Bray COMMERCIAL

NY/AB Series

Resilient Seated Butterfly Valves

2-Way — 2"- 30" and 3-Way — 2"- 20"

CONTENTS

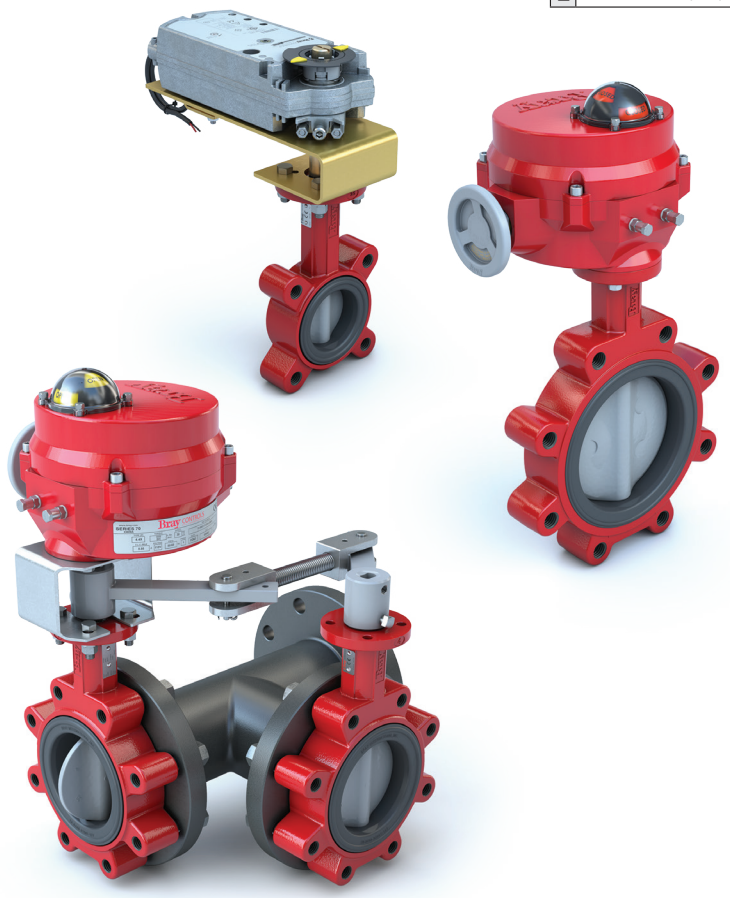
LOOKING FOR MORE

02/03/24

Application

Bray's NY, AB and SS series resilient seated butterfly valves set the design standard for quality, reliability and long life in a wide variety of HVAC applications. Specifically designed for automated applications on chilled water, hot water and condenser water, all NY, AB and SS series automated butterfly valves are 100% factory tested for bubble tight shut off and low seating/unseating torque.

NY, AB and SS Series valves are available in 2-way configurations to 30" and 3-way configurations in sizes from 2" to 20". Actuators include industrial electric, commercial electric, high pressure pneumatic and low pressure pneumatic in both spring return and non spring return variations for on/off and modulating control applications. Differential pressure ratings are available for high close-off (up to 175 PSI) and low close-off (50 PSI) requirements.



Features and Benefits

- **High purity Peroxide Cured EPDM seats**

  Low torque and superior rubber stability over the shelf life and service life of the valve

- **Nylon coated ductile iron disc - NY Series**

  Superior corrosion and abrasion resistance extends the life of the valve
  Reduced torque requirements

- **Internal disc-to-stem connection**

  High strength and easy serviceability

- **Wide variety of direct mount actuators**

  Reduces size, cost and hysteresis

- **Full and 50 PSI close-off pressure ratings available**

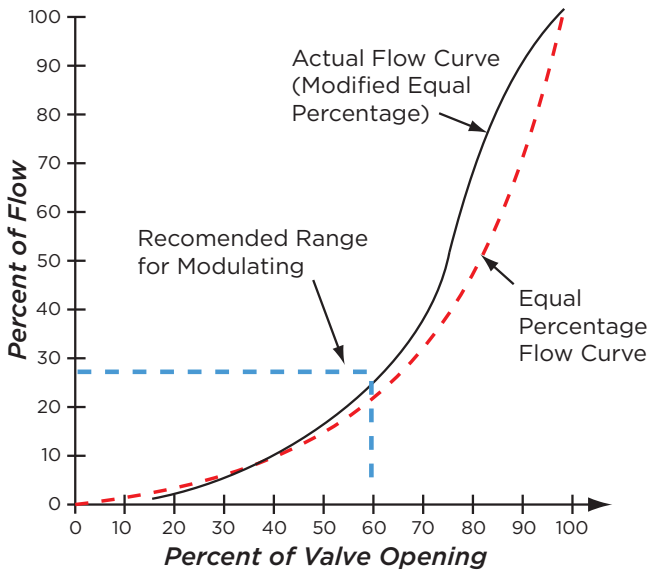
  For maximum actuator pricing efficiency

NY/AB Series Butterfly Valves - Valve Body Specifications

Technical Specifications		
Service	Hot Water, Chilled Water, Condenser Water up to 50% Glycol	
Size Range	**2-Way** **3-Way**	2″ through 30″ (DN 50 to 750) 2″ through 20″ (DN 50 to 500)
Body Style	One Piece Lug, 2-Way and 3-Way, for ANSI 125 and ANSI 150 flanges	
Flow Characteristics	Modified Equal Percentage – See Page NY/AB-3	
Flow Coefficients	See Piping Gemotery Charts on Page NY/AB-9	
Fluid Temperature Limits	-20 to 250˚F (-28 to 121˚C)	
Maximum Fluid Velocity	30 ft/second (9 m/second)	
Leakage	Bubble tight at rated maximum differential pressure	
Body Cold Working Pressure Ratings	250 PSI (17.2 Bar)	
Close-Off - Pressure Ratings	**2″ to 12″**	Valve part numbers ending in “0” — 175 PSI
	14″ to 30″	Valve part numbers ending in “0” — 150 PSI
	2″ to 20″	Valve part numbers ending in “1” — 50 PSI
	24″ to 30″	Valve part numbers ending in “1” — 75 PSI
	See pages NY/AB-12 to NY/AB-22	
Materials (other materials available upon request)	**Body**	Cast Iron - 2″ Extended Neck; Polyester Powder Coated
	Disc	NY Series - Ductile Iron, Nylon 11 Coated AB Series - Aluminum Bronze SS Series - 316 Stainless Steel
	Seat	EPDM (Ethylene Propylene Diene Monomer) - Peroxide Cured - Replaceable
	Stem	416 Stainless Steel
	Tee	Ductile Iron (3-way valves only)
Weights	See Dimensions	
Design Standard	MSS SP-67, API 609, Category A	
Testing Standard	MSS SP-61, API 598, EN 12266-1	
Face to Face	MSS SP-67, API 609, Category A, EN 558	
Approvals & Certifications	ABS, ATEX, Bureau Veritas, CRN, DNV, FDA 21 CFR 177.1550, NSF 61/372, PED, PE(S)R	

Disclaimer - The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Bray office. Bray, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

NY/AB Series Butterfly Valves - Equal Percentage Flow Curve Chart



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Disc to Stem Connection

The NY/AB Series offers Double "D" precision machined flats on the stem and in the disc. The internal, non-wetted connections eliminate exposed external disc to stem connections.
The disc and the stem connection minimizes hysteresis and produces maximum strength engagements. All stem designs incorporate a blowout proof feature.

NY - (Nylon 11 Coating)

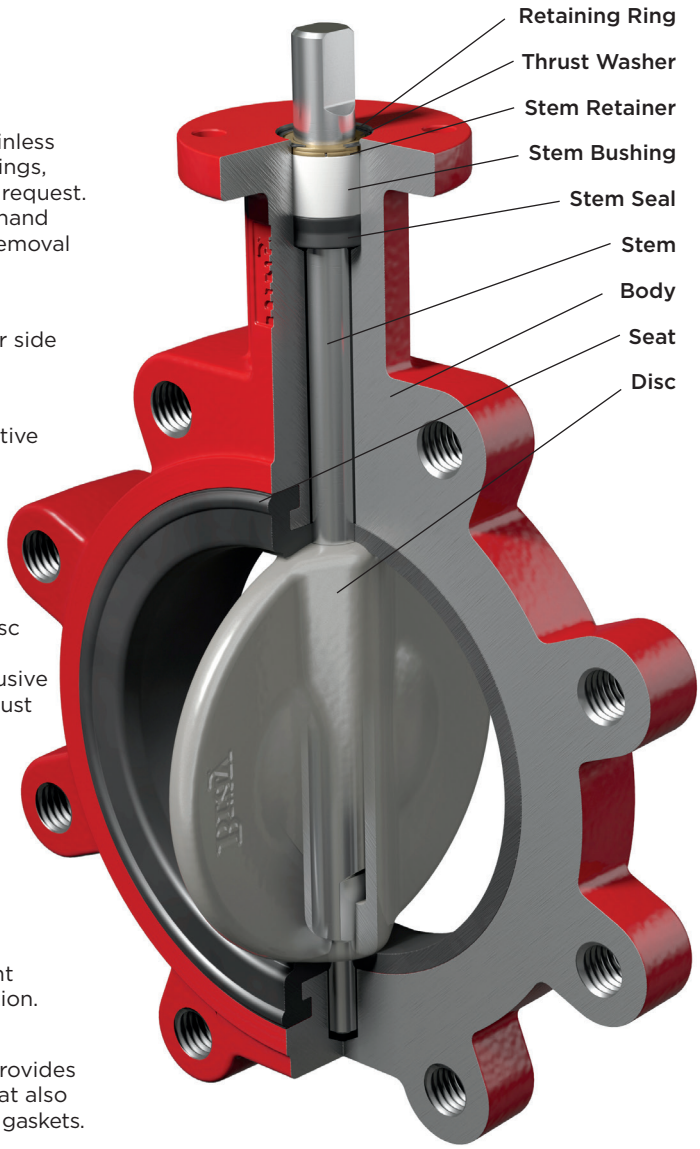
Nylon 11 has superior corrosion resistance and has been used successfully as a disc coating in many applications.

Weatherability

Bray's Nylon 11 coating has been salt spray tested in excess of 2000 hours and used in seawater immersion service for over 30 years without any deterioration of the coating resulting in no corrosion to the coated metal components.

Seat Design

The seat is designed to seal with slip-on or weld-neck flanges and the molded O-Ring eliminates the need for flange gaskets. The tongue and groove locks the seat in place and makes the valve dead end capable.



STEM RETAINING ASSEMBLY

The stem is retained in the body by means of a unique Stainless Steel Spirolox® retaining ring, a thrust washer and two C-Rings, manufactured from brass as standard, stainless steel upon request. The retaining ring may be easily removed with a standard hand tool. The stem retaining assembly prevents unintentional removal of the stem during field service..

STEM BUSHING

Non-corrosive, heavy duty acetal bushing absorbs actuator side thrust.

STEM SEAL

Double "U" cup seal design is self-adjusting and gives positive sealing in both directions.

NECK

Extended neck length allows for 2" of piping insulation and is easily accessible for mounting actuators.

STEM

Precision double "D" disc to stem connection drives the disc without the need for screws or pins. The close tolerance, double "D" connection that drives the valve disc is an exclusive feature of the Bray valve. Disassembly of the Bray stem is just a matter of pulling the stem out of the disc.

PRIMARY & SECONDARY SEALS

These seals prevent line media from coming in contact with the stem or body. Primary Seal is achieved by an interference fit of the molded seat flat with the disc hub. Secondary Seal is created because the stem diameter is greater than the diameter of the seat stem hole.

BODY

One-piece wafer or lug style. Polyester coating for excellent corrosion resistance. Nylon 11 coating is available as an option.

SEAT

Bray's tongue and groove seat design lowers torque and provides complete isolation of flowing media from the body. The seat also features a molded O-Ring which eliminates the use of flange gaskets.

DISC

Casting is spherically machined and hand polished to provide a bubble-tight shutoff, minimum torque, and longer seat life.

NY/AB Series Butterfly Valves - Cv's at Various Angles of Openings

Low and Standard Pressure Cv Disc Values									
	ANGLE OF DISC OPENING								
Valve Size	10°	20°	30°	40°	50°	60°*	70°	80°	90°
2"	1	7	16	27	43	61	84	114	144
2.5"	1.5	11	24	43	67	107	163	223	282
3"	2	15	35	61	96	154	267	364	461
4"	3	27	62	109	171	274	496	701	841
5"	5	43	98	170	268	428	775	1146	1376
6"	6	56	129	225	354	567	1025	1543	1850
8"	12	102	241	421	680	1081	1862	2842	3316
10"	19	162	382	667	1076	1710	2948	4525	5430
12"	27	235	555	1005	1594	2563	4393	6731	8077
14"	34	299	756	1320	2149	3384	5939	9974	10538
16"	45	397	1001	1749	2847	4483	7867	11761	13966
18"	58	507	1281	2237	3643	5736	10062	14496	17214
20"	72	632	1595	2786	4536	7144	12535	18812	22339
24"	259	1028	2387	4244	6962	11040	18235	27186	33154
30"	420	1652	3986	7080	11328	18090	28844	43003	52443

* When selecting a butterfly valve for a modulating application, use a valve where the calculated Cv falls between 0 - 60 degrees.

NY/AB Series Butterfly Valves - Applications

Bray Butterfly Valves for HVAC Applications
Bray is the largest butterfly valve manufacturer in the western hemisphere for a reason. Bray's in house design team and Bray owned ISO 9001 manufacturing facilities have over 30 years of experience with this product. Our track record of reliability in thousands of installations over time bear this out.

Bray Commercial Division offers two distinct lines of butterfly valves for HVAC applications. These low torque, high cycle life designs have emerged as the design standard in the commercial building market worldwide.

Comparative Valve Specifications		
	NY/AB Series	MK Series
Design	Resilient Seated, Nylon Coated, Aluminium Bronze or Stainless Steel Disc	Double Offset, Pressure assisted, but not pressure dependent seat design. Stainless Steel Disc
Maximum Close-Off Pressure	175 PSI	ANSI 150- 285 PSI ANSI 300- 740 PSI
Temperature Rating	-20° F to 250°F	-40° F to 500°F

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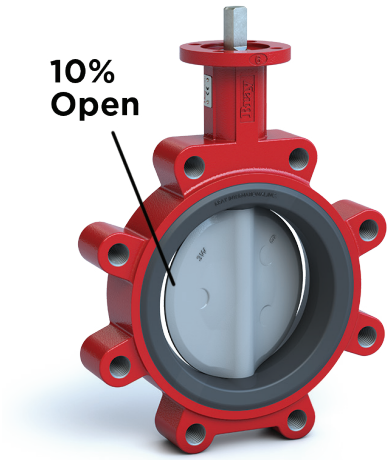
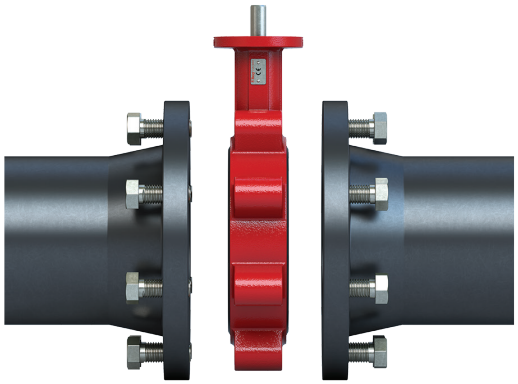
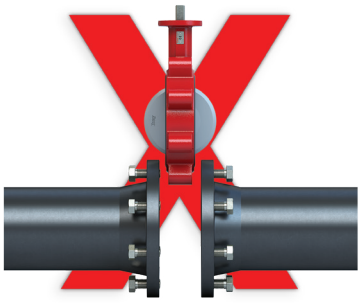
Valve Size	Bolt Size - inches	Maximum Bolt Torque Requirement (ft-lbs)
2" & 2.5"	5/8 - 11 Threads UNC-2B	30
3"	5/8 - 11 Threads UNC-2B	35
4"	5/8 - 11 Threads UNC-2B	35 - 40
5"	3/4 - 10 Threads UNC-2B	35 - 45
6"	3/4 - 10 Threads UNC-2B	35 - 50
8"	3/4 - 10 Threads UNC-2B	45 - 55
10"	7/8 - 9 Threads UNC-2B	55 - 75
12"	7/8 - 9 Threads UNC-2B	65 - 110
14" & 16"	1 - 8 Threads UN-2B	75 - 120
18" & 20"	1-1/8 - 7 Threads UN-2B	85 - 130
24"	1-1/4 - 7 Threads UN-2B	150 - 155
30"	1-1/4 - 7 Threads UN-2B	150 - 155



Lower the valve into the open pipe work with the disc in the 10˚ open position. Valves with non-spring actuators are shipped in this position.

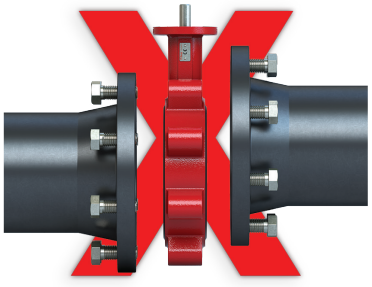


Once the valve is placed in the pipe work, turn the disc to the full-open position. Gradually remove the flange spreaders. Center the valve body to the flanges, and tighten the bolts hand-tight. Slowly close the valve clockwise to check for adequate disc clearance. Return disc to full-open position and cross tighten all bolts to proper torque specification (see tightening pattern above). DO NOT install with disc in fully closed position. This will cause seat distortion. When flange bolts are tightened, rubber will close around disc edge creating excessive torque in initial operation.



DO NOT lower the valve into the pipe with the pipe work spread in sufficiently or with the disc in the fully open position. This can lead to disc edge damage and can impact the flange.

DO NOT USE FLANGE GASKETS The Butterfly Valve seat has a molded-in O-Ring that creates a positive seal against standard ANSI flange faces*.



INCORRECT pipe alignment will cause interference between disc edge and flange face creating leakage, excessive torque, and damage to disc and seat.

* When installing valve in a grooved-type piping system, consult piping manufacturer's specification to choose proper sealing surface. Installing valve without proper surface may cause damage to the valve seat or leakage at the valve.

NY/AB Series - Valve Sizing Tips

Step One

Determine the designed Cv by using the following equation.*

$$Cv = \frac{Q\sqrt{G}}{\sqrt{\Delta P}}$$

Where
Q = Flow in gallons per minute (GPM) required to pass through the valve
G = Specific gravity of fluid**
ΔP = Designed pressure drop across the valve in PSI
Cv = Flow coefficient

Notes

** Specific gravity is negligible (equal to 1) for water below 200˚F. Use actual specific gravity of pure fluids other than water. In most cases, the valve selected for a H_2O mixture will not be affected by the specific gravity.

Example

The Specific Gravity of 50% Water (Compound 1) and 50% Ethylene Glycol Solution (Compound 2):

$$\frac{1}{\text{Specific Gravity}} = \frac{0.5}{1.0} + \frac{0.5}{1.113} = 1.05$$

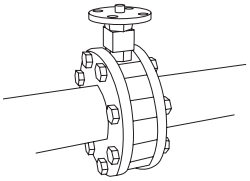
$$\frac{1}{G_{soln}} = \frac{\text{wt\% of Compound 1}}{\text{Specific Gravity (G)}} + \frac{\text{wt\% of Compound 2}}{\text{Specific Gravity (G)}}$$

Step Two

Determine whether the valve should be line size or sized to match the designed pressure drop (typical for modulating applications where precise control is required.)

Option 1

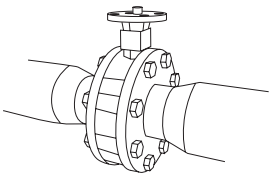
LINE SIZE
On/Off Valves
Select the valve size to equal the pipe size.



Option 2

SIZE FOR MODULATING CONTROL
Modulating Valves
Size the valve for design flow at 60 degrees open.

60˚ rotation for modulating control



Step Three

Determine the actual pressure drop using the below equation.

$$\Delta P = \left(\frac{Q\sqrt{G}}{Cv} \right)^2$$

If the pressure drop is acceptable†, go to Step 4.
If not, repeat Steps 2 and 3, selecting an alternate valve.

Step Four

Check to be sure that the Close-Off requirements are met. Refer to Page NY/AB-13 - NY/AB-21.

† Recommended to be no higher than 25 PSI or match the designed pressure drop, 3, 4, 5, and 6 PSI are commonly accepted for modulating applications.
* For modulating butterfly valves, size for design flow at 60˚ rotation

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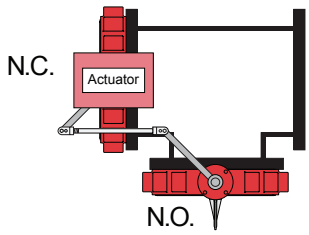
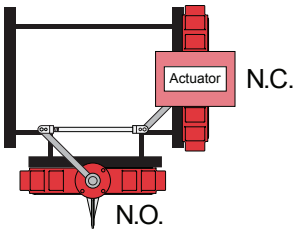
Spring Return and Non-Spring Return

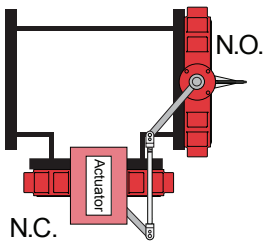
Configuration 1



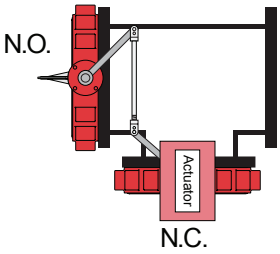
Configuration 2



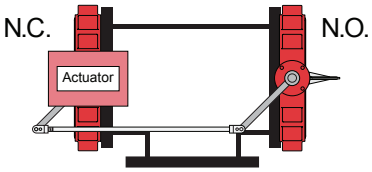
Configuration 3



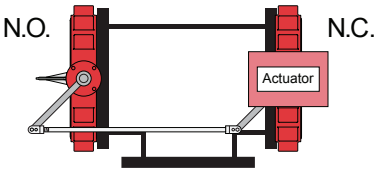
Configuration 4



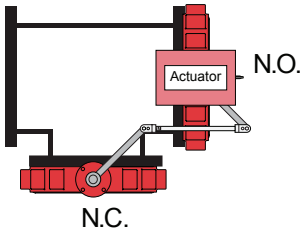
Configuration 5



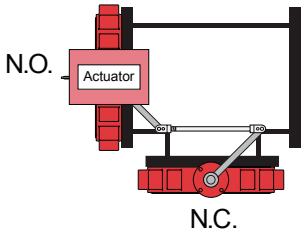
Configuration 6



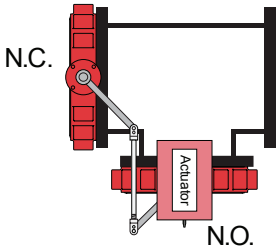
Configuration 7



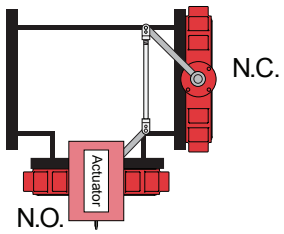
Configuration 8



Configuration 9



Configuration 10
(PN placeholder is 0)



Note: All 3-Way butterfly valve assembly orders should have configuration specified. Pricing remains the same, however Bray must know the specifications in order to manufacture the appropriate linkage kit.

Note: 3-Way assemblies with low-pressure pneumatic actuators (D-Series) are limited to arrangements: 1, 2, 7, and 8.

Note: Unless otherwise requested valve will be shipped as illustrated by Configuration 3.

NY/AB Series Butterfly Valves - Part Number Matrix

NY **AB** **SS**	Series 31, 35, & 36 Cast Iron Body, Nylon-Coated Ductile Iron Disc, 416 SS Stem, EPDM Seat. Series 31 Cast Iron Body, Aluminum-Bronze Disc, 416 SS Stem, EPDM Seat. Series 31, 35, & 36 Cast Iron Body, 316 Stainless Steel Disc, 416 SS Stem, EPDM Seat.										Valve Series
	L Lug Body **F** Flange Body										Body Type
		2 2-Way Valve Assembly **3** 3-Way Valve Assembly									Valve Type
			-								
				C 2-way Assembly, Normally Closed **N** 2-way Assembly, Normally Open **X** For 3-Way only - (X= Configuration # - See page NY/AB-6)							Configuration
					XX Size (in.) 08=8", 12=12", etc.							Valve Size
						0 Series 31 Cast Iron Body, 175 PSI 2"-12", 150 PSI 14"-20" **1** Series 31 Cast Iron Body, 50 PSI 4"-20" (reduced dia. disc)					Valve Shut-Off Rating
							/				
								70-xxxx Series 70 Electric Actuators **AU** Auma Actuators **92-xxx** High Pressure Pneumatic, Double Acting **93-xxx** High Pressure Pneumatic, Spring Return **98-xxx** High Pressure Pneumatic, Spring Return **D or DC** Commercial Electric Actuators **D-3xxx** D3000 Series Low Pressure Pneumatic Actuators			Actuator
									SV Servo Card for 0-10 VDC or 4-20 mA modulation **H** Anti-Condensation Heater **BBU** Battery Back-Up Unit			Electric Actuator Accessories
										-S 120 VAC Solenoid Valve **-S4** 24 VAC Solenoid Valve **-SW** Valve Status Monitor for Pneumatic Actuator **-C** 1-Set Speed Controls for Solenoids **-P** 3-15 PSI Pneumatic Positioner **-EP** 4-20 mA Electro-Pneumatic Positioner **-05** Declutchable Handwheel Manual Override		Pneumatic Actuator Accessories
NY	**L**	**2**	**-**	**C**	**12**	**1**	**/**	**70-E301**	**SVH**	**12" lugged 2-way butterfly valve, cast iron body, undercut nylon coated ductile iron disc, 416 SS Stem, EPDM Seat, Series 70-E301, 120 VAC modulating electric actuator with heater**			Examples

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2-Way & 3-Way PIPING GEOMETRY CHART - Adjusted Cv at 60° Rotation

Valve Size	Model Number	Nominal Cv	Pipe Size																			
			2"	2.5"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"
2"	_ _ L*-C020	61	61	59	57	55	54															
2.5"	_ _ L*-C025	107		107	104	98	94	92														
3"	_ _ L*-C030	154			154	140	140	136	131													
4"	_ _ L*-C040	274				265	265	255	242	235												
5"	_ _ L*-C050	428				428	428	418	393	378	370											
6"	_ _ L*-C060	567						567	545	524	510	501										
8"	_ _ L*-C080	1081							1081	1048	1008	980										
10"	_ _ L*-C100	1710								1710	1671	1617	1572									
12"	_ _ L*-C120	2563									2516	2563	2441	2374								
14"	_ _ L*-C140	3384											3338	3258	3182							
16"	_ _ L*-C160	4483											4483	4432	4340	4246						
18"	_ _ L*-C180	5736												5736	5682	5577	5466					
20"	_ _ L*-C200	7144													7144	7087	6971	6843				
24"	_ _ F2-C240	11040															11040	11021	10953			
30"	_ _ F2-C300	18090																		18090	18064	17937

C = Normally Closed - Factory Default
N = Normally Open

* = **2** (2-Way) or
* = **3 + Configuration Number** (3-Way) - See page NY/AB-6

_ _ = (NY) Nylon Coated Disc, (AB) Aluminium Bronze Disc or (S) Stainless Steel Disc

2-Way & 3-Way PIPING GEOMETRY CHART - Adjusted Cv at 90° Rotation

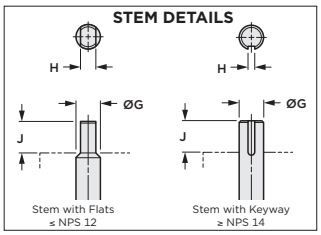
Valve Size	Model Number	Nominal Cv	Pipe Size																			
			2"	2.5"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"
2"	_ _ L*-C020	61	144	127	111	96	90															
2.5"	_ _ L*-C025	107		282	245	187	165	154														
3"	_ _ L*-C030	154			461	340	274	246	223													
4"	_ _ L*-C040	274				841	664	538	442	406												
5"	_ _ L*-C050	428					1376	1132	808	700	649											
6"	_ _ L*-C060	567						1850	1360	1101	988	929										
8"	_ _ L*-C080	1081							3316	2633	2142	1898										
10"	_ _ L*-C100	1710								5430	4487	3667	3219									
12"	_ _ L*-C120	2563									8077	6892	5590	4974								
14"	_ _ L*-C140	3384										10538	9360	7942	6998							
16"	_ _ L*-C160	4483											13966	12640	10872	9607						
18"	_ _ L*-C180	5736												17214	15902	13962	12454					
20"	_ _ L*-C200	7144													22239	20756	18296	16308				
24"	_ _ F2-C240	11040															33154	32638	31007			
30"	_ _ F2-C300	18090																		52443	51817	49787

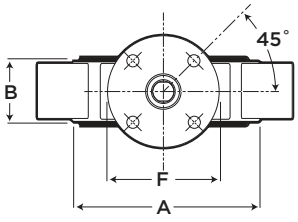
C = Normally Closed - Factory Default
N = Normally Open

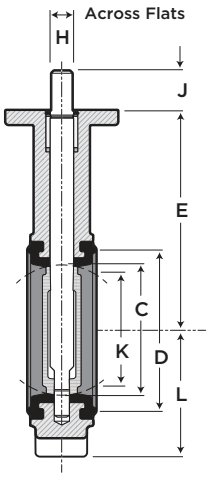
* = **2** (2-Way) or
* = **3 + Configuration Number** (3-Way) - See page NY/AB-6

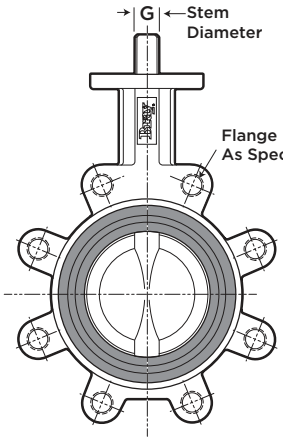
_ _ = (NY) Nylon Coated Disc, (AB) Aluminium Bronze Disc or (S) Stainless Steel Disc

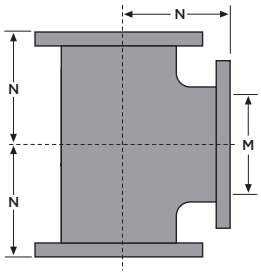
NY/AB Series Butterfly Valves - Valve Dimensions











VALVE BODY DIMENSIONS — in. (mm)

Size		A	B	C	D	E	F	G	H	J	K*	L	
in.	mm											Wafer	Lug
2	50	3.7 (94)	1.6 (41)	2.0 (51)	2.9 (74)	5.5 (140)	3.5 (90)	0.6 (14)	0.39 (10)	1.25 (32)	1.3 (32)	2.2 (56)	2.3 (58)
2.5	65	4.2 (107)	1.8 (46)	2.5 (64)	3.4 (86)	6.0 (152)	3.5 (90)	0.6 (14)	0.39 (10)	1.25 (32)	1.9 (48)	2.5 (63)	2.6 (65)
3	80	4.9 (124)	1.8 (46)	3.0 (76)	4.2 (107)	6.3 (159)	3.5 (90)	0.6 (14)	0.39 (10)	1.25 (32)	2.6 (66)	2.8 (71)	2.8 (71)
4	100	6.1 (154)	2.0 (51)	4.0 (102)	5.2 (132)	7.0 (178)	3.5 (90)	0.6 (16)	0.43 (11)	1.25 (32)	3.6 (91)	3.4 (87)	4.1 (104)
5	125	7.1 (179)	2.1 (52)	5.0 (128)	6.2 (157)	7.5 (191)	3.5 (90)	0.8 (19)	0.51 (13)	1.25 (32)	4.6 (117)	4.0 (102)	4.6 (117)
6	150	8.1 (206)	2.1 (52)	5.8 (146)	7.0 (178)	8.0 (203)	3.5 (90)	0.8 (19)	0.51 (13)	1.25 (32)	5.5 (140)	4.5 (115)	5.1 (129)
8	200	10.5 (267)	2.5 (64)	7.8 (197)	9.5 (241)	9.5 (241)	5.9 (150)	0.9 (22)	0.63 (16)	1.25 (32)	7.5 (190)	5.8 (146)	6.1 (154)
10	250	12.8 (325)	2.5 (64)	9.8 (249)	11.5 (292)	10.7 (272)	5.9 (150)	1.2 (30)	0.87 (22)	2.0 (51)	9.5 (242)	7.1 (181)	7.7 (195)
12	300	14.9 (378)	3.0 (76)	11.8 (299)	13.5 (342)	12.3 (311)	5.9 (150)	1.2 (30)	0.87 (22)	2.0 (51)	11.5 (291)	8.1 (206)	9.0 (229)
14	350	16.9 (429)	3.0 (76)	13.3 (337)	15.3 (388)	13.6 (346)	5.9 (150)	1.4 (35)	.39x.39 (10x10)	2.0 (51)	13.0 (331)	9.4 (238)	9.9 (252)
16	400	19.1 (485)	4.0 (102)	15.3 (387)	17.1 (434)	14.8 (375)	8.3 (210)	1.4 (35)	.39x.39 (10x10)	2.0 (51)	14.9 (377)	10.8 (273)	11.3 (287)
18	450	21.1 (536)	4.3 (109)	17.3 (438)	19.5 (495)	16.0 (406)	8.3 (210)	2.0 (50)	.47x.39 (12x10)	2.5 (64)	16.9 (429)	12.0 (305)	12.2 (309)
20	500	23.3 (592)	5.0 (127)	19.3 (489)	21.6 (548)	17.3 (438)	8.3 (210)	2.0 (50)	.47x.39 (12x10)	2.5 (64)	18.8 (476)	14.0 (356)	14.0 (356)
24	600	28.2 (716)	6.1 (154)	23.3 (591)	25.6 (650)	19.5 (495)	8.3 (210)	2.5 (64)	.62x.62 (16x16)	4.0 (102)	22.7 (575)	17.6 (446)	17.6 (446)
30	750	23.3 (592)	5.0 (127)	19.3 (489)	21.6 (548)	17.3 (438)	8.3 (210)	2.0 (50)	.47x.39 (12x10)	2.5 (64)	18.8 (476)	14.0 (356)	14.0 (356)

***Note:** K dimension is the disc chordal diameter at the valve face.

VALVE BODY DIMENSIONS — in. (mm) - Continued

Size		Top Plate Drilling			Lug Bolt Data			Tee		Adp. Code	Weight lbs. (kg)		
in.	mm	Bolt Circle	Hole Qty	Hole Dia.	BC	Holes	Threads	M	N		Wafer	Lug	Tee**
2	50	2.8 (70)	4	0.4 (10)	4.8 (122)	4	5/8-11	2.0 (51)	4.5 (114)	A	6 (2.5)	7 (3)	19 (8.6)
2.5	65	2.8 (70)	4	0.4 (10)	5.5 (140)	4	5/8-11	2.5 (64)	5.0 (127)	A	7 (3)	8 (4)	27 (12.3)
3	80	2.8 (70)	4	0.4 (10)	6.0 (152)	4	5/8-11	3.0 (76)	5.5 (140)	A	8 (3.5)	9 (4)	39 (17.7)
4	100	2.8 (70)	4	0.4 (10)	7.5 (191)	8	5/8-11	4.0 (102)	6.5 (165)	B	12 (5.4)	15 (7)	62 (28.1)
5	125	2.8 (70)	4	0.4 (10)	8.5 (216)	8	3/4-10	5.0 (127)	7.5 (191)	C	14 (6.4)	20 (9)	79 (35.78)
6	150	2.8 (70)	4	0.4 (10)	9.5 (241)	8	3/4-10	6.0 (152)	8.0 (203)	C	17 (8.7)	23 (10)	96 (43.5)
8	200	4.9 (125)	4	0.6 (15)	11.8 (300)	8	3/4-10	8.0 (203)	9.0 (229)	D	34 (15)	42 (19)	155 (70.3)
10	250	4.9 (125)	4	0.6 (15)	14.3 (363)	12	7/8-9	10.0 (254)	11.0 (279)	E	49 (22)	66 (30)	270 (122.5)
12	300	4.9 (125)	4	0.6 (15)	17.0 (432)	12	7/8-9	12.0 (305)	12.0 (305)	E	67 (30)	88 (40)	380 (172.4)
14	350	4.9 (125)	4	0.6 (15)	18.8 (478)	12	1-8	14.0 (356)	14.0 (356)	F	95 (43)	114 (52)	435 (197.3)
16	400	4.9 (125)	4	0.6 (15)	21.3 (541)	16	1-8	16.0 (406)	15.0 (381)	F	135 (61)	166 (75)	550 (249.5)
18	450	6.5 (165)	4	0.8 (21)	22.8 (579)	16	1-1/8-7	18.0 (457)	16.5 (419)	G	200 (91)	226 (103)	665 (301.6)
20	500	6.5 (165)	4	0.8 (21)	25.0 (635)	20	1-1/8-7	20.0 (508)	18.0 (457)	G	260 (118)	305 (138)	855 (387.8)
24	600	6.5 (165)	4	0.8 (21)	29.5 (749)	20	1-1/4-8	-	-	H	420 (191)	500 (226)	-
30	750	6.5 (165)	4	0.8 (21)	25.0 (635)	20	1-1/8-8	-	-	G	660 (299)	855 (387)	-

**Tee weight is the weight of the Tee alone. For 3-Way assemblies add the weight of two lug valves.

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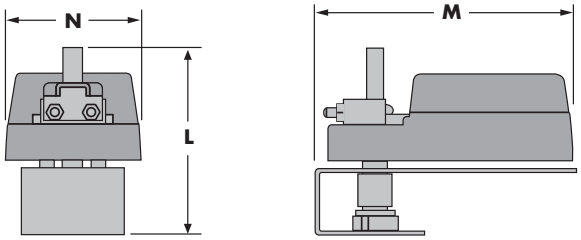
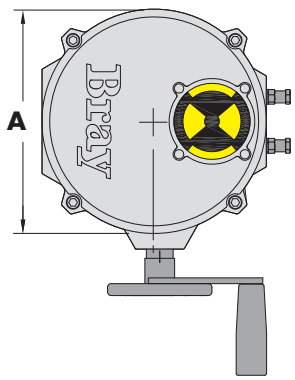
COMMERCIAL ACTUATOR DIMENSIONS — in. (mm)

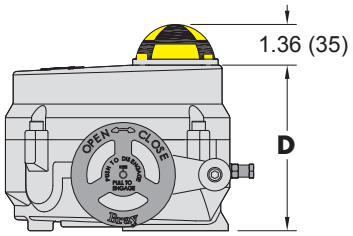
Actuator Model Number	L	M	N	Weight lbs. (kg)
DCS-140 Series	7.4 (188)	11.0 (279)	4.0 (102)	4.9 (2.2)
DC-310 Series	7.4 (188)	11.0 (279)	4.0 (102)	4.4 (2.0)
D-140/210 Series	6.7 (170)	7.5 (191)	4.0 (102)	2.9 (1.3)
DS-180 Series	7.4 (188)	11.0 (279)	4.0 (102)	6.4 (2.9)
Tandem Actuators	11.8 (300)	18.0 (457)	4.0 (102)	12.8 (5.8)

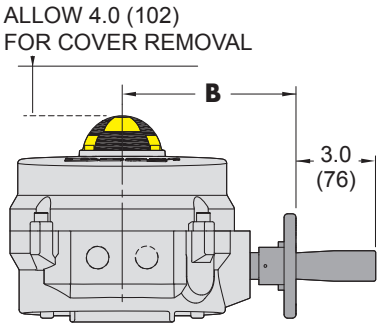


INDUSTRIAL ACTUATOR DIMENSIONS — in. (mm)

Actuator Model Number	A	B	D*		Weight lbs. (kg)
			2-Way	3-Way	
70-0081	7.5 (191)	5.8 (147)	5.6 (141)	8.6 (218)	13 (6)
70-0121/0201/E301	10.1 (256)	7.8 (198)	6.6 (168)	10.7 (273)	28 (13)
70-0501/0651	12.1 (308)	9.5 (241)	7.2 (183)	13.2 (335)	48 (22)
70-1300/1800	12.1 (308)	9.5 (241)	12.5 (316)	20.5 (521)	118 (54)
AU-4068	32.1 (815)	28.9 (734)	12.3 (312)	22.3 (566)	195 (88)
AU-7080	32.1 (815)	31.9 (810)	12.3 (312)	-	285 (129)



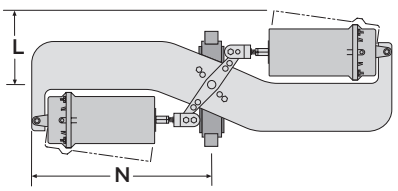


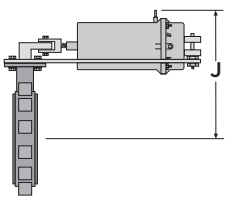


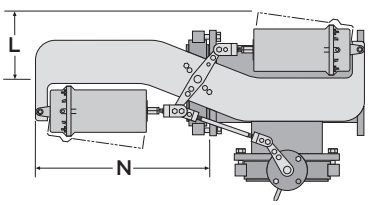
LP PNEUMATIC ACTUATOR DIMENSIONS — in. (mm)

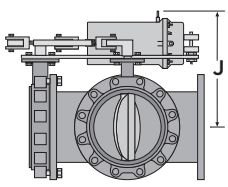
Low Pressure Pneumatic Actuator Model Number	J	L	N		Weight lbs. (kg)
			2-Way	3-Way	
D-3153	13.8 (351)	5.7 (145)	16.0 (406)	10.9 (277)	8.0 (3.6)
D-3244	14.4 (366)	7.3 (185)	20.0 (508)	12.0 (305)	13.6 (6.2)
D-3246	16.4 (417)	8.9 (226)	25.8 (655)	13.7 (348)	17.6 (8.0)
D-3246-D	17.6 (447)	8.9 (226)	22.8 (579)	24.00 (610)	35.1 (15.9)

Largest valve/actuator combination shown
L = Maximum swing of the actuator
N = Maximum swing of the arm



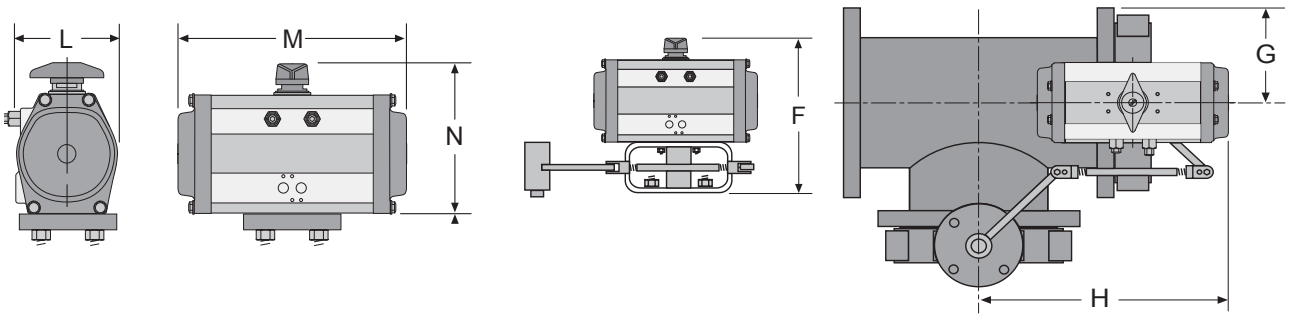




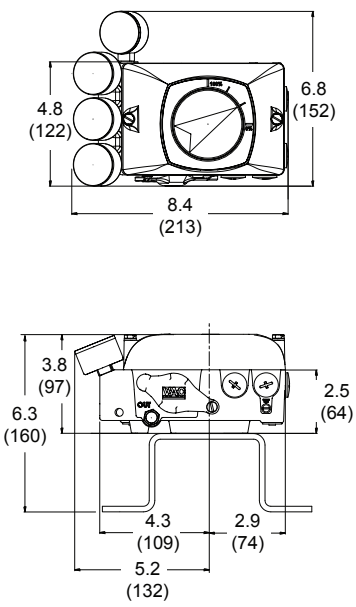


PNEUMATIC ACTUATOR DIMENSIONS — in. (mm)								
Actuator Model Number	L	M	N	F	G	H	Weight lbs. (kg)	
							Double Acting	Spring Return
92/93-063	3.1 (79)	5.6 (142)	4.5 (114)	7.5 (191)	3.0 (76)	9.1 (231)	3.4 (1.5)	4.1 (1.9)
92/93-083	4.1 (104)	7.4 (188)	5.4 (137)	8.4 (213)	4.5 (114)	13.3 (338)	6.3 (3)	8.1 (4)
92/93-093	4.4 (112)	9.1 (231)	5.8 (147)	8.8 (224)	5.5 (140)	14.9 (378)	8.5 (4)	10.8 (5)
92/93-119	5.2 (132)	12.4 (325)	7.3 (185)	11.4 (290)	8.0 (203)	19.9 (505)	16.9 (8)	22.3 (10)
92/93-128	5.6 (142)	12.8 (734)	8.1 (2.6)	12.2 (310)	8.0 (203)	19.9 (505)	21.0 (10)	27.6 (13)
92/93-160	7.2 (183)	15.5 (394)	9.4 (239)	13.5 (343)	10.5 (267)	26.6 (676)	38.8 (18)	53.2 (24)
92/93-210	9.0 (229)	19.6 (498)	11.6 (295)	17.6 (447)	13.8 (351)	33.1 (841)	77.8 (35)	109.6 (50)
92/93-255	10.8 (274)	28.8 (732)	13.5 (343)	19.5 (495)	13.8 (351)	33.1 (841)	167.0 (76)	210.8 (96)
98-45E2-...	14.8 (376)	52.8 (1341)	9.7 (246)	-	-	-	183 (83)	355 (161)
98-14E3-...	21.3 (541)	72.6 (1844)	12.1 (307)	-	-	-	485 (220)	937 (425)
98-73E2-...	16.8 (427)	60.1 (1527)	11.8 (300)	-	-	-	254 (115)	547 (248)

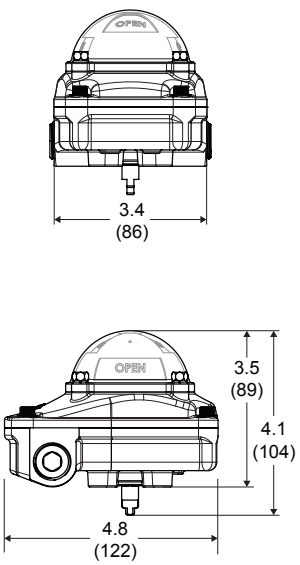
Allow 3.0" for Series 92/93 actuator removal and up to 12" for Series 98



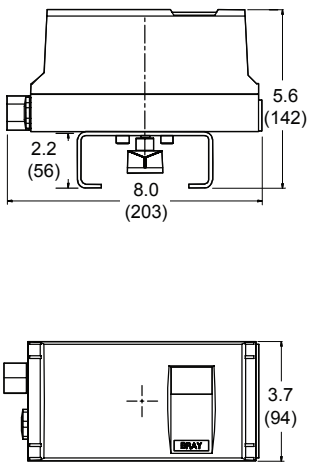
VP200 Pneumatic Positioner



Series 5A Switch Box



Series 6A Electro Pneumatic Positioner



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2 & 3-Way with NSR/SR DC-Series Commercial Electric Actuators

2-Way

2-Way, On/Off or Floating

Model Number	Size		Close-Off PSI	Cv		Non-Spring Return		Spring Return			
						DC24-310-T	DC24-310-T-D	DCS24-140	DCS24-140-D	DCS120-140	DCS120-140-D
	In.	mm		90˚	60˚	Floating		On/Off			
						24 VAC		24 VAC/DC		120 VAC	
NYL2-C020	2	50	175	144	61	X	-	X	-	X	-
NYL2-C025	2.5	65	175	282	107	X	-	X	-	X	-
NYL2-C030	3	80	175	461	154	X	-	-	X	-	X
NYL2-C041	4	100	50	841	274	X	-	-	X	-	X
NYL2-C040	4	100	175	841	274	-	X	-	-	-	-
NYL2-C051	5	125	50	1376	428	X	-	-	X	-	X
NYL2-C061	6	150	50	1850	567	-	X	-	-	-	-

2-Way, Modulating

Model Number	Size		Close-Off PSI	Cv		Non-Spring Return		Spring Return	
						DCM24-310	DCM24-310-D	DCMS24-140	DCMS24-140-D
	In.	mm		90˚	60˚	24 VAC		24 VAC/DC	
						Modulating			
NYL2-C020	2	50	175	144	61	X	-	X	-
NYL2-C025	2.5	65	175	282	107	X	-	X	-
NYL2-C030	3	80	175	461	154	X	-	-	X
NYL2-C041	4	100	50	841	274	X	-	-	X
NYL2-C040	4	100	175	841	274	-	X	-	-
NYL2-C051	5	125	50	1376	428	X	-	-	X
NYL2-C061	6	150	50	1850	567	-	X	-	-

3-Way

3-Way, On/Off or Floating

Model Number	Size		Close-Off PSI	Cv		Non-Spring Return		Spring Return			
						DC24-310-T	DC24-310-T-D	DCS24-140	DCS24-140-D	DCS120-140	DCS120-140-D
	In.	mm		90˚	60˚	Floating		On/Off			
						24 VAC		24 VAC/DC		120 VAC	
NYL3-x020	2	50	175	144	61	X	-	X	-	X	-
NYL3-x025	2.5	65	175	282	107	X	-	-	X	-	X
NYL3-x030	3	80	175	461	154	X	-	-	X	-	X
NYL3-x041	4	100	50	841	274	X	-	-	X	-	X
NYL3-x040	4	100	175	841	274	-	X	-	-	-	-
NYL3-x051	5	125	50	1376	428	-	X	-	-	-	-
NYL3-x061	6	150	50	1850	567	-	X	-	-	-	-

3-Way, Modulating

Model Number	Size		Close-Off PSI	Cv		Non-Spring Return		Spring Return	
						DCM24-310	DCM24-310-D	DCMS24-140	DCMS24-140-D
	In.	mm		90˚	60˚	Modulating			
						24 VAC		24 VAC/DC	
NYL3-x020	2	50	175	144	61	X	-	X	-
NYL3-x025	2.5	65	175	282	107	X	-	-	X
NYL3-x030	3	80	175	461	154	X	-	-	X
NYL3-x041	4	100	50	841	274	X	-	-	X
NYL3-x040	4	100	175	841	274	-	X	-	-
NYL3-x051	5	125	50	1376	428	-	X	-	-
NYL3-x061	6	150	50	1850	567	-	X	-	-

Options/Adders
For optional auxiliary switches, add -A to the end of the actuator part number.
X = 3-Way Assemblies (Refer to Configuration Chart, Page 7)
For Spring Return Units:
N = Normally Open
C = Normally Closed - Factory default
-D = Dual mounted actuators
Replace NYL with ABL in part number when choosing Aluminium Bronze Disc

2 & 3-Way with NSR/SR D-Series Commercial Electric Actuators

2-Way

2-Way, On/Off or Floating

Actuator Model Details						Non-Spring Return			Spring Return	
						D24-140	D24-210	D24-210-D	DS24-180	DS24-180-D
Model Number	Size		Close-Off PSI	Cv		On/Off & Floating			On/Off	
	In.	mm		90˚	60˚	24 VAC/DC			24 VAC/DC	
NYL2-C020	2	50	175	144	61	X	-	-	X	-
NYL2-C025	2.5	65	175	282	107	X	-	-	X	-
NYL2-C030	3	80	175	461	154	-	X	-	X	-
NYL2-C041	4	100	50	841	274	-	X	-	X	-
NYL2-C040	4	100	175	841	274	-	-	X	-	X
NYL2-C051	5	125	50	1376	428	-	X	-	-	X
NYL2-C050	5	125	175	1376	428	-	-	-	-	-
NYL2-C061	6	150	50	1850	567	-	-	X	-	-

2-Way, Modulating

Actuator Model Details						Non-Spring Return			Spring Return	
						DM24-140	DM24-210	DM24-210-D	DMS24-180	DMS24-180-D
Model Number	Size		Close-Off PSI	Cv		Modulating				
	In.	mm		90˚	60˚	24 VAC/DC				
NYL2-C020	2	50	175	144	61	X	-	-	X	-
NYL2-C025	2.5	65	175	282	107	X	-	-	X	-
NYL2-C030	3	80	175	461	154	-	X	-	X	-
NYL2-C041	4	100	50	841	274	-	X	-	X	-
NYL2-C040	4	100	175	841	274	-	-	X	-	X
NYL2-C051	5	125	50	1376	428	-	X	-	-	X
NYL2-C050	5	125	175	1376	428	-	-	-	-	-
NYL2-C061	6	150	50	1850	567	-	-	X	-	-

3-Way

3-Way, On/Off or Floating

Actuator Model Details						Non-Spring Return			Spring Return	
						D24-140	D24-210	D24-210-D	DS24-180	DS24-180-D
Model Number	Size		Close-Off PSI	Cv		On/Off & Floating			On/Off	
	In.	mm		90˚	60˚	24 VAC/DC			24 VAC/DC	
NYL3-x020	2	50	175	144	61	X	-	-	X	-
NYL3-x025	2.5	65	175	282	107	-	X	-	X	-
NYL3-x030	3	80	175	461	154	-	X	-	-	X
NYL3-x041	4	100	50	841	274	-	X	-	-	X
NYL3-x040	4	100	175	841	274	-	-	X	-	-
NYL3-x051	5	125	50	1376	428	-	-	X	-	-
NYL3-x061	6	150	50	1850	567	-	-	X	-	-

3-Way, Modulating

Actuator Model Details						Non-Spring Return			Spring Return	
						DM24-140	DM24-210	DM24-210-D	DMS24-180	DMS24-180-D
Model Number	Size		Close-Off PSI	Cv		Modulating				
	In.	mm		90˚	60˚	24 VAC/DC				
NYL3-x020	2	50	175	144	61	X	-	-	X	-
NYL3-x025	2.5	65	175	282	107	-	X	-	X	-
NYL3-x030	3	80	175	461	154	-	X	-	-	X
NYL3-x041	4	100	50	841	274	-	X	-	-	X
NYL3-x040	4	100	175	841	274	-	-	X	-	-
NYL3-x051	5	125	50	1376	428	-	-	X	-	-
NYL3-x061	6	150	50	1850	567	-	-	X	-	-

Options/Adders
For optional auxiliary switches, add -A to the end of the actuator part number.
X = 3-Way Assemblies (Refer to Configuration Chart, Page 7)
For Spring Return Units:
N = Normally Open
C = Normally Closed - Factory default
-D = Dual mounted actuators
Replace NYL with ABL in part number when choosing Aluminium Bronze Disc

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2-Way with Industrial Electric Actuators

Nylon Coated Disc

2-Way, 24 VAC and 120 VAC, On/Off & Modulating - Nylon Coated Disc									
Actuator Model Details						Series 70 & AU Series		Series 70	
Valve Model Details	Size		Close-Off PSI	Cv		On/Off	Modulating	On/Off	Modulating
	In.	mm		90˚	60˚	120 VAC	120 VAC	24 VAC	24 VAC
NYL2-C020	2	50	175	144	61	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C025	2.5	65	175	282	107	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C030	3	80	175	461	154	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C041	4	100	50	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C040	4	100	175	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C051	5	125	50	1376	428	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C050	5	125	175	1376	428	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C061	6	150	50	1850	567	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C060	6	150	175	1850	567	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL2-C081	8	200	50	3316	1081	70-0121	70-0121SV	70-24-0201	70-24-0201SV
NYL2-C080	8	200	175	3316	1081	70-0201	70-0201SV	70-24-0201	70-24-0201SV
NYL2-C101	10	250	50	5430	1710	70-0201	70-0201SV	70-24-0201	70-24-0201SV
NYL2-C100	10	250	175	5430	1710	70-E301	70-E301SV	70-24-0501	70-24-0501SV
NYL2-C121	12	300	50	8077	2563	70-E301	70-E301SV	70-24-0501	70-24-0501SV
NYL2-C120	12	300	175	8077	2563	70-0501	70-0501SV	70-24-0501	70-24-0501SV
NYL2-C141	14	350	50	10538	3384	70-0501	70-0501SV	70-24-0501	70-24-0501SV
NYL2-C140	14	350	150	10538	3384	70-0651	70-0651SV	-	-
NYL2-C161	16	400	50	13966	4483	70-0501	70-0501SV	70-24-0501	70-24-0501SV
NYL2-C160	16	400	150	13966	4483	70-1300	70-1300SV	-	-
NYL2-C181	18	450	50	17214	5736	70-0651	70-0651SV	-	-
NYL2-C180	18	450	150	17214	5736	70-1300	70-1300SV	-	-
NYL2-C201	20	500	50	22339	7144	70-1300	70-1300SV	-	-
NYL2-C200	20	500	150	22339	7144	70-1800	70-1800SV	-	-
NYF2-C241	24	600	75	33154	11040	70-1800	70-1800SV	-	-
NYF2-C240	24	600	150	33154	11040	AU-4068	AU-4068SV	-	-
NYF2-C301	30	750	75	52443	18090	AU-4068	AU-4068SV	-	-
NYF2-C300	30	750	150	52443	18090	AU-7080	AU-7080SV	-	-

Aluminum Bronze Disc

2-Way, 24 VAC and 120 VAC, On/Off & Modulating - Aluminum Bronze Disc									
Actuator Model Details						Series 70 & AU Series		Series 70	
Valve Model Details	Size		Close-Off PSI	Cv		On/Off	Modulating	On/Off	Modulating
	In.	mm		90˚	60˚	120 VAC	120 VAC	24 VAC	24 VAC
ABL2-C020	2	50	175	144	61	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C025	2.5	65	175	282	107	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C030	3	80	175	461	154	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C041	4	100	50	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C040	4	100	175	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C051	5	125	50	1376	428	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C050	5	125	175	1376	428	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C061	6	150	50	1850	567	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL2-C060	6	150	175	1850	567	70-0121	70-0121SV	70-24-0201	70-24-0201SV
ABL2-C081	8	200	50	3316	1081	70-0121	70-0121SV	70-24-0201	70-24-0201SV
ABL2-C080	8	200	175	3316	1081	70-0201	70-0201SV	70-24-0201	70-24-0201SV
ABL2-C101	10	250	50	5430	1710	70-0201	70-0201SV	70-24-0201	70-24-0201SV
ABL2-C100	10	250	175	5430	1710	70-E301	70-E301SV	70-24-0501	70-24-0501SV
ABL2-C121	12	300	50	8077	2563	70-E301	70-E301SV	70-24-0501	70-24-0501SV
ABL2-C120	12	300	175	8077	2563	70-0501	70-0501SV	70-24-0501	70-24-0501SV
ABL2-C141	14	350	50	10538	3384	70-0501	70-0501SV	70-24-0501	70-24-0501SV
ABL2-C140	14	350	150	10538	3384	70-0651	70-0651SV	-	-
ABL2-C161	16	400	50	13966	4483	70-0651	70-0651SV	70-24-0501	70-24-0501SV
ABL2-C160	16	400	150	13966	4483	70-1300	70-1300SV	-	-
ABL2-C181	18	450	50	17214	5736	70-0651	70-0651SV	-	-
ABL2-C180	18	450	150	17214	5736	70-1300	70-1300SV	-	-
ABL2-C201	20	500	50	22339	7144	70-1300	70-1300SV	-	-
ABL2-C200	20	500	150	22339	7144	70-1800	70-1800SV	-	-

Options/Adders
For Heater/Thermostat kit, add "H" to the actuator part number.
For Battery Back-Up Failsafe Option (BBU) option on 24 VAC actuators, add "-BBU".
For Battery Back-UP Failsafe units:
N = Normally Open
C = Normally Closed - Factory default

3-Way with Industrial Electric Actuators

Nylon Coated Disc

3-Way, 24 VAC and 120 VAC, On/Off & Modulating - Nylon Coated Disc									
Actuator Model Details						Series 70 & AU Series		Series 70	
Valve Model Details	Size		Close-Off PSI	Cv		On/Off	Modulating	On/Off	Modulating
	In.	mm		90°	60°	120 VAC	120 VAC	24 VAC	24 VAC
NYL3-x020	2	50	175	144	61	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x025	2.5	65	175	282	107	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x030	3	80	175	461	154	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x041	4	100	50	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x040	4	100	175	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x051	5	125	50	1376	428	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x050	5	125	175	1376	428	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x061	6	150	50	1850	567	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x060	6	150	175	1850	567	70-0081	70-0081SV	70-24-0081	70-24-0081SV
NYL3-x081	8	200	50	3316	1081	70-0121	70-0121SV	70-24-0201	70-24-0201SV
NYL3-x080	8	200	175	3316	1081	70-0201	70-0201SV	70-24-0201	70-24-0201SV
NYL3-x101	10	250	50	5430	1710	70-E301	70-E301SV	70-24-0501	70-24-0501SV
NYL3-x100	10	250	175	5430	1710	70-0501	70-0501SV	70-24-0501	70-24-0501SV
NYL3-x121	12	300	50	8077	2563	70-0501	70-0501SV	70-24-0501	70-24-0501SV
NYL3-x120	12	300	175	8077	2563	70-0651	70-0651SV	-	-
NYL3-x141	14	350	50	10538	3384	70-0501	70-0501SV	70-24-0501	70-24-0501SV
NYL3-x140	14	350	150	10538	3384	70-1300	70-1300SV	-	-
NYL3-x161	16	400	50	13966	4483	70-0651	70-0651SV	-	-
NYL3-x160	16	400	150	13966	4483	70-1300	70-1300SV	-	-
NYL3-x181	18	450	50	17214	5736	70-1300	70-1300SV	-	-
NYL3-x180	18	450	150	17214	5736	70-1800	70-1800SV	-	-
NYL3-x201	20	500	50	22339	7144	70-1800	70-1800SV	-	-
NYL3-x200	20	500	150	22339	7144	AU-4068	AU-4068SV	-	-

Aluminum Bronze Disc

3-Way, 24 VAC and 120 VAC, On/Off & Modulating - Aluminium Bronze Disc									
Actuator Model Details						Series 70 & AU Series		Series 70	
Valve Model Details	Size		Close-Off PSI	Cv		On/Off	Modulating	On/Off	Modulating
	In.	mm		90°	60°	120 VAC	120 VAC	24 VAC	24 VAC
ABL3-x020	2	50	175	144	61	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL3-x025	2.5	65	175	282	107	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL3-x030	3	80	175	461	154	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL3-x041	4	100	50	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL3-x040	4	100	175	841	274	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL3-x051	5	125	50	1376	428	70-0081	70-0081SV	70-24-0081	70-24-0081SV
ABL3-x050	5	125	175	1376	428	70-0121	70-0121SV	70-24-0201	70-24-0201SV
ABL3-x061	6	150	50	1850	567	70-0121	70-0121SV	70-24-0201	70-24-0201SV
ABL3-x060	6	150	175	1850	567	70-0201	70-0201SV	70-24-0201	70-24-0201SV
ABL3-x081	8	200	50	3316	1081	70-0201	70-0201SV	70-24-0201	70-24-0201SV
ABL3-x080	8	200	175	3316	1081	70-E301	70-E301SV	70-24-0201	70-24-0201SV
ABL3-x101	10	250	50	5430	1710	70-E301	70-E301SV	70-24-0501	70-24-0501SV
ABL3-x100	10	250	175	5430	1710	70-0501	70-0501SV	70-24-0501	70-24-0501SV
ABL3-x121	12	300	50	8077	2563	70-0501	70-0501SV	70-24-0501	70-24-0501SV
ABL3-x120	12	300	175	8077	2563	70-0651	70-0651SV	70-24-0501	70-24-0501SV
ABL3-x141	14	350	50	10538	3384	70-0501	70-0501SV	70-24-0501	70-24-0501SV
ABL3-x140	14	350	150	10538	3384	70-1300	70-1300SV	-	-
ABL3-x161	16	400	50	13966	4483	70-0651	70-0651SV	-	-
ABL3-x160	16	400	150	13966	4483	70-1300	70-1300SV	-	-
ABL3-x181	18	450	50	17214	5736	70-1300	70-1300SV	-	-
ABL3-x180	18	450	150	17214	5736	70-1800	70-1800SV	-	-
ABL3-x201	20	500	50	22339	7144	70-1800	70-1800SV	-	-
ABL3-x200	20	500	150	22339	7144	AU-4068	AU-4068SV	-	-

Options/Adders
X = 3-Way Assemblies (Refer to Configuration Chart, Page 7)
For Heater/Thermostat kit, add "H" to the actuator part number.
For Battery Back-Up Failsafe Option (BBU) option on 24 VAC actuators, add "-BBU".

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2-Way with Series 92 Double Acting Pneumatic Actuators

Nylon Coated Disc

2-Way, Double Acting Pneumatic - Nylon Coated Disc

Actuator Model Details													
Valve Model Details	Size		Close-Off PSI	Cv		92-063	92-083	92-093	92-119	92-128	92-160	92-210	92-255
	In.	mm		90°	60°								
NYL2-C020	2	50	175	144	61	X	-	-	-	-	-	-	-
NYL2-C025	2.5	65	175	282	107	X	-	-	-	-	-	-	-
NYL2-C030	3	80	175	461	154	X	-	-	-	-	-	-	-
NYL2-C041	4	100	50	841	274	-	X	-	-	-	-	-	-
NYL2-C040	4	100	175	841	274	-	X	-	-	-	-	-	-
NYL2-C051	5	125	50	1376	428	-	X	-	-	-	-	-	-
NYL2-C050	5	125	175	1376	428	-	X	-	-	-	-	-	-
NYL2-C061	6	150	50	1850	567	-	X	-	-	-	-	-	-
NYL2-C060	6	150	175	1850	567	-	-	X	-	-	-	-	-
NYL2-C081	8	200	50	3316	1081	-	-	-	X	-	-	-	-
NYL2-C080	8	200	175	3316	1081	-	-	-	X	-	-	-	-
NYL2-C101	10	250	50	5430	1710	-	-	-	X	-	-	-	-
NYL2-C100	10	250	175	5430	1710	-	-	-	-	X	-	-	-
NYL2-C121	12	300	50	8077	2563	-	-	-	X	-	-	-	-
NYL2-C120	12	300	175	8077	2563	-	-	-	-	-	X	-	-
NYL2-C141	14	350	50	10538	3384	-	-	-	-	-	X	-	-
NYL2-C140	14	350	175	10538	3384	-	-	-	-	-	-	X	-
NYL2-C161	16	400	50	13966	4483	-	-	-	-	-	X	-	-
NYL2-C160	16	400	175	13966	4483	-	-	-	-	-	-	X	-
NYL2-C181	18	450	50	17214	5736	-	-	-	-	-	-	X	-
NYL2-C180	18	450	175	17214	5736	-	-	-	-	-	-	X	-
NYL2-C201	20	500	50	22339	7144	-	-	-	-	-	-	X	-
NYL2-C200	20	500	175	22339	7144	-	-	-	-	-	-	-	X
NYF2-C241	24	600	75	33154	11040	-	-	-	-	-	-	-	X
NYF2-C301	30	750	75	52443	18090	-	-	-	-	-	-	-	X

2-Way, Spring Return Pneumatic - Nylon Coated Disc

Actuator Model Details						Series 98 Pneumatic Scotch Yoke (Fail Close)	
Valve Model Details	Size		Close-Off PSI	Cv		98-45E2-12-DA	98-14E3-12-DA-C
	In.	mm		90°	60°		
NYF2-C240	24	600	150	33154	11040	X	-
NYF2-C300	30	750	150	52443	18090	-	X

Aluminium Bronze Disc

2-Way, Double Acting Pneumatic - Aluminium Bronze Disc

Actuator Model Details													
Valve Model Details	Size		Close-Off PSI	Cv		92-063	92-083	92-093	92-119	92-128	92-160	92-210	92-255
	In.	mm		90°	60°								
ABL2-C020	2	50	175	144	61	X	-	-	-	-	-	-	-
ABL2-C025	2.5	65	175	282	107	X	-	-	-	-	-	-	-
ABL2-C030	3	80	175	461	154	X	-	-	-	-	-	-	-
ABL2-C041	4	100	50	841	274	-	X	-	-	-	-	-	-
ABL2-C040	4	100	175	841	274	-	X	-	-	-	-	-	-
ABL2-C051	5	125	50	1376	428	-	X	-	-	-	-	-	-
ABL2-C050	5	125	175	1376	428	-	-	X	-	-	-	-	-
ABL2-C061	6	150	50	1850	567	-	X	-	-	-	-	-	-
ABL2-C060	6	150	175	1850	567	-	-	X	-	-	-	-	-
ABL2-C081	8	200	50	3316	1081	-	-	-	X	-	-	-	-
ABL2-C080	8	200	175	3316	1081	-	-	-	X	-	-	-	-
ABL2-C101	10	250	50	5430	1710	-	-	-	X	-	-	-	-
ABL2-C100	10	250	175	5430	1710	-	-	-	-	-	X	-	-
ABL2-C121	12	300	50	8077	2563	-	-	-	-	X	-	-	-
ABL2-C120	12	300	175	8077	2563	-	-	-	-	-	X	-	-
ABL2-C141	14	350	50	10538	3384	-	-	-	-	-	X	-	-
ABL2-C140	14	350	175	10538	3384	-	-	-	-	-	-	X	-
ABL2-C161	16	400	50	13966	4483	-	-	-	-	-	X	-	-
ABL2-C160	16	400	175	13966	4483	-	-	-	-	-	-	X	-
ABL2-C181	18	450	50	17214	5736	-	-	-	-	-	-	X	-
ABL2-C180	18	450	175	17214	5736	-	-	-	-	-	-	X	-
ABL2-C201	20	500	50	22339	7144	-	-	-	-	-	-	X	-
ABL2-C200	20	500	175	22339	7144	-	-	-	-	-	-	-	X

Options/Adders
* For Manual Override, add "-5" to the end of the part number.
For Spring Return Units:
N = Normally Open
C = Normally Closed - Factory default

3-Way with Series 92 Double Acting Pneumatic Actuators

Nylon Coated Disc

3-Way, Double Acting Pneumatic - Nylon Coated Disc

Valve Model Details	Size		Close-Off PSI	Cv		Actuator Model Details						
	In.	mm		90°	60°	92-083	92-093	92-119	92-128	92-160	92-210	92-255
NYL3-x020	2	50	175	144	61	X	-	-	-	-	-	-
NYL3-x025	2.5	65	175	282	107	X	-	-	-	-	-	-
NYL3-x030	3	80	175	461	154	X	-	-	-	-	-	-
NYL3-x041	4	100	50	841	274	X	-	-	-	-	-	-
NYL3-x040	4	100	175	841	274	X	-	-	-	-	-	-
NYL3-x-051	5	125	50	841	274	-	X	-	-	-	-	-
NYL3-x050	5	125	175	1376	428	-	-	X	-	-	-	-
NYL3-x061	6	150	50	1850	567	-	X	-	-	-	-	-
NYL3-x060	6	150	175	1850	567	-	-	X	-	-	-	-
NYL3-x081	8	200	50	3316	1081	-	-	X	-	-	-	-
NYL3-x080	8	200	175	3316	1081	-	-	-	X	-	-	-
NYL3-x101	10	250	50	5430	1710	-	-	X	-	-	-	-
NYL3-x100	10	250	175	5430	1710	-	-	-	-	X	-	-
NYL3-x121	12	300	50	8077	2563	-	-	-	-	X	-	-
NYL3-x120	12	300	175	8077	2563	-	-	-	-	-	X	-
NYL3-x141	14	350	50	10538	3384	-	-	-	-	X	-	-
NYL3-x140	14	350	150	10538	3384	-	-	-	-	-	X	-
NYL3-x161	16	400	50	13966	4483	-	-	-	-	-	X	-
NYL3-x160	16	400	150	13966	4483	-	-	-	-	-	-	X
NYL3-x181	18	450	50	17214	5736	-	-	-	-	-	X	-
NYL3-x180	18	450	150	17214	5736	-	-	-	-	-	-	X
NYL3-x201	20	500	50	22339	7144	-	-	-	-	-	X	-
NYL3-x200	20	500	150	22339	7144	-	-	-	-	-	-	X

Aluminium Bronze Disc

3-Way, Double Acting Pneumatic - Aluminium Bronze Disc

Valve Model Details	Size		Close-Off PSI	Cv		Actuator Model Details						
	In.	mm		90°	60°	92-083	92-093	92-119	92-128	92-160	92-210	92-255
ABL3-x020	2	50	175	144	61	X	-	-	-	-	-	-
ABL3-x025	2.5	65	175	282	107	X	-	-	-	-	-	-
ABL3-x030	3	80	175	461	154	X	-	-	-	-	-	-
ABL3-x041	4	100	50	841	274	X	-	-	-	-	-	-
ABL3-x040	4	100	175	841	274	X	-	-	-	-	-	-
ABL3-x051	5	125	50	1376	428	-	X	-	-	-	-	-
ABL3-x050	5	125	175	1376	428	-	-	X	-	-	-	-
ABL3-x061	6	150	50	1850	567	-	-	X	-	-	-	-
ABL3-x060	6	150	175	1850	567	-	-	X	-	-	-	-
ABL3-x081	8	200	50	3316	1081	-	-	X	-	-	-	-
ABL3-x080	8	200	175	3316	1081	-	-	-	X	-	-	-
ABL3-x101	10	250	50	5430	1710	-	-	-	X	-	-	-
ABL3-x100	10	250	175	5430	1710	-	-	-	-	X	-	-
ABL3-x121	12	300	50	8077	2563	-	-	-	-	X	-	-
ABL3-x120	12	300	175	8077	2563	-	-	-	-	-	X	-
ABL3-x141	14	350	50	10538	3384	-	-	-	-	X	-	-
ABL3-x140	14	350	150	10538	3384	-	-	-	-	-	X	-
ABL3-x161	16	400	50	13966	4483	-	-	-	-	-	X	-
ABL3-x160	16	400	150	13966	4483	-	-	-	-	-	-	X
ABL3-x181	18	450	50	17214	5736	-	-	-	-	-	X	-
ABL3-x180	18	450	150	17214	5736	-	-	-	-	-	-	X
ABL3-x201	20	500	50	22339	7144	-	-	-	-	-	X	-
ABL3-x200	20	500	150	22339	7144	-	-	-	-	-	-	X

Options/Adders
X = 3-Way Assemblies (Refer to Configuration Chart, Page 7)
* For Manual Override, add "-5" to the end of the part number.

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2-Way with Series 93 & 98 Spring Return Pneumatic Actuators

Nylon Coated Disc

2-Way, High Pressure Spring Return Pneumatic - Nylon Coated Disc

Actuator Model Details						Normally Closed (N.C.)	Normally Open (N.O.)
Valve Model Details	Size		Close-Off PSI	Cv		Model #	Model #
	In.	mm		90˚	60˚		
NYL2-C020	2	50	175	144	61	93-0834	93-0834
NYL2-C025	2.5	65	175	282	107	93-0834	93-0833
NYL2-C030	3	80	175	461	154	93-0834	93-0833
NYL2-C041	4	100	50	841	274	93-0834	93-0833
NYL2-C040	4	100	175	841	274	93-0935	93-0934
NYL2-C051	5	125	50	1376	428	93-0935	93-0934
NYL2-C050	5	125	175	1376	428	93-1194	93-1194
NYL2-C061	6	150	50	1850	567	93-1193	93-0934
NYL2-C060	6	150	175	1850	567	93-1195	93-1194
NYL2-C081	8	200	50	3316	1081	93-1195	93-1193
NYL2-C080	8	200	175	3316	1081	93-1604	93-1603
NYL2-C101	10	250	50	5430	1710	93-1604	93-1283
NYL2-C100	10	250	175	5430	1710	93-2103	93-2102
NYL2-C121	12	300	50	8077	2563	93-1605	93-1603
NYL2-C120	12	300	175	8077	2563	93-2105	93-2103
NYL2-C141	14	350	50	10538	3384	93-2104	93-2102
NYL2-C140	14	350	150	10538	3384	93-2106	93-2552
NYL2-C161	16	400	50	13966	4483	93-2105	93-2103
NYL2-C160	16	400	150	13966	4483	93-2554	93-2553
NYL2-C181	18	450	50	17214	5736	93-2105	93-2103
NYL2-C180	18	450	150	17214	5736	93-2555	93-2553
NYL2-C201	20	500	50	22339	7144	93-2553	93-2552
NYL2-C200	20	500	150	22339	7144	93-2556	93-2554

2-Way, High Pressure Spring Return Pneumatic - Nylon Coated Disc

Actuator Model Details						Series 98 Pneumatic Scotch Yoke (Fail Close)			
Valve Model Details	Size		Close-Off PSI	Cv		45E2-12-SR3	73E2-14-SR4-C	73E2-14-SR3-C	14E3-18-SR5-C
	In.	mm		90˚	60˚				
NYF2-C241	24	600	75	33154	11040	X	-	-	-
NYF2-C240	30	750	150	33154	11040	-	X	-	-
NYF2-C301	24	600	75	52443	18090	-	-	X	-
NYF2-C300	30	750	150	52443	18090	-	-	-	X

Aluminium Bronze Disc

2-Way, High Pressure Spring Return Pneumatic - Aluminium Bronze Disc

Actuator Model Details						Normally Closed (N.C.)	Normally Open (N.O.)
Valve Model Details	Size		Close-Off PSI	Cv		Model #	Model #
	In.	mm		90˚	60˚		
ABL2-C020	2	50	175	144	61	93-0834	93-0834
ABL2-C025	2.5	65	175	282	107	93-0834	93-0833
ABL2-C030	3	80	175	461	154	93-0835	93-0834
ABL2-C041	4	100	50	841	274	93-0835	93-0833
ABL2-C040	4	100	175	841	274	93-1193	93-0934
ABL2-C051	5	125	50	1376	428	93-0935	93-0934
ABL2-C050	5	125	175	1376	428	93-1195	93-1193
ABL2-C061	6	150	50	1850	567	93-1193	93-1192
ABL2-C060	6	150	175	1850	567	93-1196	93-1283
ABL2-C081	8	200	50	3316	1081	93-1196	93-1194
ABL2-C080	8	200	175	3316	1081	93-1605	93-1603
ABL2-C101	10	250	50	5430	1710	93-1604	93-1602
ABL2-C100	10	250	175	5430	1710	93-2104	93-2102
ABL2-C121	12	300	50	8077	2563	93-1606	93-1603
ABL2-C120	12	300	175	8077	2563	93-2105	93-2103
ABL2-C141	14	350	50	10538	3384	93-2104	93-2103
ABL2-C140	14	350	150	10538	3384	93-2553	93-2552
ABL2-C161	16	400	50	13966	4483	93-2105	93-2103
ABL2-C160	16	400	150	13966	4483	93-2554	93-2553
ABL2-C181	18	450	50	17214	5736	93-2106	93-2104
ABL2-C180	18	450	150	17214	5736	93-2556	93-2554
ABL2-C201	20	500	50	22339	7144	93-2553	93-2552

Options/Adders
* For Manual Override, add "-5" to the end of the part number.
For Spring Return Units:
N = Normally Open
C = Normally Closed - Factory default

3-Way with Series 93 Spring Return Pneumatic Actuators

Nylon Coated Disc

3-Way, Spring Return Pneumatic - Nylon Coated Disc

Actuator Model Details												
Valve Model Details	Size		Close-Off PSI	Cv		93-0834	93-0934	93-1194	93-1284	93-1604	93-2104	93-2554
	In.	mm		90˚	60˚							
NYL3-x020	2	50	175	144	61	x	-	-	-	-	-	-
NYL3-x025	2.5	65	175	282	107	-	x	-	-	-	-	-
NYL3-x030	3	80	175	461	154	-	-	x	-	-	-	-
NYL3-x041	4	100	50	841	274	-	x	-	-	-	-	-
NYL3-x040	4	100	175	841	274	-	-	x	-	-	-	-
NYL3-x051	5	125	50	1376	428	-	-	x	-	-	-	-
NYL3-x050	5	125	175	1376	428	-	-	-	x	-	-	-
NYL3-x061	6	150	50	1850	567	-	-	x	-	-	-	-
NYL3-x060	6	150	175	1850	567	-	-	-	-	x	-	-
NYL3-x081	8	200	50	3316	1081	-	-	-	-	x	-	-
NYL3-x080	8	200	175	3316	1081	-	-	-	-	-	x	-
NYL3-x101	10	250	50	5430	1710	-	-	-	-	-	x	-
NYL3-x100	10	250	175	5430	1710	-	-	-	-	-	x	-
NYL3-x121	12	300	50	8077	2563	-	-	-	-	-	x	-
NYL3-x120	12	300	175	8077	2563	-	-	-	-	-	-	x
NYL3-x141	14	350	50	10538	3384	-	-	-	-	-	x	-
NYL3-x140	14	350	150	10538	3384	-	-	-	-	-	-	x
NYL3-x161	16	400	50	13966	4483	-	-	-	-	-	-	x
NYL3-x181	18	450	50	17214	5736	-	-	-	-	-	-	x
NYL3-x201	20	500	50	22339	7144	-	-	-	-	-	-	x

Aluminium Bronze Disc

3-Way, Spring Return Pneumatic - Aluminium Bronze Disc

Actuator Model Details												
Valve Model Details	Size		Close-Off PSI	Cv		93-0934	93-1194	93-1284	93-1604	93-2104	93-2554	93-2555
	In.	mm		90˚	60˚							
ABL3-x020	2	50	175	144	61	x	-	-	-	-	-	-
ABL3-x025	2.5	65	175	282	107	-	x	-	-	-	-	-
ABL3-x030	3	80	175	461	154	-	-	x	-	-	-	-
ABL3-x041	4	100	50	841	274	-	x	-	-	-	-	-
ABL3-x040	4	100	175	841	274	-	-	x	-	-	-	-
ABL3-x051	5	125	50	1376	428	-	-	x	-	-	-	-
ABL3-x050	5	125	175	1376	428	-	-	-	x	-	-	-
ABL3-x061	6	150	50	1850	567	-	-	x	-	-	-	-
ABL3-x060	6	150	175	1850	567	-	-	-	-	x	-	-
ABL3-x081	8	200	50	3316	1081	-	-	-	x	-	-	-
ABL3-x080	8	200	175	3316	1081	-	-	-	-	x	-	-
ABL3-x101	10	250	50	5430	1710	-	-	-	-	x	-	-
ABL3-x100	10	250	175	5430	1710	-	-	-	-	-	x	-
ABL3-x121	12	300	50	8077	2563	-	-	-	-	x	-	-
ABL3-x120	12	300	175	8077	2563	-	-	-	-	-	x	-
ABL3-x141	14	350	50	10538	3384	-	-	-	-	-	x	-
ABL3-x140	14	350	150	10538	3384	-	-	-	-	-	-	x
ABL3-x161	16	400	50	13966	4483	-	-	-	-	-	x	-
ABL3-x181	18	450	50	17214	5736	-	-	-	-	-	x	-
ABL3-x201	20	500	50	22339	7144	-	-	-	-	-	-	x

Options/Adders
X = 3-Way Assemblies (Refer to Configuration Chart, Page 7)
* For Manual Override, add "-5" to the end of the part number.

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2 & 3-Way with Low Pressure Pneumatic Actuators

Nylon Coated Disc

2-Way, Low Pressure Pneumatic - Nylon Coated Disc

Actuator Model Details					D-3153	D-3244	D-3246	D-3246-D
Valve Model Details	Size		Close-Off PSI	Cv	Single Actuator			Tandem Actuators
	In.	mm		70°				
NYL2-C020	2	50	175	84	X	-	-	-
NYL2-C025	2.5	65	175	163	X	-	-	-
NYL2-C030	3	80	175	267	X	-	-	-
NYL2-C041	4	100	50	496	X	-	-	-
NYL2-C040	4	100	175	496	-	X	-	-
NYL2-C051	5	125	50	775	-	X	-	-
NYL2-C050	5	125	175	775	-	-	X	-
NYL2-C061	6	150	50	1025	-	-	X	-
NYL2-C060	6	150	175	1025	-	-	X	-
NYL2-C081	8	200	50	1862	-	-	X	-
NYL2-C080	8	200	175	1862	-	-	-	X
NYL2-C101	10	250	50	2948	-	-	-	X

3-Way, Low Pressure Pneumatic - Nylon Coated Disc

Actuator Model Details					D-3153	D-3244	D-3246	D-3246-D
Valve Model Details	Size		Close-Off PSI	Cv	Single Actuator			Tandem Actuators
	In.	mm		70°				
NYL3-x020	2	50	175	84	X	-	-	-
NYL3-x025	2.5	65	175	163	-	X	-	-
NYL3-x030	3	80	175	267	-	X	-	-
NYL3-x041	4	100	50	496	-	X	-	-
NYL3-x040	4	100	175	496	-	-	X	-
NYL3-x051	5	125	50	775	-	-	X	-
NYL3-x050	5	125	175	775	-	-	X	-
NYL3-x061	6	150	50	1025	-	-	X	-
NYL3-x060	6	150	175	1025	-	-	-	X
NYL3-x081	8	200	50	1862	-	-	-	X

Aluminium Bronze Disc

2-Way, Low Pressure Pneumatic - Aluminium Bronze Disc

Actuator Model Details					D-3153	D-3244	D-3246	D-3246-D
Valve Model Details	Size		Close-Off PSI	Cv	Single Actuator			Tandem Actuators
	In.	mm		70°				
ABL2-C020	2	50	175	84	X	-	-	-
ABL2-C025	2.5	65	175	163	X	-	-	-
ABL2-C030	3	80	175	267	X	-	-	-
ABL2-C041	4	100	50	496	X	-	-	-
ABL2-C040	4	100	175	496	-	X	-	-
ABL2-C051	5	125	50	775	-	X	-	-
ABL2-C050	5	125	175	775	-	-	X	-
ABL2-C061	6	150	50	1025	-	-	X	-
ABL2-C060	6	150	175	1025	-	-	X	-
ABL2-C081	8	200	50	1862	-	-	X	-
ABL2-C080	8	200	175	1862	-	-	-	X
ABL2-C101	10	250	50	2948	-	-	-	X

3-Way, Low Pressure Pneumatic - Aluminium Bronze Disc

Actuator Model Details					D-3153	D-3244	D-3246	D-3246-D
Valve Model Details	Size		Close-Off PSI	Cv	Single Actuator			Tandem Actuators
	In.	mm		70°				
ABL3-x020	2	50	175	84	X	-	-	-
ABL3-x025	2.5	65	175	163	-	X	-	-
ABL3-x030	3	80	175	267	-	X	-	-
ABL3-x041	4	100	50	496	-	X	-	-
ABL3-x040	4	100	175	496	-	-	X	-
ABL3-x051	5	125	50	775	-	-	X	-
ABL3-x050	5	125	175	775	-	-	X	-
ABL3-x061	6	150	50	1025	-	-	X	-
ABL3-x060	6	150	175	1025	-	-	-	X
ABL3-x081	8	200	50	1862	-	-	-	X

Options/Adders
X = 3-Way Assemblies (Refer to Configuration Chart, Page 7)
-D = Dual mounted actuators

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