



## VAPOR RECOVERY COMPLIANCE ASSISTANCE

### FLOW RATE DETERMINATION

The San Diego Air Pollution Control District's (SDAPCD) gasoline-dispensing facility permits require monthly checks and corresponding records of gasoline dispensing flow rates. Flow Rates have been determined by the California Air Resources Board to be a factor affecting the performance of vapor recovery systems. The requirement to verify flow rates are within the required range will improve compliance and enhance vapor recovery. Each grade point has a separate flow rate, regardless of the number of hoses on a dispenser and must be tested at least once a month. If you have any questions regarding the determination of flow rates, please contact Randy Smith at (858) 586-2677 of the SDAPCD Compliance Division.

#### Flow Rate Determination:

- 1) Time 1 gallon of gasoline, dispensed at the maximum rate. **The District encourages timing during vehicle fueling.**
- 2) Find the corresponding time on the chart below.  
The number to the right of the time is the **flow rate**
- 3) Record the Flow Rate on Attachment E.  
**Note:** *Any nozzles with flow rates less than 5.0 GPM or greater than 10.0 GPM should be removed from service until corrected.*

#### 1-GALLON TEST: (Time) (Flow Rate)

(sec)	(GPM)	(sec)	(GPM)	(sec)	(GPM)	(sec)	(GPM)	(sec)	(GPM)	(sec)	(GPM)
6.0	10.00	7.0	8.57	8.0	7.50	9.0	6.67	10.0	6.00	11.0	5.45
6.1	9.84	7.1	8.45	8.1	7.41	9.1	6.59	10.1	5.94	11.1	5.41
6.2	9.68	7.2	8.33	8.2	7.32	9.2	6.52	10.2	5.88	11.2	5.36
6.3	9.52	7.3	8.22	8.3	7.23	9.3	6.45	10.3	5.83	11.3	5.31
6.4	9.38	7.4	8.11	8.4	7.14	9.4	6.38	10.4	5.77	11.4	5.26
6.5	9.23	7.5	8.00	8.5	7.06	9.5	6.32	10.5	5.71	11.5	5.22
6.6	9.09	7.6	7.89	8.6	6.98	9.6	6.25	10.6	5.66	11.6	5.17
6.7	8.96	7.7	7.79	8.7	6.90	9.7	6.19	10.7	5.61	11.7	5.13
6.8	8.82	7.8	7.69	8.8	6.82	9.8	6.12	10.8	5.56	11.8	5.08
6.9	8.70	7.9	7.59	8.9	6.74	9.9	6.06	10.9	5.50	11.9	5.04
										12.0	5.00

The preceding flow rate determination is to be used as a screening tool only. Please be advised the District will determine compliance with flow rate standard by dispensing at maximum handheld flow rate for a minimum of 30 seconds or by conducting any ARB approved test method which determines flow rate as part of its procedure.