



NEW YORK AIR BRAKE CORPORATION
A KNORR BRAKE COMPANY
748 Starbuck Avenue, Watertown, New York 13601

TEST SPECIFICATION NYT-772-C

CODE OF TESTS FOR TESTING NY-3 THREE-POSITION
RETAINING VALVE PORTION PC. 578776 (DWG. N-9598)

ISSUE NO. 2

SPEC. NYT-772-C

DATE: OCTOBER 29, 1980

3 PAGES

Diagrammatic view of retaining valve and arrangement of test rack are shown on attached Drawing NYT-772.

In order to properly test the Three-Position Retaining Valve, the following items must be available:

AB-55 Test Plate, Complete	Pc. TA-2232-C	(516966)
or		
AB-77 Test Plate, Complete	Pc. TA-2390	(522599)
Pipe Bracket	Pc. PR-269	
Gasket	Pc. PR-268	
1/2" x 3/8" Reducing Bushing	Pc. PF-73	(4740)
3/8" x 6" Pipe Nipple	Pc. PF-594	(29711)
3/8" Gripseal Straight Fitting	Pc. N-8509	(563569)
3/8" Fitting Gasket	Pc. BC-8359	(93839)
2 - 3/8" x 1" Hex Hd. Cap Screws	Pc. OC-174	(7978)

NOTE: All tests prescribed in this code must be made with the vent protector intact.

Main reservoir feed valve must be set to close at 70 psi pressure.

Supply pressure must be at least 90 psi.

TEST NO. 1
CAPACITY AND LEAKAGE

Commence test with all cocks closed and valve "A" handle in position No. 8.

Before connecting the NY-3 Retaining Valve Portion, Pc. N-9598 to the test rack, turn the handle back and forth between Direct Ex. and SLOW DIRECT (S.D.) positions and note that a positive quadrant detent can be felt in each of the three positions. The absence of this "feel" indicates absence of detent latch pin or spring.

Connect the retaining valve to the test rack as shown on the attached Drawing NYT-772. Open cock 16 and move valve "A" handle to position No. 1 and charge the brake pipe reservoir to 70 psi.

SECTION "A" - DIRECT EXHAUST (EX.) CAPACITY

Move retaining valve handle to Direct Exhaust (EX) position and move valve "A" handle to position No. 3.

Open cock 19 and note the time required for the brake pipe reservoir pressure to reduce from 70 to 10 psi. This time must not exceed 3 seconds.

SECTION "B" - CASTING AND KEY "O"- RING LEAKAGE

Move retaining valve handle to Slow Direct (SD) exhaust position and move valve "A" handle to position No. 1.

Coat the entire valve and around top of key with soap suds. No leakage is permitted. Disregard blow of air from the exhaust port.

SECTION "C" - SLOW DIRECT EXHAUST CAPACITY

With the retaining valve handle in Slow Direct (SD) exhaust position, move valve "A" handle to position No. 3 and note that the brake pipe reservoir pressure reduces from 60 to 40 psi in not less than 17 seconds nor more than 22 seconds.

SECTION "D" - HIGH PRESSURE RETAIN CAPACITY

Move the retaining valve handle to High Pressure Retain (HP) position. Move valve "A" handle to position No. 1 and charge the brake pipe reservoir to 70 psi pressure.

Coat around the key with soap suds to detect "o" - ring leakage. No leakage is permitted.

Move valve "A" handle to position No. 3 and note that brake pipe reservoir pressure reduces from 60 to 40 psi in not less than 33 seconds nor more than 43 seconds.

SECTION "E" - VALVE CLOSING PRESSURE AND "O" - RING LEAKAGE

With the retaining valve handle in High Pressure Retain (HP) position, open cock 20 and close cock 19. After the air ceases to exhaust, note that retained pressure, as indicated on the quick action chamber reservoir gage, is not less than 16 psi nor more than 22 psi.

Partly open cock 15 and reduce quick action chamber reservoir pressure to 3 psi below the actual closing point, then close cock 15. Observe the quick action chamber reservoir gage and note the drop in pressure which must not exceed 1 psi in 30 seconds.

At the completion of tests, open cock 15, move valve "A" handle to position No. 8. After all pressure is drained, close all cocks.

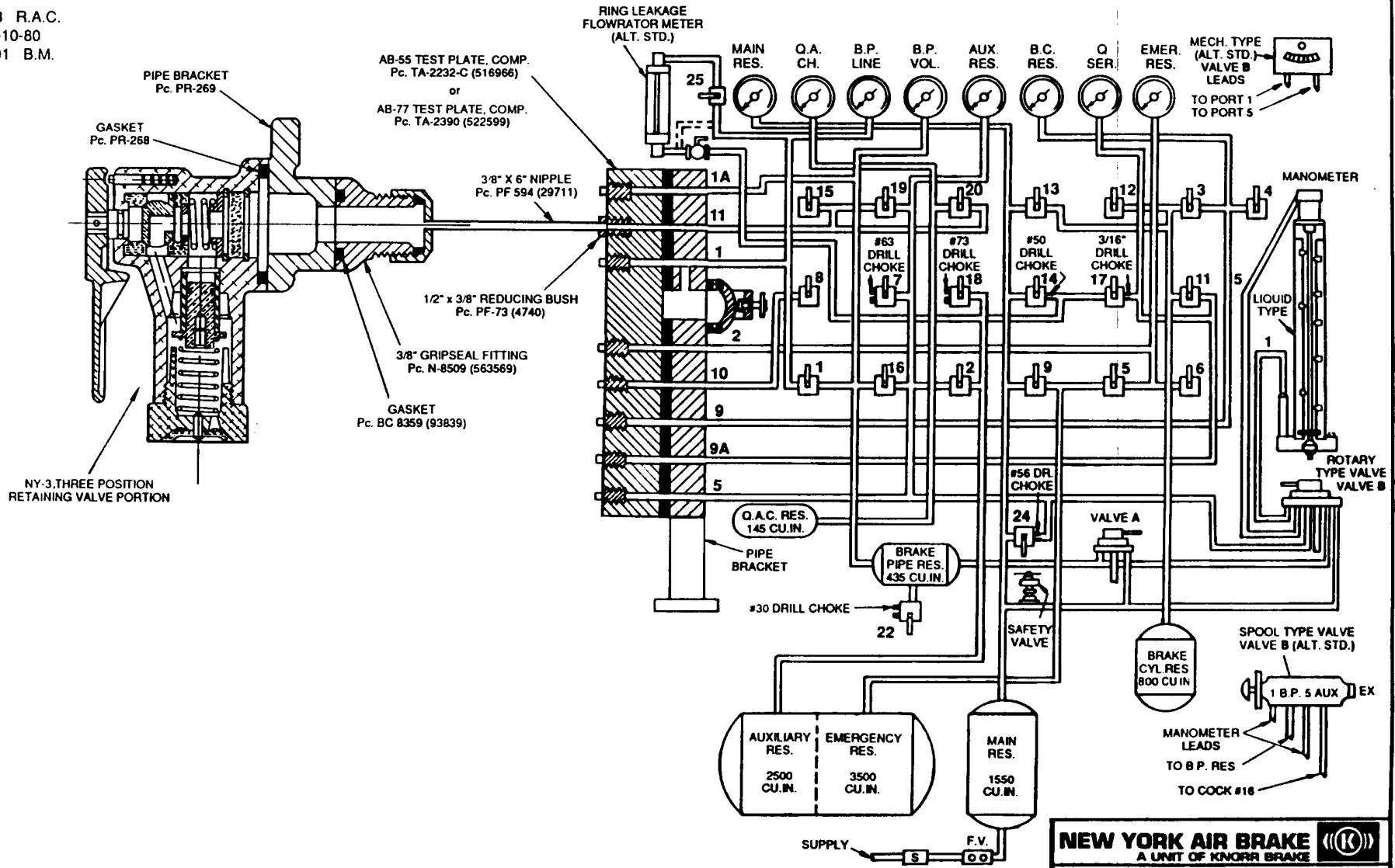
ENGINEERING DEPARTMENT


REVISION PAGE

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NEW YORK AIR BRAKE 
 A UNIT OF KNORR BRAKE

**DIAGRAMMATIC VIEW AND ARRANGEMENT
 OF AB TEST RACK FOR TESTING TYPE NY-3,
 THREE POSITION RETAINING VALVE**

PIECE NO. 578776	DRAWING NO. NYT-772
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