

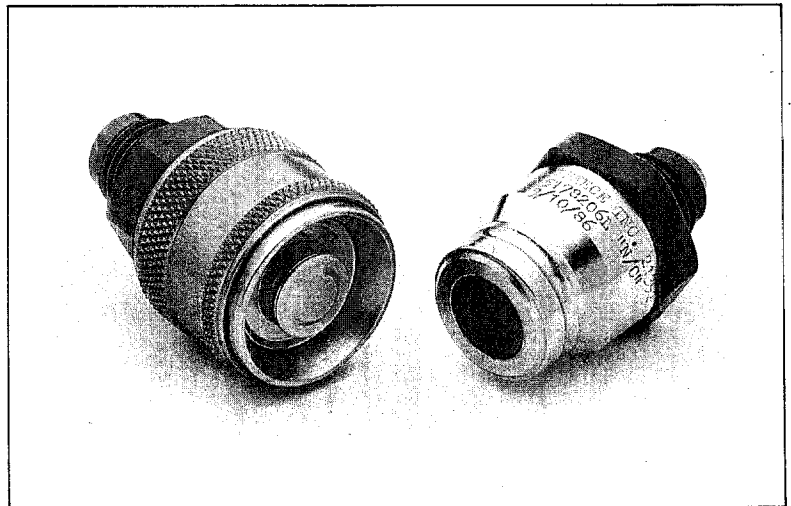


High-Flow, Self-Sealing, Quick Disconnect Coupling.*

Designed for High-Flow and Low Pressure Drop for Electronic Coolant, Hydraulic, and General Purpose Fluid Systems.

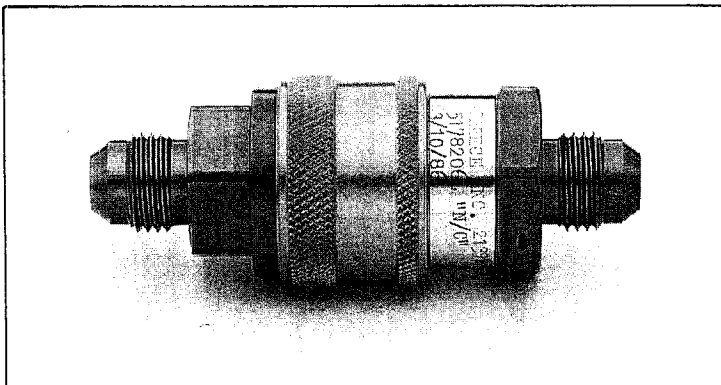
Features and Advantages:

- Meets or exceeds the requirements of MIL-C-25427A and ARP 1709, Class 1000.
- Streamlined flowpath provides unsurpassed flow. (e.g. -08 size: .6 PSID at 5 GPM)
- Design minimizes air inclusion and fluid loss. Nipple poppet seal also serves as the interface seal, eliminating spillage when connected or disconnected.
- O-Rings are not exposed. This reduces contamination and eliminates the problem of shearing of exposed O-Rings.
- Simple latching mechanism increases reliability, yet provides a smooth, positive latch eliminating partially-locked positions.
- No snap rings are used.
- Relief valve available in nipple half.
- Designed to minimize weight, envelope size, and the travel length required to connect.

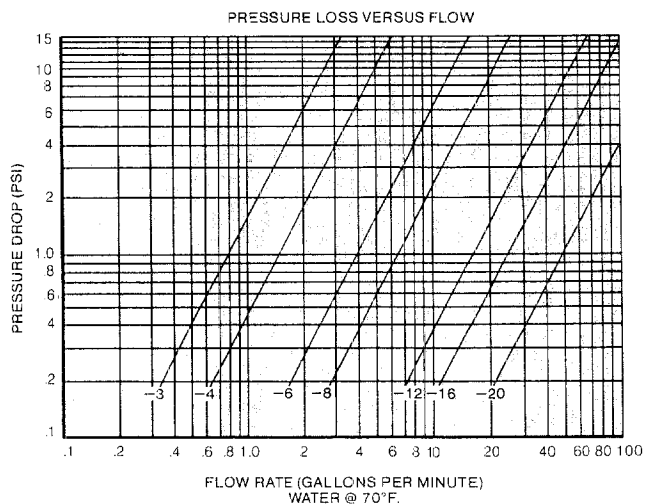


The exposed interface sealing surface in the coupler is recessed to protect it, and to prevent it from being scratched. The nipple poppet/interface seal is enclosed and protected. Since the outside diameter of the nipple is not a sealing surface, the problem of leaks caused by scratches on this surface is eliminated.

Operation:

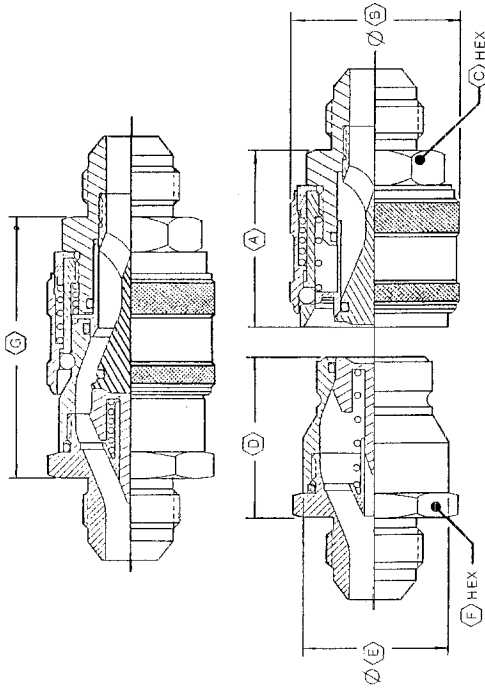


Connecting and Disconnecting: *Connects smoothly with one hand by a simple push movement. Disconnects easily with a straight pull of the outer sleeve.*



* Patent Pending

Specification and Performance Data:



BODY SIZE	BURST PRESSURE COUPLED (PSI)	COUPLER WEIGHT OZ. GRMS	NIPLER WEIGHT OZ. GRMS	A		B		C		D		E		F		G		CONNECT LENGTH IN MM	Cv
				IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		
-03	8,000	14.5	51	.71	18.0	.65	16.5	.56	14.3	.56	14.0	.56	14.0	.56	14.3	.56	14.3	25	.8
04	6,000	32.0	91	1.02	25.9	.93	23.6	.88	22.4	.80	20.3	.80	20.3	.81	20.7	.81	20.7	43	1.4
-06	7,600	56.7	115	1.17	29.7	1.18	30.0	.81	20.7	.97	24.5	.97	24.5	1.00	25.4	1.00	25.4	49	3.8
-08	6,400	90.7	159	1.41	35.8	1.32	33.5	1.00	25.4	1.15	29.2	1.15	29.2	1.18	30.2	1.18	30.2	60	6.4
-12	5,600	232.5	411.1	1.88	47.8	1.84	46.7	1.37	34.9	1.88	47.5	1.88	47.5	1.88	47.5	1.88	47.5	88	15.0
-16	4,000	411.1	739.9	2.45	62.2	2.33	59.2	1.75	44.5	2.06	52.3	2.06	52.3	2.12	54.0	2.12	54.0	117	27.0
-20	3,200	793.8	1,411.1	2.89	71.1	2.80	71.1	2.12	54.0	2.93	74.4	2.93	74.4	2.62	66.7	2.62	66.7	144	51.0

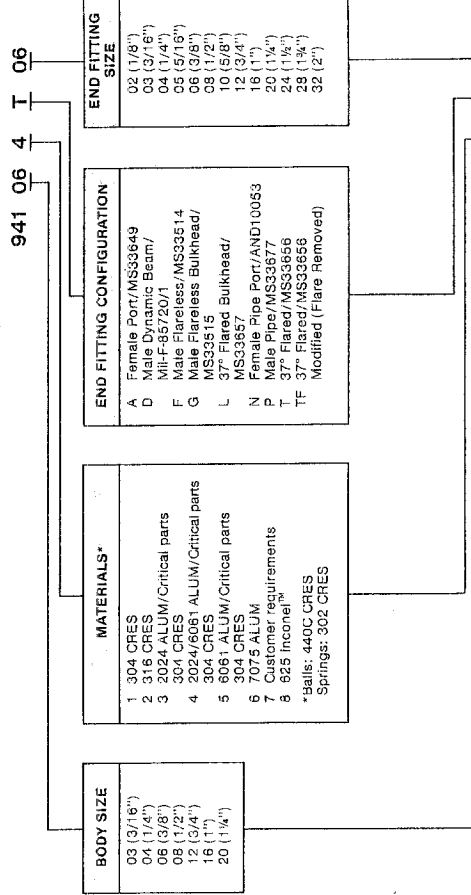
*Weights shown are for materials (4) i.e. ALUMINUM Configuration and MSS33656 End Fitting Configuration. Burst Pressures are for materials (1) i.e. 304-CRES.
Cv factors are for MSS33656 and fittings equal to body size.
**Maximum Diameter

Part Numbering System/9400 Series Coupling

How To Order:

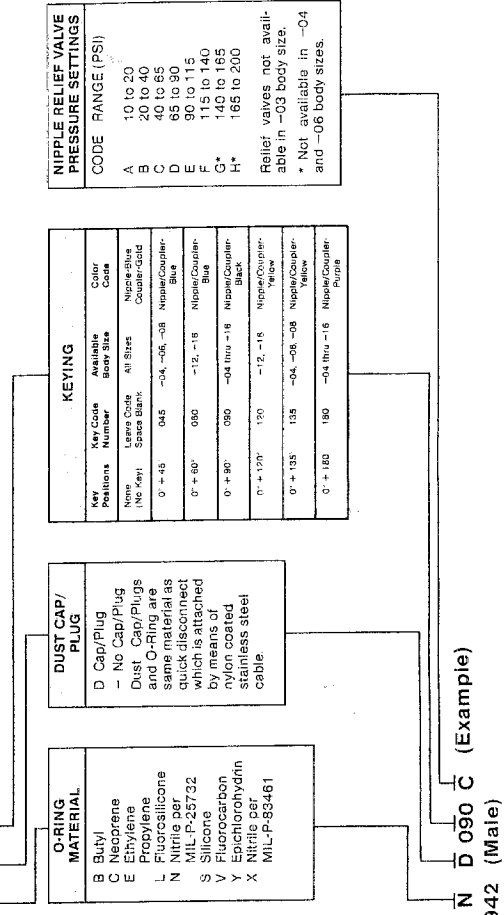
Coupler and Nipple halves of the quick disconnect assembly are ordered separately. The body size for each half must be the same to connect. Materials, end fitting configuration and size may be different. To complete the coupler or nipple part numbers, select the required codes from the table below.

Coupler Half 941



(Female)

N D 090 (Example)



N D 090 C (Example)

N D 090 C (Example)

N D 090 C (Example)

9XX XX X XX D XXX

COUPLER STYLE

- 941 - BASIC 9400 SERIES
- 951 - WITH POSITIVE LATCHING

BODY SIZE

NOMINAL TUBING SIZE FOR BODY DESIGN

EXAMPLE: 03=3/16", 04=1/4", 06=3/8",
08=1/2", 12=3/4", 16=1"
20=1-1/4"

BODY MATERIAL

- 1 - ALL MACHINED PARTS OF 304 CRES
- 2 - ALL MACHINED PARTS OF 316 CRES
- 3 - ALL MACHINED PARTS OF 2024 ALUM EXCEPT CRITICAL PARTS OF 304 CRES
- 4 - ALL MACHINED PARTS OF 2024 OR 6061 ALUM EXCEPT CRITICAL PARTS OF 304 CRES
- 5 - ALL MACHINED PARTS OF 6061 ALUM EXCEPT CRITICAL PARTS OF 304 CRES
- 6 - ALL MACHINED PARTS OF ALUM ALLOY 7075
- 7 - MACHINED PARTS IN ACCORDANCE WITH CUSTOMER REQUIREMENTS (REQUIRES ENGINEERING APPROVAL)
- 8 - ALL MACHINED PARTS OF INCONEL 625

END FITTING CONFIGURATION

- A - FEMALE O-RING PORT / MS 33649
- F - MALE FLARELESS / MS 33514
- G - MALE FLARELESS BULKHEAD / MS 33515
- L - 37° FLARED BULKHEAD / MS 33657
- N - FEMALE PIPE PORT / ANDI 0053
- P - MALE PIPE / MS 33677
- T - 37° FLARED / MS 33656
- TF - MALE FLARED, MODIFIED MS 33656 (FLARE REMOVED)
- D - MALE DYNA TUBE / MIL-F-85720

NOTE: END FITTINGS CAN BE SUPPLIED STANDARD, LARGER OR SMALLER THAN COUPLER BODY SIZE. IF OTHER THAN STANDARD IS REQUIRED, CONSULT FACTORY

EXAMPLE PART NUMBER:
941061F06BD

KEY POSITION(S)	KEYING NUMBER	COUPLER BODY SIZE	COLOR CODING
0° + 45°	045	-04 THRU -08	BLUE
0° + 60°	060	-12 THRU -20	BLUE
0° + 90°	090	-04 THRU -20	BLACK
0° + 120°	120	-12 AND -20	YELLOW
0° + 135°	135	-04 THRU -08	YELLOW
0° + 180°	180	-04 THRU -20	PURPLE
NONE	BLANK	-03 THRU -20	GOLD

D - DUST PLUG ATTACHED, - NO DUST PLUG

AVAILABLE O-RING MATERIAL

- B - BUTYL
- C - NEOPRENE
- E - ETHYLENE PROPYLENE
- L - FLUOROSILICONE
- N - NITRILE
- S - SILICONE
- V - FLUOROCARBON
- Y - EPICHLOROHYDRIN
- X - NITRILE PER MIL-P-83461

END FITTING SIZE

EXAMPLE: 03=3/16", 04=1/4", 06=3/8",
08=1/2", 10=5/8", 12=3/4",
16=1", 20=1-1/4", 24=1-1/2"

**UNATTACHED
DUST PLUG ORDERING INFORMATION**

DUST PLUG PART NUMBER	
COUPLER SIZE	PART NUMBER
-03	94303 (X) (Y)
-04	94304 (X) (Y)
-06	94306 (X) (Y)
-08	94308 (X) (Y)
-12	94312 (X) (Y)
-16	94316 (X) (Y)
-20	94320 (X) (Y)

IN PLACE OF (X) ADD THE NUMBER FOR BODY MATERIAL SELECTION
IN PLACE OF (Y) ADD THE LETTER FOR O-RING MATERIAL SELECTION

NORMALLY, DUST PLUGS ARE PERMANENTLY ATTACHED TO THE COUPLER BY MEANS OF A FLEXIBLE, NYLON COATED, STAINLESS STEEL CABLE.

DUST PLUGS WILL BE SUPPLIED WITH SAME O-RING MATERIAL CALLOUT AS COUPLER

EXAMPLE PART NUMBER
 942061F06B-A
 942084T10ND090
 942206D20X-135C

RELIEF SETTING
 JUMP SIZE
 135° KEYING

RELIEF SETTING
 90° KEYING
 DUST CAP
 RELIEF SETTING

D XXXX

XX

XX X

942

NIPPLE STYLE
 942 - BASIC 9400 SERIES

BODY SIZE
 NOMINAL TUBING SIZE FOR BODY DESIGN
 EXAMPLE: 03=3/16", 04=1/4", 06=3/8", 08=1/2",
 12=3/4", 16=1", 20=1-1/4"

BODY MATERIAL
 1 - ALL MACHINED PARTS OF 304 CRES
 2 - ALL MACHINED PARTS OF 316 CRES
 3 - ALL MACHINED PARTS OF 2024 ALUM EXCEPT
 CRITICAL PARTS OF 304 CRES
 4 - ALL MACHINED PARTS OF 2024 OR 6061 ALUM
 EXCEPT CRITICAL PARTS OF 304 CRES
 5 - ALL MACHINE PARTS OF 6061 ALUM EXCEPT
 CRITICAL PARTS OF 304 CRES
 6 - ALL MACHINED PARTS OF ALUM ALLOY 7075
 7 - MACHINED PARTS IN ACCORDANCE WITH
 CUSTOMER REQUIREMENTS
 (REQUIRES ENGINEERING APPROVAL)
 8 - ALL MACHINED PARTS OF INCONEL 625

END FITTING CONFIGURATION
 A - FEMALE O-RING PORT / MS 33649
 F - MALE FLARELESS / MS 33514
 G - MALE FLARELESS BULKHEAD / MS 33515
 L - 37° FLARED BULKHEAD / MS 33657
 N - FEMALE PIPE PORT / ANDI 0053
 P - MALE PIPE / MS 33677
 T - 37° FLARED / MS 33656
 TF - MALE FLARED MODIFIED MS 33656
 (FLARE REMOVED)
 D - MALE DYNA TUBE MIL-F-85720

NOTE: END FITTINGS CAN BE SUPPLIED STANDARD,
 LARGER OR SMALLER THAN NIPPLE
 BODY SIZE. IF OTHER THAN STANDARD IS
 REQUIRED, CONSULT FACTORY

RELIEF VALVE PRESSURE SETTING			
CODE	RANGE (PSIG)	CODE	RANGE (PSIG)
A	10 TO 20	E	90 TO 115
B	20 TO 40	F	115 TO 140
C	40 TO 65	G	140 TO 165
D	65 TO 90	H	165 TO 200

NOTE: THE -04 & -06 NIPPLE BODY SIZE ARE NOT
 AVAILABLE IN THE G OR H CODE RANGES (CONSULT FACTORY)
 RELIEF VALVES NOT AVAILABLE ON -03 SIZE

KEY POSITION(S)	KEYING NUMBER	COUPLER BODY SIZE	COLOR CODING
0° + 45°	045	-04 THRU -08	BLUE
0° + 60°	060	-12 THRU -20	BLUE
0° + 90°	090	-04 THRU -20	BLACK
0° + 120°	120	-12 THRU -20	YELLOW
0° + 135°	135	-04 THRU -08	YELLOW
0° + 180°	180	-04 THRU -20	PURPLE
NONE	BLANK	-03 THRU -20	GOLD

D - DUST PLUG ATTACHED, - NO DUST PLUG
 AVAILABLE O-RING MATERIAL
 B - BUTYL
 C - NEOPRENE
 E - ETHYLENE PROPYLENE
 L - FLUOROSILICONE
 N - NITRILE
 S - SILICONE
 V - FLUOROCARBON
 Y - EPICHLOROHYDRIN
 X - NITRILE PER MIL-P-83461

END FITTING SIZE
 EXAMPLE: 03=3/16", 04=1/4", 06=3/8", 08=1/2",
 10=5/8", 12=3/4", 16=1", 20=1-1/4", 24=1-1/2"

UNATTACHED
 DUST CAP ORDERING INFORMATION

DUST CAP PART NUMBER	
NIPPLE SIZE	PART NUMBER
-03	94403 (X) (Y)
-04	94404 (X) (Y)
-06	94406 (X) (Y)
-08	94408 (X) (Y)
-12	94412 (X) (Y)
-16	94416 (X) (Y)
-20	94420 (X) (Y)

IN PLACE OF (X) ADD THE NUMBER FOR
 BODY MATERIAL SELECTION
 IN PLACE OF (Y) ADD THE LETTER FOR
 O-RING MATERIAL SELECTION

NORMALLY, DUST CAPS ARE PERMANENTLY
 ATTACHED TO THE NIPPLE BY MEANS OF A
 FLEXIBLE, NYLON COATED, STAINLESS STEEL
 CABLE.

DUST CAPS WILL BE SUPPLIED WITH THE
 SAME O-RING MATERIAL CALLOUT AS NIPPLE

Dust Plug and Dust Cap Ordering Information:

Dust Plug Part No.		Dust Cap Part No.	
Size	Coupler	Size	Nipple
-03	94303(X)	-03	94403(X)
-04	94304(X)	-04	94404(X)
-06	94306(X)	-06	94406(X)
-08	94308(X)	-08	94408(X)
-12	94312(X)	-12	94412(X)
-16	94316(X)	-16	94416(X)
-20	94320(X)	-20	94420(X)

In place of (X) add the following dash numbers as required for material:

- | | |
|-------------------|--------------------------|
| -1 304 CRES | -5 6061 ALUM |
| -2 316 CRES | -6 7075 ALUM |
| -3 2024 ALUM | -7 Customer Requirements |
| -4 2024/6061 ALUM | -8 625 Inconel™ |

Dust plugs and caps are permanently attached to the proper coupling half with a flexible nylon coated stainless cable.

Design Data:

Body Size	Air Inclusion C.C.	Spillage C.C.
-03	.003	.002
-04	.003	.002
-06	.005	.003
-08	.011	.006
-12	.020	.010
-16	.023	.012
-20	.030	.015

Temperature Range: -65°F. to +325°F. (depending on O-Ring material). Nipple Relief Valve (Optional): Cracking pressure range from 10 to 200 PSIG.



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