

# OPERATOR'S MANUAL

23204-XXX

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

AIR SYSTEMS COMPONENTS

REVISED: 7-10-86

## FULL-BORE SERIES COUPLER 1/2" 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 22073 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 22067.

If the 22073 retainer loosens from housing instead of the adapter, remove 22073 retainer. Slip 22071 ring back on sleeve exposing pin 22068 and drive pin out of sleeve. Insert a connector into coupler releasing sleeve, two balls Y16-103, four balls Y16-107, spring 22059 and sleeve. Using brass blocks and a vise, clamp on housing and remove adapter, rear valve seat, ball 22067, front valve seat, spring 22058 and retainer 22063.

### ASSEMBLY

Apply grease to four balls Y16-107 and insert into ball seats of housing. Assemble spring 22059 and sleeve to housing and secure with retainer 22073. Torque retainer 30 to 40 ft. lbs. Apply a light film of grease to valve seats and ball 22067. Assemble retainer 22063 to housing, shank first (see illustration). Assemble front valve seat to spring 22058 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 22068 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 22067 into housing, insuring groove across ball is aligned with pin 22068 thru housing (see illustration).

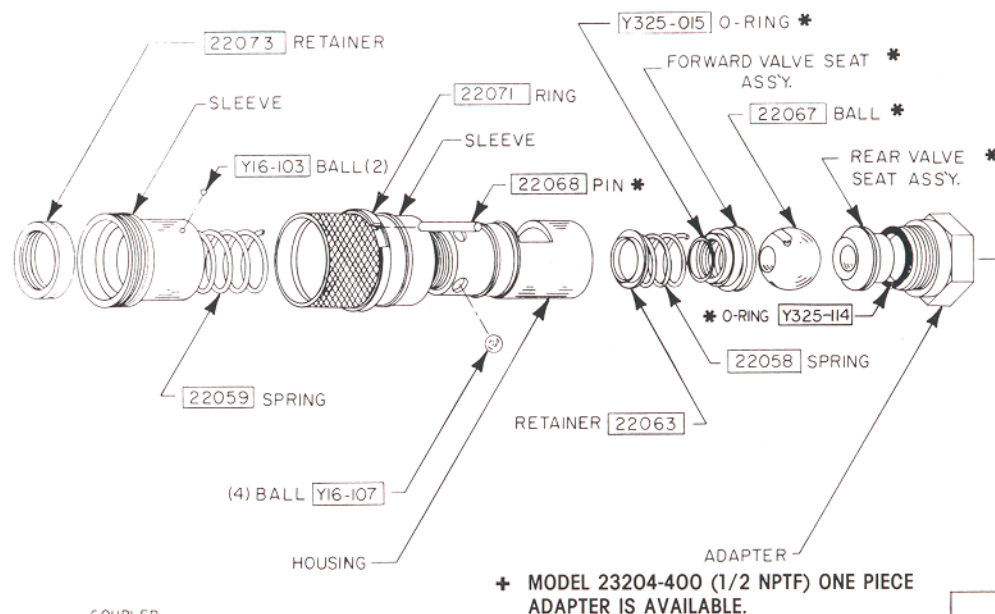
Assemble rear valve seat and adapter to housing and tighten. NOTE: Apply thread adhesive to threads of adapter and torque to housing 30 to 40 ft. lbs.

### SERVICE HINT

If the front or rear valve seat or the Y325-015 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. 22819.  
INCLUDES:

22067 BALL  
22068 PIN  
Y325-015 O-RING  
Y325-114 O-RING  
REAR VALVE SEAT ASS'Y  
FORWARD VALVE SEAT ASS'Y.



COUPLER

TYPE

VARIATION

SERIES SIZE

23XXX-XXX

INSERT VARIATIONS

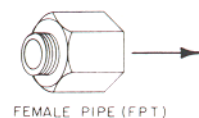
INSERT TYPE

O- INDICATES ADAPTER MODEL

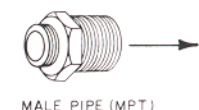
NUMBER INDICATES ONE PIECE MODELS

## 23204-XXX 1/2" CAPACITY FULL-BORE COUPLER

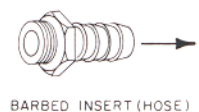
WHEN ASSEMBLING ADAPTER TO THE COUPLER APPLY THREAD ADHESIVE, SUCH AS LOCTITE 271, TO 5/8-24 THREAD AND TORQUE TO 35 FT. LBS.



MODEL	ADAPTER	COUPLER	FITTING END
23204-003	22036-003	23204-000	3/8 FPT
23204-005	22036-005	23204-000	3/4 FPT
+ 23204-400		ONE PIECE	1/2 FPT



23204-013	22036-013	23204-000	3/8 MPT
23204-014	22036-014	23204-000	1/2 MPT
23204-015	22036-015	23204-000	3/4 MPT



23204-024	22036-024	23204-000	3/8 HOSE
23204-025	22036-025	23204-000	1/2 HOSE
23204-026	22036-026	23204-000	3/4 HOSE
23204-028	22036-028	23204-000	3/8 PUSH ON
23204-029	22036-029	23204-000	1/2 PUSH ON



MODEL	ADAPTER	COUPLER	HOSE SIZE
23204-064	22036-064	23204-000	3/8x3/4 O.D.
23204-072	22036-072	23204-000	1/2x7/8 O.D.