

POKA YOKE+ SYSTEM

for YLa-JQ and Y-JQ series

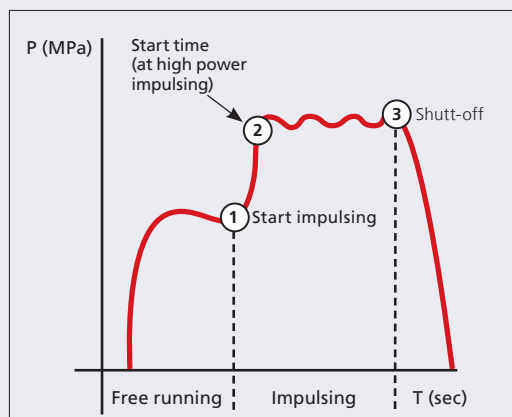


Poka Yoke+: functioning principle

The system is controlled by measuring the air pressure at the inlet side of the air motor. This air pressure varies from free running to impulsing. By this measured air pressure the controller detects contact of the bolt head (point 2). Upon contact, the adjustable timer gives the shut-off signal (point 3). Adjustability of the timer takes care of adoption to either hard or soft joints. Similar, the controller detects double hits and trigger release before shut-off.

Superior clamp forces

In conventional shut-off tools point 2 is the shut-off point. Due to the above mentioned principle of the Poka Yoke+ controller, the relaxation is minimized and the correct torque and clampforce are achieved. This system is more accurate than shut-off or standard impulse wrenches. The torque is adjusted at the impulse mechanism. In combination with the parameters in the controller YTC-3, a reliable shut-off is achieved.



The system is more accurate than shut-off or standard impulse wrenches.

Controller YTC-3

- Power supply: 100 - 240V AC
- Input: 8
- Relay output: 4
opening and shutting capacity:
Max. DC-48W, AC-220VA)
- Output for solenoid valve:
1(DC24V 2W)



System features

- Group control
- Controlled shut-off
- Double tightening detection
- Interlock with assembly line
- Error judgement on trigger release
- Teach-in mode for programming
- Oil deterioration indication

YOKOTA - IMPULSE WRENCHES

YLa-JQ & Y-JQ SERIES



YLa60A-JQ
YLa70A-JQ
YLa80A-JQ



YLa60E-JQ
YLa70E-JQ
YLa80E-JQ
YLa90E-JQ
YLa110E-JQ
YLa120E-JQ
YLa140E-JQ



Y-41A-JQ
Y-46E-JQ



Y-140JQ

Lightweight YLa-JQ series

Type	Square/ Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise- level dB(A)
YLa60A-JQ	1/4" Hex	6	4.000	11 - 20	5,0	5,5	0,78	PT 1/4"	6,5	130	22	1,4	71
YLa60E-JQ	3/8" Sq.	6	4.000	13 - 22	5,0	5,5	0,78	PT 1/4"	6,6	130	22	1,4	71
YLa70A-JQ	1/4" Hex	6 - 8	7.000	20 - 28	5,5	6,1	0,80	PT 1/4"	6,5	132	22	1,4	74
YLa70E-JQ	3/8" Sq.	6 - 8	7.000	20 - 35	5,5	6,1	0,80	PT 1/4"	6,5	132	22	1,4	74
YLa80A-JQ	1/4" Hex	8	7.000	24 - 35	5,8	9,0	0,90	PT 1/4"	6,5	139	22	1,2	75
YLa80E-JQ	3/8" Sq.	8	7.000	33 - 50	5,8	9,0	0,90	PT 1/4"	6,5	139	22	1,2	75
YLa90E-JQ	3/8" Sq.	8 - 10	6.500	47 - 70	6,7	11,8	1,00	PT 1/4"	10	148	24	1,2	78
YLa110E-JQ	1/2" Sq.	10 - 12	6.000	65 - 105	9,6	13,1	1,40	PT 1/4"	10	164	26	1,8	81
YLa120E-JQ	1/2" Sq.	12	6.600	80 - 130	10,0	15,6	1,80	PT 1/4"	10	172	28	2,2	82
YLa140E-JQ	1/2" Sq.	14	6.000	100 - 160	13,0	18,9	2,20	PT 1/4"	10	190	30	2,4	84

Y-JQ series

Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s ²	Noise- level dB(A)
Y-41A-JQ	1/4" Hex	4 - 6	9.300	6 - 12	5,0	8,8	0,73	PT 1/4"	6,5	141	17	2,1	72
Y-46E-JQ	3/8" Sq.	5 - 6	8.000	16 - 30	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-140JQ	3/4" Sq.	16	3.300	160 - 270	13,1	18,4	3,20	PT 1/4"	13	226	36	3,3	82

* Torque specifications

All specified torques are measured on the YOKOTA testers, Series YET, at a dynamic airpressure of 0.63MPa. The YOKOTA testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

Rubber protection covers for YLa-JQ and Y-JQ impulse wrenches are included in the box.

Accessories for impulse wrenches on pages 54.

