VALVES, PUMPS AND SWITCHES SCHEDULE

TAG	LOCATION	DESCRIPTION	MANUFACTURER	MODEL	NOTES
P-L03	COMMINUTOR CHAMBER	SUMP PUMP	ZOELLER	D294	HEAVY DUTY CAST IRON AUTOMATIC SEWAGE SUMP PUMP. 227 L/m (60 GPM) AT 16 M (52 FT) HEAD. 50 mm (2 IN) DIA SPHERICAL SOLIDS HANDLING. CAST IRON CONSTRUCTED SWITCH CASE, BASE, MOTOR AND PUMP HOSING. STAILESS STEEL SCREWS, BOLTS, FLOAT ROAD, HANDLE, GUARD, ARM AND SEAL ASSEMBLY. OIL FILLED, HERMETICALLY SEALED, AUTOMATIC RESET THERMAL OVERLOAD PROTECTION MOTOR. 1.5 HP, 208 V/1/60. SHAFT MECHANICAL SEAL - STAINLESS STEEL CARBON AND CERAMIC ROTARY. CORROSION RESISTANT, POWDER COATED EPOXY FINISH. FLOAT OPERATED SUBMERSIBLE 2-POLE MECHANICAL SWITCH NEMA 6. 50 mm (2 IN) NPT FEMALE FLANGED DISCHARGE KIT. NON-CLOGGING CAST IRON VORTEX IMPELLERWEIGHT 41 KG (92 LBS). VARIABLE LEVEL FLOATS CONTROL. CSA APPROVED.
P-L04	PUMP ROOM	SUMP PUMP	ZOELLER	D294	HEAVY DUTY CAST IRON AUTOMATIC SEWAGE SUMP PUMP. 227 L/m (60 GPM) AT 16 M (52 FT) HEAD. 50 mm (2 IN) DIA SPHERICAL SOLIDS HANDLING. CAST IRON CONSTRUCTED SWITCH CASE, BASE, MOTOR AND PUMP HOSING. STAILESS STEEL SCREWS, BOLTS, FLOAT ROAD, HANDLE, GUARD, ARM AND SEAL ASSEMBLY. OIL FILLED, HERMETICALLY SEALED, AUTOMATIC RESET THERMAL OVERLOAD PROTECTION MOTOR. 1.5 HP, 208 V/1/60. SHAFT MECHANICAL SEAL - STAINLESS STEEL CARBON AND CERAMIC ROTARY. CORROSION RESISTANT, POWDER COATED EPOXY FINISH. FLOAT OPERATED SUBMERSIBLE 2-POLE MECHANICAL SWITCH NEMA 6. 50 mm (2 IN) NPT FEMALE FLANGED DISCHARGE KIT. NON-CLOGGING CAST IRON VORTEX IMPELLERWEIGHT 41 KG (92 LBS). VARIABLE LEVEL FLOATS CONTROL. CSA APPROVED.
HV-L201	PUMP ROOM	GATE VALVE	WATTS	LFWGV	19mm LEAD FREE BRASS GATE VALVE. NON-RISING STEM. THREADED BONNET. ALUMINUM HANDWHEEL. NITRILE PACKING. BRASS GLAND. LEAD FREEE BRASS WEDGE DISC. THREADED IPS END CONNECTIONS. RATED AT 1379 kPa (200 PSI).
HV-L202	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
FSL-L011	PUMP ROOM	FLOW SWITCH	UNITED ELECTRIC CONTROLS	J6-S156B	PRESSURE SWITCH WITH SPDT OUTPUT. SEALED ISOLATED 316 STAINLESS STEEL BELLOWS. 13mm NPT (FEMALE) 316 STAINLESS STEEL PRESSURE CONNECTION. PRESSURE SENSOR WITH 13mm NPT (FEMALE) ELECTRICAL CONNECTION. EXTERNAL MANUAL RESET. STAINLESS STEEL ID TAG AND WIRE ATTACHMENT. NEMA 4X ENCLOSURE. PRESSURE SET POINT RANGE 20 - 690 kPa (3 - 100 PSI). 120V/1PH/60 HZ. CSA APPROVED, ULC LISTED.
FSL-L021	PUMP ROOM	FLOW SWITCH	UNITED ELECTRIC CONTROLS	J6-S156B	
HV-L011	PUMP ROOM	SOLENOID VALVE	EMERSON	ASCO RED HAT II 8210	19mm PILOT OPERATED SOLENOID VALVE. 2-WAY, NORMALLY CLOSED (CLOSED WHEN DE-ENERGIZED). BODY 304 STAINLESS STEEL, NBR SEAL AND DISC. SOLENOID ENCLOSURE NEMA 4X. MAXIMUM OPERATING PRESSURE 1034 kPa (150 PSI), 0 - 40°c. 120V/1 PH/60 HZ. THREADED NPT (FEMALE) BOTH ENDS. CSA APPROVED, ULC LISTED.
XV-L021	PUMP ROOM	SOLENOID VALVE	EMERSON	ASCO RED HAT II 8210	
HV-L203	PUMP ROOM	PRESSURE REDUCING VALVE	WATTS	LFU5B-Z3	19mm IN-LINE WATER PRESSURE REDUCING VALVE. ADJUSTABLE FROM 172 - 517 kPa (25 - 75 PSI). LEAD FREE CAST COPPER SILICON ALLOY BODY. SEALED SPRING CAGE AND STAINLESS STEEL CORROSION RESISTANT ADJUSTING CAGE SCREWS. INTEGRAL STAINLESS STEEL STRAINER. STAINLESS STEEL SEAT. PRESSURE RATING 2068 Kpa (300 PSI). NPT THREADED FEMALE UNION INLET x NPT FEMALE OUTLET C/W BUILT-IN THERMAL EXPANSION BYPASS. STANDARD SETTING AT 345 kPa (50 PSI).
HV-L204	PUMP ROOM	PRESSURE REDUCING VALVE	WATTS	LFU5B-Z3	
HV-L205	PUMP ROOM	PRESSURE REDUCING VALVE	WATTS	LFU5B-Z3	
HV-L206	PUMP ROOM	PRESSURE REDUCING VALVE	WATTS	LFU5B-Z3	
HV-L207	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L208	PUMP ROOM	HISE BIBB	WATTS	SC8-4	19mm HOSE BIBB, CAST BRASS BODY, VACUUM BREAKER, METAL HANDLE
STR-L209	MAIN FLOOR	METER TRAIN STRAINER	ZURN	SXL	CAST BRONZE "Y" TYPE STARINER. CERTIFIED TO NSF/ANSI 372, SCREEN 20 MESH STAINLESS STEEL, 300 SERIES. FNPT CONNECTION WITH CLOSURE PLUG. PRESSURE/TEMPERATURE RATING 2068 KpA (300 PSI) WOG AT 82°C (180°)
BFP-L210	MAIN FLOOR	METER TRAIN BACKFLOW PREVENTER	WATTS	SERIES LF909	19mm LEAD-FREE ASSEMBLY OF TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS. THE CHECK MODULE SEATS AND SEAT DISCS ARE REPLACEABLE. SERVICE OF ALL INTERNAL COMPONENTS SHALL BE THROUGH A SINGLE ACCESS COVER SECURED WITH STAINLESS STEEL BOLTS. THE DOUBLE CHECK VALVE ASSEMBLIES SHALL BE CONSTRUCTED USING LEAD FREE CAST COPPER SILICON ALLOY. THE ASSEMBLY SHALL ALSO INCLUDE TWO RESILIENT SEATED ISOLATION VALVES; FOUR TOP MOUNTED, RESILIENT SEATED TEST COCKS. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE STD. 1015 AND AWWA STD. C510
FM-L211	MAIN FLOOR	FLOW METER	NEPTUNE	HP TURBINE	TURBINE TYPE COLD WATER METER. INLINE HORIZONTAL-AXIS TYPE PER AWWA CLASS II. CERTIFIED TO NSF/ANSI STANDARD 61 ANDNSF/ANSI 372. HIGH COPPER ALLOY MAINCASE, MAGNETIC DRIVEN ROLL-SEALED REGISTER. CORROSION-RESISTANT MAINCASE. FLANGED CONNECTIONS. BUILT-IN STRAINER. HYDRODINAMICALLY-BALANCED ROTOR.
HV-L212	MAIN FLOOR	GATE VALVE	WATTS	LFWGV	19mm LEAD FREE BRASS GATE VALVE. NON-RISING STEM. THREADED BONNET. ALUMINUM HANDWHEEL. NITRILE PACKING. BRASS GLAND. LEAD FREEE BRASS WEDGE DISC. THREADED IPS END CONNECTIONS. RATED AT 1379 kPa (200 PSI).
HV-L213	MAIN FLOOR	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L214	MAIN FLOOR	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
CV-L215	PUMP ROOM	CHECK VALVE		CF8M	13mm STAINLESS STEEL 316 SWING CHECK VALVE, 200 WOG, FEMALE NPT THREADED PORTS ANSI B1.20.1, PTFE SEAL.
CV-L216	PUMP ROOM	CHECK VALVE		CF8M	13mm STAINLESS STEEL 316 SWING CHECK VALVE, 200 WOG, FEMALE NPT THREADED PORTS ANSI B1.20.1, PTFE SEAL.
HV-L217	PUMP ROOM	BALL VALVE			13mm STAINLESS STEEL 316 BALL VALVE, FULL PORT, 800 WOG, FEMALE NPT THREADED PORTS ANSI B1.20.1, PTFE SEAL, LOCKING LEVER HANDLE.
HV-L218	PUMP ROOM	BALL VALVE			13mm STAINLESS STEEL 316 BALL VALVE, FULL PORT, 800 WOG, FEMALE NPT THREADED PORTS ANSI B1.20.1, PTFE SEAL, LOCKING LEVER HANDLE.
HV-L219	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L220	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L221	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L222	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L223	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	50mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L224	PUMP ROOM	BALL VALVE	NIBCO	MODEL D	19mm TRUE UNION CPVC BALL VALVE. FULL PORT. EPDM O-RINGS, PTFE SEAT. FEMALE NPT THREADED ENDS. ORANGE HANDLE. RATED 1724 kPa (250 PSI) AT 23°c. ASTM F1970, NSF/ANSI STANDARD 14.
HV-L225	PUMP ROOM	BACKFLOW PREVENTER	WATTS	SERIES LF007	19mm LEAD-FREE DOUBLE CHECK VALVE ASSEMBLY, CAST COPPER SILICON ALLOY BODY CONSTRUCTION, TOP MOUNTED BALL VALVE TEST COCKS,

A1 SIZE - 594mm x 841mm

DILLON CONSULTING LIMITED 1558 WILLSON PLACE, WINNIPEG, MANITOBA, R3T 0Y4, PHONE (204) 453-2301, FAX (204) 452-4412

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ENGINEERS GEOSCIENTISTS MANITOBA
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Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

RIVERBEND LIFT PUMPING STATION
2023 UPGRADES
MECHANICAL EQUIPMENT SCHEDULES

CITY DRAWING NUMBER	SHEET	REV.	SIZE
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