

# Valve Automation - Butterfly Valves

## DynaFly 50/52 Series

For General Industrial Applications

Resilient Seated (Lug/Wafer) Electrically Actuated

150 PSI CWP

The DynaFly 50 Wafer and 52 Lug Series are the work horses of industrial butterfly valves. Pre-sized and preassembled with our MA series electric actuators, these valves come standard with ductile iron body and disc and abrasion-resistant black nitrile boot-style seat for quick and easy field repairs. Other voltages and body or seat materials are available on request.

Sizes  
**2"-12"**

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.



- Wafer or Lug Style Ductile Iron Body and Disc
- Nitrile Boot-style Seat
- 17-4 pH Stainless Steel Blowout Proof Stem
- Nema 4 Housing with Manual Override and Handwheel
- Self-locking Gear Train and Reversing Motor

Electric Actuators		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	50F61302E01	50F61302E01B	50F61302E01F	50F61302E01G
2 1/2"	Wafer	50F61325E01	50F61325E01B	50F61325E01F	50F61325E01G
3"	Wafer	50F61303E01	50F61303E01B	50F61303E01F	50F61303E01G
4"	Wafer	50F61304E01	50F61304E01B	50F61304E01F	50F61304E01G
5"	Wafer	50F61305E01	50F61305E01B	50F61305E01F	50F61305E01G
6"	Wafer	50F61306E02	50F61306E02B	50F61306E02F	50F61306E02G
8"	Wafer	50F61308E03	50F61308E03B	50F61308E03F	50F61308E03G
10"	Wafer	50F61310E03	50F61310E03B	50F61310E03F	50F61310E03G
12"	Wafer	50F61312E04	50F61312E04B	50F61312E04F	50F61312E04G

Electric Actuators		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	52F61302E01	52F61302E01B	52F61302E01F	52F61302E01G
2 1/2"	Lug	52F61325E01	52F61325E01B	52F61325E01F	52F61325E01G
3"	Lug	52F61303E01	52F61303E01B	52F61303E01F	52F61303E01G
4"	Lug	52F61304E01	52F61304E01B	52F61304E01F	52F61304E01G
5"	Lug	52F61305E01	52F61305E01B	52F61305E01F	52F61305E01G
6"	Lug	52F61306E02	52F61306E02B	52F61306E02F	52F61306E02G
8"	Lug	52F61308E03	52F61308E03B	52F61308E03F	52F61308E03G
10"	Lug	52F61310E03	52F61310E03B	52F61310E03F	52F61310E03G
12"	Lug	52F61312E04	52F61312E04B	52F61312E04F	52F61312E04G

# Valve Automation - Butterfly Valves

## DynaFly 50/52 Series

For General Industrial Applications

Resilient Seated (Lug/Wafer) Pneumatic Actuated

150 PSI CWP

The **DynaFly 50 Wafer** and **52 Lug Series** are the work horses of industrial butterfly valves.

Sizes  
**2"-12"**

Pre-sized and preassembled with our AP series pneumatic actuators, these valves come standard with ductile iron body and disc and abrasion-resistant black nitrile boot-style seat for quick and easy field repairs. Pilot solenoids, positioners, or other body and seat materials are available on request.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- **Wafer or Lug Style Ductile Iron Body and Disc**
- **Nitrile Boot-style Seat**
- **17-4 pH Stainless Steel Blowout Proof Stem**
- **Double Acting or Spring Return Dual Rack & Pinion Actuators**
- **Alignment Notches at Bottom of Wafer Valve Ease Installation**



Air Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	50F61302D31	50F61302S324	50F61302S324F
2 1/2"	Wafer	50F61325D32	50F61325S065	50F61325S064F
3"	Wafer	50F61303D32	50F61303S065	50F61303S064F
4"	Wafer	50F61304D33	50F61304S345	50F61304S344F
5"	Wafer	50F61305D33	50F61302S085	50F61305S084F
6"	Wafer	50F61306D08	50F61306S104	50F61306S104F
8"	Wafer	50F61308D09	50F61308S385	50F61308S384F
10"	Wafer	50F61310D37	50F61310S395	50F61310S394F
12"	Wafer	50F61312D38	50F61312S405	50F61312S404F

Air Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	52F61302D31	52F61302S324	52F61302S324F
2 1/2"	Lug	52F61325D32	52F61325S065	52F61325S064F
3"	Lug	52F61303D32	52F61303S065	52F61303S064F
4"	Lug	52F61304D33	52F61304S345	52F61304S344F
5"	Lug	52F61305D33	52F61305S085	52F61305S084F
6"	Lug	52F61306D08	52F61306S104	52F61306S104F
8"	Lug	52F61308D09	52F61308S385	52F61308S384F
10"	Lug	52F61310D37	52F61310S395	52F61310S394F
12"	Lug	52F61312D38	52F61312S405	52F61312S404F

# Electric DynaFly Numbering Guide

**6 2 F 6 1 3 0 6 E 0 2 F**

Series      Body/Disc Trim      Seat      Valve Size      Electric Actuator      Options

Series
30 - Wafer Resilient Seat-Nylon
32 - Lug Resilient Seat-Nylon
50 - Wafer Resilient Seat
52 - Lug Resilient Seat
60 - Wafer Cartridge Seat
62 - Lug Cartridge Seat
89 - Wafer Resilient (Split Body) Seat
82 - Lug Resilient (Split Body) Seat

Body/Disc Trim
F1 - (169) Cast Iron / Ductile Iron
F2 - (170) Ductile Iron / Nylon 11 Coated Iron
F3 - (174) Aluminum / Ductile Iron
F4 - (175) Aluminum / Alum-Bronze
F5 - (180) Aluminum / Nylon
F6 - (182) Ductile Iron / Ductile Iron
F7 - (185) Ductile Iron / Aluminum Bronze
F8 - (705) SS / Teflon® coated SS
F9 - (755) SS / SS
FA - (822) Ductile Iron / SS
FB - (828) Aluminum / SS
FC - (823) Cast Iron / SS
FD - (508) Ductile Iron / Teflon
FF - (163) Cast Iron / Bronze
Substitute "U" for "F" to designate undercut disc

Seat
03 - (515) EPDM
07 - (540) Viton®
08 - (561) Silicone
11 - (650) PTFE coated EPDM
12 - (652) PTFE coated BUNA-N
13 - (700) All Season Nitrile

Valve Size
02 - 2"
25 - 2 1/2"
03 - 3"
04 - 4"
05 - 5"
06 - 6"
08 - 8"
10 - 10"
12 - 12"
14 - 14"
16 - 16"
18 - 18"
20 - 20"
24 - 24"
30 - 30"

Electric Actuators
E01 - MA7
E02 - MA13
E03 - MA35
E04 - MA44
E05 - MA57
E06 - MA88
E08 - MA132
E09 - MA177
E10 - MA221
E11 - MA265
E12 - MA309
E13 - MA20



Electric Actuator Options
<b>MA Series</b>
B - 220 VAC PH1
C - 24 VAC PH1
D - 12 VDC
E - 24 VDC
F - 230 VAC PH3
G - 460 VAC PH3

# Pneumatic DynaFly Numbering Guide

**6 2 F A 0 3 1 4 S 4 0 5 D 1**

**Series**

**Body/Disc Trim**

**Seat**

**Valve Size**

**Pneumatic Actuator**

**Options**

## Series

30 - Wafer Resilient Seat-Nylon  
 32 - Lug Resilient Seat-Nylon  
 50 - Wafer Resilient Seat  
 52 - Lug Resilient Seat  
 60 - Wafer Cartridge Seat  
 62 - Lug Cartridge Seat  
 89 - Wafer Resilient (Split Body) Seat  
 82 - Lug Resilient (Split Body) Seat

## Body/Disc Trim

F1 - (169) Cast Iron / Ductile Iron  
 F2 - (170) Ductile Iron /Nylon 11 Iron  
 F3 - (174) Aluminum / Ductile Iron  
 F4 - (175) Aluminum / Alum-Bronze  
 F5 - (180) Aluminum / Nylon  
 F6 - (182) Ductile Iron / Ductile Iron  
 F7 - (185) Ductile Iron / Aluminum Bronze  
 F8 - (705) SS / Teflon® coated SS  
 F9 - (755) SS / SS  
 FA - (822) Ductile Iron / SS  
 FB - (828) Aluminum / SS  
 FC - (823) Cast Iron / SS  
 FD - (508) Ductile Iron / Teflon  
 FF - (163) Cast Iron / Bronze  
 Substitute "U" for "F" to designate undercut disc

## Seat

03 - (515) EPDM  
 07 - (540) Viton®  
 08 - (561) Silicone  
 11 - (650) PTFE coated EPDM  
 12 - (652) PTFE coated BUNA-N  
 13 - (700) All Season Nitrile

## Valve Size

02 - 2"	06 - 6"	16 - 16"
25 - 2 1/2"	08 - 8"	18 - 18"
03 - 3"	10 - 10"	20 - 20"
04 - 4"	12 - 12"	24 - 24"
05 - 5"	14 - 14"	30 - 30"

## Spring Return Pneumatic Actuators

S012 - AP10SR2  
 S022 - AP20SR2  
 S023 - AP20SR3  
 S024 - AP20SR4  
 S033 - AP30SR3  
 S034 - AP30SR4  
 S054 - AP52SR4  
 S064 - AP73SR4  
 S065 - AP73SR5  
 S074 - AP103SR4  
 S075 - AP103SR5  
 S084 - AP148SR4  
 S094 - AP222SR4  
 S103 - AP295SR3  
 S104 - AP295SR4  
 S105 - AP295SR5  
 S114 - AP470SR4  
 S115 - AP470SR5  
 S315 - APU30SR5  
 S325 - APU52SR5  
 S335 - APU73SR5  
 S345 - APU103SR5  
 S355 - APU148SR5  
 S365 - APU222SR5  
 S374 - APU295SR4  
 S375 - APU295SR5  
 S384 - APU470SR4  
 S385 - APU470SR5  
 S395 - APU586SR5  
 S405 - APU900SR5  
 S415 - APU1213SR5  
 S425 - APU2366SR5  
 S435 - APU2958SR5  
 S445 - APU3720SR5

## Double Acting Pneumatic Actuators

D01 - AP10DA	D09 - AP222DA	D37 - APU295DA
D02 - AP20DA	D10 - AP295DA	D38 - APU470DA
D03 - AP30DA	D31 - APU30DA	D39 - APU586DA
D04 - AP34DA	D32 - APU52DA	D40 - APU900DA
D05 - AP52DA	D33 - APU73DA	D41 - APU1213DA
D06 - AP73DA	D34 - APU103DA	D42 - APU2366DA
D07 - AP103DA	D35 - APU148DA	D43 - APU2958DA
D08 - AP148DA	D36 - APU222DA	D44 - APU3720DA



## Pneumatic Actuator Options

A - Solenoid Pilot Valve, 120AC  
 A2 - Solenoid Pilot Valve, 24VAC  
 A3 - Solenoid Pilot Valve, 24VDC  
 A4 - Solenoid Pilot Valve, 12VDC  
 B - Limit Switch, 2 SPDT Switches (145820.01)  
 B2 - Limit Switch, 2 SPDT Switches (NEMA 4, 4x, 7, 9)  
 C - Pneu Positioner w/gauges 3-15psi (40N-S1N-SF)  
 D - Electro-Pneu Positioner, 4-20 mA (41N-E1N-SF)  
 F - Fail "Open"