

### BC DRY POWDER PBC TROLLEY MOUNTED 25 KG FIRE EXTINGUISHER

Applicable Class of fire - B, C and electrically started fires.

**Brief description:** These extinguishers come with nominal charge of 25 kg (±2%) dry powder, Constructed of MS Sheet by MIG Welding process and brass forged cap, Internally & Externally epoxy powder coated. As a propellant it is provided with CO2 1kg cylinder (Confirms to IS:7285).

**Client :**

**PO Number :**



#### 1. GENERAL DATA

|                   |                               |
|-------------------|-------------------------------|
| Manufacturer      | : Kanadia Fyr Fyter Pvt. Ltd. |
| Trade Mark        | : "KANEX"                     |
| BIS standard code | : IS 16018:2012               |
| Type              | : Mobile Trolley mounted      |

#### 2. MATERIAL OF CONSTRUCTION

|                            |                                                                               |
|----------------------------|-------------------------------------------------------------------------------|
| Extinguishing medium       | : Potassium Bi Carbonate (PBC) dry powder (IS 4308:2019)                      |
| Body                       | : Mild Steel Sheet as per IS:2062                                             |
| Neck Ring                  | : MS Pipe confirms to IS:1239 (part-1)                                        |
| Cap                        | : Brass confirms to IS:319                                                    |
| Drain plug                 | : Brass confirms to IS:319                                                    |
| Siphon tube (Inlet/Outlet) | : MS pipe confirms to IS:3601                                                 |
| CO2 gas cylinder           | : 1KG confirms to IS:7285                                                     |
| Discharge hose with nozzle | : PVC braided (Burst pressure ≥ 55 bar) hose & Aluminum alloy (IS:617) nozzle |
| Trolley wheel              | : Solid rubber                                                                |
| Carrying handle            | : MS pipe                                                                     |

#### 3. PERFORMANCE DATA

|                                    |                                                                                                                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire rating                        | : 233B                                                                                                                                                                                                     |
| Performance requirements           | : <b>Min. Effective discharge time</b> : 30 Sec. ( Actual : 32 Sec. Approx.)<br>: <b>Min. Bulk range of discharge</b> : 6 Mtr. ( Actual : 6.5 Mtr. Approx.)<br>: <b>Min. Percentage of discharge</b> : 85% |
| Temperature Range                  | : -30° to +55° C                                                                                                                                                                                           |
| Service pressure / Expansion space | : 14 bar                                                                                                                                                                                                   |
| Max. service pressure              | : 17 bar                                                                                                                                                                                                   |

#### 4. ROUTINE TESTS

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Hydro Pressure Test (Pt)          | : 35 bar (3.5 MPa) Hold for 30 sec. |
| Min. Burst pressure (Pb) for body | : 55 bar (5.5 MPa) Hold for 60 sec. |

#### 5. TYPE TESTS

|  |                        |
|--|------------------------|
|  | : As per IS 16018:2012 |
|--|------------------------|

#### 6. DIMENSIONS

|                             |                                   |
|-----------------------------|-----------------------------------|
|                             | : <b>Diameter</b> : 300 ± 10 mm   |
|                             | : <b>Height</b> : 980 mm Approx.  |
| Thickness of sheet          | : Made up from 3.15mm thick sheet |
| Filler opening              | : 75mm                            |
| Full weight of extinguisher | : 84kg (Approx.)                  |

#### 7. ANTI-CORROSIVE TREATMENT

|  |                                                                                            |
|--|--------------------------------------------------------------------------------------------|
|  | : Phosphate treatment followed by epoxy powder coating of body DFT not less than 50 Micron |
|--|--------------------------------------------------------------------------------------------|

#### 8. MISCELLENEOUS

|                                 |                                    |
|---------------------------------|------------------------------------|
| Inspection & testing            | : As per approved QAP              |
| Finish                          | : PO Red as per IS : 5 (Shade 538) |
| Marking                         | : As per IS 16018:2012             |
| Approvals                       | : BIS                              |
| Maintenance, care and refilling | : As per IS 16018:2012             |

#### 9. PACKING

|  |                                         |
|--|-----------------------------------------|
|  | : Corrugated paper & suitable jute bags |
|--|-----------------------------------------|

MARKING : AS PER IS 16018:2012

APPROVAL : BIS - ISI MARKED

### DESIGN DATA

| SR. NO. | PARTICULARS                        | DESCRIPTION             |
|---------|------------------------------------|-------------------------|
| 01      | CAPACITY                           | 25 KG $\pm$ 2%          |
| 02      | TEMPERATURE RANGE                  | -30°C TO +55°C          |
| 03      | SERVICE PRESSURE / EXPANSION SPACE | 14 bar                  |
| 04      | MAX. SERVICE PRESSURE              | 17 bar                  |
| 05      | PRESSURE TEST (PT)                 | 35 bar HOLD FOR 30 Sec. |
| 06      | MIN. BURST PRESSURE TEST (PB)      | 70 bar HOLD FOR 60 Sec. |

### PERFORMANCE PARAMETERS

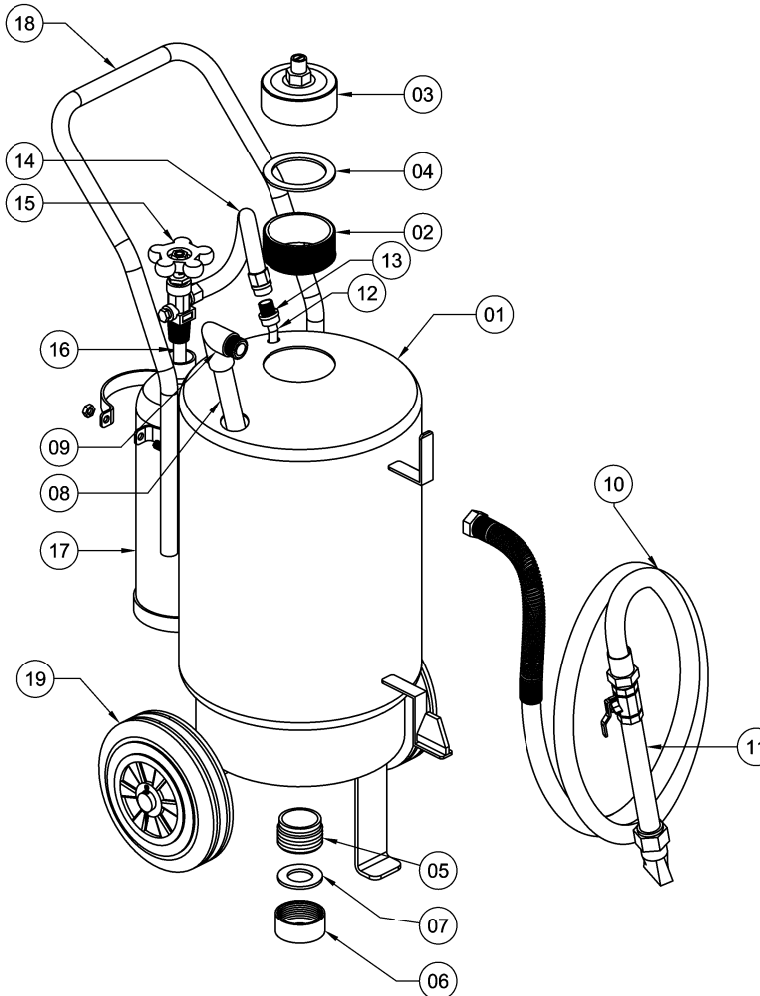
|    |                          |                                         |
|----|--------------------------|-----------------------------------------|
| 01 | EFFECTIVE DISCHARGE TIME | MIN. 30 SEC. (Actual : 32 sec. aprx.)   |
| 02 | BULK RANGE OF DISCHARGE  | MIN. 6 METER (Actual : 6.5 meter aprx.) |
| 03 | PERCENTAGE OF DISCHARGE  | NOT LESS THAN 85%                       |
| 04 | FIRE RATING              | 233B                                    |

HARD PUNCH MARKING:

KANEX YEAR PT 35 BAR T -30°C/+55°C 25 KG

SERIAL NO. XXXXXX

|          |                          |                                                       |      |
|----------|--------------------------|-------------------------------------------------------|------|
| 20       | EXTINGUISHIN MEDIUM      | POTASSIUM BI CARBONTE POWDER CONFIRMS TO IS 4308:2019 | 25   |
| 19       | TROLLEY WHEEL            | SOLID RUBBER                                          | 02   |
| 18       | CARRYING HANDLE          | MS                                                    | 01   |
| 17       | CO2 CYLINDER (1 KG)      | CONFIRMS TO IS:7285 & PESO APPROVED                   | 01   |
| 16       | CO2 CYLINDER SIPHON TUBE | ALUMINUM                                              | 01   |
| 15       | CO2 CYLINDER VALVE       | BRASS CONFIRMS TO IS:3224                             | 01   |
| 14       | CO2 CONNECTION HOSE      | WIRE BRAIDED (BURST PRESSURE $\geq$ 275 bar)          | 01   |
| 13       | CO2 CONNECTION ADAPTER   | MS                                                    | 01   |
| 12       | INLET SIPHON             | MS PIPE AS PER IS:3601                                | 01   |
| 11       | DISCHARGE NOZZLE         | ALUMINUM ALLOY AS PER IS:617                          | 01   |
| 10       | DISCHARGE HOSE           | PVC BRAIDED (BURST PRESSURE $\geq$ 55 bar)            | 01   |
| 09       | DISCHARGE ELBOW          | MS FORGED                                             | 01   |
| 08       | OUTLET SIPHON TUBE       | MS PIPE AS PER IS:3601                                | 01   |
| 07       | DRAIN PLUG WASHER        | RUBBER                                                | 01   |
| 06       | DRAIN PLUG               | BRASS - 1.5" FEMALE THREADED                          | 01   |
| 05       | DRAIN RING               | MS PIPE - 1.5" MALE THREADED                          | 01   |
| 04       | CAP WASHER               | RUBBER                                                | 01   |
| 03       | CAP                      | BRASS - 3" AS PER IS:319                              | 01   |
| 02       | NECK RING                | MS PIPE - 3" MALE THREADED AS PER IS:1239 PART-1      | 01   |
| 01       | BODY                     | MS SHEET AS PER IS:2062                               | 01   |
| ITEM NO. | DESCRIPTION              | MATERIAL                                              | QTY. |



MODEL NO. : KFDRQ-25-P



|                                                                                                                                                                                                                                         |          |             |      |                |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|----------------|----------------|
|                                                                                                                                                                                                                                         |          |             |      | DATE           | NAME           |
|                                                                                                                                                                                                                                         |          |             |      | DRAWN 12/06/19 | MEHUL          |
|                                                                                                                                                                                                                                         |          |             |      | CHECK.         |                |
|                                                                                                                                                                                                                                         |          |             |      | APPD.          |                |
| SYMBOL                                                                                                                                                                                                                                  | REVISION | DESCRIPTION | DATE | BY             |                |
| TITLE : BC DRY POWDER POTASSIUM BI CARBONATE (TROLLEY MOUNTED) 25KG FIRE EXTINGUISHER                                                                                                                                                   |          |             |      |                |                |
| GAD NO. : KFFPL/GAD/KFDRQ-25-P                                                                                                                                                                                                          |          |             |      |                |                |
| <br>KANADIA FYR FYTER PVT. LTD.<br>(AN ISO 9001:2015 CERTIFIED COMPANY)<br>7-8 PARAS INDUSTRIAL ESTATE, NEAR<br>GARIBSHAH PIR, SIHOR(364240), GUJ. |          |             |      |                |                |
| SCALE : NTS                                                                                                                                                                                                                             |          |             |      |                | SHEET : 1 OF 1 |