Parts Manual

Mfg. No: 1014-1
3,200 PSI Annov. Pump

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Model Components

Page

Pressure Washer. 4
Pump #B1410. 6
Pump #B1410 Regulating Valve. 10
Torque Specification Chart. 12

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Pressure Washer

Note: Unless noted otherwise, use the standard torque specifications

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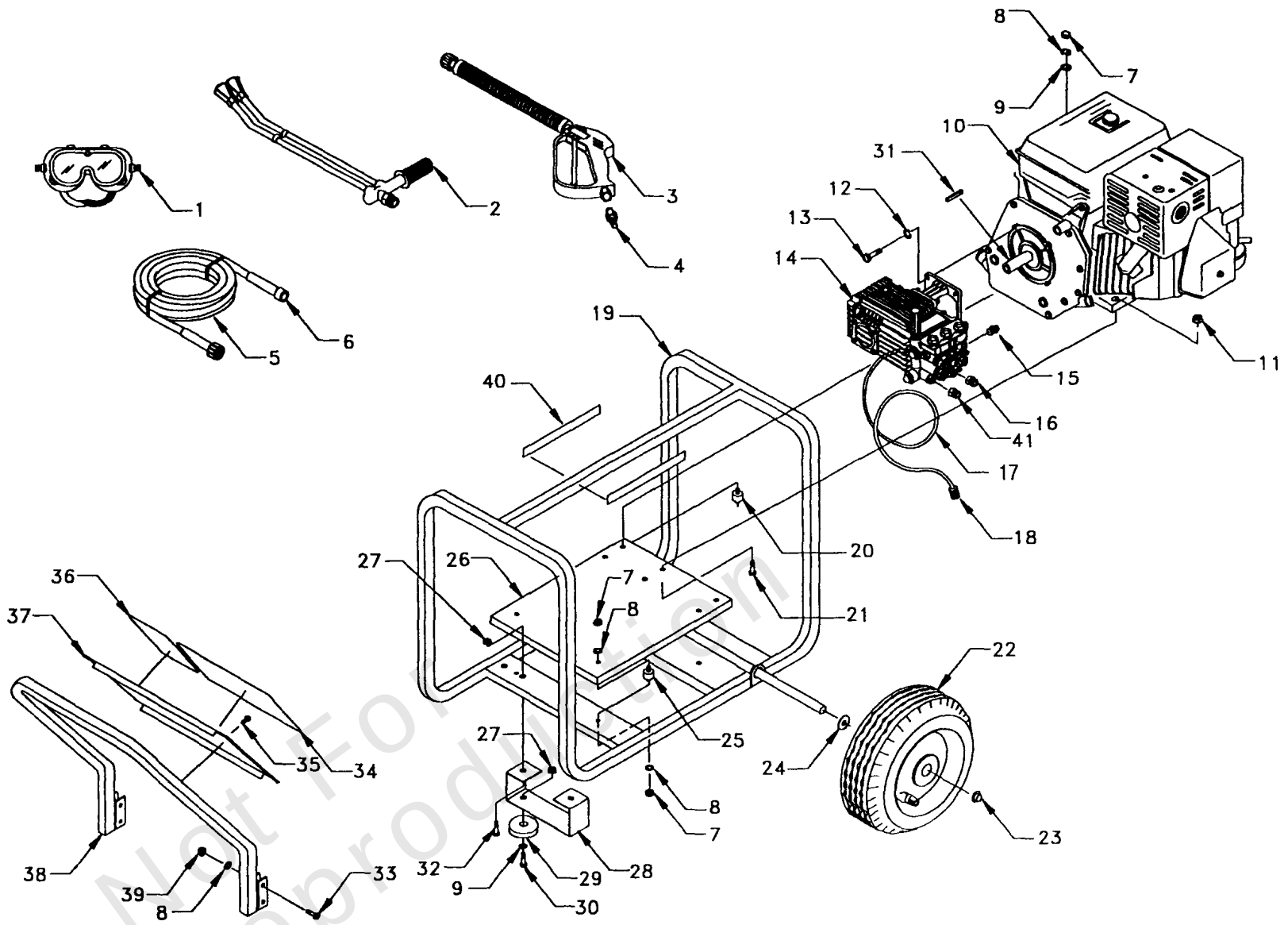

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Pressure Washer

REF NO	PART NO	QTY	DESCRIPTION
1	87815	1	Safety Goggles
2	B1437	1	Dual Lance Extension
3	B1436	1	Gun w/ Molded Grip
4	95459	1	Quick Disconnect For Gun
5	B1411	1	Hose 3600 PSI
6	95458	1	Quick Disconnect For Hose
7	22259	8	Hex Nut 5/16-18
8	22129	8	Lock Washer, 5/16"/M8
9	50190	3	Washer 10 GA
10	B1408	1	Honda Engine
11	52859	3	Locking Nut M10
12	22237	4	Lockwasher, 3/8"
13	23645	4	Bolt 3/8-1 1/4 LG
14	B1410	1	Annovi Pump
15	B1554	1	Thermal Relief
16	B1462	1	Adapter 3/8 NPT
17	A1040C	1	Chemical Hose
18	A1041	1	Hose Filter
19	B1442	1	Cradle 1014-0
20	92609	1	Vib Mount 1.5"
21	64416	3	Bolt M10-1.5 x 45mm Lg.
22	88521	2	Wheel 10"
23	75402	2	Pushnut .50
24	49808	2	Washer M12
25	82857	3	Vib Mount
26	B1482	1	Engine Base
27	52858	4	Lock Nut M8-1.25
28	B1444	1	Cradle Support
29	27007	2	Vib Mount, Donut Type
30	42909	2	Screw M8 - 1.25 x 30mm
31	63281	1	Key 1/4" SQ x 2" LG
32	39253	2	Screw M8 - 1.25x 20mm
33	51731	4	Screw M8-1.25
34	B1471	1	logo Decal
35	86292	4	Self Drilling Screws
36	B1472	1	Starting Instructions Decal
37	B1451	1	Billboard Panel
38	93393B	1	Handle
39	45771	4	Hex Nut M8-1.25
40	93221	2	M.C. Bar Decal
41	95320	1	Connector Garden Hose

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Pump #B1410

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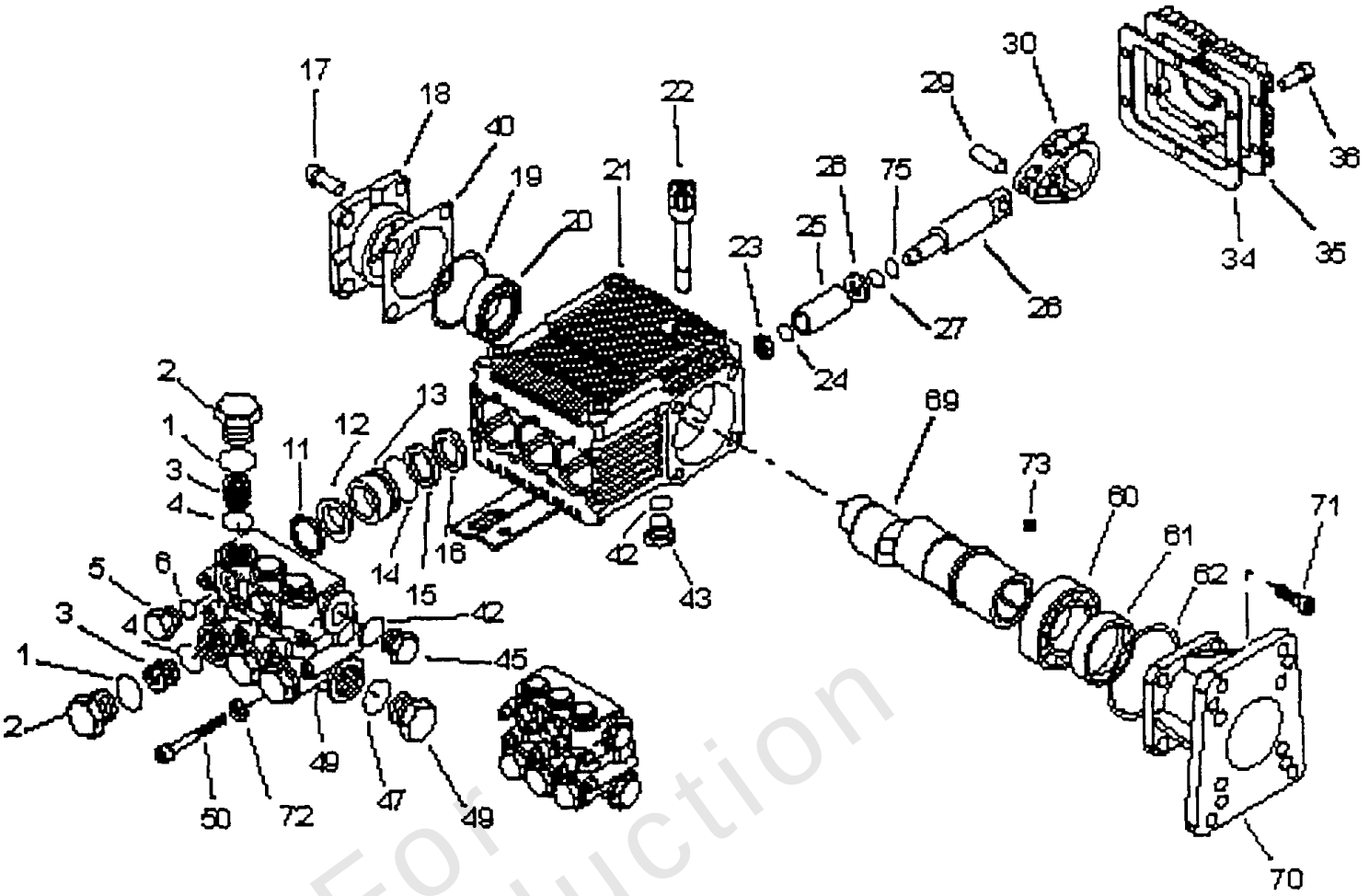

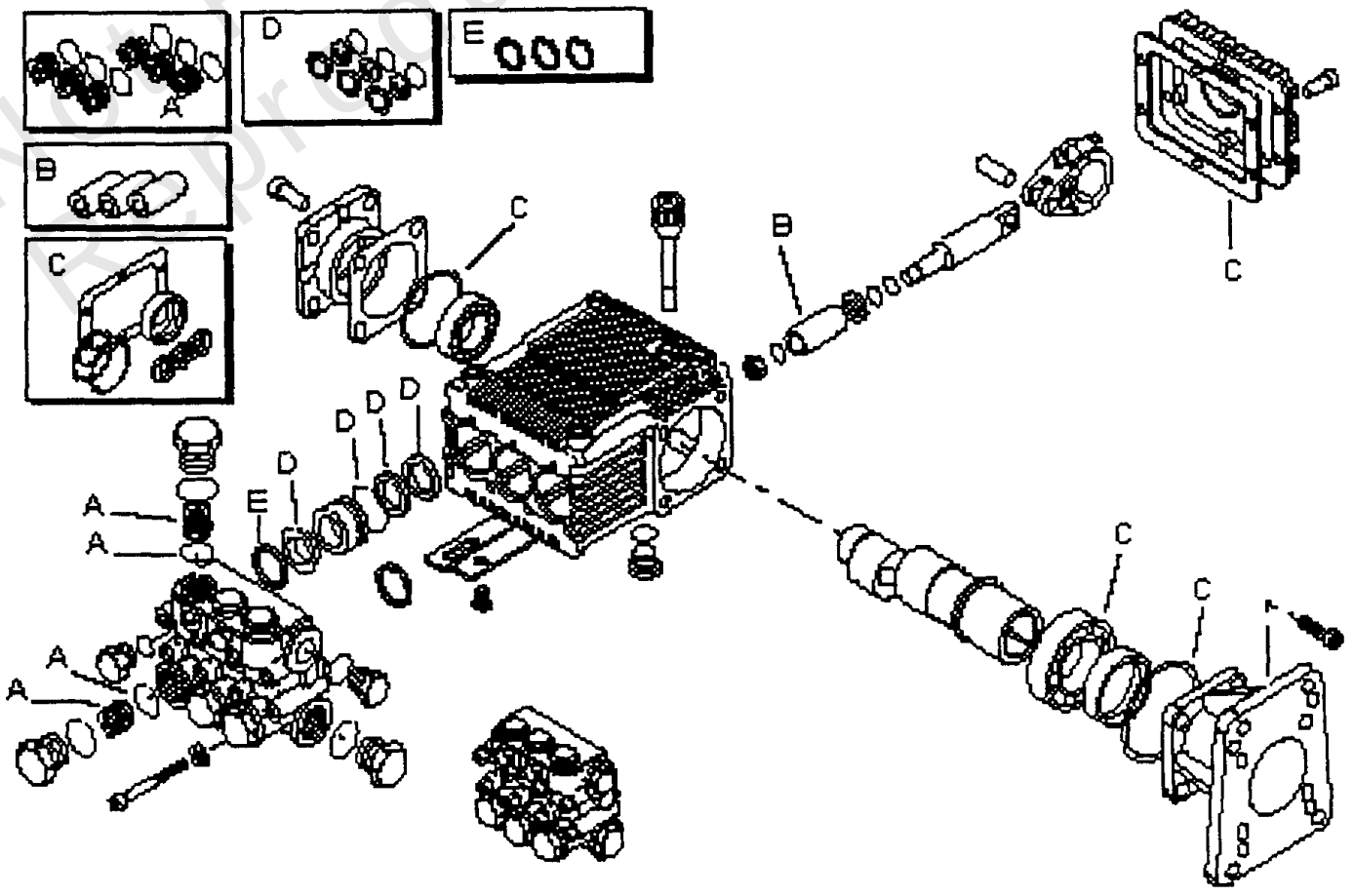

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Pump #B1410

REF NO	PART NO	QTY	DESCRIPTION
1	112B1410	8	Screw
2	113B2327	1	Bearing Support
3	132B2327	1	Shim
4	114B1410	1	O-Ring
5	115B2327	1	Bearing
6	117B2327	1	Oil Cap
7	118B2327	3	Nut
8	119B2327	3	Washer
9	120B2327	3	Ceramic Piston
10	121B2327	3	Spacer
11	11893360P	3	O-Ring
12	123B2327	3	Guiding Piston
13	124B2327	3	Piston Pin
14	125B2327	3	Bronze Con Rod
15	128B2327	6	Screw
16	127B2327	1	Complete Cover
17	126B2327	1	Gasket
18	155B2327	4	Screw
19	140B1410	1	Electric Motor Flange
19	150B2126	1	Gas Engine Flange
20	139B1410	1	O-Ring
21	138B1410	1	Seal
22	137B1410	1	Bearing
23	-----	1	Key
24	142B1410	1	Hollow Shaft
25	134B2327	1	Plug
26	134B2327	2	O-Ring
27	116B2327	1	Pump Housing
28	135B2327	1	Plug
29	134B2126	1	Plug
30	137B2327	1	O-Ring
31	135B1410	1	Pumphead
33	140B2327	8	Screw
34	100B2327	6	O-Ring
35	101B1410	6	Plug
36	102B2327	6	Complete Valve
37	103B2327	6	O-Ring
38	104B1410	2	Plug
39	105B1410	2	O-Ring
40	106B2327	3	Support Ring
41	107B2327	3	Gasket
42	108B2327	3	Piston Guide
43	109B2327	3	O-Ring
44	110B2327	3	Gasket
45	111B2327	3	Seal
47	-----		UNKNOWN
49	-----		UNKNOWN
50	-----		UNKNOWN
60	-----		UNKNOWN
61	-----		UNKNOWN
62	-----		UNKNOWN

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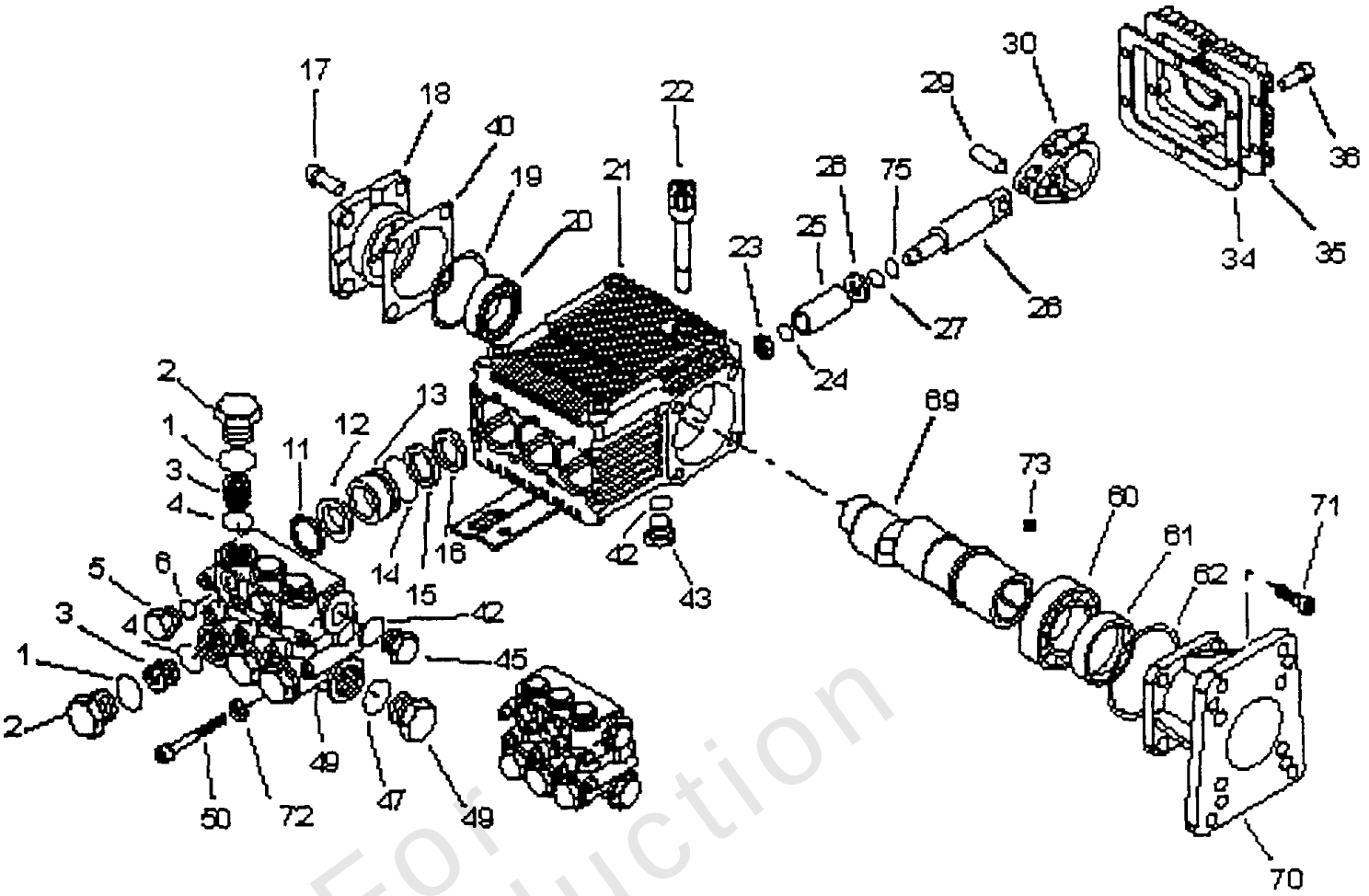
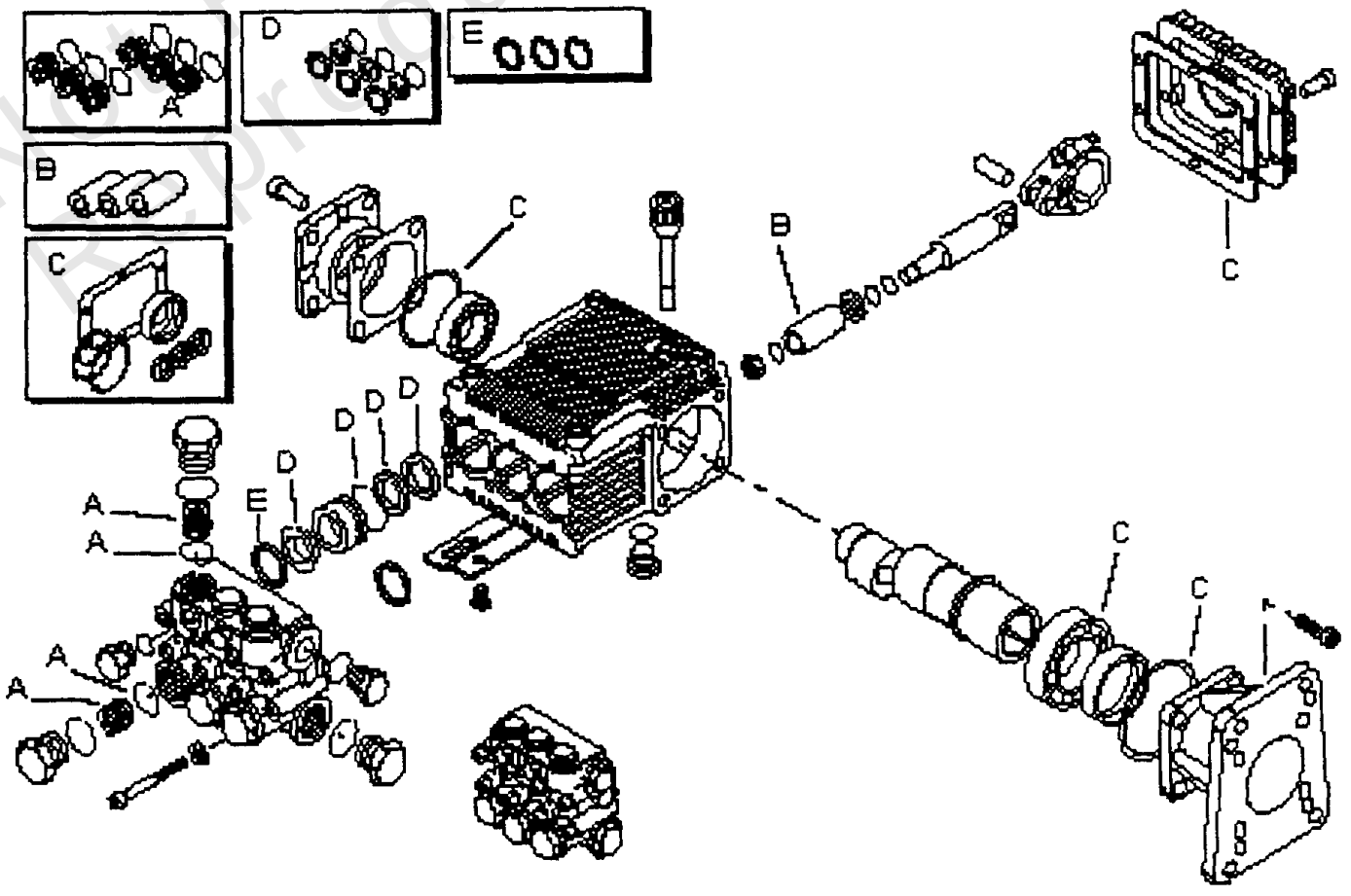
Pump #B1410

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1014-1





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Pump #B1410

REF NO	PART NO	QTY	DESCRIPTION
69	-----		UNKNOWN
70	-----		UNKNOWN
71	-----		UNKNOWN
72	-----		UNKNOWN
73	-----		UNKNOWN
75	-----		UNKNOWN
	155B2327	4	Screw -Items Not Shown
	159B2327	8	Washer -Items Not Shown
	152B2126	1	Grub Screw -Items Not Shown
	161B2327	3	Ring -Items Not Shown
A	200B2327		Valve Kit -Includes 6 of item No(s). 36 and 37
B	201B2327		Piston Kit -Includes 3 of item No. 9
C	202B1410		Oil Seal Kit -Includes 3 of item No. 45; 1 of item No(s). 4, 17, 21, 20
D	203B2327		Water Seal Kit -Includes 3 of item No.(s) 41, 43, 44
E	204B2327		Support Ring Kit -Includes 3 of item No. 40

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Pump #B1410 Regulating Valve

Note: Unless noted otherwise, use the standard torque specifications

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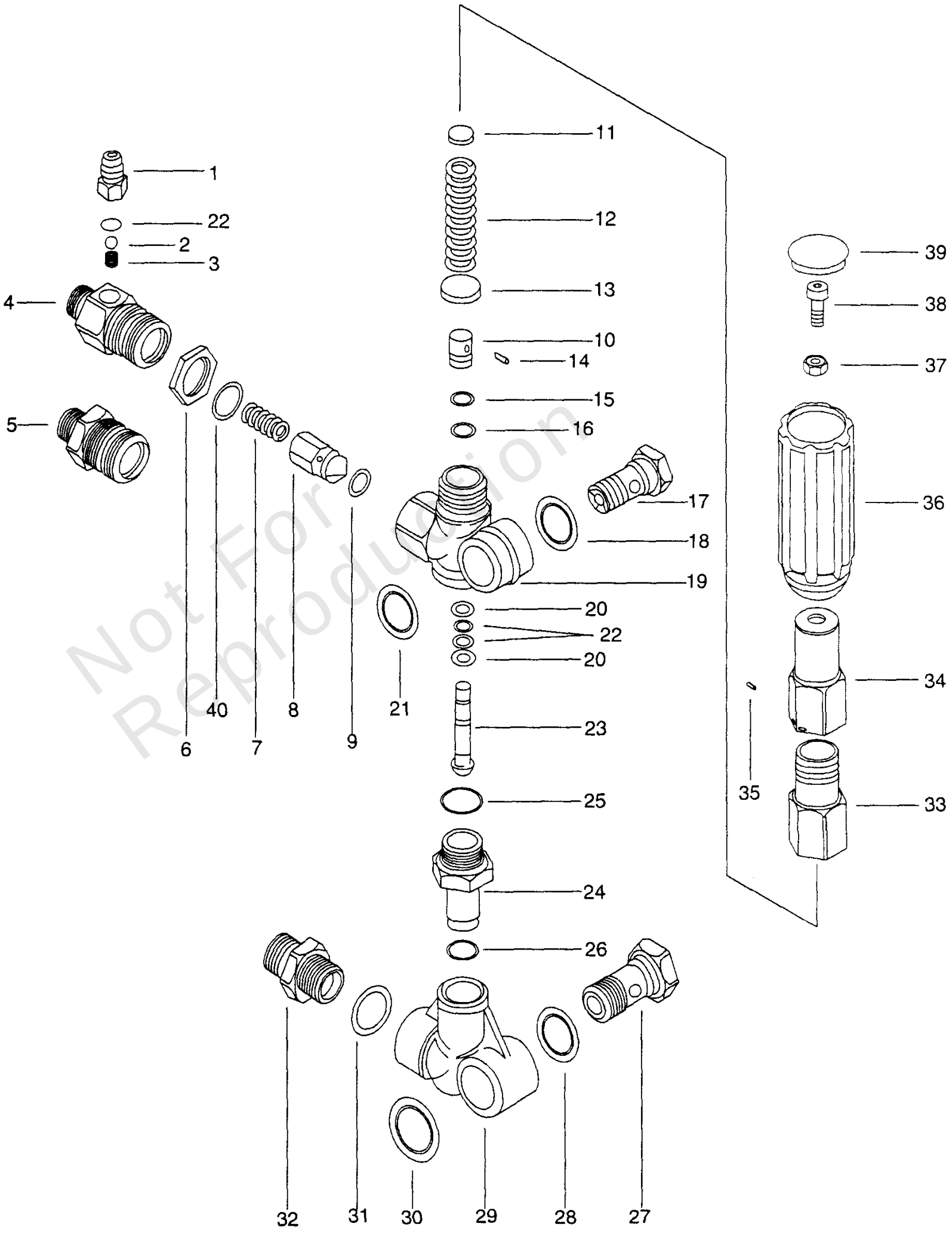

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Pump #B1410 Regulating Valve

REF NO	PART NO	QTY	DESCRIPTION
1	210B2327	1	Hose Tail
2	211B2327	1	Stainless Steel Ball
3	212B2327	1	Spring
4	213B1410	1	Injector Body
5	-----		Not Used
6	215B2327	1	Injector Nut
7	216B2327	1	Spring
8	217B2327	1	Plunger
9	218B2327	1	O-Ring
10	219B2327	1	Upper Piston
11	220B2327	1	Spacer Plate
12	221B2327	1	Spring
13	222B2327	1	Spring, Spacer Plate
14	223B2327	1	Pin
15	224B2327	1	Ring
16	225B2327	1	O-Ring
17	226B2327	1	Inlet Bolt
18	227B2327	1	Washer
19	228B2327	1	Valve Housing
20	229B2327	2	Ring
21	230B2327	1	Washer
22	231B2327	3	O-Ring
23	232B2327	1	Lower Piston
24	233B2327	1	Piston Guide
25	234B2327	1	O-Ring
26	235B2327	1	O-Ring
27	236B2327	1	Inlet Bolt
28	237B2327	1	Washer
29	238B2327	1	Lower By-Pass Fitting
30	239B2327	1	Washer
31	240B2327	1	O-Ring
32	241B2327	1	Suction Fitting
33	242B2327	1	Spring Guide
34	243B2327	1	Press. Reg. Screw
35	244B2327	1	Pin
36	245B2327	1	Press. Reg. Knob
37	246B2327	1	Nut
38	155B2327	1	Screw
39	248B2327	1	Plug
40	137B2327	1	O-Ring
	250B2327		O-Ring Kit -Includes Qty. 1 of item no(s). 9, 15, 16, 18, 21, 25, 26, 28, 30, 31 & 40, Qty 2 of item no. 20 & Qty 3 of item no. 22.

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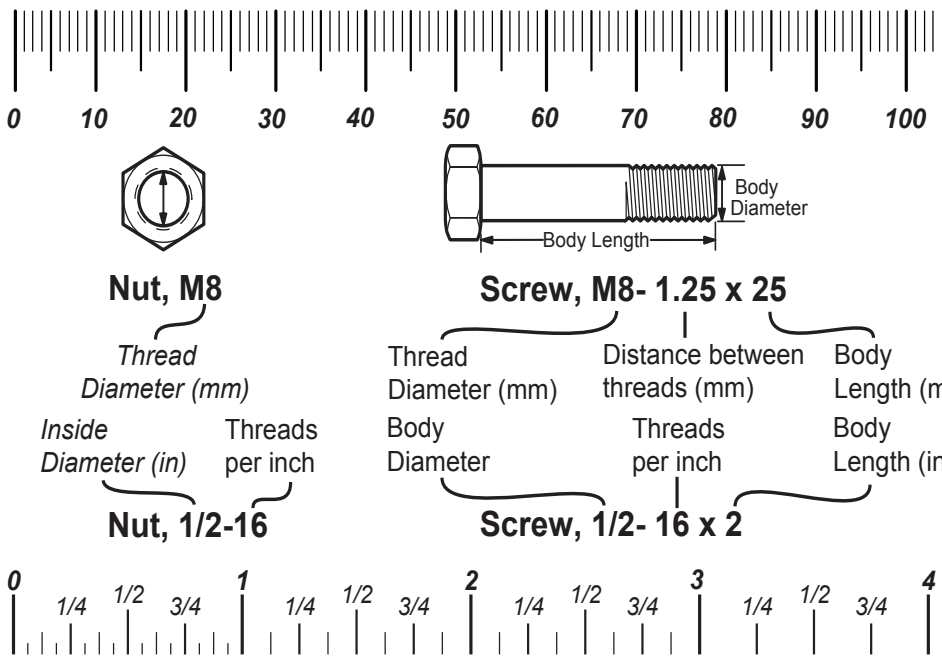
Hardware Identification & Torque Specifications

Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

Property Class	5.6 Class 5.6		8.8 Class 8.8		10.9 Class 10.9		12.9 Class 12.9	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
M3	*5.88*	*.56*	*13.44*	*1.28*	*19.2*	*1.80*	*22.92*	2.15
M4	*13.44*	*1.28*	*30.72*	*2.90*	*43.44*	*4.10*	*52.56*	4.95
M5	*26.4*	*2.50*	*60.96*	*5.75*	**5.97**	*8.10*	**7.15**	9.7
M6	*44.64*	*4.3*	**7.3**	*9.9*	**10.3**	*14*	**12.1**	16.5
M7	**5.2**	*7.1*	**12.1**	*16.5*	**16.9**	*23*	**19.9**	27
M8	**7.7**	*10.5*	**17.7**	*24*	**25**	*34*	**29**	40
M10	**15**	*21*	**35**	*48*	**50**	*67*	**59**	81
M12	**26**	*36*	**61**	*83*	**86.2**	*117*	**103**	140
M14	**42**	*58*	**101**	*132*	**136**	*185*	**162**	220
M16	**64**	*88*	**147**	*200*	**210**	*285*	**250**	340
M18	**89**	*121*	**202**	*275*	**287**	*390*	**346**	470
M20	**126**	*171*	**290**	*390*	**405**	*550*	**486**	660
M22	**169**	*230*	**390**	*530*	**559**	*745*	**656**	890
M24	**217**	*295*	**497**	*375*	**708**	*960*	**840**	1140
M27	**320**	*435*	**733**	*995*	**1032**	*1400*	**1239**	1680
M30	**435**	*590*	**995**	*1350*	**1401**	*1900*	**1681**	2280
M33	**590**	*800*	**1349**	*1830*	**1902**	*2580*	**2278**	3090
M36	**759**	*1030*	**1740**	*2360*	**2441**	*3310*	**2935**	3980
M39	**988**	*1340*	**2249**	*3050*	**3163**	*4290*	**3798**	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number,16, represents the *threads per inch, (distance between threads).* The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart

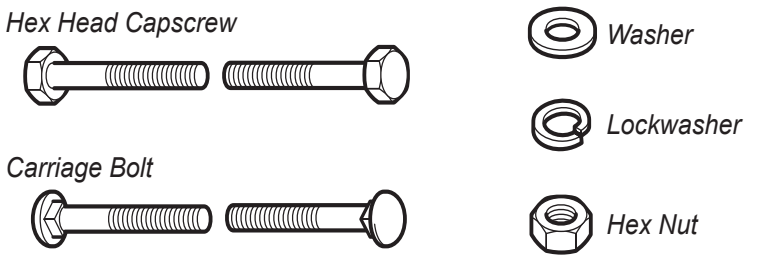
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**29**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

1/4" Bolt or Nut Wrench—7/16"

5/16" Bolt or Nut Wrench—1/2"

3/8" Bolt or Nut Wrench—9/16"

7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"

1/2" Bolt or Nut Wrench—3/4"

M6 Bolt or Nut Wrench—10mm

M8 Bolt or Nut Wrench—13mm

M10 Bolt or Nut Wrench—17mm

M12 Bolt or Nut Wrench—19mm

M14 Bolt or Nut Wrench—22 mm

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