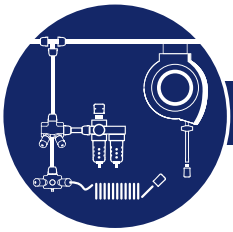
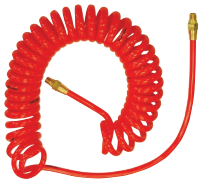
**TOPRING**
Compressed air solutions



# SELECTION GUIDE FOR SELF-STORING HOSES •S11•14•17•19






| | SERIES 11 MAXPRO | SERIES 14 MAXAIR | SERIES 17 FLEXCOIL | | SERIES 19 SPARKCOIL |
|---|---|---|---|---|---|
| Color | RED | BLUE | RED | BLUE | BLACK |
| Material | NYLON 12 | POLYURETHANE (ESTER-BASED) | POLYURETHANE (ETHER-BASE) | | POLYURETHANE ET TECHNOPOLYMER (ESTER-BASE) |
| Maximum Working Pressure | 200 PSI at 23 °C | 143 PSI at 23 °C | 140 PSI at 23 °C | | 143 PSI at 23 °C |
| Working Temperature | -40 to 80 °C | -20 to 70 °C | -40 to 70 °C | | -40 to 70 °C |
| Interior diameter (in) | 1/4 - 3/8 | 1/4 - 3/8 | 1/4 - 3/8 | | 1/4 |
| Total Length (ft) | 12.5 - 25 - 50 | 15 - 25 - 50 | 15 - 20 - 25 - 30 - 50 | | 25 |
| Working Length (ft) | 10 - 20 - 40 | 12 - 20 - 40 | 12- 16 - 20 - 24 - 40 | | 20 |
| Main Characteristics | • Superior memory<br>• Abrasion resistance | • Quality/price choice | • Flexibility<br>• Various dimensions | | • Sparks and hot chips resistance<br>• Oil resistance |
| Ergonomics | ★ | ★★ | ★★★ | | ★★★ |
| Flexibility | ★ | ★★ | ★★★ | | ★★★ |
| Service Life | ★★★★ | ★★★ | ★★★★ | | ★★★★ |
| Weight kg (1/4 x 25) | 0.27 | 0.45 | 0.44 | | 1.08 |

## SELF-STORING OFFERS SEVERAL ADVANTAGES

### Time and space saving

The hose is compact; it stretches easily to the required and regains its original shape when it retracts.

### Ergonomics

It improves working conditions because the hose does not obstruct the passage when not in use. The end tails of the polyurethane models are straight, making the hose less stressful for the wrists and models with swivel fittings allow maximum directional flexibility.



### Lightweight and flexible

- Lighter and more flexible than rubber hoses
- Easily stretches and retracts automatically

## TECH TIP

It is important to choose the proper interior hose diameter according to the airflow required for the application

(see the reference table on reverse side)

## ELEMENTS TO CONSIDER

### The working environment

First, ensure that the hose will withstand the environment in which it will be used. Some materials are more resistant to sparks, oil or moisture. The ether-based polyurethane will last longer in terms of weather and moisture resistance, while the ester-based polyurethane will provide better resistance to chemicals.
The working temperature will also have an impact on the pressure control and needs to be taken into consideration a the selection stage.

### Ergonomics

For applications requiring greater freedom of movement in a restricted work space, it is recommended to use flexible polyurethane hoses with straight ends.

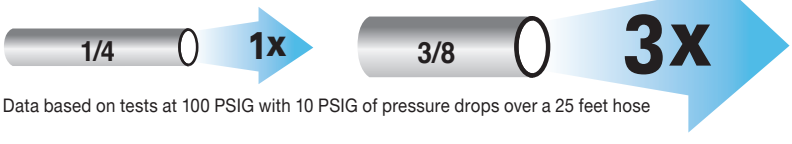
### Flexibility

A polyurethane hose is much more flexible than a nylon hose, hence more manageable for frequent users.

### Hose length

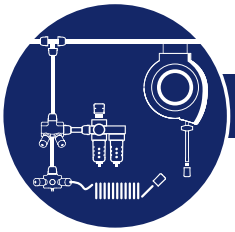
Unnecessary hose lenghts contribute to pressure drops and increases operating costs, thus selecting the proper hose legnth is for each application is recommended.

**3/8 I.D. air hose offers 3 times more flow than a 1/4. I.D.**




Data based on tests at 100 PSIG with 10 PSIG of pressure drops over a 25 feet hose

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# REFERENCE TABLE • INTERIOR DIAMETER REQUIRED BY PNEUMATIC TOOL TYPES

To choose the proper self-storing hose internal diameter, it is important to know the consumption of the tool used (flow SCFM).

Use of a smaller than recommended self-storing hose size will result in a serious reduction of tool performance.



| TOOL TYPES | FLOW SCFM | SELF-STORING HOSE HOSE LENGTH (ft) | | | | | |
|---|---|---|---|---|---|---|---|
| | | 12.5' | 15' | 20' | 25' | 30' | 50' |
| **NAILERS & STAPLERS** | | | | | | | |
| Nailer/stapler (18 Gauge) | 2.5 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| Stapler (22-18 Gauge) | 3.5 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| Finishing nailer | 3.5 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| Roofing nailer | 6.0 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| Framing nailer | 11.0 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| Industrial nailer | 25.0 | 3/8 | 3/8 | 3/8 | 3/8 | -- | -- |
| **IMPACT TOOLS** | | | | | | | |
| Miniature 1/4" ratchet | 12.5 | 5/16 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 |
| 1/4" impact gun | 14.0 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 | 3/8 |
| 3/8" ratchet | 19.2 | 3/8 | 3/8 | 3/8 | 3/8 | -- | -- |
| **POLISHING TOOL** | | | | | | | |
| Orbital polisher | 16.6 | 5/16 | 3/8 | 3/8 | 3/8 | 3/8 | -- |
| **SANDERS** | | | | | | | |
| Sander | 9.6 | 5/16 | 5/16 | 5/16 | 5/16 | 5/16 | 3/8 |
| 4-1/2" angle grinder | 18.4 | 3/8 | 3/8 | 3/8 | 3/8 | -- | -- |
| 10 mm belt sander | 18.9 | 3/8 | 3/8 | 3/8 | 3/8 | -- | -- |
| **DRILL** | | | | | | | |
| 3/8" air drill | 17.3 | 3/8 | 3/8 | 3/8 | 3/8 | -- | -- |
| **OTHER TOOLS** | | | | | | | |
| Riveter | 4.0 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| Grease gun | 8.0 | 5/16 | 5/16 | 5/16 | 5/16 | 5/16 | 5/16 |
| Caulking gun | 0.1 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| HVLP paint gun | 9.5 | 5/16 | 5/16 | 5/16 | 5/16 | 5/16 | 3/8 |
| Screw driver | 9.6 | 5/16 | 5/16 | 5/16 | 5/16 | 5/16 | 3/8 |
| Gravity fed sand blaster | 12.0 | 5/16 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 |

DATA BASED ON:
- Continuous consumption at 100 PSIG
- Average consumption (actual consumption may vary)
- New self-storing hoses and exempt of contaminants (water, rust, dust)
- A maximum of 5 PSIG pressure drops

| Self-Storing Hose I.D. in | SCFM available at 100 PSI | | | | | |
|---|---|---|---|---|---|---|
| | Self-storing hose lenght (ft) | | | | | |
| | 12.5' | 15' | 20' | 25' | 30' | 50' |
| 1/4 | ≤ 9.4 | ≤ 8.5 | ≤ 7.3 | ≤ 6.5 | ≤ 5.9 | ≤ 4.5 |
| 5/16 (8 mm) | ≤ 17.2 | ≤ 15.6 | ≤ 13.4 | ≤ 11.8 | ≤ 10.7 | ≤ 8.1 |
| 3/8 | ≤ 28.2 | ≤ 25.6 | ≤ 21.9 | ≤ 19.4 | ≤ 17.6 | ≤ 13.3 |