

CONDENSER PUMP

section	description of the pipe run	size(dia)	flow	straight len	valves & fittings	qty	equalant lenth of fittings	total eqt length OFFITTINGS	TOTAL EQT.LENG TH	head loss ft h2o/100ft	friction lossin ft h2o
A-B	PUMP DISCHARGE LINE	8	1350	6			0	215	221	2.7	5.97
					90 ELBOW LONG	1	11				
					FLEXIBLE CONNECTOR	1	20				
					SWING CHECK VALVE	1	34				
					DRV	1	150				
							30				
		0									
		0									
B-C	PUMP DISCHARGE HEADER	10	1350	41	TEE JOINT	3	13	39	80	0.9	0.72
					MICE	0					
C-D	no used	no	1350	0	TEE JOINT	0	21	0	0	1.89	0.00
					90 ELBOW	0	10				
D-E	CONDENSER SUCTION LINE	8	1350	24				111	135	2.7	3.65
					90 ELBOW LONG	1	11				
					FLEXIBLE CONNECTOR	1	20				
					BV	1	30				
STRAINER	1	50									
CONDENSER											15
E-F	CONDENSER DISCHARGE LINE	8	1350	10	45ELBOW bend	1	10	309	319	2.7	8.61
					90 ELBOW LONG	1	20				
					FLEXIBLE CONNECTOR	1	33				
					TEE	1	20				

					glob valve	1	226				
F-G	no used	NO	1350	0	TEE JOINT			0	0	0.86	0.00
					90 ELBOW						
G-H	no used	NO	153.6	0	TEE JOINT			0	0	1.89	0.00
					90 ELBOW						
H-I	CT DISCHARGE HEADER	12	1350	15	TEE	1	21	1	16	0.36	0.06
						0	0				
COOLING TOWER											15.00
I-K	CT INLET LINELINE	8	1350	30	90 ELBOW LONG	1	20	361	391	2.8	10.95
					FLEXIBLE CONNECTOR	1	20				
					BV	1	30				
					STRAINER	1	30				
					GLOB VALVE	1	226				
					MBV	1	35				
					MICE-						
K-L	CT OUTLET	8	1350	30	90 ELBOW SHORT	1	20	296	326	2.8	9.13
					FLEXIBLE CONNECTOR	1	30				
					STRAINER	1	20				
					GLOB VALVE	1	226				
					MICE-						

L-M	CT-OUTLET HEADER	12	1350	20	TEE	1	13	13	33	0.37	0.12
L-M	PUMP INLET HEADER	10	1350	19	TEE	2	13	26	45	0.9	0.41
						0	13				
						0	0				
						0	0				
L-M	PUMP INLET LINE	8	1350	6	TEE	2	13	56	62	2.8	1.74
					BV	1	30				
					STRAINER						
					FLEXIBLE						
						0	0				
HEAD LOSS IN FT OF WG										67.70	
SAFETY FACTOR									0.15	10.15	
TOTAL HEAD										77.85	
PUMP EFFICIENCY										65%	
PUMP FLOW										1350	
LIQUID SG										1	
PUMP BHP										40.83	