

FA3™

Mechanical fixed flange and rotational alignment tool



The FA3™ is a mechanical fixed flange and rotational alignment tool.

It produces an aligning force of 3.3 T (33 kN) when 50 ft-lbs (68 Nm) of torque is applied to the tool.

33 kN

ALIGNING FORCE (3.3 T)

68 Nm

INPUT TORQUE (50 FT-LBS)

8.1 kg

TOOL WEIGHT (17.82 LBS)

14 kg

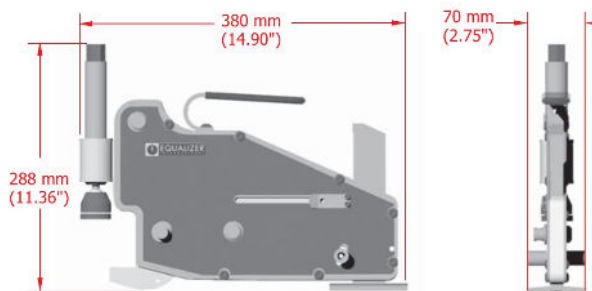
GROSS KIT WEIGHT (30.90 LBS)

KIT COMPONENTS

- 1 × FA3™ tool
- 1 × 50 ft-lbs (67.8 Nm) torque wrench with 22 mm socket
- 1 × Instruction manual
- 1 × Carry-case with protective foam inserts



FA3™ kit

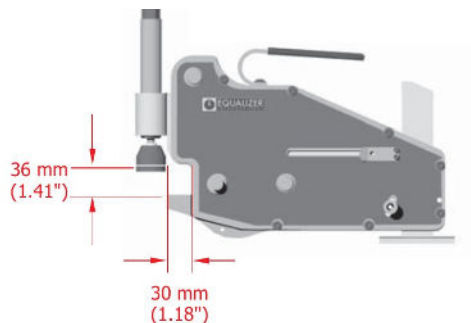


Tool dimensions

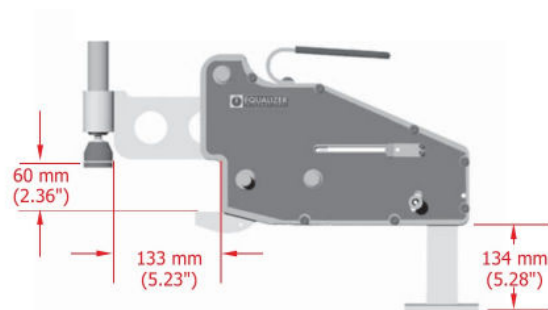
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Mechanical fixed flange and rotational alignment tool

MINIMUM AND MAXIMUM EXTENSION



Minimum extension



Maximum extension

RANGE OF APPLICATION

By flange type, class and diameter

ASME / ANSI B16.5

LAP JOINT FLANGES

150# None
 300# 12" thru 24"
 400# 10" thru 24"
 600# 8" thru 24"
 900# 5" thru 24"
 1500# 4" thru 16"
 2500# 2" thru 10"

SLIP-ON FLANGES

150# 10" thru 24"
 300# 8" thru 24"
 400# 3" thru 24"
 600# 3½" thru 24"
 900# 1" thru 20"
 1500# 1" thru 2½"

THREADED FLANGES

150# 8" thru 24"
 300# 8" thru 24"
 400# 3½" thru 24"
 600# 3½" thru 24"
 900# 1" thru 20"
 1500# 1" thru 10"
 2500# 1" thru 6"

WELD NECK FLANGES

150# 10" thru 24"
 300# 8" thru 24"
 400# 3" thru 24"
 600# 3½" thru 24"
 900# 1" thru 20"
 1500# 1" thru 10"
 2500# 1" thru 6"

SOCKET WELD FLANGES

1500# 1" thru 2½"

API

API STANDARD 605 WELD NECK FLANGES

150# 34" thru 60"
 300# 26" thru 36"

API TYPE 6BX WELD NECK FLANGES

10,000# 2-9/16" thru 5-1/8"
 15,000# 1-13/16" thru 4-1/16"
 20,000# 1-13/16" thru 3-1/16"

API TYPE 6B INTEGRAL FLANGES

10,000# 2-9/16" thru 21-1/4"
 15,000# 1-13/16" thru 13-5/8"
 20,000# 1-13/16" thru 9"

API TYPE 6BX INTEGRAL FLANGES

2000# 3½" thru 21-1/4"
 3000# 2-1/16" thru 16-3/4"
 5000# 2" thru 9"

BS 3293

SLIP-ON FLANGES

150# 26" thru 48"
 300# 26" thru 36"
 400# 26" thru 32"
 600# 26" only

WELD NECK FLANGES

150# 26" thru 48"
 300# 26" thru 36"
 400# 26" thru 32"
 600# 26" only

SLIP-ON FLANGES RTJ

300# 26" thru 36"
 400# 26" only

WELD NECK FLANGES RTJ

300# 26" thru 28"
 400# 26" only

PARTS LIST AND EXPLODED DRAWING

Item	Part no.	Description	Qty
01	400203-01	50 ft-lbs torque wrench	01 each
02	400204-01	22 mm socket	01 each
03	400301-01	Screw bolt	01 each
04	401001-01	Wing c/w boss	01 each
05	401401-02	Inner roller	01 set of 2
06	401501-02	Needle bearing	01 set of 2
07	401601-02	Outer roller	01 set of 2
08	401101-01	Body plates & frame	01 set
09	401301-02	Spiral clip	01 set of 2
10	402001-01	Wing retaining clip	01 each
11	402002-02	M3 screw	01 set of 2
12	402701-02	M5 × 20 mm screw	01 set of 2
13	402801-02	Release knob	01 set of 2
14	401901-14	Screws for side plates	01 set of 14
15	403102-01	Pull ring	01 each
16	403101-01	Pull pin	01 each
17	403201-01	Roll pin	01 each
18	403301-01	Ball spring plunger	01 each
19	403001-01	Lift hook	01 each
20	400401-01	Spring clip	01 each

Item	Part no.	Description	Qty
21	400501-01	Swivel	01 each
22	400601-01	Thrust bearing set	01 each
23	400801-01	Friction pad	01 each
24	400901-01	Retaining screw	01 each
25	402601-02	Counter-sunk screws	01 set of 2
26	402501-01	Drop leg pad	01 each
27	402401-01	Drop leg	01 each
28	402301-01	Grub screw	01 each
29	402201-01	Spring	01 each
30	402901-01	Drop leg lock	01 each
31	402902-01	Adjusting screw	01 each
32	401201-02	Roller pin	01 set of 2
33	308201-01	Handle	01 each
34	401702-01	Handle sleeve – yellow	01 each
35	401801-01	Retaining screw	01 each
36	402101-01	Screw (drop leg)	01 each
37	404501-02	Plastic wing inserts	01 set of 2
38	404601-01	Wire	0.2 m
39	403401-01	Decals set (not illustrated)	01 kit
40	403501-01	Carry-case with foam insert (not illustrated)	01 kit

REPAIR KITS

Repair kit 1 (thrust bearing set), part no. 403601-01: items 20, 22 & 24

Repair kit 2 (roller bearing set), part no. 403701-01: items 5, 6, 7 & 9

Repair kit 3 (tool assembly set), part no. 403801-01: items 10, 11, 14 & 36

Repair kit 4 (drop leg / lock set), part no. 403901-01: items 12, 13, 25, 26, 28, 29, 30 & 31

