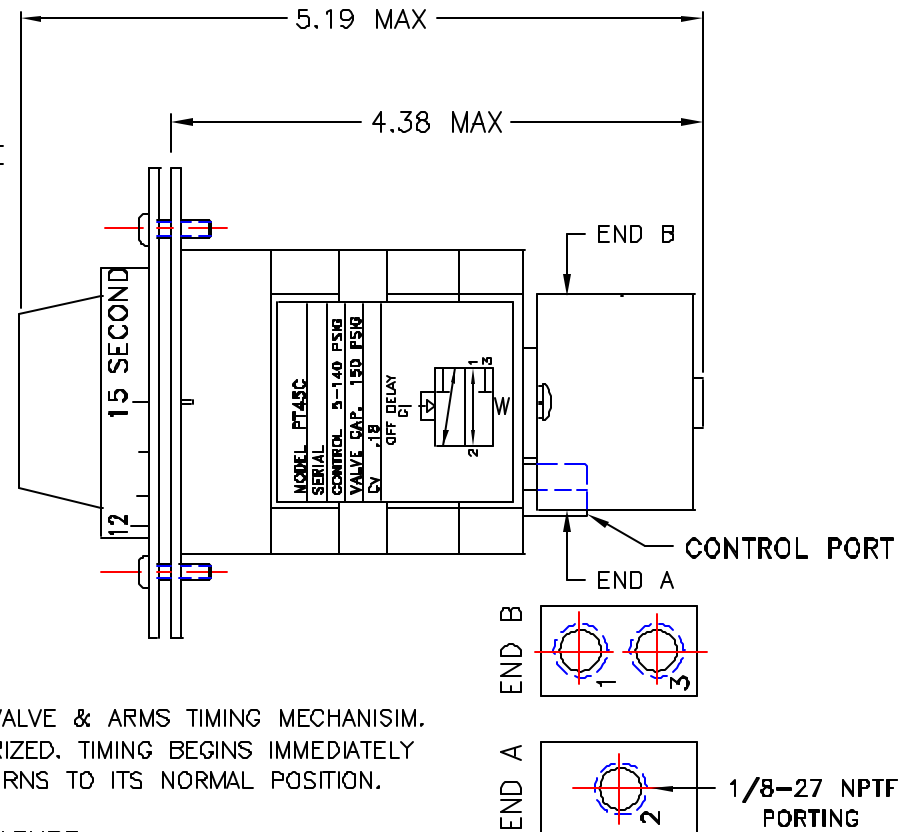
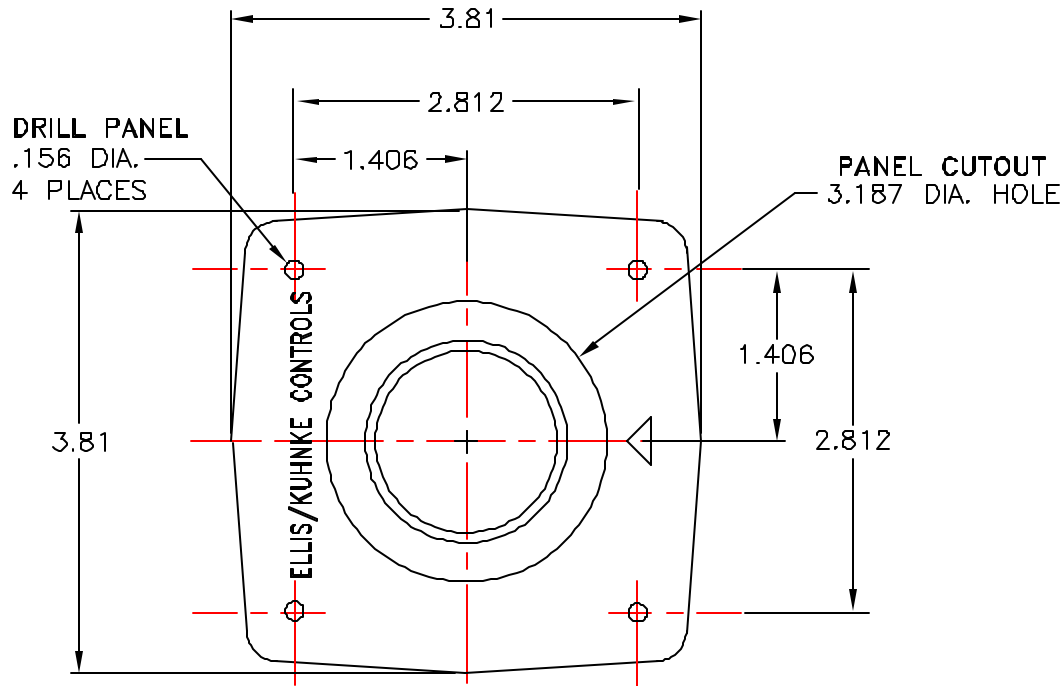


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVAL
A	RELEASE NEW DRAWING	8/15/95	



OPERATION

APPLYING SPECIFIED PRESSURE TO THE CONTROL PORT TRANSFERS 3-WAY SPOOL VALVE & ARMS TIMING MECHANISM. VALVE REMAINS IN TRANSFERRED POSITION AS LONG AS CONTROL PORT IS PRESSURIZED. TIMING BEGINS IMMEDIATELY UPON REMOVAL OF AIR PRESSURE. AT THE END OF THE DELAY PERIOD, VALVE RETURNS TO ITS NORMAL POSITION.

TIME RANGE

0.1 TO 1 SEC
 0.5 TO 5 SEC
 1.5 TO 15 SEC
 5 TO 50 SEC
 20 TO 200 SEC
 1 TO 300 SEC
 1 TO 10 MIN
 3 TO 30 MIN
 6 TO 60 MIN

MODEL

PT45A
 PT45B
 PT45C
 PT45D
 PT45E
 PT45K
 PT45F
 PT45H
 PT45I

OPERATING PRESSURE

5 TO 140 PSIG

MEDIA

3-5 MICRON FILTERED AIR
 OR NONAGGRESSIVE GAS
 NON-LUBRICATED

REPEAT ACCURACY

UP TO 200 SEC ±5%
 OVER 200 SEC ±10%

OPERATING TEMPERATURE

-30°C TO 70°C (-20°F TO 165°F)

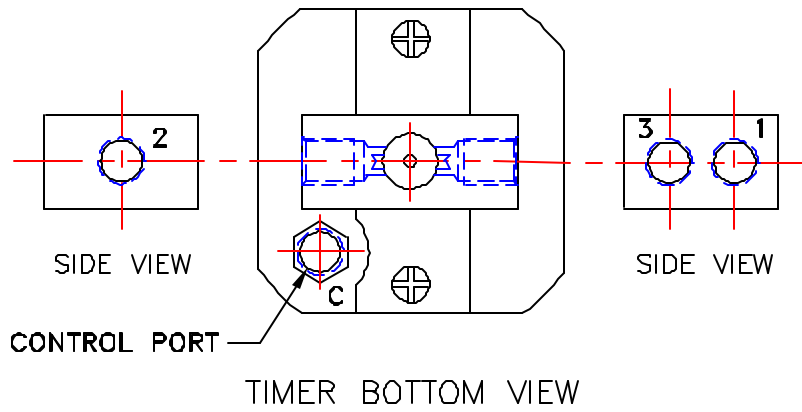
OUTPUT VALVE

Cv - 0.25
 FLOW @ 100 PSI - 9 CFM
 MULTI PURPOSE 3-WAY SPOOL
 28" Hg TO 300 PSIG

ELLIS/KUHNKE CONTROLS

DRAWN BY	EJL	PNEUMATIC TIMER	
CHECKED	8/15/95	OFF DELAY - PANELMOUNT	
ISSUED		SIZE B	FSCM NO. DWG. NO. PT 45
		SCALE 4:1	SHEET 1 OF 2

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVAL
A	RELEASE NEW DRAWING	9/8/95	



VALVE CONNECTION OPTIONS:

- 3 AS INPUT – TURNS OFF OUTPUT WHEN TIMED OUT. PASSES AIR FROM PORT 3 TO 2 WHILE TIMING. DUMPS (VENTS) AIR FROM 2 TO 1 WHEN TIMED OUT.
- 2 AS INPUT – DIVERTER. DURING TIMING AIR FLOWS FROM PORT 2 TO 3. AFTER TIMING OUTPUT IS SWITCHED FROM PORT 3 TO PORT 1.
- 1 AS INPUT – TURNS ON OUTPUT AFTER TIME DELAY. DUMPS (VENTS) AIR FROM PORT 2 TO PORT 3 WHILE TIMING. AIR FLOWS FROM PORT 1 TO PORT 2 AFTER TIME DELAY.

OFF DELAY:

- APPLYING PRESSURE TO THE CONTROL PORT – C – FOR AT LEAST .100 SECONDS WILL TRANSFER THE 3-WAY VALVE AND ARM THE DEVICE FOR TIMING.
- TIME DELAY BEGINS WHEN PRESSURE IS REMOVED FROM THE CONTROL PORT – C.
- RE-APPLICATION OF PRESSURE TO THE CONTROL PORT – C – (DURING OR AFTER TIMING) WILL RESET FOR A NEW TIME DELAY CYCLE.
- ALL PORTS SUPPLIED WITH 1/8 NPTF THREADS.
- MOUNT HORIZONTALLY IN PANEL (UNLESS OTHERWISE SPECIFIED DEVICE IS CALIBRATED FOR HORIZONTAL OPERATION).

QTY REQ'D	ITEM NO.	PART OR IDENTIFICATION NO.	DESCRIPTION	MATERIAL SPECIFICATION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .004 ± .005 ± 1°				
DRAWN BY E.J.L. 9/8/95			PNEUMATIC TIMER OFF DELAY PANELMOUNT	
MATERIAL	CHECKED		SIZE B	FSCM NO.
FINISH	ISSUED		DWG. NO. PT45	
DO NOT SCALE DRAWING			SCALE 4:1	SHEET 2 OF 2