

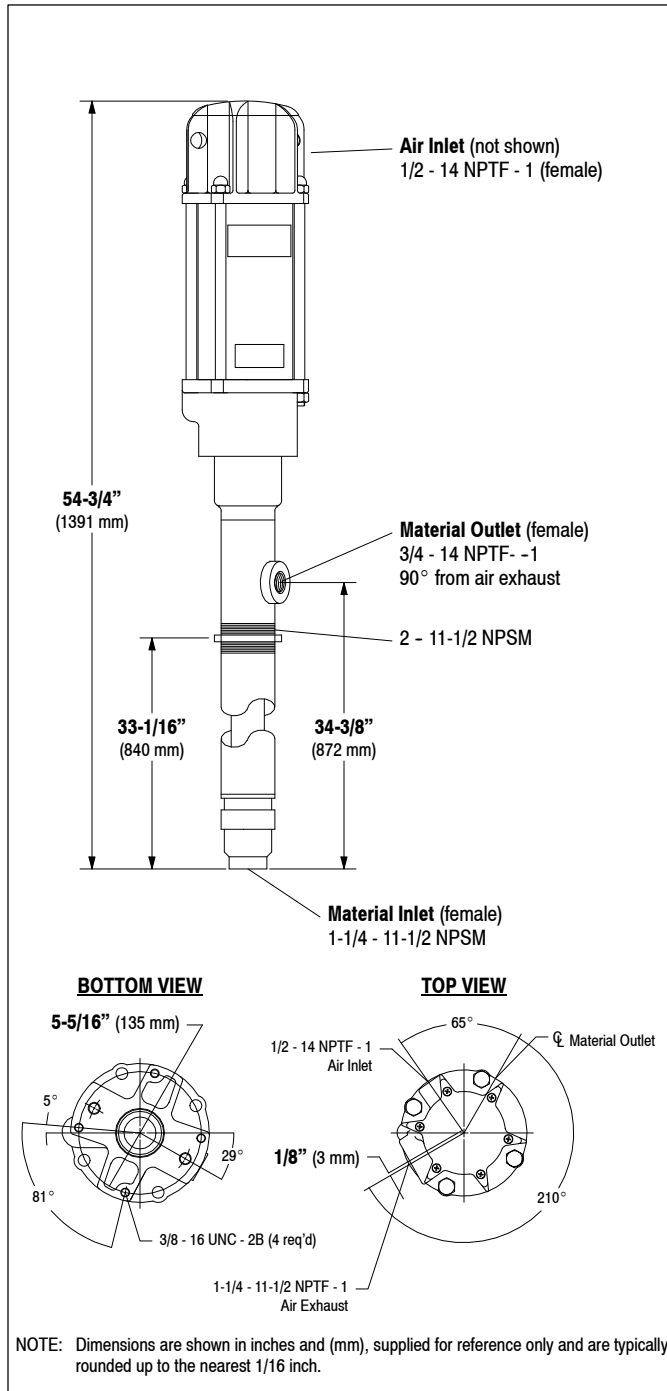
SALES & ENGINEERING DATA

650409-X TWO - BALL PUMP

RATIO SERIES:	9:1
FLUID PSIG RANGE:	0 - 1350

RELEASED: 11-6-98
REVISED: 10-16-15
(REV. E) S-965

DIMENSIONAL DATA



SPECIFICATIONS

CONSTRUCTION

Model Series (refer to option chart)	650409-X
Pump Type	Air Operated, Two - Ball, Double Acting Pump
Ratio	9:1
Air Motor	65444-B
Motor Repair Kit	61268
Motor Diameter	4-1/4" (107.9 mm)
Stroke	4" (101.6 mm)
Air Inlet (female)	1/2 - 14 NPTF - 1
Air Exhaust (female)	1-1/4 - 11-1/2 NPTF - 1
Lower Pump End Series	65106-X
Lower Pump Repair Kit	
model 650409	637010
model 650409-4	637010-4

Packing Options:

650409	PTFE (upper and lower)
650409-4	UHMW-PE (upper and lower)

Material Inlet (female)	1-1/4 - 11-1/2 NPSM
Material Outlet (female)	3/4 - 14 NPTF - 1

MATERIALS OF CONSTRUCTION

Outlet Body	316 Stainless Steel
Cylinder	316 Stainless Steel
Plunger	316 Stainless Steel
Upper Ball	316 Stainless Steel
Upper Seat	316 Stainless Steel
Lower Ball	316 Stainless Steel
Lower Seat	316 Stainless Steel
Inlet Body	316 Stainless Steel
Weight	45 lbs (20.4 kgs)

PERFORMANCE

Air Inlet Pressure Range	0 - 150 psig (0 - 10.3 bar)
Fluid Pressure Range	0 - 1350 psig (0 - 93.1 bar)
Maximum Rec'd Cycles / Minute	60
Displacement In ³ Per Cycle	11.0
Volume / Cycle	6.1 oz. (180.2 ml)
Cycles Per Gallon	21
Flow @ 60 Cycles / Minute	2.9 gpm (10.8 lpm)
Noise Level @ 60 psig - 40 cpm	80.0 dB(A) ^①

① Tested with 91790 muffler installed. The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (L_{Aeq}) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

ACCESSORIES:

66100 Wall Mount Bracket
91790 Silencer

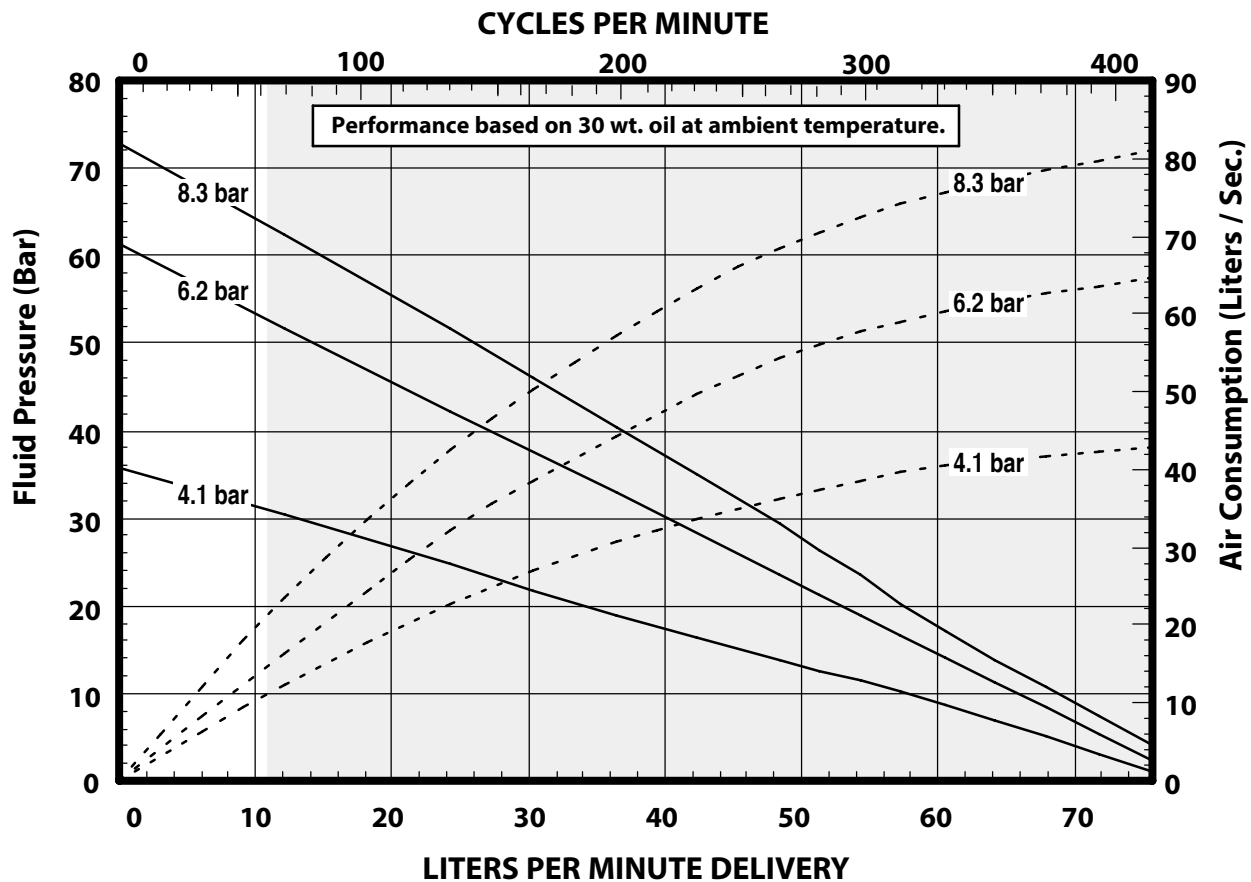
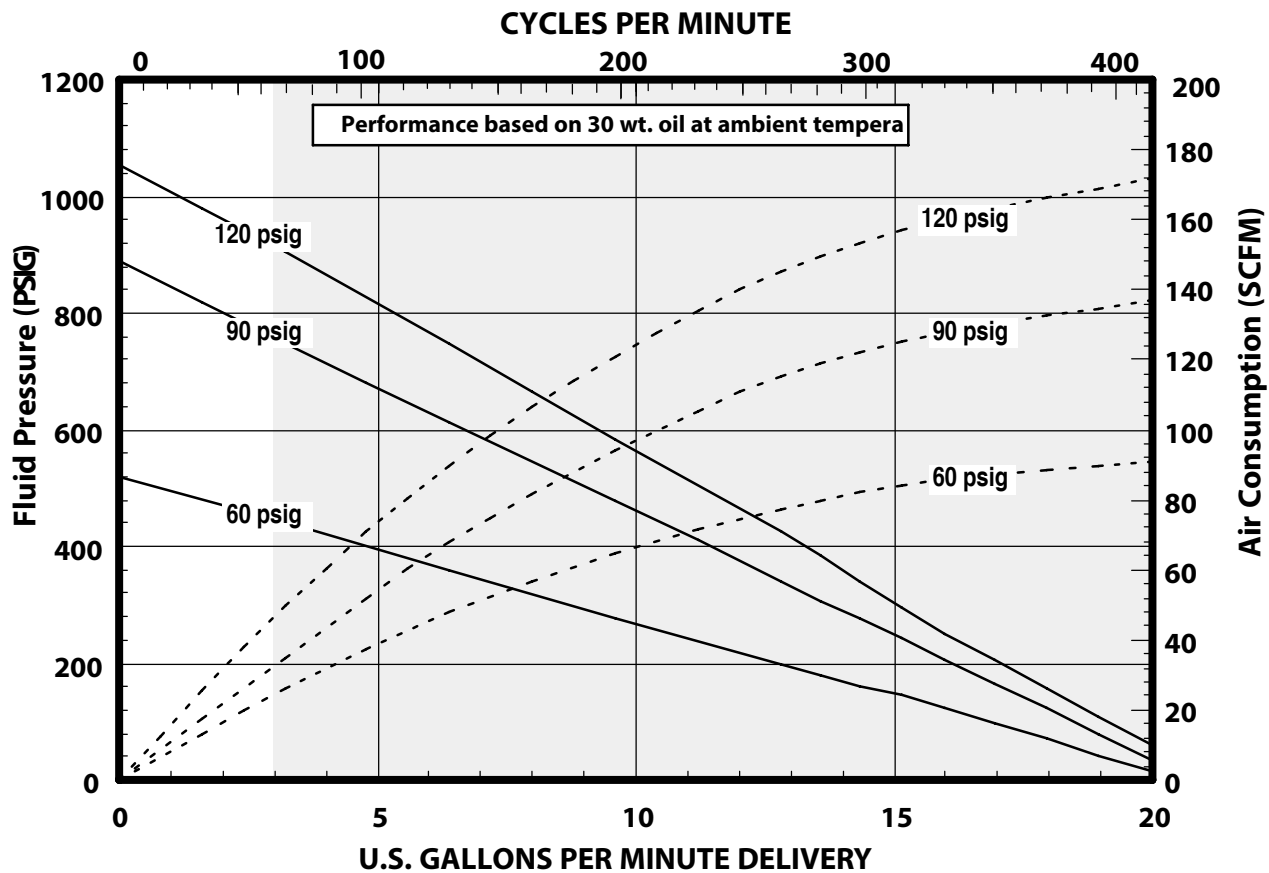
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NOTE: NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE