# **QUICK COUPLERS SELECTION GUIDE • \$20 TO \$31**



						INDUSTRIAL U			ULTRAFLO	MEGAFLO	ARO 210	TRUFLATE			LINCOLN	NITTO	STÄUBLI		
	MODEL	SAFE DISCONNECTION	CONNECTION	MATERIAL	U 1/4	1/M 1/4	1/M 3/8	1/M 1/2	E 7.8	E 10.4	A 1/4	T 1/4	T 3/8	T 1/2	L 1/4	N 7.8	S 1/4	S 3/8	S 3/4
	TOPQUIK S1		Automatic	Composite Stainless Steel S22	\$ 20	34 SCFM 174 PSI	81 SCFM 174 PSI	\$ 22 148 SCFM 174 PSI 148 SCFM 232 PSI	73 SCFM 174 PSI	81 SCFM 174 PSI	32 SCFM 174 PSI	34 SCFM 174 PSI	81 SCFM 174 PSI	\$ 25 120 SCFM 174 PSI	<b>S 26</b>	\$ 27	\$ 30	\$ 30	\$ 30
	TOPQUIK SC		Manuelle	Steel		38 SCFM 360 PSI	75 SCFM 360 PSI	175 SCFM 360 PSI	70 SCFM 360 PSI		38 SCFM 360 PSI								175 SCFM 360 PSI
TOPRING	TOPQUIK		Automatic	Composite		36 SCFM 225 PSI	73 SCFM 232 PSI	167 SCFM 174 PSI	59 SCFM 174 PSI							78 SCFM 175 PSI			
	QUIKSILVER		Automatic	Steel		44 SCFM 362 PSI	72 SCFM 435 PSI	145 SCFM 500 PSI	80 SCFM 362 PSI		44 SCFM 362 PSI								
Tommed	QUIKSILVER 2		Automatic	Steel		44 SCFM 362 PSI			80 SCFM 362 PSI		44 SCFM 362 PSI								
	AUTOMAX		Automatic	Brass		37 SCFM 250 PSI	62 SCFM 300 PSI	99 SCFM 300 PSI	50 SCFM 200 PSI		34 SCFM 250 PSI				32 SCFM 250 PSI				
	AUTOMAX SLIM		Automatic	Brass		45 SCFM 150 PSI			60 SCFM 150 PSI										
	MAXQUIK		Manual	Steel		24 SCFM 250 PSI	56 SCFM 250 PSI	75 SCFM 250 PSI			28 SCFM 250 PSI	24 SCFM 250 PSI	67 SCFM 250 PSI	92 SCFM 250 PSI					
	MAXQUIK PLUS		Manual	Brass Stainless		37 SCFM 250 PSI													
	UNISAFE 5 IN 1 Compatible plugs \$20•31•23•24•26		Automatic	Steel	34 SCFM 200 PSI														
	UNIQUIK 3 IN 1 Compatible plugs \$20•23•24		Automatic	Brass Nickel Plated Brass	35 SCFM 150 PSI														
	UNIMAX 5 IN 1 Compatible plugs \$20•31•23•24•26		Automatic	Steel	37 SCFM 200 PSI														
DNISAOT	ISOSAFE		Automatic	Aluminum													45 SCFM 175 PSI	100 SCFM 145 PSI	

# TOPRING Compressed air solutions

# **HOW TO CHOOSE THE IDEAL QUICK COUPLER?**

# Points to consider in order to choose the quick coupler for the application

#### **ACCIDENT PREVENTION**

#### PREVENTING DANGEROUS HOSE WHIPS



#### ZERO PRESSURE DISCONNECT COUPLERS

These couplers prevent dangerous hose whips with their two-stage disconnection system. The first stage allows the downstream pressure to be evacuated, while the second releases the plug completely and safely.

The possibility of a hose whip is therefore eliminated.



TOPQUIK S1



TOPQUIK



**ISOSAFE** 

#### ZERO PRESSURE CONNECT/DISCONNECT COUPLERS

These couplers allow connection and disconnection at zero pressure making it very easy to connect/disconnect. The plug is connected and secured before the air supply is released, providing a safe and easy connection.

Upon disconnection, the downstream pressure is released before the plug can be disconnected, thus eliminating the possibility of hose whips..



UNISAFE



**TOPQUIK SC** 

#### **COUPLERS WITH DRAG GUARDS**

These couplers have an integrated drag guard preventing accidental disconnections when they are dragged on the floor.

The drag guard protects the coupler sleeve from releasing the plug under pressure.



# PRESSURE AND FLOW REQUIREMENTS FOR THE APPLICATION (PSI & SCFM)

Air tools operate at variable air flow rates and pressures (specified by the manufacturers).

Quick coupler can be selected once the required SCFM is determined. The table on the first page summarizes the technical specifications of all **TOPRING** couplers.

Note that the inside diameter of the air hose used can be matched to the size of the coupler (e.g. 1/4 I.D. hose, 1/4 coupler). However, pressure and air volume restrictions such as a 1/2 I.D. hose with a 1/4 coupler must be avoided.

Finally, the maximum operating pressure of the selected connection must be equal to or greater than the maximum pressure of the compressed air system.

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#### **MISE EN GARDE**

Over-pressurization could result in a sudden failure of the coupler causing severe bodily injury or death.

Be sure to select the proper coupler for your application and use only within the specified service pressure range.

#### **TECH TIP**

Consult the flow rate reference table for air tools in the S70 to 78 series (air hoses)

TOOL TYPE	FLOW SCFM		HOSE LENGTH							
		28'	39'	50'	75"	100"	150"			
NAALERS/STAPLERS										
NationStapler (18 Gospe)	2.5	14	14	194	114	114	1/4			
Stapler (22-18 Goupe)	3.5	14	198	- 98	194	114	1/4			
Finishing railer	3.5	14	14	194	114	114	1/4			
Rooting natur	6.0	3.8	3.8	3/8	3/8	3.8				
Framing nation	91.0	3.6	3.8	3/5	3/6	3/8				
Indestrial Saler	21.0	3.8								
INPACT TOOLS										
Ministry 14" stoket	12.5	3.8	3.8	3/8						
14'input pur	14.0	3.9	3.9	2/8		1.0				
3/E'ntoki	19.2	3.6								
Zean	21.9			102	1/2					
12'imped gun	28.6			10						
34 input on	34.7		12							
Timpetgen	87.5				1	- 1	- 1			
POLISHING TOOLS										
Orbital polisher	16.6	3.9	3.9							
Dicitating sunder	21.0			102	1/2					
SANDERS							_			
Sonder	3.0			26	36	3/8				
417 angle grinder	18.4	3.8		102						
10 mm beit sunder	18.9	3.0		10		10				
Tangle sonder	216			1/2						
DRILLS										
25,9500	103	3.8	12	1/2		1.0	1/2			
33' mersibical drill	21.8	12								
12' revesible air drill	26.4		52	1/2						
OTHER TOOLS										
Rinder	40	14	114	198		5/16	576			
Greese gun	8.0	576	5/16	5/16	3/5	3.8	3/8			
Caulking gun	61	14	98	98	94	114	1/4			
HVLP selet our	55	515		3/5	3/5	3/8				
Sowative	5.6		516	3/8	3/8	3.8				
Gravity Rid sand blanter	17.6	3.6	5.5	5.5	1/2	1/2				

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# **TOPRING**

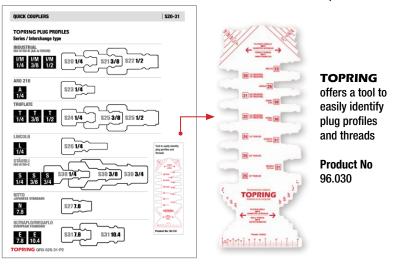
Compressed air solutions

#### **PLUG PROFILE USED**

The plug profile determines the type of coupler to be used. The opening of the plug determines the quantity of air (SCFM). The ULTRAFLO S31 plug has an opening of 7.8 mm and offers flow rates from 50 to 80 SCFM.

Most couplers are associated with a single plug profile except for the «Universal» type coupler that accepts 3 to 5 plug profiles (see below examples of UNIVERSAL couplers).





# FREQUENCY OF CONNECTION/DISCONNECTION

#### **AUTOMATIC OR MANUAL COUPLERS?**

If the coupler must be disconnected several times a day, the automatic coupler is a better option. The connection is made by inserting the plug into the coupler without having to activate the sliding sleeve manually (but must be activated for disconnection). To use the manual coupling, the sleeve must be manually retracted to connect or disconnect the plug.



#### **CONDITIONS OF USE**

Steel couplers offer greater resistance to harsh environments. They are also more resistant to applications where there are frequent impacts and high operating pressures.

Environmental conditions including moisture, water, chemicals and air pollutants can also cause premature deterioration of the couplers. For this type of environment, a stainless steel coupler is preferred.



#### **FLUIDS AND TEMPERATURES**



The material of the coupler body and seal must be compatible with the fluids present and the operating temperature. The limits of the coupler must never be exceeded in order to increase their service life.

#### **DELICATE SURFACES TO PROTECT**

In specific industries and applications, the risk of scratches on finished products is not acceptable (car body, furniture manufacturing, etc.).

Composite couplers protect delicate surfaces against scratches effectively.







**TOPQUIK SC** 

### **ERGONOMICS FOR THE USER**

**TOPQUIK** couplers are very light compared to metal couplers offering better ergonomics for the user.











Free-angle fittings also offer improved tool handling and help reduce fatigue at the wrist.

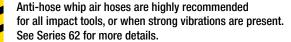
See Series 62 for more details.

### PRECAUTION TO EXTEND **COUPLER'S LIFE**

Using a short anti-hose whip between the tool and the coupler will isolate the vibration on the coupler and extend its life while reducing the hazard of whipping.



#### **CAUTION**





# 1/4 INDUSTRIAL QUICK COUPLERS **DEMO KIT**

Product No 95.201



DISTRIBUTE	ea b