



**DATASHEET FOR FE 36 SS FIRE
EXTINGUISHER 2 KG.**

KANADIA FYR FYTER PVT. LTD
(An ISO 9001:2008 Certified Company)

KANEX DOC NO.: KFPL/GTP/SSP/SLP/CA/2

REV. 00

DATE: 14.11.2014

SHEET 1 OF 2

CLIENT

PROJECT

ITEM CODE

1.00 General

| | | |
|------|--|---------------------------|
| 1.01 | Manufacturer | Kanadia Fyr Fyter Pvt Ltd |
| 1.02 | Trade Mark | "KANEX" |
| 1.03 | Standard Code | IS 15683:2006 |
| 1.04 | Type | Portable Stored Pressure |
| 1.05 | Whether Seal is provided to indicate that Extinguisher has not been used | Yes |
| 1.06 | Quantity | |

2.00 Materials of Construction

| | | |
|------|----------------------------------|--|
| 2.01 | Extinguishing Medium | Clean Agent FE 36 (HFC 236fa) |
| 2.02 | Body | SS 304 |
| 2.03 | Neck Ring | SS 304 |
| 2.04 | Valve | Brass FLB confirms to IS 6912 |
| 2.05 | Siphon Tube | Aluminum |
| 2.06 | Discharge Nozzle | Brass |
| 2.07 | Pressure Gauge/indicator | As per IS 15683:2006 |
| 2.08 | Discharge Hose | Rubber Braided EPDM Hose (Length:300 mm) |
| 2.09 | Wall mounting Bracket with screw | Mild steel (Powder Coated)/M.S |

3.00 Guaranteed Performance

| | | |
|------|--------------------------|--|
| 3.01 | Capacity | 2 kg (Tolerance $\pm 2\%$ by mass) |
| 3.02 | Discharge duration test | Min. 8 sec at min. 1 meter for 90% contents. |
| 3.03 | Percentage of discharge | Not less than 95% |
| 3.04 | Fire Rating | 1A : 21B |
| 3.05 | Temperature Range | -30 °C to +55 °C |
| 3.06 | Service Pressure | 09 bar |
| 3.07 | Maximum Service Pressure | 15 bar |

4.00 Routine Tests

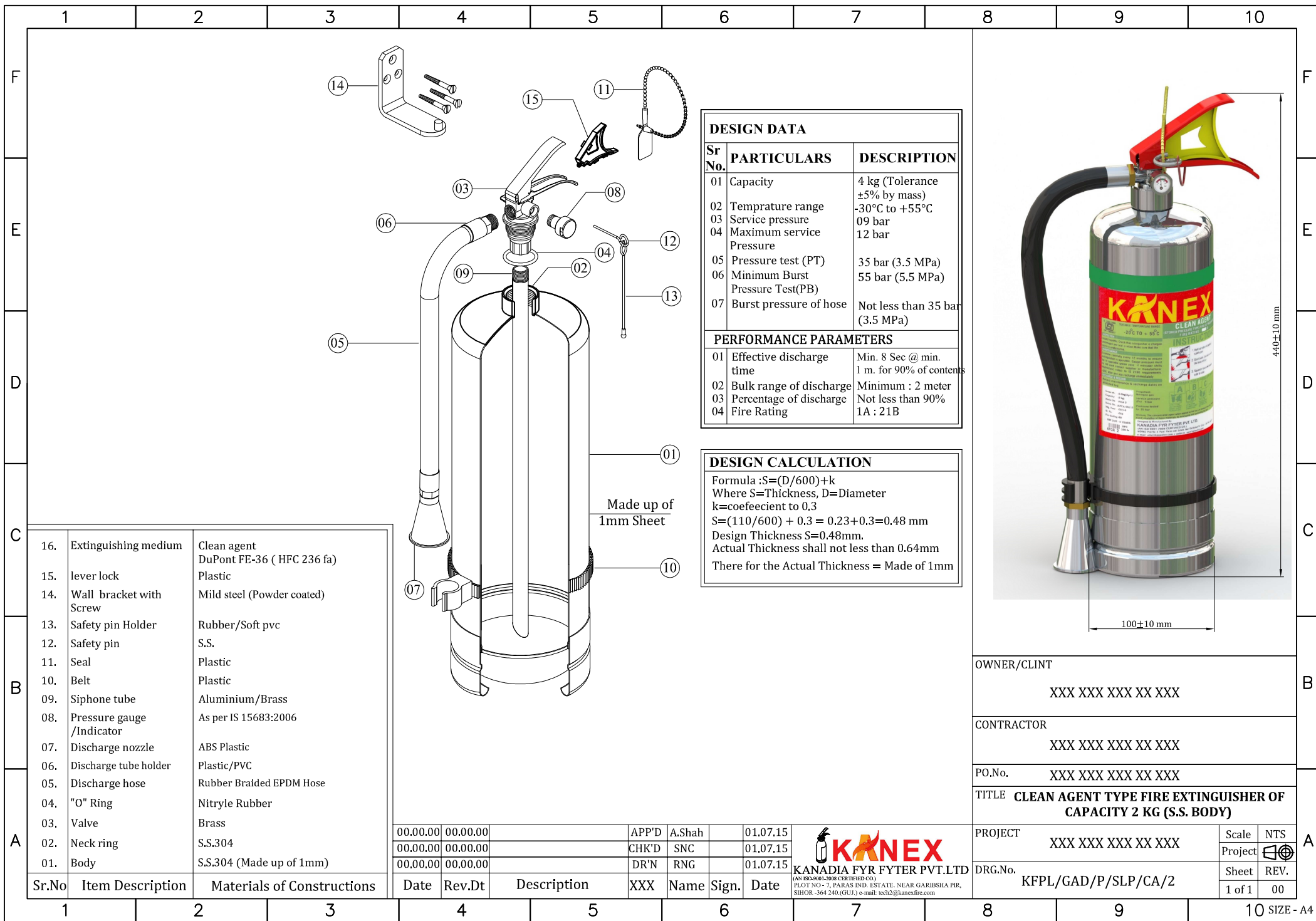
| | | |
|------|--|--|
| 4.01 | Pressure test (Pt) | 35 bar (3.5 MPa) |
| 4.02 | Minimum Burst Pressure test (Pb) | 55 bar (5.5 MPa) |
| 4.03 | Leakage test | By applying soap solution leakage to checked |
| 4.04 | Partial discharge | The second pressure or weight shall not be less than 75% of the first after interruption of the Discharge. |
| 4.05 | Burst pressure Test For Discharge Hose | Not less than 50 bar (5.0 Mpa) |



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| | | |
|-------------|---|---|
| 5.00 | Extinguishers also pass through the Following Tests (Type tests) | |
| 5.01 | Resistance to Temperature changes | |
| 5.02 | Resistance to Impact test | |
| 5.03 | Resistance to Vibrations test | |
| 5.04 | Resistance to Corrosion test -External | |
| 5.05 | Resistance to Corrosion test -Internal | |
| 5.06 | Tapping Test | |
| 5.07 | Intermittent Discharge test | |
| 5.08 | Crushing test | |
| 5.09 | Pressure cycling test | |
| 6.00 | Dimensions | |
| 6.01 | Maximum Diameter of Fire Extinguisher | : 100±10 mm. |
| 6.02 | Overall Height of Extinguisher | : 440±10% mm. (Approx.) |
| 6.03 | Thickness of sheet | : Made of 1 mm |
| 7.00 | Painting | Smooth Finished |
| 8.00 | Accessories (brackets & screws) | Provided |
| 9.00 | Miscellaneous | |
| 9.01 | Inspection & Testing | As per QP |
| 9.02 | Marking | As per IS 15683:2006 |
| 9.03 | Approvals | BIS |
| 9.04 | Maintenance, Care and Refilling | As per IS 2190 |
| 10.0 | Packing | Corrugated boxes (Outer box sizes: 360x170x534mm) |



| DESIGN DATA | | |
|-------------|---------------------------------|--------------------------------|
| Sr No. | PARTICULARS | DESCRIPTION |
| 01 | Capacity | 4 kg (Tolerance ±5% by mass) |
| 02 | Temperature range | -30°C to +55°C |
| 03 | Service pressure | 09 bar |
| 04 | Maximum service Pressure | 12 bar |
| 05 | Pressure test (PT) | 35 bar (3.5 MPa) |
| 06 | Minimum Burst Pressure Test(PB) | 55 bar (5.5 MPa) |
| 07 | Burst pressure of hose | Not less than 35 bar (3.5 MPa) |

| PERFORMANCE PARAMETERS | | |
|------------------------|--------------------------|--|
| 01 | Effective discharge time | Min. 8 Sec @ min. 1 m. for 90% of contents |
| 02 | Bulk range of discharge | Minimum : 2 meter |
| 03 | Percentage of discharge | Not less than 90% |
| 04 | Fire Rating | 1A : 21B |

DESIGN CALCULATION
 Formula : $S=(D/600)+k$
 Where S=Thickness, D=Diameter
 k=coefficient to 0.3
 $S=(110/600) + 0.3 = 0.23+0.3=0.48$ mm
 Design Thickness S=0.48mm.
 Actual Thickness shall not less than 0.64mm
 There for the Actual Thickness = Made of 1mm



| | | |
|-----|---------------------------|---|
| 16. | Extinguishing medium | Clean agent DuPont FE-36 (HFC 236 fa) |
| 15. | lever lock | Plastic |
| 14. | Wall bracket with Screw | Mild steel (Powder coated) |
| 13. | Safety pin Holder | Rubber/Soft pvc |
| 12. | Safety pin | S.S. |
| 11. | Seal | Plastic |
| 10. | Belt | Plastic |
| 09. | Siphone tube | Aluminium/Brass |
| 08. | Pressure gauge /Indicator | As per IS 15683:2006 |
| 07. | Discharge nozzle | ABS Plastic |
| 06. | Discharge tube holder | Plastic/PVC |
| 05. | Discharge hose | Rubber Braided EPDM Hose |
| 04. | "O" Ring | Nitryle Rubber |
| 03. | Valve | Brass |
| 02. | Neck ring | S.S.304 |
| 01. | Body | S.S.304 (Made up of 1mm) |

| | | | | | | |
|----------|----------|--|-------|--------|--|----------|
| 00.00.00 | 00.00.00 | | APP'D | A.Shah | | 01.07.15 |
| 00.00.00 | 00.00.00 | | CHK'D | SNC | | 01.07.15 |
| 00.00.00 | 00.00.00 | | DR'N | RNG | | 01.07.15 |

KANEX
 KANADIA FYR FYTER PVT.LTD
 (AN ISO-9001:2008 CERTIFIED CO.)
 PLOT NO - 7, PARAS IND. ESTATE, NEAR GARIBSHA PIR,
 SHJOR -364 240,(GUJ.) e-mail: tech2@kanexfire.com

| | | | |
|--|---------------------|--------------------|------|
| OWNER/CLINT | | XXX XXX XXX XX XXX | |
| CONTRACTOR | | XXX XXX XXX XX XXX | |
| PO.No. | XXX XXX XXX XX XXX | | |
| TITLE CLEAN AGENT TYPE FIRE EXTINGUISHER OF CAPACITY 2 KG (S.S. BODY) | | | |
| PROJECT | XXX XXX XXX XX XXX | Scale | NTS |
| DRG.No. | KFPL/GAD/P/SLP/CA/2 | Project | |
| | | Sheet | REV. |
| | | 1 of 1 | 00 |