

# इंटरनेट

# मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 15682 (2006, Reaffirmed 2012): Fire Fighting Vehicles and Equipment--Symbols For Operator Controls And Other Display. ICS 13.220.10



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



IS 15682 : 2006

भारतीय मानक

अग्नि शमन वाहन और उपस्कर — प्रचालक नियन्त्रण  
और अन्य प्रदर्शन के प्रतीक

REAFFIRMED  
2012

*Indian Standard*

FIRE FIGHTING VEHICLES AND EQUIPMENT —  
SYMBOLS FOR OPERATOR CONTROLS  
AND OTHER DISPLAY

ICS 13.220.10

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**BUREAU OF INDIAN STANDARDS**  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

September 2006

Price Group 4

## FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Fire Fighting Sectional Committee had been approved by the Civil Engineering Division Council.

A graphical symbol is defined as a visually perceptible figure used to transmit information independently of a language. Attention should be paid when using graphical symbols the meaning of which is dependent on their orientation to avoid misunderstandings.

## Indian Standard

# FIRE FIGHTING VEHICLES AND EQUIPMENT — SYMBOLS FOR OPERATOR CONTROLS AND OTHER DISPLAY

### 1 SCOPE

This standard covers symbols to be used for operator controls and other displays specific to fire fighting vehicles and equipment.

### 2 SYMBOLS

2.1 The basic geometrical shape to distinguish each of the following categories have been given in 3.

- a) Frame, engine and chassis;
- b) Electrical circuits;
- c) Expellants;
- d) Fire pumps;
- e) Tanks and piping;
- f) Pressure vessels;
- g) Aerial appliances; and
- h) Miscellaneous.



2.2 The symbols are intended for reproduction on drawings by hand or machine drafting including template or dry transfer methods.



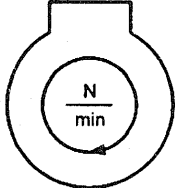
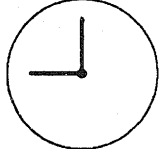
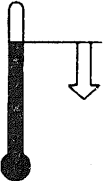
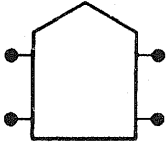
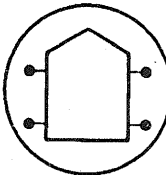
2.3 The meaning of all symbols used shall be defined in a legend in a clear directly understandable form.

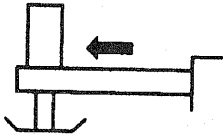
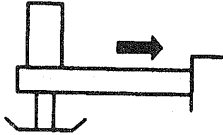
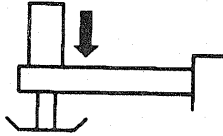
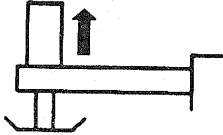
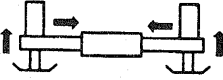

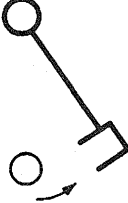
2.4 The sizes of the symbols should all be to the same relative scale on any one drawing and relative to the scale of the drawing itself.

### 3 SYMBOLS FOR FIRE FIGHTING VEHICLES AND EQUIPMENT

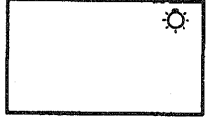

#### 3.1 Frame, Engine and Chassis


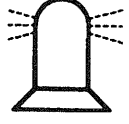
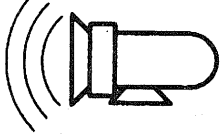
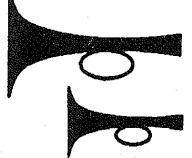

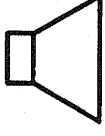
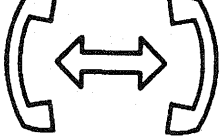


| SI No. | Designation  | Symbol  |
|--------|--------------|---|
| 1      | Engine start |  |
| 2      | Engine stop  |  |

| SI No. | Designation  | Symbol  |
|--------|--|---|
| 3      | Continuous adjustment increase/decrease (rotational)               |    |
| 4      | Continuous adjustment increase/decrease (linear)                   |    |
| 5      | Rotational speed<br>NOTE — <i>N</i> may be replaced with a numeral |   |
| 6      | Clock, time solid (timer)  |  |
| 7      | Auxiliary cooler   |  |
| 8      | Jacking systems  |  |
| 9      | Vehicle stabilized on jacks  |  |




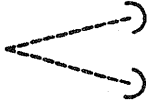
| SI No. | Designation                | Symbol  |
|--------|----------------------------|---|
| 10     | Jacks out                  |    |
| 11     | Jacks in                   |    |
| 12     | Jacks lower                |    |
| 13     | Jacks raise                |    |
| 14     | House jacks                |   |
| 15     | Axle-locking mechanism-on  |  |
| 16     | Axle-locking mechanism-off |  |

### 3.2 Electrical Circuits


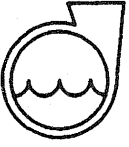
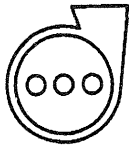
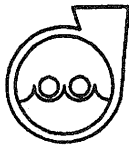
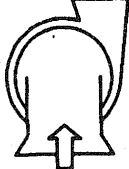
| SI No. | Designation                     | Symbol  |
|--------|---------------------------------|---|
| 1      | Locker light                    |  |
| 2      | Additional hazard warning light |  |

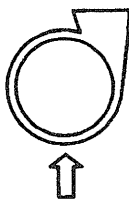
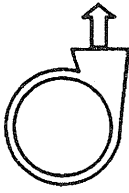
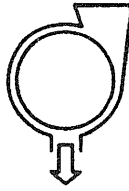




| SI No. | Designation                                   | Symbol  |
|--------|---|---|
| 3      | Reading light                                 |    |
| 4      | Beacon  |    |
| 5      | Siren   |    |
| 6      | Sound signalling device for priority vehicles |   |
| 7      | Antenna (aerial)                              |  |
| 8      | Loudspeaker                                   |  |
| 9      | Intercom                                      |  |
| 10     | Adjustable working light                      |  |
| 11     | Telescoping mast light                        |  |

**3.3 Expellants**

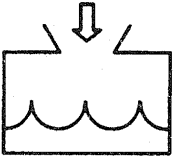
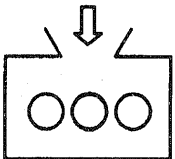
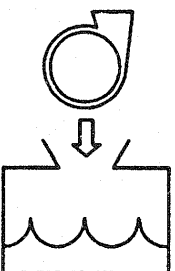
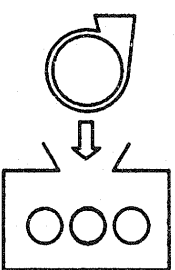
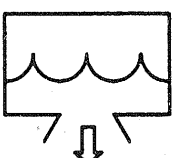
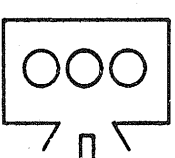
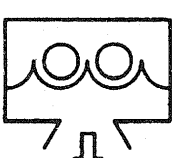
| SI No. | Designation              | Symbol  |
|--------|--------------------------|---|
| 1      | Water                    |  |
| 2      | Foam concentrate         |  |
| 3      | Pre-mix of foam solution |  |
| 4      | Powder                   |  |

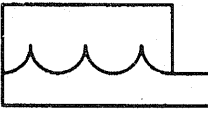


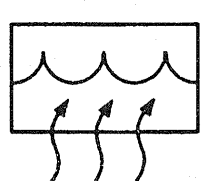
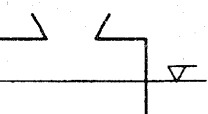
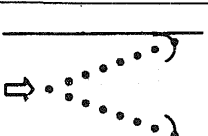
**3.4 Fire Pump**

| SI No. | Designation                | Symbol  |
|--------|----------------------------|---|
| 1      | Fire pumps (general)       |  |
| 2      | Water fire pump            |  |
| 3      | Foam concentrate fire pump |  |
| 4      | Fire pump for pre-mix      |  |
| 5      | Priming fire pump          |  |

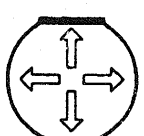
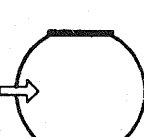
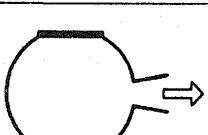
| SI No. | Designation                | Symbol  |
|--------|----------------------------|---|
| 6      | Fire pump intake           |    |
| 7      | Fire pump delivery         |    |
| 8      | Drain fire pump            |   |
| 9      | Engage fire pump           |  |
| 10     | Disengage fire pump        |  |
| 11     | Fire pump, air purge valve |  |
| 12     | Fire pump, by-pass         |  |

## 3.5 Tank and Piping

| Sl No. | Designation                             | Symbol  |
|--------|---|---|
| 1      | Water tank fill                         |    |
| 2      | Foam concentrate tank fill              |    |
| 3      | Water tank fill by fire pump            |   |
| 4      | Foam concentrate tank fill by fire pump |  |
| 5      | Water tank drain                        |  |
| 6      | Foam concentrate tank drain             |  |
| 7      | Pre-mix tank drain                      |  |

| Sl No. | Designation                  | Symbol  |
|--------|------------------------------|---|
| 8      | Water tank outlet            |    |
| 9      | Foam concentrate tank outlet |    |
| 10     | Pre-mix tank outlet          |    |
| 11     | Tank heater                  |    |
| 12     | Level indicator (fluid)      |   |
| 13     | Purging/piping (pressurized) |  |

## 3.6 Pressure Vessels

| Sl No. | Designation                  | Symbol  |
|--------|------------------------------|---|
| 1      | Pressure vessel              |  |
| 2      | Pressurizing pressure vessel |  |
| 3      | Outlet of pressure vessel    |  |

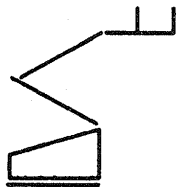
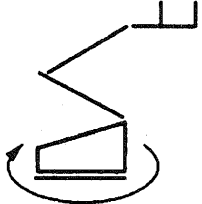
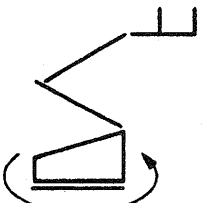
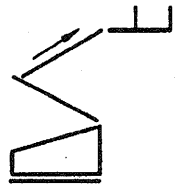
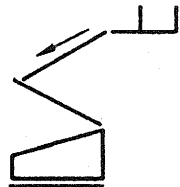
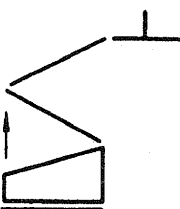
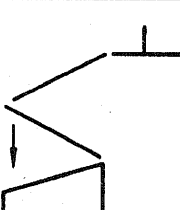


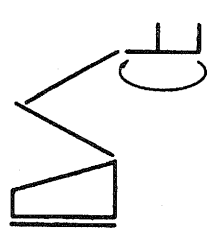
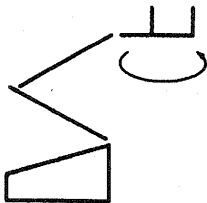
| Sl No. | Designation                      | Symbol |
|--------|----------------------------------|--------|
| 4      | Drain of pressure vessel         |        |
| 5      | Decompression of pressure vessel |        |
| 6      | Pressure regulation              |        |
| 7      | Fluidizing of pressure vessel    |        |
| 8      | Purging pressure vessel          |        |
| 9      | Gas cylinder under pressure      |        |

### 3.7 Aerial Appliances

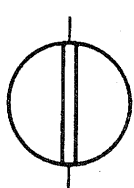
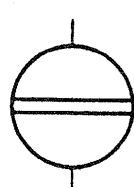
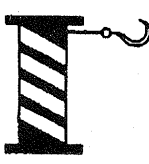
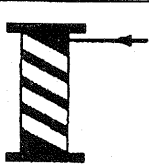

| Sl No. | Designation            | Symbol |
|--------|------------------------|--------|
| 1      | Cage carrying capacity |        |

| Sl No. | Designation                     | Symbol |
|--------|---------------------------------|--------|
| 2      | Turntable ladder (basic symbol) |        |
| 3      | Rotate clockwise                |        |
| 4      | Rotate anti-clockwise           |        |
| 5      | Extend ladder                   |        |
| 6      | House ladder                    |        |
| 7      | Elevate ladder                  |        |
| 8      | Depress ladder                  |        |
| 9      | Align ladder                    |        |

| SI No. | Designation                          | Symbol  |
|--------|--------------------------------------|---|
| 10     | Hydraulic platform<br>(basic symbol) |    |
| 11     | Rotate clockwise                     |    |
| 12     | Rotate anti-clockwise                |    |
| 13     | Extend boom<br>(boom indicated)      |  |
| 14     | House boom<br>(boom indicated)       |  |
| 15     | Elevate boom<br>(boom indicated)     |  |
| 16     | Depress boom<br>(boom indicated)     |  |

| SI No. | Designation                  | Symbol  |
|--------|------------------------------|---|
| 17     | Cage rotation clockwise      |  |
| 18     | Cage rotation anti-clockwise |  |

### 3.8 Miscellaneous

| SI No. | Designation                            | Symbol  |
|--------|--|---|
| 1      | Circuit (other than electrical) open   |   |
| 2      | Circuit (other than electrical) closed |  |
| 3      | Winch                                  |  |
| 4      | Winch-reel in                          |  |
| 5      | Winch-reel out                         |  |

| Sl No. | Designation         | Symbol |
|--------|---------------------|--------|
| 6      | Winch angle maximum |        |
| 7      | Monitor lock        |        |
| 8      | Monitor unlock      |        |
| 9      | Water monitor       |        |
| 10     | Foam monitor        |        |
| 11     | Powder monitor      |        |

| Sl No. | Designation        | Symbol |
|--------|--------------------|--------|
| 12     | Deflector (closed) |        |
| 13     | Deflector (open)   |        |
| 14     | Hose-reel          |        |
| 15     | Hose-reel wind out |        |
| 16     | Hose-reel wind in  |        |
| 17     | Flushing           |        |

