

Calculation of the air consumption

The air consumption per stroke is calculated in normal litres (NL)¹⁾ at a working pressure of 6 bar.

The entire consumption consists of a constant and a variable part that depends on the stroke.

SCHMIDT® PneumaticPress air consumption per stroke

At 6 bar in normal litres (NL)

Press Type	Constant	Variable (per mm Stroke) ⁴⁾	Air Connection ³⁾
20	= max. stroke / 50 mm x 1 NL	0.02 NL	G 1/4"
23	= max. stroke / 50 mm x 2.5 NL	0.05 NL	G 1/4"
24	= max. stroke / 50 mm x 2.5 NL	0.1 NL	G 1/4"
25	= max. stroke / 50 mm x 2.5 NL	0.15 NL	G 1/4"
27-1K	= max. stroke / 50 mm x 4 NL	0.08 NL	G 3/8"
27-2K	= max. stroke / 50 mm x 4 NL	0.16 NL	G 3/8"
27-3K	= max. stroke / 50 mm x 4 NL	0.24 NL	G 3/8"
29-1K	= max. stroke / 50 mm x 6.5 NL	0.13 NL	G 1/2"
29-2K	= max. stroke / 50 mm x 6.5 NL	0.26 NL	G 1/2"
29-3K	= max. stroke / 50 mm x 6.5 NL	0.39 NL	G 1/2"
29-4K	= max. stroke / 50 mm x 6.5 NL	0.52 NL	G 1/2"
320	= max. stroke / 50 mm x 1 NL	0.02 NL	G 1/4"
323-1K	= max. stroke / 50 mm x 2.5 NL	0.05 NL	G 1/4"3)
323-2K	= max. stroke / 50 mm x 2.5 NL	0.1 NL	G 1/4"3)
327-2K	= max. stroke / 50 mm x 4 NL	0.16 NL	G 1/2"3)
327-3K	= max. stroke / 50 mm x 4 NL	0.32 NL	G 1/2"3)
329-2K	= (max. stroke +25 mm) / 50 mm x 6.5 NL	0.26 NL	G 1/2"3)
329-3K	= (max. stroke +25 mm) / 50 mm x 6.5 NL	0.39 NL	G 1/2"3)
329-4K	= (max. stroke +25 mm) / 50 mm x 6.5 NL	0.52 NL	G 1/2"3)
32-12	1 NL	0.09 NL	G 1/4"
32-40	1.5 NL	0.045 NL	G 1/4"
32-60	2 NL	0.035 NL	G 1/4"
33-12	1 NL	0.09 NL	G 1/4"
33-40	1.5 NL	0.045 NL	G 1/4"
34-12	1.5 NL	0.12 NL	G 1/4"
34-40	2.2 NL	0.08 NL	G 1/4"
34-60	3 NL	0.06 NL	G 1/4"
36-12	4 NL	0.36 NL	G 3/8"
36-40	6 NL	0.2 NL	G 3/8"
36-60	8 NL	0.18 NL	G 3/8"

Total consumption = constant consumption (liter)²⁾ + variable consumption (liter)

Variable consumption = air consumption per mm of stroke (liter/mm)²⁾ X working stroke (mm)

SCHMIDT® HydroPneumaticPress air consumption per stroke

At 6 bar in normal litres (NL)

Press Type Standard	Rapid Stroke/Return Stroke (constant)	Power Stroke per mm (variabel)	Air Connection ³⁾
61-50-6 / 361-50-6	2 NL	1.25 NL	G 1/4"
61-100-12 / 361-100-12	4 NL	1.9 NL	G 1/4"
62-50-6 / 362-50-6	3 NL	1.85 NL	G 1/4"
62-100-12 / 362-100-12	6 NL	2.6 NL	G 1/4"
65-50-6 / 365-50-6	5 NL	2.1 NL	G 1/4"
65-100-12 / 365-100-12	10 NL	3.1 NL	G 1/4"
64-50-6 / 364-50-6	8 NL	4 NL	G 1/2"
64-100-12 / 364-100-12	16 NL	6 NL	G 1/2"
68-50-6 / 368-50-6	8 NL	3.2 NL	G 1/2"
68-100-12 / 368-100-12	16 NL	5.2 NL	G 1/2"
74-50-6 / 374-50-6	8 NL	4 NL	G 1/2"
74-100-12 / 374-100-12	16 NL	6 NL	G 1/2"
76-100-12 / 376-100-12	26 NL	10 NL	G 1/2"

Total consumption = constant consumption (liter)²⁾ + variable consumption (liter)

Variable consumption = air consumption per mm of stroke (liter/mm)²⁾ X working stroke (mm)

¹⁾ The air volume is measured under standard conditions (1.013 · 10⁵ pascal = 1 atm and a temperature of 25° Celsius [298 Kelvin])

²⁾ Value according to table ³⁾ For presses with force/stroke monitoring, the air connection refers to the two-channel control block used by us

⁴⁾ For the determination of the consumption, the single stroke is used, the return stroke is automatically contained in the result