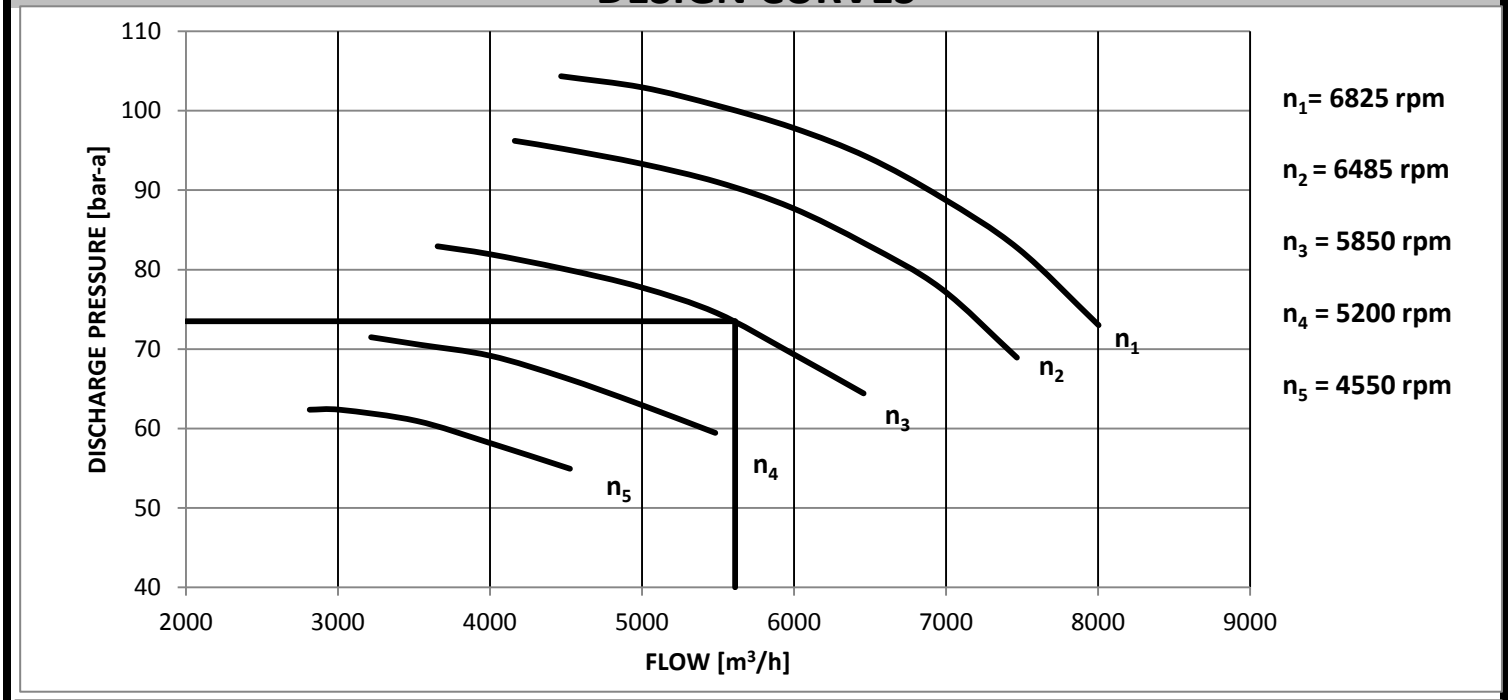
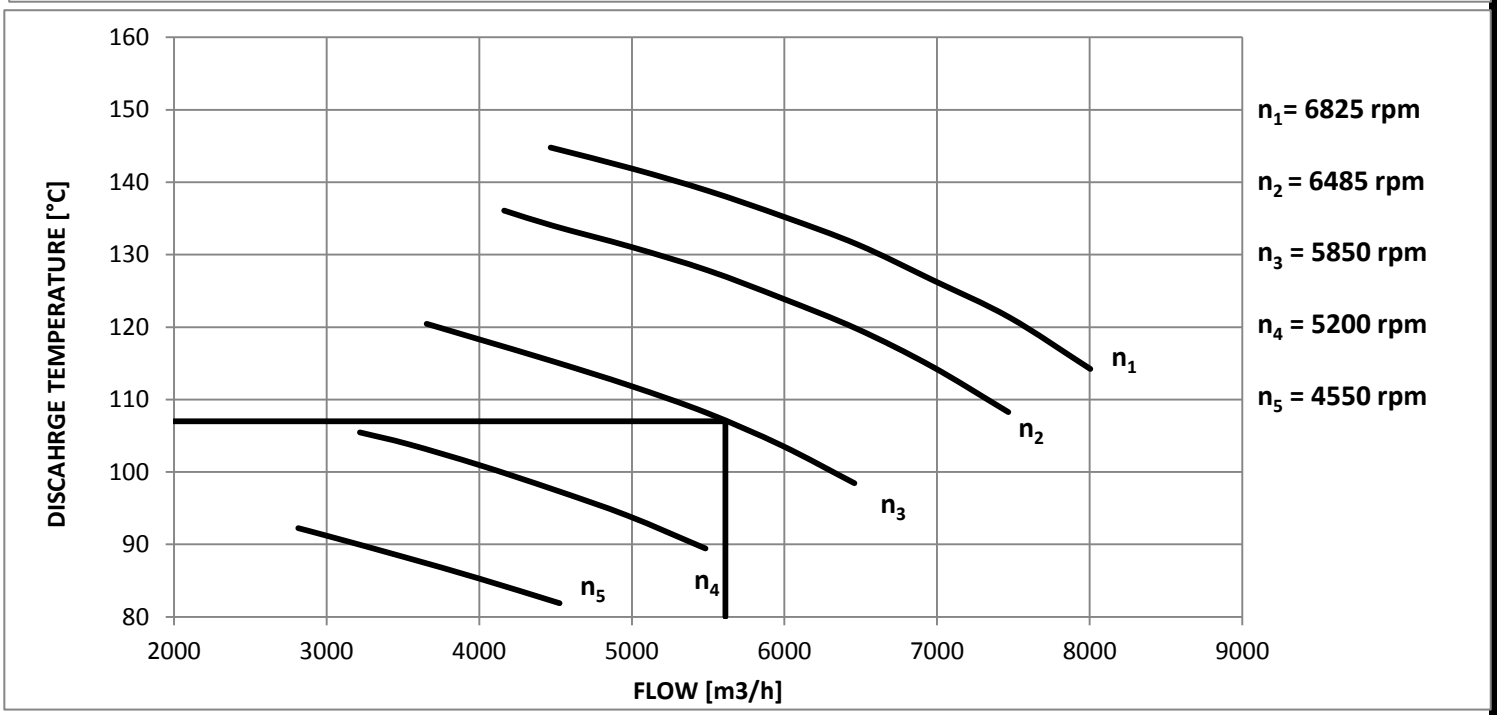
TUTORIAL CENTRIFUGAL COMPRESSOR - MAPS

DESIGN CURVES





THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS

GAS HANDLED	TUTORIAL MIX	
MOLECULAR WEIGHT	19,55	kg/kmol
INLET PRESSURE	40,20	bar-a
INLLET TEMPERATURE	50,00	deg C

CENTRIFUGAL COMPRESSOR SPECIFICATION SHEET

OPERATING CONDITIONS

	Units	Design	Off Design	Freon
Gas Handled		Tutorial mix	Off-design mix	R134a
Flowrate @ Std Conditions	MMSCFD	182,6	132,8	1,87
Flowrate @ Oper. Conditions	m^3/h	5613	4400	2355
Weight Flow	kg/h	178625	125245	9770
INLET CONDITIONS				
Pressure	bar-a	40,2	38	1
Temperature	°C	50	52	30
Molecular Weight	kg/kmol	19,55	18,85	102,03
DISCHARGE CONDITIONS				
Pressure	bar-a	73,5	73,5	1,8
Temperature	°C	107	115	55
Speed	RPM	5850	5850	2454

Gas Analysis		Design	Off Design	Freon
Components	M.W (g/mol)	mol %	mol %	mol %
Nitrogen	28			
Methane	16	80	80	
Ethane	30	15	20	
Propane	44	5		
I-Butane	58			
n-Butane	58			
H2S	34			
CO2	4			
I-Pentane	7			
n-Pentane	72			
n-Hexane	86			
n-Heptane	100			
>C7	>100			
R134a	102			100
TOTAL	%	100	100	100
MOLECULAR WEIGHT	kg/kmol	19,55	18,85	102,03