

CAM AND GROOVE QUICK COUPLINGS

HOSEXPERTS
www.hosexperts.com
One Stop Solution For Flexible Hoses

For
Liquid
And
Gas
Transfer
Systems



A GROWTH INDUSTRY

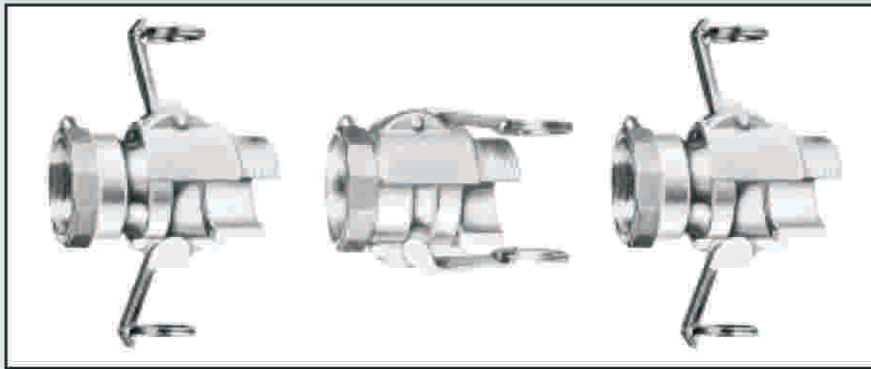
Since the invention of cam and groove quick couplings, demand has grown steadily because they excel all other methods in ease of use and reliability.

In addition to the hundreds of known uses, industrial engineers are finding new ones daily. Usage has expanded so rapidly that the standards in this catalogue are accepted world-wide for most liquid, gas and bulk transfer systems.

We maintain high inventories and also manufacture many specialty couplings. If you do not find the solution to your coupling problem, contact us for additional information and design services.

HOW TO MAKE A QUICK CONNECTION

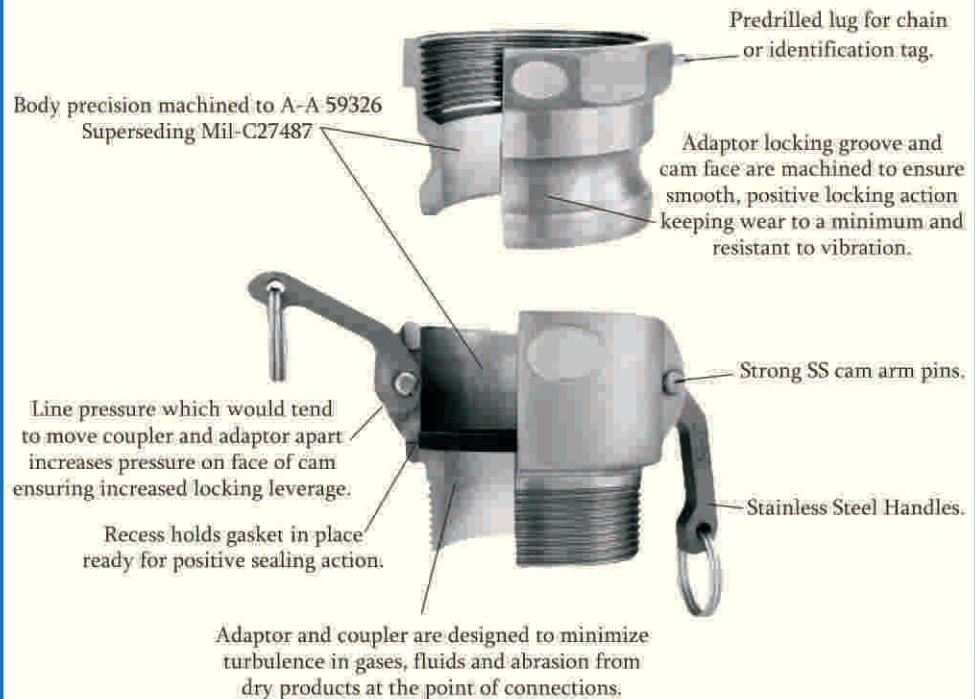
To make connection, simply extend coupler arms and slip the adaptor smoothly inside the coupler



When adaptor makes contact against the gasket, press the cam levers down until they are parallel to body of coupler with normal hand pressure. The cam bears on the groove keeping adaptor and coupler securely locked together in a permanent leakproof connection until released.

Uncoupling is just as quick and easy. Again, using normal hand pressure, lift locking arms or levers and slide adaptor out of the coupler. Gasket remains securely in place ready for the next connection.

ENGINEERED TO GIVE YEARS OF LEAK-PROOF CONNECTIONS



PRECISION MACHINED FOR COMPLETE INTERCHANGEABILITY

Any adaptor (male) may be coupled with any coupler (female) of the same size. This provides maximum flexibility in setting up the most convenient and efficient quick coupling system needed for the job. Adaptors and couplers are available with either male or female BSP thread or hose shank connection. Each part carries a letter prefix which designates whether it is an adaptor or a coupler and whether it is threaded male or female or hose shank. The letter system is standard in the industry and facilitates proper identification of the basic parts available. Examples are illustrated below.

EIGHT STANDARD PARTS EACH ONE IN 11 SIZES

Adaptors

Part A
Male Adaptor x Female Thread



A

Part E
Male Adaptor x Hose Shank



E

Part F
Male Adaptor x Male Thread



F

Part DP
Dust Plug For Couplers



DP

Couplers



C

Part C
Female Coupler x Hose Shank



D

Part D
Female Coupler x Female Thread



B

Part B
Female Coupler x Male Thread



DC

Part DC
Dust Cap For Adaptors

Part No. Reference Chart

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
Type A	050A	075A	100A	125A	150A	200A	250A	300A	400A	500A	600A
Type B	050B	075B	100B	125B	150B	200B	250B	300B	400B	500B	600B
Type C	050C	075C	100C	125C	150C	200C	250C	300C	400C	500C	600C
Type D	050D	075D	100D	125D	150D	200D	250D	300D	400D	500D	600D
Type E	050E	075E	100E	125E	150E	200E	250E	300E	400E	500E	600E
Type F	050F	075F	100F	125F	150F	200F	250F	300F	400F	500F	600F
Type DC	050DC	075DC	100DC	125DC	150DC	200DC	250DC	300DC	400DC	500DC	600DC
Type DP	050DP	075DP	100DP	125DP	150DP	200DP	250DP	300DP	400DP	500DP	600DP

Available In Aluminium, Bronze, Carbon Steel & Stainless Steel

All eight basic parts are available in aluminium, bronze, carbon steel and stainless steel. You may order parts in other materials.

If you need special materials, call or write us. We will be pleased to supply specifications and prices.

Cam and Groove Specifications

Aluminium Couplers and Adaptors

Size (Inches)	¾" and 1"	1¼" through 2"	2½"	3"	4"	6"
Pressure (psig)	250	250	150	125	100	75
Body	A380 Permanent Mold					356T6 Permanent Mold
Handles	Forged Brass					
Rings	Steel Plated Carbon Steel					
Pins	Carbon Steel					
Gaskets	Buna					

Brass Couplers and Adaptors

Size (Inches)	¾" and 1"	1¼" through 2"	2½"	3"	4"	6"
Pressure (psig)	250	250	150	125	100	n/a
Body	Forged Brass, ASTM #38000					
Handles	Investment cast 304 Stainless	Forged Brass				
Rings	Steel Plated Carbon Steel					
Pins	Carbon Steel					
Gaskets	Buna					

Stainless Steel Couplers and Adaptors

Size (Inches)	¾" and 1"	1¼" through 2"	2½"	3"	4"	6"
Pressure (psig)	250	250	150	125	100	75
Body	304 Stainless Steel Investment Cast CF8M, ASTM #A743					
Handles	304 Sintered Stainless Steel					
Rings	304 Stainless Steel					
Pins	304 Stainless Steel					
Gaskets	Buna					

A general guide to gasket materials

Be sure specify gasket material when ordering couplers. We have listed below a brief recommendation for the five different gasket materials which are available.

BUNA N : Buna N is standard specification. It is recommended for petroleum derivatives, neutral or slightly acidic salt solutions, alcohols, ethers, glycols, facts, oil and greases.

This compound will give good service from -40 F. to 250 F.

NEOPRENE : Neoprene is recommended for alkaline and acid salt solutions and aldehydes.

VITON : Viton is recommended for aromatics, hydrocarbons, liquid chlorine, carbon disulfide and molten sulphur. It is not recommended for ester or the ketone family. It is serviceable from -20 F. to +400 F.

BUTYL : Butyl is recommended for anhydrous ammonia, Skydrol, acetone, methyl ethyl ketone and oxidizing chemicals.

TEFLON : The standard teflon gasket is an envelope with a Buna N core. Viton core gaskets are also available. Teflon is recommended for highly oxidizing fluids, esters, ketones and other liquids not generally handled by either natural or synthetic rubbers.

SPECIAL CAM & GROOVE COUPLINGS



**FEMALE COUPLER
WITH FLANGE**



**MALE ADAPTOR
WITH FLANGE**



**COMBINATION COUPLER
WITH ADAPTOR**



**SPOOL
ADAPTOR**

We have illustrated in the pictures, only four variations of our standards parts for special applications. We have many more in stock. Call or write us if you have a special application. If we don't already have it in stock we will design & make one to your specifications.

MISCELLANEOUS COUPLINGS & CLAMPS



**KING COMBINATION
NIPPLE**



CROWFOOT COUPLINGS (CLAW COUPLINGS)



**DOUBLE BOLT
CLAMP**



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