

*Fabrication and Maintenance*  
*PRO Range*

Atlas Copco







EDGE  
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# How to use our tools safely

## Safety tips

Below are few tips to increase power tool safety and help avoid injury and accidents. These tips, however, are no substitute for the PRO tools safety and instruction manuals.



### Conduct a visual inspection of the tool before use

Check the tool, including hoses or fittings, for signs of damage and replace defect parts if necessary. Check for cracks in the sockets, grinding wheels, chisels, etc., and replace damaged parts if required.



### Wear safety gear

Always use appropriate safety equipment, such as goggles and earplugs. When required, wear gloves, apron and helmet. When working with materials that produce airborne particles, be sure to wear a dust mask or similar protective gear and use other equipment, such as dust extractors, to control exposure to harmful substances.



### Check the free speed of the tool

Make sure the measured speed at a pressure of 6.3 bar does not exceed the rated speed of the tool. Before checking the measured speed, always remove wheels, burrs, sockets, etc.



### Before grinding, test the tool

Test run the grinder in a protected area before starting work and after changing the wheel. Make sure that the space around is free from other people.



### Use the right accessories

Always use the accessories recommended in the safety manual. Never use hand sockets with impact or ratchet wrenches. Never use a grinding wheel, burr, cone wheel, etc., marked with a speed lower than the speed of the grinder. Always disconnect the air tool before changing accessories.



### Maintain a safe work area

Keep other people at a safe distance away from your workspace while you use the tools. Beware of hoses on the walking or work surface. Always direct exhaust air away from yourself and others. Never use an air tool in explosive atmospheres. Stay away from electric wiring because an air tool is not insulated for contact with electrical power sources.



### After work

Always disconnect your air tool after use.

## Our tools come with a manual

Safe hand tool operation is a fundamental tenet of PRO tool design. All of our tools have features that safeguard operators against work-related injuries and machine-related hazards. But the best way to ensure hand tool safety is to ensure that operators use the recommended safety practices.

That is why each PRO tool comes with a safety and instruction manual that operators should read and follow when using our tools. For a copy of these manuals, contact your Atlas Copco representative or visit [www.atlascopco.com](http://www.atlascopco.com).

### For more information on safe power tool operation, please refer to the rules for tool safety from these two organizations:

Safety Code for Portable Air Tools, ANSI B186.1  
American National Standards Institute (ANSI)  
11 W. 42nd St, 13th floor, New York, NY 10036.

### Further occupational health & safety information, see web sites:

<http://www.osha.gov> (USA)  
<http://europe.osha.eu.int> (Europe)



# Tools for professionals

**Some years ago**, we took the high quality die-cast molds used to manufacture industrial tools for production lines and produced the PRO range of hand-held tools for light industry users.

The tools were an immediate success and we continuously expanded the range with tools that demanding industrial users need to get the job done.

## Features and benefits

- Design** Attractive, comfortable to hold and ergonomic.
- Robust** Sturdy material, solid design, excellent performer. PRO keeps on working and gets results.
- Quality** PRO comes with a long list of great features.
- Power** The work gets done in record time. It's easy to handle tough jobs with PRO.
- Warranty** The assurance of quality and performance is a generous warranty.

**Find more information regarding spare parts, service, dimensional drawings, sustainable productivity and general recommendations:**

[www.atlascopco.com](http://www.atlascopco.com)

# Impact Wrenches







## Low weight – High output

- Models with twin hammer impact mechanism for fast run down
- Models with composite housing for best power-to-weight ratio and with durable aluminum and magnesium housing
- Button controlled forward/reverse settings
- Easy one hand operation for pistol grip models
- Ergonomic handles with rubber grip

# Impact Wrenches

## W29-series



W2915

With easy operation the W29-series are your perfect partner for general assembly and tackling the toughest industrial jobs that requires high torque output.

These models features a twin hammer impact mechanism for fast run down with a composite housing for best power-to-weight ratio with four torque settings.

Easy one hand operation (Left or right handed) with button controlled torque setting (forward/reverse) with a ergonomic handle with anti-slip rubber grip.



W2910



W2911



W2920

Model	Bolt size mm	Square drive size in	Torque - Forward Nm	Torque - Reverse Nm	Torque Range Nm	Free speed r/min	Weight kg	Air consumption l/s	Rec. hose size mm	Air inlet thread BSP	Model type	Impact mechanism	Ordering No.
W2910	M14	3/8"	310	500	150-400	6500	1.2	17	10	1/4"	Pistol	Twin hammer	8434124850
W2911	M14	1/2"	370	500	150-400	7300	1.2	17	10	1/4"	Pistol	Twin hammer	8434124851
W2915	M16	1/2"	710	1000	200-800	7700	2.0	18	10	1/4"	Pistol	Twin hammer	8434124852
W2920	M30	3/4"	1400	1500	300-1450	5500	3.2	27	13	3/8"	Pistol	Twin hammer	8434124853

Torque range (min/max) is a calculated value acc. To Skidmore. Performance is depending on air installation and type of bolted joint.



# Impact Wrenches

## W24-series

These tools features a steel, aluminum and magnesium housing and can handle tough environments providing fast rundown and tightening.

They have powerful impact mechanisms for fast run down with four torque settings.

The W24-series features compact pistol to larger straight models for many different applications.



W2415



W2410



W2411



W2412



W2427



W2420



W2425



W2428

Model	Bolt size mm	Square drive size in	Torque - Forward Nm	Torque - Reverse Nm	Torque Range Nm	Free speed r/min	Weight kg	Air consumption l/s	Rec. hose size mm	Air inlet thread BSP	Model type	Impact mechanism	Ordering No.
W2410	M10	1/4" HEX	98	110	13 - 80	7000	1	11	10	1/4"	Pistol	Twin hammer	8434124854
W2411	M10	3/8"	130	140	13 - 110	7000	1	11	10	1/4"	Pistol	Twin hammer	8434124855
W2412	M16	1/2"	250	350	100 - 300	7400	1.4	13	10	1/4"	Pistol	Twin hammer	8434124862
W2415	M16	1/2"	550	750	150 - 650	7700	2.7	20	10	1/4"	Pistol	Pin clutch	8434124856
W2420	M30	3/4"	1450	1700	650 - 1300	5600	5.4	26	13	3/8"	Pistol	Twin hammer	8434124857
W2425	M33	1"	2200	2550	700 - 1400	4500	10.2	44	19	1/2"	Pistol	Pinless	8434124858
W2427	M33	1"	1800	2200	700 - 1500	4500	6.7	36	19	1/2"	Straight	Twin hammer	8434124859
W2428	M33	1"	2200	2800	800 - 1600	5000	10.5	48	19	1/2"	Straight	Pinless	8434124860
W2415 KIT: Incl. 5 sockets. Sizes: 13, 15, 17, 19 & 24 mm.													8434124861

Torque range (min/max) is a calculated value acc. To Skidmore. Performance is depending on air installation and type of bolted joint.

# Ratchet Wrenches







## Compact **and powerful!**

- Great power-to-weight ratio
- Robust composite housing
- Rubber grip on handle for insulation and comfort
- Easy switch between forward and reverse
- 360 degree adjustable air exhaust

# Ratchet Wrenches

## W26-series

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PRO ratchet wrenches are powerful, reversible and designed for easy access in confined spaces.

The tools are light, comfortable and easy to work with, due to their robust composite housing and high power-to-weight ratios.



W2620 / W2621



# Ratchet Wrenches



W2610 / W2611



W2630 / W2631

Model	Bolt size mm	Square drive size in	Torque range Nm	Free speed r/min	Weight kg	Length mm	Air con- sumption l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
W2611	M8	1/4"	4-40	280	0.55	192	9	10	1/4"	8431 0350 11
W2610	M8	3/8"	4-40	280	0.55	192	9	10	1/4"	8431 0350 10
W2621	M12	3/8"	5-68	170	1.1	271	10	10	1/4"	8431 0350 21
W2620	M12	1/2"	5-68	170	1.1	271	10	10	1/4"	8431 0350 20
W2631	M14	3/8"	25-80	200	1.2	307	11	10	1/4"	8431 0350 31
W2630	M14	1/2"	25-80	200	1.2	307	11	10	1/4"	8431 0350 30

Torque range (min/max) is a calculated value acc. To Skidmore. Performance is depending on air installation and type of bolted joint.

# Screwdrivers





# Speed and precision!

- Slip-clutch for torque control. Once the desired torque is reached the coupling slips
- Well balanced and ergonomic
- Soft-start trigger for smooth operation
- 360 degree adjustable air exhaust
- Silent



## Selection guide

	Machine screw 4.8	Machine screw 8.8	Thread forming screw-M	Thread forming screw-ST	Thread forming screw-ST plastic	Self drilling screw-S	Wood screw
Impact clutch	◇	◇	◇			◇	◇
Direct drive	◇	◇	◇	◇		◇	◇
Slip clutch	◇	◇	◇	◇	◇	◇	◇
Shut-off clutch	◇	◇	◇	◇		◇	

◇ Recommended

◇ Usable

# Screwdrivers

## Direct Drive Screwdrivers

**Direct Drive** Screwdrivers are suitable for self-drilling and wood screws. The tools are well balanced and quiet. A soft-start trigger ensures smooth operation and the air exhaust is adjustable through 360 degrees.

**Impact Drive** Screwdrivers are lightweight tools offering a productive blend of operator comfort and exceptional performance. There are two models – both are reversible with a simple flip-off lever on the side of the tool handle.



S2305



S2480

Model	Bolt size mm	Quick change chuck in	Torque range Nm	Free speed r/min	Weight kg	Length mm	Air cons. l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
<b>Impact drive</b>										
S2480	M5	1/4"	6-13	6500	0.8	132	10	10	1/4"	8431 0257 90
S2481	M6	1/4"	11-20	5000	0.9	143	8	10	1/4"	8431 0257 92
<b>Direct drive</b>										
S2305	M8	1/4"	0-12	750	0.9	198	5.6	8	1/4"	8431 0257 28
S2326	M6	1/4"	0-4.5	2400	0.8	178	5.6	8	1/4"	8431 0257 36



## Shut-off Screwdrivers

**Shut-off** Screwdrivers offer impressively high torque accuracy. Our fast shut-off models deliver smooth performance and high quality tightening.

**Slip-Clutch** Screwdrivers provide an implied pulsating force, or slip, once you reach the desired torque.

Both versions feature adjustable torque settings, trigger and push start for pistol grips, and lever and push start for straight models.



S2308-C / S2309-C / S2310-C



S2450-P / S2451-P / S2452-P



S2340-C / S2360-C / S2370-C

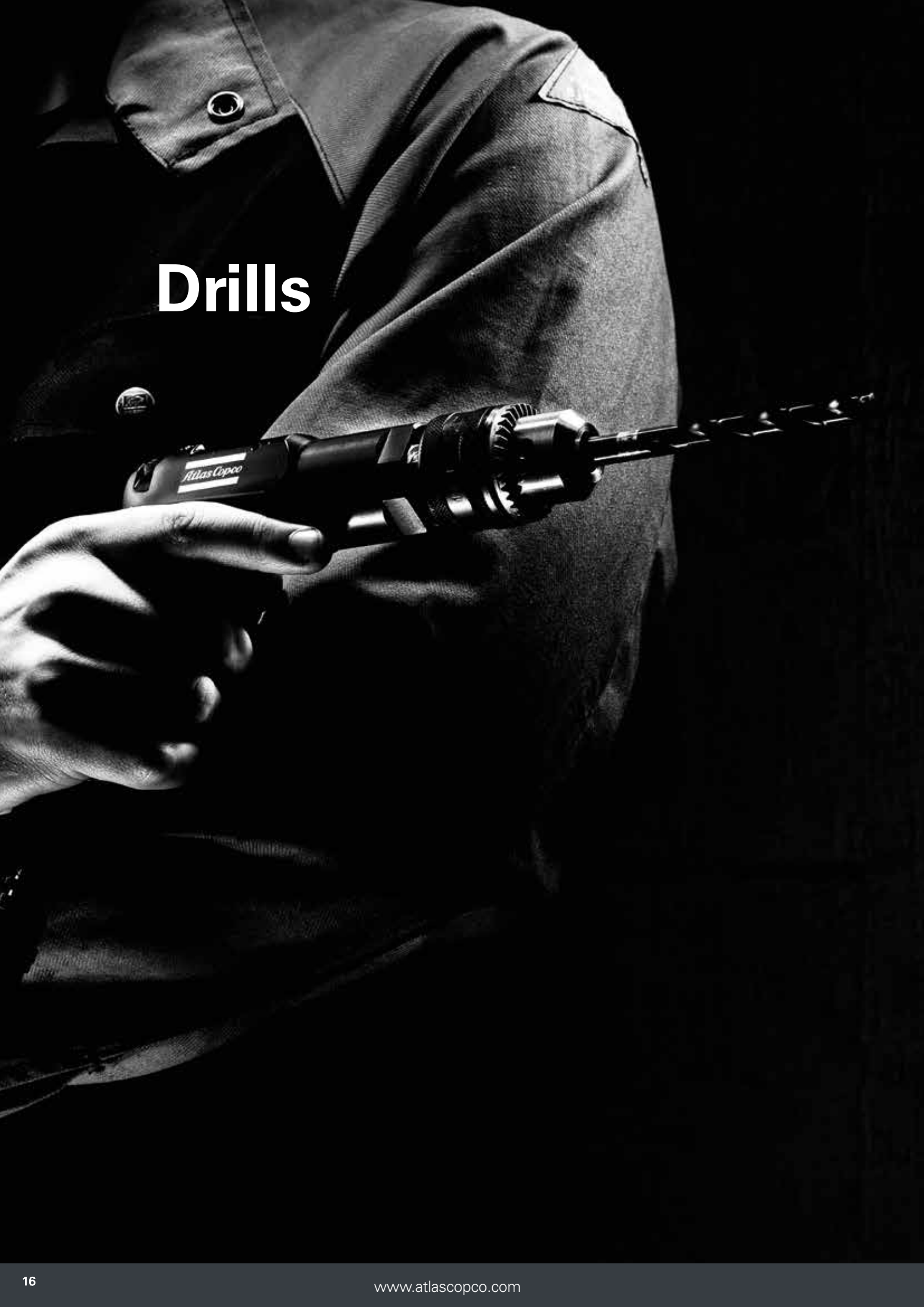


S2416-L / S2426-L / S2428-L

Model	Screw capacity mm	Quick change chuck in	Torque range Nm	Free speed r/min	Weight kg	Length mm	Air cons. at free speed l/s	Rec. hose size mm	Air inlet thread BSP	Starting method			Ordering No.
										Push	Push and trigger/lever	Trigger/lever	
<b>Slip clutch</b>													
S2308-C	M6	1/4"	2.5-11	950	1.1	225	8.4	10.0	1/4"	-	●	-	8431 0257 20
S2309-C	M5	1/4"	1.5-7.5	1200	1.0	245	7.0	8.0	1/4"	-	●	-	8431 0257 22
S2310-C	M5-8	1/4"	2-15	800	1.1	225	8.5	10.0	1/4"	-	●	-	8431 0257 24
S2307-CE	M6	1/4"	2.5-10	900	1.2	245	8.4	10.0	1/4"	-	-	●	8431 0257 26
S2340-C	M3	1/4"	0.5-2	1300	0.9	250	4.0	6.3	1/4"	-	●	-	8431 0257 40
S2360-C	M4-5	1/4"	1.3-7	700	0.9	260	4.0	6.3	1/4"	-	●	-	8431 0257 60
S2370-C	M5	1/4"	2-6	1300	0.9	250	4.0	6.3	1/4"	-	●	-	8431 0257 70
<b>Shut off</b>													
S2426-L	M4	1/4"	1.2-2.6	1500	0.9	230	6.0	8.0	1/4"	-	●	-	8431 0257 80
S2428-L	M4-5	1/4"	3.5-7	700	1.0	242	6.0	8.0	1/4"	●	-	-	8431 0257 81
S2416-L	M3	1/4"	0.5-1.6	1500	0.9	230	6.0	8.0	1/4"	-	●	-	8431 0257 82
S2450-P	M5	1/4"	2.4-5	1100	1.1	225	6.0	8.0	1/4"	-	-	●	8431 0257 84
S2451-P	M5	1/4"	3.5-7.5	800	1.1	250	7.0	8.0	1/4"	-	●	-	8431 0257 86
S2452-P	M6	1/4"	3.5-12	580	1.1	250	7.0	8.0	1/4"	-	●	-	8431 0257 87

S2307-CE external adjustable clutch

# Drills



# Superior hole quality!

- Well balanced and ergonomic
- High spindle accuracy
- Soft-start throttle
- Silent
- Air exhaust through handle
- Oil-free
- Available with key or quick chuck



## Selection guide

Model	r/min		Mild steel 20–30 m/min	Alloy steel 5–15 m/min	Cast iron 15–20 m/min	Aluminum & bronze 50–80 m/min	Wood and board 80–150 m/min	Composite 50–100 m/min
D2112	5,400	Drill dim. / mm	1.0–2.0	-	-	2.5–5.0	4.0–8.0 <sup>a</sup>	1.0–5.0
D2116/D2160	2,400		2.5–6.0	1.0–3.0	2.0–4.0	8.0–13.0 <sup>a</sup>	8.0–13.0 <sup>a</sup>	-
D2163	2,000		2.5–6.0	1.0–3.0	2.0–4.0	8.0–13.0 <sup>a</sup>	8.0–13.0 <sup>a</sup>	-
D2121	750		8.0–13.0	3.0–8.0	7.0–13.0	-	-	-
D2148-R	750		8.0–13.0	3.0–8.0	7.0–13.0	-	-	-

a) Drill size larger than standard chuck capacity.



# Drills



D2121/D2121Q

## D21-Series

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**PRO** drills are all-metal and designed with operator comfort in mind. They come in three different versions, pistol grip, straight grip and angle grip.

They are available with key chuck or quick change chuck.



D2112/D2116



D2163



D2112Q/D2116Q



D2160Q

Model	Max free speed r/min	Max output kw	Chuck capacity mm	Weight kg	Air cons. at max output l/s	Rec. hose size mm	Air inlet thread BSP	Drill type handle				Chuck type		Ordering No.
								Pistol	Straight	Angle	Reversible	Key	Quick	
D2112	5400	350	0-6.5	1	10	10	1/4"	●	-	-	-	●	-	8421 0405 05
D2112Q	5400	350	1.5-10	1	10	10	1/4"	●	-	-	●	-	●	8421 0405 10
D2116	2400	350	1.5-10	1	10	10	1/4"	●	-	-	-	●	-	8421 0405 13
D2116Q	2400	350	1.5-10	1	10	10	1/4"	●	-	-	-	-	●	8421 0405 15
D2116-R	2400	350	1.5-10	1	10	10	1/4"	●	-	-	●	●	-	8421 0405 16
D2116-RQ	2400	350	1.5-10	1	10	10	1/4"	●	-	-	●	-	●	8421 0405 17
D2121	750	350	2-13	1.4	10	10	1/4"	●	-	-	-	●	-	8421 0405 21
D2121Q	750	350	1.5-13	1.4	10	10	1/4"	●	-	-	-	-	●	8421 0405 25
D2148-R	750	250	2-13	1.5	10	10	1/4"	●	-	-	●	●	-	8421 0407 03
D2148-RQ	750	250	1.5-13	1.5	10	10	1/4"	●	-	-	●	-	●	8421 0407 05
D2160	2400	460	1.5-10	0.9	11	10	1/4"	-	●	-	-	●	-	8421 0410 16
D2160-Q	2400	460	1.5-10	0.9	11	10	1/4"	-	●	-	-	-	●	8421 0410 20
D2163	2000	330	1.5-10	1.1	9	10	1/4"	-	-	●	-	●	-	8421 0410 08
D2163-Q	2000	330	1.5-10	1.1	9	10	1/4"	-	-	●	-	-	●	8421 0410 15

## Accessories

	Ordering No.
1-6.5 mm chuck capacity (standard with D2112)	4021 0444 00
1.5-10 mm chuck capacity (standard with D2116, D2163)	4021 0446 00
2-13 mm chuck capacity (standard with D2121, D2148-R)	4021 0447 00
1-10 mm keyless chuck (standard with D2112Q, D2116Q)	4021 0497 00
1.5-13 mm keyless chuck (standard with D2121Q, D2148-RQ)	4021 0496 00
Quick-change chuck for 1/4" bits mount 3/8"-24 UNF	4021 0443 00
Exhaust air hose ( D2112, D2116, D2121)	4210 2053 00
Exhaust air hose (2148-R)	4210 2929 00
Exhaust air hose (D2163, D2163)	4150 1077 80
Support handle (D2163)	4110 1355 85
Support handle (D2160)	4110 1355 81

## Productivity Kit

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For drills and nutrunners with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-C13-1/4"	21 l/s	Cablar 13 mm	ErgoQIC 10	Yes	8202 0850 11



# Angle and Vertical Grinders







## Increase **your productivity**

- Speed governor for optimal process speed and highest productivity
- Great power-to-weight ratio
- Rubber grip for insulation and comfort
- Safety lever to avoid unintentional starts
- Adjustable wheel guard

# Angle and Vertical Grinders



G2408-125

## G24/25-series

**PRO** grinders are a popular choice for surface preparation in general industry. They are lightweight tools that deliver all the power you need, yet easy to handle.

For additional comfort they are equipped with a rubber handle grip and adjustable wheel guard. All grinders except the **G2408**-series are equipped with a speed governor to ensure the grinding wheel operates at optimum speed.

The vertical grinders are suitable for rough grinding and cutting off operations on open surfaces.



G2511



G2588



G2415

Model	Max free speed r/min	Max output kW	Max wheel dia mm	Spindle thread	Spindle length mm	Weight kg	Height over spindle mm	Air cons. at max output l/s	Air cons. at free speed l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
G2408-100	12000	0.35	100	UNF 3/8"	17	0.9	61	9	13	10	1/4"	8423 0314 60
G2408-115	12000	0.35	115	UNF 3/8"	17	0.9	61	9	13	10	1/4"	8423 0314 78
G2408-125	12000	0.35	125	UNF 3/8"	17	0.9	61	9	13	10	1/4"	8423 0314 80
G2511-125	12000	0.9	125	M14	18	1.8	61	20	17	13	3/8"	8423 0317 00
G2511-115	12000	0.9	115	M14	18	1.8	61	20	17	13	3/8"	8423 0317 01
G2511-100	13300	0.9	100	UNF 3/8"	17	1.8	61	20	17	13	3/8"	8423 0317 02
G2588-230-M14	6600	1.7	230	M14	17	2.4	91.5	32	17	16	1/2"	8423 0132 82
G2588	7200	1.7	180	M14	17	2.4	91.5	32	17	16	1/2"	8424 0132 87
G2588-180-M14	8500	1.7	180	M14	14	2.4	91.5	32	17	16	1/2"	8423 0132 88
<b>Vertical Grinders</b>												
G2415	8500	1.1	180	UNC 5/8"	30	2.7	198	23	21	16	1/2"	8423 2522 49
G2416	6000	0.9	180	UNC 5/8"	30	2.7	198	30	18	16	1/2"	8423 2522 56

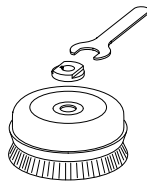
# Angle and Vertical Grinders

## Accessories

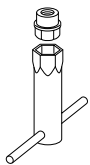
Accessories Grinders	G2408	G2511	G2515	G2415	G2416	G2588
Flange depressed center wheel (incl. with tool)	-	-	-	4170 0219 87	4170 0219 87	4150 1160 02
Flange cut-off wheel (incl. with tool)	-	-	-	4170 1133 87	4170 1133 87	-
Flange nut	4150 1160 00	4150 1160 02	4112 3002 11	-	-	-
Flange nut, quick change Fixtec - M14		4150 1929 00				4150 1929 00
Support handle	4110 1355 85	4110 1355 85	4111 3002 97	4110 1355 87	4110 1355 87	4110 1355 89
Vibration damped handle	4150 1521 80	4150 1521 80	-	-	-	4150 1521 80
Cut-off kit	-	-	4112 1553 90	-	-	-
Soft pad Ø 180 mm	-	-	-	4170 0756 80	4171 0756 80	-
Stiff pad Ø 180 mm	-	-	-	4170 0757 80	4171 0757 80	-
Steel wire brush Ø 115 mm for 5/8" spindle	-	-	-	-	4170 0491 00	-
Steel wire brush Ø 140 mm for 5/8" spindle	-	-	-	-	4170 0685 00	-
Attachment set for Ø 115 mm wire brush	-	-	-	-	4170 0459 81	-
Attachment set for Ø 140 mm wire brush	-	-	-	-	4170 0550 80	-
Add on spot suction						
Ø 125 mm	3780 4032 14	3780 4032 14	-	-	-	-
Ø 180-230 mm	-	-	3780 4032 12	3780 4032 12	3780 4032 12	3780 4032 12
Alu-cut guard kit					-	
Saw blade, Ø 125 mm for cutting applic, 30 teeth, 2 mm thick	-	4112 1164 00	-	-	-	-
Saw blade, Ø 125 mm for milling applic, 6 teeth, 4 mm thick	-	4112 1162 00	-	-	-	-
MultiFlex	8202 1350 20	8202 1350 22	8202 1350 22	8202 1350 24	8202 1350 24	8202 1350 24



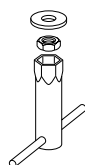
Steel wire brush  
Ø 115 mm



Steel wire brush  
Ø 140 mm

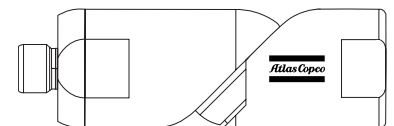


Attachment set for  
steel wire brush  
Ø 115 mm



Attachment set for  
steel wire brush  
Ø 140 mm

MultiFlex





# Die Grinders







## Powerful and scatter-free

- Great power-to-weight ratio
- Speed governor for optimal grinding speed
- Safety start lever
- Unique spindle suspension that prevents burr chatter and minimizes vibration transfer

# Die Grinders

## G24-series

**PRO** die grinders are robust tools for grinding and finishing work in general industry.

**G2414/G2424** are equipped with speed governors for optimal process speed together with a unique dampening system that are reducing the vibrations for the operator. Extreme working conditions place high demands on tools being used. We offer **G2417/G2427** with a heavy duty, all-steel body that will fulfil these requirements.



G2412-1



G2422-1



G2414



G2417

Model	Max free speed r/min	Max output kW	Length mm	Weight kg	Air cons. at max output l/s	Air cons. at free speed l/s	Rec. hose size mm	Air inlet thread BSP	Collet size		Ordering No.
									6 mm	1/4"	
<b>Straight - Standard</b>											
G2412-1	20000	0.35	178	0.5	10.3	13.0	10	1/4"	•	•	8423 0312 21
G2414-S085	8500	0.50	215	0.8	13.0	4.2	13	3/8"	•	•	8423 0312 58
G2414 S120	12000	0.75	215	0.8	16.0	5.3	13	3/8"	•	•	8423 0312 57
G2414 S150	15000	0.85	215	0.8	18.0	7.2	13	3/8"	•	•	8423 0312 56
G2414 S200	20000	0.90	215	0.8	19.0	9.0	13	3/8"	•	•	8423 0312 30
G2414 S250	25000	0.95	215	0.8	21.0	14.5	13	3/8"	•	•	8423 0312 29
<b>Straight - All steel body</b>											
G2417-S120	12000	0.66	213	1.2	13.8	4.0	13	3/8"	•	-	8423 0312 84
G2417-S180	18000	0.82	213	1.2	17.4	7.0	13	3/8"	•	-	8423 0312 83
G2417-S250	25000	0.86	213	1.2	18.5	11.0	13	3/8"	•	-	8423 0312 82
<b>Straight extended</b>											
G2422-1	20000	0.35	277	0.7	10.3	13.0	13	1/4"	•	•	8423 0312 47
G2424-S085	8500	0.44	315	1.0	13.0	4.2	13	3/8"	•	•	8423 0312 61
G2424 S120	12000	0.70	315	1.0	16.0	5.3	13	3/8"	•	•	8423 0312 60
G2424 S150	15000	0.75	315	1.0	18.0	7.2	13	3/8"	•	•	8423 0312 59
G2424 S200	20000	0.85	315	1.0	19.0	9.0	13	3/8"	•	•	8423 0312 55
G2424 S250	25000	0.90	315	1.0	21.0	14.5	13	3/8"	•	•	8423 0312 62
<b>Straight extended - All steel body</b>											
G2427-S250	25000	0.86	338	1.6	18.5	11.0	13	3/8"	•	-	8423 0312 86
G2427-S180	18000	0.82	338	1.6	17.4	7.0	13	3/8"	•	-	8423 0312 87
G2427-S120	12000	0.66	338	1.6	13.8	4.0	13	3/8"	•	-	8423 0312 88
<b>Straight - Standard - Low Speed</b>											
G2440	4300	0.55	216	0.9	5.7	7.0	10	1/4"	•	•	8423 0312 20





**G2451** is a lightweight, high-speed die grinder for light grinding and precision work. It has a robust aluminum housing with a plastic cover and comes with an exhaust air hose.

G2451

Model	Max free speed r/min	Max output kW	Length mm	Weight kg	Air cons. at free speed l/s	Rec. hose size mm	Air inlet thread BSP	Collet size		Ordering No.
								3 mm	1/8"	
G2451	80000	0.080	140	0.48	2.7	5	1/4"	•	•	8423 0313 01

Hose included

## Accessories

### Collet complete

For model G2412, G2414, G2422, G2424	Ordering No.
3 mm	4150 1049 81
6 mm	4150 1049 83*
8 mm	4150 1049 84
1/8"	4150 1049 85
1/4"	4150 1049 88*

\*Collet included with tool

For model G2451	Ordering No.
3 mm	4112 1380 00*
1/8"	4112 1381 00*
1/12"	4112 1381 01

\*Collet included with tool

For model G2417, G2427	Ordering No.
<b>Collets</b>	
Collet Ø 1/4"	4150 0076 00
Collet Ø 3 mm	4150 0081 00
Collet Ø 5 mm	4150 0075 01
Collet Ø 6 mm	4150 0075 00
Collet Ø 8 mm	4150 0074 00
Collet nut	4150 0760 00
Collet holder and collet nut	4110 0844 90
Extension 75 mm (3")	4150 0674 00

## Productivity Kits

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15
<b>For grinders and nutrunners with 3/8" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
<b>For grinders and nutrunners with 1/2" BSP air inlet</b>					
MIDI Optimizer F/R EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

# Sanding and polishing





## For the optimal **surface finish!**

- Great power-to-weight ratio
- Speed governor for optimal sanding speed
- Rubber grip on handle for insulation and comfort
- Safety start lever
- Spot suction kit available for clean and healthy working environment



# Sanding and polishing

## Angle sanders

The **G2588 Angle Sander** is suitable for rough sanding when more power is needed. Light and powerful, this is a powerful tool for the application.

Focus on operator ergonomics and productivity Available in two speeds and spindle threads.



G2588

Model	Max free speed r/min	Max output kW	Max pad dia	Spindle thread	Spindle length mm	Weight kg	Height over spindle mm	Air cons. at max output l/s	Air cons. at free speed l/s	Rec. Hose Size mm	Air inlet thread BSP	Ordering No.
G2588 S066	6600	1.7	230	UNC 5/8"	24.5	2.4	87	32	17	16	1/2	8423 0132 80
G2588 S085-M14	8500	1.7	180	M14	21	2.4	87	32	17	16	1/2	8423 0132 81

# Sanding and polishing

## Belt sanders

**G2410/G2420** are suitable for precision sanding where access is difficult with conventional sanders.

The head rotation provides a versatile solution for many applications.



G2410

G2420

Model	Max free speed r/min	Max output kW	Belt speed m/min	Belt dimension mm	Weight kg	Air cons. l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
G2410	25000	275	1400	13x305	0.9	10	10	1/4"	8423 0304 10
G2410 Kit	25000	275	1400	13x305*	0.9	10	10	1/4"	8423 0304 11
G2420	22000	350	1500	19x520	1.0	11	10	1/4"	8423 0304 20

\*13x305 std, but also includes 6X305 and 13x305 felt belt arm

Sanding belt kit G2410	Grit size			
	40+	60+	80+	120+
3M sanding belt kit 20 pcs, 6x305mm (1/4"x12")	4170 1208 00	4170 1208 02	4170 1208 03	4170 1208 04
3M sanding belt kit 20 pcs, 13x305mm (1/2"x12")	4170 1208 05	4170 1208 06	4170 1208 07	4170 1208 08
Sanding kit G2420				
3M sanding belt kit 20 pcs, 19x520mm (3/4"x20-1/2")	4170 1208 13	4170 1208 14	4170 1208 15	4170 1208 16

Felt belt kit G2410	Coars	Medium	Very fine
3M Scotch-brite felt belt kit 10pcs, 13x305mm (1/2"x12")	4170 1210 00	4170 1210 01	4170 1210 02

G2410 Accessories	Ordering No.
Contact arm sanding belts 13 x 305mm (1/2"x12")(std arm)	4112 3007 88
Contact arm sanding belts 3 & 6 x 305mm (1/8" & 1/4"x12")	4112 3007 78
Contact arm felt belts 13 x 305mm (1/2"x12")	4112 3007 79
Service kit motor	4081 0501 90
Service kit general	4081 0502 90
Service kit belt support	4081 0503 90

G2420 Accessories	Ordering No.
Contact arm sanding belts 19 x 520mm (3/4"x20-1/2")(std arm)	4112 3008 83
Contact arm sanding belts 19x460mm (3/4"x18")	4112 3008 81
Service kit motor	4081 0520 90
Service kit general	4081 0519 90
Service kit belt support	4081 0521 90

# Sanding and polishing

## Pistol sanders 175-270 W

Pistol grip sanders for pad size 75 to 125 mm. **G2502** is a powerful sander for heavy sanding, **G2302** is a small sander for lighter sanding jobs. Both models are reliable, durable and easy to work with.



G2302



G2502



G2302-KIT

Model	Max free speed r/min	Max output kW	Max pad dia mm	Weight kg	Spindle thread	Air cons. l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
G2302	17000	0.175	75	0.6	UNC 1/4"	9	10	1/4"	8423 0312 14
G2302 KIT	17000	0.175	75	0.6	UNC 1/4"	9	10	1/4"	8423 0312 15
G2502	12000	0.270	125	1	UNF 3/8"	12	10	1/4"	8423 0312 05



# Sanding and polishing

## Random orbital sanders

**G2438** orbital sanders are ideal for precise and efficient sanding for fine surfaces using one hand..

The tools are compact with a composite housing. With three different orbital diameters as well as different dust suction solutions, the range covers virtually every need.



G2438-N - No suction



G2438-C - Central suction



G2438-I - Self suction

Model	Max free speed r/min	Max output W	Max pad dia mm	Orbit dia mm	Weight kg	Spindle thread	Air cons. at free speed l/s	Rec. hose size mm	Air inlet thread BSP	Extraction			Ordering No.
										No suction	Central suction	Self suction	
G2428-10	9000	180	150	10	1.5	UNF 5/16"	9	10	1/4"	•	-	-	8423 2810 16
G2438-6.3N	12000	160	150	2.5	0.9	UNF 5/16"	9	10	1/4"	•	-	-	8423 0313 10
G2438-6.5N	12000	160	150	5	0.9	UNF 5/16"	9	10	1/4"	•	-	-	8423 0313 05
G2438-6.10N	12000	160	150	10	0.9	UNF 5/16"	9	10	1/4"	•	-	-	8423 0313 12
G2438-6.3I	12000	160	150	2.5	1	UNF 5/16"	9	10	1/4"	-	-	•	8423 0313 20
G2438-6.5I	12000	160	150	5	1	UNF 5/16"	9	10	1/4"	-	-	•	8423 0313 15
G2438-6.10I	12000	160	150	10	1	UNF 5/16"	9	10	1/4"	-	-	•	8423 0313 17
G2438-6.3C	12000	160	150	2.5	0.9	UNF 5/16"	9	10	1/4"	-	•	-	8423 0313 30
G2438-6.5C	12000	160	150	5	0.9	UNF 5/16"	9	10	1/4"	-	•	-	8423 0313 25
G2438-6.10C	12000	160	150	10	0.9	UNF 5/16"	9	10	1/4"	-	•	-	8423 0313 27

Velcro pad included with tool

## Accessories

Model	Ordering No.
<b>Pads for G2438</b>	
125 mm Velcro 6 hole	4112 6106 04
125 mm Vinyl no hole	4112 6106 01
125 mm Velcro no hole	4112 6106 03
150 mm Velcro 6 hole	4112 1369 00
150 mm Velcro no hole	4112 1363 00
<b>Pads for G2428-10</b>	
150 mm Velcro 6 hole	4112 6103 16
150 mm Vinyl 6 hole	4112 6105 06
150 mm Velcro no hole	4112 6102 10
150 mm Vinyl no hole	4112 6104 00

# Sanding and polishing

## Angle polishers

G2406



**G2406/7** polishers are designed to be powerful and robust.

These tools can be used with lambswool pads and various sponges for an optimal surface finish.



G2407

Model	Max free speed r/min	Max output kW	Rec. pad dia mm	Spindle thread	Spindle length mm	Weight kg	Air cons. at free speed l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
G2406	2000	350	125-200	UNF 3/8"	17	1.4	10	10	1/4"	8423 0304 88
G2407 M14	3400	350	125-200	M14	12	1.4	10	10	1/4"	8423 0304 55
G2407	3400	350	125-200	UNF 3/8"	17	1.4	10	10	1/4"	8423 0304 77

## Accessories

Velcro pads	Ordering No.
150 mm Velcro pad, thread UNC 5/8". Maximum speed 2 500 r/min. To be used together with Velcro sponge heads or Velcro lambswool bonnet.	4112 6092 15
Lambswool bonnet 150 mm with Velcro fitting. Maximum speed 2 500 r/min.	4112 6093 15
150 Velcro sponge head, maximum speed 2 500 r/min, White, Dense, firm sponge head for compounding 2-pack paint systems. Excellent result with all leading makes of compound and polish.	4112 6094 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, Blue Softer sponge, more open cell, for polishing and compounding of cellulose, acrylics etc.	4112 6096 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, Yellow coarse sponge, open cell, for aggressive compounding including oxidized paintwork.	4112 6099 15
Threaded pads	
150 mm white sponge head pad, thread UNC 5/8". Maximum speed 4 000 r/min.	4112 6100 15
150 mm blue sponge head pad, thread UNC 5/8". Maximum speed 4 000 r/min.	4112 6101 15
180 mm soft plastic UNC 5/8" and spanner. Maximum speed 8 000 r/min.	4170 0756 80
UNF 3/8"-24 x M14 Spindle thread adaptor. (To be used with M14 threaded pads.)	4021 0435 00
UNF 3/8" x UNC 5/8" Spindle thread adaptor. (To be used with 5/8" threaded pads. Included with tool.)	4021 0434 00
Exhaust air hose	4150 1077 80



## Productivity Kit

Model	Economical airflow	Hose 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15



# Percussive Tools

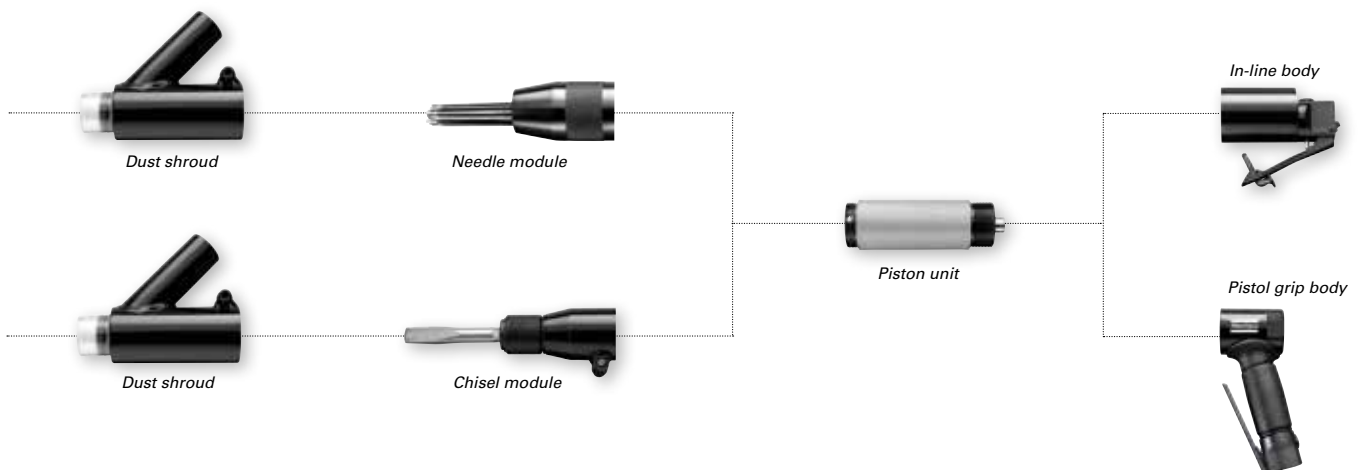


# We have an ergonomic solution

- No additional tools required for changing needles.
- Lightweight tool, offering one-handed operation.
- Low vibration improves operator control and reduces risk of vibration-related injuries.
- Low vibration, heavy duty design.



**Flexibility:** Atlas Copco needle scalers convert to chisel scalers in seconds. Low vibration needle and chisel scalers can be fitted with vacuum shrouded front tubes to control dust where necessary.



# Percussive Tools

## Weld flux removal tools

**PRO** weld flux removal tools and scalers are perfect for tough applications involving removal of weld flux or paint and rust. The all-steel construction of the tools ensures durability.

The **P2540**, **P2541**, **P2550** and **P2551** tools are all vibration damped and available in in-line and pistol grip configurations.

The compact **P2520** is a good choice for weld flux removal.



P2520



P2540



P2541



P2550

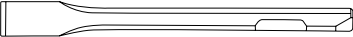
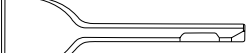
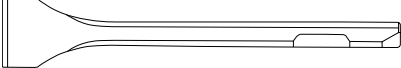
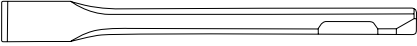

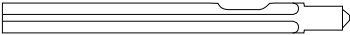
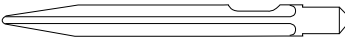
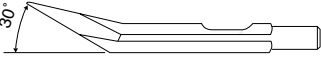


P2551

Model	Blows Hz	Stroke mm	Energy per blow J	Length mm	Weight kg	Bushing mm	Air cons. l/s	Rec. hose size mm	Air inlet thread BSP	Bushing square type	Ordering No.
P2520	90	16	1.6	182	1	12.7	2.4	6.3	1/4"	•	8425 0103 15
P2540	40	11	-	340	2.7	-	8	10	1/4"	-	8425 0103 40
P2541	40	11	-	370	2.35	-	8	10	1/4"	-	8425 0103 41
P2550	40	11	3	395	3.2	12.7	8	10	1/4"	•	8425 0103 50
P2551	40	11	3	435	2.95	12.7	8	10	1/4"	•	8425 0103 51



# Percussive Tools

	Designation	Blade width	Chisel length	For tool	Ordering No.
	Flat chisel	19 mm	178 mm	P2550/51	3085 0400 47
	Wide flat chisel	64 mm	178 mm	P2550/51	3085 0400 48
	Flat chisel	19 mm	254 mm	P2550/51	3085 0400 49
	Weld flux chisel	35 mm	178 mm	P2550/51	3085 0400 50
	Thin chisel	6 mm	203 mm	P2550/51	3085 0400 51
	Chisel blank	12.7 mm	155 mm	P2520	3085 0400 00
		12.7 mm	200 mm	P2520	3085 0400 01
		12.7 mm	250 mm	P2520	3085 0400 02
	Flat chisel	14.8 mm	155 mm	P2520	3085 0400 03
		14.8 mm	200 mm	P2520	3085 0400 04
		14.8 mm	250 mm	P2520	3085 0400 05
	Flux chisel	25 mm	155 mm	P2520	3085 0400 06
		25 mm	200 mm	P2520	3085 0400 07

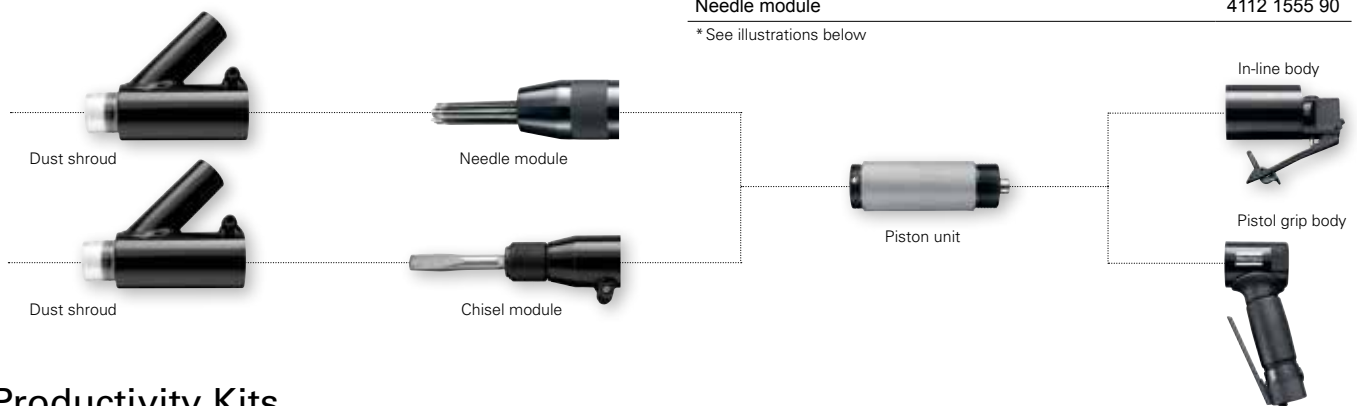
## Needles

Designation	Length mm	Ordering No.
Set of 19 needles		
Steel standard	180	3512 0071 90
Stainless steel, flat ends	180	3512 0072 90
Beryllium copper flat ends	180	3512 0073 90

## Modules\*

Designation	Ordering No.
Dust shroud	4112 1546 04
In-line body	4112 3009 93
Pistol grip body	4112 3009 94
Chisel module	4112 1554 90
Needle module	4112 1555 90

\* See illustrations below



## Productivity Kits

Model	Economical air flow	Hose 5 m	Coupling	Lubrication	Ordering No.
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>					
<b>MIDI Optimizer</b> F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>					
<b>MIDI Optimizer</b> F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Percussive Tools

## Chipping Hammers

**PRO** chipping hammers are available as pistol grip versions for lighter applications.

The bigger D-handle models are suitable for heavy duty applications.



P2535-H



P2530-H



P2531-H



P2536-H



P2539-H

Model	Blows Hz	Stroke mm	Energy per blow J	Length mm	Weight kg	Bushing mm	Air cons. l/s	Rec. hose size mm	Air inlet thread BSP	Bushing type		Ordering No
										Hex	Round	
P2530-H	60	38	1.3	140	1.1	10.2	5.8	10	1/4"	●	-	8425 0206 15
P2530-R	60	38	1.3	140	1.1	10.2	5.8	10	1/4"	-	●	8425 0206 16
P2531-H	50	45	4.5	193	1.5	10.2	6.7	10	1/4"	●	-	8425 0206 20
P2531-R	50	45	4.5	193	1.5	10.2	6.7	10	1/4"	-	●	8425 0206 21
P2535-H	50	45	4.5	273	2.5	12	7	10	1/4"	●	-	8425 0206 30
P2535-R	50	45	4.5	273	2.5	14	7	10	1/4"	-	●	8425 0206 31
P2536-H	50	25	8.1	301	5	17.5	10	13	3/8"	●	-	8425 0206 35
P2539-H	28	102	21.2	425	6.8	17.5	11	13	3/8"	●	-	8425 0206 50

## Productivity Kits

Model	Economical air flow	Hose 5 m	Coupling	Lubrication	Ordering No.
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Percussive Tools

## Other tools

**P2505** engraving pen will give a precise result on any hard material, such as aluminum, steel or glass. The needle is easy to change and the tool is small yet durable.

**C1050** allows you to cut through material with ease. Due to its geared mechanism the tool will not stall as a conventional air saws commonly do.



P2505



C1050

Model	Max free speed r/min	Length mm	Weight kg	Air cons. l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
P2505	190	175	0.12	0.6	3.2	1/8"	8425 0102 72

Model	Stroke per minute	Stroke length mm	Blade shank opening mm	Length mm	Weight kg	Air cons. l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
C1050	10500	5	5	148	0.52	2.2	6.3	1/4"	8424 1110 50

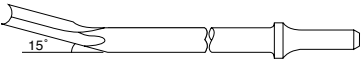
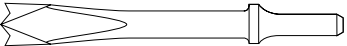
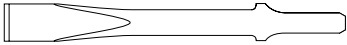
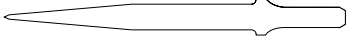
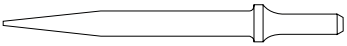

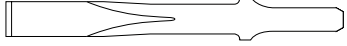
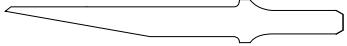
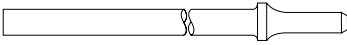

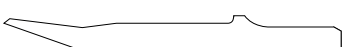
## Accessories

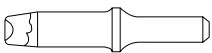

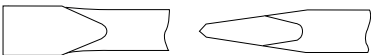

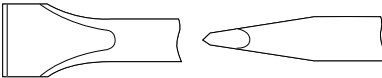
Model	Ordering No.
P2505 Needle and small parts kit	4081 0068 90

C1050	Ordering No.
Saw Blade 32 teeth 10pcs	4112 3008 45
Saw Blade 24 teeth 10pcs	4112 3008 46



# Accessories

	Designation	Width	Length	For tool	Ordering No.
		25 mm	250 mm	P2520, P2521, P2522	3085 0400 08
	Plate cutting chisel	13 mm	208 mm	P2530-R, P2531-R	3085 0400 09
		13 mm	208 mm	P2530-H, P2531-H	3085 0400 10
	Double edge plate cutting chisel	19 mm	155 mm	P2530-R, P2531-R	3085 0400 11
		19 mm	155 mm	P2530-H, P2531-H	3085 0400 12
	Flat chisel	20 mm	178 mm	P2530-R, P2531-R	3085 0400 13
		20 mm	178 mm	P2530-H, P2531-H	3085 0400 14
	Point chisel	3.2 mm	178 mm	P2530-R, P2531-R	3085 0400 15
		3.2 mm	178 mm	P2530-H, P2531-H	3085 0400 16
	Rivet cutter	15 mm	150 mm	P2530-R, P2531-R	3085 0400 17
		15 mm	150 mm	P2530-H, P2531-H	3085 0400 18
	Chisel blank	12.7 mm	182 mm	P2530-R, P2531-R	3085 0400 19
		12.7 mm	182 mm	P2530-H, P2531-H	3085 0400 20
	Spot weld chisel	19 mm	145 mm	P2530-R, P2531-R	3085 0400 21
		19 mm	145 mm	P2530-H, P2531-H	3085 0400 22

	Designation	Width	Length	For tool	Ordering No.
	Rivet snap 3 Rivet size 3 mm		90 mm	P2530-R, P2531-R	3085 0400 23
	Rivet snap 4 Rivet size 4 mm		90 mm	P2530-R, P2531-R	3085 0400 24
	Rivet snap 5 Rivet size 5 mm		90 mm	P2530-R, P2531-R	3085 0400 25
	Rivet snap 6 Rivet size 6 mm		90 mm	P2530-R, P2531-R	3085 0400 26
	Chisel blank	16 mm	250 mm	P2535-R	3085 0400 27
		16 mm	300 mm	P2535-R	3085 0400 28
		16 mm	250 mm	P2535-H	3085 0400 29
		16 mm	300 mm	P2535-H	3085 0400 30
		20 mm	250 mm	P2536-R	3085 0400 31
		20 mm	300 mm	P2536-R	3085 0400 32
		20 mm	250 mm	P2536-H, P2539-H	3085 0400 33
		20 mm	300 mm	P2536-H, P2539-H	3085 0400 34
	Flat chisel	16 mm	200 mm	P2535-R	3085 0400 35
		16 mm	200 mm	P2535-H	3085 0400 36
		20 mm	250 mm	P2536-R	3085 0400 37
		20 mm	250 mm	P2536-H, P2539-H	3085 0400 38
	Point chisel	16 mm	200 mm	P2535-R	3085 0400 39
		16 mm	200 mm	P2535-H	3085 0400 40
		20 mm	250 mm	P2536-R	3085 0400 41
		20 mm	250 mm	P2536-H, P2539-H	3085 0400 42
	Wide flat chisel	25 mm	200 mm	P2535-R	3085 0400 43
		25 mm	200 mm	P2535-H	3085 0400 44
		32 mm	250 mm	P2536-R	3085 0400 45
		32 mm	250 mm	P2536-H, P2539-H	3085 0400 46

# Air preparation units





# Get the most out of your tools

- Get maximum productivity from your tools
- Extend the tool lifetime
- Lubricate your air tools
- Range covers all pneumatic tool needs

## Selection guide

Mini	Midi	Maxi
		
0-9 l/s	9-31 l/s	31-82 l/s

# Air Preparation Units



MINI K

Air preparation unit **MINI-K**'s main application is to prepare the air for pneumatic components.

**MINI-K** units have a 1/4" BSP connection thread, a composite housing made of polyamide 66 and the bowls are made of polycarbonate.

- **Working temperature**  
0°C to +50°C at 10 bar
- **Operating pressure**  
Inlet pressure 0-10 bar  
Outlet pressure 0.5-8 bar
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/8" BSP

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MINI FIL 08K-B	12	30	Polycarbonate	Manual	12	-	0.1	9092 0000 01
<b>Regulators</b>								
MINI REG 08K	10	20	-	-	-	-	0.11	9092 0000 61
<b>Lubricators</b>								
MINI DIM 08K	9	23	Polycarbonate	-	-	35	0.09	9092 0000 91
<b>Filter/regulator</b>								
MINI F/R 08K	12	17	Polycarbonate	Manual	12	-	0.12	9092 0001 21
<b>Filter/regulator+lubricator</b>								
MINI F/RD 08K	9	14	Polycarbonate	Manual	12	35	0.32	9092 0001 51

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MINI K F/RD unit is delivered complete with mounting bracket, assembly kit and pressure gauge.

# Air Preparation Units



Air preparation unit **MINI-B**'s main application is to prepare the air for pneumatic components and tools with low air consumption.

**MINI-B** has a 1/4" BSP connection thread and the housing is made of diecast zinc. The bowls are made of polycarbonate or zinc.

- **Working temperature**  
0°C to +50°C at 10 bar
- **Operating pressure**  
Inlet pressure 0-16 bar  
Outlet pressure 0.5-8 bar
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/8" BSP

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MINI FIL 08B-B	12	24	Polycarbonate	Semi/automatic	22	-	0.25	9093 0032 11
MINI FIL 08B-C	12	24	Polycarbonate	Manual	22	-	0.25	9093 0032 41
MINI FIL 08B-D	13	24	Metal	Manual	22	-	0.25	9093 0032 71
<b>Regulators</b>								
MINI REG 08B	9	47.5	-	-	-	-	0.30	9093 0033 01
MINI REG 08B-LP	9	47.5	-	-	-	-	0.30	9093 0073 21
MINI REG 08P	8	47.5	-	-	-	-	0.30	9093 0000 31
<b>Lubricators</b>								
MINI DIM 08B	12	23	Polycarbonate	-	-	45	0.25	9093 0033 31
MINI DIM 08B-D	12	23	Metal	-	-	45	0.25	9093 0033 61
<b>Filter/regulator</b>								
MINI F/R 08B-B	9	38	Polycarbonate	Semi/automatic	22	-	0.35	9093 0033 91
MINI F/R 08B-C	9	38	Polycarbonate	Manual	22	-	0.35	9093 0034 21
<b>Filter/regulator+lubricator</b>								
MINI F/RD 08B-B	9	14.8	Polycarbonate	Semi/automatic	22	45	0.75	9093 0034 51
MINI F/RD 08B-C	9	14.8	Polycarbonate	Manual	22	45	0.75	9093 0034 81
<b>Filter+regulator+lubricator</b>								
MINI FRD 08B-B	9	13.8	Polycarbonate	Semi/automatic	22	45	0.95	9093 0062 11
MINI FRD 08B-C	9	13.8	Polycarbonate	Manual	22	45	0.95	9093 0062 41

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MINI F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.



# Air Preparation Units



MIDI Optimizer - 1/2"

The **MIDI Optimizer** is a self-regulating nanolubricator that automatically adjusts to the flow demand and ensures that the right amount of oil is supplied to the motor at all flow rates.

It is suitable for more than 90% of the Atlas Copco tool range. The unit has a 1/2" BSP connection thread and a housing and bowl of high-tech polymer. The bowl has a highly chemical resistant polypropylene insert.

- **Working temperature**  
-40°C to +60°C at 10 bar  
+2°C to +60°C at 10 bar for filters
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/4" BSP
- **Operating pressure**  
Inlet pressure 0-16 bar  
Outlet pressure 0.5-8 bar  
Outlet pressure, HP versions 0.5-16 bar

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MIDI Optimizer FIL A	-	117	Polymer, plastic insert	Automatic	60	-	0.3	9093 0021 01
MIDI Optimizer FIL M/S	-	117	Polymer, plastic insert	Manual/semi auto	60	-	0.3	9093 0021 02
<b>Regulators</b>								
MIDI Optimizer REG	-	97	-	-	-	-	0.35	9093 0021 05
MIDI Optimizer REG LP	-	97	-	-	-	-	0.35	9093 0021 06
MIDI Optimizer REG HP	-	97	-	-	-	-	0.35	9093 0021 30
<b>Lubricators</b>								
MIDI Optimizer DIM	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 10
MIDI Optimizer DIM EP	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 33
<b>Filter/regulator</b>								
MIDI Optimizer F/R A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 12
MIDI Optimizer F/R M/S	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 13
MIDI Optimizer F/R M/S HP	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 31
MIDI Optimizer F/R HP A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 32
<b>Filter/regulator+lubricator</b>								
MIDI Optimizer F/RD A	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 16
MIDI Optimizer F/RD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 17
MIDI Optimizer F/RD A EP	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 35
MIDI Optimizer F/RD M/S EP	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 36
<b>Filter+regulator+lubricator</b>								
MIDI Optimizer FRD A	31	55	Polymer, plastic insert	Automatic	60	90	1.1	9093 0021 24
MIDI Optimizer FRD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.1	9093 0021 25

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MIDI Optimizer F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

**EP** For impact and pulse tools  
**A** Automatic  
**M/S** Manual/semi automatic  
**HP** High pressure regulator  
**LP** Lockable regulator

# Air Preparation Units



MIDI Optimizer - 3/4"

The **MIDI Optimizer** is a self-regulating nanolubricator that automatically adjusts to the flow demand and ensures that the right amount of oil is supplied to the motor at all flow rates.

It is suitable for more than 90% of the Atlas Copco tool range. The unit has a 3/4" BSP connection thread and a housing and bowl of high-tech polymer. The bowl has a highly chemical resistant polypropylene insert.

- **Working temperature**  
-40°C to +60°C at 10 bar  
+2°C to +60°C at 10 bar for filters
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/4" BSP
- **Operating pressure**  
Inlet pressure 0-16 bar  
Outlet pressure 0.5-8 bar  
Outlet pressure, HP versions 0.5-16 bar

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MIDI Optimizer 3/4" FIL A	-	117	Polymer, plastic insert	Automatic	60	-	0.3	9093 0021 40
MIDI Optimizer 3/4" FIL M/S	-	117	Polymer, plastic insert	Manual/semi auto	60	-	0.3	9093 0021 41
<b>Regulators</b>								
MIDI Optimizer 3/4" REG	-	97	-	-	-	-	0.35	9093 0021 42
MIDI Optimizer 3/4" REG LP	-	97	-	-	-	-	0.35	9093 0021 43
MIDI Optimizer 3/4" REG HP	-	97	-	-	-	-	0.35	9093 0021 44
<b>Lubricators</b>								
MIDI Optimizer 3/4" DIM	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 45
MIDI Optimizer 3/4" DIM EP	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 54
<b>Filter/regulator</b>								
MIDI Optimizer 3/4" F/R A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 46
MIDI Optimizer 3/4" F/R M/S	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 47
MIDI Optimizer 3/4" F/R M/S HP	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 48
MIDI Optimizer F/R 3/4" HP A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 49
<b>Filter/regulator+lubricator</b>								
MIDI Optimizer 3/4" F/RD A	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 50
MIDI Optimizer 3/4" F/RD A EP	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 55
MIDI Optimizer 3/4" F/RD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 56
MIDI Optimizer 3/4" F/RD M/S EP	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 51
<b>Filter+regulator+lubricator</b>								
MIDI Optimizer 3/4" FRD A	31	55	Polymer, plastic insert	Automatic	60	90	1.1	9093 0021 52
MIDI Optimizer 3/4" FRD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.1	9093 0021 53

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MIDI Optimizer F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

**EP** For impact and pulse tools  
**A** Automatic  
**M/S** Manual/semi automatic  
**HP** High pressure regulator  
**LP** Lockable regulator

# Air Preparation Units



MAXI B - 1"

The main application of this high flow air preparation unit is to prepare the air for pneumatic tools which are large air consumers and when long distribution hoses are being used. A good example is Atlas Copco turbine grinders.

The **MAXI-B** has a diecast zinc housing and aluminum bowls with polypropylene inserts, and the unit has a 1" BSP connection thread. The bowl is mounted directly on the housing for easy handling.

- **Working temperature**  
-10°C to +50°C at 10 bar  
NOTE: For dry compressed air, ice formation must be avoided.
- **Operating pressure**  
Inlet pressure 0-17.5 bar  
Outlet pressure 0.5-12 bar
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/4" BSP

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MAXI FIL 25B-B	106	190 <sup>a</sup>	Metal	Semi/automatic	130	-	0.9	9093 0074 21
<b>Regulators</b>								
MAXI REG 25B	85	333	-	-	-	-	1.2	9093 0074 61
MAXI REG 25B-LP	85	333	-	-	-	-	1.2	9093 0074 81
<b>Lubricators</b>								
MAXI DIM 25B	87	295	Metal	-	-	500	0.8	9093 0075 21
<b>Filter/regulator</b>								
MAXI F/R 25B-B	84	316	Metal	Semi/automatic	130	-	1.5	9093 0075 51
<b>Filter/regulator+lubricator</b>								
MAXI F/RD 25B-B	82	244	Metal	Semi/automatic	130	500	2.8	9093 0075 81
MAXI FRD 25B-B	81	209	Metal	Semi/automatic	130	500	3.3	9093 0076 01

<sup>a</sup>8 bar inlet pressure, 1 bar pressure drop.

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MINI F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

# Air Preparation Units

Model	MINI-K	MINI-B	MIDI OPTIMIZER 1/2"	MIDI OPTIMIZER 3/4"	MAXI-B
Mounting bracket kit <sup>a</sup>	9090 1902 00	9092 0063 01	9093 0022 01	9093 0022 01	9093 0076 15
Assembly kit <sup>a</sup>	9090 1901 90	9092 0062 71	9093 0022 02	9093 0022 02	9093 0076 31
<b>Filter (FIL) accessories (30 µm filter element is incl with all filters)</b>					
30 µm filter element	9090 1898 00	9092 0063 31	9093 0023 04	9093 0023 04	9093 0076 61
5 µm filter element		9092 0063 61	9093 0023 05	9093 0023 05	9093 0076 71
Bowl guard		9092 0063 91			
<b>Regulator (REG) accessories <sup>b</sup></b>					
Pressure gauge, 0-10 bar, Ø 40 mm	9090 1907 00	9090 1907 00			
Pressure gauge, 0-10 bar, Ø 50 mm		9090 1172 00	9090 2052 00	9090 2052 00	
Pressure gauge, 0-10 bar, Metal housing			9090 2052 01	9090 2052 01	
Pressure gauge, 0-16 bar, Ø 49 mm			9090 0239 00	9090 0239 00	9090 0239 00
Pressure gauge, 0-16 bar, Ø 50 mm		9090 1657 00			
Panel mounting pressure gauge, 0-10 bar, Ø 50 mm		9090 1173 00	9090 1173 00	9090 1173 00	
Panel mounting pressure gauge, 0-16 bar, Ø 63 mm					9093 0076 43
Key lock for regulator -LP		9092 0074 11	9092 0074 11	9092 0074 11	9092 0074 11
<b>Lubricator (DIM) accessories</b>					
Air distribution block kit	9090 1900 90	9092 0064 51	9093 0022 03	9093 0022 04	9093 0076 41
Bowl guard		9092 0063 91			
Glass sight dome		9090 1121 00			
Oil reduction plate			9093 0022 06	9093 0022 06	

<sup>a</sup> Are included in combination units (FD, FTD, F/RD and FRD). Mounting bracket kits and assembly kits have to be ordered separately for separate units.

<sup>b</sup> Pressure gauge 0-10 bar is included in the combination units (F/RD and FRD). Pressure gauge has to be ordered separately for separate units.

## Optimizer - Air Tool Oil

Atlas Copco Optimizer air tool oil is a white, oil based lubricant for pneumatic tools. It has excellent antiwear properties and contains additives preventing oxidation and foaming. Optimizer air tool oil provides a better working environment, compared to conventional mist lubrication oils and is recommended when stringent demands are placed on the working environment. Safety data sheets (MSDS/SDS) available online.

- **Temperature range**  
-25°C to +70°C
- **Density at 15°C**  
869 kg/m<sup>3</sup>
- **Viscosity at 40°C**  
22 mm<sup>2</sup>/s
- **Pour point**  
-48°C
- **Flash point COC**  
>170°C

Model	Ordering No.
Optimizer 0.5 liter	9090 0000 02
Optimizer 1 liter	9090 0000 04
Optimizer 4 liter	9090 0000 06

## FRL-stand

Model	Ordering No.
FRL-Stand - suits all models	9090 2101 00
FRL-Stand - Midi BSP *	9090 3030 06
FRL-Stand - Maxi BSP *	9090 3030 04
<b>Hose kits to fit FRL-Stand (Midi and Maxi)</b>	
TURBO 13 - EQ10 - 5M - EU	8202 1181 81
TURBO 16 - EQ15E - 5M - EU	8202 1181 82
TURBO 20 -	8202 1181 83

\* Hose kit not included in FRL stand



FRL-Stand - suits all models



Optimizer - Air Tool Oil





# Connectors and Couplings



## Be fast, quick **and productive**

- Get the best air flow
- Wide range of standard couplings
- Easy-to-use safety couplings
- Suitable for all types of pneumatic tools

# Connectors and Couplings

## ErgoQIC

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**The ErgoQIC** coupling is a ball valve coupling with a safety feature offering a higher flow than ordinary coupling systems. The ErgoQIC is a strong and durable full flow quick coupling with no air restriction inside the coupling. It is suitable for assembly tools, drills and grinders. Upgrading any air system with ErgoQIC will give the benefits of productivity and energy efficiency. ErgoQIC is designed to minimize the risk of sudden component separation and sound bang. The safety features are according to EN 983 and ISO 4414. It is made of hardened steel.



**The ErgoQIC** disconnects in two steps; first you push in and bend slowly – the pressurized air hose will then vent, and as a second step you can disconnect without risk of harming the operator.

## Claw

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**CLAW couplings** are made from dropforged, hardened steel which can withstand rough treatment and ensures a long life even under difficult conditions. The coupling head is the same for all hose sizes, which can therefore be freely combined.



The recommended maximum working pressure is 10 bar.

## SmartQIC

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**SMARTQIC** is the latest generation of pneumatic safety couplings and nipples. The couplings offers high flow and low pressure drop with innovative safety features. The design has a unique safety venting feature when disconnecting, thus minimizing risk of injury to the operator.



Durable and tough, the couplings are made out of zinc-plated steel/brass material and the entire product range complies with safety standards ISO 4414 and EN 983. SMARTQIC couplings also complies with OSHA 1910.95.

Suitable for many types of applications and pneumatic tools; such as screwdrivers, assembly tools, drills and grinders.

## MultiFlex Swivel

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**MultiFlex Swivel** is a multi-directional connector.



Once the tool is connected the hose will stay in the ideal position however much the operator and the tool move around. The MultiFlex bends and rotates 360° in all directions while the hose stays straight.

# Connectors and Couplings









**MAXIMIZE YOUR PRODUCTIVITY!**

**Select full flow couplings from Atlas Copco**



- Recommended by Atlas Copco for your application and tool.

ErgoQIC 08US	ErgoQIC 08 ErgoQIC 10AC	ErgoQIC 10 A	ErgoQIC 08E	ErgoQIC 10US	ErgoQIC 10	ErgoQIC 15E	ErgoQIC 15US
Air flow capacity 0-11 l/s	Air flow capacity 0-18 l/s	Air flow capacity 0-22 l/s	Air flow capacity 0-24 l/s	Air flow capacity 0-27 l/s	Air flow capacity 0-40 l/s	Air flow capacity 0-49 l/s	Air flow capacity 0-52 l/s

	Bolt size	Air flow requirements	ErgoQIC 08US	ErgoQIC 08 ErgoQIC 10AC	ErgoQIC 10 A	ErgoQIC 08E	ErgoQIC 10US	ErgoQIC 10	ErgoQIC 15E	ErgoQIC 15US
 <b>Screwdrivers</b>	M2-M6	2-8 l/s	•	•	•	•				
 <b>Impact wrenches</b>	1/4" HEX and 3/8"	2-9 l/s	•	•	•	•				
	3/8" and 1/2"	10-20 l/s			•	•	•	•		
	1" and 1 1/2"	28-37 l/s						•	•	•
 <b>Pulse tools</b>	M4-M5	9 l/s	•	•	•	•				
	M6-M12	15-25 l/s		•	•	•	•	•	•	
	M14-M20	32-49 l/s						•	•	•
 <b>Drills</b>	Power <820 W	8-21 l/s	•	•	•	•	•			
	Size <7 kg	6.5-14 l/s	•	•	•	•	•			
 <b>Chipping hammers</b>	Power <500 W	3-10 l/s	•	•	•	•				
	500-900 W	7-19 l/s			•	•	•	•		
	0.9-2 kW	20-35 l/s			•	•	•	•	•	•
 <b>Die grinders</b>	Power <2.5 kW	32 l/s					•	•	•	•
 <b>Turbine grinders</b>										
 <b>Blow guns</b>		4-7.5 l/s	•	•	•	•				

## Selection Guide

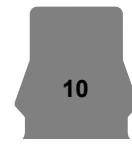
Standard Type	Global standard				Euro standard			US standard / ISO 6150-B			Asia standard
	08	10		10AC	7.6 (7.4) mm	10.4 mm	15 mm	5.3 mm (1/4")	8.2 mm (3/8")	11 mm (1/2")	7.5
Atlas Copco ErgoQIC	08	10		10AC	08E	15E		08US	10US	15US	10 A
Atlas Copco SmartQIC					08E	15E		08US	10US	15US	10 A
Atlas Copco QIC				10			15				
Atlas Copco Claw			Claw					08			
CEJN					320	410		310	430	550	315
Oetiker					SC C			SC B1	SC E	SC H	SC D
Tema				1650	1600	1700	1750	1400			
Rectus				33	25/26	27	34	23/24	30	37	13
Prevost					ESC/ERC07			IRC/ISC06	IRC/ISC08	ISG 11	ORG
Nitto Kohki											20/30/40
Amflo								C20B	C26	C10	
Bosch					7.2						
Parker						55		30 / B23	25F	17	
Foster								3003	4404	5205	
Abnox					x						
Afnor NF 49053								x	x	x	
Camozzi					508/5180						
Dynaquip								1/4"	3/8"		
EWO					x						
Festo					KD						
Gromelle								600	900		
Hansen								22/3000	400/4000	500/5000	
Ingersoll Rand					7S7			A2/MS/102	A3/103/203	A4/104/204	
Kaeser					x						
Legris					25/26	27		23/24	30		13
Tomco								180	4000	5000	



# Connectors and Couplings



Nipple profile



Nipple profile

## ErgoQIC 08

### ATLAS COPCO GLOBAL STANDARD

The ErgoQIC 08 is a full flow quick coupling with no air restriction inside the coupling. It is suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 08 will give the benefits of productivity and energy efficiency.

- Full flow coupling.
- Ergonomic design, small size and low weight.
- Strong and durable.
- Safety feature according to EN 983 / ISO 4414.
- Protective rubber cover available.
- Main market: Global.

## Technical Data

Max flow capacity	29 l/s (0.5 bar $\Delta$ P)
Economical air flow	18 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-10°C to +70°C

## ErgoQIC 10

### ATLAS COPCO GLOBAL STANDARD

The ErgoQIC 10 is a full flow coupling with no air restriction inside the coupling. It is suitable for assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 10 will give the benefits of productivity and energy efficiency.

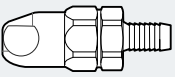
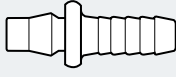
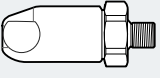
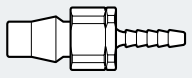
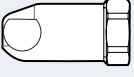
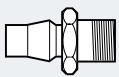
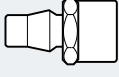

- Extreme full flow coupling.
- Strong and durable.
- Minimized connection force.
- Safety feature according to EN 983 / ISO 4414.
- Protective rubber cover available.
- Main market: Global.

## Technical Data

Max flow capacity	60 l/s (0.5 bar $\Delta$ P)
Economical air flow	40 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-10°C to +70°C

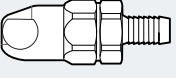
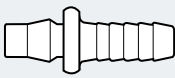
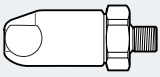
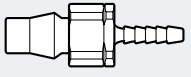

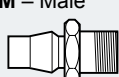
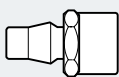
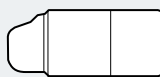
# Connectors and Couplings

## ERGOQIC 08 AND ERGONIP 08, 18 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 08	Ordering No.	Size		Connection type	Nipple ErgoNIP 08	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	8202 1110 04	6.3	1/4	<b>H – Hose</b> 	H05	8202 1210 33	5	3/16
	H08	8202 1110 12	8	5/16		H06	8202 1210 37	6.3	1/4
	H10	8202 1110 38	10	3/8		H08	8202 1210 45	8	5/16
	H13	8202 1110 40	12.5	1/2		H10	8202 1210 52	10	3/8
<b>M – Male</b> 	M08	8202 1110 61	1/4 BSP	<b>SH – Safety Hose<sup>a</sup></b> 	SH06	8202 1210 39	6.3	1/4	
	M10	8202 1110 79	3/8 BSP		SH08	8202 1210 47	8	5/16	
	M15	8202 1110 87	1/2 BSP		SH10	8202 1210 50	10	3/8	
<b>F – Female</b> 	F08	8202 1110 90	1/4 BSP	<b>M – Male</b> 	M06	8202 1210 03	1/8 BSP	<b>F – Female</b> 	
	F10	8202 1110 95	3/8 BSP		M08	8202 1210 11	1/4 BSP		
<b>Protective cover</b> 	9090 1940 00				M10	8202 1210 29	3/8 BSP		
					M15	8202 1210 31	1/2 BSP		

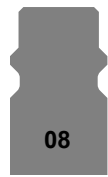
<sup>a</sup> For joining hoses longer than 3 meters.

## ERGOQIC 10 AND ERGONIP 10, 40 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 10	Ordering No.	Size		Connection type	Nipple ErgoNIP 10	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	8202 1120 30	6.3	1/4	<b>H – Hose</b> 	H06	8202 1220 35	6.3	1/4
	H08	8202 1120 40	8	5/16		H08	8202 1220 43	8	5/16
	H10	8202 1120 02	10	3/8		H10	8202 1220 50	10	3/8
	H13	8202 1120 10	12.5	1/2		H13	8202 1220 68	12.5	1/2
	H16	8202 1120 50	16	5/8		H16	8202 1220 76	16	5/8
	H20	8202 1120 60	19	3/4		H20	8202 1220 77	19	3/4
<b>M – Male</b> 	M08	8202 1120 85	1/4 BSP	<b>SH – Safety Hose<sup>a</sup></b> 	SH06	8202 1220 37	6.3	1/4	
	M10	8202 1120 93	3/8 BSP		SH08	8202 1220 45	8	5/16	
	M15	8202 1120 97	1/2 BSP		SH10	8202 1220 52	10	3/8	
	M20	8202 1120 98	3/4 BSP		SH13	8202 1220 70	12.5	1/2	
	M25	8202 1120 99	1 BSP		SH16	8202 1220 74	16	5/8	
<b>F – Female</b> 	F08	8202 1121 00	1/4 BSP	<b>M – Male</b> 	M08	8202 1220 01	1/4 BSP	<b>F – Female</b> 	
	F10	8202 1121 05	3/8 BSP		M10	8202 1220 19	3/8 BSP		
	F15	8202 1121 10	1/2 BSP		M15	8202 1220 27	1/2 BSP		
<b>Protective cover</b> 	9090 1931 00				F08	8202 1220 84	1/4 BSP		
					F10	8202 1220 86	3/8 BSP		
					F15	8202 1220 88	1/2 BSP		

<sup>a</sup> For joining hoses longer than 3 meters.

# Connectors and Couplings



Nipple profile



Nipple profile

## ErgoQIC 08E

### EURO STANDARD 7.6 (7.4)

The ErgoQIC 08E is a full flow quick coupling with no air restriction inside the coupling. It is suitable for assembly tools, drills and small grinders. Upgrading any air system using Eurostandard nipples with ErgoQIC 08E couplings will give the benefits of productivity and energy efficiency.

- Full flow coupling.
- Ergonomic design, small size and low weight.
- Strong and durable.
- Safety feature according to EN 983 / ISO 4414.
- Protective rubber cover available.
- Main market: Europe.

## Technical Data

Max flow capacity	38 l/s (0.5 bar $\Delta$ P)
Economical air flow	24 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-10°C to +70°C

## SmartQIC 08E

### EURO STANDARD 7.6 (7.4)

Safety coupling with venting connection, high flow and low pressure drop.

Common standard used in EU-markets for many types of assembly and material removal tools.

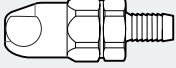

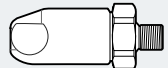
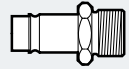
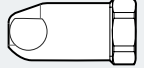
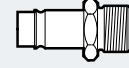

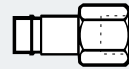
- High reliability with low pressure drop.
- Safety function with vented connection.
- High durability and easy handling.
- High air flow and increased productivity.
- Minimizes hose whip and injuries to operator.
- Long life time.
- Safety feature according to ISO-standard 4414 and EN 983.
- Complies with OSHA 1910.95.
- Main market: Europe.

## Technical Data

Max flow capacity	38 l/s (0.5 bar $\Delta$ P)
Economical air flow	35 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +100°C



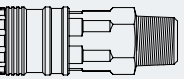
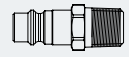
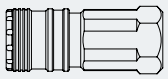
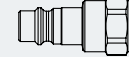
# Connectors and Couplings

## ERGOQIC 08E AND NIP EU 7.6, 24 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 08E		Size		Connection type	Nipple NIP EU 7.6		Size	
	Ordering No.		mm	in		Ordering No.		mm	in
<b>H – Hose</b> 	H06	8202 1106 00	6.3	1/4	<b>H – Hose</b> 	H05	8202 1204 00	5	3/16
	H08	8202 1106 01	8	5/16		H06	8202 1204 05	6.3	1/4
	H10	8202 1106 02	10	3/8		H08	8202 1204 10	8	5/16
	H13	8202 1106 03	12.5	1/2		H10	8202 1204 15	10	3/8
<b>M – Male thread</b> 	M08	8202 1106 04	1/4	BSP	<b>M – Male thread</b> 	M06	8202 1204 25	1/8	BSP
	M10	8202 1106 05	3/8	BSP		M08	8202 1204 30	1/4	BSP
	M15	8202 1106 06	1/2	BSP		M10	8202 1204 35	3/8	BSP
<b>F – Female</b> 	F08	8202 1106 07	1/4	BSP	<b>MT – Male taper thread</b> 	MT08	8202 1204 40	1/4	BSPT
	F10	8202 1106 08	3/8	BSP		MT10	8202 1204 45	3/8	BSPT
	F15	8202 1106 09	1/2	BSP		MT15	8202 1204 50	1/2	BSPT
<b>Protective cover <sup>a</sup></b> 		9090 1940 01			<b>F – Female</b> 	F08	8202 1204 55	1/4	BSP
						F10	8202 1204 60	3/8	BSP

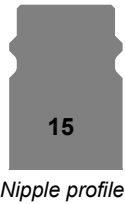
<sup>a</sup>Protect your work piece with a protective rubber cover for the ErgoQIC coupling.

## SMARTQIC 08E AND NIP 08E, EU 7.6 35 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling SmartQIC-08E		Size		Connection type	Nipple NIP-08E		Size	
	Ordering No.		mm	in		Ordering No.		mm	in
<b>H – Hose</b> 	H08	4221 0010 00	8	5/16	<b>H – Hose</b> 	H06	4221 0011 00	6.3	1/4
	H10	4221 0010 01	10	3/8		H08	4221 0011 01	8	5/16
	H13	4221 0010 02	13	1/2		H10	4221 0011 02	10	3/8
<b>M – Male</b> 	M06	4221 0010 03	1/4	BSPT	<b>M – Male</b> 	M06	4221 0011 04	1/4	BSP
	M10	4221 0010 04	3/8	BSPT		M10	4221 0011 05	3/8	BSP
	M15	4221 0010 05	1/2	BSPT		M15	4221 0011 06	1/2	BSP
<b>F – Female</b> 	F06	4221 0010 06	1/4	BSP	<b>F – Female</b> 	F06	4221 0011 07	1/4	BSP
	F10	4221 0010 07	3/8	BSP		F10	4221 0011 08	3/8	BSP
	F15	4221 0010 08	1/2	BSP		F15	4221 0011 09	1/2	BSP



# Connectors and Couplings



Nipple profile

## ErgoQIC 15E

### EURO STANDARD 10.4

The ErgoQIC 15E is a full flow coupling with no air restriction inside the coupling suitable for large air consuming assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 15E will give the benefit of productivity and energy efficiency.

- Extreme full flow coupling.
- Strong and durable.
- Minimized connection force.
- Safety feature according to EN 983 / ISO 4414.
- Main market: Europe.

### Technical Data

Max flow capacity	76 l/s (0.5 bar ΔP)
Economical air flow	49 l/s (0.2 bar ΔP)
Max working pressure	16 bar
Temperature range	-20°C to +80°C



Nipple profile

## SmartQIC 15E

### EURO STANDARD 10.4

Safety coupling with venting connection, high flow and low pressure drop.

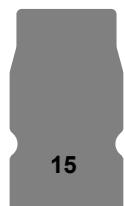
Common standard used in EU-markets for many types of assembly and material removal tools.

- High reliability with low pressure drop.
- Safety function with vented connection.
- High durability and easy handling.
- High air flow and increased productivity.
- Minimizes hose whip and injuries to operator.
- Long life time.
- Safety feature according to ISO-standard 4414 and EN 983.
- Complies with OSHA 1910.95.
- Main market: Europe.

### Technical Data

Max flow capacity	68 l/s (0.5 bar ΔP)
Economical air flow	63 l/s (0.2 bar ΔP)
Max working pressure	16 bar
Temperature range	-20°C to +100°C

## Euro standard 15 mm



Nipple profile

## QIC 15

### EURO STANDARD 15 MM

The QIC 15 quick coupling is suitable for assembly tools, grinders and drills. The QIC 15 can withstand extremely rough handling in tough applications.

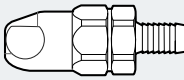

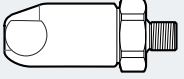
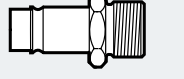
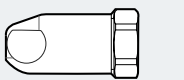
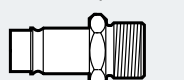
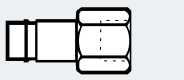
- Extremely high flow.
- Strong and durable.
- One-hand operation.
- Main market: Europe.

### Technical Data

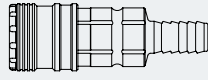
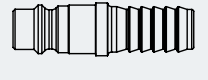
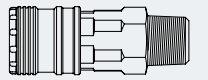
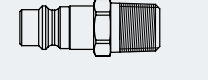
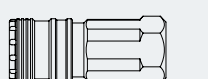
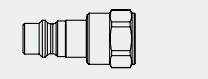
Max flow capacity	48 l/s (0.5 bar ΔP)
Economical air flow	30 l/s (0.2 bar ΔP)
Max working pressure	10 bar
Temperature range	-20°C to +80°C

# Connectors and Couplings

## ERGOQIC 15E AND NIP 15E, 49 L/S (recommended air flow at 6.3 bar pressure)

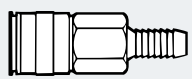

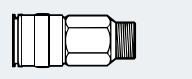
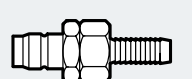
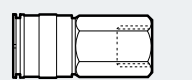



Connection type	Coupling ErgoQIC 15E	Ordering No.	Size		Connection type	Nipple NIP 15E	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H10	8202 1106 50	10	3/8	<b>H – Hose</b> 	H06	8202 1253 00	6.3	1/4
	H13	8202 1106 51	12.5	1/2		H08	8202 1253 05	8	5/16
	H16	8202 1106 52	16	5/8		H10	8202 1253 10	10	3/8
	H20	8202 1106 53	19	3/4		H13	8202 1253 15	12.5	1/2
<b>M – Male</b> 	M10	8202 1106 60	3/8	BSP	<b>M – Male</b> 	M10	8202 1253 25	3/8	BSP
	M15	8202 1106 61	1/2	BSP		M15	8202 1253 30	1/2	BSP
	M20	8202 1106 62	3/4	BSP		M20	8202 1253 34	3/4	BSP
	M25	8202 1106 63	1	BSP					
<b>F – Female</b> 	F10	8202 1106 70	3/8	BSP	<b>MT – Male taper thread</b> 	MT08	8202 1253 35	1/4	BSPT
	F15	8202 1106 71	1/2	BSP		MT10	8202 1253 40	3/8	BSPT
					<b>F – Female</b> 	F08	8202 1253 50	1/4	BSP
				F10		8202 1253 55	3/8	BSP	
				F15		8202 1253 60	1/2	BSP	
				F20		8202 1253 63	3/4	BSP	

## SMARTQIC 15E AND NIP-15E, EU 10.4, 63 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling SmartQIC 15E	Ordering No.	Size		Connection type	Nipple NIP 15E	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H10	4221 0020 00	10	3/8	<b>H – Hose</b> 	H10	4221 0021 00	10	3/8
	H13	4221 0020 01	13	1/2		H13	4221 0021 01	13	1/2
	H16	4221 0020 02	16	5/8		H16	4221 0021 02	16	5/8
	H20	4221 0020 03	19	3/4		H20	4221 0021 03	19	3/4
<b>M – Male thread</b> 	M10	4221 0020 04	3/8	BSPT	<b>M – Male</b> 	M10	4221 0021 04	3/8	BSPT
	M15	4221 0020 05	1/2	BSPT		M15	4221 0021 05	1/2	BSPT
	M20	4221 0020 06	3/4	BSPT		M20	4221 0021 06	3/4	BSPT
<b>F – Female thread</b> 	F10	4221 0020 07	3/8	BSP	<b>F – Female</b> 	F10	4221 0021 07	3/8	BSP
	F15	4221 0020 08	1/2	BSP		F15	4221 0021 08	1/2	BSP
	F20	4221 0020 09	3/4	BSP		F20	4221 0021 09	3/4	BSP

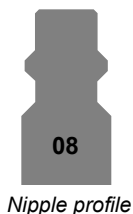
## Euro standard 15 mm

## QIC 15 AND NIP 15, 30 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 15	Ordering No.	Size		Connection type	Nipple NIP 15	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H10	8202 1304 00	10	3/8	<b>H – Hose</b> 	H06	8202 1251 03	6.3	1/4
	H13	8202 1304 18	12.5	1/2		H08	8202 1252 28	8	5/16
	H16	8202 1304 26	16	5/8		H10	8202 1251 11	10	3/8
<b>M – Male thread</b> 	M08	8202 1304 34	1/4	BSP	<b>SH – Safety Hose<sup>a</sup></b> 	SH10	8202 1203 44	10	3/8
	M10	8202 1304 42	3/8	BSP		SH13	8202 1203 51	12.5	1/2
	M15	8202 1304 59	1/2	BSP		SH16	8202 1203 69	16	5/8
<b>F – Female thread</b> 	F15	8202 1304 67	1/2	BSP	<b>M – Male thread /</b> 	M10	8202 1251 45	3/8	BSP
						M15	8202 1251 52	1/2	BSP
<b>F – Female thread</b> 	F08	8202 1251 94	1/4	BSP	<b>MT – Male taper thread</b> 	MT08	8202 1251 60	1/4	BSPT
	F10	8202 1252 02	3/8	BSP		MT10	8202 1251 78	3/8	BSPT
	F15	8202 1252 10	1/2	BSP		MT15	8202 1251 86	1/2	BSPT

<sup>a</sup> For hoses longer than 3 meters.

# Connectors and Couplings



## ErgoQIC 08US

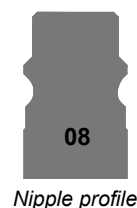
### ISO 6150-B / US STANDARD

The ErgoQIC 08US is a full flow quick coupling with no air restriction inside the coupling suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 08US will give the benefit of productivity and energy efficiency.

- Full flow coupling.
- Ergonomic design, small size and low weight.
- Strong and durable.
- Safety feature according to EN 983 / ISO 4414.
- Main market: North America, France, Norway and Spain.

### Technical Data

Max flow capacity	17 l/s (0.5 bar ΔP)
Economical air flow	11 l/s (0.2 bar ΔP)
Max working pressure	16 bar
Temperature range	-20°C to 80°C



## SmartQIC 08US

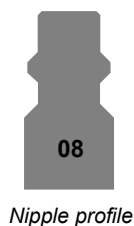
### ISO 6150-B / US STANDARD

Safety coupling with venting connection, high flow and low pressure drop.

- High reliability with low pressure drop.
- Safety function with vented connection.
- High durability and easy handling.
- High air flow and increased productivity.
- Minimizes hose whip and injuries to operator.
- Long life time.
- Safety feature according to ISO-standard 4414 and EN 983.
- Main market: Benelux, France, Norway and North America.

### Technical Data

Max flow capacity	16 l/s (0.5 bar ΔP)
Economical air flow	15 l/s (0.2 bar ΔP)
Max working pressure	16 bar
Temperature range	-20°C to +100°C



## QIC 08US

### ISO 6150-B / US STANDARD

The QIC 08US coupling is suitable for small screwdrivers and drills. Its lightweight, compact design makes the QIC 08US coupling easy to work with.

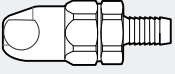

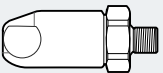
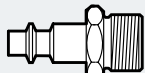
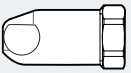
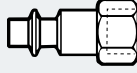
- High flow coupling.
- One-hand operation.
- Low connection force.
- Main market: North America, France, Norway and Spain.

### Technical Data

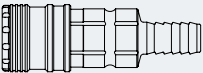
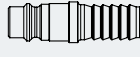
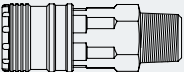
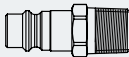
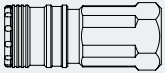
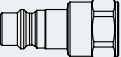
Max flow capacity	12 l/s (0.5 bar ΔP)
Economical air flow	8 l/s (0.2 bar ΔP)
Max working pressure	16 bar
Temperature range	-20°C to +80°C

# Connectors and Couplings


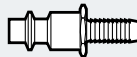

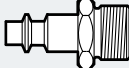
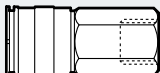
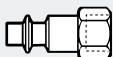
## ERGOQIC 08US AND NIP 08, 11 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 08US	Ordering No.	Size		Connection type	Nipple NIP 08	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	8202 1103 00	6.3	1/4	<b>H – Hose</b> 	H06	8202 1205 18	6.3	1/4
	H08	8202 1103 01	8	5/16		H08	8202 1205 26	8	5/16
	H10	8202 1103 02	10	3/8		H10	8202 1205 34	10	3/8
						H13	8202 1208 03	12.5	1/2
<b>M – Male</b> 	M08	8202 1103 05	1/4 BSP		<b>M – Male</b> 	M06	8202 1205 42	1/8 BSP	
	M10	8202 1103 07	3/8 BSP			M08	8202 1205 59	1/4 BSP	
	M15	8202 1103 09	1/2 BSP			M10	8202 1205 67	3/8 BSP	
<b>F – Female</b> 	F08	8202 1103 11	1/4 BSP		<b>F – Female</b> 	F08	8202 1205 83	1/4 BSP	
	F10	8202 1103 13	3/8 BSP			F10	8202 1205 91	3/8 BSP	

## SMARTQIC 08US AND NIP-08US, 15 L/S (recommended air flow at 6.3 bar pressure)

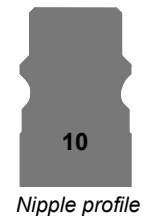
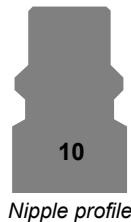
Connection type	Coupling SmartQIC 08US	Ordering No.	Size		Connection type	Nipple NIP 08US	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	4221 0030 00	6.3	1/4	<b>H – Hose</b> 	H06	4221 0031 00	6.3	1/4
	H08	4221 0030 01	8	5/16		H08	4221 0031 01	8	5/16
	H10	4221 0030 02	10	3/8		H10	4221 0031 02	10	3/8
<b>M – Male thread</b> 	M10	4221 0030 03	3/8 BSP		<b>M – Male thread</b> 	M06	4221 0031 03	1/4 BSP	
	M15	4221 0030 04	1/2 BSP			M10	4221 0031 04	3/8 BSP	
	M10	4221 0030 05	3/8 NPT			M06	4221 0031 05	1/4 NPT	
	M15	4221 0030 06	1/2 NPT			M10	4221 0031 06	3/8 NPT	
<b>F – Female thread</b> 	F06	4221 0030 07	1/4 BSP		<b>F – Female thread</b> 	F06	4221 0031 07	1/4 BSP	
	F10	4221 0030 08	3/8 BSP			F10	4221 0031 08	3/8 BSP	
	F06	4221 0030 09	1/4 NPT			F06	4221 0031 09	1/4 NPT	
	F10	4221 0030 10	3/8 NPT			F10	4221 0031 10	3/8 NPT	

## QIC 08 AND NIP 08, 8 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 08	Ordering No.	Size		Connection type	Nipple NIP 08	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	8202 1300 04	6.3	1/4	<b>H – Hose</b> 	H06	8202 1205 18	6.3	1/4
	H08	8202 1300 12	8	5/16		H08	8202 1205 26	8	5/16
	H10	8202 1300 20	10	3/8		H10	8202 1205 34	10	3/8
<b>M – Male thread</b> 	M08	8202 1300 38	1/4 BSP		<b>M – Male thread</b> 	M06	8202 1205 42	1/8 BSP	
	M10	8202 1300 46	3/8 BSP			M08	8202 1205 59	1/4 BSP	
						M10	8202 1205 67	3/8 BSP	
<b>F – Female thread</b> 	F08	8202 1300 53	1/4 BSP		<b>F – Female thread</b> 	F08	8202 1205 83	1/4 BSP	
	F10	8202 1300 61	3/8 BSP			F10	8202 1205 91	3/8 BSP	



# Connectors and Couplings



## ErgoQIC 10US

### ISO 6150-B / US STANDARD

The ErgoQIC 10US is a full flow quick coupling with no air restriction inside the coupling suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 10US couplings will give the benefit of productivity and energy efficiency. It is interchangeable with US 3/8" standard nipples.

- Full flow coupling.
- Ergonomic design, small size and low weight.
- Strong and durable.
- Safety feature according to EN 983 / ISO 4414.
- Main market: North America, France, Norway and Spain.

## Technical Data

Max flow capacity	43 l/s (0.5 bar $\Delta P$ )
Economical air flow	27 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to 80°C

## SmartQIC 10US

### ISO 6150-B / US STANDARD

Safety coupling with venting connection, high flow and low pressure drop.

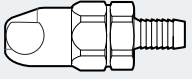

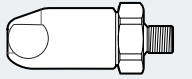
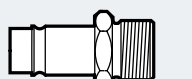
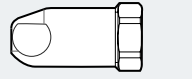
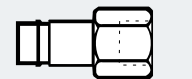
- High reliability with low pressure drop.
- Safety function with vented connection.
- High durability and easy handling.
- High air flow and increased productivity.
- Minimizes hose whip and injuries to operator.
- Long life time.
- Safety feature according to ISO-standard 4414 and EN 983.
- Main market: Benelux, France, Norway and North America.

## Technical Data

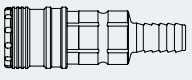
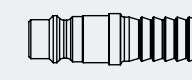
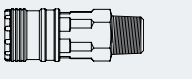
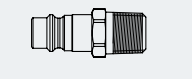
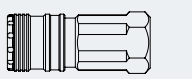
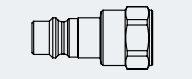
Max flow capacity	43 l/s (0.5 bar $\Delta P$ )
Economical air flow	39 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to +100°C

# Connectors and Couplings

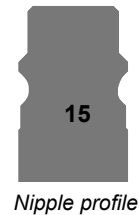
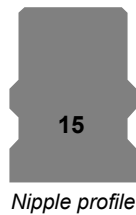
## ERGOQIC 10US AND NIP 10US, 27 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 10US	Ordering No.	Size		Connection type	Nipple NIP 10US	Ordering No.	Size		
			mm	in				mm	in	
<b>H – Hose</b> 	H08	8202 1107 01	8	5/16	<b>H – Hose</b> 	H08	8202 1210 70	8	5/16	
	H10	8202 1107 02	10	3/8		H10	8202 1210 71	10	3/8	
	H13	8202 1107 03	12.5	1/2		H13	8202 1210 72	12.5	1/2	
	H20	8202 1107 05	19	3/4		H16	8202 1210 73	16	5/8	
					H20	8202 1210 74	19	3/4		
<b>M – Male</b> 	M08	8202 1107 07	1/4 BSP		<b>M – Male</b> 	M08	8202 1210 75	1/4 BSP		
	M10	8202 1107 09	3/8 BSP			M10	8202 1210 76	3/8 BSP		
	M15	8202 1107 11	1/2 BSP			M15	8202 1210 77	1/2 BSP		
<b>F – Female</b> 	F08	8202 1107 13	1/4 BSP		<b>F – Female</b> 	F08	8202 1210 81	1/4 BSP		
	F10	8202 1107 15	3/8 BSP			F10	8202 1210 82	3/8 BSP		
	F15	8202 1107 17	1/2 BSP			F15	8202 1210 83	1/2 BSP		

## SMARTQIC 10US AND NIP-10US, 39 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling SmartQIC 10US	Ordering No.	Size		Connection type	Nipple NIP 10US	Ordering No.	Size		
			mm	in				mm	in	
<b>H – Hose</b> 	H10	4221 0050 00	10	3/2	<b>H – Hose</b> 	H08	4221 0051 00	8	5/16	
	H13	4221 0050 01	13	1/2		H10	4221 0051 01	10	3/8	
<b>M – Male thread</b> 	M10	4221 0050 02	3/8 BSPT		<b>M – Male thread</b> 	M06	4221 0051 03	1/4 BSP		
	M15	4221 0050 03	1/2 BSPT			M10	4221 0051 04	3/8 BSP		
	M10	4221 0050 04	3/8 NPT			M15	4221 0051 05	1/2 BSP		
	M15	4221 0050 05	1/2 NPT			M06	4221 0051 06	1/4 NPT		
<b>F – Female thread</b> 	F10	4221 0050 06	3/8 BSP		<b>F – Female thread</b> 	M10	4221 0051 07	3/8 NPT		
	F15	4221 0050 07	1/2 BSP			M15	4221 0051 08	1/2 NPT		
	F10	4221 0050 08	3/8 NPT			F06	4221 0051 09	1/4 BSP		
	F15	4221 0050 09	1/2 NPT			F10	4221 0051 10	3/8 BSP		
					F15	4221 0051 11	1/2 BSP			
					F06	4221 0051 12	1/4 NPT			
					F10	4221 0051 13	3/8 NPT			
					F15	4221 0051 14	1/2 NPT			

# Connectors and Couplings



## ErgoQIC 15US

### ISO 6150-B / US STANDARD

The ErgoQIC 15US is a full flow coupling with no air restriction inside the coupling suitable for large air consuming assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 15US will give the benefit of productivity and energy efficiency. It is interchangeable with US 1/2" standard nipples.

- Extreme full flow coupling.
- Strong and durable.
- Minimized connection force.
- Safety feature according to EN 983 / ISO 4414.
- Main market: North America, France, Norway and Spain.

## Technical Data

Max flow capacity	77 l/s (0.5 bar $\Delta$ P)
Economical air flow	52 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +80°C

## SmartQIC 15US

### ISO 6150-B / US STANDARD

Safety coupling with venting connection, high flow and low pressure drop.

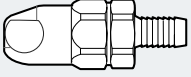

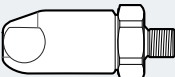
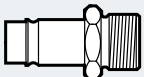
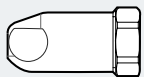
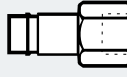
- High reliability with low pressure drop.
- Safety function with vented connection.
- High durability and easy handling.
- High air flow and increased productivity.
- Minimizes hose whip and injuries to operator.
- Long life time.
- Safety feature according to ISO-standard 4414 and EN 983.
- Main market: North America, France, Norway and Spain.

## Technical Data

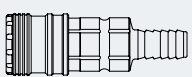
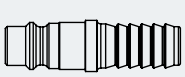
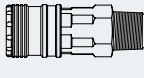
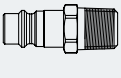
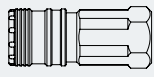
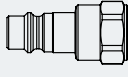
Max flow capacity	69 l/s (0.5 bar $\Delta$ P)
Economical air flow	64 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +100°C

# Connectors and Couplings

## ERGOQIC 15US AND NIP 15US, 52 L/S (recommended air flow at 6.3 bar pressure)

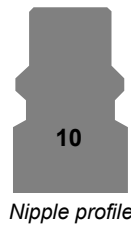
Connection type	Coupling ErgoQIC 15US	Ordering No.	Size		Connection type	Nipple NIP 15US	Ordering No.	Size		
			mm	in				mm	in	
<b>H – Hose</b> 	H10	8202 1108 02	10	3/8	<b>H – Hose</b> 	H10	8202 1215 40	10	3/8	
	H13	8202 1108 03	12.5	1/2		H13	8202 1215 41	12.5	1/2	
	H16	8202 1108 04	16	5/8		H16	8202 1215 42	16	5/8	
	H20	8202 1108 05	19	3/4		H20	8202 1215 43	19	3/4	
<b>M – Male</b> 	M10	8202 1108 09	3/8 BSP		<b>M – Male</b> 	M08	8202 1215 44	1/4 BSP		
	M15	8202 1108 11	1/2 BSP			M10	8202 1215 45	3/8 BSP		
<b>F – Female</b> 	F10	8202 1108 15	3/8 BSP			<b>F – Female</b> 	F10	8202 1215 52	3/8 BSP	
	F15	8202 1108 17	1/2 BSP				F15	8202 1215 53	1/2 BSP	

## SMARTQIC 15US AND NIP 15US, 8 L/S (recommended air flow at 6.3 bar pressure)

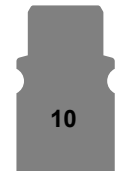
Connection type	Coupling SmartQIC 15US	Ordering No.	Size		Connection type	Nipple NIP 15US	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H13	4221 0040 00	13	1/2	<b>H – Hose</b> 	H10	4221 0041 00	10	3/8
	H20	4221 0040 02	19	3/4		H13	4221 0041 01	13	1/2
<b>M – Male thread</b> 	M10	4221 0040 03	3/8 NPT			<b>M – Male thread</b> 	M20	4221 0041 03	19
	M15	4221 0040 04	1/2 NPT		M10		4221 0041 04	3/8 NPT	
	M20	4221 0040 05	3/4 NPT		M15		4221 0041 05	1/2 NPT	
<b>F – Female thread</b> 	F10	4221 0040 06	3/8 NPT		<b>F – Female thread</b> 	M20	4221 0041 06	3/4 NPT	
	F15	4221 0040 07	1/2 NPT			F10	4221 0041 07	3/8 NPT	
	F20	4221 0040 08	3/4 NPT			F15	4221 0041 08	1/2 NPT	
						F20	4221 0041 09	3/4 NPT	



# Connectors and Couplings



Nipple profile



Nipple profile

## ErgoQIC 10AC

### ATLAS COPCO GLOBAL STANDARD

The ErgoQIC 10AC is a full flow quick coupling with no air restriction inside the coupling suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 10AC will give the benefit of productivity and energy efficiency.

- Full flow coupling.
- Ergonomic design, small size and low weight.
- Strong and durable.
- Safety feature according to EN 983 / ISO 4414.
- Main market: Nordic, Benelux and Italy.

## Technical Data

Max flow capacity	26 l/s (0.5 bar $\Delta P$ )
Economical air flow	17 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-10°C to +70°C

## QIC 10

### ATLAS COPCO GLOBAL STANDARD

The QIC 10 is a small quick coupling suitable for assembly tools and drills. The QIC 10 can withstand extremely rough handling in tough applications.

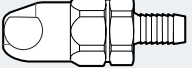

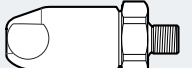
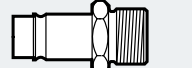
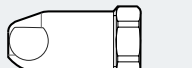
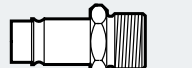

- High flow coupling.
- Strong and durable.
- One-hand operation.
- Main market: Europe and Australia.

## Technical Data



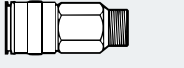
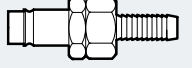

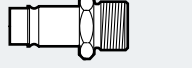

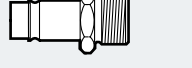

Max flow capacity	24 l/s (0.5 bar $\Delta P$ )
Economical air flow	15 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to +80°C

# Connectors and Couplings

## ERGOQIC 10AC AND NIP 10, 17 L/S (recommended air flow at 6.3 bar pressure)

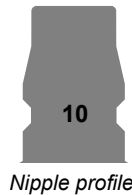
Connection type	Coupling ErgoQIC 10AC	Ordering No.	Size		Connection type	Nipple NIP 10	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H08	8202 1109 01	8	5/16	<b>H – Hose</b> 	H06	8202 1202 11	6.3	3/8
	H10	8202 1109 02	10	3/8		H08	8202 1202 94	8	1/2
	H13	8202 1109 03	12.5	1/2		H10	8202 1202 29	10	5/8
						H13	8202 1202 34	12.5	3/4
<b>M – Male thread</b> 	M08	8202 1109 05	1/4	BSP	<b>M – Male thread</b> 	M06	8202 1202 37	1/8	BSP
	M10	8202 1109 06	3/8	BSP		M08	8202 1202 45	1/4	BSP
	M15	8202 1109 07	1/2	BSP		M10	8202 1202 52	3/8	BSP
<b>F – Female</b> 	F08	8202 1109 09	1/4	BSP	<b>MT – Male taper thread</b> 	MT08	8202 1202 60	1/4	BSPT
	F10	8202 1109 10	3/8	BSP		MT10	8202 1202 78	3/8	BSPT
	F15	8202 1109 11	1/2	BSP		MT15	8202 1203 02	1/2	BSPT
					<b>F – Female</b> 	F08	8202 1202 86	1/4	BSP
				F10		8202 1202 87	3/8	BSP	

## QIC 10 AND NIP 10, 15 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 10	Ordering No.	Size		Connection type	Nipple NIP 10	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	8202 1302 02	6.3	1/4	<b>H – Hose</b> 	H06	8202 1202 11	6.3	1/4
	H08	8202 1302 10	8	5/16		H08	8202 1202 94	8	5/16
	H10	8202 1302 28	10	3/8		H10	8202 1202 29	10	3/8
	H13	8202 1302 34	12.5	1/2		H13	8202 1202 34	12.5	1/2
<b>M – Male thread</b> 	M08	8202 1302 36	1/4	BSP	<b>SH – Safety Hose<sup>a</sup></b> 	SH06	8202 1203 10	6.3	1/4
	M10	8202 1302 44	3/8	BSP		SH08	8202 1203 36	8	5/16
						SH10	8202 1203 28	10	3/8
<b>MT – Male taper thread</b> 	MT15	8202 1302 51	1/2	BSPT	<b>M – Male thread</b> 	M06	8202 1202 37	1/8	BSP
						M08	8202 1202 45	1/4	BSP
						M10	8202 1202 52	3/8	BSP
<b>F – Female</b> 	F08	8202 1302 69	1/4	BSP	<b>MT – Male taper thread</b> 	MT08	8202 1202 60	1/4	BSPT
						MT10	8202 1202 78	3/8	BSPT
						MT15	8202 1203 02	1/2	BSPT
					<b>F – Female</b> 	F08	8202 1202 86	1/4	BSP
				F10		8202 1202 87	3/8	BSP	

<sup>a</sup> For hoses longer than 3 meters.

# Connectors and Couplings



Nipple profile



Nipple profile

## ErgoQIC 10A

### ASIA STANDARD 7.5 MM

The ErgoQIC 10 ASIA is a full flow coupling with no air restriction inside the coupling. It is suitable for assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 10 ASIA will give the benefits of productivity and energy efficiency.

- Extreme full flow coupling.
- Strong and durable.
- Minimized connection force.
- Safety feature according to EN 983 / ISO 4414.
- Main market: Asia, Australia, Italy and South America.

## Technical Data

Max flow capacity	35 l/s (0.5 bar $\Delta P$ )
Economical air flow	22 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-10°C to +70°C

## SmartQIC 10A

### ASIA STANDARD 7.5 MM

Safety coupling with venting connection, high flow and low pressure drop.

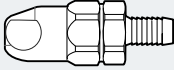
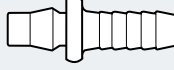

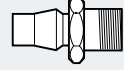


- High reliability with low pressure drop.
- Safety function with vented connections.
- High durability and easy handling.
- High air flow and increased productivity.
- Minimizes hose whip and injuries to operator.
- Long life time.
- Safety feature according to ISO-standard 4414 and EN 983.
- Main market: Asia, Australia, Italy and South America.

## Technical Data

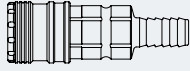
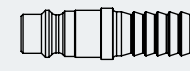
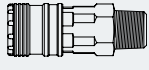
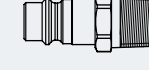

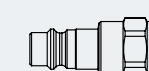
Max flow capacity	33 l/s (0.5 bar $\Delta P$ )
Economical air flow	32 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to +100°C

# Connectors and Couplings

## ERGOQIC 10 A AND NIP 10 A, 22 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 10 A	Ordering No.	Size		Connection type	Nipple NIP 10 A	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	8202 1104 00	6.3	1/4	<b>H – Hose</b> 	H06	8202 1202 15	6.3	1/4
	H08	8202 1104 01	8	5/16		H08	8202 1202 16	8	5/16
	H10	8202 1104 02	10	3/8		H10	8202 1202 17	10	3/8
	H13	8202 1104 03	12.5	1/2		H13	8202 1202 18	12.5	1/2
<b>MT – Male taper thread</b> 	MT08	8202 1104 05	1/4 BSPT		<b>MT – Male taper thread</b> 	MT06	8202 1202 19	1/8 BSPT	
	MT10	8202 1104 06	3/8 BSPT			MT08	8202 1202 20	1/4 BSPT	
	MT15	8202 1104 07	1/2 BSPT			MT10	8202 1202 21	3/8 BSPT	
<b>FT – Female taper thread</b> 	FT08	8202 1104 09	1/4 BSPT		<b>FT – Female taper thread</b> 	FT08	8202 1202 23	1/4 BSPT	
	FT10	8202 1104 10	3/8 BSPT			FT10	8202 1202 24	3/8 BSPT	
	FT15	8202 1104 11	1/2 BSPT			FT15	8202 1202 25	1/2 BSPT	

## SMARTQIC 10A AND NIP 10A, 32 L/S (recommended air flow at 6.3 bar pressure)

Connection type	Coupling SmartQIC 10A	Ordering No.	Size		Connection type	Nipple NIP 10A	Ordering No.	Size	
			mm	in				mm	in
<b>H – Hose</b> 	H06	4221 0060 00	6.3	1/4	<b>H – Hose</b> 	H06	4221 0061 00	6.3	1/4
	H08	4221 0060 01	7	9/32		H08	4221 0061 01	7	9/32
	H10	4221 0060 02	10	3/8		H10	4221 0061 02	10	3/8
<b>M – Male thread</b> 	M06	4221 0060 03	1/4 R, BSP		<b>M – Male thread</b> 	M06	4221 0061 04	1/4 R, BSP	
	M10	4221 0060 04	3/8 R, BSP			M10	4221 0061 05	3/8 R, BSP	
	M15	4221 0060 05	1/2 R, BSP			M15	4221 0061 06	1/2 R, BSP	
<b>F – Female thread</b> 	F06	4221 0060 06	1/4 Rc, BSP		<b>F – Female thread</b> 	F06	4221 0061 07	1/4 Rc, BSP	
	F10	4221 0060 07	3/8 Rc, BSP			F10	4221 0061 08	3/8 Rc, BSP	
	F15	4221 0060 08	1/2 Rc, BSP			F15	4221 0061 09	1/2 Rc, BSP	



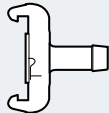
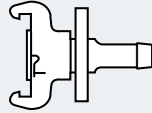
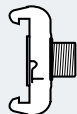
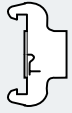
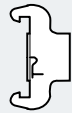

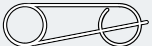
# Claw Couplings



CLAW couplings are made from zinc-plated, dropforged, hardened steel, ensuring long life even under difficult conditions. The coupling head is the same for all hose sizes and can therefore be freely combined. The recommended maximum working pressure is 10 bar.

## Technical Data

Economical air flow 280 l/s (0.2 bar  $\Delta P$ )  
 Max working pressure 16 bar  
 Temperature range -10°C to +80°C

Connection type	Coupling CLAW	Ordering No.	Size		Bore B, mm
			mm	in	
<b>H</b> – Hose 	H06	9000 0308 00	6.3	1/4	5.0
	H10	9000 0309 00	10	3/8	8.0
	H13	9000 0310 00	12.5	1/2	10.5
	H16	9000 0311 00	16	5/8	13.5
	H20	9000 0312 00	19	3/4	17.0
	H25	9000 0313 00	25	1	22.0
<b>LNH</b> – Lock nut, Hose 	LNH10	9000 0260 00	10	3/8	8.0
	LNH13	9000 0261 00	12.5	1/2	10.5
	LNH16	9000 0262 00	16	5/8	13.5
	LNH20	9000 0263 00	19	3/4	17.2
	LNH25	9000 0264 00	25	1	22.0
<b>M</b> – Male thread 	M10	9000 0300 00		3/8 BSP	11.2
	M15	9000 0301 00		1/2 BSP	14.8
	M20	9000 0302 00		3/4 BSP	19.0
	M25	9000 0303 00		1 BSP	25.5
<b>F</b> – Female thread 	F10	9000 0304 00		3/8 BSP	15.0
	F15	9000 0305 00		1/2 BSP	18.6
	F20	9000 0306 00		3/4 BSP	24.0
	F25	9000 0307 00		1 BSP	25.0
Protection cover for CLAW couplings		9000 0314 00			
Extra packing for CLAW couplings		For type H, M and F 9000 0000 00 (+80°C), 9000 0000 01 (+200°C) <sup>a</sup> For LNH10, -13 and -16 9000 0015 00 For LNH20 and -25 9000 0268 00 (+80°C), 9000 0319 00 (+200°C) <sup>a</sup>			
Safety lock spring		3176 8640 90	25 pieces		

<sup>a</sup> Viton-green.



BAL1A

BAL

Suitable for air, water and many other liquids and gases due to the choice of material.

### BAL – with nitrile rubber seals

Can be used in all settings between fully open and fully closed. The balls and the seals can be replaced without the body being removed from the piping.

### BAL-1A – with teflon seals

Intended for operating either fully open or fully closed.

## Technical Data

### BAL

Maximum working pressure: 16 bar.

Working temperature range: -20°C to +90°C.

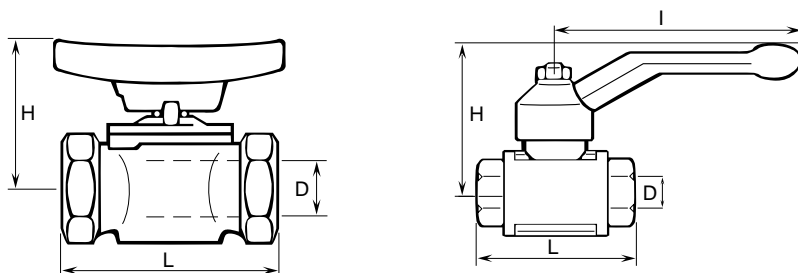
### BAL-1A

Maximum working pressure: 16 bar (BAL-1A 40 and 50: max. 16 bar up to +100°C).

Working temperature range: -30°C to +200°C. (BAL-1A 40 and 50: at +200°C max. working pressure is reduced to 8 bar).

Model	Connection thread in BSP	Bore D mm	L mm	H mm	I mm	Ordering No.
BAL 08	1/4	9.5	50	41	-	8202 0301 05
BAL 10	3/8	9.5	50	41	-	8202 0302 04
BAL 15	1/2	12.5	60	43	-	8202 0303 03
BAL 20	3/4	19	75	55	-	8202 0304 02
BAL 25	1	24.5	90	64	-	8202 0305 01
BAL-1A 08	1/4	8	43	44	73	8202 0306 03
BAL-1A 10	3/8	10	50	47	73	8202 0306 11
BAL-1A 15	1/2	15	61	53	94	8202 0306 29
BAL-1A 20	3/4	20	70	57	94	8202 0306 37
BAL-1A 25	1	25	83	67.5	122	8202 0306 45
BAL-1A 32	1 1/4	32	100	83	150	8202 0306 52
BAL-1A 40	1 1/2	38	107	87	150	8202 0306 60
BAL-1A 50	2	50	129	103	193	8202 0306 78

## Dimensions



# Swivel Connectors

## MultiFlex swivel Multi-directional connector

**The MultiFlex swivel** is an ingenious multi-directional connector. Connect your tool and the hose will stay in the ideal position however much you and the tool move around.

The MultiFlex bends and rotates 360° in all directions while the hose stays straight. The hose feels almost weightless and hose wear is reduced. Safety factor 4 on MultiFlex couplings. Maximum recommended working pressure is 10 bar.



Model	Max rec. air flow <sup>a</sup>		Thread		Weight g	Length mm	Dia mm	Ordering No.
	l/s	cfm	Inlet female in	Outlet male in				
<b>Standard</b>								
MultiFlex 1/8" BSP	12	25	1/8	1/8	73	66.2	24	8202 1350 18
MultiFlex 1/4" BSP	12	25	1/4	1/4	73	66.2	24	8202 1350 20
MultiFlex 3/8" BSP	32	68	3/8	3/8	130	80.6	29.5	8202 1350 22
MultiFlex 1/2" BSP	32	68	1/2	1/2	125	80.6	29.5	8202 1350 24
<b>Protective rubber cover</b>								
MultiFlex 1/8" BSP	12	25	1/8	1/8	76	66.2	27	8202 1350 40
MultiFlex 1/4" BSP	12	25	1/4	1/4	76	66.2	27	8202 1350 41
MultiFlex 3/8" BSP	32	68	3/8	3/8	130	80.6	29.5	8202 1350 42
<b>High air flow</b>								
MultiFlex 1/2" BSP	54	114	1/2	1/2	326	98.3	39	8202 1350 60



## Hose connection Male thread – hose nipple

Thread in	Hose size		Ordering No.
	mm	in	
1/8 BSP	3.2	1/8	9000 0523 00
1/8 BSPT	5	3/16	4010 0031 00
1/8 BSPT	6.3	1/4	9000 0240 00
1/4 BSP	3.2	1/8	9000 0524 00
1/4 BSPT	6.3	1/4	9000 0241 00
1/4 BSPT	8	5/16	9090 1715 00
1/4 BSPT	10	3/8	9000 0247 00
3/8 BSPT	10	3/8	9000 0242 00
3/8 BSPT	12.5	1/2	9000 0248 00
1/2 BSPT	12.5	1/2	9000 0243 00
1/2 BSPT	16	5/8	9000 0244 00
1/2 BSP	20	3/4	4150 0429 00
3/4 BSPT	20	3/4	9000 0245 00
1 BSPT	25	1	9000 0246 00



## Simple pressure clamps for PVC HOSES

For CABLAIR	For PVC	One-lugged steel clamp mm	Ordering No.
–	–	5.2- 6.2	0347 0122 18
–	–	5.9- 7.0	0347 0122 19
–	03	7.0- 8.5	0347 0122 05
06	05	8.5-10.0	0347 0122 06
08	06	9.8-11.8	0347 0122 07
–	08	11.3-13.3	0347 0122 08
10	–	12.8-14.8	0347 0122 09
–	10	14.6-16.8	0347 0122 10
13	–	16.5-18.8	0347 0122 11
–	13	18.0-20.3	0347 0122 12
16	–	20.2-22.8	0347 0122 13
–	–	22.0-24.8	0347 0122 14
20	–	23.3-26.3	0347 0122 15
–	–	26.5-30.0	0347 0122 16
25	–	29.8-33.1	0347 0122 22



## Gaskets

For couplings with male parallel thread	Fiber gasket between material and nipple Ordering No.
M5	0657 5710 00
1/8 BSP	0657 5742 00
1/4 BSP	0657 5764 00
3/8 BSP	0657 5785 00
1/2 BSP	0653 0500 01
3/4 BSP	0657 5823 00
1 BSP	0657 5830 00



## Medium pressure clamps for PVC HOSES

For CABLAIR	For PVC, POLUR	Medium clamp worm drive mm	Ordering No.
–	–	8.0-14.0	0347 6102 00
–	08	11.0-17.0	0347 6103 00
–	10	11.0-17.0	0347 6103 00
–	–	13.0-20.0	0347 6104 00
16	13	15.0-24.0	0347 6105 00
20	16	19.0-28.0	0347 6106 00
–	20	22.0-32.0	0347 6107 00
25	25	26.0-38.0	0347 6109 00
–	–	32.0-44.0	0347 6111 00
–	–	38.0-50.0	0347 6112 00
–	–	50.0-65.0	0347 6113 00



## Reducing nipple in brass

Female thread in	Male thread in	Ordering No.
1/4 BSP	1/8 BSP	9721 4000 94
3/8 BSP	1/4 BSP	9721 4000 92
1/2 BSP	3/8 BSP	9721 4000 93



## Swivels

Air inlet	Air outlet Male BSP	Max Swivel bend from centre line	Ordering No.
5/16" hose	1/4	30°	4210 3134 80

Recommended flow max 10 l/s

## Medium pressure clamps for RUBBER HOSES

For TURBO	For RUBAIR	Medium clamp worm drive mm	Ordering No.
–	06	11.0-17.0	0347 6103 00
13	10	13.0-20.0	0347 6104 00
16	13	15.0-24.0	0347 6105 00
–	16	19.0-28.0	0347 6106 00
20	–	22.0-32.0	0347 6107 00
–	20	26.0-38.0	0347 6109 00





# Fittings

## Heavy-duty pressure clamps for RUBBER HOSES



For TURBO	For RUBAIR	Heavy-duty clamp mm	Ordering No.
–	–	22.0-25.0	9000 0194 00
20	16	25.0-28.0	9000 0195 00
–	20	29.0-32.0	9000 0196 00
–	25	34.0-38.0	9000 0197 00

## Bushing Male thread – female thread



Male thread in	Female thread in	Ordering No.
1/4 BSP	1/8 BSP	9090 0799 00
3/8 BSP	1/4 BSP	9090 0798 00
1/2 BSP	1/4 BSP	9090 1469 00
1/2 BSP	3/8 BSP	9090 0797 00
3/4 BSP	1/2 BSP	9090 0796 00
1 BSPT	3/4 BSP	9090 0795 00

## Double connection Male taper thread – male taper thread



From thread in	To thread in	Ordering No.
1/8 BSPT	1/8 BSPT	9090 0100 00
1/8 BSPT	1/4 BSPT	9090 0110 00
1/4 BSPT	1/4 BSPT	9090 0120 00
1/4 BSPT	3/8 BSPT	9090 0130 00
3/8 BSPT	3/8 BSPT	9090 0140 00
3/8 BSPT	1/2 BSPT	9090 0150 00
1/2 BSPT	1/2 BSPT	9090 0160 00
1/2 BSPT	3/4 BSPT	9090 0170 00
3/4 BSPT	3/4 BSPT	9090 0180 00
3/4 BSPT	1 BSPT	9090 0190 00
1 BSPT	1 BSPT	9090 0200 00

## Double adjustable connection Male thread – male thread



From thread in	To thread in	Ordering No.
1/2 BSP	1/2 BSP	9090 0806 00

## Sealing rings for double adjustable connection



For coupling with male thread in	Spare rubber sealing ring for adjustable connections Ordering No.
1/2 BSP	9090 0884 00
1 BSP	9090 0886 00

## Hose connection with clamp nut and spring guard



### 1 Clamp nut, brass

Hose diameter Outside/Inside mm	Male thread in	Ordering No.
10/8	1/4 BSP	9721 4002 89
10/8	3/8 BSP	9721 4002 90
12/9	1/4 BSP	9721 4000 86
12/10	3/8 BSP	9721 4000 88
15/12.5	1/2 BSP	9721 4000 89

Male threaded hose nipple with clamp nut should be used with female threaded quick couplings.

### 2 Spring guard in steel

Hose diameter Outside/Inside mm	Ordering No.
10/8	9721 4002 88
12/10	9721 4000 91
15/12	9721 4002 85

The spring guard should be used with the clamp nut above.

## Manifolds 3/8 inlet on each side, 1/4 outlets for couplings



Thread		Number of outlets	Ordering No.
Inlet in	Outlet in		
3/8 BSP	1/4 BSP	4	9090 0201 00
3/8 BSP	1/4 BSP	5	9090 0201 01
3/8 BSP	1/4 BSP	6	9090 0201 02

## Manifolds 3/8 inlet on each side, 1/4 outlet on both sides for couplings



Thread		Number of outlets	Ordering No.
Inlet in	Outlet in		
3/8 BSP	1/4 BSP	4	9090 0201 10
3/8 BSP	1/4 BSP	6	9090 0201 11
3/8 BSP	1/4 BSP	8	9090 0201 12
3/8 BSP	1/4 BSP	10	9090 0201 13



## Y-connections 2 female outlets and 1 male inlet

Model	Female thread in	Male thread in	Ordering No.
F/F/M08	1/4 BSP	1/4 BSP	9090 0201 86
F/F/M10	3/8 BSP	3/8 BSP	9090 0201 87
F/F/M15	1/2 BSP	1/2 BSP	9090 0201 85



## Pipe tee

Model	Female threads in	Ordering No.
F08	1/4 BSP	9090 0201 51
F10	3/8 BSP	9090 0201 53
F15	1/2 BSP	9090 0201 50
F20	3/4 BSP	9090 0201 52
F25	1 BSP	9090 0201 54



## Pipe cross

Model	Female thread in	Ordering No.
F08	1/4 BSP	9090 0201 21
F10	3/8 BSP	9090 0201 22
F15	1/2 BSP	9090 0201 20



## Branch tee 2 female outlets and 1 male inlet

Model	Female thread in	Male thread in	Ordering No.
2xF08 1xM08	1/4 BSP	1/4 BSP	9090 0201 61
2xF10 1xM10	3/8 BSP	3/8 BSP	9090 0201 63
2xF15 1xM15	1/2 BSP	1/2 BSP	9090 0201 60
2xF20 1xM20	3/4 BSP	3/4 BSP	9090 0201 62
2xF25 1xM25	1 BSP	1 BSP	9090 0201 64



## Cross 3 female threads and 1 male thread

Model	Female thread in	Male thread in	Ordering No.
3xF08 1xM08	1/4 BSP	1/4 BSP	9090 0201 31
3xF10 1xM10	3/8 BSP	3/8 BSP	9090 0201 32
3xF15 1xM15	1/2 BSP	1/2 BSP	9090 0201 30



## Run tee 2 female outlets and 1 male inlet

Model	Female thread in	Male thread in	Ordering No.
F08/M08/F08	1/4 BSP	1/4 BSP	9090 0201 71
F10/M10/F10	3/8 BSP	3/8 BSP	9090 0201 72
F15/M15/F15	1/2 BSP	1/2 BSP	9090 0201 70



## Pipe elbow

Model	Female thread in	Ordering No.
F08	1/4 BSP	9090 0201 40
F10	3/8 BSP	9090 0201 43
F15	1/2 BSP	9090 0201 41
F20	3/4 BSP	9090 0201 42
F25	1 BSP	9090 0201 44

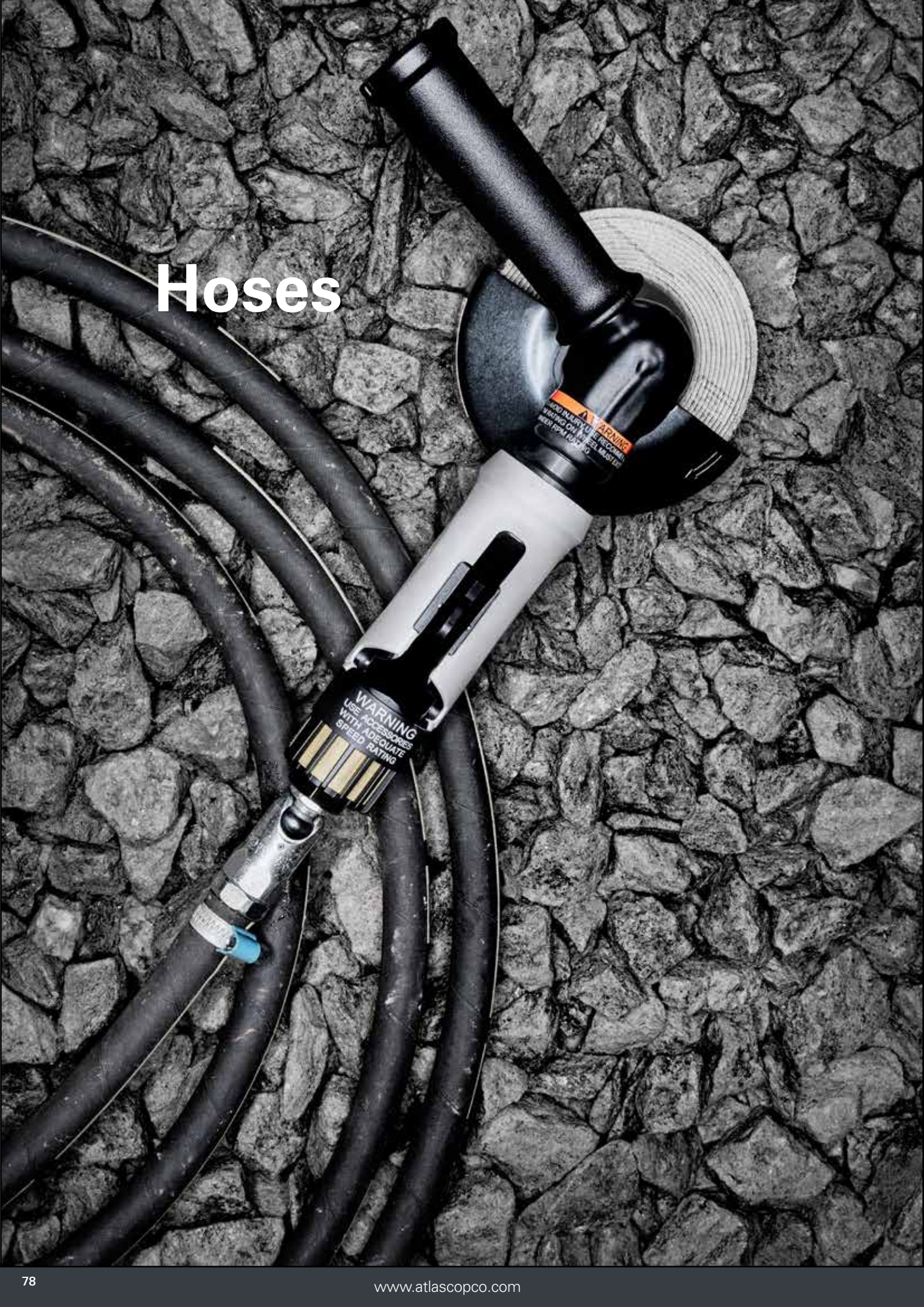


## Hex head plug

Model	Male thread in	Ordering No.
M08	1/4 BSP	9090 0201 81
M10	3/8 BSP	9090 0201 84
M15	1/2 BSP	9090 0201 80
M20	3/4 BSP	9090 0201 83
M25	1 BSP	9090 0201 82



# Hoses





# Get the best **air flow!**

Atlas Copco Tools has several different hoses covering all types of needs for pneumatic hand tools.

The diagram helps you to choose the right hose according to the air consumption of the tool and the length of the hose. The purpose of the diagram is to ensure that the pressure drop in the hoses does not exceed 0.2 bar.

## How to find correct internal hose diameter:

1. Find the required air consumption for the tool at 6 bar and the required hose length.
2. Use the required hose length and air flow to find required hose size.

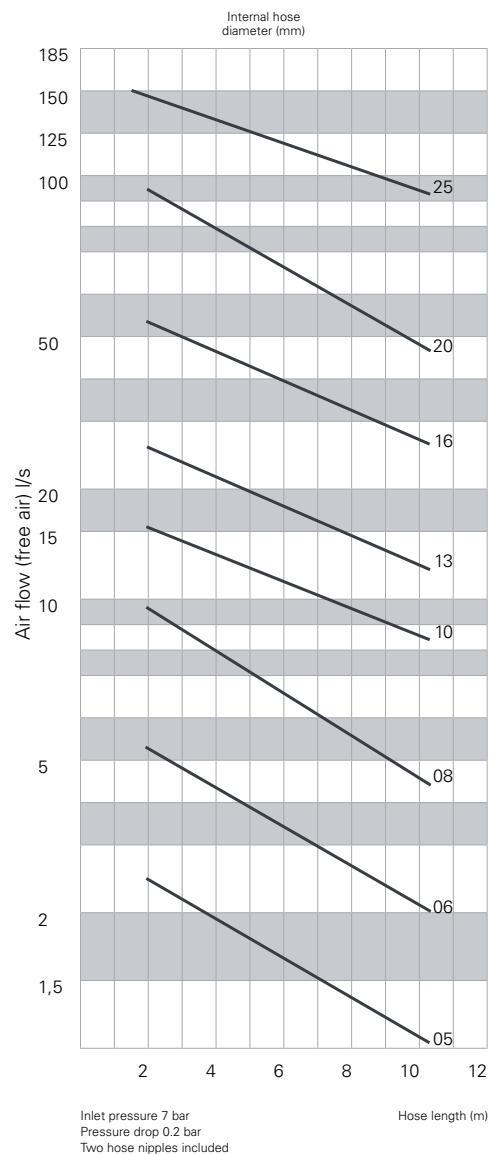
## Example

The tool has an air consumption of 10 l/s and the application requires a hose length of 7 m. These two values have a cross point slightly under the 10 mm size hose (7 m of 10 mm hose gives a value of approximately 11 l/s). Therefore a 10 mm hose will be suitable.

- Covering all types of needs for pneumatic tools for various environments
- Choose between many types of rubber or PVC hoses.
- Rubber hoses are grinding and welding spatter resistant.
- Available as pre-mounted hose kits.



**Pressure drop diagram for hoses**





# Rubber Hoses

## TURBO

### Super-light flexible rubber hose

The Turbo hose has been developed for both indoor and outdoor use. The hose weighs 30–40% less than conventional rubber hoses. Turbo hose is oil resistant.

- Extremely low weight.
- Soft and flexible.
- Antistatic.
- Grinding and welding spatter resistant.
- Working temperature -30°C to +70°C.



Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup>		Max rec air flow <sup>b</sup>		Lenght of coil		Weight of coil		Ordering No.
	mm	in		bar	psi	l/s	cfm	m	ft	kg	lbs	
TURBO 13	13	1/2	19	20	290	21	44,4	20	65	3.9	8.6	9093 0057 91
TURBO 16	16	5/8	22.8	20	290	43	91	20	65	4.8	10.6	9093 0057 31
TURBO 20	20	3/4	27.5	20	290	75	159	20	65	5.4	11.9	9093 0057 61
TURBO 13	13	1/2 <sup>b</sup>	19	20	290	21	44.5	30	98	5.9	13	9093 0057 93
TURBO 16	16	5/8	22.8	20	290	43	91	30	98	7.2	15.9	9093 0057 33
TURBO 20	20	3/4	27.5	20	290	75	159	30	98	8.1	17.9	9093 0057 62
TURBO 13	13	1/2	19	20	290	21	44.5	50	164	9	19.8	9093 0057 95

<sup>a</sup> With a safety factor of 3 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.

## RUBBER

### Durable, reinforced, extra thick, heavy duty rubber hose

Withstands rough handling and is suitable for the most demanding industrial tasks. The inner lining is black EPDM rubber and the hose is conductive to dissipate static electricity. Reinforced with synthetic textile yarns that provide high tensile strength.

- Durable.
- Grinding and welding spatter resistant.
- Working temperature -25°C to +70°C.



Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per		Ordering No.
	mm	in				20 m coil kg	30 m coil kg	
RUBBER	6.3	1/4	12	16	4	30	3.5	9030 2036 00
RUBBER	10	3/8	17	16	13	30	6.9	9030 2037 00
RUBBER	12.5	1/2	22	16	21	30	12.3	9030 2038 00
RUBBER	16	5/8	25	16	43	30	13.9	9030 2039 00
RUBBER	20	3/4	30	16	75	30	19.3	9030 2040 00
RUBBER	25	1	36	16	125	30	24.0	9030 2041 00

<sup>a</sup> With a safety factor of 3 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.

## RUBAIR

### Durable reinforced heavy duty rubber hose

Rubair hose is double reinforced to fulfil all general heavy duty demands and is recommended for indoor and outdoor use. Rubair hose is oil resistant.

- Durable.
- Antistatic.
- Grinding and welding spatter resistant.
- Working temperature -20°C to +80°C.



Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 20 m coli kg	Ordering No.
	mm	in					
RUBAIR 10	10	3/8	16.0	16	13	3.6	8202 0402 10
RUBAIR 13	12.5	1/2	19.1	16	21	4.7	8202 0403 13
RUBAIR 16	16	5/8	23.0	16	43	6.1	8202 0404 16
RUBAIR 20	20	3/4	26.6	16	75	7.8	8202 0405 20

<sup>a</sup> With a safety factor of 4 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.

# PVC Hoses

## CABLAIR

### Super-light flexible PVC-hose

Cablair is made of high-strength and high performance PVC compound. The Cablair hose weighs 30–50% less, is much softer and more flexible than conventional PVC hoses.

- Low weight.
- Extremely soft and flexible.
- Silicone free.
- Ergonomic.
- Working temp. -15°C to +60°C.



Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coli kg	Ordering No.
	mm	in					
CABLAIR 06	6	1/4	8.5	14	4	1.2	9093 0035 11
CABLAIR 08	8	1/3	11	14	7.5	1.7	9093 0035 41
CABLAIR 10	10	2/5	13	12	13	2.1	9093 0035 71
CABLAIR 13	12.5	1/2	16	11	21	3.0	9093 0036 01
CABLAIR 16	16	5/8	21	8	43	5.4	9093 0036 31
CABLAIR 20	19	3/4	24	8	75	5.8	9093 0036 61
CABLAIR 25	25	1	31.5	7	125	10.4	9093 0036 91

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m.

## CABLAIR ESD

### Extra flexible antistatic air hose

Cablair ESD is designed specifically for the computer manufacturing industry. The hose possesses properties which enable ESDs (electrostatic sensitive devices) to be handled in a protected area with a low risk level, as a result of electrostatic discharge. The connection device must be earthed/grounded.

- Extra flexible.
- Antistatic.
- Silicone free.
- Testing in accordance with BS ISO 2878:2005.
- Working temp. -15°C to +60°C.



Model	Hose inside dia		Hose outside dia		Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coli kg	Ordering No.
	mm	in	mm	in				
CABLAIR ESD 06	6	1/4	11	7/16	10	4	2.34	8202 0501 06
CABLAIR ESD 08	8	5/16	12	1/2	9	7.5	2.56	8202 0501 08
CABLAIR ESD 10	10	3/8	14	9/16	8	13	2.71	8202 0501 10
CABLAIR ESD 13	13	1/2	18	23/32	7	21	4.41	8202 0501 13

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

## PVC



### Hose for heavy-duty applications

PVC hose has high resistance to abrasion, which makes it the ideal hose for tough working environments. It is mainly recommended for indoor use.

- Long service life.
- Pliable.
- Transparent.
- Working temperature -15°C to +60°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coil kg	Ordering No.
	mm	in					
PVC 03	3.2	1/8	7	20	0.7	1.4	9093 0037 21
PVC 05	5	3/16	9	10	2.1	1.9	9093 0037 51
PVC 06	6.3	1/4	11	10	4	2.5	9093 0037 81
PVC 08	8	5/16	12	10	7.5	2.9	9093 0038 11
PVC 10	10	3/8	14	14	13	3.7	9093 0038 41
PVC 13	12.5	1/2	18	13	21	5.9	9093 0038 71
PVC 16	16	5/8	22	12	43	7.2	9093 0039 01
PVC 20	19	3/4	25	10	75	8.3	9093 0039 31
PVC 25	25	1	32	10	125	12.5	9093 0039 61

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m.

## POLUR

### High resistance polyurethane hose

Polur hose is the most environmentally friendly solution. It has high resistance to abrasion and it is oil resistant. Polur hose has a much longer lifetime than PVC hoses. Polur is ideal in tough working conditions due to its flexibility, even at minus degrees. Polur is recommended for indoor and outdoor use.



- Oil resistant.
- Flexible.
- Long service life.
- Working temperature -30°C to +60°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 25 m coil kg	Ordering No.
	mm	in					
POLUR 08	8	5/16	12	20	7.5	2.2	8202 0601 08
POLUR 10	10	3/8	14	16	13	2.5	8202 0602 10
POLUR 13	13	1/2	18	13	21	4.0	8202 0603 13

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.



# Spiral Hoses

## SPI

### Elastic hose for vertical and horizontal applications

SPI elastic spiral hose is ideal for air tools used at varying distances from a fixed air outlet. It is easily stretched and retracts immediately when released. When used with hand tools, its self-storage principle ensures that the hose is kept off the floor and out of the way of the operator. The SPI 1 and SPI 2 have ball bearing swivels fitted on the long hose side to allow 360° rotation. All spiral hoses, except the SPI4, are fitted with plastic spring guard. SPI is the ideal hose in combination with a balancer.

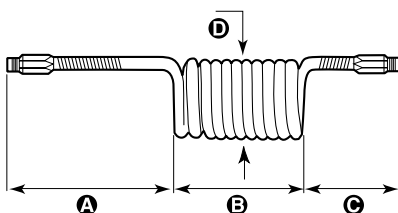
- Self-retractable.
- Light and flexible.
- Strong and durable.
- Tubing material: Polyurethane (100% PUR).
- Hardness: Shore A 98 +2.
- Colour: Blue.
- Working pressure: 8 bar at 23°C.
- Burst pressure: 25 bar at 23°C.
- Temperature range: -40°C to +70°C.



Model	Hose inside dia mm	Hose outside dia mm	Max. rec. air flow <sup>a</sup> l/s	Working range m	Length			Max spiral dia (D) mm	Male threads in BSP	Ordering No.
					(A) mm	(B) mm	(C) mm			
SPI 1SPSW-S	6.5	10	7	2	500	165	150	55	1/4	8202 0508 71
SPI 1SPSW-M	6.5	10	5	4	500	330	150	55	1/4	8202 0508 73
SPI 2SPSW-S	8	12	13	2	500	130	150	70	3/8	8202 0508 75
SPI 2SPSW-M	8	12	10	4	500	270	150	70	3/8	8202 0508 77
SPI 2SPSW-L	8	12	9	6	500	435	150	70	3/8	8202 0508 79
SPI 2SPSW-XL	8	12	6	8	500	600	150	70	3/8	8202 0508 81
SPI 3SP-S	11	16	25	2	500	185	150	98	3/8	8202 0508 82
SPI 3SP-M	11	16	22	4	500	250	150	98	3/8	8202 0508 84
SPI 3SP-L	11	16	17	6	500	390	150	98	3/8	8202 0508 86
SPI 3SP-XL	11	16	13	8	500	550	150	98	3/8	8202 0508 88
SPI 4SP-XXL	13	19	21	10	500	850	500	115	3/8	8202 0508 90

<sup>a</sup> At inlet pressure 6 bar and pressure drop 0.5 bar.

## Dimensions





Productivity kits boost productivity, extend tool lifetime and ensure minimum pressure drop. Each productivity kit includes a ball valve, air preparation unit, and the couplings, hose and nipples needed for correct and safe installation of the tool.

Just choose the correct productivity kit based on the air flow requirement of the tool and whether the tool needs lubrication or not. You'll be surprised how much the productivity kit improves the performance of the tool.

## Productivity kits for screwdrivers, drills and grinders

Model	Economical air flow	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small screwdrivers and small drills with 1/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C06-1/8	4 l/s	6 l/s	Cablair 6 mm	ErgoQIC 08	Yes	8202 0850 10
MIDI Optimizer F/R EQ08-C06-1/8	4 l/s	6 l/s	Cablair 6 mm	ErgoQIC 08	No	8202 0850 19
<b>For screwdrivers and drills with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C08	7.5 l/s	9 l/s	Cablair 8 mm	ErgoQIC 08	Yes	8202 0850 00
MIDI Optimizer F/R EQ08-C08	7.5 l/s	9 l/s	Cablair 8 mm	ErgoQIC 08	No	8202 0850 01
<b>For 1/2" drills and small nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 07
<b>For 1/2" small nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 03
MIDI Optimizer F/RD EQ10-R10	13 l/s	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 16
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>						
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	23 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>						
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	23 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
<b>For drills and nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13	21 l/s	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 02
<b>For drills and nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13-1/4	21 l/s	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11
<b>For grinders and nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
<b>For grinders and nutrunners with 1/2" BSP air inlet</b>						
MIDI Optimizer F/R EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
<b>For grinders with 1/2" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T16	31 l/s	40 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12
<b>For large Turbo grinders with 1/2" BSP air inlet</b>						
MAXI F/R C-T16	43 l/s	60 l/s	Turbo 16 mm	Claw	No	8202 0850 05
<b>For large Turbo grinders with 1/2" BSP air inlet</b>						
MAXI F/RD C-T20	65 l/s	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

## Productivity kits for impact wrenches and pulse tools

Model	Economical air flow	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small impacts and pulse tools with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EP EQ08-C08	7.5 l/s	9 l/s	Cablair 8 mm	ErgoQIC 08	Yes	8202 0850 35
<b>For 1/2" impact wrenches and pulse tools with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 36
<b>For 1/2" impact wrenches and pulse tools with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 37
MIDI Optimizer F/RD EQ10-R10	13 l/s	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 38
<b>For impact wrenches and pulse tools with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13	21 l/s	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 39
<b>For impact wrenches and pulse tools with 1/2" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 41

# Hose Kits

## Pre-mounted hose kits

Atlas Copco hose kits give you the correct combination of hose and coupling so that you don't need to spend time choosing and mounting.

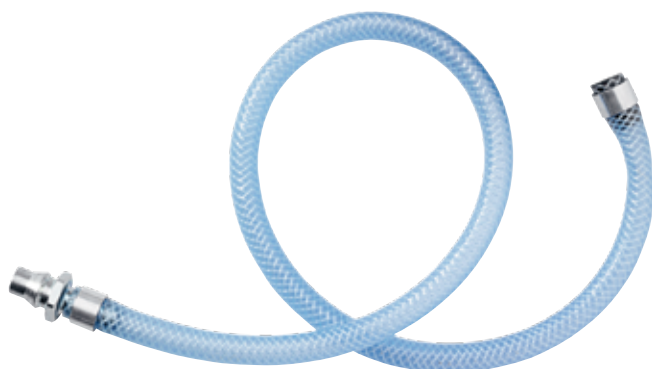
- Correct combination hose – coupling.
- Immediate use.



Hose	Dia mm	Length m	Nipple	Coupling	Air inlet thread nipple	Ordering No.
Cablaire	6	5	ErgoNIP 08	ErgoQIC 08	-	8202 1182 01
Cablaire	6	5	NIP 08	ErgoQIC 08US	-	8202 1182 16
Cablaire	6	5	ErgoNIP 10	ErgoQIC 10	1/8" BSP	8202 1180 67
Cablaire	6	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1182 01
Cablaire	8	5	ErgoNIP 08	ErgoQIC 08	1/4" BSP	8202 1182 02
Cablaire	8	5	NIP 08	ErgoQIC 08US	-	8202 1182 21
Cablaire	8	5	ErgoNIP 10	ErgoQIC 08	1/4" BSP	8202 1180 77
Cablaire	10	5	ErgoNIP 08	ErgoQIC 08	1/4" BSP	8202 1182 03
Cablaire	10	5	ErgoNIP 10	ErgoQIC 10	1/8" BSP	8202 1180 30
Cablaire	13	5	ErgoNIP 10	ErgoQIC 10	3/8" BSP	8202 1180 79
Cablaire	13	5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 10
Cablaire	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 18
Cablaire	13	8.5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 20
Cablaire	13	10	ErgoNIP 10	ErgoQIC 10	-	8202 1182 15
PVC	10	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1180 18
PVC	10	5	ErgoNIP 10	ErgoQIC 08	3/8" BSP	8202 1180 31
Rubair	10	5	ErgoNIP 10	ErgoQIC 10	3/8" BSP	8202 1180 20
Rubair	10	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1180 43
Rubair	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 24
Rubair	20	5	CLAW	ErgoQIC 10	-	8202 1180 24
Turbo	13	5	ErgoNIP 10	ErgoQIC 10	1/2" BSP	8202 1180 22
Turbo	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 19
Turbo	16	5	ErgoNIP 10	ErgoQIC 10	-	8202 1180 34
Turbo	16	5	CLAW	ErgoQIC 10	1/2" BSP	8202 1181 80
Turbo	16	5	NIP 15US	ErgoQIC 15US	-	8202 1182 22
Turbo	16	10	ErgoNIP 10	ErgoQIC 10	-	8202 1180 46
Turbo	20	20	CLAW	ErgoQIC 10	-	8202 1181 75

## Pre-mounted whip hoses

If a quick coupling is used together with a vibrating tool, such as a percussive tool, impact wrench, grinder or impulse tool, we recommend it should be separated from the tool by a whip hose (length 0.5 m).



Hose	Dia mm	Length m	Nipple	Male thread	Ordering No.
Cablair	10	0.7	ErgoNIP 10	1/4" BSPT	8202 1180 19
Cablair	10	1.5	ErgoNIP 10	1/4" BSPT	8202 1182 30
Cablair	10	1.5	ErgoNIP 10	3/8" BSPT	8202 1182 35
Cablair	10	0.7	ErgoNIP 08	1/4" BSPT	8202 1180 47
PVC	10	0.7	ErgoNIP 08	3/8" BSPT	8202 1180 50
Rubair	10	0.7	ErgoNIP 10	1/4" BSPT	8202 1180 42
Rubair	10	0.7	ErgoNIP 10	3/8" BSPT	8202 1180 44
Rubair	13	0.7	ErgoNIP 10	1/2" BSPT	8202 1180 23
Rubair	16	0.5	ErgoNIP 10	1/2" BSPT	8202 1180 28
Rubair	16	0.5	CLAW	1/2" BSPT	8202 1180 37
Turbo	16	5	CLAW	1/2" BSPT	8202 1181 95







# Hose reels



# Organized and lean work station

- Get the best air flow
- Benefit from high air flow and a tidy workplace
- Large range of hose reels for many various pneumatic tools
- Mount everywhere: Floor, wall or ceiling
- Durable model with die cast aluminum casing

## Selection guide

HM Light	HM Open	HM Flex L	HH Open XL
			
0-10 l/s	10-22 l/s		22-95 l/s



# Hose reels



## HM LIGHT

Hose reels from the HM Light series have a robust design with a durable, high impact composite casing. The outlet slot is optimized to provide an ideal pull-out angle for the hose. It is recommended to be used together with low air consuming tools such as small and medium screwdrivers, pulse tools, drills, impact wrenches, riveting and chipping hammers.

- Snap-on, pivoting wall bracket.
- PVC/PUR hose.
- Hose end provided with pressed fitting and steel spiral hose protector.
- Hose easily replaced when needed.
- Drum with ball bearings on both sides.
- Working temperature: 0°C - +50°C.
- Inlet hose length: 1 m

Model	Hose length m	Hose type	Hose inside dia		Connection inlet hose inside dia (cut of hose) mm	Connection distribution hose BSP	Economical air flow (at 0.2 bar pressure drop) ls	Max air flow capacity (at 0.5 bar pressure drop) ls	Weight kg	Ordering No.
			mm	in						
HM LIGHT 8-8	8	PVC/PUR	8	5/16	10	1/4	4	7	3	8202 1183 30 <sup>a</sup>
HM LIGHT 8-12	12	PVC/PUR	8	5/16	10	1/4	3	5	5	8202 1183 31 <sup>b</sup>
HM LIGHT 10-10	10	PVC/PUR	10	3/8	10	3/8	6	10	5	8202 1183 32 <sup>b</sup>

<sup>a</sup>Working pressure: 12 bar

<sup>b</sup>Working pressure: 15 bar



## HM FLEX L

The HM FLEX L, with a steel casing and high quality rubber hose, handles both air and water. The HM FLEX L is recommended for all screwdrivers, pulse tools, impact wrenches, drills, chipping and riveting hammers and grinders up to 1,000 W.

- NBR rubber hose.
- Movable brackets for floor, wall and ceiling mounting.
- High flow capacity.
- Working temperature: -30°C - +60°C.
- Max. working pressure: 15 bar.
- Inlet hose length: 1 m.

Model	Length m	Hose	Hose inside dia		Connection inlet BSP male	Connection distribution hose BSP male	Air flow l/s	Weight kg	Ordering No.
			mm	in					
HM FLEX L	10	Rubber	12.5	1/2	1/2	1/2	22	16	8202 1181 56

## HM OPEN



The HM Open has an open composite casing, a steel frame with a 10 or 13 mm hose. It is a reliable, medium sized hose reel recommended for screwdrivers, impact wrenches, pulse tools, drills, chipping and riveting hammers and grinders up 1,000 W.

- Spatter resistant rubber hose.
- Outlet roller position can be adjusted through 120 degrees for optimal pull-out angle.
- Hose end provided with steel spiral hose protector.
- Latch function is easily disengaged.
- Spring tension is easily adjusted.
- Floor, wall or ceiling mounting.
- Working temperature: -10°C - +60°C.
- Max. working pressure: 15 bar.
- Inlet hose length: 1 m.

Model	Hose length m	Hose type	Hose inside dia		Connection inlet hose inside dia (cut of hose) mm	Connection distribution hose BSP	Economical air flow (at 0.2 bar pressure drop) l/s	Max air flow capacity (at 0.5 bar pressure drop) l/s	Weight kg	Ordering No.
			mm	in						
HM OPEN 10-15	15	Rubber	10	3/8	12.5	3/8	5	9	11	8202 1183 33
HM OPEN 10-20	20	Rubber	10	3/8	12.5	3/8	5	7	14	8202 1183 34
HM OPEN 12-10	10	Rubber	12.5	1/2	12.5	1/2	13	22	12	8202 1183 35
HM OPEN 12-15	15	Rubber	12.5	1/2	12.5	1/2	11	17	13	8202 1183 36

Pivoting wall brackets needs to be ordered separately 4390 2080 10.



## HM OPEN XL

Hose reels in the HM Open XL series have an open die cast aluminum casing with a 3/8" or 1/2" hose. HM Open XL hose reels are recommended for screwdrivers, impact wrenches, pulse tools, drills, chipping and riveting hammers and high powered grinders.

- Spatter resistant rubber hose.
- Floor, wall or ceiling mounting.
- Revolving hinge for flexible use.
- Working temperature: -10°C - +60°C.
- Max. working pressure: 15 bar.
- Inlet hose length: 1 m.

Model	Hose length m	Hose type	Hose inside dia		Connection inlet hose inside dia (cut of hose) mm	Connection distribution hose BSP	Economical air flow (at 0.2 bar pressure drop) l/s	Max air flow capacity (at 0.5 bar pressure drop) l/s	Weight kg	Ordering No.
			mm	in						
HM OPEN XL 12-20	20	Rubber	12.5	1/2	12.5	1/2	8	14	27	8202 1183 37
HM OPEN XL 12-30	30	Rubber	12.5	1/2	12.5	1/2	8	12	28	8202 1183 38
HM OPEN XL 19-15	15	Rubber	19	3/4	19	3/4	27	44	28	8202 1183 39
HM OPEN XL 25-10	10	Rubber	25	1	25	1	60	95	30	8202 1183 40

Pivoting wall brackets needs to be ordered separately 4390 2080 11.



# Blow guns and test equipment

## Blow Gun BG-series



Blow guns in the BG Series are a robust, user friendly solution for all cleaning applications. The plastic body offers flexibility in handling for both left and right handed users. It insulates against cold and reduces the risk of scratches to worksurfaces. The blow gun has excellent throttling properties allowing easy regulation of the air flow.

- High flow capacity
- Suspension
- Plastic body to avoid scratches
- Air inlet thread in brass
- Star tip availability for improved safety
- Applicable standards: OSHA STD1-13.1, OSHA 1910.95 (b).

Model	Version	Working pressure bar	Air flow l/s	Weight		Air inlet thread BSP	Ordering No.
				kg	lb		
BG 2603-HF	Long tube, high flow	6.3	7.5	0.13	0.29	1/4	8202 1006 04
BG 2604-SHF	Short tube	6.3	4.3	0.12	0.26	1/4	8202 1006 05
BG 2605-STSS	Short tube, star tip	6.3	6.6	0.12	0.26	1/4	8202 1006 06
BG 2606-STS	Long tube, star tip, silencer	6.3	6.3	0.14	0.31	1/4	8202 1006 07

## Test Equipment

### Pressure control unit

The unit consists of a high quality pressure gauge and the necessary couplings for checking the air pressure at the air inlet of the machine.

**Ordering No. 4145 0699 81.**



All local safety regulations with respect to installation, operation and overhaul must always be followed. Please read the separate instructions regarding safety which are supplied with all products in order to improve your own safety!

## Ball valve

- Switch off the compressed air with the ball valve when you are not working (see fig. 1).
- Open all ball valves gently in order to discover improperly tightened devices (see fig. 5).

## Air preparation units

- Please check for solvents which change the structure of polycarbonate<sup>a</sup> bowls.

These solvents make the polycarbonate brittle so it can break. Normally polycarbonate is not easy to break. If you need to use aggressive solvents, please contact us and we will help you choose the right equipment.

- Use bowl guard.

An easy way to eliminate this type of accident is to use a bowl guard on MINI and MIDI units. The MAXI unit has an aluminum bowl with a new, more chemical resistant plastic on the inside as standard.

Check that the bowls are properly tightened and that all units are fitted together before switching on the compressed air with the ball valve.

## Quick safety couplings

To increase safety and reduce the risk of operator injuries we recommend you to always buy couplings with a safety function. Couplings with a safety function are disconnected in two stages in order to vent the coupling and minimize the risk of sudden component separation, which has the potential to cause operator injury.

Never open a quick coupling with a screwdriver in order to ventilate the air.

## Claw couplings

- Be very careful (see fig. 1+2+3).

They are always open and must be used very carefully. To increase safety when using claw couplings, we recommend the claw LNH claw coupling with a lock nut.

## Clamps and connections

- Avoid screwdrivers when tightening.

Check that they are properly tightened. Avoid screwdrivers when tightening, they can easily slip and damage your hand. Use a wrench. If you need to use a screwdriver, mount the clamp in a vice.

## Hoses

When mounting hoses on hose connections, use water and soap in order to make the hose slip on to the connection. Do not use oil. Water and soap will dry up. Remove leaking hoses. A small leakage can quickly become a large hole.

## Blow guns

- Use the safety version. It eliminates the risk of air at high pressure coming into direct contact with skin.

<sup>a</sup> Polycarbonate has good chemical resistance to all solvents except chemicals containing acetone, benzol, glycerine, some hydraulic and synthetic oils, chloroform, methyl alcohol, carbon tetrachloride (and similar solvents), carbon disulphide, perchloroethylene, toluene, trichloroethylene, xylene (nitrocellulose, thinner), acetic acid.

## Follow this order when working with claw couplings.

### 1 How to open a claw coupling:

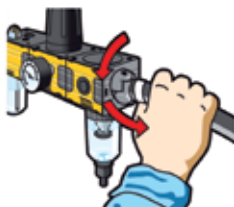
Close the ball valve.



### 2 Run the tool so the air ventilates out.



### 3 Release the claw coupling.



### 4 How to close a claw coupling:

Make sure that the two claw couplings are mounted together.

Use claw couplings with lock nut (LNH) or use a lock spring for safer locking.



### 5 Open the ball valve gently.



# Vibration and Sound values

Model	Vibration total value (3 axes value) according to ISO 28927-2 Valid from 2010		Sound pressure levels and sound power levels * according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Impact Wrenches</b>				
W2910	3.3	0.8	100	89
W2911	5.1	0.9	103	92
W2915	7.5	1.8	107	96
W2920	10.2	1.5	107	96
W2410	7	2.8	99	88
W2411	7	2.8	99	88
W2412	5.6	1	99	88
W2415	3.8	0.8	101	89.7
W2420	9.7	1.3	105	94
W2425	11.7	7	106	95
W2427	16.2	3.2	105	94
W2428	10.7	5.9	109	98

Model	Vibration total value (3 axes value) according to ISO 28927-2 Valid from 2010		Sound pressure levels and sound power levels * according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Ratchet Wrenches</b>				
W2630	10.5	6.8	86	97
W2631	10.5	6.8	86	97
W2620	15	5.1	87	98
W2621	15	5.1	87	98
W2610	8.8	6.8	85	96
W2611	8.8	6.8	85	96

Model	Vibration total value (3 axes value) according to ISO 28927-2 Valid from 2010		Sound pressure levels and sound power levels * according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Screwdrivers</b>				
S2305	<2.5	-	83	94
S2326	<2.5	-	83	94
S2308-C	<2.5	-	82	93
S2309-C	<2.5	-	85	96
S2310-C	<2.5	-	81	92
S2340-C	<2.5	-	83	94
S2360-C	<2.5	-	76	-
S2370-C	<2.5	-	83	94
S2450-P	<2.5	-	78	89
S2451-P	<2.5	-	78	89
S2452-P	<2.5	-	78	89
S2416-L	<2.5	-	73	-
S2426-L	<2.5	-	73	-
S2428-L	<2.5	-	70	-
S2480	6.4	1.2	90	101
S2481	6.4	0.9	89	100

Model	Vibration total value (3 axes value) according to ISO 28927-5 Valid from 2010		Sound pressure levels and sound power levels * according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Drills</b>				
D2112	<2.5	-	80	91
D2116	<2.5	-	82	93
D2121	2.5	1.2	87	98
D2148-R	3.7	1.2	85	96
D2160	<2.5	-	80	91
D2163	<2.5	-	78	89
D2112Q	<2.5	-	80	91
D2116Q	<2.5	-	82	93
D2121Q	2.5	1.2	87	98
D2148-RQ	3.7	1.2	85	96
D2160-Q	<2.5	-	80	91
D2163-Q	<2.5	-	78	89

\*The uncertainty in the sound levels is 3 dB(A).

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Model	Vibration total value (3 axes value) according to ISO 28927-1 Valid from 2010		Sound pressure levels and sound power levels * according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Grinders</b>				
<b>Vertical grinder</b>				
G2415	5.9	1.9	84	95
G2416	<2.5	-	80	91
<b>Angle grinder</b>				
G2515	6	2	83	94
G2510-US-4*	6.9	2.3	81	92
G2510-US-4.5*	7.9	2.6	78	89
G2408-100	6.4	2.1	81	92
G2408-115	8.1	2.7	81	92
G2408-125	10	3.3	81	92
G2511-125	6.5	2.2	84	95
G2511-115	5.9	1.9	81	92
G2511-100	5.8	1.9	79	90
G2588-S066	4.1	0.8	90	101
G2588-230-M14	7.8	2.6	90	101
G2588-7-US	7.5	2.5	90	101
G2588-5-US	8.1	2.7	90	101
G2588-180-072-M14	6.8	2.2	90	101
G2588-180-M14	7.1	2.4	90	101

Model	Vibration total value (3 axes value) according to ISO 28927-12 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Grinders</b>				
<b>Die grinder</b>				
G2412-1	<2.5	-	79	90
G2440	<2.5	-	80	91
G2445	4.3	1	90	101
G2414-S085	<2.5	-	70	-
G2414-S120	<2.5	-	74	-
G2414-S150	2.5	0.7	76	-
G2414-S200	<2.5	-	81	92
G2414-S250	<2.5	-	85	96
G2414 S088-US	<2.5	-	71	-
G2414 S125-US	<2.5	-	74	-
G2414 S155-US	2.5	0.7	77	-
G2414 S205-US	<2.5	-	81	92
G2414 S255-US	<2.5	-	87	98
G2422-1	3.4	0.8	77	-
G2424-S085	5.3	1.2	<70	-
G2424-S120	<2.5	-	73	-
G2424-S150	<2.5	-	76	-
G2424-S200	<2.5	-	81	92
G2424-S250	3.5	0.8	85	96
G2424 S088-US	5.3	1.2	<70	-
G2424 S125-US	<2.5	-	73	-
G2424 S155-US	<2.5	-	76	-
G2424 S205-US	<2.5	-	81	92
G2424 S255-US	3.5	0.8	85	96
G2417-S250	<2.5	-	81	92
G2417-S180	4	0.9	74	-
G2417-S120	<2.5	-	<70	-
G2417-S250-US	<2.5	-	81	92
G2417-S180-US	4	0.9	74	-
G2417-S120-US	<2.5	-	<70	-
G2427-S250	<2.5	-	81	92
G2427-S180	3.8	1.9	74	-
G2427-S120	5.8	1.2	<70	-
G2427-S250-US	<2.5	-	81	92
G2427-S180-US	3.8	1.9	74	-
G2427-S120-US	5.8	1.2	<70	-
G2451	2.9	1.4	79	-

Model	Vibration total value (3 axes value) according to ISO 28927-8 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Saw</b>				
C1050	14	2.3	78	89

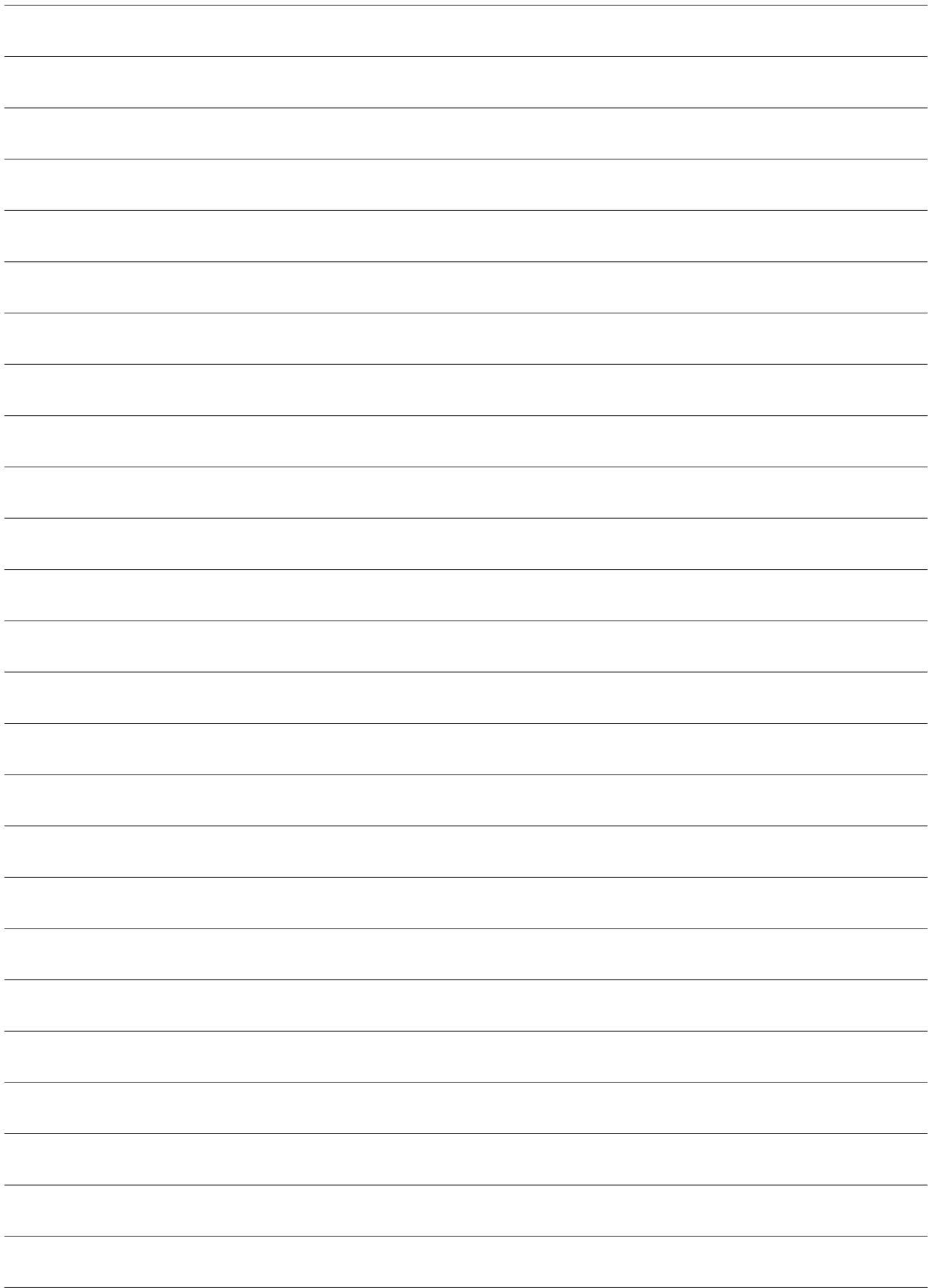
Model	Vibration total value (3 axes value) according to ISO 28927-9 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Percussive</b>				
P2520	17	3.2	78	-
P2540	3.4	0.8	83	94
P2541	3.1	0.8	85	96
P2550	5.3	1.7	83	94
P2551	6.7	2.8	85	96
P2505	5.6	1	72	-
P2530-H	12.5	4.8	96	107
P2530-R	12.5	4.8	96	107
P2531-H	11.5	4.7	100	107
P2531-R	11.5	4.7	100	107
P2535-H	-	-	103	114
P2535-R	-	-	103	114
P2536-H	-	-	103	114
P2539-H	-	-	102	113

Model	Vibration total value (3 axes value) according to ISO 28927-3 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Sanding and polishing</b>				
G2588-S085-M14	2.8	0.7	90	101
G2588-S066-US	4.1	0.8	90	101
G2588-S085-US	4.2	0.8	90	101
G2410	<2.5	-	89	100
G2420	<2.5	-	83	94
G2302	<2.5	<2.5	81	92
G2502	<2.5	-	84	95
G2406	<2.5	-	79	-
G2407	<2.5	-	79	-
G2407M14	<2.5	-	79	-
G2438-6.3N	3.7	1.7	84	95
G2438-6.5N	10.5	4.5	85	96
G2438-6.10N	6.9	3.1	87	98
G2438-6.3I	3.7	1.7	84	95
G2438-6.5I	10.5	4.5	85	96
G2438-6.10I	6.9	3.1	87	98
G2438-6.3C	3.7	1.7	84	95
G2438-6.5C	10.5	4.5	85	96
G2438-6.10C	6.9	3.1	87	98
G2428	6.8	3.2	87	98

<sup>a</sup> The uncertainty in the sound levels is 3 dB(A).

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