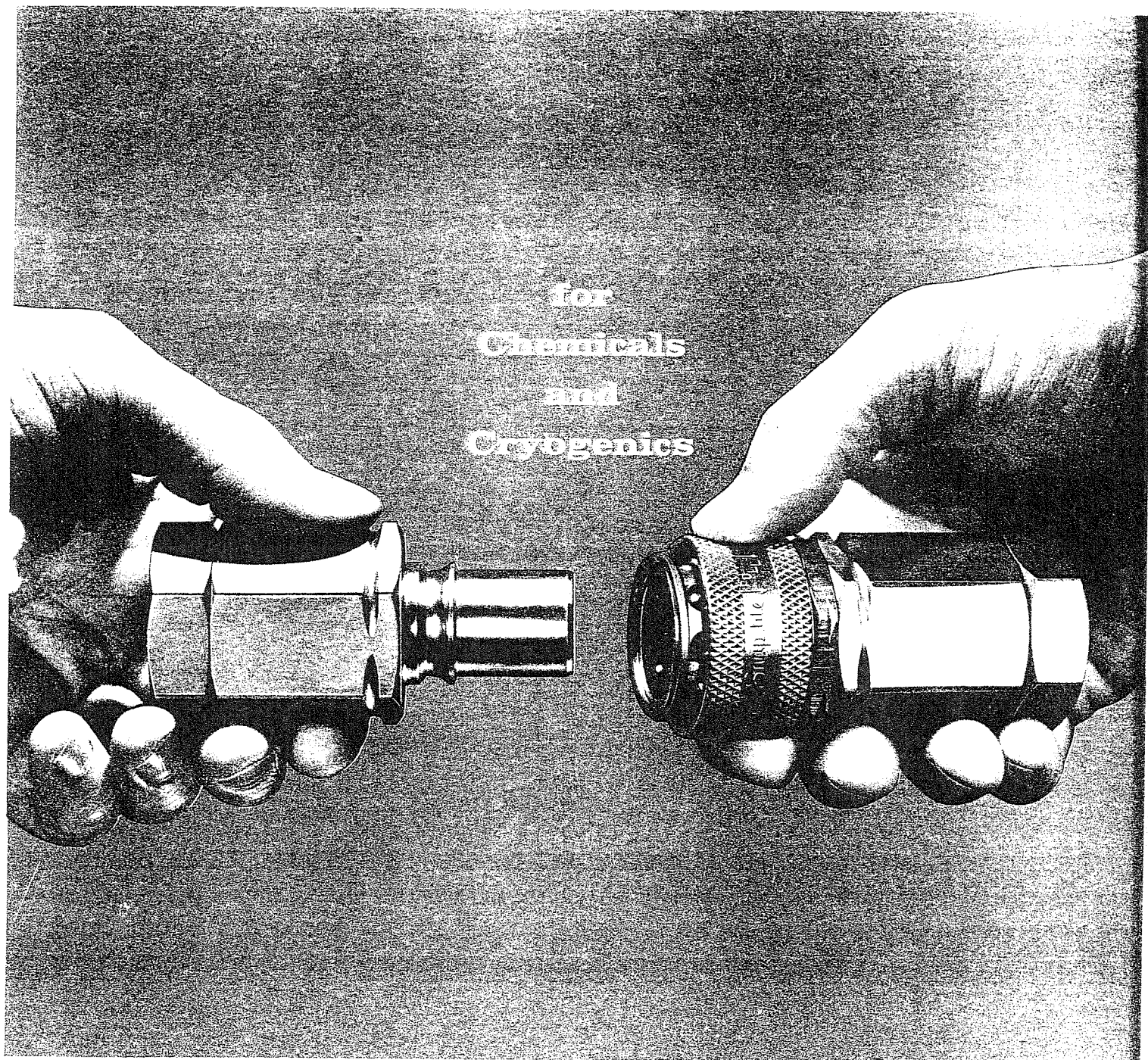


Silicone III Is Lube used on K Series

★
Snap-Tite

K SERIES QUICK-DISCONNECT COUPLINGS



Handle Ranges of Chemicals or Cryogenic Fluids to -452°F

The new K Series quick-disconnects incorporate seals of specially compounded Teflon or Kel-F and a new inside configuration designed to obtain maximum effectiveness from these seal materials.

Properly applied, the Teflon or Kel-F approaches a nearly "universal" seal, making the K Series ideally suited for systems that must handle families of fluids with widely varying chemical characteristics. The new seals answer the shortcomings of rubber elastomer seals, which are limited

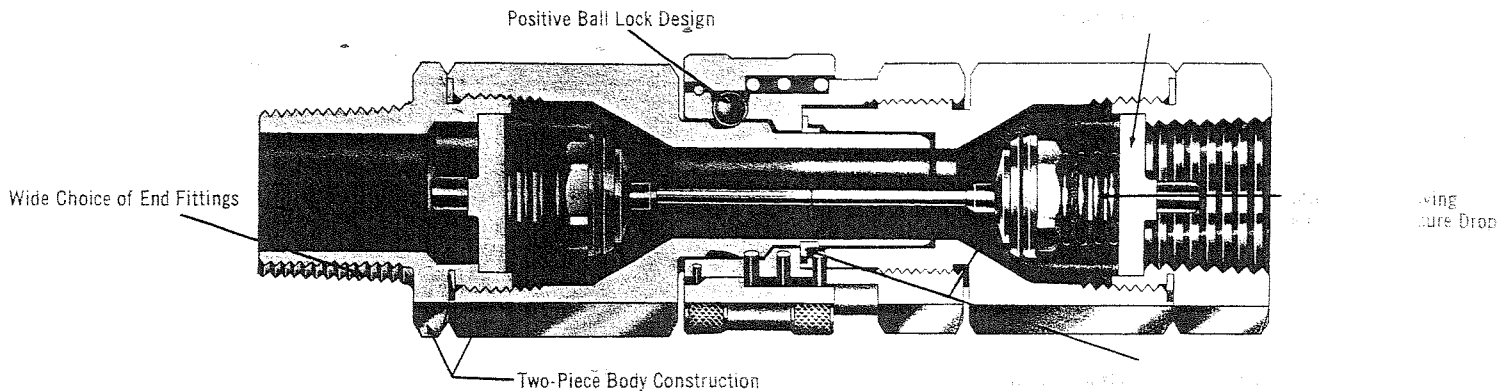
in the types of fluids that any one seal can handle.

K series couplings have been proved reliable in the handling of fluids that would deteriorate other types of seals, such as aromatic hydrocarbons, alcohols, esters, ketones, ethers, strong caustics, sulfuric acid, hydrofluoric acid.

K Series couplings are designed for cryogenic fluids with temperatures ranging to -452°F . They are currently being used to speed the transfer of cryogenic fluids from bulk storage to transport equipment, and on ground support and fueling applications at missile bases. Other units are being used on frozen food processing machinery that utilizes liquid nitrogen.

★ Snap-tite

K SERIES QUICK-DISCONNECT COUPLINGS



THREE COMBINATIONS

1. Double shut-off coupling: Valved nipple and valved coupler. 2. Single shut-off coupling: Plain nipple and valved coupler. 3. No shut-off coupling: Plain nipple and plain coupler. All combinations of the same size are interchangeable regardless of material, finish or end fitting.

Plain couplers are NOT used with valved nipples — valve in nipple cannot be actuated.

SIX SIZES

$\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", 1 $\frac{1}{2}$ ", 2". Other sizes on request.

EIGHT END FITTINGS

Female NPT, Male NPT, AND 10050 (female), MS33656 (male), SAE Female, MS33657 (bulkhead), MS33514 (male), MS33515 (bulkhead). Other fittings on request.

THREE METALS

Anodized aluminum, brass, 316 stainless steel passivated. Other metals on request.

TWO SEALS

Choice of Teflon for chemicals or Kel-F for all cryogenic uses.

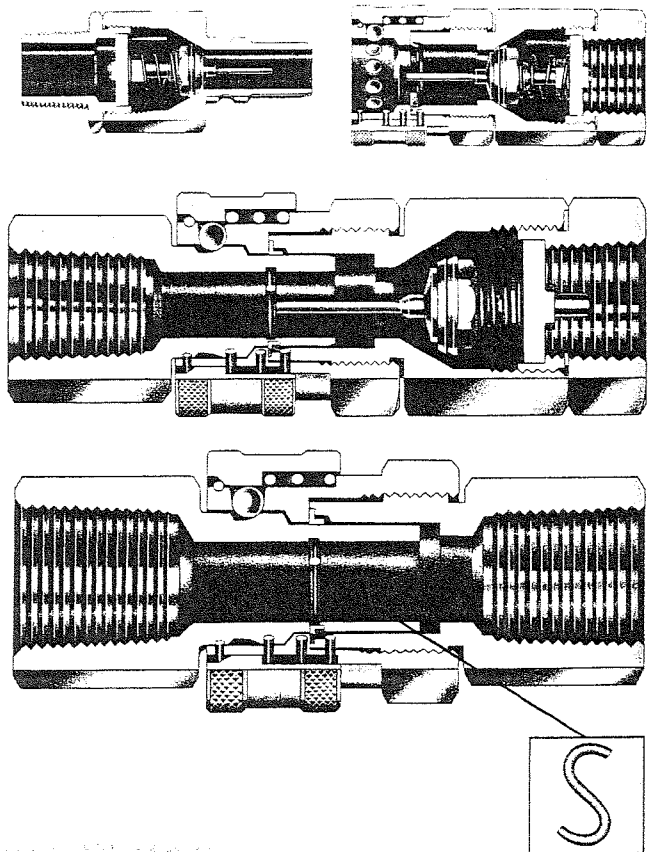
WORKING PRESSURES (psig)	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"
With Kel-F Seals	2000	1500	1000	750	270	270
With Teflon Seals	1000	1000	750	500	270	270

PROOF PRESSURES (psig): 1 $\frac{1}{2}$ times working pressures.

BURST PRESSURES (psig): 2 times working pressures.

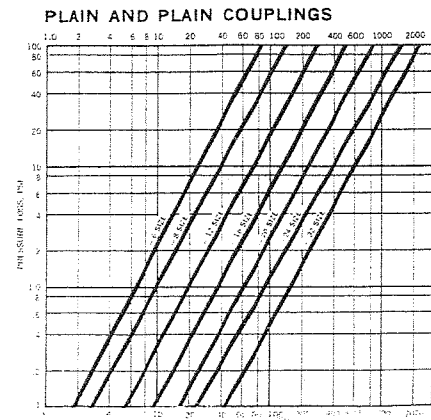
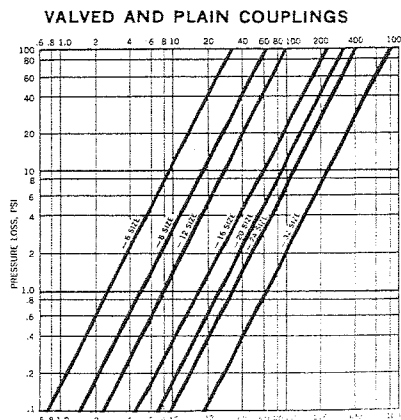
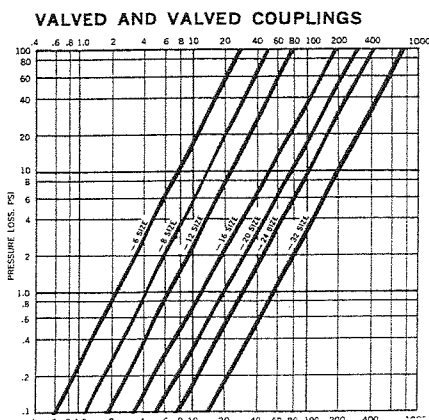
FORCE TO CONNECT (lbs.)*	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"
Valved Couplings	16	18	25	30	37	46
Plain Couplings	2	2	4	5	7	10

*At zero psig internal pressure.



Flow and Pressure Drop: Cryogenic Liquid

Pressure loss vs. liquid nitrogen flow rate. Specific gravity equals .808 at -320°F.

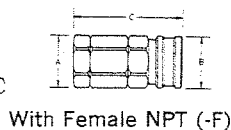


★ Snap-tite

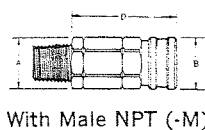
K SERIES COUPLINGS WITH END FITTINGS

Valved Couplers

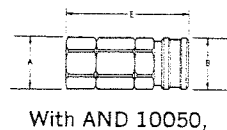
Basic Coupler
Designation: AVKC



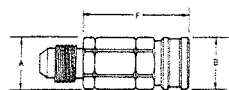
With Female NPT (-F)



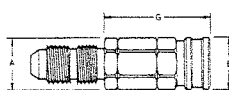
With Male NPT (-M)



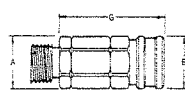
With AND 10050,
Female (-50)
or SAE Female (-EF)



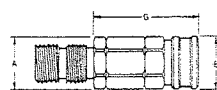
With MS33656,
Male (-56)



With MS33657,
Bulkhead (-57)



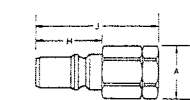
With MS33514,
Male (-14)



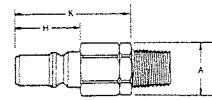
With MS33515,
Bulkhead (-15)

Valved Nipples

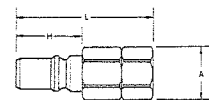
Basic Nipple
Designation: AVKN



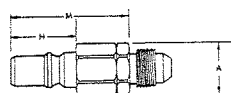
With Female NPT (-F)



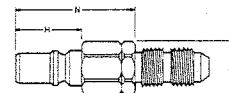
With Male NPT (-M)



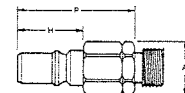
With AND 10050,
Female (-50)
or SAE Female (-EF)



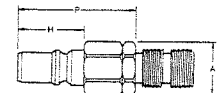
With MS33656,
Male (-56)



With MS33657,
Bulkhead (-57)



With MS33514,
Male (-14)



With MS33515,
Bulkhead (-15)

Part configurations are typical and do not necessarily represent actual appearance.

Dimensions (Inches)—Valved Couplings

	3/8"	1/2"	3/4"	1"	1 1/2"	2"
A (Hex)	1	1 1/8	1 1/2	1 7/8	2 1/2	3 3/8
B	1.21	1.40	1.65	2.02	2.71	3.52
C	2.33	2.85	3.49	4.15	4.49	5.84
D	2.06	2.58	3.19	3.75	4.16	5.43
E	2.42	2.94	3.66	4.32	4.64	6.08
F	2.07	2.56	3.24	3.80	4.14	5.44
G	2.12	2.56	3.24	3.80	4.16	5.44
H	1.01	1.19	1.38	1.54	2.08	2.64
J	2.17	2.78	3.38	4.02	4.46	5.81
K	1.89	2.51	3.09	3.62	4.13	5.40
L	2.25	2.87	3.55	4.19	4.61	6.05
M	1.91	2.49	3.13	3.67	4.12	5.41
N	1.96	2.49	3.13	3.67	4.13	5.41
P	1.95	2.49	3.13	3.67		

NOTES:

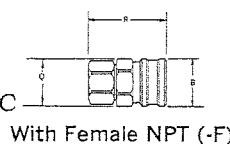
Hex dimensions are taken from flat of hex and not across corners.

Decimal dimensions are $\pm .015$.

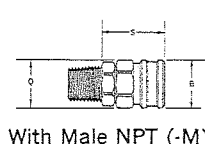
Dimensions are subject to change without notice.

Plain Couplers

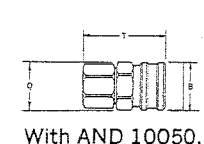
Basic Coupler
Designation: APKC



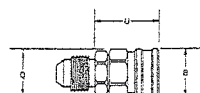
With Female NPT (-F)



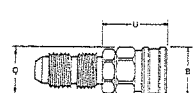
With Male NPT (-M)



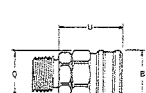
With AND 10050,
Female (-50)
or SAE Female (-EF)



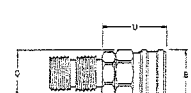
With MS33656,
Male (-56)



With MS33657,
Bulkhead (-57)



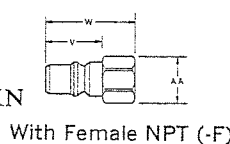
With MS33514,
Male (-14)



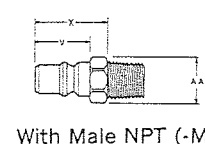
With MS33515,
Bulkhead (-15)

Plain Nipples

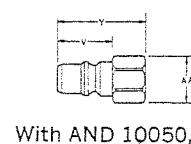
Basic Coupler
Designation: APKN



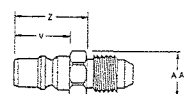
With Female NPT (-F)



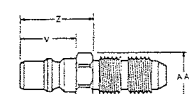
With Male NPT (-M)



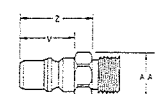
With AND 10050,
Female (-50)
or SAE Female (-EF)



With MS33656,
Male (-56)



With MS33657,
Bulkhead (-57)



With MS33514,
Male (-14)



With MS33515,
Bulkhead (-15)

Dimensions (Inches)—Plain Couplings

	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Q (Hex)	1	1 1/8	1 1/2	1 7/8	2 1/2	2 3/4
B	1.21	1.40	1.65	2.02	2.71	3.52
R	1.73	2.38	2.38	2.92	2.94	3.72
S	1.57	1.68	1.71	2.10	2.44	2.70
T	1.90	2.20	2.32	2.78		
U	1.57	1.68	1.71	2.10		
AA (Hex)	3/8	1 1/8	1 1/2	1 3/4	2 1/2	2 3/4
V	0.88	0.99	1.14	1.26	1.58	2.06
W	1.73	2.01	2.19	2.51	2.88	3.35
X	1.18	1.18	1.52	1.64	1.96	2.44
Y	1.73	2.00	2.19	2.30		
Z	1.18	1.29	1.52	1.64		

NOTES:

Hex dimensions are taken from flat of hex and not across corners.

Decimal dimensions are $\pm .015$.

Dimensions are subject to change without notice.



K SERIES COUPLINGS: ORDERING INFORMATION

Select the proper coupling—consisting of coupler half with end fitting and nipple half with end fitting—from the table—and designate seal requirement.

Coupler and Nipple Part Numbers in table are given in ALUMINUM.

If other material is desired, specify as follows:

BRASS: Eliminate prefix letter A and use prefix letter B. Example: BVKC6-6F.

316 STAINLESS STEEL: Eliminate prefix letter A and use prefix letter S. Example: SVKC6-6F.

SEAL: Specify seal required by adding the suffix designation (TEF) for Teflon and (KEL) for Kel-F to the part number. Example: BVKC6-6F (TEF).

LANYARD ATTACHMENT for ease of disconnecting heavily iced units is available.

SLEEVE LOCK: Prevents accidental disengagement of coupling. To order, add w/SL to coupling part number selected. Example: SVKC6-6F w/SL.

ALUMINUM COUPLINGS WITH END FITTINGS Part Numbers by Size

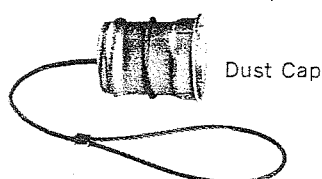
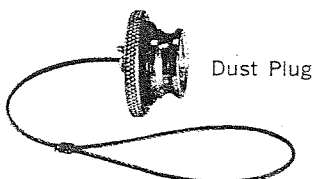
VALVED COUPLERS						
End Fitting	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Female NPT	AVKC6-6F	AVKC8-8F	AVKC12-12F	AVKC16-16F	AVKC24-24F	AVKC32-32F
Male NPT	AVKC6-6M	AVKC8-8M	AVKC12-12M	AVKC16-16M	AVKC24-24M	AVKC32-32M
AND 10050	AVKC6-6-50	AVKC8-8-50	AVKC12-12-50	AVKC16-16-50	AVKC24-24-50	AVKC32-32-50
MS33656	AVKC6-6-56	AVKC8-8-56	AVKC12-12-56	AVKC16-16-56	AVKC24-24-56	AVKC32-32-56
MS33657	AVKC6-6-57	AVKC8-8-57	AVKC12-12-57	AVKC16-16-57	AVKC24-24-57	AVKC32-32-57
MS33514	AVKC6-6-14	AVKC8-8-14	AVKC12-12-14	AVKC16-16-14		
MS33515	AVKC6-6-15	AVKC8-8-15	AVKC12-12-15	AVKC16-16-15		
SAE Female	AVKC6-6-EF	AVKC8-8-EF	AVKC12-12-EF	AVKC16-16-EF	AVKC24-24-EF	AVKC32-32-EF
VALVED NIPPLES						
End Fitting	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Female NPT	AVKN6-6F	AVKN8-8F	AVKN12-12F	AVKN16-16F	AVKN24-24-F	AVKN32-32F
Male NPT	AVKN6-6M	AVKN8-8M	AVKN12-12M	AVKN16-16M	AVKN24-24-M	AVKN32-32M
AND 10050	AVKN6-6-50	AVKN8-8-50	AVKN12-12-50	AVKN16-16-50	AVKN24-24-50	AVKN32-32-50
MS33656	AVKN6-6-56	AVKN8-8-56	AVKN12-12-56	AVKN16-16-56	AVKN24-24-56	AVKN32-32-56
MS33657	AVKN6-6-57	AVKN8-8-57	AVKN12-12-57	AVKN16-16-57	AVKN24-24-57	AVKN32-32-57
MS33514	AVKN6-6-14	AVKN8-8-14	AVKN12-12-14	AVKN16-16-14		
MS33515	AVKN6-6-15	AVKN8-8-15	AVKN12-12-15	AVKN16-16-15		
SAE Female	AVKN6-6-EF	AVKN8-8-EF	AVKN12-12-EF	AVKN16-16-EF	AVKN24-24-EF	AVKN32-32-EF
PLAIN COUPLERS						
End Fitting	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Female NPT	APKC6-6F	APKC8-8F	APKC12-12F	APKC16-16F	APKC24-24F	APKC32-32F
Male NPT	APKC6-6M	APKC8-8M	APKC12-12M	APKC16-16M	APKC24-24M	APKC32-32M
AND 10050	APKC6-6-50	APKC8-8-50	APKC12-12-50	APKC16-16-50		
MS33656	APKC6-6-56	APKC8-8-56	APKC12-12-56	APKC16-16-56		
MS33657	APKC6-6-57	APKC8-8-57	APKC12-12-57	APKC16-16-57		
MS33514	APKC6-6-14	APKC8-8-14	APKC12-12-14	APKC16-16-14		
MS33515	APKC6-6-15	APKC8-8-15	APKC12-12-15	APKC16-16-15		
SAE Female	APKC6-6-EF	APKC8-8-EF	APKC12-12-EF	APKC16-16-EF		
PLAIN NIPPLES						
End Fitting	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Female NPT	APKN6-6F	APKN8-8F	APKN12-12F	APKN16-16F	APKN24-24F	APKN32-32F
Male NPT	APKN6-6M	APKN8-8M	APKN12-12M	APKN16-16M	APKN24-24M	APKN32-32M
AND 10050	APKN6-6-50	APKN8-8-50	APKN12-12-50	APKN16-16-50		
MS33656	APKN6-6-56	APKN8-8-56	APKN12-12-56	APKN16-16-56		
MS33657	APKN6-6-57	APKN8-8-57	APKN12-12-57	APKN16-16-57		
MS33514	APKN6-6-14	APKN8-8-14	APKN12-12-14	APKN16-16-14		
MS33515	APKN6-6-15	APKN8-8-15	APKN12-12-15	APKN16-16-15		
SAE Female	APKN6-6-EF	APKN8-8-EF	APKN12-12-EF	APKN16-16-EF		

Dust Caps and Dust Plugs

Dust Caps and Dust Plugs protect disconnected couplers and nipples from dirt, grease and other contaminants. They are supplied in clear anodized aluminum. On sizes through 3/4", a 10-inch long stainless steel cable is supplied as standard. On larger sizes, a 12-inch long stainless steel cable is supplied. Special lengths available on request.

TO ORDER: For standard caps and plugs, use the part numbers given in the table. For special lengths, add the desired length in inches to the part number. Example: ADPK-6-14.

	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Dust Caps	ADCK-6	ADCK-8	ADCK-12	ADCK-16	ADCK-24	ADCK-32
Dust Plugs	ADPK-6	ADPK-8	ADPK-12	ADPK-16	ADPK-24	ADPK-32



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