

KESTNER ENGINEERING CO LTD
QUOTE No 11246 REV 2
APPENDIX A

DESCRIPTION	SULPHURIC ACID PUMPS
ITEM NO	P-579/589 – 1&2
MODEL	KSI 50/160
CURVE No	K41747
TYPE	HORIZONTAL END SUCTION
NO OF STAGES	ONE
SUCTION SIZE	80 mm
DISCHARGE SIZE	50 mm
FLANGES	ANSI 150 DRILLING
DUTY FLOWRATE	27.3m3/Hr
DUTY HEAD	22.3 metres
LIQUID	98% W/W H2SO4
DENSITY	1.83
TEMPERATURE	50 Deg. Cent
NPSH reqd	2.25 metres
POWER (ABS)	7.0 kW (APPROX)
POWER (INST)	11 kW
IMPELLER TYPE	CLOSED TYPE
IMPELLER MATERIAL	14.5% HIGH SILICON IRON MATERIAL
VOLUTE MATERIAL	14.5% HIGH SILICON IRON MATERIAL
BACKPLATE MATERIAL	14.5% HIGH SILICON IRON MATERIAL
CORROSION ALLOWANCE	3 mm MINIMUM
SHAFT SEAL	SINGLE MECHANICAL
MANUFACTURER	JOHN CRANE
SEAL TYPE	PTFE EXTERNALTYPE
SPECIFICATION:-	QX1CX/V OR EQUIVALENT
MATERIAL CODE	PTFE vs CERAMIC
SEAL SIZE	45mm
MOTOR MANUFACTURER	ABB
MODEL	PROCESS PERFORMANCE
TYPE	CAST IRON
RATING	MCR
POWER	11 kW
FRAME SIZE	M3BP160MA
FULL LOAD SPEED	2915 rpm
ENCLOSURE	IP 55
INSULATION	CLASS F
TEMP RISE	CLASS B
VOLTAGE	380
PHASE	3
HERTZ	50
SPACER COUPLING	FENAFLEX OR EQUIVALENT
COUPLING GUARD	STEEL
BASEPLATE	CAST IRON

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DESCRIPTION	PHOSPHORIC ACID PUMPS
ITEM NO	P-579/589 – 5&6
MODEL	KSI 50/160
CURVE No	K41747
TYPE	HORIZONTAL END SUCTION
NO OF STAGES	ONE
SUCTION SIZE	80 mm
DISCHARGE SIZE	50 mm
FLANGES	ANSI150 DRILLING
DUTY FLOWRATE	34 m ³ /Hr
DUTY HEAD	30.6 metres
LIQUID	52% W/W H ₃ PO ₄ + TRACES GYPSUM
DENSITY	1.5
TEMPERATURE	50 Deg. Cent
NPSH reqd	2.5 metres
POWER (ABS)	7.0 kW (APPROX)
POWER (INST)	11 kW
IMPELLER TYPE	CLOSED TYPE
IMPELLER MATERIAL	14.5% HIGH SILICON IRON MATERIAL
VOLUTE MATERIAL	14.5% HIGH SILICON IRON MATERIAL
BACKPLATE MATERIAL	14.5% HIGH SILICON IRON MATERIAL
CORROSION ALLOWANCE	3 mm MINIMUM
SHAFT SEAL	SINGLE MECHANICAL
MANUFACTURER	JOHN CRANE
SEAL TYPE	PTFE EXTERNALTYPE
SPECIFICATION:-	QXS1CX/V OR EQUIVALENT
MATERIAL CODE	SILICON CARBIDE vs CERAMIC
SEAL SIZE	45mm
MOTOR MANUFACTURER	ABB
MODEL	PROCESS PERFORMANCE
TYPE	CAST IRON
RATING	MCR
POWER	11 kW
FRAME SIZE	M3BP160MA
FULL LOAD SPEED	2915 rpm
ENCLOSURE	IP 55
INSULATION	CLASS F
TEMP RISE	CLASS B
VOLTAGE	380
PHASE	3
HERTZ	50
SPACER COUPLING	FENAFLEX OR EQUIVALENT
COUPLING GUARD	STEEL
BASEPLATE	CAST IRON

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DESCRIPTION	SULPHURIC ACID PUMPS
ITEM NO	P-579/589-3&4
MODEL	KSI 50/160
CURVE No	K41747
TYPE	HORIZONTAL END SUCTION
NO OF STAGES	ONE
SUCTION SIZE	80 mm
DISCHARGE SIZE	50 mm
FLANGES	ANSI150 DRILLING
DUTY FLOWRATE	34m3/Hr
DUTY HEAD	19.12 metres
LIQUID	70% W/W H2SO4
DENSITY	1.6
TEMPERATURE	50 Deg. Cent
NPSH reqd	2.5 metres
POWER (ABS)	6 kW (APPROX)
POWER (INST)	11 kW
IMPELLER TYPE	CLOSED TYPE
IMPELLER MATERIAL	14.5% HIGH SILICON IRON MATERIAL
VOLUTE MATERIAL	14.5% HIGH SILICON IRON MATERIAL
BACKPLATE MATERIAL	14.5% HIGH SILICON IRON MATERIAL
CORROSION ALLOWANCE	3 mm MINIMUM
SHAFT SEAL	SINGLE MECHANICAL
MANUFACTURER	JOHN CRANE
SEAL TYPE	PTFE EXTERNALTYPE
SPECIFICATION:-	QX1CX/V OR EQUIVALENT
MATERIAL CODE	PTFE vs CERAMIC
SEAL SIZE	45mm
MOTOR MANUFACTURER	ABB
MODEL	PROCESS PERFORMANCE
TYPE	CAST IRON
RATING	MCR
POWER	11 kW
FRAME SIZE	M3BP160MA
FULL LOAD SPEED	2915 rpm
ENCLOSURE	IP 55
INSULATION	CLASS F
TEMP RISE	CLASS B
VOLTAGE	380
PHASE	3
HERTZ	50
SPACER COUPLING	FENAFLEX OR EQUIVALENT
COUPLING GUARD	STEEL
BASEPLATE	CAST IRON