



Premium Camlocks

Product Range
Brochure

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Camlocks (Cam & Groove)

Specifications - Design Information

Application

The Dixon™ camlock coupling is a reliable quick-connect coupling for use with hose, pipe, tubing, and tanks conveying a wide variety of liquids, dry bulk materials, and vapours including cooling water, fuels, chemicals, cosmetics, food products, adhesives, dyes, pharmaceuticals, pellets and much more.

How does it work?

To make the connection, slide the male adaptor into the female coupler and with normal hand pressure, press the cam levers down. Uncoupling is as quick and simple as coupling. Lift the cam arms and remove the adaptor.

Approvals

The Dixon™ range of camlock couplers and adaptors are manufactured to interchange with all products produced to commercial item description A-A 59326D, which supersedes Mil-C-27487. No standard exists for the 15mm (½") & 200mm (8") fittings and generally, these sizes do not interchange with other manufacturers.

Pressure Ratings

Designed for use with liquids. Consult Dixon™ for specific recommendations. Recommendations are based on the use of mating Dixon™ fittings at an ambient temperature of 21°C with a standard seal as noted in the table below. For use at elevated temperatures or other unusual operating conditions, consult your Dixon™ representative.

Aluminium, Bronze, Brass, Stainless Steel & Malleable Camlocks

Size (mm)	15	20-50	65	75	100	125-150	200
Pressure (PSI)	150	250	150	125	100	75	50

Polypropylene & Nyglass Camlocks

Size (mm)	15-20	32-50	75	100
Pressure (PSI)	125	100	60	50

Materials

The Dixon™ range of camlock couplers and adaptors are manufactured from the following materials:

- Aluminium conforming to the requirements of ASTM-A383
- Stainless steel grade CF8M (316 Equivalent) in accordance with the requirements of ASTM-A351
- Bronze grade UNS C84400 in accordance with the requirements of ASTM-B584
- Brass grade UNS C38500 in accordance with the requirements of ASTM-B455
- Polypropylene 30% glass filled
- Nyglass 30% glass filled
- Hastelloy

Body	Levers	Pins	Pull Rings	Seal
Die Cast Aluminium	Brass	Zinc Plated Steel	Zinc Plated Steel	Nitrile Buna Rubber
Brass	210 Stainless Steel	Zinc Plated Steel	Zinc Plated Steel	Nitrile Buna Rubber
Bronze	210 Stainless Steel	Zinc Plated Steel	Zinc Plated Steel	Nitrile Buna Rubber
Polypropylene	210 Stainless Steel	Zinc Plated Steel	Zinc Plated Steel	EPDM
Nyglass	210 Stainless Steel	Zinc Plated Steel	Zinc Plated Steel	EPDM
Stainless Steel	210 Stainless Steel	303 Stainless Steel	316 Stainless Steel	Nitrile Buna Rubber
Hastelloy	316 Stainless Steel	302 Stainless Steel	316 Stainless Steel	FKM

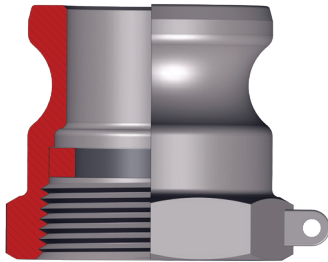
Welding of Camlocks

Couplings made using the die-cast process must not be welded. Although bronze sand cast couplings made from the above materials may be welded using the appropriate welding equipment and compatible filler material, any modifications to the product will void your warranty. Welding the couplings changes the integrity of the coupling therefore Dixon™ will not accept any responsibility for modified couplings.

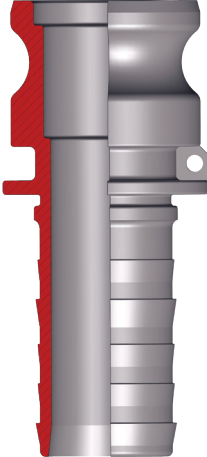


- Under no circumstances should camlock couplings be used in compressed air or steam applications
- Polypropylene and nyglass should not be mixed with aluminium fittings
- Dust caps and dust plugs are not to be used in any pressure applications for safety and environmental reasons

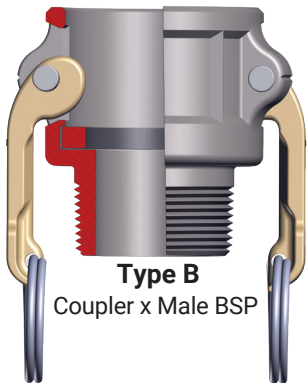
Camlock Configurations



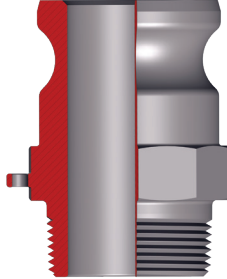
Type A
Adaptor x Female BSP



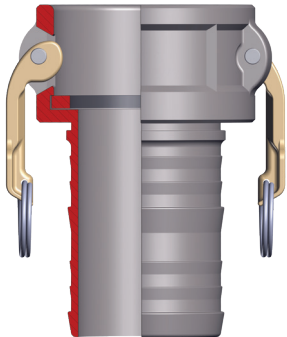
Type E
Adaptor x Hose Tail



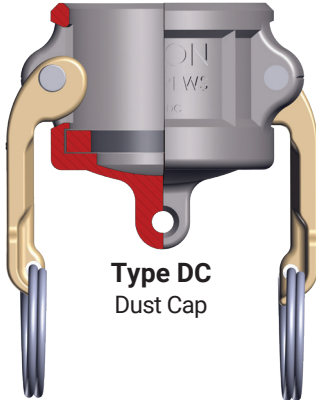
Type B
Coupler x Male BSP



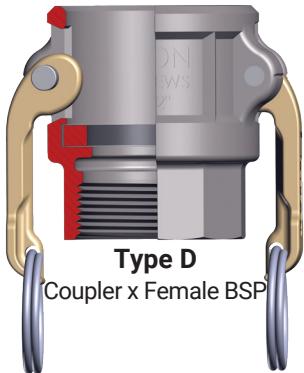
Type F
Adaptor x Male BSP



Type C
Coupler x Hose Tail



Type DC
Dust Cap



Type D
Coupler x Female BSP



Type DP
Dust Plug

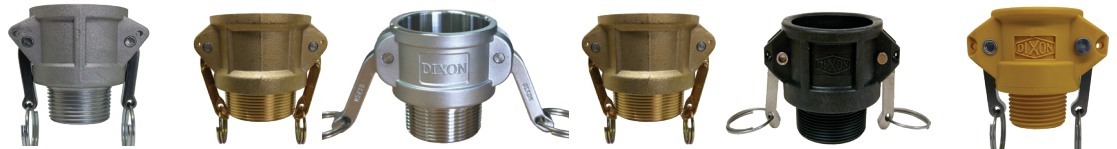
C

Dixon™ Premium Type A Adaptor x Female BSP



Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050A	BR050A	SS050A	-	PPA050A ¹	NGA050A
20	250	ALDC075A	BR075A	SS075A	BRSS075A	PPA075A	NGA075A
25	250	ALDC100A	BR100A	SS100A	BRSS100A	PPA100A	NGA100A
32	250	ALDC125A	BR125A	SS125A	BRSS125A	PPA125A	NGA125A
40	250	ALDC150A	BR150A	SS150A	BRSS150A	PPA150A	NGA150A
50	250	ALDC200A	BR200A	SS200A	BRSS200A	PPA200A	NGA200A
65	150	ALDC250A	BR250A	SS250A	BRSS250A	-	-
75	125	ALDC300A	BR300A	SS300A	BRSS300A	PPA300A	NGA300A
100	100	ALDC400A	BR400A	SS400A	BRSS400A	PPA400A	NGA400A
125	75	ALDC500A	BR500A	SS500A	-	-	-
150	75	ALDC600A	BR600A	SS600A	-	-	-

Dixon™ Premium Type B Coupler x Male BSP



Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050B	BR050B	SS050B	-	PPB050A ¹	NGB050A
20	250	ALDC075B	BR075B	SS075B	BRSS075B	PPB075A	NGB075A
25	250	ALDC100B	BR100B	SS100B	BRSS100B	PPB100A	NGB100A
32	250	ALDC125B	BR125B	SS125B	BRSS125B	PPB125A	NGB125A
40	250	ALDC150B	BR150B	SS150B	BRSS150B	PPB150A	NGB150A
50	250	ALDC200B	BR200B	SS200B	BRSS200B	PPB200A	NGB200A
65	150	ALDC250B	BR250B	SS250B	BRSS250B	-	-
75	125	ALDC300B	BR300B	SS300B	BRSS300B	PPB300A	NGB300A
100	100	ALDC400B	BR400B	SS400B	BRSS400B	PPB400A	NGB400A
125	75	ALDC500B	BR500B	SS500B	-	-	-
150	75	ALDC600B	BR600B	SS600B	-	-	-



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- Polypropylene and nyglass should not be mixed with aluminium fittings

Dixon™ Premium Type C Coupler x Hose Tail



C

Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050C	BR050C	SS050C	-	PPC050A ¹	NGC050A
20	250	ALDC075C	BR075C	SS075C	BRSS075C	PPC075A	NGC075A
25	250	ALDC100C	BR100C	SS100C	BRSS100C	PPC100A	NGC100A
32	250	ALDC125C	BR125C	SS125C	BRSS125C	PPC125A	NGC125A
40	250	ALDC150C	BR150C	SS150C	BRSS150C	PPC150A	NGC150A
50	250	ALDC200C	BR200C	SS200C	BRSS200C	PPC200A	NGC200A
65	150	ALDC250C	BR250C	SS250C	BRSS250C	-	-
75	125	ALDC300C	BR300C	SS300C	BRSS300C	PPC300A	NGC300A
100	100	ALDC400C	BR400C	SS400C	BRSS400C	PPC400A	NGC400A
125	75	ALDC500C	BR500C	SS500C	-	-	-
150	75	ALDC600C	BR600C	SS600C	-	-	-

Dixon™ Premium Type D Coupler x Female BSP

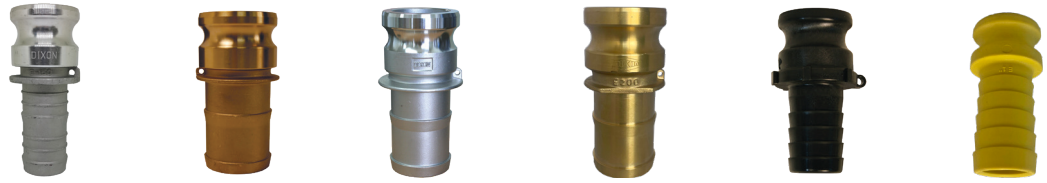


Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050D	BR050D	SS050D	-	PPD050A ¹	NGD050A
20	250	ALDC075D	BR075D	SS075D	BRSS075D	PPD075A	NGD075A
25	250	ALDC100D	BR100D	SS100D	BRSS100D	PPD100A	NGD100A
32	250	ALDC125D	BR125D	SS125D	BRSS125D	PPD125A	NGD125A
40	250	ALDC150D	BR150D	SS150D	BRSS150D	PPD150A	NGD150A
50	250	ALDC200D	BR200D	SS200D	BRSS200D	PPD200A	NGD200A
65	150	ALDC250D	BR250D	SS250D	BRSS250D	-	-
75	125	ALDC300D	BR300D	SS300D	BRSS300D	PPD300A	NGD300A
100	100	ALDC400D	BR400D	SS400D	BRSS400D	PPD400A	NGD400A
125	75	ALDC500D	BR500D	SS500D	-	-	-
150	75	ALDC600D	BR600D	SS600D	-	-	-



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Dixon™ Premium Type E Adaptor x Hose Tail



Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050E	BR050E	SS050E	-	PPE050A ¹	NGE050A
20	250	ALDC075E	BR075E	SS075E	BRSS075E	PPE075A	NGE075A
25	250	ALDC100E	BR100E	SS100E	BRSS100E	PPE100A	NGE100A
32	250	ALDC125E	BR125E	SS125E	BRSS125E	PPE125A	NGE125A
40	250	ALDC150E	BR150E	SS150E	BRSS150E	PPE150A	NGE150A
50	250	ALDC200E	BR200E	SS200E	BRSS200E	PPE200A	NGE200A
65	150	ALDEC50E	BR250E	SS250E	BRSS250E	-	-
75	125	ALDC300E	BR300E	SS300E	BRSS300E	PPE300A	NGE300A
100	100	ALDC400E	BR400E	SS400E	BRSS400E	PPE400A	NGE400A
125	75	ALDC500E	BR500E	SS500E	-	-	-
150	75	ALDC600E	BR600E	SS600E	-	-	-

Dixon™ Premium Type F Adaptor x Male BSP

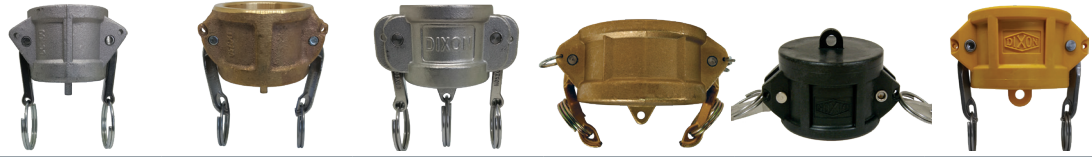


Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050F	BR050F	SS050F	-	PPF050A ¹	NGF050A
20	250	ALDC075F	BR075F	SS075F	BRSS075F	PPF075A	NGF075A
25	250	ALDC100F	BR100F	SS100F	BRSS100F	PPF100A	NGF100A
32	250	ALDC125F	BR125F	SS125F	BRSS125F	PPF125A	NGF125A
40	250	ALDC150F	BR150F	SS150F	BRSS150F	PPF150A	NGF150A
50	250	ALDC200F	BR200F	SS200F	BRSS200F	PPF200A	NGF200A
65	150	ALDC250F	BR250F	SS250F	BRSS250F	-	-
75	125	ALDC300F	BR300F	SS300F	BRSS300F	PPF300A	NGF300A
100	100	ALDC400F	BR400F	SS400F	BRSS400F	PPF400A	NGF400A
125	75	ALDC500F	BR500F	SS500F	-	-	-
150	75	ALDC600F	BR600F	SS600F	-	-	-



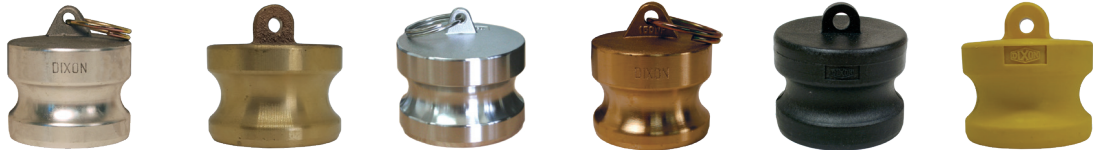
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Dixon™ Premium Type DC Dust Cap



Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050DC	BR050DC	SS050DC	-	PPH050A	NGH050A
20	250	ALDC075DC	BR075DC	SS075DC	BRSS075DC	PPH075A	NGH075A
25	250	ALDC100DC	BR100DC	SS100DC	BRSS100DC	PPH100A	NGH100A
32	250	ALDC125DC	BR125DC	SS125DC	BRSS125DC	PPH125A	NGH125A
40	250	ALDC150DC	BR150DC	SS150DC	BRSS150DC	PPH150A	NGH150A
50	250	ALDC200DC	BR200DC	SS200DC	BRSS200DC	PPH200A	NGH200A
65	150	ALDC250DC	BR250DC	SS250DC	BRSS250DC	-	-
75	125	ALDC300DC	BR300DC	SS300DC	BRSS300DC	PPH300A	NGH300A
100	100	ALDC400DC	BR400DC	SS400DC	BRSS400DC	PPH400A	NGH400A
125	75	ALDC500DC	BR500DC	SS500DC	-	-	-
150	75	ALDC600DC	BR600DC	SS600DC	-	-	-

Dixon™ Premium Type DP Dust Plug



Size (mm)	Working Pressure (psi)	Part Numbers					
		Aluminium	Bronze	Stainless Steel	Brass	Polypropylene	Nyglass
15	150	ALDC050DP	BR050DP	SS050DP	-	PPP050A	NGP050A
20	250	ALDC075DP	BR075DP	SS075DP	BRSS075DP	PPP075A	NGP075A
25	250	ALDC100DP	BR100DP	SS100DP	-	PPP100A	NGP100A
32	250	ALDC125DP	BR125DP	SS125DP	BRSS125DP	PPP125A	NGP125A
40	250	ALDC150DP	BR150DP	SS150DP	BRSS150DP	PPP150A	NGP150A
50	250	ALDC200DP	BR200DP	SS200DP	BRSS200DP	PPP200A	NGP200A
65	150	ALDC250DP	BR250DP	SS250DP	BRSS250DP	-	-
75	125	ALDC300DP	BR300DP	SS300DP	BRSS300DP	PPP300A	NGP300A
100	100	ALDC400DP	BR400DP	SS400DP	BRSS400DP	PPP400A	NGP400A
125	75	ALDC500DP	BR500DP	SS500DP	-	-	-
150	75	ALDC600DP	BR600DP	SS600DP	-	-	-



• Dust caps and dust plugs are not to be used in any pressure applications for safety and environmental reasons



The Right Connection®

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