

## Combined Equipment List

Job Name - IAG Sandridge

Date - 5/26/2009 Rev - A

Sales Order - 294100

Number of Systems 1

Engineer - TTP

Unit Description - York M555BA Compressor Driveline

Job Name - IAG Sandridge

Sales Order - 294100 -

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
C-1231	29410052P01	659D2146(1) C5	<p>COMPRESSOR, CENTRIFUGAL; YORK; MODEL NUMBER: M555BA; CAST IRON; 3217 RPM, 3557 SHP, TO COMPRESS 7842.6 LB/MIN OF R-134A FROM 17.3 PSIA AND -5.5°F SUCTION TO 128.11 PSIA AND 135.88°F DISCHARGE; WITH SIDE LOAD FLOW OF 4582.2 LB/MIN TO SUCTION OF SECOND STAGE, AND SIDE LOAD FLOW OF 1686.3 LB/MIN TO SUCTION OF FOURTH STAGE; ALUMINUM IMPELLERS; COST INCLUDES ONE TIME ADD FOR EXPIDITED DELIVERY, ALL COMPONENTS/EQUIPMENT SHALL BE TAGGED WITH POST SCRIPT A,B,C,D,E,F</p> <p>YORK ORDER NO. 08-177539-01, FRICK PURCHASE ORDER P307412; PER YORK AES 1500.01REV4 DATA SHEET AND EQUIPMENT ORDER FORM.</p> <p>REQUEST DELIVERY FOR TWO COMPRESSORS 6/30/09 (UNIT TAG A AND B TO FRICK)</p> <p>REQUEST DELIVERY FOR TWO COMPRESSORS 7/30/09 (UNIT TAG C TO FRICK, UNIT TAG D TO SAN ANTONIO)</p> <p>REQUEST DELIVERY FOR TWO COMPRESSORS 8/30/09 (UNIT TAG E AND F TO SAN ANTONIO)</p>
CG-1231	29410052P08	659D2147(1) C6	<p>GEAR, SPEED INCREASER; LUFKIN; MODEL NUMBER: N1800C; CAST IRON; PER API 613 STANDARDS, WITH 1.4 API SF MIN; TO TRANSMIT 4000 HP FROM ELECTRIC MOTOR AT 1772 RPM TO CENTRIFUGAL COMPRESSOR AT 3217 RPM; WITH SPARK PROOF L.S. COUPLING GUARD AND SHIM SET; HYDRAULICALLY RELEASING (KEYLESS) H.S. SHAFT EXTENSION, FOR 3.75" RIVERHAWK COUPLING HUB; CYLINDRICAL LS SHAFT EXTENSION WIH 6.5" DIA AND SINGLE KEYWAY; SS TAGGING ON ALL INSTRUMENTATION AND LUBE OIL CONNECTION; CS BODY SHAFT DRIVEN OIL PUMP; IMMERSION HEATER W/ BUILT IN THERMOSTAT; PROVISIONS FOR OIL SUMP TEMP SENSOR AND LOW OIL LEVEL SWITCH; VERTICAL LIQUID LEVEL GAUGE; OIL SUMP CLEAN OUT; 8 BENTLY NEVADA 3300XL VIBRATION PROBES, 2 EACH JOURNAL BEARING; 1 KEY PHASOR PROBE ON L.S. SHAFT, 1 CASE MOUNTED ACCELEROMETER ON L.S. SHAFT EXTENSION, BEARING HOUSING, HORIZONTAL LOCATION BELOW PARTING LINE; 4 MINCO 100 OHM DUPLEX EMBEDDED RTD'S, 1 EACH JOURNAL; 1 PROBE TYPE DUPLEX RTD IN SUMP OIL WITH SS THERMOWELL; COST INCLUDES TESTING AND INSPECTIONS PER JOB SPECIFICATIONS, LUFKIN 12/24 STANDARD WARRANTY, PROVISIONS FOR</p>

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			<p>TORSIONAL DEVICE ON GEAR CASING. INCLUDE DAMPED ROTOR RESPONSE ANALYSIS REPORTS FOR EACH SHAFT BY A INDEPENDENT ROTOR DYNAMICS CONSULTANT, ALL COMPONENTS/EQUIPMENT SHALL BE TAGGED WITH POST SCRIPT A,B,C,D,E,F</p> <p>PER SPEED INCREASER SPECIFICATION DATA SHEET (AES 1900.02) DATED 11/4/08, LUFKIN QUOTE NUMBER BAL-195-08, REV 4, E-MAIL MEMORANDUM DATED 2/20/09. MATERIAL SOURCING STATEMENT DATE 9/22/08, AND ASME B31.3 PIPING CODE.</p> <p>REQUEST DELIVERY FOR TWO GEARS 7/25/09 (UNIT A AND B TO FRICK)</p> <p>REQUEST DELIVERY FOR TWO GEARS 8/1/09 (UNIT C TO FRICK, UNIT D TO SAN ANTONIO)</p> <p>REQUEST DELIVERY FOR TWO GEARS 8/30/09 (UNIT E AND F TO SAN ANTONIO)</p>
CM-1231	29410052P06	659D2147(1) C4	<p>MOTOR, INDUCTION; 5014 FRAME; TECO WESTINGHOUSE; 4000 HP RATING, 1800 RPM SYNC SPEED, 4000V/3PH/60HZ MAIN POWER, WPII ENCLOSURE, 5014 FRAME SIZE, 1.0 SF, AMBIENT TEMP 40°C, 80°C TEMP RISE @ 1.0 SF BY RTD, SELF LUBE SPLIT SLEEVE BEARING, 3380 FT MAX ELEVATION, 80% MIN VOLTAGE STARTING, 4300 LB FT<sup>2</sup> LOAD INERTIA, CLASS F INSULATION, SS HARDWARE, 240 V SPACE HEATER TO OPERATE @ 120 V SINGLE PHASE, 85 DBA @ 3 FT, CLASS 1 DIV 2 GRP C&amp;D T3, CURRENT TRANSFORMER, NEMA 4 MAIN AND AUX BOXES, BENTLEY NEVADA 3300 XL 4 VIBRATION PROBES 4 VIBRATION PROXIMETERS+ HOUSING, VERTICAL JACKING BOLTS, 6 STATOR RTD'S 2 BEARING RTD'S, API 541 ROUTINE TEST INCLUDED, COST INCLUDES THREE 50:5 WINDOW TYPE DIFFERENTIAL CURRENT TRANSFORMERS, ALL COMPONENTS/EQUIPMENT SHALL BE TAGGED WITH POST SCRIPT A,B,C,D,E,F</p> <p>PER ATTACHED QUOTE AND AES 2000.2 REV 1, REF QUOTE NUMBER 080912DSC01DSC02</p> <p>REQUEST DELIVERY FOR FIRST TWO MOTORS 7/25/09 (UNIT A AND B TO FRICK)</p> <p>REQUEST DELIVERY FOR SECOND TWO MOTORS 8/1/09 (UNIT C TO FRICK, UNIT D TO SAN ANTONIO)</p> <p>REQUEST DELIVERY FOR THIRD TWO MOTORS 8/30/09 (UNIT E AND F TO SAN ANTONIO)</p>
CPLG-400	29410052P14	659D2149(1) C7	<p>COUPLING, LOW SPEED; 500; REXNORD; MODEL NUMBER: THOMAS SERIES 71; MOTOR-GEAR COUPLING, GEAR TYPE WITH LIMITED END FLOAT (±2.4MM), TO HANDLE 4000 HP AT 1800 RPM, WITH A</p>

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			CENTER SLEEVE DISTANCE OF 18", AND A 1.5 SF. GEAR END HUB TO SUIT 6.5 DIA SHAFT WITH 1.5" X 0.50" KEYSEAT, MOTOR END HUB TO SUIT 5.375" DIA SHAFT WITH 1.25" X 1.25" KEY. KEYS SHOULD BE MACHINED 180° APART, BORES OF COUPLING TO BE INTERFERENCE FIT, COUPLING TO MET ALL API 671 REQUIREMENTS. PLEASE PROVIDE APPROVAL DRAWINGS WITH DIMENSIONS, WEIGHT, WR <sup>2</sup> , INERTIA AND STIFFNESS. REFERENCE ATTACHED QUOTE DATED 1/14/09, AES 1700.02, AND COMP/GEAR SHAFT DETAIL DRAWINGS.
CV-401	29410052P25	659D2146(1) B7	VALVE, CHECK; 1 1/2" FSW; VOGT; MODEL NUMBER: 718ZLN; SS ASTM A182; PISTON CHECK; HORIZONTAL TYPE; BOLTED STAINLESS STEEL BODY BONNET; 13% CR STEEL TRIM; NEOPRENE SEALS; 2000 PSIG DWP;DWT -20 F TO + 400 F; 1.28" DIA OF INTEGRAL SEAT
CV-402	29410052P25	659D2146(1) B6	VALVE, CHECK; 1 1/2" FSW; VOGT; MODEL NUMBER: 718ZLN; SS ASTM A182; PISTON CHECK; HORIZONTAL TYPE; BOLTED STAINLESS STEEL BODY BONNET; 13% CR STEEL TRIM; NEOPRENE SEALS; 2000 PSIG DWP;DWT -20 F TO + 400 F; 1.28" DIA OF INTEGRAL SEAT
CV-403	29410052P25	659D2146(1) A6	VALVE, CHECK; 1 1/2" FSW; VOGT; MODEL NUMBER: 718ZLN; SS ASTM A182; PISTON CHECK; HORIZONTAL TYPE; BOLTED STAINLESS STEEL BODY BONNET; 13% CR STEEL TRIM; NEOPRENE SEALS; 2000 PSIG DWP;DWT -20 F TO + 400 F; 1.28" DIA OF INTEGRAL SEAT
CV-405	29410052P25	659D2146(1) B7	VALVE, CHECK; 1 1/2" FSW; VOGT; MODEL NUMBER: 718ZLN; SS ASTM A182; PISTON CHECK; HORIZONTAL TYPE; BOLTED STAINLESS STEEL BODY BONNET; 13% CR STEEL TRIM; NEOPRENE SEALS; 2000 PSIG DWP;DWT -20 F TO + 400 F; 1.28" DIA OF INTEGRAL SEAT
CV-406	956A0029H04	659D2146(1) B4	VALVE, CHECK; 3/4" FSW; VOGT; MODEL NUMBER: 701ZLN; CS ASTM A105; PISTON CHECK; HORIZONTAL TYPE; BOLTED CARBON STEEL BODY BONNET; 13% CR STEEL TRIM; NEOPRENE SEALS; 2000 PSIG DWP;DWT -20 F TO + 400 F; 0.50" DIA OF INTEGRAL SEAT
CV-501	29410052P25	659D2147(1) C7	VALVE, CHECK; 1 1/2" FSW; VOGT; MODEL NUMBER: 718ZLN; SS ASTM A182; PISTON CHECK; HORIZONTAL TYPE; BOLTED STAINLESS STEEL BODY BONNET; 13% CR STEEL TRIM; NEOPRENE SEALS; 2000 PSIG DWP;DWT -20 F TO + 400 F; 1.28" DIA OF INTEGRAL SEAT
CV-502	29410052P25	659D2147(1) C7	VALVE, CHECK; 1 1/2" FSW; VOGT; MODEL NUMBER: 718ZLN; SS ASTM A182; PISTON CHECK; HORIZONTAL TYPE; BOLTED STAINLESS STEEL BODY BONNET; 13% CR STEEL TRIM; NEOPRENE SEALS; 2000 PSIG DWP;DWT -20 F TO + 400 F; 1.28" DIA OF INTEGRAL SEAT
FCV-1231A4	29410052P15	659D2146(1) D7	FLOW CONTROL VALVE; 1/4" FPT; PARKER; MODEL NUMBER: F400SS; SS; WITH STANDARD NEEDLE, STANDARD KNOB, AND NITRILE SEAT, SEE ATTACHED QUOTE DATED 10/24/08

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FG-1231A10	29410052P24	659D2147(1) B5	SIGHT GLASS; 1 1/2; PHILLIPS; MODEL NUMBER: 1100 SC; SS; STAINLESS STEEL LEVEL EYE, FOR REFRIGERANT SERVICE, 1000 PSI/69 BAR WORKING PRESSURE LIMIT, 304 SS MATERIAL CONSTRUCTION, CLEAR LENS, NO FROST SHEILD, STANDARD NEOPRENE GASKETS, 1100SC-CANADIAN REGISTERED (ALL PROVINCES)SADDLE MILLED AT 2 1/4" RADIUS  PER ATTACHED QUOTE AND SKETCH
FG-1231A11	29410052P24	659D2147(1) B5	SIGHT GLASS; 1 1/2; PHILLIPS; MODEL NUMBER: 1100 SC; SS; STAINLESS STEEL LEVEL EYE, FOR REFRIGERANT SERVICE, 1000 PSI/69 BAR WORKING PRESSURE LIMIT, 304 SS MATERIAL CONSTRUCTION, CLEAR LENS, NO FROST SHEILD, STANDARD NEOPRENE GASKETS, 1100SC-CANADIAN REGISTERED (ALL PROVINCES)SADDLE MILLED AT 2 1/4" RADIUS  PER ATTACHED QUOTE AND SKETCH
FG-1231A6	29410052P19	659D2146(1) B4	SIGHT GLASS; 1 1/2" FSW; JACOBY TARBOX; MODEL NUMBER: S-100-HP; CS ASTM A-216 WCB; NEOPRENE GASKET; 600 PSIG DESIGN WORKING PRESSURE; COMPLETE WITH FLAPPER INSTALLED; FOR HORIZONTAL OR VERTICAL LINES; 1 1/2" DIAMETER GLASS.  LIKE PART NUMBER 947A0011H04, BUT WITH NEOPRENE GASKET
FG-1231A8	29410052P24	659D2146(1) A6	SIGHT GLASS; 1 1/2; PHILLIPS; MODEL NUMBER: 1100 SC; SS; STAINLESS STEEL LEVEL EYE, FOR REFRIGERANT SERVICE, 1000 PSI/69 BAR WORKING PRESSURE LIMIT, 304 SS MATERIAL CONSTRUCTION, CLEAR LENS, NO FROST SHEILD, STANDARD NEOPRENE GASKETS, 1100SC-CANADIAN REGISTERED (ALL PROVINCES)SADDLE MILLED AT 2 1/4" RADIUS  PER ATTACHED QUOTE AND SKETCH
FG-1231A9	29410052P24	659D2146(1) A6	SIGHT GLASS; 1 1/2; PHILLIPS; MODEL NUMBER: 1100 SC; SS; STAINLESS STEEL LEVEL EYE, FOR REFRIGERANT SERVICE, 1000 PSI/69 BAR WORKING PRESSURE LIMIT, 304 SS MATERIAL CONSTRUCTION, CLEAR LENS, NO FROST SHEILD, STANDARD NEOPRENE GASKETS, 1100SC-CANADIAN REGISTERED (ALL PROVINCES)SADDLE MILLED AT 2 1/4" RADIUS  PER ATTACHED QUOTE AND SKETCH
FT-1231A1	29410023P07	659D2149(1) B6	TRANSMITTER, FLOW; ROSEMOUNT; 3051SFADG240ZCHLS2A100052AA1A2Q4K5M5T1D1RL 3051SFA - ProBar Flowmeter D - Measurement Type - Differential Pressure (Uncompensated) G - Fluid Type - Gas 240 - Line Size, 24 inch (600 mm)

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			<p>Z - Pipe ID Range - Non-Standard Pipe ID Range Or Above 12" Line Size  C - Pipe Material / Mounting Assembly Material - Carbon Steel  H - Piping Orientation - Horizontal Piping  L - Annubar Type - Flange-Lok  S - Sensor Material, 316 Stainless Steel  2 - Sensor Size - Sensor Size 2  A1 - Mounting Type - 150# RF ANSI  0 - Opposite Side Support or Packing Gland - No Opposite Side Support Or Packing Gland  0 - Isolation Valve for Flo-Tap Models - Not Applicable  0 - Temperature Measurement - No Temperature Sensor  5 - Transmitter Connection Platform - Direct-Mount 5-Valve Manifold  2 - Differential Pressure Range - 0 to 250 In H20 (0 to 623 Mbar)  A - Static Pressure Range - None, Single Variable Device  A - Output Protocol - 4-20 mA with digital signal based on HART protocol  1A - Electronics Housing Style/Material/Conduit - Plantweb Housing Alum 1/2-14 NPT  2 - Electronics Performance Class - Classic: 1.1% flow rate accuracy, 8:1 flow turndown, 5-year stability  Q4 - Calibration Data Certificate for Transmitter  K5 - Product Certifications - FM Explosion-proof, Dust Ignition-proof, Intrinsically Safe, Division 2 (combination of E5 and I5)  M5 - Display - PlantWeb LCD Display (Requires PlantWeb housing)  T1 - Transient Terminal Block  D1 - Special Configuration, Hardware Adjustment (Zero, Span, Security)  RL - Surface Finish for Low Pipe Reynolds# In Gas &amp; Steam CALIBRATED RANGE 0- 10000 FT3 / MIN</p>
FT-1231A2	29410023P08	659D2149(1) B5	<p>TRANSMITTER, FLOW; ROSEMOUNT;  3051SFADG120DCHLS2A100051AA1A2Q4K5M5T1D1RL  3051SFA - ProBar Flowmeter  D - Measurement Type - Differential Pressure (Uncompensated)  G - Fluid Type - Gas  120 - Line Size, 12 inch (300 mm)  D - Pipe ID Range - Range D from the Pipe ID Table  C - Pipe Material / Mounting Assembly Material - Carbon Steel  H - Piping Orientation - Horizontal Piping  L - Annubar Type - Flange-Lok  S - Sensor Material, 316 Stainless Steel  2 - Sensor Size - Sensor Size 2  A1 - Mounting Type - 150# RF ANSI  0 - Opposite Side Support or Packing Gland - No Opposite Side Support Or Packing Gland  0 - Isolation Valve for Flo-Tap Models - Not Applicable  0 - Temperature Measurement - No Temperature Sensor  5 - Transmitter Connection Platform - Direct-Mount 5-Valve Manifold  1 - Differential Pressure Range - 0 to 25 In H20 (0 to 62.2 Mbar)</p>

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FT-1231A3	29410023P06	659D2149(1) C6	<p>A - Static Pressure Range - None, Single Variable Device  A - Output Protocol - 4-20 mA with digital signal based on HART protocol  1A - Electronics Housing Style/Material/Conduit - Plantweb Housing Alum 1/2-14 NPT  2 - Electronics Performance Class - Classic: 1.1% flow rate accuracy, 8:1 flow turndown, 5-year stability  Q4 - Calibration Data Certificate for Transmitter  K5 - Product Certifications - FM Explosion-proof, Dust Ignition-proof, Intrinsically Safe, Division 2 (combination of E5 and I5)  M5 - Display - PlantWeb LCD Display (Requires PlantWeb housing)  T1 - Transient Terminal Block  D1 - Special Configuration, Hardware Adjustment (Zero, Span, Security)  RL - Surface Finish for Low Pipe Reynolds# In Gas &amp; Steam CALIBRATED RANGE 0-2000 FT3 / MIN</p> <p>TRANSMITTER, FLOW; ROSEMOUNT;  3051SFADG160ZCHLS2A100052AA1A2Q4K5M5T1D1RL  3051SFA - ProBar Flowmeter  D - Measurement Type - Differential Pressure (Uncompensated)  G - Fluid Type - Gas  160 - Line Size, 16 inch (400 mm)  Z - Pipe ID Range - Non-Standard Pipe ID Range Or Above 12" Line Size  C - Pipe Material / Mounting Assembly Material - Carbon Steel  H - Piping Orientation - Horizontal Piping  L - Annubar Type - Flange-Lok  S - Sensor Material, 316 Stainless Steel  2 - Sensor Size - Sensor Size 2  A1 - Mounting Type - 150# RF ANSI  0 - Opposite Side Support or Packing Gland - No Opposite Side Support Or Packing Gland  0 - Isolation Valve for Flo-Tap Models - Not Applicable  0 - Temperature Measurement - No Temperature Sensor  5 - Transmitter Connection Platform - Direct-Mount 5-Valve Manifold  2 - Differential Pressure Range - 0 to 250 In H2O (0 to 623 Mbar)  A - Static Pressure Range - None, Single Variable Device  A - Output Protocol - 4-20 mA with digital signal based on HART protocol  1A - Electronics Housing Style/Material/Conduit - Plantweb Housing Alum 1/2-14 NPT  2 - Electronics Performance Class - Classic: 1.1% flow rate accuracy, 8:1 flow turndown, 5-year stability  Q4 - Calibration Data Certificate for Transmitter  K5 - Product Certifications - FM Explosion-proof, Dust Ignition-proof, Intrinsically Safe, Division 2 (combination of E5 and I5)  M5 - Display - PlantWeb LCD Display (Requires PlantWeb housing)  T1 - Transient Terminal Block  D1 - Special Configuration, Hardware Adjustment (Zero, Span, Security)</p>

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FV-1231A1	29410052P32	659D2149(1) C4	<p>RL - Surface Finish for Low Pipe Reynolds# In Gas &amp; Steam CALIBRATED RANGE 0-4000 FT3 / MIN</p> <p>VALVE, CONTROL; 8" X 6" 150# RF; FISHER; MODEL NUMBER: 585C-EWT; WCC STEEL; WHISPERFLO, X LEVEL, NOISE ATTENUATING CAGE, TRIM # 901, 410 SST PLUG AND CAGE, 416 SST SEAT RING, NITRILE BACK UP RING, 5.375" PORT, ANSI CLASS IV LEAKAGE RATE, DOUBLE PTFE PACKING FOR PRESSURE/VACUUM SERVICE. THE ACTUATOR IS A SIZE 60 PISTON STYLE, 60 PSIG MINIMUM AIR SUPPLY, 5" TRAVEL, AIR TO CLOSE/FAIL OPEN ACTION ACHIEVED BY USING A TYPE 377U TRIP VALVE AND VOLUME TANK. THE I/P POSITIONER IS TYPE DVC6020, AND THE STEM POSITION FEEDBACK TRANSMITTER WILL BE THE TYPE 4221, 67CFR AIRSET, ALSO INCLUDED WILL BE A REXROTH QUICK RELEASE VALVE FOR FAST OPENING; WITH BYPASS AND NEEDLE VALVE, STAINLESS STEEL TUBING AND SWAGELOK FITTINGS. LSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR WITH STAINLESS STEEL TUBING AND SWAGELOK FITTINGS</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 4</p> <p>VENDOR NOT TO TAG</p>
FV-1231A2	29410052P35	659D2149(1) B4	<p>VALVE, CONTROL; 3" 150# RF; FISHER; MODEL NUMBER: 657 ET; WCC STEEL; WHISPER I LINEAR NOISE ATTENUATING CAGE, TRIM # 1, 416 SST PLUG AND SEAT RING, 17-4 PH SST CAGE, NITRILE BACK UP RING, 2.3125" PORT, ANSI CLASS IV LEAKAGE RATE, DOUBLE PTFE PACKING FOR PRESSURE/VACUUM SERVICE. THE ACTUATOR IS A SIZE 40, 0-18 PSIG AIR TO DIAPHRAGM, 3-12 PSIG BENCH SET, 1 1/8" TRAVEL, AIR TO CLOSE/FAIL OPEN ACTION, INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS, WITH INTEGRATED 4-20 MA POSITION TRANSMITTER, 67CFR AIRSET. ALSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR, ALSO INCLUDED WILL BE A REXROTH QUICK RELEASE VALVE FOR FAST OPENING; WITH BYPASS AND NEEDLE VALVE, STAINLESS STEEL TUBING AND SWAGELOK FITTINGS.</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 7</p> <p>VENDOR NOT TO TAG</p>
FV-1231A3	29410052P30	659D2149(1) D6	<p>VALVE, CONTROL; 6" X 4" 150# RF; FISHER; MODEL NUMBER: 657 EWT; WCC STEEL; WHISPERFLO, LEVEL</p>

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			<p>Y, NOISE ATTENUATING CAGE, TRIM # 901, 410 SST PLUG AND CAGE, 416 SST SEAT RING, NITRILE BACK UP RING, 3.4375" PORT, ANSI CLASS IV LEAKAGE RATE, DOUBLE PTFE PACKING FOR PRESSURE/VACUUM SERVICE. THE ACTUATOR IS A SIZE 70, 0-20 AIR TO DIAPHRAGM, 3-18 PSIG BENCH SET, 4" TRAVEL, AIR TO CLOSE/FAIL OPEN ACTION, INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS, WITH INTEGRATED 4-20 MA POSITION TRANSMITTER, 67CFR AIRSET, ALSO INCLUDED WILL BE A REXROTH QUICK RELEASE VALVE FOR FAST OPENING; WITH BYPASS AND NEEDLE VALVE, STAINLESS STEEL TUBING AND SWAGELOK FITTINGS. ALSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR WITH STAINLESS STEEL TUBING AND SWAGELOK FITTINGS</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 2</p> <p>VENDOR NOT TO TAG</p>
GF-440	560A0057H01	659D2146(2) B1	<p>FILTER, GAS; 3/4" MPT; INDUST FILTER MFG/DOLLINGER; MODEL NUMBER: VAG 3001 W/S397-8SS/GP-146-10; CS; A-4 SEAL; WITH ELEMENT S397-8SS INSTALLED; 10 MICRON @ 98% EFF WOVEN GLASS; 400 PSIG DWP @ 300 F; 1/2" FPT VENT &amp; DRAIN; DESIGNED &amp; CONSTR TO ASME SECT VIII, DIV 1, (SEE 560A0078 FOR REPLACEMENT ELEMENTS).</p>
HTR-404	910A0026H02	659D2146(1) A3	<p>HEATER, OIL DISTILLER IMMERSION; 2" MPT; WATLOW; MODEL NUMBER: BGS79J6W02; 1 KW; FOR OIL DISTILLER; NEMA 4 TERMINAL BOX; INTEGRAL THERMOSTAT 30 F TO 250 F TEMPERATURE RANGE; ADJUSTMENT INSIDE ENCLOSURE; SINGLE POLE; 120V240/1/60/50; STEEL ELEMENTS; STEEL FITTINGS; 24 WATTS PER SQUARE INCH; UL &amp; CSA APPROVED; 9 1/2" INSERTION LENGTH.</p>
HV-401	957A0023H13	659D2146(1) B7	<p>VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.</p>
HV-402	955A0044H08	659D2146(1) B7	<p>VALVE, BLOCK &amp; BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.</p>
HV-403	955A0044H08	659D2146(1) B7	<p>VALVE, BLOCK &amp; BLEED; 3/4" MSW X 1/2" FPT; HEX;</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-404	955A0044H08	659D2146(1) A7	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-405	955A0044H08	659D2146(1) A5	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-406	957A0039H07	659D2146(1) A5	VALVE, BALL, 6-WAY, FULL PORT; 1 1/2" SW; TRIAC; MODEL NUMBER: (2) 33SW150XXM; 316 SS; TEFLON SEATS AND SEALS; 316 SST BALL & STEM; 2 - 3-WAY VALVES COUPLED TOGETHER WITH A COMMON HANDLE PER YORK DWG 957A0039 TO BE USED AS A 6-WAY VALVE; 800 PSIG DWP; 200 F DWT.
HV-407	957A0023H13	659D2146(1) A5	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-408	957A0023H13	659D2146(1) A5	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-409	957A0023H13	659D2146(1) A5	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-410	957A0023H13	659D2146(1) A5	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
HV-411	957A0023H11	659D2146(1) A5	VALVE, BALL, 3-PIECE; 1/4" FSW X 1/4" FPT; SHARPE; MODEL NUMBER: 1/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8
HV-423	957A0022H14	659D2146(1) A3	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12.
HV-424	955A0044H08	659D2146(1) D3	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-426	955A0044H08	659D2146(1) C5	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-428	955A0044H08	659D2146(1) C6	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-429	955A0044H08	659D2146(1) C7	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-430	957A0023H14	659D2146(1) C7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-431	957A0023H13	659D2146(1) C7	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			HANDLE; THREE PIECE DESIGN; CV=8.
HV-432	957A0023H14	659D2146(1) B5	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-433	957A0023H14	659D2146(1) B5	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-434	957A0023H14	659D2146(1) B5	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-435	957A0023H14	659D2146(1) B5	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-436	957A0023H14	659D2146(1) B5	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-437	957A0023H14	659D2146(1) B4	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-438	957A0019H24	659D2146(1) B4	VALVE, BALL, 3-PIECE; 3/4" FSW; SHARPE; MODEL NUMBER: 3/4-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=24
HV-439	955A0044H08	65D2146(2) B2	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX;

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT,BACKSEATED; 316 SST NON ROTATING TIP;GRAPHITE/GRAFOILPACKING; PINNED LOCKED BONNET; 1000 PSIG DWP,TEMPERATURE RANGE 0 TO 1000 F.
HV-440	955A0044H08	65D2146(2) B1	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT,BACKSEATED; 316 SST NON ROTATING TIP;GRAPHITE/GRAFOILPACKING; PINNED LOCKED BONNET; 1000 PSIG DWP,TEMPERATURE RANGE 0 TO 1000 F.
HV-441	955A0044H08	65D2146(2) B2	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT,BACKSEATED; 316 SST NON ROTATING TIP;GRAPHITE/GRAFOILPACKING; PINNED LOCKED BONNET; 1000 PSIG DWP,TEMPERATURE RANGE 0 TO 1000 F.
HV-442	957A0019H24	659D2146(2) B1	VALVE, BALL, 3-PIECE; 3/4" FSW; SHARPE; MODEL NUMBER: 3/4-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=24
HV-443	957A0019H24	659D2146(2) B2	VALVE, BALL, 3-PIECE; 3/4" FSW; SHARPE; MODEL NUMBER: 3/4-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=24
HV-444	954A0061H02	659D2146(2) B2	VALVE, GLOBE, HAND EXPANSION, SEAL CAP; 3/4" FSW; HANSEN TECHNOLOGIES; MODEL NUMBER: RSB075C; ASTM A-105 C.S.; 400 PSIG SAFE WORKING PRESSURE; VALVE STEMS ARE STAINLESS STEEL; SLOTTED PLUGS FOR ACCURATE FLOW REGULATION; TEFLON SEAT DISCS; -60F TO 240F DESIGN TEMP; STEM PACKING GRAPHITE COMPOSITE PLUS NEOPRENE O-RING; DUCTILE IRON, ASTM A536, BONNET; NON-ASBESTOS GASKETS.
HV-445	955A0044H08	659D2146(2) B2	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT,BACKSEATED; 316 SST NON ROTATING TIP;GRAPHITE/GRAFOILPACKING; PINNED LOCKED BONNET; 1000 PSIG DWP,TEMPERATURE RANGE 0 TO 1000 F.
HV-446	957A0023H13	659D2146(2) B1	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
HV-447	957A0022H14	659D2146(2) C6	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12.
HV-450	957A0023H14	659D2148(1) D7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-451	957A0023H14	659D2148(1) C7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-454	957A0022H14	659D2148(1) C7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12.
HV-455	955A0044H08	659D2148(1) C6	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-456	957A0022H14	659D2148(1) D7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12.
HV-457	957A0024H04	659D2148(1) D7	VALVE, BALL, 3-PIECE, FULL PORT; 3/4" FSW; SHARPE; MODEL NUMBER: 3/4-9946TTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; TEFLON SEATS AND SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=71
HV-458	957A0022H13	659D2148(1) D7	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F;

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-459	955A0044H08	659D2148(1) D6	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOILPACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-460	957A0019H25	659D2148(1) D5	VALVE, BALL, 3-PIECE; 1" FSW; SHARPE; MODEL NUMBER: 1-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=32
HV-461	957A0019H25	659D2148(1) C6	VALVE, BALL, 3-PIECE; 1" FSW; SHARPE; MODEL NUMBER: 1-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=32
HV-462	957A0022H13	659D2148(1) C5	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-463	957A0019H25	659D2148(1) C5	VALVE, BALL, 3-PIECE; 1" FSW; SHARPE; MODEL NUMBER: 1-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=32
HV-503	955A0044H08	659D2147(1) C8	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOILPACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-504	957A0023H14	659D2147(1) C7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-505	955A0044H08	659D2147(1) B5	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOILPACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-506	957A0023H13	659D2147(1) B4	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE;

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-507	957A0023H13	659D2147(1) B4	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-508	957A0023H13	659D2147(1) B4	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-509	957A0023H13	659D2147(1) B4	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-510	957A0039H07	659D2147(1) B4	VALVE, BALL, 6-WAY, FULL PORT; 1 1/2" SW; TRIAC; MODEL NUMBER: (2) 33SW150XXM; 316 SS; TEFLON SEATS AND SEALS; 316 SST BALL & STEM; 2 - 3-WAY VALVES COUPLED TOGETHER WITH A COMMON HANDLE PER YORK DWG 957A0039 TO BE USED AS A 6-WAY VALVE; 800 PSIG DWP; 200 F DWT.
HV-511	957A0023H11	659D2147(1) B4	VALVE, BALL, 3-PIECE; 1/4" FSW X 1/4" FPT; SHARPE; MODEL NUMBER: 1/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8
HV-550	955A0044H08	659D2148(1) C6	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-551	957A0019H28	659D2148(1) C5	VALVE, BALL, 3-PIECE; 2" FSW; SHARPE; MODEL NUMBER: 2-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=120

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
HV-552	957A0023H14	659D2148(1) B8	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-553	957A0023H14	659D2148(1) B7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8466RTSW/TE; 316 SS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12
HV-554	957A0022H14	659D2148(1) B7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12.
HV-555	955A0044H08	659D2148(1) B6	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-556	957A0019H25	659D2148(1) D7	VALVE, BALL, 3-PIECE; 1" FSW; SHARPE; MODEL NUMBER: 1-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=32
HV-557	957A0022H13	659D2148(1) B5	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-558	957A0019H25	659D2148(1) D7	VALVE, BALL, 3-PIECE; 1" FSW; SHARPE; MODEL NUMBER: 1-8446RTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; REINFORCED TEFLON SEATS; TEFLON BODY SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=32
HV-559	955A0044H08	659D2148(1) B4	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
HV-560	957A0022H14	659D2148(1) C7	VALVE, BALL, 3-PIECE; 3/4" FSW X 3/4" FPT; SHARPE; MODEL NUMBER: 3/4-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=12.
HV-561	957A0024H04	659D2148(1) C7	VALVE, BALL, 3-PIECE, FULL PORT; 3/4" FSW; SHARPE; MODEL NUMBER: 3/4-9946TTSW; A105 CS; 316 STAINLESS STEEL BALL & STEM; TEFLON SEATS AND SEALS; 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; CV=71
HV-562	957A0022H13	659D2148(1) C7	VALVE, BALL, 3-PIECE; 1/2" FSW X 1/2" FPT; SHARPE; MODEL NUMBER: 1/2-8446RTSW/TE; A105 CS; 316 STAINLESS STEEL BALL AND STEM; REINFORCEDTEFLON SEATS; TEFLON BODY SEALS; DESIGN WORKING PRESSURE 625 PSIG DWP @ 200 F; VINYL COATED STAINLESS STEEL OVAL LOCKABLE HANDLE; THREE PIECE DESIGN; CV=8.
HV-951	957A0028H03	669D0124(1) A4	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;; STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-952	957A0028H03	669D0124(1) A4	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;; STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-953	957A0028H03	669D0124(1) A4	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;; STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-954	957A0028H03	669D0124(1) A4	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;; STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-955	957A0028H03	669D0124(1) A3	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;; STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-956	957A0028H03	669D0124(1) A4	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;, STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-957	957A0028H03	669D0124(1) A3	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;, STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-958	955A0044H08	669D0124(1) A3	VALVE, BLOCK & BLEED; 3/4" MSW X 1/2" FPT; HEX; MODEL NUMBER: HB59 1U4231413; A479 TYPE 316 SS; HARD SEAT, BACKSEATED; 316 SST NON ROTATING TIP; GRAPHITE/GRAFOIL PACKING; PINNED LOCKED BONNET; 1000 PSIG DWP, TEMPERATURE RANGE 0 TO 1000 F.
HV-959	957A0028H03	669D0124(1) A3	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;, STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-960	957A0028H03	669D0124(1) A5	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;, STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HV-961	957A0028H03	669D0124(1) A5	VALVE, BALL; 1/2" FPT; INLINE INDUSTRIES; MODEL NUMBER: 1/2-102R; A351 GR CF8M SS; REDUCED PORT, ONE-PIECE BOTTOM ENTRY STYLE WITH ANTI-BLOWOUT SHOULDER;, STAINLESS STEEL BODY; 316 SS BALL & STEM; 2000 PSIG DWP; REINFORCED TFE SEAT & SEAL; TEMP RANGE -20 F TO +450 F.
HX-401	29410052P10	659D2148(1) D8	OIL COOLER, COMPRESSOR; 5" OD X 54" NTL; API HEAT TRANSFER; MODEL NUMBER: 05054; SS; TYPE BEU WITH 34 PLAIN STAINLESS STEEL "U" TUBES, 3/8" OD X 24 BWG; 2 PASSES TUBESIDE; 200 PSIG SHELLSIDE / 200 PSIG TUBESIDE; ASME CODE AND TEMA CLASS 'C'; DUTY: 44940 BTUH COOLING 17.3 US GPM OF YORK J OIL SHELLSIDE; USING 669 LBS/HR R-134A EVAPORATING TUBESIDE AT 51°F. INCLUDE STANDARD FLUSH WITH OIL COMPATIBLE TO DESIGN FLUIDS.  PER ATTACHED OIL COOLER SPECIFICATION DOCUMENT REV A, AES 0500_13 REV A, AES 0500_14 REV A, MUSTANG MATERIAL OF ORIGIN DATED 9/22/08, AND SP-0013 WELD, FAB & INSPECTION REV 0, API HEAT TRANSFER COMMENTS AND EXCEPTIONS, API COOLER DATASHEETS, API HEAT TRANSFER COMMERCIAL TERM, AND API QUOTE.

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
HX-501	29410052P11	659D2148(1) B8	<p>OIL COOLER, GEAR; 5" OD X 66" NTL; API HEAT TRANSFER; MODEL NUMBER: 05066; SS; TYPE BEU WITH 34 PLAIN STAINLESS STEEL "U" TUBES, 3/8" OD X 24 BWG; 2 PASSES TUBESIDE; 200 PSIG SHELLSIDE / 200 PSIG TUBESIDE; ASME CODE AND TEMA CLASS 'C'; DUTY: 101800 BTUH COOLING 13.0 US GPM OF IOS VG 32 OIL SHELLSIDE; USING 1516 LBS/HR R-134A EVAPORATING TUBESIDE AT 51°F. INCLUDE STANDARD FLUSH WITH OIL COMPATIBLE TO DESIGN FLUIDS.</p> <p>PER ATTACHED OIL COOLER SPECIFICATION DOCUMENT REV A, AES 0500_13 REV A, AES 0500_14 REV A, MUSTANG MATERIAL OF ORIGIN DATED 9/22/08, AND SP-0013 WELD, FAB &amp; INSPECTION REV 0, API HEAT TRANSFER COMMENTS AND EXCEPTIONS, API COOLER DATASHEETS, API HEAT TRANSFER COMMERCIAL TERM, AND API QUOTE.</p>
IT-1231A0	29410023P17	659D2147(1) D3	<p>TRANSMITTER, CURRENT; MOORE; MODEL # ACX/0-5A/4-20MA/12-42 VDC/ FM2SLP INPUT - 0-5A OUTPUT - 4-20Ma POWER - 12-42VDC LOOP POWER OPTIONS: HOUSING FM APPROVED WITH BASE PLATE AND U-BOLTS FOR MOUNTING ON A 2 IN PIPE.</p>
LG-1231A6	29410052P26	659D2146(1) A3	<p>LEVEL GAUGE; PENBERTHY; MODEL NUMBER: 1RMW3; MEDIUM REFLEX PRESSURE WELD PAD, CARBON STEEL COVER/CHAMBER, 6 3/8" RADIUS, 12 3/4" O.D. PIPE. GAUGE TO BE SUPPLIED WITH SPACER, PRICE INCLUDES COST OF GAUGE AND SPACER.</p>
LIN-101	29410052P45	659D2149(1) D7	<p>DESUPERHEATER, LIQUID GAS MIXER; 12" RF 150#; KOMAX SYSTEMS INC.; MODEL NUMBER: GLC-55789; CS; TO MIX AND CONTACT 892.3 #/MIN HOT GAS STREAM @ 19.8 PSIA AND 135°F WITH 281.8 #/MIN @ 102 PSIA TWO PHASE LIQUID STREAM. 1 EQUALIZER COMPLETE WITH SS NOZZLE, 12" 150# RFWN FLANGED END CONNECTIONS, 2" 150# RFWN FLANGED SIDE CONNECTION. OVERALL LENGTH 24", ESTIMATED WEIGHT 350#, ESTIMATED SHIPPING DIMENSIONS 24" X 26" X 40". DWP 200 PSIG, DWT -20 TO 250°F, UNITS TO BE BUILT TO ASME B31.3 PIPE CODE, AND MSB 1 REV H AS APPLICABLE. VENDOR TO INCLUDE PQR, WPS, AND B31.3 ASSOCIATED DOCUMENTATION, PER ATTACHED QUOTE (53994-09), APPLICATION 1</p>
LIN-102	29410052P46	659D2149(1) C4	<p>DESUPERHEATER, LIQUID GAS MIXER; 16" RF 150#; KOMAX SYSTEMS INC.; MODEL NUMBER: GLC-55790; CS; TO MIX AND CONTACT 2,623.5 #/MIN HOT GAS STREAM @ 32.8 PSIA AND 135°F WITH 664 #/MIN @ 104 PSIA TWO PHASE LIQUID STREAM. 1 EQUALIZER COMPLETE WITH SS NOZZLE, 16" 150# RFWN FLANGED END CONNECTIONS, 4" 150# RFWN FLANGED SIDE</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			CONNECTION. OVERALL LENGTH 32", ESTIMATED WEIGHT 600#, ESTIMATED SHIPPING DIMENSIONS 28" X 30" X 38". DWP 200 PSIG, DWT -20 TO 250°F, UNITS TO BE BUILT TO ASME B31.3 PIPE CODE, AND MSB 1 REV H AS APPLICABLE. VENDOR TO INCLUDE PQR, WPS, AND B31.3 ASSOCIATED DOCUMENTATION, PER ATTACHED QUOTE (53994-09), APPLICATION 2
LIN-103	29410052P47	659D2149(1) B4	DESUPERHEATER, LIQUID GAS MIXER; 6" RF 150#; KOMAX SYSTEMS INC.; MODEL NUMBER: GLC-55791; CS; TO MIX AND CONTACT 699.2 #/MIN HOT GAS STREAM @ 65 PSIA AND 135°F WITH 112.1 #/MIN @ 99.5 PSIA TWO PHASE LIQUID STREAM. 1 EQUALIZER COMPLETE WITH SS NOZZLE, 6" 150# RFWN FLANGED END CONNECTIONS, 1" 150# RFWN FLANGED SIDE CONNECTION. OVERALL LENGTH 12", ESTIMATED WEIGHT 150#, ESTIMATED SHIPPING DIMENSIONS 15" X 17" X 17". DWP 200 PSIG, DWT -20 TO 250°F, UNITS TO BE BUILT TO ASME B31.3 PIPE CODE, AND MSB 1 REV H AS APPLICABLE. VENDOR TO INCLUDE PQR, WPS, AND B31.3 ASSOCIATED DOCUMENTATION, PER ATTACHED QUOTE (53994-09), APPLICATION 3
LSH-1231A1	913A0073H01	659D2146(1) A3	SWITCH, LEVEL; STATIC-O-RING; MODEL NUMBER: 1510B-G5A-C-W1-ES-CS; SPDT; SWITCH RATED 1 AMP @110 VAC MAX ; 3 AMPS @ 28 VDC; NEMA 7, CL 1, GR A,B,C,D, DIV I; .40 MIN SPECIFIC GRAVITY; 1500 PSIG DWP; -40F TO 400F; 316 SS FLOAT AND TRIM; HERMETICALLY SEALED; 3/8" FLOAT TRAVEL; 1/2" FPT CONDUIT CONNECTION; CSA LABELED
LSH-1231A3	913A0073H01	659D2146(1) B3	SWITCH, LEVEL; STATIC-O-RING; MODEL NUMBER: 1510B-G5A-C-W1-ES-CS; SPDT; SWITCH RATED 1 AMP @110 VAC MAX ; 3 AMPS @ 28 VDC; NEMA 7, CL 1, GR A,B,C,D, DIV I; .40 MIN SPECIFIC GRAVITY; 1500 PSIG DWP; -40F TO 400F; 316 SS FLOAT AND TRIM; HERMETICALLY SEALED; 3/8" FLOAT TRAVEL; 1/2" FPT CONDUIT CONNECTION; CSA LABELED
LSL-1231A0	913A0073H01	659D2147(1) C6	SWITCH, LEVEL; STATIC-O-RING; MODEL NUMBER: 1510B-G5A-C-W1-ES-CS; SPDT; SWITCH RATED 1 AMP @110 VAC MAX ; 3 AMPS @ 28 VDC; NEMA 7, CL 1, GR A,B,C,D, DIV I; .40 MIN SPECIFIC GRAVITY; 1500 PSIG DWP; -40F TO 400F; 316 SS FLOAT AND TRIM; HERMETICALLY SEALED; 3/8" FLOAT TRAVEL; 1/2" FPT CONDUIT CONNECTION; CSA LABELED
LSL-1231A2	913A0073H01	659D2146(1) A4	SWITCH, LEVEL; STATIC-O-RING; MODEL NUMBER: 1510B-G5A-C-W1-ES-CS; SPDT; SWITCH RATED 1 AMP @110 VAC MAX ; 3 AMPS @ 28 VDC; NEMA 7, CL 1, GR A,B,C,D, DIV I; .40 MIN SPECIFIC GRAVITY; 1500 PSIG DWP; -40F TO 400F; 316 SS FLOAT AND TRIM; HERMETICALLY SEALED; 3/8" FLOAT TRAVEL; 1/2" FPT CONDUIT CONNECTION; CSA LABELED
LSL-1231A4	913A0073H01	659D2146(1) C7	SWITCH, LEVEL; STATIC-O-RING; MODEL NUMBER: 1510B-G5A-C-W1-ES-CS; SPDT; SWITCH RATED 1 AMP @110 VAC MAX ; 3 AMPS @ 28 VDC; NEMA 7, CL 1, GR

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			A,B,C,D, DIV I; .40 MIN SPECIFIC GRAVITY; 1500 PSIG DWP; -40F TO 400F; 316 SS FLOAT AND TRIM; HERMETICALLY SEALED; 3/8" FLOAT TRAVEL; 1/2" FPT CONDUIT CONNECTION; CSA LABELED
OF-401	853E0250G01	659D2146(1) A5	OIL FILTER ASSEMBLY - 1 ELEMENT; 8 5/8" DIA; SS 304
OF-402	853E0250G01	659D2146(1) A4	OIL FILTER ASSEMBLY - 1 ELEMENT; 8 5/8" DIA; SS 304
OF-501	853E0250G01	659D2147(1) A4	OIL FILTER ASSEMBLY - 1 ELEMENT; 8 5/8" DIA; SS 304
OF-502	853E0250G01	659D2147(1) A4	OIL FILTER ASSEMBLY - 1 ELEMENT; 8 5/8" DIA; SS 304
P-401	960A0086G01	659D2146(1) B7	OIL PUMP & MOTOR; VIKING; MODEL NUMBER: HL493M; CAST STEEL; 26 GPM CAPACITY AT 1450 RPM; 33 GPM CAPACITY AT 1750 RPM BASED ON 100 SSU OIL @ 100 F; WITH 3 HP,190/380-3-50 HZ. 1.0 S.F. & 230/460-3-60 HZ, 1.15 S.F.; TEFC, C-FACED, MOTOR; FRAME 182TC; LESS RELIEF VALVE; 300 PSIG MAX OPERATING PRESSURE; 400 PIIG MAX STAND-BY PRESSURE; WITH STD CARBON/NI-RESIST MECHANICAL SHAFT SEAL; NEOPRENE SHAFT SEAL; CONTINUOUS DUTY MOTOR; 40 C AMBIENT; BALL BEARINGS, LOCKED SHAFT END BEARING, NEMA DESIGN B.
P-502	960A0085G01	659D2147(1) C7	OIL PUMP & MOTOR; VIKING; MODEL NUMBER: HL493M; CAST STEEL; 13 GPM CAPACITY AT 1450 RPM; 20 GPM CAPACITY AT 1750 RPM BASED ON 100 SSU OIL @ 100 F; WITH 3 HP,190/380-3-50 HZ. 1.0 S.F. & 230/460-3-60 HZ, 1.15 S.F.; TEFC, C-FACED, MOTOR; FRAME 145TC; LESS RELIEF VALVE; 300 PSIG MAX OPERATING PRESSURE; 400 PIIG MAX STAND-BY PRESSURE; WITH STD CARBON/NI-RESIST MECHANICAL SHAFT SEAL; NEOPRENE SHAFT SEAL; CONTINUOUS DUTY MOTOR; 40 C AMBIENT; BALL BEARINGS, LOCKED SHAFT END BEARING, NEMA DESIGN B.
PCV-1231A18	29410052P44	669D0124(1) A5	REGULATOR, PRESSURE, PNEUMATIC; 3/8" NPT; CONTROLAIR INC.; MODEL NUMBER: 700 CF; DIE CAST ALUMINUM; ADJUSTABLE RANGE 0 TO 160 PSIG; 3/8" FPT GAUGE CONNS; AIR CONSUMPTION LESS THAN 5 SCFH; 250 PSIG MAX SUPPLY PRESSURE; MAX FLOW CAPACITY 80 SCFM; 40 MICRON;SQ HEAD ADJ SCREW W / LOCKING NUT; SUPPLIED WITH PRESSURE GAUGE MODEL 1220 DSB P/N 446-725-002, AND MOUNTING BRACKET P/N 446-707-025; SEE ATTACHED QUOTE
PCV-1231A24	29410052P21	659D2148(1) D5	VALVE, BACK PRESSURE REGULATING; 1" 150# IFE; JORDAN VALVE CO.; MODEL NUMBER: MARK 50; CARBON STEEL; MODEL NUMBER 50100CSI5S6W850JLEDDA0*, 316 SS TRIM; 316SS/JORCOTE SEATS; NODULAR IRON DOME; JORLON DIAPHRAM; JACKSCREW ADJUSTMENT; DOUBLE BOLTED BONNET FOR HIGH PRESSURE; ANSI CLASS IV SHUTOFF; NORMALLY CLOSED; -20 F TO +650 F DESIGN TEMPERATURE; 950 PSIG DESIGN WORKING PRESSURE; 450 PSID MAX DIFFERENTIAL PRESSURE; CV=9.5; ADJUSTABLE RANGE 15 TO 80 PSIG. SET A 50

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			PSIG
			PER ATTCHED QUOTE.
PCV-1231A28	29410052P22	659D2148(1) C6	VALVE, BACK PRESSURE REGULATING; 2" 150# IFE; JORDAN VALVE CO.; MODEL NUMBER: MARK 50; CARBON STEEL; MODEL NUMBER 50200CSI5S6WB50JLEDDA0*, 316 SS TRIM; 316SS/JORCOTE SEATS; NODULAR IRON DOME; JORLON DIAPHRAM; JACKSCREW ADJUSTMENT; DOUBLE BOLTED BONNET FOR HIGH PRESSURE; ANSI CLASS IV SHUTOFF; NORMALLY CLOSED; -20 F TO +650 F DESIGN TEMPERATURE; 950 PSIG DESIGN WORKING PRESSURE; 450 PSID MAX DIFFERENTIAL PRESSURE; CV=30; ADJUSTABLE RANGE 15 TO 80 PSIG. SET AT 50 PSIG
			PER ATTCHED QUOTE.
PCV-1231A32	29410052P18	659D2147(1) C8	VALVE, PRESSURE CONTROL; 1" SW; FULFLO; MODEL NUMBER: SHVSS-5024-RN-WS; SS; RANGE 30 TO 100 PSIG; 1000 PSIG DWP; RATED CAPACITY 20 GPM OF 150 SSU OIL @ 110 F; STAINLESS STEEL PISTON; NEOPRENE SEALS; HANDWHEEL ADJUSTMENT; 507WS SPRING (RED). STAINLESS STEEL BODY
			LIKE PART NUMBER 952A006H05, BUT WITH SS BODY
PCV-1231A33	29410052P17	659D2147(1) B5	VALVE, PRESSURE CONTROL; 1" SW; FULFLO; MODEL NUMBER: SHVSS-5024-RN-US; SS; RANGE 7 TO 35 PSIG; 1000 PSIG DWP; RATED CAPACITY 20 GPM OF 150 SSU OIL @ 110 F; STAINLESS STEEL PISTON; NEOPRENE SEALS; HANDWHEEL ADJUSTMENT; 507US SPRING (RED). STAINLESS STEEL BODY
			LIKE PART NUMBER 952A016H05, BUT WITH SS BODY
PCV-1231A48	950A0229H10	659D2146(2) B2	VALVE, CONTROL, DIFFERENTIAL PRESSURE; 3/4" FPT; JORDAN VALVE CO.; MODEL NUMBER: MARK 63HPDBH; CARBON STEEL; 316 STAINLESS STEEL TRIM; JORDANIC COATED SEATS; SS DOME; SS DIAPHRAM; HANDWHEEL ADJUSTMENT; DOUBLE BOLTED FOR HIGH PRESSURE; ANSI CL IV SHUTOFF; NORMALLY OPEN; 950 PSIG DESIGN WORKING PRESSURE; -20 F TO +650 F DESIGN TEMPERATURE; 1/4" FPT REFERENCE GAS CONN; ADJ RANGE 2 TO 23 PSID; CV=4.4; MAX DP ACROSS VALVE 325 PSID LIQUID; 200 PSID GAS.
PDCV-1231A42	29410052P17	659D2146(1) B6	VALVE, PRESSURE CONTROL; 1" SW; FULFLO; MODEL NUMBER: SHVSS-5024-RN-US; SS; RANGE 7 TO 35 PSIG; 1000 PSIG DWP; RATED CAPACITY 20 GPM OF 150 SSU OIL @ 110 F; STAINLESS STEEL PISTON; NEOPRENE SEALS; HANDWHEEL ADJUSTMENT; 507US SPRING (RED). STAINLESS STEEL BODY
			LIKE PART NUMBER 952A016H05, BUT WITH SS BODY

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
PDS-1231A17	29410052P16	659D2146(1) D7	<p>SWITCH, DIFFERENTIAL PRESSURE; NEO-DYN; MODEL NUMBER: 160P42CC6CS; WETTED MATERIAL: STAINLESS STEEL DIAPHRAGM, EPR O-RING ADJUSTABLE RANGE: 0.3 PSID DECREASING TO 18 PSID INCREASING</p> <p>ELECTRICAL FORM: 11 AMPS AND ¼ HP 125 OR 250VAC 5 AMPS RESISTIVE; 3 AMPS INDUCTIVE 28VDC; 0.5 AMPS RESISTIVE 125VDC SNAP ACTION ELECTRICAL SWITCH.</p> <p>ENCLOSURE: EXPLOSION PROOF - FACTORY SEALED - HERMETICALLY SEALED ELECTRICAL ASSEMBLY, UL - CSA APPROVED DIVISIONS 1 AND 2, CLASS 1, GROUPS A,B,C,D HAZARDOUS LOCATION (NEMA 7 -9) - ½ INCH 14 NPT ELECTRICAL CONDUIT CONNECTION WITH PVC INSULATED 18AWG LEADS 18INCH LONG.</p> <p>OPTIONS: B AND S</p> <p>PRESURE CONNECTIONS: ¼ INCH -18 NPT FEMALE BOTH HIGH AND LOW PORTS</p> <p>TEMPERATURE RANGE: OPERATION MINUS 40 TO 180 F / MEDIA MINUS 40 TO 250 F</p> <p>FACTORY SET SETPOINT AT 5.0 PSID INCREASING</p>
PDT-1231A10	29410023P05	659D2146(1) A5	<p>TRANSMITTER, DIFFERENTIAL PRESSURE; ROSEMOUNT;</p> <p>3051CD4A02A1AS5E5M5T1Q4TRD1</p> <p>3051C - Pressure Transmitter</p> <p>D - Measurement Type</p> <p>4 - Pressure Upper Range Limit - CD/CG: 300 psi (20.7 bar)</p> <p>CA: 4000 psia (275.8 bar)</p> <p>A - Transmitter Output 4-20 mA with Digital Signal Based on HART Protocol</p> <p>0 - Materials of Construction - Alternate Flange</p> <p>2 - Isolating Diaphragm 316L SST</p> <p>A - O-Ring - Glass-Filled TFE</p> <p>1 - Sensor Fill Fluid Silicone</p> <p>A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14 NPT</p> <p>B4 - Bracket for 2-in. Pipe or Panel Mounting, All SST</p> <p>E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof</p> <p>M5 - Display Type LCD</p> <p>T1 - Transient Protection Terminal Block</p> <p>Q4 - Quality Certification Calibration Certificate</p> <p>S5 - Integral Assembly Assemble to 305 Integral Manifold</p> <p>TR - Transmitter Version Transmitter Revision 5</p> <p>D1 - Zero/Span Adjustment, Hardware adjustments</p> <p>CALIBRATION RANGE 0 -300 PSID</p> <p>0305RC52B11B4</p> <p>R - Manufacturer - Rosemount</p> <p>C - Manifold Style - Coplaner</p> <p>5 - Manifold Type - 5-Valve Manifold</p> <p>2 - Materials of Construction - 316 SST Body, 316 SST Bonnet, 316 SST Stem, 316 SST Drain/Vent</p> <p>B - Process Connection, 1/2-14 NPT female</p> <p>1 - Packing Material - PTFE</p> <p>1 - Valve Seat - Integral</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
PDT-1231A11	29410023P04	659D2146(1) A5	<p>B4 - Mounting Bracket - SS Brkt for 2 In Pipe of Panel Mount, Coplanar Style</p> <p>TRANSMITTER, DIFFERENTIAL PRESSURE; ROSEMOUNT; 3051CD4A02A1AS5E5M5T1Q4TRD1 3051C - Pressure Transmitter D - Measurement Type 4 - Pressure Upper Range Limit - CD/CG: 300 psi (20.7 bar) CA: 4000 psia (275.8 bar) A - Transmitter Output 4-20 mA with Digital Signal Based on HART Protocol 0 - Materials of Construction - Alternate Flange 2 - Isolating Diaphragm 316L SST A - O-Ring - Glass-Filled TFE 1 - Sensor Fill Fluid Silicone A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14 NPT B4 - Bracket for 2-in. Pipe or Panel Mounting, All SST E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof M5 - Display Type LCD T1 - Transient Protection Terminal Block Q4 - Quality Certification Calibration Certificate S5 - Integral Assembly Assemble to 305 Integral Manifold TR - Transmitter Version Transmitter Revision 5 D1 - Zero/Span Adjustment, Hardware adjustments (zero, span, alarm, security) CALIBRATION RANGE 0 -50 PSID 0305RC52B11B4 R - Manufacturer - Rosemount C - Manifold Style - Coplaner 5 - Manifold Type - 5-Valve Manifold 2 - Materials of Construction - 316 SST Body, 316 SST Bonnet, 316 SST Stem, 316 SST Drain/Vent B - Process Connection, 1/2-14 NPT female 1 - Packing Material - PTFE 1 - Valve Seat - Integral B4 - Mounting Bracket - SS Brkt for 2 In Pipe of Panel Mount, Coplanar Style</p>
PDT-1231A12	29410023P05	659D2146(1) A4	<p>TRANSMITTER, DIFFERENTIAL PRESSURE; ROSEMOUNT; 3051CD4A02A1AS5E5M5T1Q4TRD1 3051C - Pressure Transmitter D - Measurement Type 4 - Pressure Upper Range Limit - CD/CG: 300 psi (20.7 bar) CA: 4000 psia (275.8 bar) A - Transmitter Output 4-20 mA with Digital Signal Based on HART Protocol 0 - Materials of Construction - Alternate Flange 2 - Isolating Diaphragm 316L SST A - O-Ring - Glass-Filled TFE 1 - Sensor Fill Fluid Silicone A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14 NPT</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
PDT-1231A14	29410023P04	659D2147(1) B3	<p>B4 - Bracket for 2-in. Pipe or Panel Mounting, All SST  E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof  M5 - Display Type LCD  T1 - Transient Protection Terminal Block  Q4 - Quality Certification Calibration Certificate  S5 - Integral Assembly Assemble to 305 Integral Manifold  TR - Transmitter Version Transmitter Revision 5  D1 - Zero/Span Adjustment, Hardware adjustments  CALIBRATION RANGE 0 -300 PSID  0305RC52B11B4  R - Manufacturer - Rosemount  C - Manifold Style - Coplaner  5 - Manifold Type - 5-Valve Manifold  2 - Materials of Construction - 316 SST Body, 316 SST Bonnet, 316 SST Stem, 316 SST Drain/Vent  B - Process Connection, 1/2-14 NPT female  1 - Packing Material - PTFE  1 - Valve Seat - Integral  B4 - Mounting Bracket - SS Brkt for 2 In Pipe of Panel Mount, Coplanar Style</p> <p>TRANSMITTER, DIFFERENTIAL PRESSURE;  ROSEMOUNT;  3051CD4A02A1AS5E5M5T1Q4TRD1  3051C - Pressure Transmitter  D - Measurement Type  4 - Pressure Upper Range Limit - CD/CG: 300 psi (20.7 bar)  CA: 4000 psia (275.8 bar)  A - Transmitter Output 4-20 mA with Digital Signal Based on HART Protocol  0 - Materials of Construction - Alternate Flange  2 - Isolating Diaphragm 316L SST  A - O-Ring - Glass-Filled TFE  1 - Sensor Fill Fluid Silicone  A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14 NPT  B4 - Bracket for 2-in. Pipe or Panel Mounting, All SST  E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof  M5 - Display Type LCD  T1 - Transient Protection Terminal Block  Q4 - Quality Certification Calibration Certificate  S5 - Integral Assembly Assemble to 305 Integral Manifold  TR - Transmitter Version Transmitter Revision 5  D1 - Zero/Span Adjustment, Hardware adjustments (zero, span, alarm, security)  CALIBRATION RANGE 0 -50 PSID  0305RC52B11B4  R - Manufacturer - Rosemount  C - Manifold Style - Coplaner  5 - Manifold Type - 5-Valve Manifold  2 - Materials of Construction - 316 SST Body, 316 SST Bonnet, 316 SST Stem, 316 SST Drain/Vent  B - Process Connection, 1/2-14 NPT female  1 - Packing Material - PTFE</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			1 - Valve Seat - Integral B4 - Mounting Bracket - SS Brkt for 2 In Pipe of Panel Mount, Coplanar Style
PG-1231A20	990A0024H01	669D0124(1) A3	GAUGE, PRESSURE; AMETEK/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 176 176 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-160 PSIG/0-1100 Kpa
PG-1231A23	990A0024H02	659D2148(1) D6	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A25	990A0024H02	659D2148(1) C6	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A27	990A0024H02	659D2148(1) C6	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A29	990A0024H02	659D2148(1) B6	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A30	990A0024H02	659D2148(1) B4	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A31	990A0024H02	659D2147(1) C8	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A34	990A0024H02	659D2147(1) B5	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			Kpa
PG-1231A35	990A0024H01	659D2146(1) C6	GAUGE, PRESSURE; AMETEK/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 176 176 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-160 PSIG/0-1100 Kpa
PG-1231A36	990A0024H01	659D2146(1) C6	GAUGE, PRESSURE; AMETEK/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 176 176 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-160 PSIG/0-1100 Kpa
PG-1231A37	990A0024H01	659d2146(1) D3	GAUGE, PRESSURE; AMETEK/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 176 176 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-160 PSIG/0-1100 Kpa
PG-1231A37	990A0024H02	659D2146(1) B7	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A38	990A0024H02	659D2146(1) B7	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A39	990A0024H02	659D2146(1) A7	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A40	990A0024H02	659D2146(1) A5	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A41	990A0024H01	659d2146(1) D3	GAUGE, PRESSURE; AMETEK/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 176 176 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-160 PSIG/0-1100 Kpa
PG-1231A47	990A0024H02	659D2146(1) C5	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT;

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A47	990A0024H02	659D2146(2) C2	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A49	990A0024H02	659D2146(2) C2	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A50	990A0024H02	659D2146(2) C1	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PG-1231A51	990A0024H02	659D2146(2) C2	GAUGE, PRESSURE; AMETEK(US GAUGE)/ASHCROFT; MODEL NUMBER: 1982 / 45-1279-RS-04L-XXX; 4 1/2" DIA; SOLFRUNT DESIGN; 316 SST BOURDON TUBE; MAX STANDBY PRESSURE 330 PSIG; PHENOLIC TURRET CASE; ALLOY STEEL SOCKET; RANGE 0-300 PSIG/0-2060 Kpa
PSV-1231A22	29410052P27	659D2148(1) D7	VALVE, PRESSURE SAFETY; 1/2" FPT X 1" FPT; HYDROSEAL; MODEL NUMBER: 15D1F0C10; WCB; SET PRESSURE = 200 PSIG, 0.129 SQ. IN ORIFICE, NEOPRENE SEAT, WCB BODY, 316 SS SPRING AND TRIM, CLOSED TALL STANDARD, FOR R-134A SERVICE.  PER ATTACHED QUOTE
PSV-1231A26	29410052P27	659D2148(1) C7	VALVE, PRESSURE SAFETY; 1/2" FPT X 1" FPT; HYDROSEAL; MODEL NUMBER: 15D1F0C10; WCB; SET PRESSURE = 200 PSIG, 0.129 SQ. IN ORIFICE, NEOPRENE SEAT, WCB BODY, 316 SS SPRING AND TRIM, CLOSED TALL STANDARD, FOR R-134A SERVICE.  PER ATTACHED QUOTE
PT-1231A0	29410023P03	659D2146(1) D3	TRANSMITTER, PRESSURE; ROSEMOUNT; 3051TA4A2B21AS5E5M5T1Q4B4TRD1 3051T Pressure Transmitter A - Pressure Type -Absolute 4 - Pressure Upper Range Limit TG: 4000 psi (275.8 bar) TA: 4000 psia (275.8 bar) A - Transmitter Output 4-20 mA with Digital Signal Based on HART Protocol

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			2B - Process Connection Style 1/2-14 NPT Female 2 - Isolating Diaphragm 316L SST 1 - Sensor Fill Fluid Silicone A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14 NPT B4 - Mounting Bracket for 2-in. Pipe or Panel Mounting, All SST E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof M5 - Display - Type LCD T1 - Transient Protection Terminal Block Q4 - Quality Certification Calibration Certificate S5 - Integral Assembly Assemble to 306 Integral Manifold TR - Transmitter Version Transmitter Revision 5 D1 - Zero/Span Adjustment, Hardware adjustments (zero, span, alarm, security) CALIBRATION RANGE 0 -200 PSIA 0306RT22AA11 0306 - INTEGRAL MANIFOLD R - Manufacturer, Rosemount T - Manifold Style - Threaded Manifold Style 2 - Manifold Type, 2-Valve Manifold 2 - Materials of Construction - All 316 Mat'l of Construction AA - Process Connection, 1/2-14 male NPT 1 - Packing Material, TFE 1 - Integral Valve Seat
PT-1231A1	29410023P03	659D2146(2) D6	TRANSMITTER, PRESSURE; ROSEMOUNT; 3051TA4A2B21AS5E5M5T1Q4B4TRD1 3051T Pressure Transmitter A - Pressure Type -Absolute 4 - Pressure Upper Range Limit TG: 4000 psi (275.8 bar) TA: 4000 psia (275.8 bar) A - Transmitter Output 4-20 mA with Digital Signal Based on HART Protocol 2B - Process Connection Style 1/2-14 NPT Female 2 - Isolating Diaphragm 316L SST 1 - Sensor Fill Fluid Silicone A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14 NPT B4 - Mounting Bracket for 2-in. Pipe or Panel Mounting, All SST E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof M5 - Display - Type LCD T1 - Transient Protection Terminal Block Q4 - Quality Certification Calibration Certificate S5 - Integral Assembly Assemble to 306 Integral Manifold TR - Transmitter Version Transmitter Revision 5 D1 - Zero/Span Adjustment, Hardware adjustments (zero, span, alarm, security) CALIBRATION RANGE 0 -200 PSIA 0306RT22AA11 0306 - INTEGRAL MANIFOLD R - Manufacturer, Rosemount T - Manifold Style - Threaded Manifold Style

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
PT-1231A13	29410023P01	659D2147(1) C4	<p>2 - Manifold Type, 2-Valve Manifold  2 - Materials of Construction - All 316 Mat'l of Construction  AA - Process Connection, 1/2-14 male NPT  1 - Packing Material, TFE  1 - Integral Valve Seat</p> <p>TRANSMITTER, PRESSURE; ROSEMOUNT;  3051TG4A2B21AE5M5T1Q4S5B4TRD1  3051T Pressure Transmitter  G - Pressure Type -Gage  4 - Pressure Upper Range Limit TG: 4000 psi (275.8 bar) TA:  4000 psia (275.8 bar)  A - Transmitter Output 4-20 mA with Digital Signal Based on  HART Protocol  2B - Process Connection Style 1/2-14 NPT Female  2 - Isolating Diaphragm 316L SST  1 - Sensor Fill Fluid Silicone  A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14  NPT  B4 - Mounting Bracket for 2-in. Pipe or Panel Mounting, All  SST  E5 - Product Certifications FM Explosion-proof, Dust Ignition-  proof  M5 - Display - Type LCD  T1 - Transient Protection Terminal Block  Q4 - Quality Certification Calibration Certificate  S5 - Integral Assembly Assemble to 306 Integral Manifold  TR - Transmitter Version Transmitter Revision 5  D1 - Zero/Span Adjustment, Hardware adjustments (zero,  span, alarm, security)  CALIBRATION RANGE 0 -200 PSIG  0306RT22AA11  0306 - INTEGRAL MANIFOLD  R - Manufacturer, Rosemount  T - Manifold Style - Threaded Manifold Style  2 - Manifold Type, 2-Valve Manifold  2 - Materials of Construction - All 316 Mat'l of Construction  AA - Process Connection, 1/2-14 male NPT  1 - Packing Material, TFE  1 - Integral Valve Seat</p>
PT-1231A15	29410023P01	659D2147(1) C8	<p>TRANSMITTER, PRESSURE; ROSEMOUNT;  3051TG4A2B21AE5M5T1Q4S5B4TRD1  3051T Pressure Transmitter  G - Pressure Type -Gage  4 - Pressure Upper Range Limit TG: 4000 psi (275.8 bar) TA:  4000 psia (275.8 bar)  A - Transmitter Output 4-20 mA with Digital Signal Based on  HART Protocol  2B - Process Connection Style 1/2-14 NPT Female  2 - Isolating Diaphragm 316L SST  1 - Sensor Fill Fluid Silicone  A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14  NPT  B4 - Mounting Bracket for 2-in. Pipe or Panel Mounting, All  SST</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			<p>E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof  M5 - Display - Type LCD  T1 - Transient Protection Terminal Block  Q4 - Quality Certification Calibration Certificate  S5 - Integral Assembly Assemble to 306 Integral Manifold  TR - Transmitter Version Transmitter Revision 5  D1 - Zero/Span Adjustment, Hardware adjustments (zero, span, alarm, security)  CALIBRATION RANGE 0 -200 PSIG  0306RT22AA11  0306 - INTEGRAL MANIFOLD  R - Manufacturer, Rosemount  T - Manifold Style - Threaded Manifold Style  2 - Manifold Type, 2-Valve Manifold  2 - Materials of Construction - All 316 Mat'l of Construction  AA - Process Connection, 1/2-14 male NPT  1 - Packing Material, TFE  1 - Integral Valve Seat</p>
PT-1231A2	29410023P03	659D2146(2) D5	<p>TRANSMITTER, PRESSURE; ROSEMOUNT;  3051TA4A2B21AS5E5M5T1Q4B4TRD1  3051T Pressure Transmitter  A - Pressure Type -Absolute  4 - Pressure Upper Range Limit TG: 4000 psi (275.8 bar) TA: 4000 psia (275.8 bar)  A - Transmitter Output 4-20 mA with Digital Signal Based on HART Protocol  2B - Process Connection Style 1/2-14 NPT Female  2 - Isolating Diaphragm 316L SST  1 - Sensor Fill Fluid Silicone  A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14 NPT  B4 - Mounting Bracket for 2-in. Pipe or Panel Mounting, All SST  E5 - Product Certifications FM Explosion-proof, Dust Ignition-proof  M5 - Display - Type LCD  T1 - Transient Protection Terminal Block  Q4 - Quality Certification Calibration Certificate  S5 - Integral Assembly Assemble to 306 Integral Manifold  TR - Transmitter Version Transmitter Revision 5  D1 - Zero/Span Adjustment, Hardware adjustments (zero, span, alarm, security)  CALIBRATION RANGE 0 -200 PSIA  0306RT22AA11  0306 - INTEGRAL MANIFOLD  R - Manufacturer, Rosemount  T - Manifold Style - Threaded Manifold Style  2 - Manifold Type, 2-Valve Manifold  2 - Materials of Construction - All 316 Mat'l of Construction  AA - Process Connection, 1/2-14 male NPT  1 - Packing Material, TFE  1 - Integral Valve Seat</p>
PT-1231A3	29410023P02	659D2146(1) D6	<p>TRANSMITTER, PRESSURE; ROSEMOUNT;</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			<p>3051TA4A2B21AE5M5T1Q4B4TRD1  3051T Pressure Transmitter  A - Pressure Type -Absolute  4 - Pressure Upper Range Limit TG: 4000 psi (275.8 bar) TA:  4000 psia (275.8 bar)  A - Transmitter Output 4-20 mA with Digital Signal Based on  HART Protocol  2B - Process Connection Style 1/2-14 NPT Female  2 - Isolating Diaphragm 316L SST  1 - Sensor Fill Fluid Silicone  A - Housing/Conduit Polyurethane-covered Aluminum, 1/2-14  NPT  B4 - Mounting Bracket for 2-in. Pipe or Panel Mounting, All  SST  E5 - Product Certifications FM Explosion-proof, Dust Ignition-  proof  M5 - Display - Type LCD  T1 - Transient Protection Terminal Block  Q4 - Quality Certification Calibration Certificate  TR - Transmitter Version Transmitter Revision 5  D1 - Zero/Span Adjustment, Hardware adjustments (zero,  span, alarm, security)  CALIBRATION RANGE 0 -200 PSIA</p>
PV-1231A1	29410052P33	659D2149(1) B5	<p>VALVE, CONTROL; 24" 150# RF; FISHER; MODEL  NUMBER: B5113-02-S02-11; WCC STEEL; LUGGED  STYLE, 316 SST DISC, RTFE SEAL RING, BUBBLE TIGHT  SHUT OFF, 17-4 PH SST SHAFT, TFE LINED STEEL  BEARINGS, AND PTFE PACKING. THE ACTUATOR WILL  BE A BETTIS TYPE G2012-SR3 SPRING RETURN PISTON  DESIGN, 80-100 PSIG OPERATING PRESSURE, AIR TO  CLOSE/FAIL OPEN ACTION. STANDARD ACTUATOR TO  VALVE BODY ORIENTATION WILL BE TO HAVE THE  ACTUATOR ABOVE THE VALVE, PARALLEL TO THE  PIPE, INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA  INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS,  WITH INTEGRATED 4-20 MA POSITION TRANSMITTER,  67CFR AIRSET, STAINLESS STEEL TUBING AND  SWAGELOK FITTINGS. ALSO INCLUDED WILL BE AN  ASCO EV8316G384VMB LOW POWERED SOLENOID  VALVE, 24 VDC, HIGH TEMPERATURE COIL,  CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO  THE ACTUATOR WITH STAINLESS STEEL TUBING AND  SWAGELOK FITTINGS</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 5</p> <p>VENDOR NOT TO TAG</p>
PV-1231A2	29410052P36	659D2149(1) B5	<p>VALVE, CONTROL; 12" 150# RF; FISHER; MODEL  NUMBER: B5113-02-S02-11; WCC STEEL; LUGGED  STYLE, 316 SST DISC, 17-4 PH SST SHAFT, RTFE SEAL  RING, BUBBLE TIGHT SHUT OFF, TFE LINED STEEL  BEARINGS, AND PTFE PACKING. THE ACTUATOR WILL  BE A SIZE 60, 0-40 PSIG AIR TO DIAPHRAGM, 7.0-26.0  PSIG BENCH SET, 90 DEGREE ROTATION, AIR TO</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			<p>CLOSE/FAIL OPEN ACTION.THE ACTUATOR TO VALVE ORIENTATION WILL BE RIGHT HAND MOUNTED POSITION 1 UNLESS OTHERWISE REQUESTED, INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS, WITH INTEGRATED 4-20 MA POSITION TRANSMITTER, 67CFR AIRSET, STAINLESS STEEL TUBING AND SWAGELOK FITTINGS. ALSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR WITH STAINLESS STEEL TUBING AND SWAGELOK FITTINGS</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 8</p> <p>VENDOR NOT TO TAG</p>
PV-1231A3	29410052P37	659D2149(1) C5	<p>VALVE, CONTROL; 16" 150# RF; FISHER; MODEL NUMBER: B5113-02-S02-11; WCC STEEL; LUGGED STYLE, 316 SST DISC, 17-4 PH SST SHAFT, RTFE SEAL RING, BUBBLE TIGHT SHUT OFF, TFE LINED STEEL BEARINGS, AND PTFE PACKING. THE ACTUATOR IS A SIZE 70, 0-55 PSIG AIR TO DIAPHRAGM, 10.1-28.1 PSIG BENCH SET, 90 DEGREE ROTATION, AIR TO CLOSE/FAIL OPEN ACTION. THE ACTUATOR TO VALVE ORIENTATION WILL BE RIGHT HAND MOUNTED POSITION 1 UNLESS OTHERWISE REQUESTED, INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS, WITH INTEGRATED 4-20 MA POSITION TRANSMITTER, 67CFR AIRSET, STAINLESS STEEL TUBING AND SWAGELOK FITTINGS. ALSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR WITH STAINLESS STEEL TUBING AND SWAGELOK FITTINGS</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 9</p> <p>VENDOR NOT TO TAG</p>
PV-401	848E1949G01	659D2146(1) A3	SEAL OIL RECOVERY TANK; 12 3/4" OD X 16" HIGH; CS
SC-401	944A0484H01	659D2146(1) C7	SAMPLE CYLINDER; SWAGELOK; MODEL NUMBER: 304L-HDF8-1GAL. SS; 304IL STAINLESS STEEL; 4" DIA X 27" NOMINAL LENGTH; 1 GALLON CAPACITY; 1800 PSIG DWP; 1/2" NPTF CONNECTIONS.
STR-401	950A0069H05	659D2148(1) C5	STRAINER; 1" FSW; HAYWARD; MODEL NUMBER: 85Y-STRAINER; CS; 60 MESH LINED BASKET; STAINLESS STEEL BASKET AND MESH; CLASS 600 LB; 1/2" FPT DRAIN
STR-501	950A0069H05	659D2148(1) B5	STRAINER; 1" FSW; HAYWARD; MODEL NUMBER: 85Y-STRAINER; CS; 60 MESH LINED BASKET; STAINLESS

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			STEEL BASKET AND MESH; CLASS 600 LB; 1/2" FPT DRAIN
TCV-1231A32	950A0228H42	659D2148(1) C6	VALVE, TEMPERATURE CONTROL; 3/4" SW; JORDAN VALVE; MODEL NUMBER: MARK 80; CARBON STEEL; TEMPERATURE RANGE 80 F TO 140 F; 316 SS TRIM; JORDANIC COATED SEATS; CAST IRON YOKE; 316 SS ACTUATOR; N-BUTANE THERMAL FILL; STEM PACKING IS SPRING LOADED TEFLON; MAX OPERATING TEMP 500 F; ANSI CL IV SHUTOFF; REVERSE ACTING (TEMP INCREASE OPENS VALVE); FAIL CLOSED; 1480 PSIG DESIGN WORKING PRESSURE; -20 F TO +500 F DESIGN TEMP; OVERHEAT PROTECTION OF 100 F ABOVE TOP END OF CONTROL RANGE; INCLUDES 1" MPT X 14" "U" DIM, TYPE A SS THERMOWELL; 15 FT OF SS ARMORED CAPILLARY WITH STAINLESS STEEL BULB; MAX DELTA P=300 PSID; CV-4.4; TEMP SPAN FROM OPEN TO CLOSED 11 F..
TCV-1231A35	950A0228H42	659D2148(1) B6	VALVE, TEMPERATURE CONTROL; 3/4" SW; JORDAN VALVE; MODEL NUMBER: MARK 80; CARBON STEEL; TEMPERATURE RANGE 80 F TO 140 F; 316 SS TRIM; JORDANIC COATED SEATS; CAST IRON YOKE; 316 SS ACTUATOR; N-BUTANE THERMAL FILL; STEM PACKING IS SPRING LOADED TEFLON; MAX OPERATING TEMP 500 F; ANSI CL IV SHUTOFF; REVERSE ACTING (TEMP INCREASE OPENS VALVE); FAIL CLOSED; 1480 PSIG DESIGN WORKING PRESSURE; -20 F TO +500 F DESIGN TEMP; OVERHEAT PROTECTION OF 100 F ABOVE TOP END OF CONTROL RANGE; INCLUDES 1" MPT X 14" "U" DIM, TYPE A SS THERMOWELL; 15 FT OF SS ARMORED CAPILLARY WITH STAINLESS STEEL BULB; MAX DELTA P=300 PSID; CV-4.4; TEMP SPAN FROM OPEN TO CLOSED 11 F..
TE-1231A0A & B	29410023P12	659D2146(1) C4	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A100T26E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 100- Sensor immersion length - 10 inch T26 - Thermowell Mounting Style - 3/4 inch NPT tapered E5 - Factory Mutual FM Explosion-Proof Approval
TE-1231A13A & B	29410023P19	659D2146(1) A6	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A040W38E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
TE-1231A14A & B	29410023P19	659D2146(1) A6	<p>5 - Sensor Type - Dual-Element Sensor  C - Extension Type - Extension Type = Nipple Union  30 - Extension Length - 3.0 inch  A - Thermowell Material - 316SS  040- Sensor immersion length - 4 inch  W38 -Thermowell Mounting Style - 3/4 inch SW straight  E5 - Factory Mutual FM Explosion-Proof Approval</p> <p>RTD, 100 OHM PLATINUM 3 WIRE; Rosemount;  0078D25C30A040W38E5  0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3  wire  D - Sensor Leadwire Termination - Rosemount Aluminum  Connection Head with 1/2" Entries  2 - Adapter Type - Spring-Loaded Style  5 - Sensor Type - Dual-Element Sensor  C - Extension Type - Extension Type = Nipple Union  30 - Extension Length - 3.0 inch  A - Thermowell Material - 316SS  040- Sensor immersion length - 4 inch  W38 -Thermowell Mounting Style - 3/4 inch SW straight  E5 - Factory Mutual FM Explosion-Proof Approval</p>
TE-1231A15A & B	29410023P16	659D2146(1) C7	<p>RTD, 100 OHM PLATINUM 3 WIRE; Rosemount;  0078D25C30A040T38E5  0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3  wire  D - Sensor Leadwire Termination - Rosemount Aluminum  Connection Head with 1/2" Entries  2 - Adapter Type - Spring-Loaded Style  5 - Sensor Type - Dual-Element Sensor  C - Extension Type - Extension Type = Nipple Union  30 - Extension Length - 3.0 inch  A - Thermowell Material - 316SS  040- Sensor immersion length - 4 inch  T38 -Thermowell Mounting Style - 3/4 inch NPT straight  E5 - Factory Mutual FM Explosion-Proof Approval</p>
TE-1231A1A & B	29410023P14	659D2146(2) D6	<p>RTD, 100 OHM PLATINUM 3 WIRE; Rosemount;  0078D25C30A100F62E5  0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3  wire  D - Sensor Leadwire Termination - Rosemount Aluminum  Connection Head with 1/2" Entries  2 - Adapter Type - Spring-Loaded Style  5 - Sensor Type - Dual-Element Sensor  C - Extension Type - Extension Type = Nipple Union  30 - Extension Length - 3.0 inch  A - Thermowell Material - 316SS  100- Sensor immersion length - 10 inch  T26 - Thermowell Mounting Style - 2 inch CLASS 150 # ANSI  Raised Face Flanged tapered  E5 - Factory Mutual FM Explosion-Proof Approval</p>
TE-1231A20A & B	29410023P16	659D2147(1) B6	<p>RTD, 100 OHM PLATINUM 3 WIRE; Rosemount;  0078D25C30A040T38E5  0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 040- Sensor immersion length - 4 inch T38 -Thermowell Mounting Style - 3/4 inch NPT straight E5 - Factory Mutual FM Explosion-Proof Approval
TE-1231A21A & B	29410023P19	659D2147(1) B4	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A040W38E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 040- Sensor immersion length - 4 inch W38 -Thermowell Mounting Style - 3/4 inch SW straight E5 - Factory Mutual FM Explosion-Proof Approval
TE-1231A2A & B	29410023P14	659D2146(2) D4	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A100F62E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 100- Sensor immersion length - 10 inch T26 - Thermowell Mounting Style - 2 inch CLASS 150 # ANSI Raised Face Flanged tapered E5 - Factory Mutual FM Explosion-Proof Approval
TE-1231A3A & B	29410023P13	659D2146(1) C6	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A070T26E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 070- Sensor immersion length - 7 inch T26 - Thermowell Mounting Style - 3/4 inch NPT tapered E5 - Factory Mutual FM Explosion-Proof Approval

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
TE-1231A4A & B	29410023P14	659D2149(1) D8	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A100F62E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 100- Sensor immersion length - 10 inch T26 - Thermowell Mounting Style - 2 inch CLASS 150 # ANSI Raised Face Flanged tapered E5 - Factory Mutual FM Explosion-Proof Approval
TE-1231A5A & B	29410023P14	659D2149(1) C3	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A100F62E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 100- Sensor immersion length - 10 inch T26 - Thermowell Mounting Style - 2 inch CLASS 150 # ANSI Raised Face Flanged tapered E5 - Factory Mutual FM Explosion-Proof Approval
TE-1231A6A & B	29410023P15	659D2149(1) B3	RTD, 100 OHM PLATINUM 3 WIRE; Rosemount; 0078D25C30A090F62E5 0078 - WIRE-WOUND PLATINUM RTD SENSOR 100 ohm 3 wire D - Sensor Leadwire Termination - Rosemount Aluminum Connection Head with 1/2" Entries 2 - Adapter Type - Spring-Loaded Style 5 - Sensor Type - Dual-Element Sensor C - Extension Type - Extension Type = Nipple Union 30 - Extension Length - 3.0 inch A - Thermowell Material - 316SS 090- Sensor immersion length - 9 inch T26 - Thermowell Mounting Style - 2 inch CLASS 150 # ANSI Raised Face Flanged tapered E5 - Factory Mutual FM Explosion-Proof Approval
TG-1231A31	990A0026H02	659D2148(1) D6	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A33	990A0026H02	659D2148(1) C6	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A37	990A0026H02	659D2147(1) C6	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A39	990A0026H02	659D2147(1) B5	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A40	990A0026H02	659D2146(1) D4	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A42	990A0026H02	659D2146(1) B7	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A43	990A0026H02	659D2146(1) A7	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A44	990A0026H02	659D2146(1) A7	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TG-1231A46	990A0026H02	659D2146(1) A4	THERMOMETER, BIMETALLIC; TREND INST. INC. / ASHCROFT; MODEL NUMBER: 52060 / 50EI60E060; 5" DIAL; BIMETALLIC; 1/4" DIA STEM x 6" LONG STAINLESS STEEL BODY AND STEM; UNIVERSAL ANGLE MOUNTING; RANGE 0 TO 250 F/-2RANGE 0 TO 120 C
TT-1231A0	29410023P10	659D2146(1) C5	TRANSMITTER, TEMPERATURE; ROSEMOUNT; 3144PD1A1E5M5B5T1C4Q4 3144P- TEMPERATURE TRANSMITTER D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT) A - Output - 4-20 mA with Digital Signal based on HART protocol 1 - Measurement Type Configuration - Single Sensor Input E5 - Product Certifications - FM Explosion-Proof & Non-Incendive Approval B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts M5 - Meter - type LCD

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
TT-1231A1	29410023P09	659D2146(2) D6	<p>T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE MINUS 50 TO PLUS 150°F</p> <p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TT-1231A13	29410023P09	659D2146(1) A6	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TT-1231A14	29410023P09	659D2146(1) A6	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
TT-1231A15	29410023P09	659D2146(1) C7	<p>B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TT-1231A2	29410023P09	659D2146(2) D4	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TT-1231A20	29410023P09	659D2147(1) C6	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
TT-1231A21	29410023P09	659D2147(1) B5	<p>1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p> <p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TT-1231A3	29410023P11	659D2146(1) C5	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 300°F</p>
TT-1231A4	29410023P09	659D2149(1) C3	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			<p>Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TT-1231A4	29410023P09	659D2149(1) D8	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount  Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TT-1231A5	29410023P09	659D2149(1) C3	<p>TRANSMITTER, TEMPERATURE; ROSEMOUNT;  3144PD1A1E5M5B5T1C4Q4  3144P- TEMPERATURE TRANSMITTER  D1 - Transmitter Housing Type/Conduit Entry - Field Mount  Housing (Dual-Compartment, Aluminum, 1/2-14 NPT)  A - Output - 4-20 mA with Digital Signal based on HART protocol  1 - Measurement Type Configuration - Single Sensor Input  E5 - Product Certifications - FM Explosion-Proof &amp; Non-Incendive Approval  B5 - Universal "L" mounting bracket for 2-inch pipe mounting - SST bracket and bolts  M5 - Meter - type LCD  T1 - Integral Transient Protector  C4 - Five (5)-point calibration (use option code Q4 to generate calibration certificate)  Q4 - Calibration Certification (3-point standard; use C4 with Q4 option for a 5-point calibration cert)  CALIBRATION RANGE 0 TO PLUS 200°F</p>
TV-1231A4	29410052P29	659D2149(1) D7	<p>VALVE, CONTROL; 1" 150# RF; FISHER; MODEL</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			<p>NUMBER: 667 ET; WCC STEEL; EQUAL PERCENTAGE TRIM # 1, 416 SST PLUG AND SEAT RING, 17-4 PH SST CAGE, NITRILE BACK UP RING, 1.3125" PORT, ANSI CLASS IV LEAKAGE RATE, DOUBLE PTFE PACKING FOR PRESSURE/VACUUM SERVICE. THE ACTUATOR IS A SIZE 30, 0-18 PSIG AIR TO DIAPHRAGM, 7-15 PSIG BENCH SET, 3/4" TRAVEL, AIR TO OPEN/FAIL CLOSED ACTION. INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS, WITH INTEGRATED 4-20 MA POSITION TRANSMITTER, 67CFR AIRSET, STAINLESS STEEL TUBING AND SWAGELOK FITTINGS. ALSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR WITH STAINLESS STEEL TUBING AND SWAGELOK FITTINGS</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 1</p> <p>VENDOR NOT TO TAG</p>
TV-1231A5	29410052P31	659D2149(1) C4	<p>VALVE, CONTROL; 1 1/2" 150# RF; FISHER; MODEL NUMBER: 667 ET; WCC STEEL; EQUAL PERCENTAGE TRIM # 1, 416 SST PLUG AND SEAT RING, 17-4 PH SST CAGE, NITRILE BACK UP RING, 1.875" PORT, ANSI CLASS IV LEAKAGE RATE, DOUBLE PTFE PACKING FOR PRESSURE/VACUUM SERVICE. THE ACTUATOR IS A SIZE 30, 0-18 PSIG AIR TO DIAPHRAGM, 9-15 PSIG BENCH SET, 3/4" TRAVEL, AIR TO OPEN/FAIL CLOSED ACTION, INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS, WITH INTEGRATED 4-20 MA POSITION TRANSMITTER, 67CFR AIRSET, STAINLESS STEEL TUBING AND SWAGELOK FITTINGS. ALSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR WITH STAINLESS STEEL TUBING AND SWAGELOK FITTINGS</p> <p>PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 3</p> <p>VENDOR NOT TO TAG</p>
TV-1231A6	29410052P34	659D2149(1) C4	<p>VALVE, CONTROL; 1" 150# RF; FISHER; MODEL NUMBER: 667 EZ; WCC STEEL; 1/2" PORT, MICRO-FORM EQUAL PERCENTAGE TRIM # 101, 416 SST PLUG AND SEAT RING, 17-4 PH SST SEAT RETAINER, ANSI CLASS IV LEAKAGE RATE, DOUBLE PTFE PACKING FOR PRESSURE/VACUUM SERVICE. THE ACTUATOR WILL BE A SIZE 30, 0-18 PSIG AIR TO DIAPHRAGM, 7-15 PSIG BENCH SET, 3/4" TRAVEL, AIR TO OPEN/FAIL CLOSED ACTION, INCLUDED IS A DIGITAL I/P POSITIONER, 4-20 MA INPUT, FM/CSA APPROVALS, ADVANCED DIAGNOSTICS, WITH INTEGRATED 4-20 MA POSITION</p>

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			TRANSMITTER, 67CFR AIRSET, STAINLESS STEEL TUBING AND SWAGelok FITTINGS. ALSO INCLUDED WILL BE AN ASCO EV8316G384VMB LOW POWERED SOLENOID VALVE, 24 VDC, HIGH TEMPERATURE COIL, CONTINUOUS DUTY, IN 316 SST, CASING MOUNTED TO THE ACTUATOR WITH STAINLESS STEEL TUBING AND SWAGelok FITTINGS
			PER ATTACHED QUOTE (DJR022609 REV 2) ITEM 6
			VENDOR NOT TO TAG
TW-1231A31	990A0049H03	659D2148(1) D6	WELL, THERMAL; 3/4" MSW" OD X 1/2" FPT; FRICK STANDARD; 316 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS; 6 3/8" OVERALL LENGTH.
TW-1231A33	990A0049H03	659D2148(1) C6	WELL, THERMAL; 3/4" MSW" OD X 1/2" FPT; FRICK STANDARD; 316 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS; 6 3/8" OVERALL LENGTH.
TW-1231A37	990A0006H03	659D2147(1) C6	WELL, THERMOMETER; 3/4" MPT" OD X 1/2" FPT; FRICK STANDARD; 304 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS.
TW-1231A39	990A0049H03	659D2147(1) B5	WELL, THERMAL; 3/4" MSW" OD X 1/2" FPT; FRICK STANDARD; 316 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS; 6 3/8" OVERALL LENGTH.
TW-1231A40	990A0006H03	659D2146(1) D4	WELL, THERMOMETER; 3/4" MPT" OD X 1/2" FPT; FRICK STANDARD; 304 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS.
TW-1231A42	990A0049H03	659D2146(1) B7	WELL, THERMAL; 3/4" MSW" OD X 1/2" FPT; FRICK STANDARD; 316 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS; 6 3/8" OVERALL LENGTH.
TW-1231A43	990A0049H03	659D2146(1) A7	WELL, THERMAL; 3/4" MSW" OD X 1/2" FPT; FRICK STANDARD; 316 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS; 6 3/8" OVERALL LENGTH.
TW-1231A44	990A0049H03	659D2146(1) A7	WELL, THERMAL; 3/4" MSW" OD X 1/2" FPT; FRICK STANDARD; 316 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS; 6 3/8" OVERALL LENGTH.
TW-1231A46	990A0049H03	659D2146(1) A4	WELL, THERMAL; 3/4" MSW" OD X 1/2" FPT; FRICK

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
			STANDARD; 316 SS; WITHOUT LAGGING EXTENSION; 4 1/2" "U" DIMENSION (INSERTION LENGTH); .260" DIA BORE; FOR 6" THERMOMETER STEMS; 6 3/8" OVERALL LENGTH.
XV-1231A2	29410052P28	659D2149(1) D6	VALVE, AUTO ISOLATION; 1 1/2" 150# RF; SHARPE; MODEL NUMBER: SERIES 50; CS; ASTM A216 WCB BODY, 316 SS BALL AND STEM, REINFORCED TEFLON SEAT, TEFLON SEAL, FULL BORE, PNEUMATIC RACK AND PINION ACTUATOR, SPRING RETURN, FAIL CLOSED, EPIC 360 SERIES D460 NON-CONTACT HART ENABLED POSITION TRANSMITTER, 24VDC SS 3-WAY AIR DUMP SOLENOID, CLASS 1 DIV II, GROUP C&D, 316 TUBING AND FITTINGS. INCLUDE COST FOR BELLOFRAM AIR FILTER REGULATOR.  PER ATTACHED QUOTE ITEM 2
XV-1231A3	29410052P38	659D2149(1) C4	VALVE, AUTO ISOLATION; 2 1/2" 150# RF; SHARPE; MODEL NUMBER: SERIES 50; CS; ASTM A216 WCB BODY, 316 SS BALL AND STEM, REINFORCED TEFLON SEAT, TEFLON SEAL, FULL BORE, PNEUMATIC RACK AND PINION ACTUATOR, SPRING RETURN, FAIL CLOSED, EPIC 360 SERIES D460 NON-CONTACT HART ENABLED POSITION TRANSMITTER, 24VDC SS 3-WAY AIR DUMP SOLENOID, CLASS 1 DIV II, GROUP C&D, 316 TUBING AND FITTINGS. INCLUDE COST FOR BELLOFRAM AIR FILTER REGULATOR.  PER ATTACHED QUOTE ITEM 3
XV-1231A4	29410052P39	659D2149(1) C4	VALVE, AUTO ISOLATION; 1" 150# RF; SHARPE; MODEL NUMBER: SERIES 50; CS; ASTM A216 WCB BODY, 316 SS BALL AND STEM, REINFORCED TEFLON SEAT, TEFLON SEAL, FULL BORE, PNEUMATIC RACK AND PINION ACTUATOR, SPRING RETURN, FAIL CLOSED, EPIC 360 SERIES D460 NON-CONTACT HART ENABLED POSITION TRANSMITTER, 24VDC SS 3-WAY AIR DUMP SOLENOID, CLASS 1 DIV II, GROUP C&D, 316 TUBING AND FITTINGS. INCLUDE COST FOR BELLOFRAM AIR FILTER REGULATOR.  PER ATTACHED QUOTE ITEM 1
XV-1231A5	29410052P28	659D2048(1) B4	VALVE, AUTO ISOLATION; 1 1/2" 150# RF; SHARPE; MODEL NUMBER: SERIES 50; CS; ASTM A216 WCB BODY, 316 SS BALL AND STEM, REINFORCED TEFLON SEAT, TEFLON SEAL, FULL BORE, PNEUMATIC RACK AND PINION ACTUATOR, SPRING RETURN, FAIL CLOSED, EPIC 360 SERIES D460 NON-CONTACT HART ENABLED POSITION TRANSMITTER, 24VDC SS 3-WAY AIR DUMP SOLENOID, CLASS 1 DIV II, GROUP C&D, 316 TUBING AND FITTINGS. INCLUDE COST FOR BELLOFRAM AIR FILTER REGULATOR.  PER ATTACHED QUOTE ITEM 2

<b>Tag No</b>	<b>Item Master</b>	<b>Location</b>	<b>Description</b>
XV-1231A6	29410052P20	659D2148(1) C4	<p>VALVE, CONTROL; 2" 150# RF; FISHER; MODEL NUMBER: V150; WCC STEEL; V-NOTCH BALL ; 317 SST BALL; TCM PLUS SEAL; AIR TO OPEN, FAIL CLOSE; PTFE V-RING PACKING; DVC 2000 DIGITAL CONTROLLER; NEMA 4X, 7 CLASS 1, GR C,D, DIV 1; FM &amp; CSA APPROVED; 67CFR AIRSET REGULATOR; TYPE 1052 ACTUATOR/ SIZE 20; ACTUATOR MOUNTED ON RIGHT SIDE VIEWED FROM UPSTREAM OF VALVE; 3-15 PSIG AIR TO POSITIONER; DUAL SCALE ENG/SI WEATHERPROOF GAGES; SS TUBE, SWAGELOK FITTINGS; 200 PSI MAX DIFFERENTIAL SHUTOFF.</p> <p>PER ATTACHED QUOTE (DJR022609 Rev 2) ITEM 10</p>
XV-1231A7	29410052P23	659D2146(1) D5	<p>VALVE, AUTO SUMP VENT, PNEUMATIC; 1" FPT X 1" FSW; WORCESTER; MODEL NUMBER: CPT4446PMSW/SE; CARBON STEEL; COMPLETE MODEL NUMBER: 1" CPT4446PMSW/SE-A60/1539SN/MK503S/5237NIEHKA0BF; WITH 60 DEG CHARACTERIZED SEAT; LINEAR CHARACTERISTICS; WITH 1/8" DIA HOLE DRILLED THROUGH CLOSED PORTION OF BALL; 316 SS BALL &amp; STEM; POLYFILL SEAT AND BODY SEALS; VALVE BODY DWP 1000 PSIG @ -50 F TO +200 F; 1539 SPRING RETURN ACTUATOR; 80 TO 120 PSIG SUPPLY AIR PRESSURE; FAILS CLOSED; ICoT INTELLIGENT POSITIONER TAKES 4-20mA INPUT SIGNAL; NON-INCENDIVE FOR USE IN CLASS 1 GROUPS C &amp; D DIV 2 HAZARDOUS LOCATION; INCLUDE POSITION TRANSMITTER WITH 4-20mA OUTPUT SIGNAL; ALLOWABLE ACTUATOR AMBIENT TEMPERATURE LIMITS -40 F TO +185 F; .</p>