

# CENTRIFUGAL COMPRESSOR CALCULATION BY THE "N" METHOD

(EXTENSIVE USE OF THE POLYTROPIC EXPONENT, "N")

**Bulbuceni**

NOTE: —> If the gas is pure, begin with STEP 2

		bars			
Inlet temperature °F	68	↓			
Inlet pressure (psia)	217.5	15			
Discharge pressure (psia)	638	44			
Inlet mixture flow rate (kmol/hour)	11247		Nm <sup>3</sup> /h	kmol/h	
			Q <sub>inlet</sub>	252083	11247 = 6613 cfm

## STEP 1 Gas Mixture properties

Gas mixture	1	2	3	4	5	6	7	8	9	10	11
	Mol % each gas	Mol/Hr Mol% x 11246.68	Mol wt. (Table 1)	Mixture Mol wt.	Weight% [(4.4424)]x100	T <sub>c</sub> (Table 1)	P <sub>c</sub> (Table 1)	1 x 6	1 x 7	Mcp (Table 1)	1 x 10
CO2	0.0022	25	44.01	0.10	0.23	548	3073	1.2	2.4	8.71	0.02
N2 (nitrogen)	0.0007	8	28.02	0.02	0.04	228	493	0.2	0.3	6.96	0.00
Methane	0.994	11179	16.04	15.94	36.04	344	673	141.9	669.0	8.38	8.13
Ethane	0.0014	16	30.07	0.04	0.10	550	708	0.8	1.0	12.13	0.02
Propane	0.00069	8	44.09	0.03	0.07	666	617	0.5	0.4	16.82	0.01
i-Butane	0.0002	2	58.12	0.01	0.03	715	529	0.1	0.1	22.1	0.00
n-Butane	0.0001	1	58.12	0.01	0.01	766	551	0.1	0.1	22.83	0.00
i-Pentane	0.0001	1	72.15	0.01	0.02	830	483	0.1	0.0	27.59	0.00
n-Pentane	0.0001	1	72.15	0.01	0.02	847	489	0.1	0.0	28.27	0.00
Hexane	0.0001	1	86.17	0.01	0.02	915	440	0.1	0.0	33.87	0.00
C7+	0.0002	2	100.2	0.02	0.05	973	397	0.2	0.1	39.52	0.00
H2O	0	0	18.02	0.00	0.00	1166	3208	0.0	0.0	7.98	0.00
	0.99979										
<b>TOTAL MIXTURE :</b>		<b>11244</b>		<b>16.19</b>				<b>345.2</b>	<b>673.5</b>		<b>8.406</b>
<b>k Mixture =</b>	<b>1.310</b>										

## STEP 2

Calculate inlet flow (Q1):

Weight flow (w) = 3035 lb./min

P<sub>r1</sub> = 0.2230

T<sub>r1</sub> = 1.53

From Chart 1, Z<sub>1</sub> = 0.975

v<sub>1</sub> = 1.57

Q<sub>1</sub> = 4757 icfm

## STEP 3

From Table 2 we can select the compressor frame which include:

110M

- The available number of stages

6

- Average polytropic efficiency

0.77

- Rpm

2500

- Head per stage (ft.)

10000

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**SJ Ball**



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