.7
32	1.25	181	83	58	2.6	42.4
40	1.50	189	91	65	2.6	48.3
50	2	199	101	75	2.9	60.3
65	2.50	210	112	90	2.9	76.1
80	3	254	138	108	3.2	88.9
100	4	282	166	140	3.6	114.3
125	5	-	-	-	-	-
150	6	-	-	-	-	-
200	8	-	-	-	-	-
Stainless Ste	eel Only		<b>⋖</b> Din	nensions in mm	<b>&gt;</b>	

mm	inch	ØH	Li	L2	Α	В
15	0.50	32.1	59	30	2.3	21.3
20	0.75	32.1	59	30	2.3	26.9
25	1	36.7	72	35	2.6	33.7
32	1.25	45.5	80	40	2.6	42.4
40	1.50	53.4	79	42	2.6	48.3
50	2	63	94	48	2.9	60.3
65	2.50	75.8	102	50	2.9	76.1
80	3	91.5	103	52	3.2	88.9
100	4	119.5	119	53	3.6	114.3
125	5	-	-	-	-	-
150	6	-	-	-	-	-
200	8	-	-	-	-	-
Stainless Ste	eel Only		<b>◀</b> D	imensions in m	m 🕨	

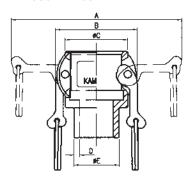
## SS BUTT-WELD KAMLOK® COUPLER TYPE 633BWH-SS



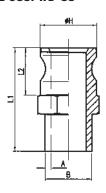
## SS BUTT-WELD KAMLOK® ADAPTOR TYPE 633FWH-SS



## SS BUTT-WELD DIN2828 KAMLOK® COUPLER TYPE 633BWD-SS



## SS BUTT-WELD DIN2828 KAMLOK® ADAPTOR TYPE 633FWD-SS



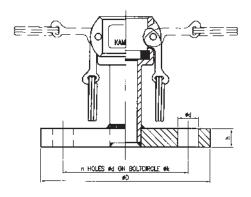
mm	inch	Øk	ØD	h	n	Ød			
15	0.50	65	95	14	4	14			
20	0.75	75	105	105 16		14			
25	1	85	115 16		4	14			
32	1.25	100	140 16		4	18			
40	1.50	110	150 16		4	18			
50	2	125	165	18	4	18			
65	2.50	145	185	18	4	18			
80	3	160	200	20	8	18			
100	4	180	220	20	8	19			
125	-	-	-	-	-	-			
150	-	-	-	-	-	-			
200	-	-	-	-	-	-			
Stainless Ste	eel Only	✓ Dimensions in mm							

mm	inch	Øk	ØD	h	n	Ød
15	0.50	65	95	14	4	14
20	0.75	75	105	16	4	14
25	1	85	115	16	4	14
32	1.25	100	140	16	4	18
40	1.50	110	150	16	4	18
50	2	125	165	18	4	18
65	2.50	145	185	185 18		18
80	3	160	200	20	8	18
100	4	180	220	20	8	19
125	-	-	-	-	-	-
150	-	-	-	-	-	-
200	-	-	-	-	-	-
Stainless St	eel Only		<b>∢</b> Di	mensions in m	ım 🕨	

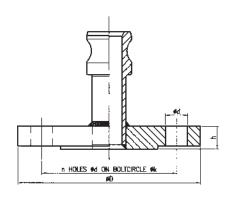
mm	inch	Øk	ØD	h	n	Ød
15	0.50	60.5	88.9	11.2	4	15.7
20	0.75	69.9	98.6	12.7	4	15.7
25	1	79.2	108.0	108.0 14.2		15.7
32	1.25	88.9	117.3	15.7	4	15.7
40	1.50	98.6	127.0	127.0 17.5		15.7
50	2	102.7	152.4	19.1	4	19.1
65	2.50	-	-	-	-	-
80	3	152.4	190.5	20.6	4	19.1
100	4	190.5	228.6	23.9	8	19.1
125	-	-	-	-	-	-
150	-	-	-	-	-	-
200	-	-	-	-	-	-
Stainless St	eel Only		<b>⋖</b> Di	mensions in m	ım 🕨	

mm	inch	Øk	ØD	h	n	Ød			
15	0.50	60.5	88.9	11.2	4	15.7			
20	0.75	69.9	98.6	12.7	4	15.7			
25	1	79.2	108.0 14.2		4	15.7			
32	1.25	88.9	117.3 15.7		4	15.7			
40	1.50	98.6	127.0	17.5	4	15.7			
50	2	102.7	152.4 19.1		4	19.1			
65	2.50	-	-	-	-	-			
80	3	152.4	190.5 20.6		4	19.1			
100	4	190.5	228.6	23.9	8	19.1			
125	-	-	-	-					
150	-	-	-	-	-	-			
200	-	-	-	-	-	-			
Stainless Ste	eel Only		✓ Dimensions in mm						
125 150 200	- - -		- - -	-	- - -				

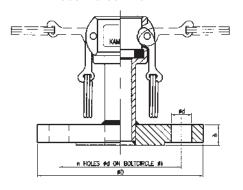
## DIN PN 10/16 FLANGED SS KAMLOK® COUPLER TYPE 633LBS-SS DIN (PN 25 on request)



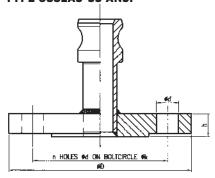
## DIN PN 10/16 FLANGED SS KAMLOK® ADAPTOR TYPE 633LAS-SS DIN (PN 25 on request)



## 150 lbs Ansi Flanged SS KAMLOK® COUPLER TYPE 633LBS-SS ANSI



150 lbs ansi flanged ss **KAMLOK**® Adaptor type 633LAS-SS ansi



## **AUTOLOK™** self locking Quick Couplings

Autolok<sup>TM</sup> by OPW represents the most significant development in quick-disconnect cam and groove coupling design. It utilizes a patented locking arm design that ensures the arms are locked automatically when closed. Opening is a simple matter of tugging the finger rings<sup>TM</sup>, eliminating the use of clips, pins or buttons.

If operator safety and fluid integrity are important to your business: specify authentic OPW AUTOLOK $^{\text{TM}}$  quick couplings, recognized as the industry's safest and sturdiest cam and groove coupling system.



#### **Features and Benefits**

- The Only Original
- Not affected by process vibrations
- Twin-Kam<sup>™</sup> arms, prevent unintentional arm release beyond 45°
- Added protection, exclusive Twin-Kam arm design with special detent provide extra protection against accidental release or uncoupling.
- **GFL™** Guaranteed For Life cam arms
- **316 Stainless Steel,** EN10204-3.1 material certification available
- Cam and Groove design provides reliable smooth operation in 360° orientation

- Ease of use Arms lock automatically. No clips to insert or remove, no springloaded button to push.
- Spring-Ring™ finger-rings, rings will not get trapped under the arms so opening and closing is quick and easy
- Heavy-duty construction
- Best value, built to the highest quality standards with unique ease of use and safety features makes OPW Autolok the best overall value in the market



Only the original Autolok™ quick couplers come with the patented smooth-action arms to ensure hassle free operation. Always specify authentic OPW Autolok™ to ensure safety, cleanliness and reliability.



# **AUTOLOK™** standard configuration

**733BBL Coupler (BSPT)** with male thread



**733CL Coupler** with hose shank



**733CCL Coupler** with hose shank for use with reusable hoseclamps to DIN2817



733DBSL Coupler (BSPP) with female thread



**733DBSFL Coupler (BSPP)** with Thread Gasket (DIN2828)



733DCL dustcap



• finger rings are standard on all sizes

AL = aluminium BR = bronze SS = 316 Stainless Steel
PP = polypropylene

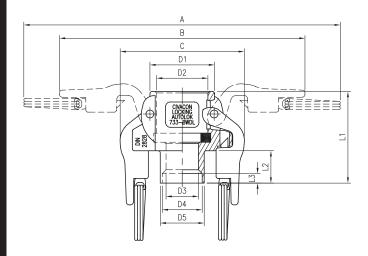
PP =	polyp	ropyle	ene										
mm	15	20	25	32	40	50	65	80	100	125	150	200	
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8	
AL	•	•	•	•	•	•	•	•	•	•	•	•	
BR	•	•	•	•	•	•	•	•	•	•	•	•	
SS	•	•	•	•	•	•	•	•	•	-	-	-	
PP	-	•	•	-	•	•	-	•	-	-	-	-	
mm	15	20	25	32	40	50	65	80	100	125	150	200	
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8	
AL	-	-	-	-	-	-	-	-	-	-	-	-	
BR	-	-	-	-	-	-	-	-	-	-	-	-	
SS	-	•	•	•	•	•	•	•	•	-	-	-	
PP	-	-	-	-	-	-	-	-	-	-	-	-	
				1	1	1	1	1	1				
mm	15	20	25	32	40	50	65	80	100	125	150	200	
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8	
AL	-	-	-	-	-	-	-	-	-	-	-	-	
BR	-	-	-	-	-	-	-	-	-	-	-	-	
SS	-	•	•	•	•	•	•	•	•	-	-	-	
PP	PP												
		1				1			1	1			
mm	15	20	25	32	40	50	65	80	100	125	150	200	
inch	1/2	3/4	1	11/4	1 <sup>1</sup> / <sub>2</sub>	2	21/2	3	4	5	6	8	
AL	-	-	-	-	-	-	-	-	-	-	-	-	
BR	-	-	-	-	-	-	-	-	-	-	-	-	
SS	•	•	•	•	•	•	•	•	•	-	-	-	
PP	-	_	_	_		_	-		_	-	-	_	
pana	15	20	25	32	40	50	65	80	100	125	150	200	
inch	1/2	3/4	1	32 11/ <sub>4</sub>	11/2	2	21/2	3	4	5	6	8	
AL	-	-	-	-	- 172	-	-	-	-	-	-	-	
BR	-	-	-	-	-	-	-	-	-	_	-	_	
SS	•	•	•	•	•	•	•	•	-	-	-	-	
PP	-	-	-	-	-	-	-	-	-	-	-	_	
mm	15	20	25	32	40	50	65	80	100	125	150	200	
inch	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8	
AL	-	-	-	-	-	-	-	-	-	-	-	-	
BR	-	-	-	-	-	-	-	-	-	-	-	-	
SS	_*	•	•	•	•	•	•	•	•	-	-	-	

<sup>\*</sup>  $^{3}/_{4}$  is suitable for  $^{1}/_{2}$ 

#### **AUTOLOK<sup>TM</sup>**

#### SS BUTT-WELD 733BWDL-SS

dim.	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
А	210	220	235	245	255	265	295	320
В	168	178	197	205	214	226	252	280
С	85	91	105	113	122	134	154	182
D1	42	46	58	66	79	89	110	141
D2	33	37	46	54	64	77	92	120
D3	19	24	32	38	48	60	76	100
D4	22.3	28.5	37.2	43.1	54.5	70.3	82.5	107.1
D5	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3
L1	56	62	71	72	78	79	90	98
L2	20	20	22	22	26	22	33	39
L3	6	6.5	6.5	6.5	7.5	7.5	8	9
						Di	imensions	in mm.

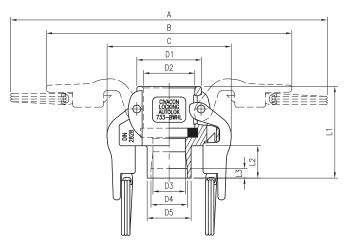


## **AUTOLOK**<sup>TM</sup>

#### SS BUTT-WELD 733BWHL-SS

dim.	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
Α	210	210	220	235	245	255	265	295	320
В	168	168	178	197	205	214	226	252	280
С	85	85	91	105	113	122	134	154	182
D1	42	42	46	58	66	79	89	110	141
D2	33	33	37	46	54	64	77	92	120
D3	14	19	24	32	38	48	60	76	100
D4	18.1	23.7	29.7	38.4	44.3	56.3	71.5	84.3	109.1
D5	21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3
L1	48	48	62	71	72	78	79	90	98
L2	12	12	21	22	22	26	22	33	39
L3	5	5	5	5	5	5	5	5	5

Dimensions in mm.





## **Material Specifications**

Material	KAMLOK®											
	Body	316SS	Aluminium	Bronze	Poly	ypropylei	ne					
	Arms/pins	316SS	316SS	316SS	316SS							
	Finger Rings	316SS	316SS	316SS	31	6SS						
Material	AUTOLOK™											
	Body	316SS										
	Arms/pins	316SS										
	Finger Rings	316SS										
Sizes		DN15 - DN200										
Connections		BSPT	Hose shank									
		BSPP DIN or ANSI flanged										
		NPT	Welding ends									
			Unmachined									
KAMLOK®	Material	Aluminium	Polypropylene	Polypropylene	e 316 SS & Bronze							
MAWP	Size (mm)	15-100	20-50	80	15-100	125	150					
	Pressure (Bar)	10	7	4	16	10	10					
AUTOLOK™	Material				316SS							
MAWP	Size (mm)				15-100							
	Pressure (Bar)				16							

Material Test Certificate to EN10204 3.1 for 316 Stainless Steel available upon request Kamlok & Autolok conform to DIN2828 and are interchangeable with EN14420

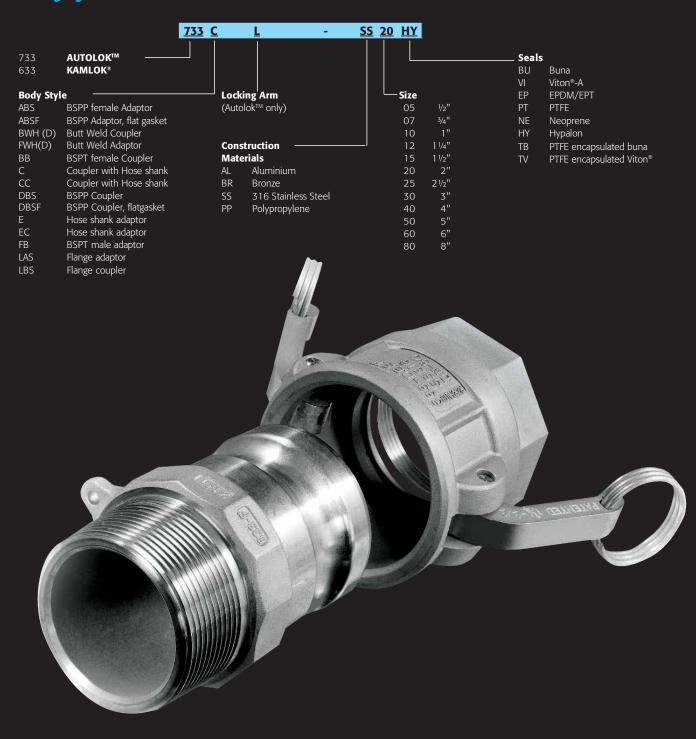


## Seal temperature rating

	PTFE																			
	Hypal	on ®																		
	Viton®-A																			
	PTFE-encapsulated Viton ®																			
	EPDM EPDM																			
	Buna																			
			Neoprene																	
			Neoprene (FD.																	
	PTFE- encapsulated Buna																			
-40	-30	-20	-18 -10	0	10	20	40	60	80	100	110	120	140	150	160	180	200	210	220	24
						_														

Temperature in °C

## **Ordering guide**













#### **OPW Fluid Transfer Group: One Company, Five Brands**

From the European Head office near Amsterdam The Netherlands, these 5 OPW Fluid Transfer Group brands are supported. In addition Loading Arms, Tank Truck equipment and its related accessories are designed and manufactured here to serve the OPW FTG Europe BV territory.

www.opw-ftg.nl

Dedicated engineered and patented solutions for pipe, tube and hose connections used for extreme applications high/low temperature & pressure and nuclear. Examples: RapidLOK™ for flange replacement; save vents and drains; locking quick connect; product recovery systems; cryogenic couplings; autoclave check valves.

www.opw-es.com

Mechanical and electronic components and systems for the save loading, transportation and offloading of hazardous fluids on road tankers. Examples: flat bottom API's; bottom valves; vapour recover valves; overfill prevention system; sealed parcel delivery system; onboard monitoring system; crossover prevention system.

Components for pneumatic tank trailers, rail cars, chemical and pharmaceutical plants, and any application requiring the processing, movement and storage of dry bulk or liquid materials. Example: butterfly valves; ball valves; sample systems; actuators; aeration systems; swing check valves.

www.civacon.com

Mechanical and electronic components and systems for the safe storage, transfer and loading of hazardous fluids at chemical plants, refineries and terminals. Examples: loading arms for fuels, chemicals, bitumen; rack monitoring system; quick disconnects (kamlok®, autolok™); dry disconnects (epsilon™, drylok™, kamvalok®); floating suction assemblies.

www.opw-es.com

Components and systems for the save loading, transportation and offloading of hazardous fluids and dry bulk on pressure & non-pressure railroad tank cars and dry bulk road tankers.

Examples: pressure & vacuum relief valves; needle valves; top transfer valves; valve actuator systems; overfill prevention systems.

www.midlandmfg.com

\*手机: 139 1096 2635 \*电子邮件: sales@cnmec.biz