

SALES & ENGINEERING DATA

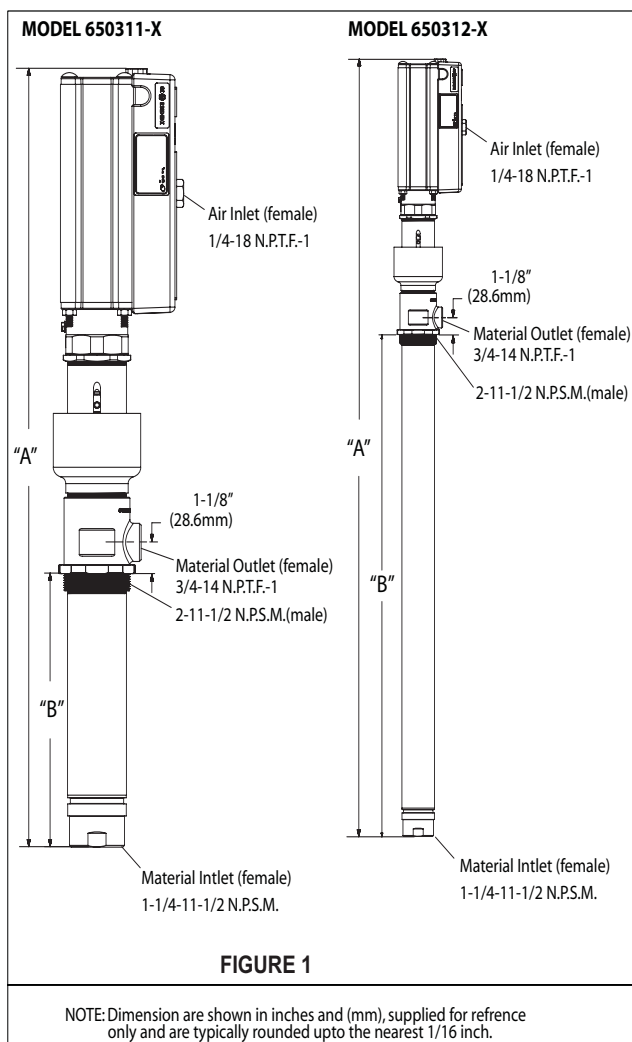
**RATIO
SERIES:** 2:1

650311-X & 650312-X TWO BALL PUMP

**FLUID P.S.I
RANGE:** 0 -343

RELEASED: 1-3-11
REVISED: 1-3-11
(REV. 01) S-1480

DIMENSIONAL DATA



MODEL	"A" (mm)	"B" (mm)	WEIGHT (kg)
650311-X	28.093" (714)	9.875" (251)	23 (10.4)
650312-X	51.437" (1306)	33.219" (846)	41 (18.6)

SPECIFICATIONS

Model Series (refer to option chart) 650311-X & 650312-X
Pump Type Air Operated, Two Ball, Stainless Steel Pump
Ratio 2:1
Air Motor 67400
Motor Repair Kit 637377
Motor Diameter 2" (5.08 cm)
Stroke 3" (7.62 cm)
Air Inlet (female) 1/4 - 18 N.P.T.F. - 1

Lower Pump End Series 637010-X

Lower Pump Repair Kit

650311-4/-6, 650312-4 637010-4
650311/650311-5, 650312 637010
650311-8 637010-6
650311-7/-9 637010-5

Material Inlet (female) 1-1/4 - 11-1/2 N.P.S.M

Material Outlet (female) 3/4 - 14 N.P.T.F. - 1

MATERIALS OF CONSTRUCTION

OutletBody 316 Stainless Steel
Cylinder

650311/ 650311-4/-8, 650312/650312-4 316 Stainless Steel
650311-5/-6/-7/-9 Ceramic Coated 316 St. St.

Plunger

650311/ 650311-4/-8, 650312/650312-4 316 Stainless Steel
650311-5/-6/-7/-9 Ceramic Coated 316 St. St.

Upper Packing

650311-4/-6, 650312-4 UHMW-PE
650311/650311-5, 650312 PTFE
650311-7/-8/-9 Viton

Lower Packing

650311-4/-6/-7/-9, 650312-4 UHMW-PE
650311/650311-5, 650312 PTFE
650311-8 PTFE

Upper Ball 316 Stainless Steel
Upper Seat 316 Stainless Steel
Lower Ball 316 Stainless Steel
Inlet Body 316 Stainless Steel

PUMP PERFORMANCE

Air Inlet Pressure Range 0 -150 p.s.i. (0- 10.3 bar)

Fluid Pressure Range 0 - 343 p.s.i. (0 - 23.6bar)

Maximum Rec'd Cycles / Minute 120

Maximum Working Flow Rate ... 4.26 g.p.m. (16.121 p.m)

Displacement / Cycle @ 100 p.s.i 8.2 in.³ (134.3 ml)

Volume / Cycle 4.5 oz. (134.3 ml)

Cycles Per Gallon 28

Noise Level @ 100p.s.i - 60cpm 80 db(A)①

① The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LAeq) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

Accessories Available

61113 Wall Mount Bracket
66073-1 AirLine Connection Kit

PERFORMANCE CURVES

