SAE INTERNATIONAL

AEROSPACE RECOMMENDED PRACTICE

ARP1482 REV. B

Issued 1978-12
Revised 1999-10
Reaffirmed 2013-08

Superseding ARP1482A

Recommendations for Fuel and Oil System Schematics

RATIONALE

ARP1482B has been reaffirmed to comply with the SAE five-year review policy.

1. SCOPE:

This document recommends and sets forth a set of symbols representing the components making up aircraft fuel and oil systems. The intended result is uniformity in system schematics so that they may be easily understood throughout the aerospace industry.

1.1 Purpose:

This document defines a standard set of symbols for use in functional schematics of aircraft fuel and oil systems and components.

2. REFERENCES:

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AS1290	Graphic Symbols for Aircraft Hydraulic and Pneumatic Systems
AIR1615	Thesaurus for Fuel System Components
AIR1660	Fuel Level Control Valves/Systems

3. SCHEMATIC:

For purposes of this document, a schematic is defined as a diagram descriptive of the functions and flow paths of a system or component. Such a schematic is intended only to provide a general understanding of the system or component depicted in an easily understood format. As such, portrayal of the physical positions and aspects of the components is not required and may, in fact, be undesirable.

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4. COMPONENTS:

   The following figures set forth the basic component symbols, as well as modifiers that specify drives and accessories.

5. SPECIAL COMPONENTS:

   It is recognized that most systems will require the occasional use of unique components not described in this document. Where possible, these should be represented by combinations of the symbols herein. The resulting combination for a given component should be surrounded by a dashed line, if necessary to make it clear that it is a single component. Several examples of composite symbols are presented in the figures.

6. PLUMBING:

   Tubing and hoses should be represented by solid double lines. Each line should be identified as to function by use of the appropriate cross-hatch code described in the figures. It is recommended that line size (outside diameter for tubing, inside diameter for hose) be specified in the format ØX.XX, suffixed with the appropriate material/type letter code listed in this document.

7. LEGENDS:

   It is recommended that each system schematic contain a legend identifying the nomenclature of all symbols used. Numerical codes should be used to relate the symbols in the legend to the appropriate locations on the schematic.

8. COMPONENT DRAWINGS:

   It is recommended that each component drawing include a schematic of the component represented thereon.

9. OTHER SYMBOLS AND SYSTEMS:

   Refer to SAE AS1290 for symbols relevant to actuators, control valves, and other components associated with hydraulic and pneumatic systems.

10. NOMENCLATURE:

    Refer to SAE AIR1660 and AIR1615 for definitions of the nomenclature used herein.

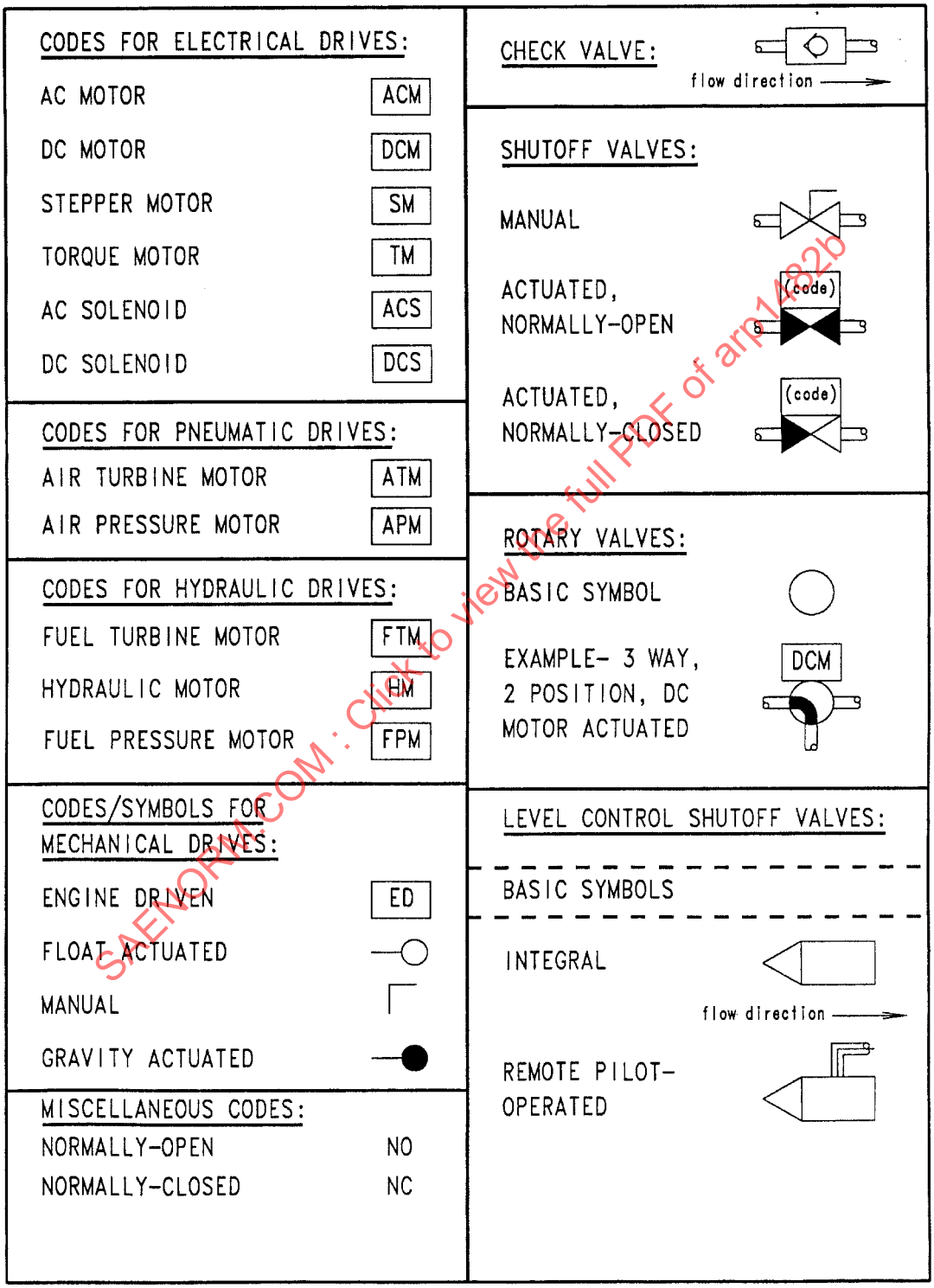
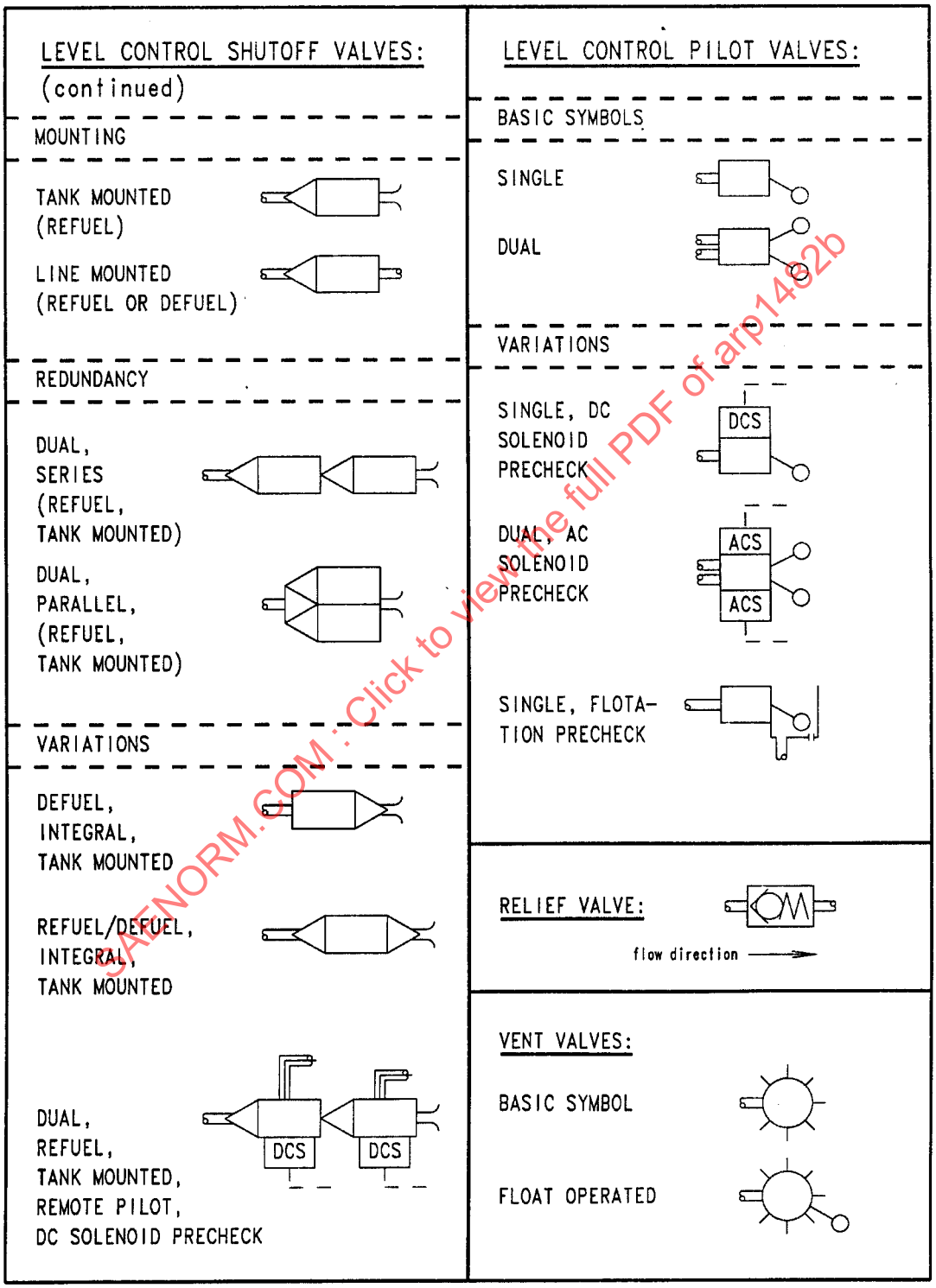


FIGURE 1



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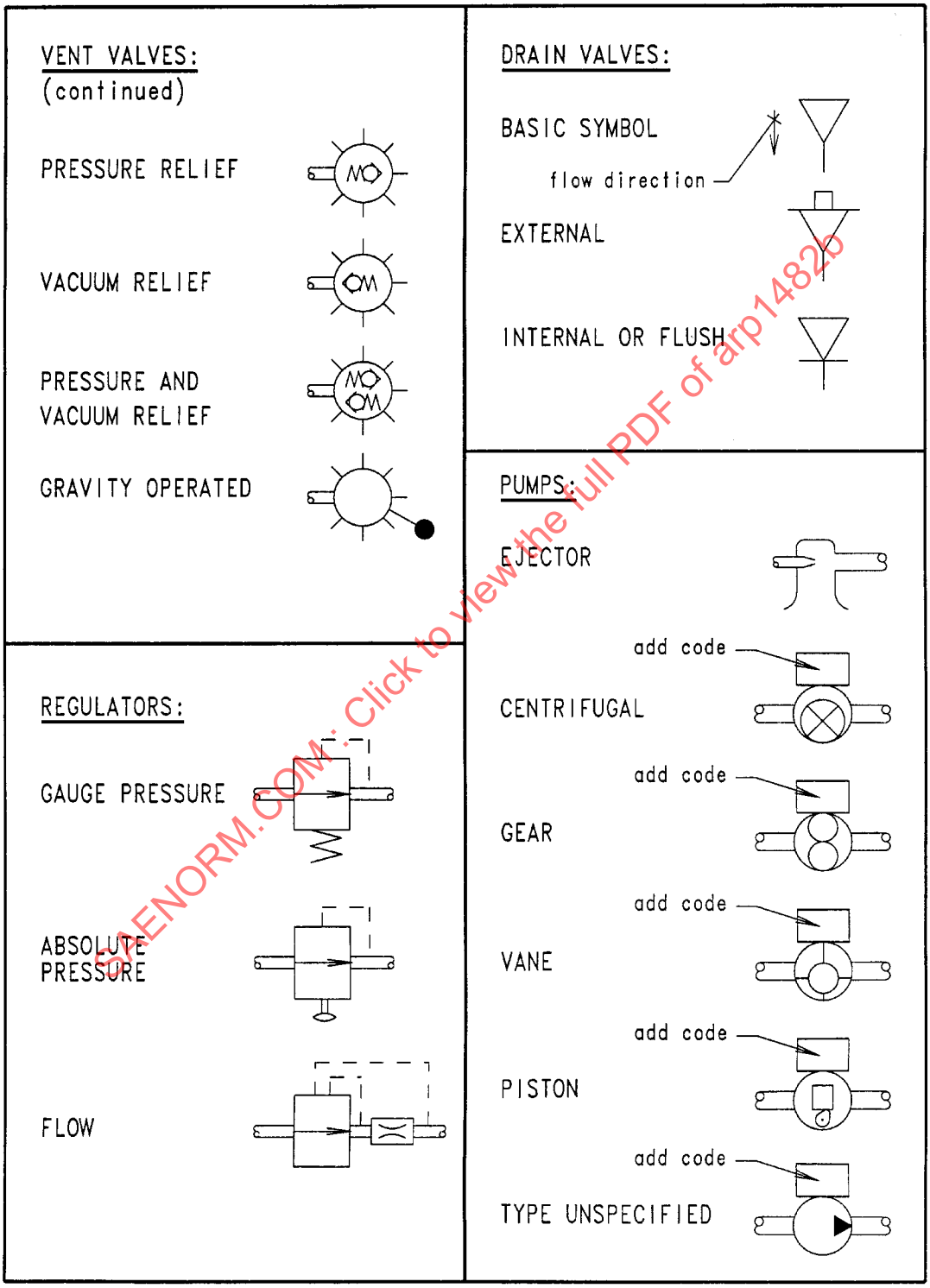

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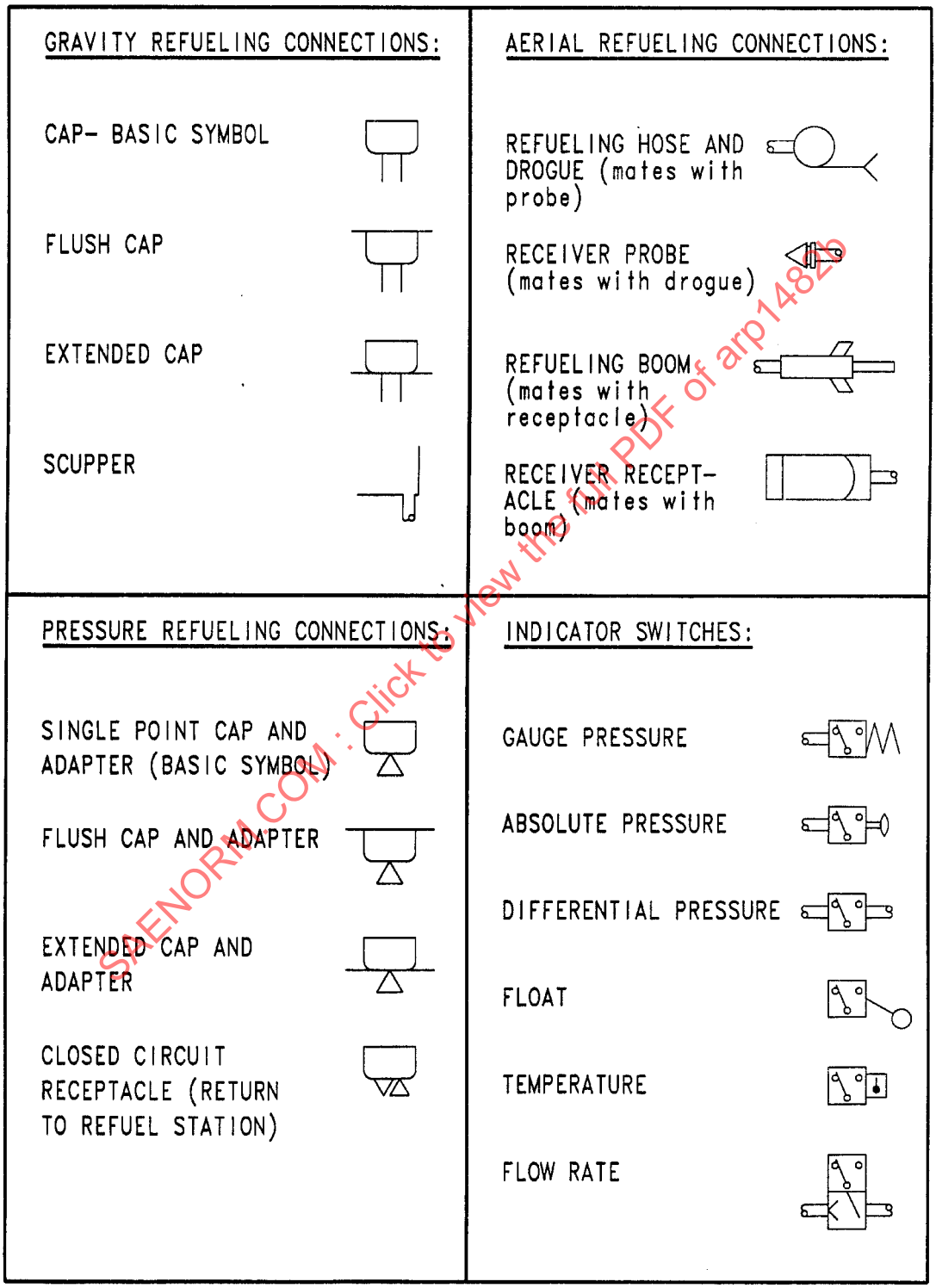

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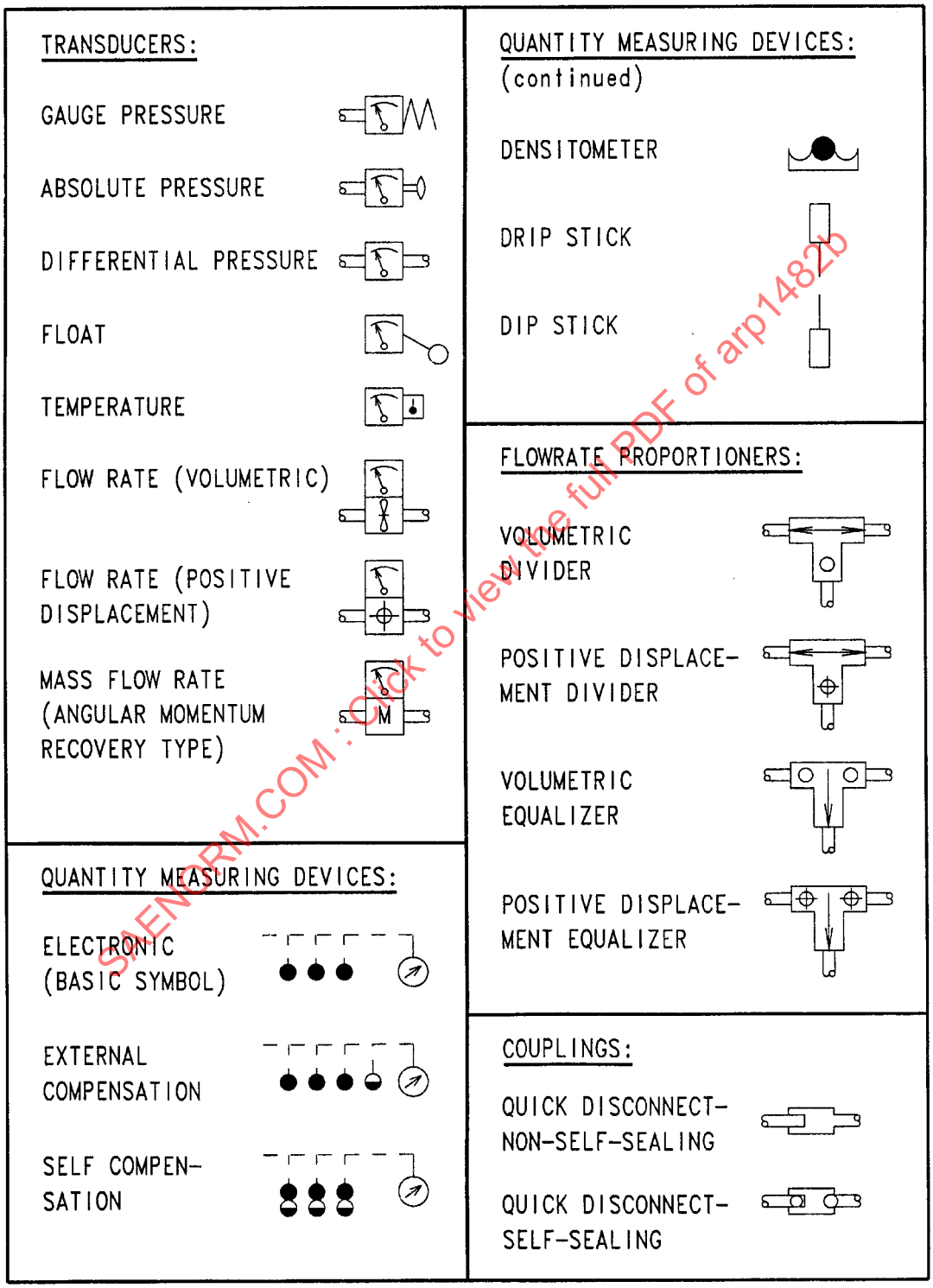

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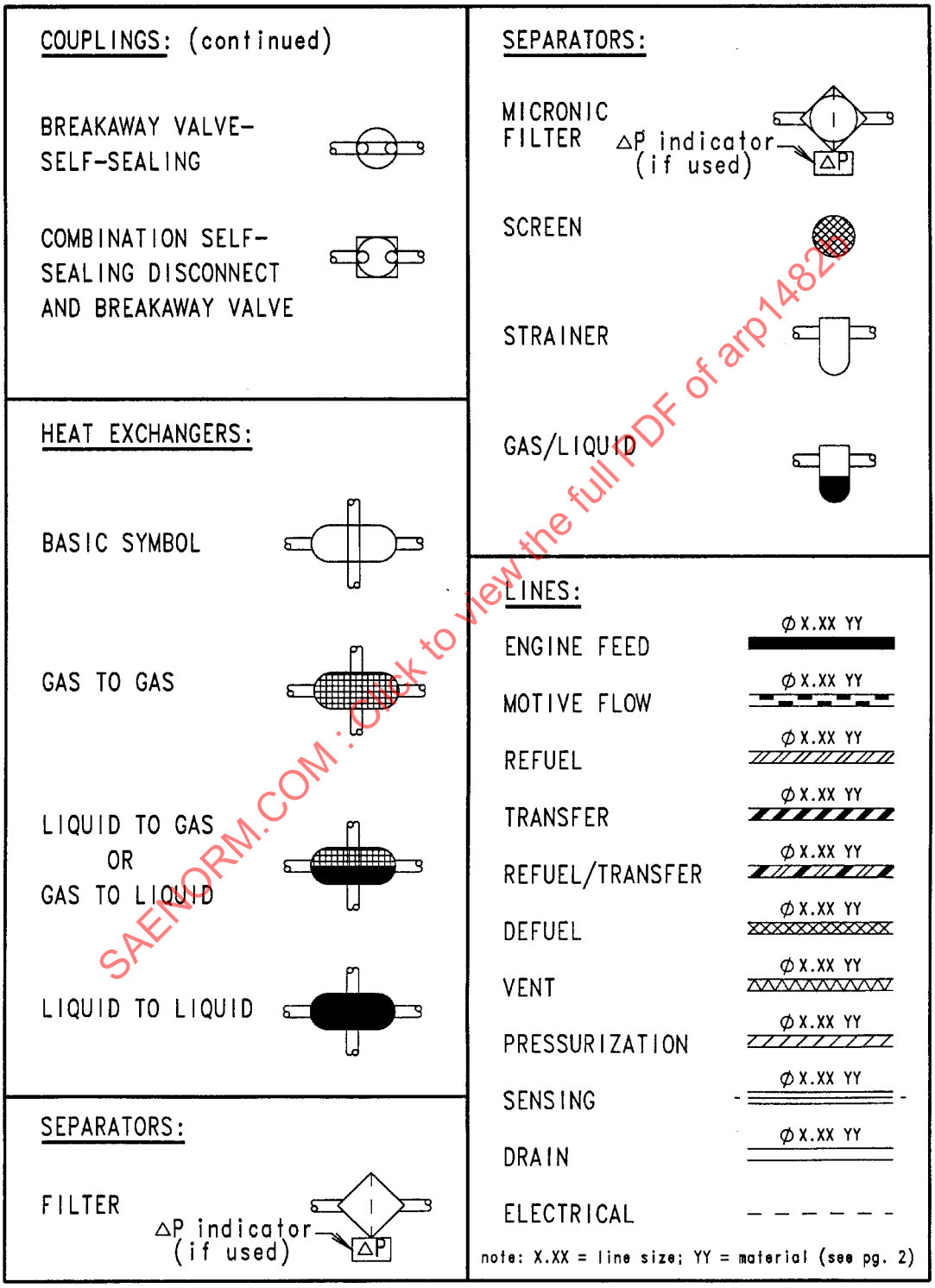

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