



# ITT

**Dia-Flo<sup>®</sup>**  
**Diaphragm Valves**

## Other Information



**Contained in this section:**

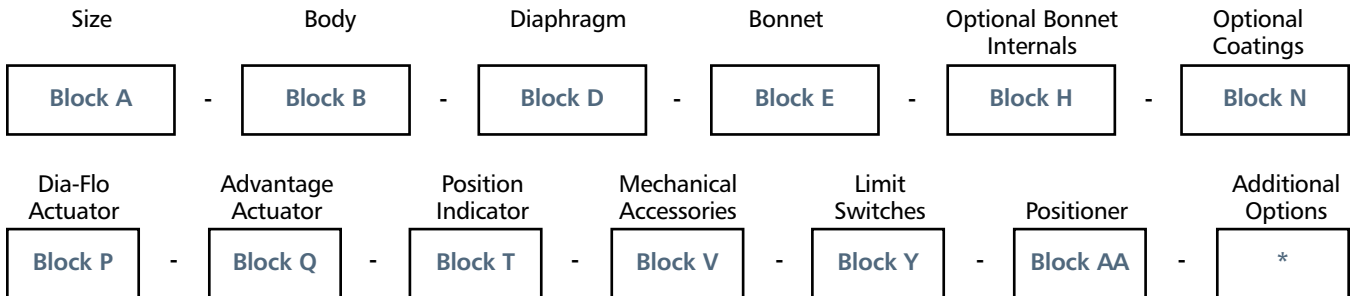
- How To Order
- Maintenance Instructions
- Flange Gasket and Storage Recommendations
- Actuator Diaphragm Identification
- Facts and Recommended Guidelines
- Terms and Conditions

6. OTHER INFORMATION

*Engineered for life*

## Ordering Information

### Dia-Flo Figure Number Block Sequence for Weir Valves



The above blocks are the most commonly used. For a complete listing see the Other Blocks listed on pg 4

### Constructing Figure Numbers

Below are examples for constructing a manual and actuated valve figure number.

#### Manual Valve Example

**Figure Number:** 1-2401-TM-903

Detailed description:

1: 1 inch size  
 2401: Cast Iron, Screwed end valve  
 TM: Modified PTFE Diaphragm (FDA)  
 903: Cast Iron Handwheel Operated Bonnet Assembly, Indicating w/Travel Stop

#### Actuated Valve Example

**Figure Number:** 3-2521-T-34-3125

Detailed description:

3: 3 inch size  
 2521: Cast Iron, Flanged End Valve, Lined with Hard Rubber No. 10  
 T: Neoprene Diaphragm  
 34: Ductile Iron Actuated Bonnet  
 3125: #25 Fail Open (air to close - spring to open) Actuator

#### Block A - Size

Code	Description
.50	.50 Inch
.75	.75 Inch
1	1 Inch
1.25	1.25 Inch
1.5	1.5 Inch
2	2 Inch
2.5	2.5 Inch
3	3 Inch
4	4 Inch
6	6 Inch
8	8 Inch
10	10 Inch
12	12 Inch

## Ordering Information

**Block B – Body**
**Weir Bodies, Unlined**

Code	Body Material	Size
<b>NO BODY SUPPLIED</b>		
2000	No Body (Bonnet Only)	1/2-12"

**SCREWED**

Code	Body Material	Size
2401	Iron	1/2-3"
2402	Bronze	1/2-3"
2403	Stainless Steel (316)	1/2-3"
2405	Cast Steel	1-3"
2406	Solid PVC	1/2-2"
2407	CN7M	1/2-3"
2408	Monel	1/2-3"
2410	Hastelloy	1/2-3"
2412	Ductile iron	1-3"
2414	Solid PP (FDA)	1/2-2"
2416	CPVC	1/2-2"
2417	PVDF* (FDA)	1/2-2"

**FLANGED**

Code	Body Material	Size
2431	Cast Iron	1/2-12"
2432	Bronze	1/2-6"
2433R	Stainless Steel (316)	1/2-8"
2434R	Stainless Steel (316L)	1/2-8"
2435R	Cast Steel	1/2-8"
2436	Solid PVC	1/2-4"
2437R	CN7M	1/2-8"
2438R	Monel	1/2-8"
2440R	Hastelloy	1/2-8"
2441	Ductile Iron	1/2-8"
2442	Solid CPVC	1/2-2"
2444	Solid PP (FDA)	1/2-4"
2447	Solid PVDF* (FDA)	1/2-4"

**SOCKET SOLDER**

Code	Body Material	Size
2456	Bronze	1/2-2"

**SOCKETWELD**

Code	Body Material	Size
2424	Solid PP (FDA)	1/2-2"
2427	Solid PVDF* (FDA)	1/2-2"
2451	Solid PVC	1/2-2"
2463	Solid CPVC	1/2-2"
2470	Stainless Steel (316L)	1/2-3"
2472	Cast Steel	1/2-3"
2474	CN7M	1/2-3"

**BUTTWELD (316L)**

Code	Body Material	Size
2464	Stainless Steel Sch. 5	1/2-8"
2465	Stainless Steel Sch. 10	1/2-8"
2466	Stainless Steel Sch. 40	1/2-8"

**SPIGOT WELD**

Code	Body Material	Size
2443	CPVC (IPS)	1/2-2"
2484	Solid PP (FDA, DIN)	1/2-4"
2486	PVC (IPS)	1/2-4"
2487	Solid PVDF* (FDA, DIN)	1/2-4"

**Weir Bodies, Lined**

Code	Lining Material	Size
<b>FLANGED CAST IRON</b>		
2501	Neoprene No. 7	1/2-12"
2511	Glass Lined (FDA)	1/2-8"
2516	Soft Rubber No. 5	1/2-12"
2521	Hard Rubber No. 10	1/2-12"
2522	Butyl Lined	1/2-12"
2523	Hypalon Lined	1/2-12"
2536	PVC Lined	3/4-8"
2538	PP Lined (FDA)	3/4-8"
2539	PP* Lined (FDA)	3/4-8"
2529	Tefzel Lined	3/4-8"
2575	PVDF* Lined (FDA)	3/4-8"

**Weir Bodies, Lined (con't)**

Code	Lining Material	Size
<b>FLANGED DUCTILE IRON</b>		
2544	Glass Lined (FDA)	1/2-8"
2550	Neoprene No. 7	1/2-8"
2551	Soft Rubber No. 5	1/2-8"
2552	Hard Rubber No. 10	1/2-8"
2555	PVDF* Lined (FDA)	3/4-8"
2556	PFA Lined (FDA)	1"-6"
2558	PP Lined (FDA)	3/4-8"
2559	Tefzel Lined	3/4-8"

**FLANGED CAST STEEL**

Code	Lining Material	Size
2545	Tefzel Lined	3/4-8"
2546	PP Lined (FDA)	3/4-8"
2548	PVDF* Lined (FDA)	3/4-8"
2561	Neoprene No. 7	1/2-8"
2563	Hard Rubber No. 10	1/2-8"

**FLANGED STAINLESS STEEL**

Code	Lining Material	Size
2549	Tefzel Lined	3/4-8"

**ANSI FACE-TO-FACE BODIES**

Code	Lining Material	Size
2540A	CF8M Stainless Steel PFA Lined	1"-2"
2556A	A395 Ductile Iron PFA Lined	1"-2"
2433A	CF8M Stainless Steel Unlined	1"-2"

**Block D – Diaphragms**
**WEIR TYPE**

Code	Material	Size
B	Black Butyl (FDA)	1/2-12"
C	Hypalon	1/2-12"
M	EPDM	1/2-12"
17	EPDM (FDA)	1/2-8"
P	BUNA - N (FDA)	1/2-12"
S	Natural Rubber	1/2-8"
T	Neoprene	1/2-12"
W1	White Butyl (FDA)	1/2-6"
DP	Buna N Direct Loaded (FDA)	1/2-3"
V	Viton	1/2-6"
TM	Modified PTFE (FDA)	1/2-6"
R2	PTFE (FDA)	8", 10"
EN	Elastomer Not Supplied	1/2-12"
PN	PTFE Not Supplied	1/2-10"

**Block E – Bonnet**
**Bonnets, Handwheel**

Code	Bonnet Description	Size
<b>CAST IRON</b>		
902	Indicating	6-12"
902S	Indicating – Sealed	6-12"
903	Indicating w/Travel Stop	1/2-12"
903S	Indicating w/Travel Stop – Sealed	1/2-12"

**STAINLESS STEEL (316)**

Code	Bonnet Description	Size
912	Indicating	6-12"
912S	Indicating – Sealed	6-12"

**STAINLESS STEEL (316)**

Code	Bonnet Description	Size
913	Indicating w/Travel Stop	1/2-12"
913S	Indicating w/Travel Stop – Sealed	1/2-12"

**POLYPROPYLENE**

Code	Bonnet Description	Size
923	Indicating w/Travel Stop	1/2-4"

**Bonnets, Handwheel (con't)**

Code	Bonnet Description	Size
<b>BRONZE</b>		
932	Indicating	6-12"
932S	Indicating - Sealed	6-12"
933	Indicating w/Travel Stop	1/2-4"
933S	Indicating w/Travel Stop – Sealed	1/2-4"

**DUCTILE IRON**

Code	Bonnet Description	Size
942	Indicating	6-8"
942S	Indicating - Sealed	6-8"
943	Indicating w/Travel Stop	1/2-8"
943S	Indicating w/Travel Stop – Sealed	1/2-8"

**PLASTIC PAS**

Code	Bonnet Description	Size
963	Indicating w/Travel Stop	1/2- 4"
963S	Indicating w/Travel Stop - Sealed	1/2- 4"

**Bonnets, Chainwheel**

Code	Bonnet Description	Size
<b>CAST IRON</b>		
905	Indicating w/Travel Stop	1/2-12"
905S	Indicating w/Travel Stop – Sealed	1/2-12"

**STAINLESS STEEL (316)**

Code	Bonnet Description	Size
915	Indicating w/Travel Stop	1/2-12"
915S	Indicating w/Travel Stop – Sealed	1/2-12"

**BRONZE**

Code	Bonnet Description	Size
935	Indicating w/Travel Stop	1/2- 4"
935S	Indicating w/Travel Stop – Sealed	1/2- 4"

**DUCTILE IRON**

Code	Bonnet Description	Size
945	Indicating w/Travel Stop	1/2- 6"
945S	Indicating w/Travel Stop – Sealed	1/2- 6"

**Actuated Bonnets**

Code	Bonnet Description	Size
<b>STAINLESS STEEL</b>		
31	Actuated	1/2- 6"
31S	Actuated - Sealed	1/2- 6"

**BRONZE**

Code	Bonnet Description	Size
33	Actuated	1/2- 6"
33S	Actuated - Sealed	1/2- 6"

**DUCTILE IRON (34 is std. – Dia-Flo Actuator)**

Code	Bonnet Description	Size
34	Actuated	1/2- 10"
34S	Actuated - Sealed	1/2- 10"
84	Dual Range	1- 6"
84S	Dual Range Sealed	1- 6"

**PLASTIC PAS**

Code	Bonnet Description	Size
(36 is std. - Advantage Actuator)		
36	Actuated	1/2- 4"
36S	Actuated – Sealed	1/2- 4"

**CAST IRON**

Code	Bonnet Description	Size
40	Direct Load	1/2- 3"

\*unpigmented

## Ordering Information

### Block H – Optional Bonnet Internals

Code	Description
M2	Sanitary Internals
M5	Stainless Steel Stem
M6	Cast Iron Compressor
M7	Bronze Compressor
M8	PVDF Coated Cast Iron Compressor
M9	Stainless Steel Bushing
M10	Stainless Steel Tube Nut
M11	316 Stainless Steel Stem
M14	Clear Cap

### Block N – Optional Coating

Code	Description
C1	PVDF Coated Topworks
C2	PVDF Coated Body
C3	PVDF Coated Body & Topworks
C4	White Epoxy Coated Topworks
C5	White Epoxy Coated Body
C6	White Epoxy Coated Body & Topworks
C7	Nylon Coated Topworks (Bonnet for 3" & 4" Advantage only)

### Adapted for but less ITT Actuation (Block P2)

Code	Description
Y	Adapted for but less ITT Engineered Valves Air Motor

### Block P – Dia-Flo Actuator

#### Fail Open Actuators (Spring to Open - Air to Close)

Code	Actuator Size
3112	#12
3125	#25
3150	#50
31101	#101
31130	#130
31250	#250

#### Fail Closed Actuators (Air to Open - Spring to Close)

Code	Actuator Size
3212	#12
3225	#25
3250	#50
3275	#75
32101	#101
32130	#130
32250	#250

Code	Spring Description
SIZE #12	
3213	88 Spring
3214	88 & 89 Springs
3215	88 & Raymond Springs
3216	89 Spring
SIZE #25	
3226	101 Spring
3227	101 & 102A Springs
3228	102A Spring

### Fail Closed Actuators (con't) (Air to Open - Spring to Close)

Code	Spring Description
SIZE #50	
3251	101 Spring
3252	101 & 102A Springs
3253	97 Spring
3254	96 Spring
3255	96 & 97 Springs
3256	102A Spring
SIZE #75	
3274	96 Spring
3276	96 & 97 Springs
3277	97 & 98 Springs
3278	96 & 98 Springs
3279	96, 97 & 98 Springs

Code	Spring Description
SIZE #101	
32102	96 Spring
32103	98 Spring
32104	96 & 97 Springs
32105	96 & 98 Springs
32106	97 & 98 Springs
32107	96, 97, & 98 Springs
32108	130 Spring
32109	97 Spring

Code	Spring Description
SIZE #130	
32131	97 Spring
32132	96 Spring
32133	98 Spring
32134	96 & 97 Springs
32135	96 & 98 Springs
32136	97 & 98 Springs
32137	96, 97, & 98 Springs
32138	130 Spring

Code	Spring Description
SIZE #250	
32251	129 & 130 Springs
32252	129 Spring
32253	130 Spring

### Double Acting Actuators (Air to Open - Air to Close)

Code	Actuator Size
3312	#12
3325	#25
3350	#50
3375	#75
33101	#101
33130	#130
33250	#250

### Optional Air Motor Covers (Block P1)

Code	Description
DICVR	Ductile Iron

### Block Q – Advantage Actuator

#### Fail Open

Code	Actuator Series
A105	# 5
A108	# 8
A116	# 16
A133	# 33
A147	# 47

### Fail Closed

Code	Actuator Series
A205	# 5
A206	# 5
A208	# 8
A209	# 8
A215	# 16
A216	# 16
A217	# 16
A232	# 33
A233	# 33
A234	# 33
A235	# 33
A247	# 47
A248	# 47

### Double Acting

Code	Actuator Series
A305	# 5
A308	# 8
A316	# 16
A333	# 33
A347	# 47

### Block T – Position Indicator

Code	Description
P1	Position Indicator

### Block V – Mechanical Accessories

Code	Description
AO	Adjustable Opening Stop
ATS	Adjustable Travel Stop
WO	Wrench Opening Device
HWO	Handwheel Opening Device
TOHO	Adjustable Opening Stop and Handwheel Opening Device
TOWO	Adjustable Opening Stop and Wrench Opening Device
HWC	Handwheel Closing Device
TO	Adjustable Opening Stop and Adjustable Travel Stop
THC	Adjustable Opening, Adjustable Travel Stop and Handwheel Closing Device (#25 AM and larger)
TOHC	Adjustable Opening, Adjustable Travel Stop and Handwheel Closing Device (#12 AM only)

### Block Y – Limit Switches

Code	Description
LS1	Micro BZE6 - 2RN
LS2	Micro BAF1 - 2RN
LS3	Micro DTE6 - 2RN
LS4	Micro DTF2 - 2RN
LS5	Micro EXQ
LS6	Micro EXDQ
LS7	Micro LSA1A
LS8	Westlock 3479 Model 3
LS9	GO 74-13528-A2
LS10	Namco EA700-80100
LS11	Westlock E3479 Model 3
LS12	Namco EA170-34100 / 35100
LS16	Westlock 9881
LS17	Westlock E9881

## Ordering Information

### Optional Limit Switch Position (Block Y1)

Code	Description
LSO	Limit Switch – Open Only
LSC	Limit Switch – Closed Only

### Block AA – Positioner\*

Code	Description	Size
PR1 <sup>1</sup>	Conoflow Model 31	1 1/2-12"
PR2 <sup>2</sup>	Conoflow Model 33	1 1/2-12"
PR3 <sup>1</sup>	Moore 73N12F	1/2-6"
PR4 <sup>2</sup>	Moore 73 NB	1/2-6"
PR5	Moore 73 NFR	1/2-6"
PR6 <sup>3</sup>	Conoflow P50	1 1/2-12"
PR7 <sup>3</sup>	Conoflow P51	1 1/2-12"
PR8 <sup>3</sup>	Conoflow P52	1 1/2-12"

Note: Only Codes PR3-PR5 are available for Advantage Actuators

<sup>1</sup> Fail Open & Double Acting Actuators Only

<sup>2</sup> Fail Closed Actuators Only

<sup>3</sup> Requires yoke mounted actuator

<sup>4</sup> Fail Open Actuators Only

<sup>5</sup> Direct Acting Actuators Only

### Other Blocks

#### Bonnet Seal Materials (Block F)

Code	Seal Material
S1	EPDM
S2	FKM

#### Optional Bolting (Block G)

Code	Description
B1	Stainless Steel
B316	Stainless Steel (316)
BTFE	XYLAN 1014 Coated B7
B72H	B7 Bolt / 2H Nut
B88	B8 Bolt / 8 Nut
BA20	Alloy 20

#### Yoke (Block K)

Code	Description
Y	Yoke Supplied

#### Locking Device (Block L)

Code	Description
LD	Locking Device

#### Extended Stem (Block M)

Code	Description
EXTSTEM	Extended Stem

#### Non EV Actuation (Block R & S)

Code	Description
POF	Non-EV Customer Supplied Actuator (mounted)
POA	Adapted For But Less Customer Supplied Actuator
POM	Non-EV Actuator Supplied and Mounted by Engineered Valves

### Actuator Hardware Options (Block U)

Code	Description
HW1	SS Airmotor Bolts
HW2	SS Accessory Brackets
HW3	316 SS Tubing and Fittings
HW4	Plastic Tubing / Brass Fittings
HW5	PVC Coated Tubing / Brass Fittings
HW6	PVC Coated Tubing / SS Fittings

### Solenoid Valve (Block W)

Code	Description
SV1	Asco 8320G184, 3-way
SV2	Asco EF8320G184, 3-way
SV3	Asco 8345G1, 4-way
SV4	Asco EF8345G1, 4-way
SV7	Asco 8320G202, 3-way
SV8	Asco EF8320G202, 3-way
SV9	Asco EF8320G45, 3-way
SV10	Asco EF8320G174, 3-way
SV13	Asco 8320G174, 3-way
SV14	Burkert 6012 Series (Recommended for Advantage)
SV15	Burkert 6014 Series (Recommended for Advantage)

### Solenoid Voltage (Block X)

Code	Description
V1	120V / 60HZ
V2	24VDC
V3	240V / 60HZ

### Adv. Switch Pack SP-2 (Block Z)

Code	Description	Size
SP2S	Silver Contacts	1/2-4"
SP2G	Gold Contacts	1/2-4"
SP2Z	2-Wire Prox.	1/2-4"
SP2N	NAMUR Prox.	1/2-4"
SP2P	3-Wire PNP Prox.	1/2-4"
SP2NP	3 Wire NPN Prox.	1/2-4"

### Adv. Switch Pack SP-3 (Block Z3)

Code	Description	Size
SP3S48	Silver Contacts 48V	1/2-2"
SP3S110	Silver Contacts 110V	1/2-2"
SP3G30	Gold Contacts 30V	1/2-2"
SP3Z	2-Wire Proximity	1/2-2"
SP3N	NAMUR Proximity	1/2-2"
SP3P	3-Wire PNP Proximity	1/2-2"
SP3NP	3 Wire NPN Proximity	1/2-2"

### Signal Ranges (Block AB)

Code	Description
SR1	3-15 PSI
SR2	6-30 PSI
SR3	3-9 PSI
SR4	9-15 PSI

### Filter Regulators (Block AC)

Code	Description
FR1	Conoflow FR95ASKEX1G
FR2	Fisher 67CFR

### Transducer (Block AD)\*

Code	Description
TR1	Conoflow GT2108ED
TRWS	Watson & Smith 53-4904-3XR

### Speed Controllers (Block AE)

Code	Description
SC	Schrader 337-1001

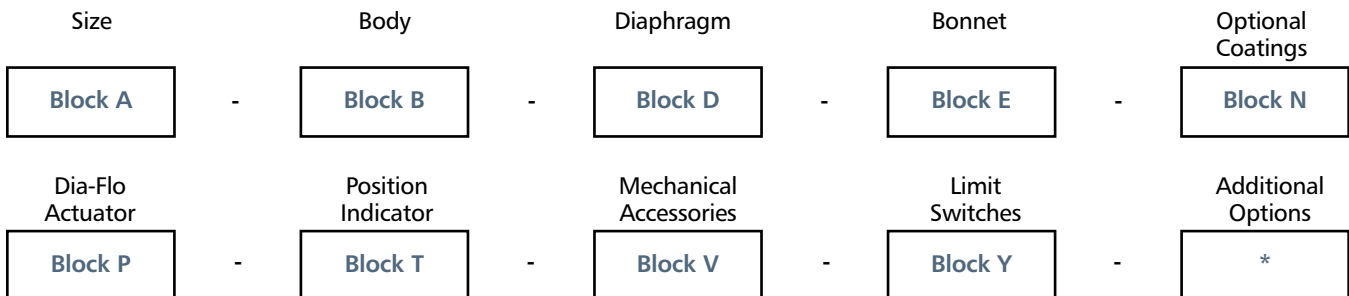
### Special Service/Preparation (Block SPSEPV)

Code	Description
SPEC	Special Service per Customer Specification
VAC	Vacuum
OXY	Oxygen
TOB	Tobacco
WCL2	Wet Chlorine
SIFREE	Silicone-Free
B311	ASME B31.1
B1634	ANSI B16.34
SP88CATB	MSS SP-88 CAT. B

\*The options listed are for 3-15 psi. For other optional instrument signals, contact factory.

## Ordering Information

### Dia-Flo Figure Number Block Sequence for Straightway Valves



The above blocks are the most commonly used. For a complete listing see the Other Blocks listed on pg 7

#### Manual Valve Example

**Figure Number:** 3-2834-SS-902

Detailed description:

3: 3 inch size

2834: Cast Iron Body Flanged Ends with No. 10 Hard Rubber Lining

SS: Natural Rubber Diaphragm

902: Cast Iron Handwheel Operated Bonnet Assembly, Indicating

#### Actuated Valve Example

**Figure Number:** 2-2801-ST-34-3325

Detailed description:

2: 2 inch size

2801: Iron Body Screwed End ITT Straightway Body

ST: Neoprene Diaphragm

34: Ductile Iron Actuated Bonnet

3325: #25 Double Acting (air to open - air to close) Actuator

#### Block A - Size

Code	Description
1	1 Inch
1.5	1.5 Inch
2	2 Inch
2.5	2.5 Inch
3	3 Inch
4	4 Inch
6	6 Inch
8	8 Inch
10	10 Inch
12	12 Inch

## Ordering Information

### Block B Straightway Bodies, Unlined

Code	Body Material	Size
2800	No Body (Bonnet Assembly Only)	1/2-12"

#### FLANGED \*

2811	Cast Iron	1-12"
2812	Ductile Iron	1-12"
2813R	Stainless Steel (316)	1/2-8"
2815R	Cast Steel	1/2-8"

### Straightway Bodies, Lined

Code	Lining Material	Size
<b>FLANGED CAST IRON</b>		
2829	Tefzel	1-8"
2831	Neoprene No.7	1-12"
2833	Soft Rubber No. 5	1-12"
2834	Hard Rubber No.10	1-12"
2835	Hypalon No. 9	1-12"
2836	Butyl No. 16	1-12"
2838	Polypropylene (FDA)	1-8"

<b>FLANGED CAST STEEL</b>		
2863	Hard Rubber No. 10	1-6"

<b>FLANGED DUCTILE IRON</b>		
2840	Neoprene No. 7	1-12"
2841	Soft Rubber No. 5	1-12"
2842	Hard Rubber No 10	1-12"
2859	Tefzel	1-8"

\* R - Raised Face

### Block D – Diaphragms STRAIGHTWAY TYPE

Code	Material	Size
SB	Black Butyl (FDA)	1-4"
SS	Natural Rubber	1-12"
ST	Neoprene	1-12"
SE	EPDM (FDA)	1-12"
SC	Hypalon	1-4"
SP	BUNA - N (FDA)	1-2,3-6"
EN	Not Supplied	1-12"

### Block E – Bonnet Bonnets, Handwheel

Code	Bonnet Description
<b>CAST IRON</b>	
902	Indicating
902S	Indicating - Sealed
903	Indicating w/Travel Stop
903S	Indicating w/Travel Stop - Sealed

<b>DUCTILE IRON</b>	
942	Indicating
942S	Indicating - Sealed
943	Indicating w/Travel Stop
943S	Indicating w/Travel Stop – Sealed

### Bonnets, Chainwheel

Code	Bonnet Description
<b>CAST IRON</b>	
905	Indicating with Travel Stop
905S	Indicating with Travel Stop – Sealed

### Bonnets, Actuated

Code	Bonnet Description
<b>DUCTILE IRON</b>	
34	Actuated
34S	Actuated – Sealed

### Block N – Optional Coatings

Code	Description
C1	PVDF Coated Topworks
C2	PVDF Coated Body
C3	PVDF Coated Body & Topworks
C4	White Epoxy Coated Topworks
C5	White Epoxy Coated Body
C6	White Epoxy Coated Body & Topworks

### Adapted for but less ITT Actuation (Block P2)

Code	Description
Y	Valve adapted for but less Engineered Valves Air Motor

### Block P – Dia-Flo Actuator Fail Open Actuators (Spring to Open - Air to Close)

Code	Actuator Size
3125	#25
3150	#50
31101	#101
31130	#130
31250	#250

### Fail Closed Actuators (Air to Open - Spring to Close)

Code	Actuator Size
3225	#25
3250	#50
3275	#75
32101	#101
32130	#130
32250	#250

Code	Spring Description
<b>SIZE #25</b>	
3226	101 Spring
3227	101 & 102A Springs
3228	102A Spring

<b>SIZE #50</b>	
3251	101 Spring
3252	101 & 102A Springs
3253	97 Spring
3254	96 Spring
3255	96 & 97 Springs
3256	102A Spring

<b>SIZE #75</b>	
3273	98 Spring
3274	96 Spring
3276	96 & 97 Springs
3277	97 & 98 Springs
3278	96 & 98 Springs
3279	96, 97 & 98 Springs

<b>SIZE #101</b>	
32102	96 Spring
32103	98 Spring
32104	96 & 97 Springs
32105	96 & 98 Springs
32106	97 & 98 Springs
32107	96, 97, & 98 Springs

### Fail Closed Actuators (con't) (Air to Open - Spring to Close)

Code	Spring Description
<b>SIZE #101 continued</b>	
32108	130 Spring
32109	97 Spring

<b>SIZE #130</b>	
32131	97 Spring
32132	96 Spring
32133	98 Spring
32134	96 & 97 Springs
32135	96 & 98 Springs
32136	97 & 98 Springs
32137	96, 97, & 98 Springs
32138	130 Spring

<b>SIZE #250</b>	
32251	129 & 130 Springs
32252	129 Spring
32253	130 Spring

### Double Acting Actuators (Air to Open - Air to Close)

Code	Actuator Size
3325	#25
3350	#50
3375	#75
33101	#101
33130	#130
33250	#250

### Optional Air Motor Covers (Block P1)

Code	Description
DICVR	Ductile Iron

### Block T – Position Indicator

Code	Description
P1	Position Indicator

### Block V – Mechanical Accessories

Code	Description
AO	Adjustable Opening Stop
ATS	Adjustable Travel Stop
HWO	Handwheel Opening Device
WO	Wrench Opening Device
TOHO	Adjustable Opening Stop and Handwheel Opening Device
TOWO	Adjustable Opening Stop and Wrench Opening Device
HWC	Handwheel Closing Device
TO	Adjustable Opening Stop and Adjustable Travel Stop
THC	Adjustable Opening, Adjustable Travel Stop and Handwheel Closing Device (#25 AM and larger)

### Block Y – Limit Switches

Code	Description
LS1	Micro BZE6 - 2RN
LS2	Micro BAF1 - 2RN
LS3	Micro DTE6 - 2RN
LS4	Micro DTF2 - 2RN
LS5	Micro EXQ
LS6	Micro EXDQ
LS7	Micro LSA1A
LS8	Westlock 3479 Model 3
LS9	GO 74-13528-A2
LS10	Namco EA700-80100
LS12	Namco EA170-34100 / 35100

## Ordering Information

### Optional Limit Switch Position (Block Y1)

Code	Description
LSO	Limit Switch – Open Only
LSC	Limit Switch – Closed Only

### Other Blocks

#### Optional Bonnet Seal Material (Block F)

Code	Seal Material
S1	EPDM
S2	Viton

#### Optional Bonnet Internals (Block H)

Code	Description
M5	Stainless Steel Stem
M8	PVDF Coated Cast Iron Compressor
M9	Stainless Steel Bushing
M11	316 Stainless Steel Stem

#### Optional Bolting (Block G)

Code	Description
B1	Stainless Steel
B316	Stainless Steel (316)
B88	B8 Bolt/ 8 Nut

#### Yoke (Block K)

Code	Description
Y	Yoke Supplied

#### Locking Device (Block L)

Code	Description
LD	Locking Device

#### Extended Stem (Block M)

Code	Description
EXTSTEM	Extended Stem

#### Non ITT Actuation (Block R)

Code	Description
POF	Non-EV Customer Supplied Actuator (mounted)
POA	Adapted For But Less Customer Supplied Actuator
POM	Non-EV Actuator Supplied and Mounted by Engineered Valves

#### Actuator Hardware Options (Block U)

Code	Description
HW1	SS Airmotor Bolts
HW2	SS Accessory Brackets
HW3	316 SS Tubing and Fittings
HW4	Plastic Tubing / Brass Fittings
HW5	PVC Coated Tubing / Brass Fittings
HW6	PVC Coated Tubing / SS Fittings

#### Solenoid Valve (Block W)

Code	Description
SV1	Asco 8320G184
SV2	Asco EF8320G184
SV3	Asco 8345G1
SV4	Asco EF8345G1

#### Solenoid Voltage (Block X)

Code	Description
V1	120V / 60HZ
V2	24VDC
V3	240V / 60HZ

#### Filter Regulator (Block AC)

Code	Description
FR1	Conoflow FR95ASKEX1G
FR2	Fisher 67CFR

#### Speed Control (Block AE)

Code	Description
SC	Schrader 337-1001

## Ordering Information

### Cross Reference Chart – Bodies, Bonnets, and Actuators

Only those figure numbers that have changed are listed below.

Bodies		Dia-Flo Actuators		Dia-Flo Actuators (con't)	
Old	New	Old (spring#)	New	Old (spring#)	New
4250	2464	3112	3112	32130 (98)	32133
4260	2465	3212 (88)	3213	32130 (96&97)	32134
4270	2466	3212 (88&89)	3214	32130 (96&98)	32135
		3212 (88&Raymond)	3215	32130 (97&98)	32136
		3212 (89)	3216	32130 (96, 97&98)	32137
		3312	3312	32130 (130)	32138
		3125	3125	33130	33130
		3225 (101)	3226	31250	31250
		3225 (101&102A)	3227	32250 (129&130)	32251
		3225 (102A)	3228	32250 (129)	32252
		3325	3325	32250 (130)	32253
		3150	3150	33250	33250
		3250 (101)	3251		
		3250 (101&102A)	3252		
		3250 (97)	3253		
		3250 (96)	3254		
		3250 (96&97)	3255		
		3250 (102A)	3256		
		3350	3350		
		3275 (96)	3274		
		3275 (96&97)	3276		
		3275 (97&98)	3277		
		3275 (96&98)	3278		
		3275 (96, 97&98)	3279		
		3375	3375		
		31101	31101		
		32101 (96)	32102		
		32101 (98)	32103		
		32101 (96&97)	32104		
		32101 (96&98)	32105		
		32101 (97&98)	32106		
		32101 (96, 97&98)	32107		
		32101 (130)	32108		
		32101 (97)	32109		
		33101	33101		
		31130	31130		
		32130 (97)	32131		
		32130 (96)	32132		

Bonnets		Switches	
Old	New	Old	New
2	902	R – Open/Closed	LS1-LS10
3	903	S – Closed Only	
4	905	T – Open Only	
6	932		
7	933		
9	912		
10	913		
25	942		
26	943		
30	POA		
854	902-C4		
855	902S-C4		
872	902S-C1		
873	903S-C1		
874	903S-C1		
903	903		
904	903S		
907	933		
910	913		
913	913S		
923	923		
924	923S		
926	943		
927	943S		
955	903-C4		
956	903S-C4		
963	963		
964	963S		
974	903S-C1		

Description	Old Code	NEW CODE (#12)		NEW CODE (#25-#250)	
		Fail Open & Double Acting 3100 & 3300	Fail Closed 3200	Fail Open & Double Acting 3100 & 3300	Fail Closed 3200
Position Indicator	Z	P1	P1	P1	P1
Adjustable Travel Stop	X	ATS	ATS	ATS	Standard
Adjustable Opening Stop	W	TOHC	TOWO	AO	AO
Adjustable Opening & Travel Stop	Q	TOHC	TOWO	TO	AO
Handwheel Closing Device	V	TOHC	Not Available	HWC	Not Available
Handwheel Opening Device	JH	Not Available	HWO	Not Available	HWO
Adjustable Opening & Travel Stop + Handwheel Closing Device	JW	Not Available	WO	Not Available	WO
Adjustable Travel Stop + Handwheel Closing Device	Q + V	TOHC	Not Available	THC	Not Available
Adjustable Opening Stop + Handwheel Closing Device	X + V	TOHC	Not Available	THC	Not Available
Adjustable Opening Stop + Handwheel Closing Device	W + V	TOHC	Not Available	HWC	Not Available
Adjustable Opening Stop + Handwheel Opening Device	W + JH	Not Available	TOHO	Not Available	TOHO
Adjustable Opening Stop + Handwheel Opening Device	W + JW	Not Available	TOWO	Not Available	TOWO