

FULL-BORE SERIES COUPLER 3/8" CAPACITY

**IMPORTANT: READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
OPERATING OR SERVICING THIS EQUIPMENT.**

OPERATING PRECAUTIONS

WARNINGS:

- DO NOT EXCEED THE AIR PRESSURE OR TEMPERATURE RATINGS OF THIS COUPLER AS SPECIFIED.
- SHUT OFF AND RELIEVE AIR SUPPLY BEFORE DISASSEMBLING COUPLER.

PRIMARY PRESSURE
250 PSI MAX. (17 BAR MAX.)

TEMPERATURE RANGE
-40°F to +250°F (-40°C to 121°C)

DISASSEMBLY

Using 22814 collet clamp (available at extra cost) clamp on the 22054 retainer ring. Place collet clamp in a vise and using a wrench on hex of adapter, unthread and remove adapter from housing. Removing adapter will give access to the rear valve seat and the ball 22043.

If the 22054 retainer loosens from housing instead of the adapter, remove 22054 retainer. Slip 22053 ring back on sleeve exposing pin 22044 and drive pin out of sleeve. Insert a connector into coupler releasing sleeve, two balls Y16-103, four balls Y16-107, spring 22051 and sleeve. Using brass blocks and a vise, clamp on housing and remove adapter, rear valve seat, ball 22043, front valve seat, spring 22050 and retainer 22047.

ASSEMBLY

Apply grease to four balls Y16-107 and insert into ball seats of housing. Assemble spring 22051 and sleeve to housing and secure with retainer 22054. Torque retainer 30 to 40 ft. lbs. Apply a light film of grease to valve seats and ball 22043. Assemble retainer 22047 to housing, shank first (see illustration). Assemble front valve seat to spring 22050 and insert into housing. Apply grease to two balls Y16-103 and insert into ball seats in sleeve assembled to housing. Assemble knurled sleeve over housing. Press front valve seat down into housing and insert pin 22044 thru sleeve and housing being certain pin passes in front of valve seat holding valve seat down into housing. Assemble rear ball seat to adapter. Assemble ball 22043 into housing, insuring groove across ball is aligned with pin 22044 thru housing (see illustration).

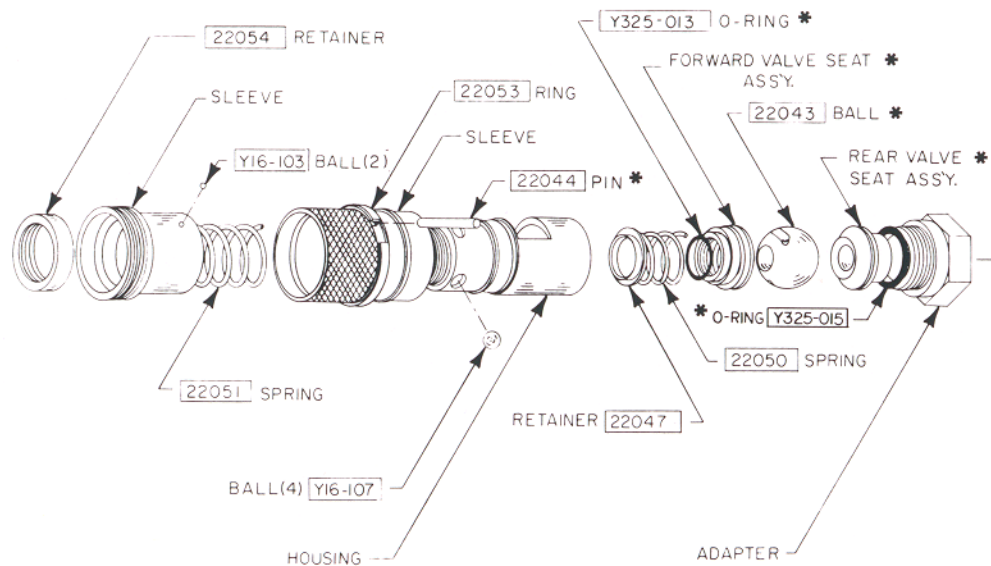
Assemble rear valve seat and adapter to housing and tighten. NOTE: Apply thread adhesive to threads of adapter and torque to housing 30 to 40 ft. lbs.

SERVICE HINT

If the front or rear valve seat or the Y325-013 o-ring becomes worn after prolonged use, there will be a continuous leak from the connector end of the coupler.

* ORDER SERVICE REPAIR KIT NO.
22818. INCLUDES:

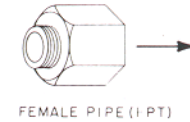
22043 BALL
22044 PIN
Y325-013 O-RING
Y325-015 O-RING
REAR VALVE SEAT ASS'Y
FORWARD VALVE SEAT ASS'Y



+ MODEL 23203-300 (3/8 NPTF) ONE PIECE
ADAPTER IS AVAILABLE.

WHEN ASSEMBLING ADAPTER TO THE COUPLER APPLY THREAD
ADHESIVE, SUCH AS LOCTITE 271, TO 5/8-24 THREAD AND TORQUE
TO 35 FT. LBS.

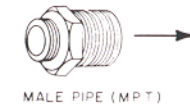
MODEL	ADAPTER	COUPLER	FITTING END
23203-002	22036-002	23203-000	1/4 FPT
23203-004	22036-004	23203-000	1/2 FPT



FEMALE PIPE (FPT)

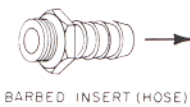
+ 23203-300 ONE PIECE 3/8 FPT

23203-012	22036-012	23203-000	1/4 MPT
23203-013	22036-013	23203-000	3/8 MPT
23203-014	22036-014	23203-000	1/2 MPT



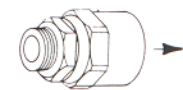
MALE PIPE (MPT)

23203-022	22036-022	23203-000	1/4 HOSE
23203-023	22036-023	23203-000	5/16 HOSE
23203-024	22036-024	23203-000	3/8 HOSE
23203-025	22036-025	23203-000	1/2 HOSE
23203-027	22036-027	23203-000	1/4 PUSH ON
23203-028	22036-028	23203-000	3/8 PUSH ON
23203-029	22036-029	23203-000	1/2 PUSH ON



BARBED INSERT (HOSE)

MODEL	ADAPTER	COUPLER	HOSE SIZE
23203-042	22036-042	23203-000	1/4 x 1/2 O.D.
23203-044	22036-044	23203-000	1/4 x 5/8 O.D.
23203-053	22036-053	23203-000	5/16 x 5/8 O.D.
23203-062	22036-062	23203-000	3/8 x 5/8 O.D.
23203-063	22036-063	23203-000	3/8 x 1 1/16 O.D.



REUSABLE (HOSE)

COUPLER
TYPE
VARIATION
SERIES SIZE
23XXX XXX
INSERT VARIATIONS
INSERT TYPE
O-INDICATES ADAPTER MODEL
NUMBER INDICATES
ONE PIECE MODELS

23203-XXX 3/8" CAPACITY FULL-BORE COUPLER