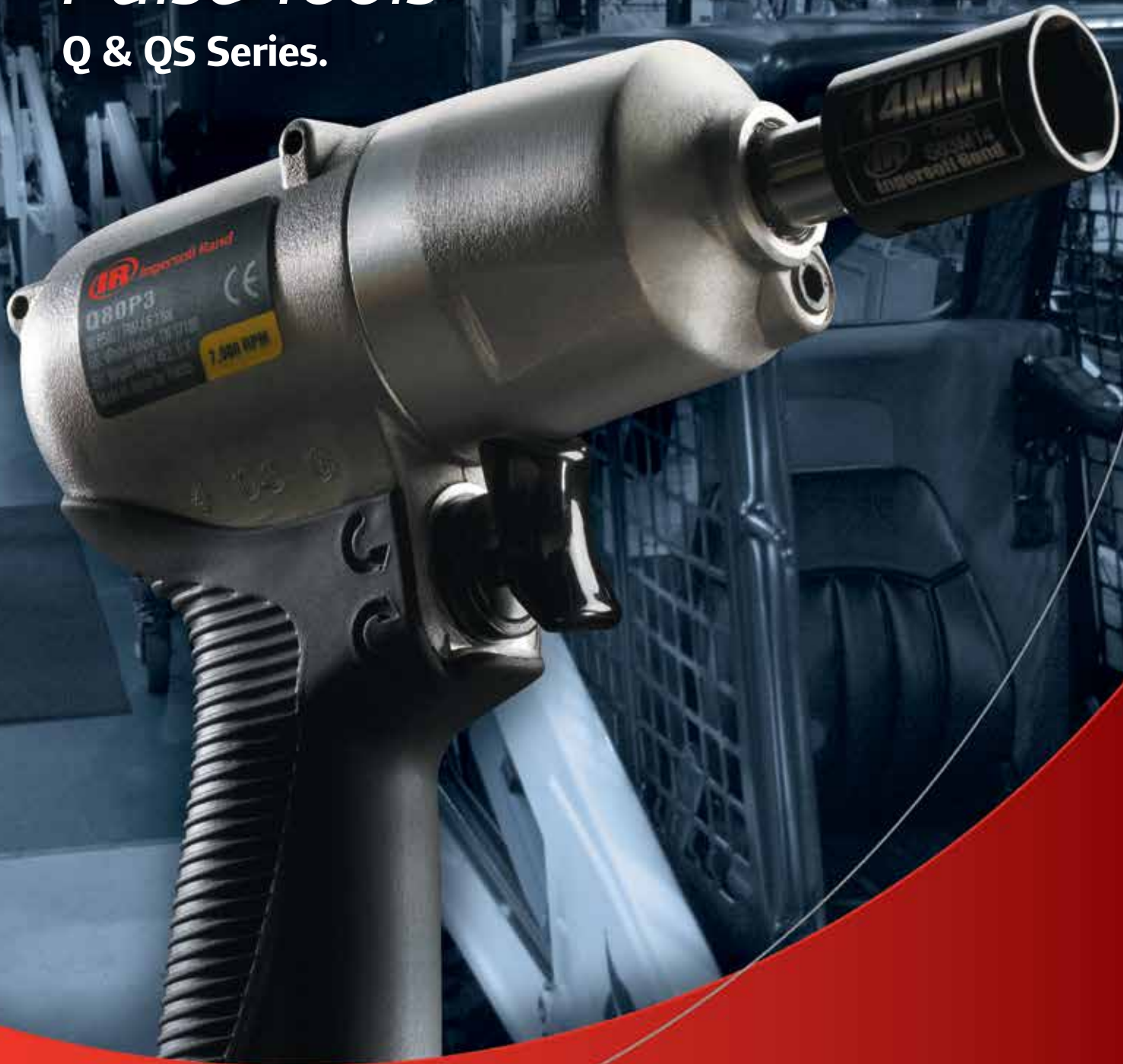




# Pulse Tools

Q & QS Series.



**REAL TOOLS FOR REAL WORK.™**

# Because every assembly is critical

There's much more to an assembly application than merely putting wrench to bolt. It's an intricate matter of linking tool users and fasteners to deliver an uncompromised combination of ergonomics, speed, and accuracy.

## THE SOLUTION INGERSOLL RAND PULSE SYSTEMS.

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### **High-speed, reactionless fastening**

with power-to-weight ratios similar to impact tools.

### **Consistent torque**

Shut off valve and reset provide extreme accurate and fast repeatability.

### **Excellent performance and durability**

with enhanced ergonomics for operator comfort and productivity.

## Trusted tools, proven experience

At Ingersoll Rand, we have extensive experience with threaded fastening processes. For over 100 years, we've worked with many of the world's leading manufacturers in various industries, and we understand the interface of the tool and operator. We know how to leverage the power of ergonomically designed equipment to maximize productivity and inspire progress.



# Pulse Tools

## Torque Selection Guide



Model	0 Nm	80 Nm	160 Nm	240 Nm
SHUT OFF				
QS50PQ1	4.5 – 8.0			
QS50P3	4.5 – 8.0			
QS60PQ1	6.0 – 13.0			
QS60P3	7 – 15.5			
QS70PQ1	13 – 28			
QS70P3	15 – 32			
QS80P3	30 – 55			
QS110P4	50 – 85			
QS120P4	70 – 115			
QS140P4	110 – 150			
QS150P6	140 – 210			



Model	0 Nm	80 Nm	160 Nm	240 Nm
NON SHUT OFF				
Q60PQ1	11 – 20			
Q60P3	13 – 22			
Q70PQ1	20 – 28			
Q70P3	24 – 35			
Q80PQ1	24 – 35			
Q80P3	34 – 50			
Q90P3	47 – 65			
Q110P4	65 – 100			
Q120P4	95 – 130			
Q140P4	130 – 160			



### Guide for determining maximum fastening torque (in Nm)

BOLT GRADE DIN267 >		3.6	4.6	4.8	5.6	5.8	6.8	8.8	10.9	12.9
M4	7	0.85	1.1	1.5	1.4	1.9	2.3	2.9	4.1	4.9
M5	9	1.7	2.2	3.0	2.8	3.7	4.5	6.0	8.5	10
M6	10	2.9	3.8	5.1	4.8	6.4	7.7	10	14	17
M8	13	7.0	9.3	12	12	16	19	25	35	41
M10	17	14	19	25	23	31	37	49	69	83
M12	19	24	32	43	40	54	65	86	120	145
M14	22	39	51	68	64	86	105	135	190	230
M16	24	59	79	105	98	130	155	210	295	355
M18	27	81	110	145	135	180	215	290	405	485
M20	30	115	155	205	190	255	305	410	580	690
M22	32	155	205	275	260	345	415	550	780	930
M24	36	200	265	350	330	440	530	710	1000	1200

# Pulse Tools

## Q Series

Ingersoll Rand offers a full line of standard shutoff and non-shutoff pulse tools in pistol configurations to meet your needs. These extremely lightweight tools offer excellent power, speed, accuracy, and ergonomics.

The Q-Series is the latest generation of pulse tools engineered with the end-user in mind — making them the tools of choice for operators looking for the best combination of speed, ergonomics, and accuracy.

### Improved life-cycle costs

Patented cooling system, improved sealing, and dual bearing support mechanism

### Environmentally enhanced

Lube-free, dual chamber air motor, and self-lubricating blades and cylinder reduce oil mist in the environment and provide extended durability

### Quick and easy torque adjustment

One screw on both shutoff and non-shutoff models speeds the setup process while still providing good repeatability

### Rapid reset mechanism

Responds quickly to speed up cycle times on shut-off models

### Reactionless one-handed operation

Low-force trigger and easily accessible reverse lever lets operators concentrate on their task

### Comfortable soft-touch grip

Ergonomically contoured to reduce operator fatigue

### Directional air exhaust

Silencer projects exhaust away from the user and the workpiece

### Ergonomic improvements

Provide greater useability with lighter, smaller, quieter, and lower vibration designs



# Pulse Tools



Ref.	CCN	Nm		rpm	kg	mm	mm	in	l/sec	Air hose size
<b>SHUT OFF</b>										
<b>QS50PQ1</b>	48622112	4.5 - 8.0	M5	4300	0.95	164	23	1/4"	4.6	6mm
<b>QS50P3</b>	48622120	4.5 - 8.0	M5	4300	0.95	164	23	3/8"	4.6	6mm
<b>QS60PQ1</b>	47135900	6.0 - 13.0	M6	5300	0.95	164	23	1/4"	5.6	6mm
<b>QS60P3</b>	47135892	7.0 - 15.5	M6	5300	0.95	164	23	3/8"	5.6	6mm
<b>QS70PQ1</b>	47135926	13.0 - 28.0	M6-M8	6800	1.10	177	23	1/4"	8.8	6mm
<b>QS70P3</b>	47135918	15.0 - 32.0	M6-M8	6800	1.10	177	23	3/8"	8.8	6mm
<b>QS80P3</b>	47135934	30.0 - 55.0	M8	6800	1.10	187	25	3/8"	9.2	8mm
<b>QS110P4</b>	47149208	50.0 - 85.0	M10	5800	1.50	194	29	1/2"	13.5	8mm
<b>QS120P4</b>	47149216	70.0 - 115.0	M12	5400	1.80	201	31	1/2"	14.6	8mm
<b>QS140P4</b>	47149224	110.0 - 150.0	M14	5200	2.10	214	33	1/2"	16.6	10mm
<b>QS150P6</b>	48622138	140.0 - 210.0	M16	4400	3.00	237	39	3/4"	17	10mm



Ref.	CCN	Nm		rpm	kg	mm	mm	in	l/sec	Air hose size
<b>NON SHUT OFF</b>										
<b>Q60PQ1</b>	47136171	11.0 - 20.0	M6	4000	0.80	130	22	1/4"	5.2	6mm
<b>Q60P3</b>	47147681	13.0 - 22.0	M6	4000	0.80	130	22	3/8"	5.2	6mm
<b>Q70PQ1</b>	80199326	20.0 - 28.0	M6-8	7000	0.80	131	21	1/4"	5.5	6mm
<b>Q70P3</b>	80199318	24.0 - 35.0	M6-8	7000	0.80	131	21	3/8"	5.5	6mm
<b>Q80PQ1</b>	80199342	24.0 - 35.0	M8	7000	0.85	138	21	1/4"	5.9	6mm
<b>Q80P3</b>	80199334	33.0 - 50.0	M8	7000	0.85	138	21	3/8"	5.9	6mm
<b>Q90P3</b>	80199359	47.0 - 65.0	M8-10	6500	1.0	148	23	3/8"	6.7	8mm
<b>Q110P4</b>	80199367	65.0 - 100.0	M10-12	6000	1.4	164	26	1/2"	9.7	8mm
<b>Q120P4</b>	45631405	95.0 - 130.0	M12	6600	1.70	175	29	1/2"	13.7	8mm
<b>Q140P4</b>	45631512	130.0 - 160.0	M14	6000	2.20	190	33	1/2"	15.6	10mm

MODEL		
<b>NON SHUT OFF</b>		
<b>Q60-Q90</b>	72 - 80 dBa	1/4" NPT
<b>Q110-Q140</b>	81 - 85 dBa	1/4" NPT
<b>SHUT OFF</b>		
<b>QS50-QS80</b>	67 - 76 dBa	1/4" NPT
<b>QS110-QS150</b>	83 - 88 dBa	1/4" NPT





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