

## AIR PREPARATION UNITS

| Symbol | Description  |
|--------|--|
|        | FILTER/SEPARATOR with manual drain                               |
|        | FILTER/SEPARATOR with automatic drain                            |
|        | OIL REMOVAL FILTER   |
|        | AUTOMATIC DRAIN  |
|        | LUBRICATOR less drain  |
|        | LUBRICATOR with manual drain                                     |
|        | LUBRICATOR with automatic filling                                |
|        | AIR LINE PRESSURE REGULATOR adjustable, relieving                |
|        | AIR LINE PRESSURE REGULATOR pilot controlled, relieving          |
|        | FILTER/REGULATOR (piggyback) Manual Drain Relieving (With Gauge) |
|        | FILTER/REGULATOR (piggyback) Auto Drain Relieving                |
|        | AIR LINE COMBO F-R-L simplified                                  |

## PNEUMATIC VALVES

| Symbol | Description  |
|--------|--------------|
|        | CHECK        |
|        | FLOW CONTROL |
|        | RELIEF VALVE |

## PNEUMATIC VALVES (Cont'd)

| Symbol | Description  |
|--------|--|
|        | 2-POSITION 2-WAY   |
|        | 2-POSITION 3-WAY   |
|        | 2-POSITION 4-WAY   |
|        | 2-POSITION, 4-WAY 5-PORTED   |
|        | 3-POSITION, 4-WAY ports closed, center pos.                              |
|        | 3-POSITION, 4-WAY 5-PORTED cyl. ports open to exhaust in center position |
|        | QUICK EXHAUST  |
|        | SHUTTLE  |

## VALVE ACTUATORS

| Symbol | Description                                  |
|--------|--|
|        | MANUAL general symbol                        |
|        | PUSH BUTTON                                  |
|        | LEVER  |
|        | PEDAL OR TREADLE                             |
|        | MECHANICAL cam, toggle, etc.                 |
|        | SPRING                                       |
|        | DETENT line indicates which detent is in use |

## VALVE ACTUATORS (Cont'd)

| Symbol | Description  |
|--------|--|
|        | SOLENOID   |
|        | INTERNAL PILOT SUPPLY  |
|        | REMOTE PILOT SUPPLY  |
|        | AND/OR COMPOSITE solenoid and pilot or manual override           |
|        | AND/OR COMPOSITE solenoid and pilot or manual override and pilot |

## LINES AND FUNCTIONS

| Symbol | Description                                     |
|--------|---|
|        | solid line—MAIN LINE                            |
|        | dashed line—PILOT LINE                          |
|        | dotted line—EXHAUST OR DRAIN LINE               |
|        | center line—ENCLOSURE OUTLINE                   |
|        | LINES CROSSING (90° intersection not necessary) |
|        | LINES JOINING (90° intersection not necessary)  |
|        | LINES JOINING                                   |
|        | FLOW DIRECTION hydraulic medium                 |
|        | FLOW DIRECTION gaseous medium                   |
|        | ENERGY SOURCE                                   |
|        | LINE WITH FIXED RESTRICTION                     |
|        | LINE WITH ADJUSTABLE RESTRICTION                |
|        | FLEXIBLE LINE                                   |
|        | PLUGGED PORT, TEST STATION, POWER TAKE-OFF      |
|        | QUICK DISCONNECT WITHOUT CHECKS                 |
|        | QUICK DISCONNECT WITH CHECKS                    |
|        | QUICK DISCONNECT WITH ONE CHECK                 |