



D-41

Atomizing Nozzle for a wide range of applications



INDUSTRIAL OIL NOZZLE

The Fig. D-41 direct pressure operated Industrial Oil Nozzle will spray oils having an operating viscosity as high as 100 SSU with liquid pressure of 200-250 psi., depending upon the capacity size—the smaller the capacity, the higher the pressure required. Will handle Bunker "C" oil if heated to about 180° to 200° with 200 psi pressure.

Tips and Discs are case hardened and lapped for proper seating and should not be transposed. Each matched Tip and Disc combination is identified by a letter stamped on each part so the customer can always determine mating parts.

Nozzles are always rated and stamped for capacity on No. 2 fuel oil at 100 psi. If order so specifies (and at a nominal extra charge), nozzles can be tested for spray angle and spray quality on either No. 2 or 100 SSU operating viscosity oil at pressures of either 200, 250 or 300 psi.* Flow rates in the table are based on No. 2 fuel oil of 34 SSU viscosity at 100°F. On 100 SSU viscosity oil, flow rates will increase about 10% over No. 2 oil rating.

*When so tested, the spray angle test pressure is stamped on the nozzles. If tested on 100 SSU oil, the nozzles are stamped "D-41-HO".

ORDERING:

Specify Quantity, Capacity Size, Pipe Size Connection (1/2" or 3/4" NPT), Spray Angle desired (Can be furnished in 10° steps from minimums shown in chart to 100° maximum), Operating Pressure available and whether to be tested on No. 2 oil or 100 SSU oil. If not otherwise specified, nozzles will be tested only on No. 2 oil at 100 psi.

MATERIAL

Please ask us for more information.

PIPE CONNECTION

1/2 " or 3/4 " NPT

SPRAY ANGLES

The spray patterns (i.e. hollow cone or solid cone) described below refer to the tests carried out with a 60° angle at a 75 mm distance from the nozzle orifice. In nozzles of a 60° spray angle or less, and for low flows in particular, the empty section of a hollow cone becomes smaller. The difference between hollow cone and solid cone practically disappears.

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DIMENSIONS & CAPACITIES

Rated GPH at 100 PSI	Minimum Capacity: Gallons Per Hour			Operating Pressure	Min. Angle
	150	200	250		
12.0	14.5	17.0	19.0	50°	
14.0	18.0	19.8	22.1	50°	
17.0	20.5	24.0	26.8	50°	
21.0	25.5	29.5	33.2	50°	
24.5	30.0	34.5	38.5	50°	
27.0	33.0	38.0	42.7	50°	
30.0	36.5	42.5	48.5	50°	
34.5	42.0	48.5	54.5	50°	
40.0	49.0	56.6	63.5	50°	
42.0	51.5	59.5	66.5	50°	
45.0	55.0	63.5	71.5	50°	
50.0	61.0	70.5	79.5	50°	
55.0	67.0	78.0	87.0	50°	
60.0	73.0	85.0	95.0	50°	
65.0	80.0	92.5	103.0	50°	
70.0	86.0	99.0	110.0	50°	
78.0	95.5	110.0	123.0	50°	
88.0	107.0	125.0	139.0	60°	
95.0	116.0	135.0	150.0	60°	
100.0	122.0	141.0	158.0	60°	
107.0	131.0	151.0	169.0	60°	
128.0	157.0	181.0	202.0	60°	
140.0	172.0	196.0	222.0	70°	
150.0	184.0	213.0	238.0	70°	
163.0	200.0	231.0	257.0	70°	
170.0	209.0	240.0	268.0	70°	
175.0	215.0	248.0	276.0	70°	
188.0	230.0	266.0	298.0	70°	
200.0	245.0	284.0	317.0	70°	
225.0	275.0	318.0	355.0	70°	
237.0	290.0	333.0	373.0	80°	
241.0	296.0	340.0	381.0	80°	
250.0	305.0	353.0	395.0	80°	
260.0	319.0	368.0	410.0	80°	
280.0	342.0	395.0	455.0	80°	
300.0	370.0	425.0	485.0	80°	
313.0	389.0	443.0	505.0	80°	
327.0	411.0	462.0	535.0	80°	
360.0	436.0	510.0	565.0	80°	
400.0	480.0	565.0	625.0	80°	

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