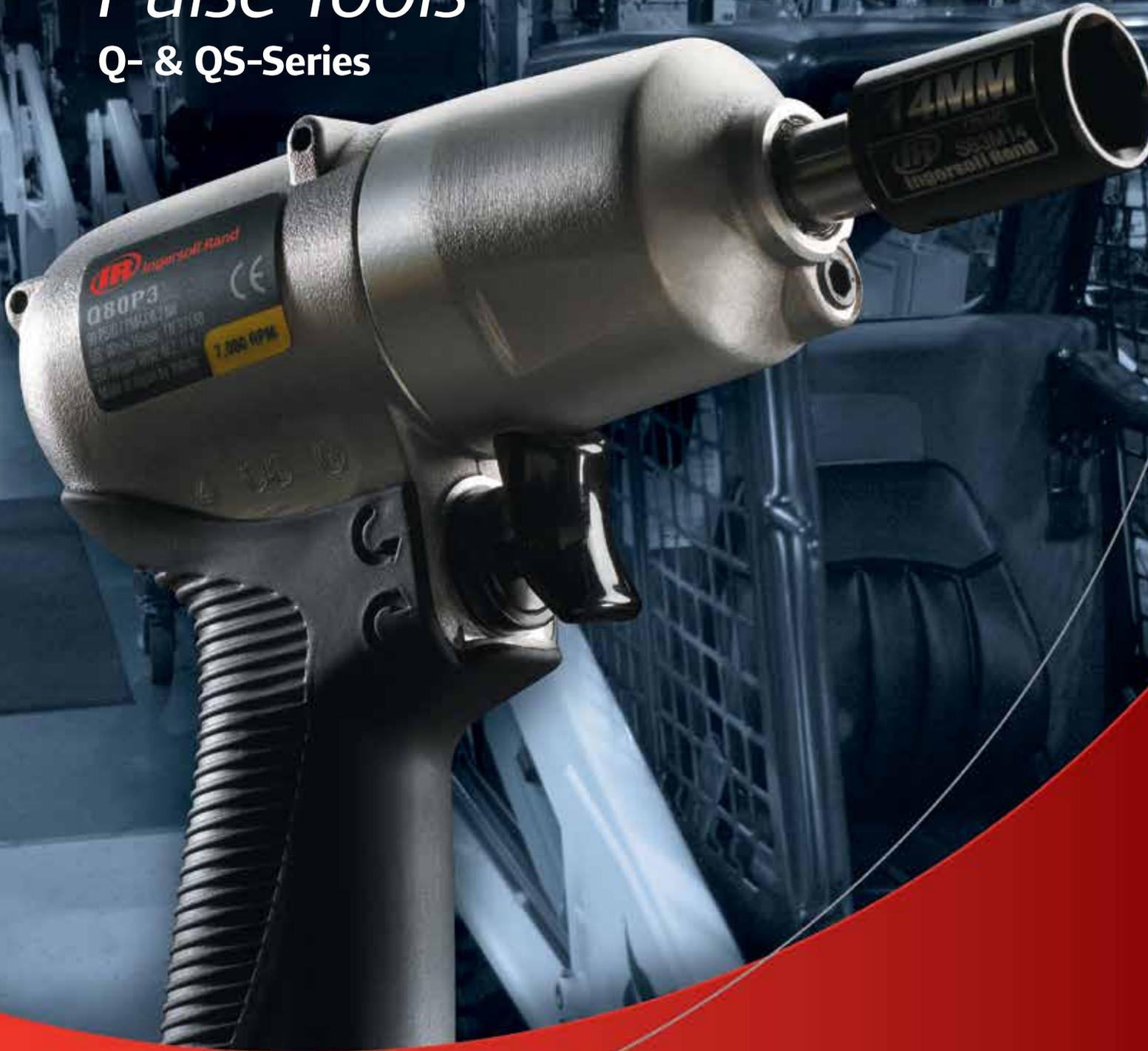




Pulse Tools

Q- & QS-Series



REAL TOOLS FOR REAL WORK.™

Pulse Tools

Q-Series

Ingersoll Rand offers a full line of standard shut-off and non-shut-off 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 shut-off and non-shut-off 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 usability with lighter, smaller, quieter, and lower vibration designs



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.

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	0Nm	80Nm	160Nm	240Nm
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	0Nm	80Nm	160Nm	240Nm
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

Specifications at 6.2 bar (90 psi)

Pulse Tools



Ref.	CCN	Nm									
SHUT-OFF											
QS50PQ1	48622112	4.5 - 8.0	M5	4300	0.95	164	23	1/4" 	4.6	6mm	67.4
QS50P3	48622120	4.5 - 8.0	M5	4300	0.95	164	23	3/8" 	4.6	6mm	67.4
QS60PQ1	47135900	6.0 - 13.0	M6	5300	0.95	164	23	1/4" 	5.6	6mm	71.0
QS60P3	47135892	7.0 - 15.5	M6	5300	0.95	164	23	3/8" 	5.6	6mm	71.0
QS70PQ1	47135926	13.0 - 28.0	M6-M8	6800	1.10	177	23	1/4" 	8.8	6mm	76.0
QS70P3	47135918	15.0 - 32.0	M6-M8	6800	1.10	177	23	3/8" 	8.8	6mm	76.0
QS80P3	47135934	30.0 - 55.0	M8	6800	1.10	187	25	3/8" 	9.2	8mm	76.4
QS110P4	47149208	50.0 - 85.0	M10	5800	1.50	194	29	1/2" 	13.5	8mm	85.8
QS120P4	47149216	70.0 - 115.0	M12	5400	1.80	201	31	1/2" 	14.6	8mm	83.2
QS140P4	47149224	110.0 - 150.0	M14	5200	2.10	214	33	1/2" 	16.6	10mm	85.3
QS150P6	48622138	140.0 - 210.0	M16	4400	3.00	237	39	3/4" 	17	10mm	87.8

Specifications at 6.2 bar (90 psi)



Ref.	CCN	Nm									
NON-SHUT-OFF											
Q60PQ1	47136171	11.0 - 20.0	M6	4000	0.80	130	22	1/4" 	5.2	6mm	72.4
Q60P3	47147681	13.0 - 22.0	M6	4000	0.80	130	22	3/8" 	5.2	6mm	72.4
Q70PQ1	80199326	20.0 - 28.0	M6-8	7000	0.80	131	21	1/4" 	5.5	6mm	79.3
Q70P3	80199318	24.0 - 35.0	M6-8	7000	0.80	131	21	3/8" 	5.5	6mm	79.3
Q80PQ1	80199342	24.0 - 35.0	M8	7000	0.85	138	21	1/4" 	5.9	6mm	80.8
Q80P3	80199334	33.0 - 50.0	M8	7000	0.85	138	21	3/8" 	5.9	6mm	80.8
Q90P3	80199359	47.0 - 65.0	M8-10	6500	1.0	148	23	3/8" 	6.7	8mm	78.3
Q110P4	80199367	65.0 - 100.0	M10-12	6000	1.4	164	26	1/2" 	9.7	8mm	84.4
Q120P4	45631405	95.0 - 130.0	M12	6600	1.70	175	29	1/2" 	13.7	8mm	81.0
Q140P4	45631512	130.0 - 160.0	M14	6000	2.20	190	33	1/2" 	15.6	10mm	85.0

Specifications at 6.2 bar (90 psi)





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