

HI-PRESSURE PILOTS

FOR GAS AT PRESSURES FROM 2 TO 25 PSIG

MODEL:
HP,HPA,HPS,HPST,HPSC

Revision: 0

BULLETIN
3270

DESCRIPTION

Hi-Pressure Pilot Assemblies are designed to use gas supplied at 10 PSIG or more. They produce a stiff, sharp flame, which will not blow away from the burner tip and which will stand heavy drafts and cross currents. Although lower gas pressures can be used, results are generally better with at least 10 PSI.

Hi-Pressure Pilots are supplied with orifices to fit the gas conditions specified on the order. They are normally operated with the air shutters wide open and produce flames from 3" to 5" long, according to size of pilot used.

Various Hi-Pressure Pilot assemblies are listed below. All include the proper size Pilotjector, with 1/8" NPT inlet, drilled orifice, as specified, and "BT" flame retaining tip. Burner tips on the HP, HPS and HPSC Series are steel. Tips on the HPA and HPST Series are of heat-resisting alloy. The letter "S" in the catalog number designates Spark Plug mounted at proper point in burner tip for electric ignition.

For installation, a 90° or 45° elbow may be placed between Pilotjector and Blast Tip or they can be ordered with an elbow included at an additional cost.

Because the gas jet entrains sufficient air for complete combustion, the HPST type can be used in fully enclosed burners against ordinary furnace pressures.



CAPACITY - HIGH PRESSURE PILOTS

Model No. Pilot Series	Btu/hr at 10 PSIG			
	Manufactured 450 to 600 Btu/Cf	Mixed 700 to 850 Btu/Cf	Natural 900 to 1200 Btu/Cf	Propane 2500 to 2600 Btu/Cf
91 HP-HPA-HPS-HPSC 941 HPST	5,000	5,000	3,500	-
92 HP-HPA & HPS 962 HPST	8,000	7,000	4,500	-
93 HP-HPA & HPS	11,000	9,000	7,000	7,000
94 HP-HPA-HPS-HPSC 984 HPST	15,000	13,000	10,000	10,000

CAPACITY MULTIPLIER FOR OTHER PRESSURES THAN 10# PSIG

Pressure	2	3	4	5	6	7	8	9	10	12	15	20	25
Multiplier	0.447	0.548	0.632	0.709	0.775	0.836	0.895	0.95	1	1.09	1.22	1.41	1.58

CAUTION: Operation of combustion equipment can be hazardous resulting in bodily injury or equipment damage. Each burner should be supervised by a combustion safeguard and only qualified personnel should install, make system adjustments and perform any required service.



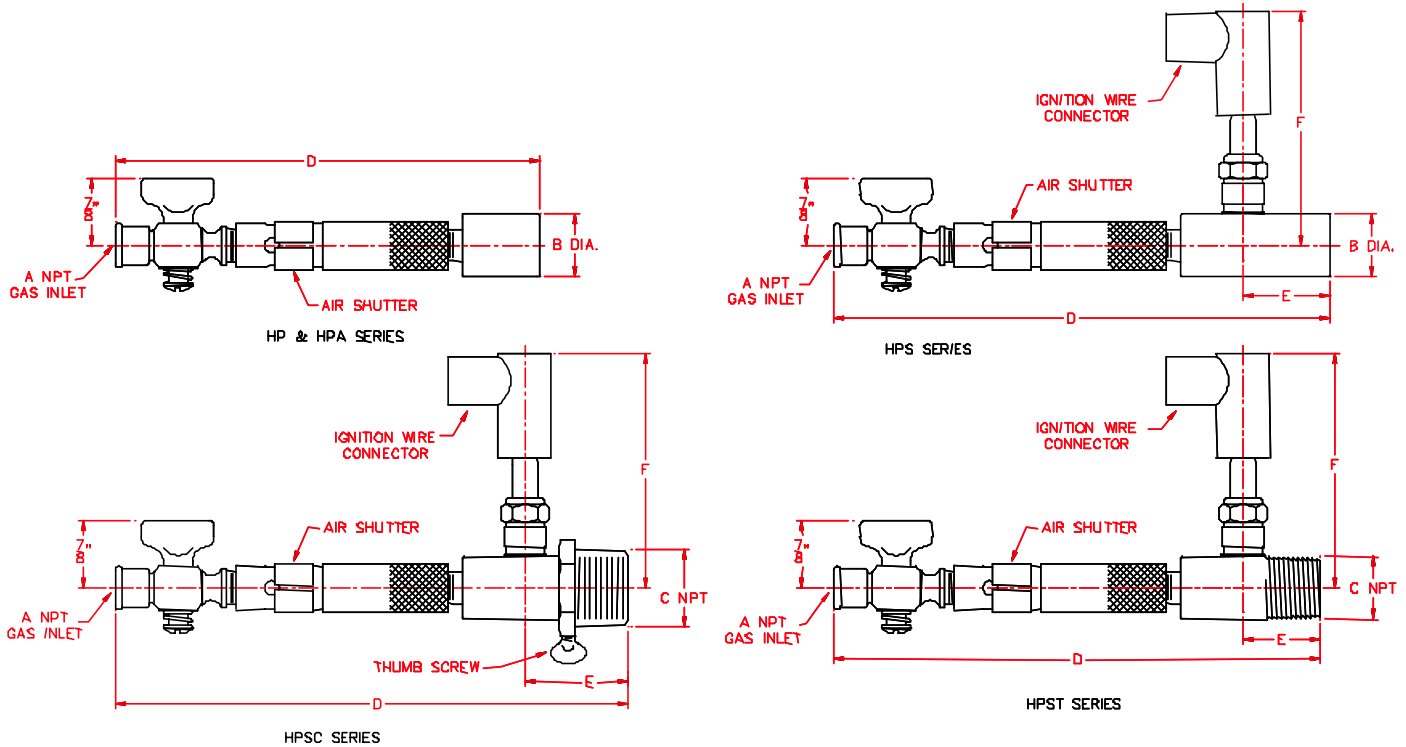
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NOTICE: Pyronics practices a policy of continuous improvement in the design of its products. It reserves the right to change the specifications at any time without prior notice.

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DIMENSIONS



Model No.	A	B	C	D	E	F
91 HP, HPA	1/8	13/16	-	5-1/2	-	-
92 HP, HPA	1/8	1	-	5-5/8	-	-
93 HP, HPA	1/8	1-1/4	-	6-7/8	-	-
94 HP, HPA	1/8	1-3/8	-	7-3/8	-	-
941 HPST	1/8	-	1/2	6-3/8	1	3
962 HPST	1/8	-	3/4	6-7/16	1	3-1/8
984 HPST	1/8	-	1	8-1/4	1	3-1/4
91 HPS	1/8	13/16	-	6-1/2	1-1/8	3
92 HPS	1/8	1	-	6-3/4	1-1/4	3-1/8
93 HPS	1/8	1-1/4	-	8	1-3/8	3-1/4
94 HPS	1/8	1-3/8	-	8-3/4	1-1/2	3-5/16
*91 HPSC	1/8	13/16	3/4	6-3/4	1-3/8	3
**94 HPSC	1/8	1-3/8	1-1/4	9	1-3/4	3-5/16

All dimensions are in inches $\pm 1/8$ "

* For use in "A" style cages.

** For use in "B" style cages.

ORDERING INFORMATION

Please include the following information with your order:

1. Quantity each item required.
2. Catalog number each item.
3. Kind of gas and pressure available.
4. Shipping instructions.