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BROTH

Collection of drawings of a vertical reciprocating gas
compressor

Compiled by John Coppen

Reference Code	Drawing number	Title	Date	Box no.	Notes
BROTH/01	AC/02406	Main Bearings (Centre Bearing) Intermediate Compressor.	16.10.1925	1	Ref. No. 1 . TA.
BROTH/02	AC/02407	Main Bearings (Flywheel Bearing) Intermediate Compressor.	20.10.1925	1	Ref. No. 2 . TA.
BROTH/03	AC/02427	Crankpin Bearing. Intermediate Compressor.	14.10.1925	1	Ref. No. 3 . TA. 1013/8
BROTH/04	AC/03157	No. 3 Unit. Intermediate Compressor. Sectional Arrangement of Two Stage Three Crank Gas Compressor.	None	1	For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 3. TA 10B/1
BROTH/05	AC/02428	Crosshead Brass. Intermediate Compressor.	14.10.1925	1	Ref. 4. TA.
BROTH/06	AC/02845	No. 3 Unit. Gas Circulators. Sectional Arrangement of Three Crank High Pressure Gas Circulating Pump.	None	1	For Messrs. Synthetic Ammonia & Nitrates Ltd. Box 1013/1. No. 4.
BROTH/07	AC/02845	No. 3 Unit. Gas Circulators. Sectional Arrangement of Three Crank High Pressure Gas Circulating Pump.	None	1	Original tracing of the above paper drawing. Ref. Box 1013/1. No. 4.

BROTH/08	AC/02695	No. 3 Unit. High Pressure Compressor. Sectional Arrangement of Two Stage Three Crank Gas Compressor.	None	1	For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 3. TA 10B/1
BROTH/09	AC/02419	Crosshead Slipper. Intermediate Compressor.	8.10. 1925	1	Ref. No. 5. TA.
BROTH/10	AC/02415	False Back and Slipper Guide. Intermediate Compressor.	10.10. 1925	1	AC/02415 & 16 drawn on one sheet. Ref. No. 7. TA
BROTH/11	AC/02416	Crosshead Slipper Guide Bars. Intermediate Compressor.	11.10. 1925	1	AC/02415 & 16 drawn on one sheet. Ref. No. 7. TA
BROTH/12	T.D 71382	No. 3. Unit. Steam Turbine for Driving Intermediate Compressor. Sectional Arrangement of 31" - Five Stage Steam Turbine. Sheet No. 2.	None	1	Coloured sectional drawing. For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. No. 8/2. T. 1013/1.
BROTH/13	T.D 71382	No. 3. Unit. Steam Turbine for Driving Intermediate Compressor. Sectional Arrangement of 31" - Five Stage Steam Turbine. Sheet No. 1.	None	1	Coloured sectional drawing. For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. No. 8/1. T. 1013/1. Damage to top left corner.
BROTH/14	AC/07944	Modification to 2nd Stage Cylinder. I.P. Compressor No. 5 Unit.	29.07. 1929	1	Ref. Box 1013/8 & 9.

BROTH/15	703721	Turbo-Kompressor mit Dampfturbine. Billingham 26.	30.03. 1927	1	Coloured sectional drawing. Ref. 9. T. Box 1013/1.
BROTH/16	D77419	Spindle Arrangement for 1500 H.P. Sets. Turbine Double Redg. Gear.	02.03 1928	1	Coloured sectional drawing. David Brown & Sons, Huddersfield. Linen material. Ref. 10. T.
BROTH/17	E77319	Spindle Arrangement for 2070 H.P. Sets. Turbine Double Redg. Gear.	02.03 1928	1	Coloured sectional drawing. David Brown & Sons, Huddersfield. Linen material. Ref. 11. T. 1013/2.
BROTH/18	AC/02431	Main Bearing Bolts (Flywheel End) Intermediate Compressor.	23.10. 1925	1	AC/02431 & 32 combined on one sheet. Ref 11. TA.
BROTH/19	AC/02432	Main Bearing Bolts (Centre Bearing) Intermediate Compressor.	23.10. 1925	1	AC/ 02431 & 32 combined on one sheet. Ref. 11. TA.
BROTH/20	AC/02421	Coupling Studs (Piston Rod to Crosshead) Intermediate Compressor.	05.10. 1925	1	Ref. 12. TA.
BROTH/21	E 76721	Spindle Arrangement for 3,250 H.P. Sets. Turbine Double Redg. Gear.	Nov. 1925	1	Coloured sectional drawing. David Brown & Sons, Huddersfield. Linen material. Ref. 12. T. Box 1013/2.
BROTH/22	AC/02435	Crankshaft. Intermediate Compressor.	23.10. 1925	1	Ref. 13. TA
BROTH/23	AC/02435	Crankshaft. Intermediate Compressor.	23.10. 1925	1	Ref. 13. TA
BROTH/24	AC/02535	Particulars of Coupling.	10.11. 1925	1	Ref. 14. TA.

		Intermediate Compressor			
BROTH/25	AC/02546	No. 3 Unit. Intermediate Gas Compressor. General Arrangement of Two Stage Three Crank Gas Compressor Driven Through Double Reduction Gear by 3,300 B.H.P. Steam Turbine.	None	1	For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 14. T. 1013/2.
BROTH/26	AC/02410	Coupling Bolts. Intermediate Compressor.	25.11. 1925	1	Ref. 15. TA.
BROTH/27	AC/02547	No. 3 Unit. Intermediate Gas Compressor. General Arrangement of Two Stage Three Crank Gas Compressor Driven Through Double Reduction Gear by 3,300 B.H.P. Steam Turbine.	06.07. 1928	1	For Messrs. Synthetic Ammonia & Nitrate Ltd. Ref. 15. T. 1013/2.
BROTH/28	AC/02450	1st Stage Cylinder. Intermediate Compressor.	Dec. 1929	1	Ref. 16. TA. 1013/8
BROTH/29	AC/02696	No. 3 Unit. High Pressure Gas Compressor. General Arrangement	None	1	Ref. 16. T. Box 1013/2

		of Two Stage Three Crank Gas Compressor Driven Through Double Reduction Gear by 2,200 B.H.P. Steam Turbine.			
BROTH/30	AC/02461	Cylinder Distance Piece. Intermediate Compressor.	None	1	Ref. 17. TA. 1013/8.
BROTH/31	AC/02697	No. 3 Unit. High Pressure Gas Compressor. General Arrangement of Two Stage Three Crank Gas Compressor Driven Through Double Reduction Gear by 2,200 B.H.P. Steam Turbine.	06.07. 1928	1	For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 17. T. Box 1013/2. Torn on right hand side.
BROTH/32	AC/02846	No. 3 Unit. High Pressure Gas Circulating Pumps. General Arrangement of Three Crank Gas Circulating Pump Driven Through Double Reduction Gear by 1,500 B.H.P. Steam Turbine.	None	2	Elevation Drawing. Not unfolded. For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 18. T. Box 1013/1.

BROTH/33	AC/02452	2nd Stage Cylinder Cover. Intermediate Compressor.	None	2	Ref. 18. TA. 1013/8.
BROTH/34	AC/02462	Cylinder Tray. Intermediate Compressor.	24.11. 1925	2	Ref. 19. TA.
BROTH/35	AC/02847	No. 3 Unit. High Pressure Gas Circulating Pumps. General Arrangement of Three Crank Gas Circulating Pump Driven Through Double Reduction Gear by 1,500 B.H.P. Steam Turbine.	06.07. 1928	2	Plan View. For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 19. T. Box 1013/1.
BROTH/36	AC/02456	2nd Stage Cylinder Liner. Intermediate Compressor.	10.05. 1926	2	Ref. 20. TA. 1013/8
BROTH/37	AC/03291 A	No. 3 Unit. General Arrangement of Motor Driven, Five Stage, Three Crank Nitrogen Compressor.	09.07. 1928	2	For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 20. T.
BROTH/38	AC/03292 A	No. 3 Unit. General Arrangement of Motor Driven, Five Stage, Three Crank Nitrogen Compressor.	09.07. 1928	2	For Messrs. Synthetic Ammonia & Nitrates Ltd. Ref. 21. T.

BROTH/39	AC/03896 A	Oil Service Arrangement. I.P. Gas Compressor.	04.01. 1927	2	Ref. 21 TA.
BROTH/40	AC/03171	Oil Service Arrangement in Bedplate. Intermediate Compressor.	05.10. 1926	2	For details of oil distributor and fittings see drg: AC/03172. Ref. 22. TA.
BROTH/41	AC/07944	Modification to 2nd Stage Cylinder. I.P. Compressor No. 5 Unit.	29.07. 1929.	2	Ref. 23. TA. 1013/8.
BROTH/42	AC/07944	Modification to 2nd Stage Cylinder. I.P. Compressor No. 5 Unit.	29.07. 1929.	2	Ref. 23. TA.
BROTH/43	AC/06371	Foundation Wedge. I.P. Gas Compressor	27.06. 1928	2	AC/06371,72 & 73 combined on one sheet, 700mm x 1040mm. Ref. 24. TA.
BROTH/44	AC/06372	Foundation Wedge. H.P. Gas Compressor	27.06. 1928	2	AC/06371,72 & 73 combined on one sheet, 700mm x 1040mm. Ref. 24. TA.
BROTH/45	AC/06373	Foundation Wedge. Gas Circulator.	27.06. 1928	2	AC/06371,72 & 73 combined on one sheet, 700mm x 1040mm. Ref. 24. TA.
BROTH/46	AC/06375	Positions for Foundation Wedges. I.P. & H.P. Compressors & Gas Circulator.	02.07. 1928	2	Ref. 25. TA.
BROTH/47	AC/06051	Bolts for False Back. I.P. Compressor.	17.04. 1928	2	Ref. 31. TA.
BROTH/48	AC/05935	Elbow Fitting for Guides. H.P. & I.P. Compressors & Gas Circulator.	29.03. 1928	2	Ref. 32. TA.

BROTH/49	AC/06052	1¼" BSP Bend for Oil Supply to Guides. I.P. Compressor.	18.04. 1928.	2	Ref. 33. TA.
BROTH/50	AC/06111	Bracket for Oil Level Gauge. I.P. & H.P. Compressors & Circulator.	09.05. 1928	2	AC/06111 & 12 combined on one sheet. Ref. 34-5. TA.
BROTH/51	AC/06112	Oil Outlet Pipe from Compressor to Strainer. I.P. & H.P. Compressors.	10.05. 1928	2	AC/06111 & 12 combined on one sheet. Ref. 34-5. TA.
BROTH/52	AC/06708	Particulars of Driving Chain & Sprockets for Tachometer.	16.10. 1928	2	Ref. 36. TA. 1013/9
BROTH/53	AC/06125	Syphon Tube. I.P. & H.P. Compressors.	11.05. 1928.	2	Ref. 37. TA.
BROTH/54	AC/06715	Supporting Box for P.G. Pipe. I.P. & H.P. Compressors.	27.11. 1928.	2	REF. 38. TA.
BROTH/55	AC/05847	Supports for Escape Gas Return Pipe. Intermediate Compressor.	21.02. 1928	2	AC/05847 & 48 combined on one sheet. Ref. 40. TA.
BROTH/56	AC/05848	Supports for Escape Gas Return Pipe. Intermediate Compressor.	22.02. 1928	2	AC/05847 & 48 combined on one sheet. Ref. 40. TA.
BROTH/57	AC/06298	Indicator Connection (1st Stage) Intermediate & H.P. Compressor	02.06. 1928.	2	AC/06298 & 99 combined on one sheet. Ref. 42. TA.
BROTH/58	AC/06299	Indicator Connection Intermediate & H.P.	02.06. 1928.	2	AC/06298 & 99 combined on one sheet. Ref. 42. TA.

		Compressor			
BROTH/59	AC/06077	Landing Platform (Top & Middle Ladders) I.P. Gas Compressor.	26.04.1928.	2	Ref. 43. TA.
BROTH/60	AC/06069	Middle Ladder. I.P. Gas Compressor.	24.04.1928	2	AC/06069 & 70 combined on one sheet. Ref. 45. TA.
BROTH/61	AC/06070	Top Ladder. I.P. Gas Compressor.	25.04.1928.	2	AC/06069 & 70 combined on one sheet. Ref. 45. TA.
BROTH/62	AC/06081	Top Ladder Support. I.P. & H.P. Gas Compressor.	27.04.1928	2	AC/06081 & 82 combined on one sheet. Ref. 46-7. TA.
BROTH/63	AC/06082	Pad for Top Ladder Support. I.P. & H.P. Gas Compressor.	27.04.1928	2	AC/06081 & 82 combined on one sheet. Ref. 46-7. TA.
BROTH/64	AC/06071	Channel Support for Top Ladder. I.P. Compressor.	25.04.1928	2	AC/06071, 72 & 73 combined on one sheet. Ref. 48-50. TA.
BROTH/65	AC/06072	Angle Stiffener for Landing Platform.. I.P. Gas Compressor.	27.04.1928	2	AC/06071, 72 & 73 combined on one sheet. Ref. 48-50. TA.
BROTH/66	AC/06073	Channel Tie for Landing Platform.. I.P. Compressor.	27.04.1928	2	AC/06071, 72 & 73 combined on one sheet. Ref. 48-50. TA.
BROTH/67	AC/02644	Inspection Door (1st Stage Cylinders). I.P. & H.P. Compressors.	10/01/1928	2	Ref. 51. TA. 1013/9.
BROTH/68	AC/06026	Arrangement of Oil , Pressure Gauge and	26.10.1928	2	Ref. 52. TA.

		Indicator Pipes to Cylinders. I.P. Compressor.			
BROTH/69	AC/06747	Arrangement of Oil Feed Piping from Lubrication Stands. I.P. Compressor.	04.01. 1929	2	For Plan of Oil Piping see AC/06747A. Ref. 53. TA.
BROTH/70	AC/06747 A	Plan of Oil Feed Piping from Lubrication Stands. I.P. Compressor.	05.01. 1929	2	For Elevation see Drawing No. AC/06747. Ref. 54. TA.
BROTH/71	AC/08077	No. 4 & 5 Units. Intermediate Compressor. Sectional Arrangement of Two Stage Three Crank Gas Compressor.	None	2	Ref. 55. TA. Box 1013/9.
BROTH/72	AC/08077	No. 4 & 5 Units. Intermediate Compressor. Sectional Arrangement of Two Stage Three Crank Gas Compressor.	None	2	Ref. 55. TA.
BROTH/73	AC/03837	Tank for Turbo Oil Pump. Intermediate & H.P. Compressor.	20.01. 1927	2	Ref. 56. TA.
BROTH/74	AC/03838	Cleaning Door for Tank for Turbo Oil Pump. H.P. & I.P. Compressor & Gas Circulators.	20.01. 1927	2	Ref. 57. TA.

BROTH/75	AC/02939 7	2nd Stage Plunger Head. I.P. Compressor.	08.06. 1950	2	Ref. 58 Box 1013/9. TA.
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