PLAINTIFF'S EXHIBIT

DOW-2456



PROCESS
20 PERCENT HYDROCHLORIC ACID
100 PSIG AT 250F

| ITEM | SIZE | DESCRIPTION |
|---|---|---|
| PIPE | | |
| P-14B | 1 THRU 8 | KYNAR LINED STEEL PIPE, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY. |
| N-26 | | ALL PLASTIC LINED PIPE SHALL BE FABRICATED TO EXACT LENGTHS REQUIRED WITH MOLDED RAISED FACE (MORAF <R>) FLANGED ENDS. |
| N-10 | | FOR TYPICAL CONNECTIONS AND ASSEMBLY OF DOW PLASTIC LINED STEEL PIPE AND FITTINGS SEE JOB DETAILS. |
| FITTINGS | | |
| E=90 DEG ELL, L=45 DEG ELL, T=TEE, X=CROSS, R=REDUCER C=COUPLING, S=STUB END, U=UNION, PC=PIPE CAP | | |
| ELTR-91C | 1 THRU 8 | 150-LB FLANGED KYNAR LINED CARBON STEEL FITTINGS, ASTM A-216 GR WCB, ANSI B16.5, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY. |
| FLANGES | | |
| F-40C | 1 THRU 3 | 150-LB THREADED, DUCTILE IRON CHAMFERED FLANGE, ASTM A-395, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY. |
| F-100T | 1 THRU 8 | 150-LB TEFLON (TFE) LINED DUCTILE IRON REDUCING FILLER FLANGE, ASTM A-395, ANSI B16.5, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY. |
| F-3-RF | 1 THRU 8 | 150-LB RAISED FACE BLIND FLANGE, ASTM A-105, ANSI B16.5. |
| BRANCH CONNECTIONS | | |
| BC-95F | | FOR FLANGED PIPING USE STRAIGHT SIZE OR REDUCING TEE, REDUCER OR REDUCING FLANGE, AS INDICATED ON DRAWINGS. |



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| ITEM | SIZE | DESCRIPTION |
|---|---|---|
| GASKETS | | |
| G-18 | 1 THRU 8 | STD FLAT RING GASKET, 1/8 INCH THICK ETHYLENE PROPYLENE RUBBER. PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY, FOR USE WITH DOW PLASTIC LINED STEEL PIPE. |
| FLANGE BOLTS | | |
| B-A307BG | 1 THRU 8 | ASTM A-307 GR B HEAVY HEX OR SQUARE HEAD GALV MACHINE BOLTS WITH HEAVY HEX GALV NUTS. |
| BOLT LUBRICANT | | |
| BL-5 | | JET-LUBE SS-30 COPPER ANTI-SEIZE COMPOUND. |
| VALVES | | |
| V-823 | 1 THRU 4 | 150-LB FLANGED PLUG VALVE, TEFLON LINED DUCTILE IRON BODY AND PLUG, WRENCH OPERATOR. DURCO T-LINE TUFLINE 061 UNION 15A2HHE |
| V-823G | 6 THRU 8 | 150-LB FLANGED PLUG VALVE, TEFLON LINED DUCTILE IRON BODY AND PLUG, WEATHERPROOF GEAR OPERATOR. DURCO T-LINE-H TUFLINE 061EG UNION 15A2HHE |
| V-SP-30 | 1 THRU 3 | 150-LB FLANGED DIAPHRAM VALVE, TEFLON-LINED DUCTILE IRON BODY, TEFLON DIAPHRAM. HILLS-MCCANNA 2992 |

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