Specifications for Domestic Steel Scrap

Steel Scrap must satisfy the following general conditions:

- Steel Scrap shall be free of dirt, non-ferrous metals or foreign materials of any kind and excessive rust and corrosion.
- Steel Scrap shall not include Off-Grade material.
- Steel Scrap shall not include Residual Alloys exceeding the following percentages:

Nickel	……	0.45%
Chromium	……	0.20%
Molybdenum	……	0.10%
Manganese	……	1.65%

  The combined residuals other than Manganese shall not exceed a total of 0.60%
- Steel Scrap shall be free from airtight, closed materials or explosives such as gas cylinders, shock absorbers, bombs, bullets etc.

Classification and Specifications

Steel Scrap is classified as Grade A, Grade B & Grade C. Specification for each of the above classification is given below.

Steel Scrap which does not fall under any of the above classifications shall be treated as **Off-Grade** scrap and such scrap shall not be accepted.

Each piece of scrap should not be more than 1,000 Kgs.

GRADE A

- Wrought Iron and/or Steel scrap 6mm and over in thickness. Individual piece not over 1,500mm x 1,000mm prepared in a manner to ensure compact charging.
- Steel pipes whose diameter is more than 300mm are to be cut open in two pieces (Length – 1,000mm maximum) along the length of the pipes.
- Steel pipes whose diameter is less than 300mm are to be cut into 1,000mm length (Maximum)
- Steel Plates are to be cut to sizes not more than 1,000mm x 500mm.
- Shredded Scrap: Homogeneous iron and steel scrap magnetically separated, originating from automobiles, miscellaneous bailing and sheet scrap. Average density 0.80 – 1.12 tons per cubic meter.
- Cast Iron Scrap not over 1500mm x 1000mm x 600mm in size. Oversize scrap shall be cut, drop-broken or crushed to satisfy the above size. Self weight of each piece to be not more than 1,000 Kg per piece.
- Cast Iron Scrap is to be separated from Steel Scrap and to be supplied separately apart from Steel Scrap.
- Cast Iron such as Cylinder Block and Cylinder Head shall be separated. These are to be free of grease and oil, non-ferrous and non-metallic material and free of all steel parts except cam shafts, valves, valve springs and studs.

GRADE B

- Wrought Iron and/or Steel Scrap, black and galvanized 3mm and over in thickness prepared in a manner to insure compact charging.
- Preparation of Scrap Pipes and plates shall be as for GRADE A.

GRADE C

- Wrought Iron and/or Steel Scrap below 3mm in thickness. This shall also include Steel turnings from machine shops, mild steel bolts, nuts, spare parts etc., sized steel plate from scrapped cars and furniture. It should be free of boring, non-ferrous metals in a free state, scale or excessive oil, badly rusted or corroded stock

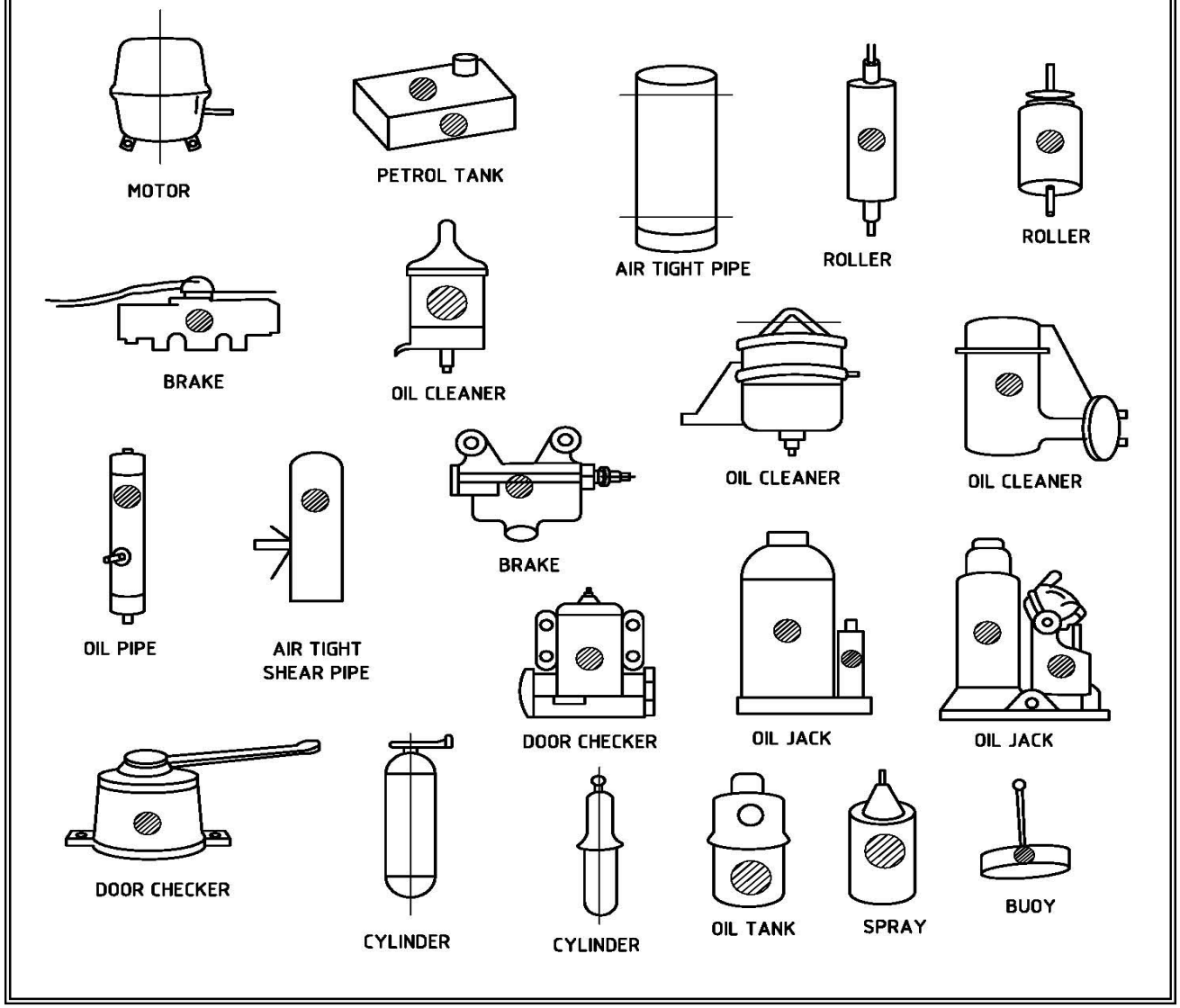
All air-tight materials must be cut in accordance with the following instructions (as per attached drawing)

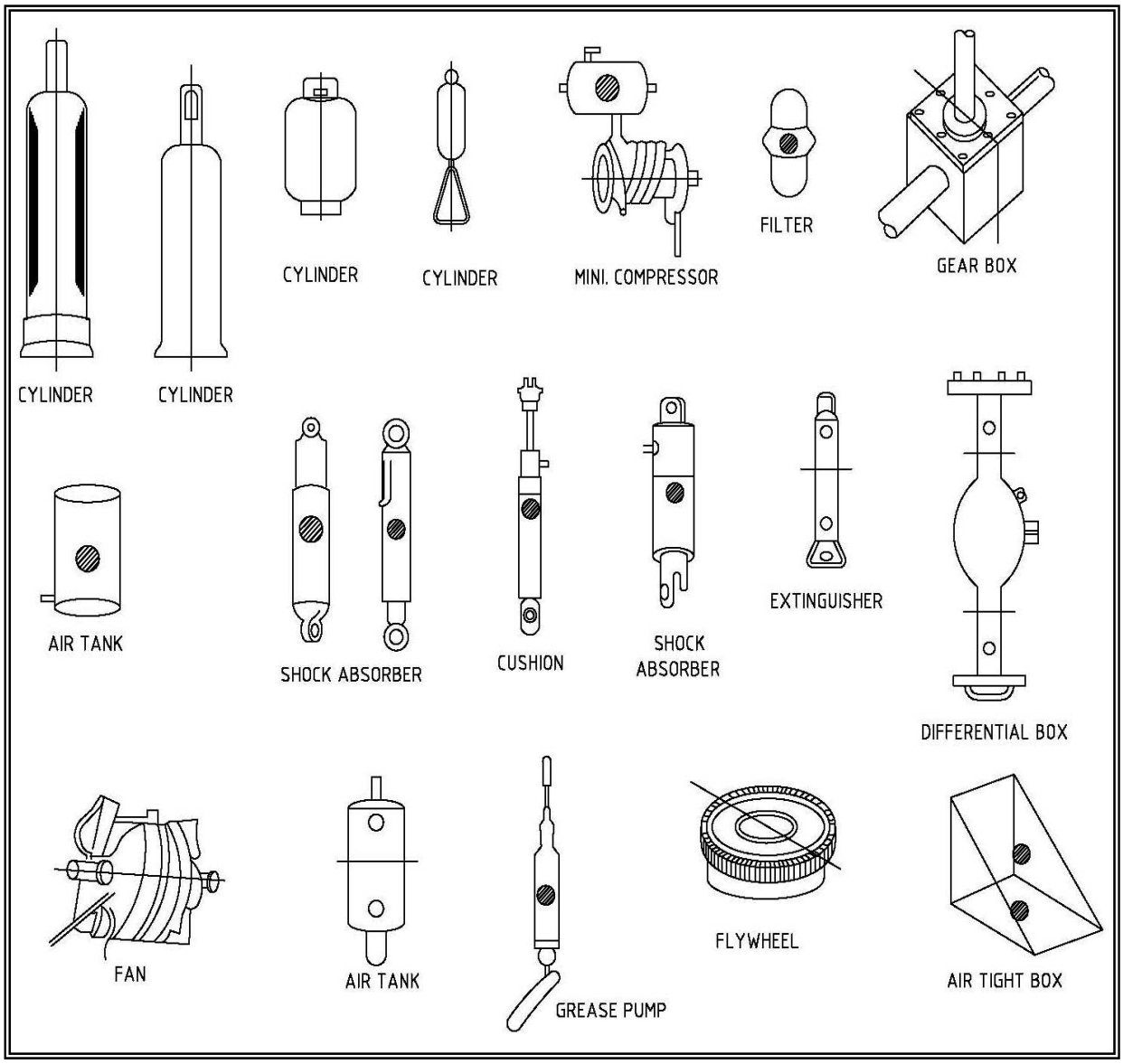
- Cylinder should be cut in length-wise and be made a through hole which exceeds double of its diameter.
- Other air-tight material should be made a through hole which exceeds double of its diameter.
- Long Scrap (Over 700mm) should be made at least two through holes which exceeds double of its diameter.
- If there are some harmful materials such as Gas, Oil, Petrol, Ammonia etc, in the scrap, they must be removed.

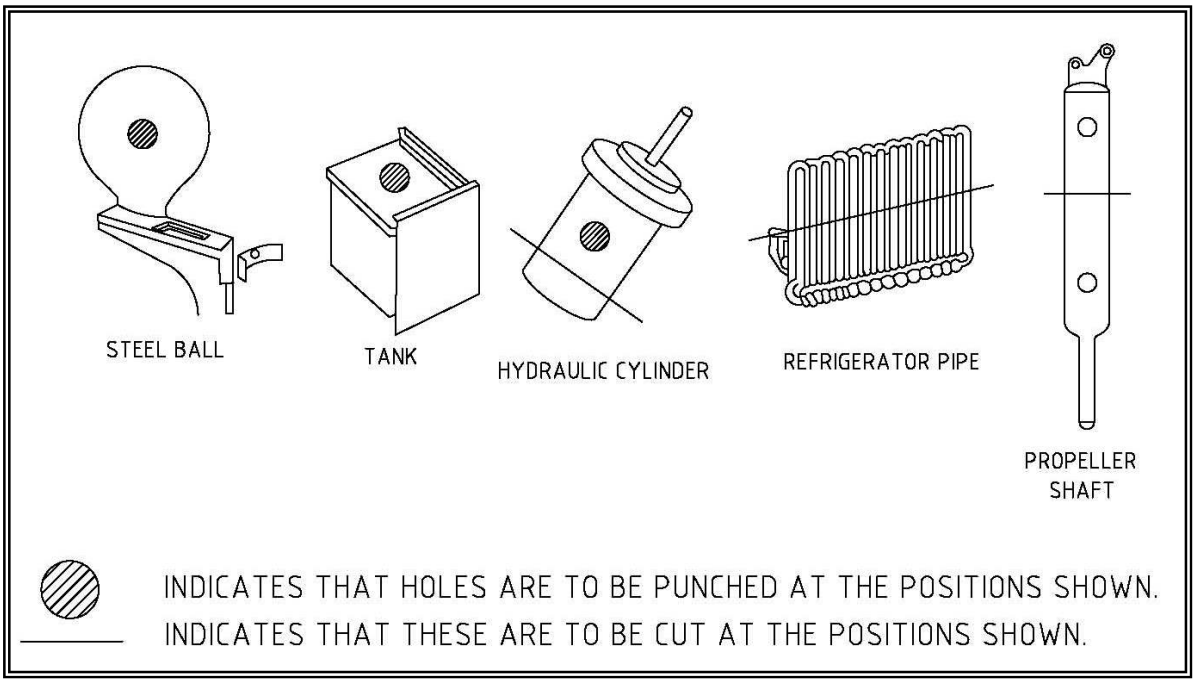
INSPECTION OF SCRAP

Weighing and quality determination of the Steel Scrap shall be done by QASCO at QASCO's Plant site and the same shall be final.

CUTTING PROCEDURE FOR AIR TIGHT MATERIALS




CYLINDER
CYLINDER
CYLINDER
CYLINDER
MINI. COMPRESSOR
FILTER
GEAR BOX
CYLINDER
CYLINDER
AIR TANK
SHOCK ABSORBER
CUSHION
SHOCK ABSORBER
EXTINGUISHER
DIFFERENTIAL BOX
FAN
AIR TANK
GREASE PUMP
FLYWHEEL
AIR TIGHT BOX


STEEL BALL
TANK
HYDRAULIC CYLINDER
REFRIGERATOR PIPE
PROPELLER SHAFT
INDICATES THAT HOLES ARE TO BE PUNCHED AT THE POSITIONS SHOWN.
INDICATES THAT THESE ARE TO BE CUT AT THE POSITIONS SHOWN.