

FLP - HS

FLAME PROOF HOT AIR SEALING SYSTEM



Electrical Data

Control System	: Closed Loop
Operating Voltage	: 440 V, 50 Hz, Three Phase regulated to +- 5%
Control Voltage	: 230 V 50 Hz, Single
Maximum System Current	: 12 Amps / Phase.
Max. Power Consumption	: 6.6 KW - 3 Phase.
Heater Specifications	: 2.2K.W. 230 V, 50 Hz Finned heater - 3 Nos.
Electrical Panel Enclosure	: 600 x 400 x 250- Main Panel. 300 x 300 x 150- Terminal Chamber
Panel Enclosure Group	: II A as per IS 13346/04 (IEC:60079-0/00)
Panel Temperature Class	: T3 as per IS 2148/04 (IEC-1/01)
Protection Class	: IP 65 as per IS 12063/87 (IEC:60529/89)
Max. Temperature	: 250° C Inside hot air chamber
Control Cable Size	: 2.5 sq.mm, CU, PVC Sheathed
Power Cable Size	: 4 core 6 sq.mm PVCAPVC, Copper Cable.
Earthing Connections	: 6 sq.mm copper wire.

Mechanical Data

Control System	: Closed loop
Control Signal Medium	: Pneumatic & Electrical.
A) For pneumatic panel:	Compressed air - Dry, Filtered & Non- Lubricated.
B) For Hot air Chamber:	Compressed air - dry, filtered & non- lubricated.
Operating Pressure†	: 5 bar for pneumatic system 4 bar for hot air chamber.
Sealing Time	: 3 sec.,
No. Of Cylinders / Hour	: Refer chart
Air flow rate†	: 800 ltrs / min (free air delivery) Instrument grade clean dry oil free air suitably regulated to 5 bar
Control Pneumatic Tube	: 3 mm
Power Pneumatic tube	: 4 mm / 6 mm / 9 mm
Inter locks	: Electrical (Explosion proof solenoids & switches)

Description

The FLP automatic hot air sealing system is designed to seal various type of LPG cylinder valves. The system is capable of sealing various size of LPG cylinders in mix and match fashion. The control system is electro-pneumatic, which provides a high degree of safety and sealing as required in group II A/II B hazardous locations like LPG bottling plants. These machine are capable of running in automatic mode without any human intervention.

Type of protection	Flame Proof - Exd
Gas Groups	Group II A, II B
Finish	Epoxy Blue
CMRI Certificate No.	CMRI / TC / S / H 1165
Approvals	CCE, BIS

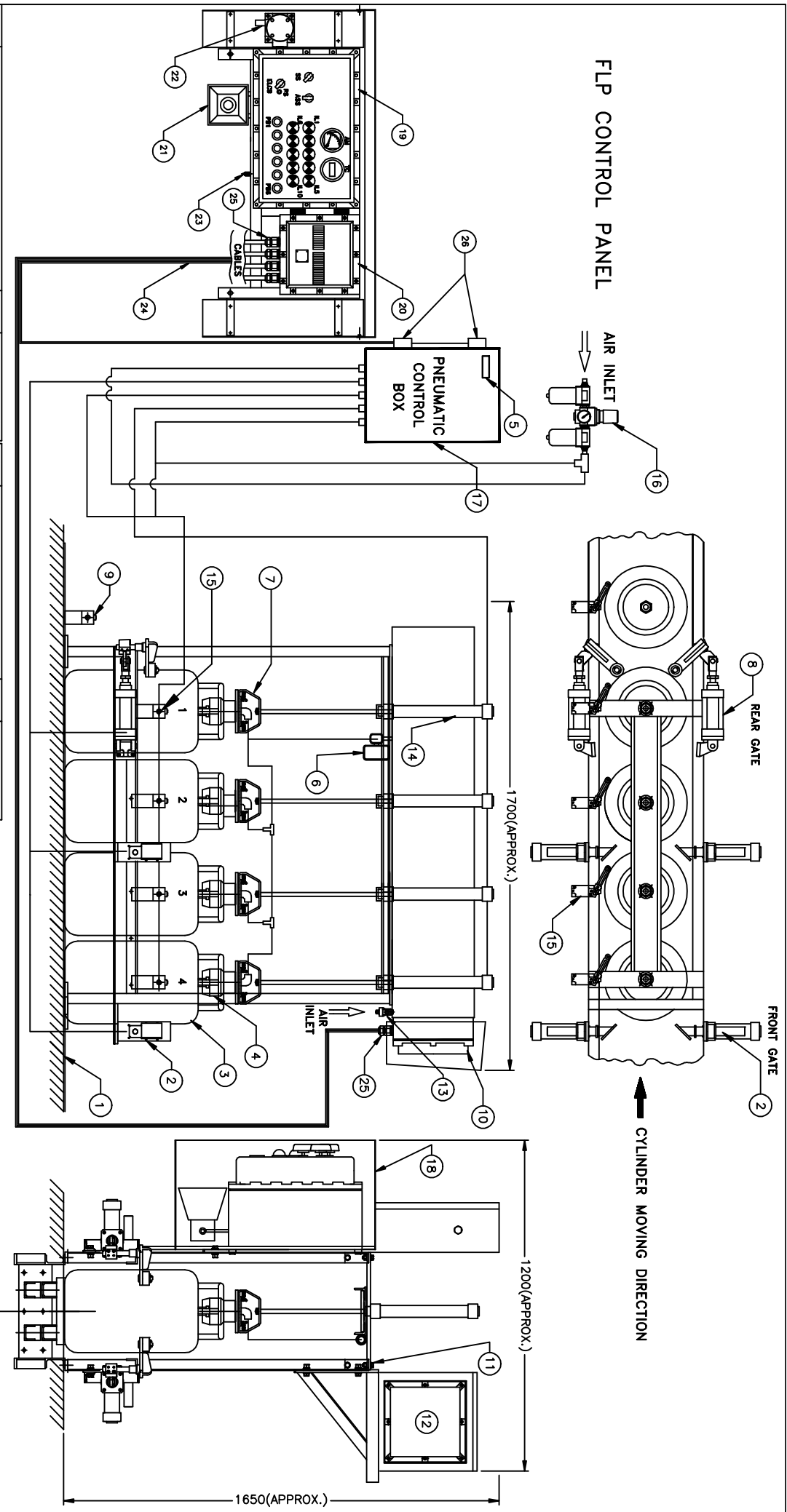
Production Rate

Catalogue No.	Conveyor speed @ 16-18m/min.
FLP - HS2	900 cylinders/hour
FLP - HS3	1200 cylindr/hour
FLP - HS4	1500 cylindr/hour
FLP - HS6	1800 cylindr/hour

MIX & MATCH can be provided to suit various sizes

* Indicates minimum parameters of site condition to be provided by the user. User to provide 4C x 6 sq.mm PVCAPVC copper cable & 6 sq.mm earth wire (copper) at a point close to place of operation.

† Indicates minimum parameters of site condition to be provided by the user. User should provide compressed air as above at a point close to the place of operation through ¾" conduit (F) with a Ball valve.



S.No.	DESCRIPTION	QTY.	MAKE	14	14
1	CHAIN CONVEYOR	-	-	14	PNEUMATIC GUN CYLINDERS
2	PNEUMATIC FRONT GATE	2	BALIGA/FESTO	15	PNEUMATIC LIMIT SWITCHES
3	LPG CYLINDERS	-	-	16	FILTER,REGULATOR UNIT
4	SEALING GUNS	4	BALIGA	17	PNEUMATIC CONTROL BOX
5	TOTALING COUNTER	1	FESTO	18	ELECTRICAL PANEL
6	HOT AIR ON/OFF VALVE	1	AVCON	19	FLP CONTROL CHAMBER(600x400x250)
7	CENTRING DEVICE	4	BALIGA	20	FLP TERMINAL CHAMBER(300x300x150)
8	PNEUMATIC REAR GATES	2	BALIGA/FESTO	21	FLP HOOPER
9	SYSTEM COUNTER LIMIT SWITCH	1	BALIGA	22	FLP PRESSURE SWITCH(0 TO 10 BAR)
10	FLP TERMINAL CHAMBER(300X300X150)	1	BALIGA	23	P TO E CONVERTOR
11	SUPPORT FRAME	1	BALIGA	24	ARMOURED CABLE (4Cx6sq.mm&6Cx1.5sq.mm)
12	FLAMEPROOF HOT AIR CHAMBER	1	BALIGA	25	CABLE GLANDS
13	NON RETURN VALVE	1	FESTO	26	FLP JUNCTION BOX

TITLE : EXPLOSIONPROOF LPG HOT AIR SEALING SYSTEM - 4 GUN

FOR INFORMATION ONLY

CUSTOMER :

CMRS : CMR/TC/S/H/1165

CCE No. : R1(1)136/BALIGA/12-XVI

IS:13346/04 (IEC:60079-0/00)

IS:2148/04 (IEC:60079-1/01)

IS:12063/87 (IEC:60529/89)

FINISH : EPOXY BLUE

CAT NO. : FLPHS 04

NAME : YSK

DATE : 27.08.02

CLASS : IIA, IIB IP65

DRN. : YSK

GA : 27.08.02

SHEET : 1 OF 1

CHKD. : GA

APPD. : KS

27.08.02

DRG. NO. : QDFLPHS041

REV : 0

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