Pneumatic Series 79P Actuator



Installation, Operation and Maintenance Manual



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Series 79P Pneumatic Actuator Introduction

Description

The Series 79P Pneumatic Actuator is a quarter turn operator, that has two opposed pistons with racks engaging with a single pinion on the actuator shaft. Racks and pinion engage with massive teeth over full length of pinion, resulting in balanced forces with minimal backlash.

Pistons and racks are molded polyarilamide for the PAG version, and Aluminum Alloy for the 316SS and Cataphoresis/Rilsan version. Piston guides are Polyacetal for sizes A through D5, and PTFE Bronze for sizes E through M. Pinion gears are Aluminum Alloy. Body and end caps are 316SS, Polyamide glass filled, or cast Aluminum Alloy Cataphoresis and Rilsan coated inside and outside. Actuator shaft is Stainless Steel or Cataphoresis coated steel. O-Rings are self-Lubricating BUNA-N. Air connections are ½" FNPT.

Actuator shaft can be used for manual override. Remove position indicator, and insert wrench on to shaft square and rotate. A de-clutchable gear override is required for air to air valve sizes 8" and above, and all air to sprig models.

Air Requirement

The condition and quality of the compressed air supply to an actuator will affect the efficiency and the life of the seals, guides, and actuator in general. We recommend installing a shutoff valve ahead of actuator to allow shutoff of air to allow removal of valve and actuator for maintenance.

80psi, clean, instrument quality dry air or gas is recommended for satisfactory operation. Lubricated air is acceptable, but is not necessary as the o-ring material is self-lubricating BUNA-N.

If air lubricators are used, the lubricant selected must be compatible with actuator internals!

Actuator may be used with liquid as the power source as long as liquid is compatible with actuator internals, and contains no suspended particles. The actuator environment temperature limits are -25°F and 195°F.

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Installation

Type 21 Ball Valves

Position the valve and the actuator to corresponding positions (either OPEN or CLOSED). The flats on the actuator shaft extension and the indicator knob should indicate valve position

Type 21 Ball Valves (See Drawing #0114BV sizes ½" – 2")

Install mounting bracket #3 to actuator #2 using bolts #8 and washers #9. Insert coupling #4 on stem of valve #1 and then bolt valve #1 to mounting bracket #3 using bolts #5, nuts #6, and washers #7.

Note: All bolts should be snug and not excessively over tightened.

Type 21 Ball Valves (See Drawing #0115BV sizes 2-1/2" - 4")

Install mounting bracket #3 to actuator #2 using bolts #8 and washers #9. Insert coupling #4 on stem of valve #1 and then bolt valve #1 to mounting bracket #3 using bolts #5, nuts #6, and washers #7.

Note: All bolts should be snug and not excessively over tightened.

Type 23 Ball Valve (3-way)

Position the valve and the actuator to corresponding positions (either OPEN or CLOSED). The flats on the actuator shaft extension and the indicator knob should indicate valve position

Type 23 Ball Valves (3-way): (See Drawing #0139BV, sizes ½" - 4") Install mounting bracket #3 to actuator #2 using bolts #8 and washers #9. Insert coupling #4 on stem of valve #1 and then bolt valve #1 to mounting bracket #3 using bolts #5, nuts #6, and washers #7.

Type 56/57 Butterfly Valves

Position the valve and the actuator to corresponding positions (either OPEN or CLOSED). The flats on the actuator shaft extension and the indicator knob should indicate valve position

CAUTION: If valve is in line, system must be shut down and have no line pressure before removing throttle plate and retaining washer.

Butterfly Valves (See Drawing # 0204BF sizes 1-1/2" - 6")

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No specially machined stem or valve body drilling required. Remove handle (remove handle cap and hex head bolt) to expose throttle plate screws. Remove throttle plate and retaining washer to expose existing bolt pattern. Insert actuator shaft adapter #9 into actuator. Mount bracket #2 to actuator with bolts #7 and tighten evenly. Install valve #1 onto mounting bracket and align stem of valve to engage with actuator shaft adapter. (Line scribed on top of stem indicates disc orientation). Install bolts and nuts #3 thru #6 and tighten evenly. Flats on actuator shaft indicate valve position. (Disc Orientation)

Butterfly Valves (See Drawing #0167BF sizes 8" - 16")

No specially machined stem or valve body drilling required. Remove gear operator by removing 4 thru bolts in body of valve to gear operator and lift off. Insert actuator shaft adapter #9 into actuator. Mount bracket #2 to actuator #10 using bolts #7 and washers #8. Install valve #1 to mounting bracket #2 using bolts #3, nuts #6, and washers #4, keeping in mind line scribed in valve stem indicates disc orientation before mounting and by flats on actuator shaft after mounting.

Type 75 Butterfly Valves

Butterfly Valves (See Drawing #1230 sizes 18" - 24")

No specially machined stem or valve body drilling required. Remove gear operator by removing 4 thru bolts in body of valve to gear operator and lift off. Insert actuator shaft adapter #9 into actuator. Mount bracket #2 to actuator #10 using bolts #7 and washers #8. Install valve #1 to mounting bracket #2 using bolts #3, nuts #6, and washers #4, keeping in mind line scribed in valve stem indicates disc orientation before mounting and by flats on actuator shaft after mounting.

<u>CAUTION:</u> If mounted unit is installed other than straight up, the actuator should be supported individually in order to prevent side loading and loosening up of fasteners.

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Operation

Single and Double Acting:

Pressurized air is introduced via the bottom, or right, port and displaces two opposed pistons. When the pistons are displaced, they in turn rotate the actuator output shaft counterclockwise, which opens the valve. This action is the same for single acting and double acting actuators.

Single Acting:

When the pressurized air is removed from the bottom, or right, port, the compressed springs located at the opposite side of the pistons extend. As the spring extend, they in turn rotate the actuator output shaft in a clockwise rotation, which closes the valve. The springs are ALWAYS under tension, so caution must be exercised.

Double Acting:

When the pressurized air is removed from the bottom, or right, port, the unit remains in the same position until pressurized air is applied to the top, or left, port (unlike the single acting actuator). When the pressurized air is introduced to the top port, it is channeled to the opposite side of the pistons, driving them to their original position, which in turn rotates the actuator output shaft in a clockwise direction, closing the valve.

Optional Solenoid Valve (See drawing #004PNU)

An optional solenoid valve (ASCO 8401 NAMUR mount) can be supplied mounted directly to the actuator. The cycling is accomplished by energizing the solenoid coil for one valve position (typically open), and de-energizing for the opposite valve position (typically closed). The unit is electrically fail safe; so it will return to its de-energized position on electrical failure, provided the air supply is not interrupted.

The 8401 solenoid is equipped with mufflers, speed controls, a manual override, and 18 inch long #18 AWG lead wire.

The speed controls are needle valves that will reduce the C_V value or increase the cycle time by creating back pressure within the actuator. Speed control adjustments are independent for the opening and closing strokes.

<u>Caution:</u> If speed control adjustments are screwed in too far, actuator can not exhaust properly and will not cycle!!

The manual override is engaged by pressing and rotating the red slotted screw clockwise 90 for the open position. Once the valve is open, simply rotate the red screw counter-clockwise 90 for the closed position.

<u>Caution:</u> Manual override will not work without air supply!!

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Maintenance

The Series 79P double rack and pinion actuators do not need any preventative maintenance.

Periodic checks should be performed to ensure proper tightness of all fasteners.

<u>Caution:</u> Isolate actuator from electrical power supply and compressed air supply before any maintenance is performed. Make sure both sides of pistons have been bled off.

CAUTION --- DANGER!!!!!!!

Failure to use proper tools can result in SERIOUS INJURY!



The actuator springs are very strong and are compressed when actuator is assembled.

Dis-assembly of Actuator

- 1. Remove end cap by slowly loosening end cap screws, in a crossing pattern
- 2. Remove springs
- 3. Repeat steps 1 and 2 for opposite end cap
- 4. Rotate shaft counter-clockwise to remove pistons.
- 5. Remove snap ring from shaft.
- 6. Slide shaft through actuator body and out the bottom.

Assembly of Actuator

- 1. Install shaft, washer, and secure with snap ring; making sure that the snap ring is seated
- 2. With the air inlet ports facing you, install pistons into actuator body with the rack of the right piston facing the air inlet ports.
- 3. Rotate shaft CCW (beyond open position) to engage both racks. Next, rotate shaft CW to pull pistons to the closed fully position (actuator shaft should not be cocked, and there should be equal distance between the actuator body and the pistons).
- 4. Install desired number of springs and end cap to actuator body.
- 5. Set end cap into position, and tighten screws, in a crossing pattern
- 6. Repeat steps 5 & 6 for other end.

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Repair Kits

NOTE: When ordering replacement actuator parts and/or options specify model #, serial number (and voltage, if applicable).

P/PA-Series

Actuator Model	Part Number	Actuator Model	Part Number
A79PA	2385001	D579PA	2385025
B79PA	2385000	E79PA	2385030
B579PA	2385005	F79P	2398040
C79PA	2385010	G79P	2398050
C579PA	2385015	L79P	2398060
D79PA	2385020	M79P	2398070

PAG-Series

Actuator Model	Part Number	Actuator Model	Part Number
AP79P	2386001	CP79P	2386010
BP79P	2386000	DP79P	2386020

316SS-Series

Actuator Model	Part Number	Actuator Model	Part Number
BS79P	2381000	DS79P	2381020
CS79P	2381010	ES79P	2381030

Each repair kit includes the following (Please reference exploded views)

Description	Item Number
1 set of piston o-rings	11
1 set of piston guides	0
1 set of guide rings	10
1 set of end cap o-rings	3
1 set of upper shaft o-rings	12
1 set of lower shaft o-rings	13
1 shaft washer	6
1 shaft snap ring	7

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Engineering Data

Actuators

	AIR CONSUMPTION (CUBIC INCHES)			
Madal	Air t	o Air	Air to S	Spring
Model No.	Open Port A	Close Port B	Open Port A	Close Port B
A79PA	4.58	6.71	4.58	ı
B79PA	9.15	10.98	9.15	ı
B579PA	17.09	22.58	17.09	ı
C79PA	21.36	27.46	21.36	ı
C579PA	39.66	50.04	39.66	ı
D79PA	48.82	70.17	48.82	ı
D579PA	91.53	123.26	91.53	ı
E79PA	125.09	183.06	125.09	ı
F79P	323.41	323.41	323.41	
G79P	640.71	427.14	640.71	-
L79P	1189.89	1263.11	1189.89	-
M79P	1891.62	1830.60	1891.62	-

	Cycle Time (Seconds)			
Madal	Air t	Air to Air		Spring
Model No.	Open Port A	Close Port B	Open Port A	Close Port B
A79PA	0.10	0.10	0.15	0.15
B79PA	0.15	0.15	0.20	0.20
B579PA	0.20	0.20	0.25	0.25
C79PA	0.25	0.25	0.30	0.30
C579PA	0.30	0.30	0.40	0.40
D79PA	0.40	0.40	0.50	0.50
D579PA	0.50	0.50	0.80	0.80
E79PA	0.60	0.60	1.20	1.20
F79P	1.20	1.20	2.00	2.00
G79P	2.00	2.00	6.00	6.00
L79P	3.00	3.00	6.00	5.00
M79P	4.00	4.00	8.00	6.00

Solenoids

All solenoid coils may be used at +10% to -10% of rated voltages. Coils are 50/60 Hertz and are rated for continuous duty if operated at 60 Hertz.

Note: Consult factory for non-standard voltages and for continuous duty at 50 Hertz.

Rated Voltage	In Rush Current Milliamp @ 60 Hz	Holding Current Milliamp @ 60 Hz	Watts @ Rated Voltages
120 VAC	113	71	6.2
24 VAC	566	360	6.2
240 VAC	56	35	6.2
12 VDC		583	7
24 VDC		292	7

Solenoids are furnished with 18 inch long #18 AWG lead wire.

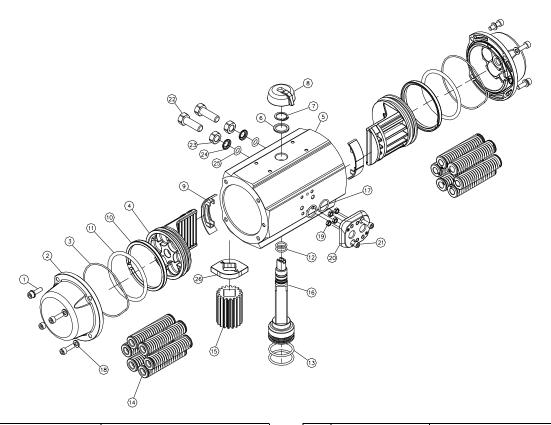
Attachments: 8 drawings:

0114BV, 0115BV, 0139BV, 0167BF, 0167BF57, 0204BF, 1230, 0004PNU

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Exploded Views

Typical PA-Series



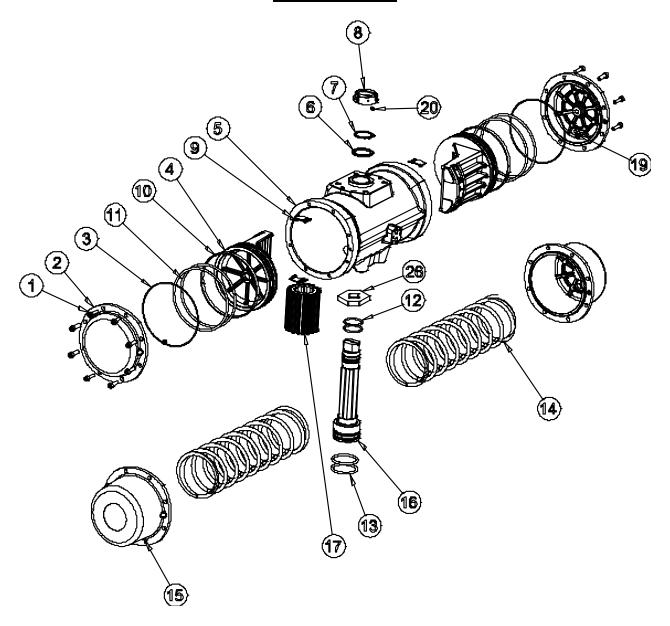
No	Description	Material
1	End Cap Bolt	304 Stainless Steel
2	End Cap	Cataphoresis and Polyurethane coated Aluminum Alloy
3	End Cap O-Ring	NBR
4	Piston	Cataphoresis Coated Aluminum Alloy
5	Actuator Body	Cataphoresis and Rilsan Coated Aluminum Alloy
6	Washer	Polyamide 6
7	Shaft Retaining Ring	Nickel PTFE Coated Steel
8	Position Indicator	Polyamide
9	Piston Guide	Polyacetal
10	Guide Ring	Polyacetal
11	Piston O-Ring	NBR
12	Upper Shaft O- Ring	NBR
13	Lower Shaft O- Ring	NBR

No	Description	Material
14	Spring Set	DIN-17223-C with Chromium Passivation
15	Pinion Gear	Aluminum Alloy
16	Shaft	Cataphoresis Coated Steel
17	Air Connection Plate O-Ring	NBR
18	End Cap Washer	304 Stainless Steel
19	Nut for Air Connection Plate	304 Stainless Steel
20	Air Connection Plate	Polyamide GF
21	Bolt for Air Connection Plate	304 Stainless Steel
22	Adjustment Bolt	Steel
23	Adjustment Locknut	304 Stainless Steel
24	Bushing	304 Stainless Steel
25	Travel Stop O-Ring	NBR
26	Travel Stop Cam	Cataphoresis Coated Steel

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^{*} End position travel adjustment is not available on the A79PA

Typical P-Series

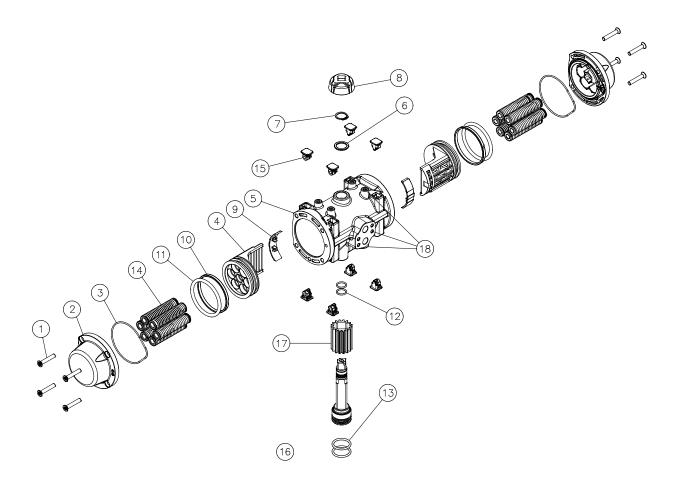


No	Description	Material
1	End Cap Bolt	304 Stainless Steel
2	Double Acting End Cap	Cataphoresis & Rilsan Coated Aluminum Alloy
3	End Cap O-Ring	NBR
4	Piston	Aluminum Alloy
5	Actuator Body	Cataphoresis & Rilsan Coated Aluminum Alloy
6	Washer	Polyamide 6
7	Shaft Retaining Ring	Cataphoresis Coated Steel
8	Position Indicator	Polyamide
9	Piston Guide	PTFE + Bronze

No	Description	Material
10	Guide Ring	PTFE + Bronze
11	Piston O-Ring	NBR
12	Upper Shaft O- Ring	NBR
13	Lower Shaft O- Ring	NBR
14	Spring Set	Cataphoresis Coated DIN- 17223-C
15	Spring Return End Cap	Cataphoresis & Rilsan Coated Aluminum Alloy
16	Shaft	Cataphoresis Coated Steel
17	Pinion Gear	Aluminum Alloy
19	End Cap Gasket	NBR

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Typical Series P79P (PAG)

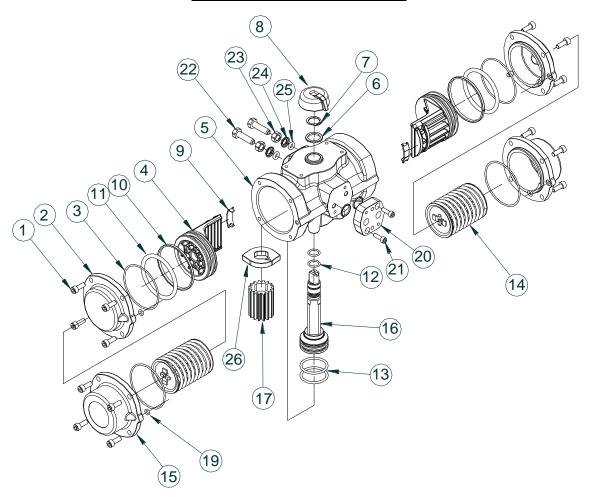


2 3	End Cap Bolt End Cap End Cap O-Ring	304 SS Polyamide
		•
3 1	End Cap O-Ring	
J .		NBR
4	Piston	Polyarilamide
5	Actuator Body	Polyamide
6	Washer	Polyacetal
7	Shaft Retaining Ring	Stainless Steel
8	Position Indicator	Polyamide
9	Piston Guide	Polyacetal

No	Description	Material
10	Guide Ring	Polyacetal
11	Piston O-Ring	NBR
12	Upper Shaft O- Ring	NBR
13	Lower Shaft O- Ring	NBR
14	Spring Set	DIN-17223-C with Chromium Passivation
15	Nut Protector	Polyamide
16	Shaft	303 Stainless Steel
17	Pinion Gear	Aluminum Alloy
-	-	-

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Typical Series S79P (316SS)



No	Description	Material
1	End Cap Bolt	316 Stainless Steel
2	Double Acting End Cap	316 Stainless Steel
3	End Cap O-Ring	NBR
4	Piston	Polyarilamide or Cataphoresis Coated Aluminum
5	Actuator Body	316 Stainless Steel
6	Washer	Polyamide 6
7	Shaft Retaining Ring	Stainless Steel
8	Position Indicator	Polyamide
9	Piston Guide	Polyacetal or PTFE/Bronze
10	Guide Ring	Polyacetal or PTFE/Bronze
11	Piston O-Ring	NBR
12	Upper Shaft O- Ring	NBR
13	Lower Shaft O- Ring	NBR

*	Fnd	position	travel	adiustment	is not	available o	n the BS79P

N o	Description	Material
14	Spring Set	Cataphoresis Coated DIN- 17223-C
15	Spring Return End Cap	316 Stainless Steel
16	Shaft	316 Stainless Steel
17	Pinion Gear	Aluminum Alloy
19	End Cap Gasket	NBR
20	Air Connection Plate	316 Stainless Steel
21	Bolt for Air Connection Plate	316 Stainless Steel
22	Adjustment Bolt	316 Stainless Steel
23	Adjustment Locknut	316 Stainless Steel
24	Bushing	316 Stainless Steel
25	Travel Stop O- Ring	NBR
26	Cam	316 Stainless Steel
-	-	-

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WITH OPTIONS

A-S

A-A

5.59

1.10 1.10

1.10 1.10

2.20

1.65

90'6

5.67

3.50

AP79PN

6.18

5.67

4.02 4.84

3,50

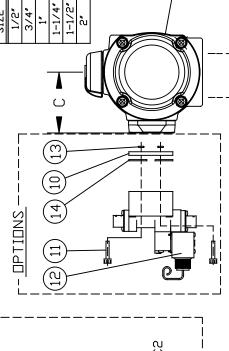
BP79PSN CP79PSN

AP79PN

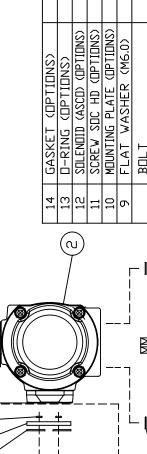
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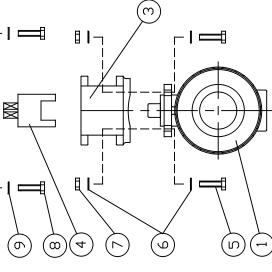
5,59 5.59

UNIT: INCH



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ر ر	ด	1	-1	-1	4	4	4	∞	4	1	1	1	1	QTY
NBR	NBR	ZYTEL	SS00E	ZYTEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL 303	PPG	C GLASS FILLED POLYAMIDE STAINLESS STEEL (OPTION)	PVC,CPVC,PP,PVDF	MATERIAL
GASKET (DPTIDNS)	D-RING (DPTIDNS)	SOLENDID (ASCD) (DPTIONS)	SCREW SOC HD (OPTIONS)	MDUNTING PLATE (DPTIDNS)	FLAT WASHER (M6.0)	BDLT (FDR A79 (PW) USE M5.0x.8-16LG) (FDR B79 (PO) USE M6.0x1-16LG) (FDR C79 (PI) USE M8.0x1.25-16LG)	NUT (FDR 1/2' THRU 1-1/4' : M5.0x.8) (FDR 1/2' THRU 1-1/4' : M6.0x1)	FLAT WASHER (FDR 1/2' THRU 1-1/4' : M5.0) (FDR 1/2' THRU 1-1/4' : M6.0)	BOLT (FOR 1/2" THRU 1-1/4" : M5,0x,8-16LG) (FOR 1/2" THRU 1-1/4" : M6,0x1-20LG)	CDUPLING	MDUNTING BRACKET	ACTUATOR SERIES 79	BALL VALVE TYPE 21	DESCRIPTION
14	13	12	11	10	6	8	7	9	D.	4	က	2	1	ITEM

UNIT: INCH

 Ξ

2″	4,43	2,60
1-1/4" 1-1/2"	3'98	2.17
1-1/4"	3,64	1,85
1"	3,29	1,54
3/4"	3,01	1,38
1/2″	2,76	1.14
VALVE SIZE	Н	H1

NOTE. The shape and appearance of assembly differ a little with nominal size compared to this drawing.

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BALL VAL	SERIES79 PNE	<u> </u>	 CIN DWG NO	<
TEN	DATE	8/14/01		
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ISO 9001 CERTIFIED

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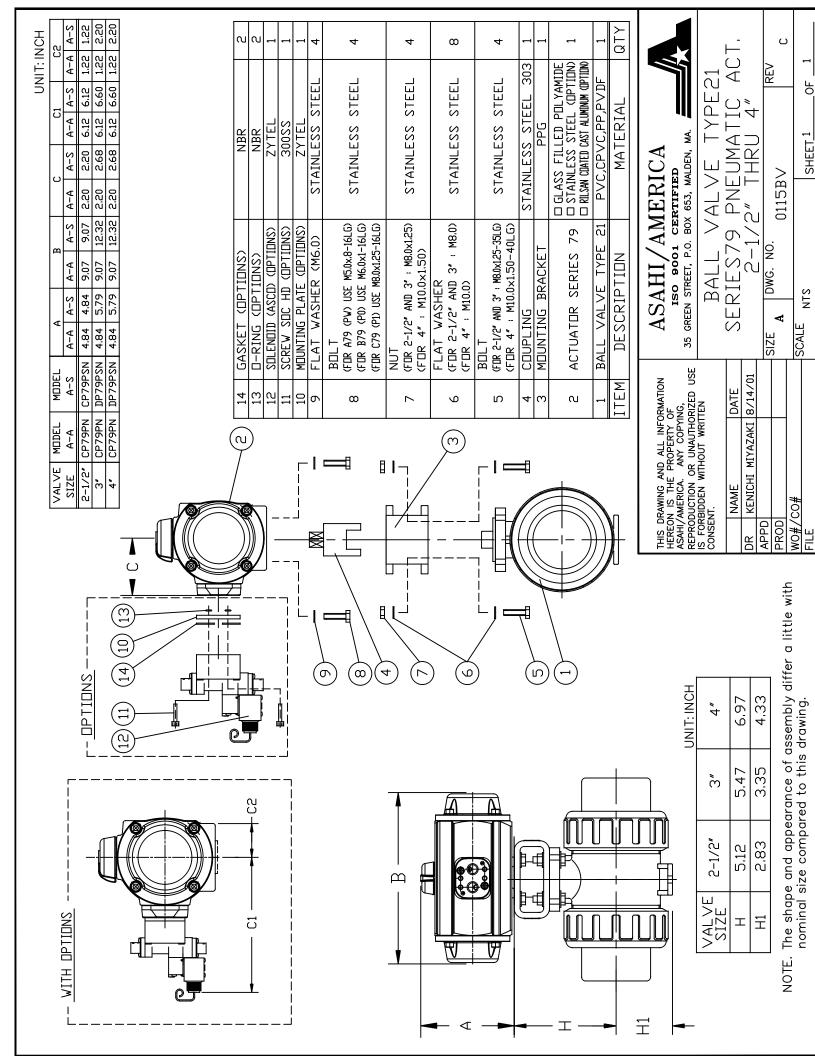
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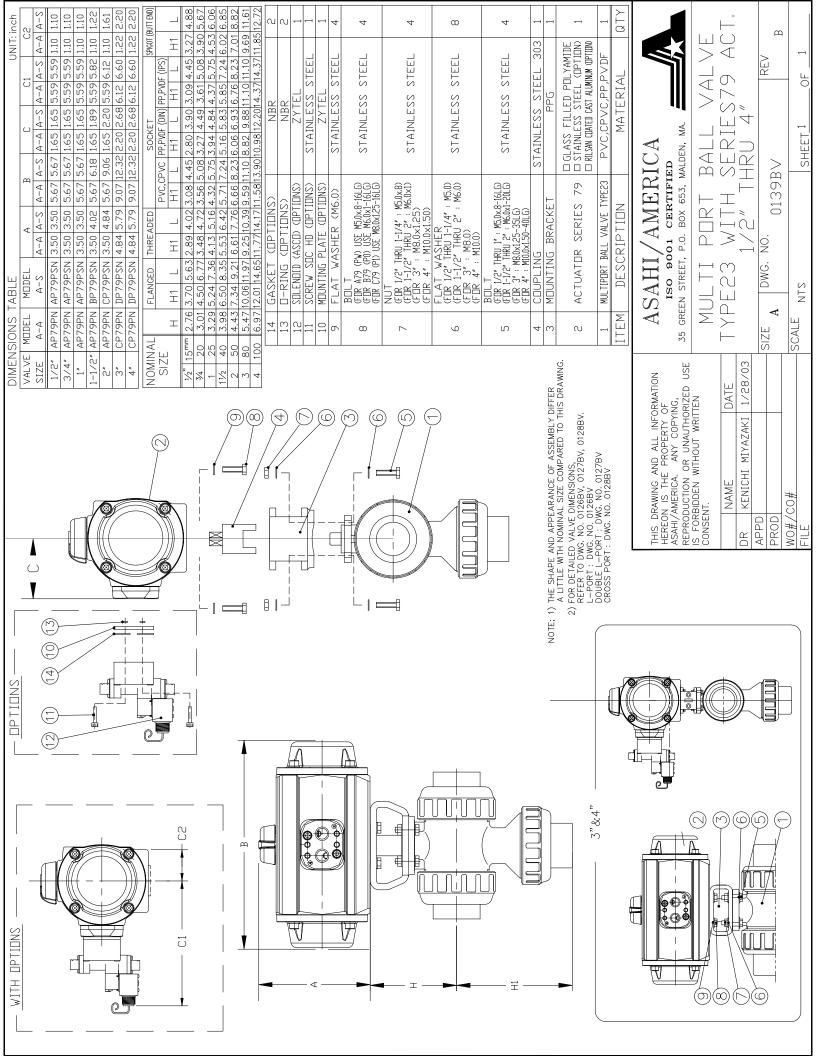
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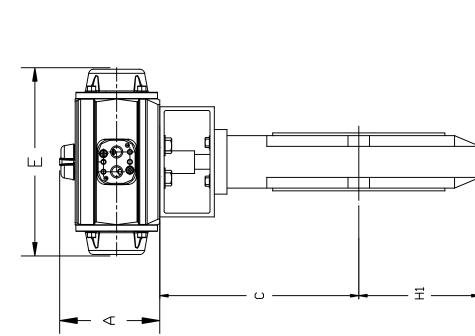
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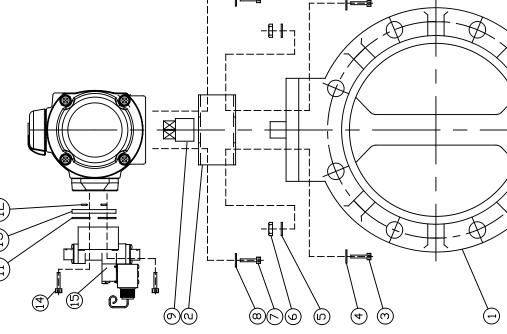
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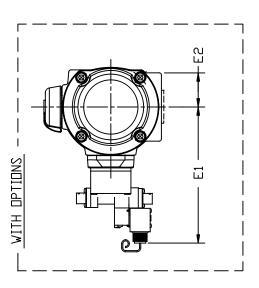
NTS











NDIE: ACTUATOR BODY IS CAST ALUMINUM
WITH RILSAN (POLYAMIDE NYLON II) CDATING FOR
VALVE SIZES 8 THROUGH 24 AIR-AIR AND 5 THROUGH
12 AIR-SPRING. ACTUATOR BODY IS AVAILABLE IN
STAINLESS SIZEL DR GLASS FILLED POLYAMIDE
FOR VALVE SIZES 1 1/2 THROUGH 12 AIR-AIR AND 1 1/2
THROUGH 10 AIR-SPRING

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303

OC HEAD (OPTIONS) STAINLESS STEEL

ASCD (DPTIDNS)

ZYTEL BB NBR

IUNTING (DPTIDNS)

303

STAINLESS STEEL

SERIES 79P

(SEE NDTE)

STAINLESS STEEL 303 STAINLESS STEEL 303

STAINLESS STEEL 303

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6.84

1,61

7.83

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6.25 6.25 6.25 6.84

12.32

90'6 90'6 90'6

6.18

12,32 12.32 16.89 25,54

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6.25

1,61 1.61

1.26

6.25

90'6 90'6 90'6

4.84 4.84 4.84 5.79 5,79

4,02

4.02 4.02 4.84

3.25 3,66 3,94 4.53

5.57

6,08 6.28 6,56 8,05

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6.25

6.02 6.02

A-A

A-S

A-A 6.02

A-S

A-A 6.18 6.18

A-S

A-A

Ξ

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VALVE

	NAME	DATE	
R.	KENICHI MIYAZAKI 9/6/01	10/9/6	
\PPD	PPD DAVE HURLEY	10/9/6	120
ROD	'ROD LED LESTER	10/9/6	2
1100/1101	# 00		
***	#		6

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4.84

9.41 9.41

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9.41

nominal size compared to this drawing.

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4.17

4.17

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7.83 8.72

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10,71

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27.32 27.32

17,48 17.48 17,48

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12,32 10,71

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16.78 14,81

NOTE.

4.17

2,83 2.83

7.83

2,05

7,83 9.41

12.32

7.52

5.63 69'9 7.99 9.53

9.01

5.79

5,00

4.84 4.84 5.79 7.52

35 GREEN STREET, P.O. BOX 653, MALDEN, MA. ISO 9001 CERTIFIED ASAHI

|QTY|

STAINLESS STEEL 303

303

STAINLESS STEEL

STAINLESS STEEL 303

PVC, PP, PVJF MATERIAL

BUTTERFLY VALVE TYPE56

DESCRIPTION

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303

STAINLESS STEEL

YPES6 C ACT, PNEUMA VALVEIHRU BUTTERFLY ES79P SERIE

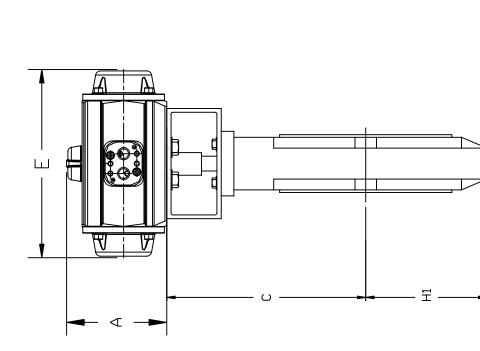
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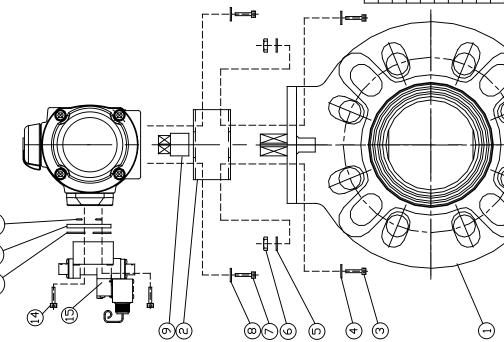
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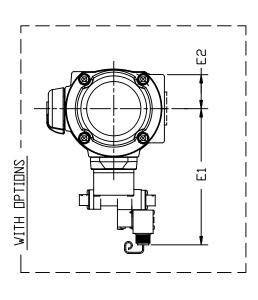
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SHEET 1

NTS SCALE The shape and appearance of assembly differ a little with







NOTE: ACTUATOR BODY IS CAST ALUMINUM
WITH RILSAN (POLYAMIDE NYLON II) CDATING FOR
VALVE SIZES 8 THROUGH 24 AIR-AIR AND 5 THROUGH
12 AIR-SPRING. ACTUATOR BODY IS AVAILABLE IN
STAINLESS STEEL OR GLASS FILLED POLYAMIDE
FOR VALVE SIZES 1 1/2 THROUGH 12 AIR-AIR AND 1 1/2
THROUGH 10 AIR-SPRING

SUCCIMULD, MSCD YOF LIDING!	ZYTEL	-
SCREW, SDC HEAD (DPTIDNS)	STAINLESS STEEL 303	ત
PLATE MOUNTING (OPTIONS)	ZYTEL	-
D-RING (DPTIDNS)	NBR	5
GASKET (DPTIDNS)	NBR	5
ACTUATDR (SEE NDTE)	SERIES 79P	1
SHAFT ADAPTER	STAINLESS STEEL 303	1
FLAT WASHER	STAINLESS STEEL 303	4
	STAINLESS STEEL 303	4
NUT, HEX LDCKING	STAINLESS STEEL 303	4
WASHER, FLAT	STAINLESS STEEL 303	4
WASHER, FLAT	STAINLESS STEEL 303	4
	STAINLESS STEEL 303	4
MDUNTING BRACKET	STAINLESS STEEL 303	1
BUTTERFLY VALVE TYPES6	PVC, PP, PVDF	1
DESCRIPTION	MATERIAL	ΩTY
	UC HEAD (UPTIDNS) INTING (OPTIDNS) PTIDNS) PTIDNS) (SEE NDTE) (SEE NDTE) LOCKING LOCKING LAT LAT BRACKET (VALVE TYPE56	CUPTIDNS) STAINLESS STEEL DPTIDNS) ZYTEL NBR NBR NBR NBR SERIES 79P STAINLESS STEEL

2,83 4,84 2,05 A-S 2,05 2,05 4.17 1,61 1,61 1.61 2,05 2,83 2,83 4.84 A-A 1,26 1.26 1.26 4.17 1.61 1,61 1,61 6.84 | 7.83 8.42 6.25 6.25 6.84 6.84 7,83 7.83 8.42 A-S 6.25 9,41 9.41 8.42 6.25 6.25 6.25 7.83 8.42 6.02 A-A 6.02 6.02 12,32 12,32 16,89 25.54 25.54 27.32 12,32 27,32 90'6 90'6 90'6 A-S 12,32 16.89 16,89 17,48 17.48 9.06 90'6 6.18 6.18 6.18 9.06 12,32 12,32 5,79 4.84 4.84 4.84 5,79 7.52 10.71 5,79 10.71 A-S 10.24 12.32 4.84 4.84 5,79 7,52 A-A 4,02 4,02 4.84 7,52 10.71 4.02 5,63 3.25 2,95 3,66 3,94 4.53 69'9 7.99 9.53 5,00 달 12,46 14.69 6.28 92'9 11.27 14.81 6.08 5,50 5,57 8,05 9.01 ပ VALVE 1/2 SIZE 10 12 14 4 9 ω ณ ഗ

UNIT: INCH

NOTE. The shape and appearance of assembly differ a little with nominal size compared to this drawing.

35 GREEN STREET, P.O. BOX 653, MALDEN, MA. AMERICA ISO 9001 CERTIFIED ASAHI

USE

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YPE57 PNEUMA VALVE ES79P BUTTERFL SERIES79

REV
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NO.
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SIZE

6/15/05

APPD|DAVE HURLEY PROD LED LESTER

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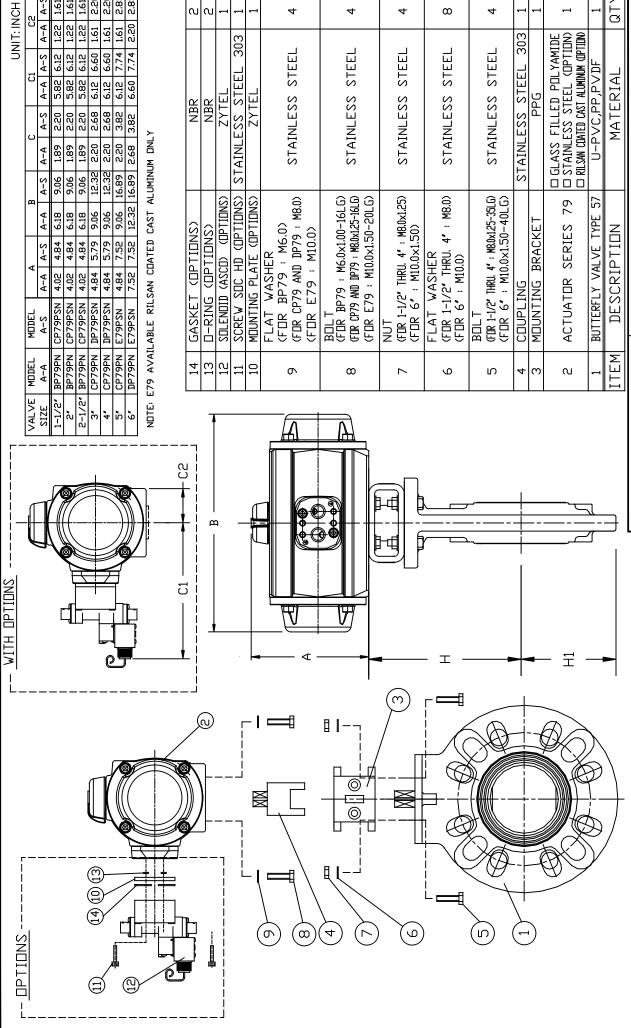
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Ы SHEET 1 NTS SCALE 6/15/05



A-A A-S

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 	14	GASKET (DPTIDNS)	ABN
	13	D-RING (DPTIDNS)	ABN
ı	12	SOLENDID (ASCD) (OPTIONS)	ZYTEL
	11	SCREW SOC HD (OPTIONS)	STAINLESS STEEL 303
	10	MDUNTING PLATE (DPTIDNS)	ZYTEL
		FLAT WASHER	
	δ	(FDR BP79 : M6.0) (FDR CP79 AND DP79 : M8.0)	STAINLESS STEEL
		(FDR E79 : M10.0)	
		BOLT (FIIR BP79 : M6.0x1.00-161 G)	
	ω	(FDR CP79 AND DP79 : M8.0x1.25-16LG)	STAINLESS STEEL
		(FDR E79 : M10.0×1.50-20LG)	
		NUT	
- D	7	(FDR 1-1/2" THRU, 4" : M8.0x1.25) (FDR 6" : M10.0x1.50)	STAINLESS STEEL
		FLAT WASHER	
	9	(FDR 1-1/2" THRU, 4" : M8.0)	STAINLESS STEEL
		(FDR 6" : M10.0)	
		BOLT	
	വ	(FDR 1-1/2" THRU, 4" : M8.0x.1.25-35LG) (FDR 6" : M10.0x1.50-40LG)	STAINLESS STEEL
	4	CDUPLING	STAINLESS STEEL 303
	3	MDUNTING BRACKET	PPG
	(1	GLASS FILLED POLYAMIDE
	a	ACTUATOR SERIES 79	O STAINLESS STEEL (OPTION OPTION CONTION
	1	BUTTERFLY VALVE TYPE 57	U-PVC,PP,PVDF
	ITEM	DESCRIPTION	MATERIAL

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8,46 5,00 ູ້ດ 4,53 7.16 * 3,94 6,46 ო 2-1/2" 3,66 6.18 5,75 3.27 2,95 VALVE 1-1/2" SIZE 5,51

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5,63

8,97

UNIT: INCH

NOTE: 1.The shape and appearance of assembly differ a little with nominal size compared to this drawing.

2. For 1-1/2" thru. 4" Mounting Bracket : F7 x F05,F07 For 5" and 6" Mounting Bracket : F10 \times F07,F10

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AMERICA

QTY

TYPE57	ACT,	
	Γ	<u>"</u>
VALVE	NEUMATIC	
BUTTERFLY	<u>Ф</u>	1-1/2″

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_	DWG.
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SIZE

6/14/05

APPD DAVE HURLEY PROD LED LESTER

#00/#0M

JOHN GLASSFORD 6/14/05

DR

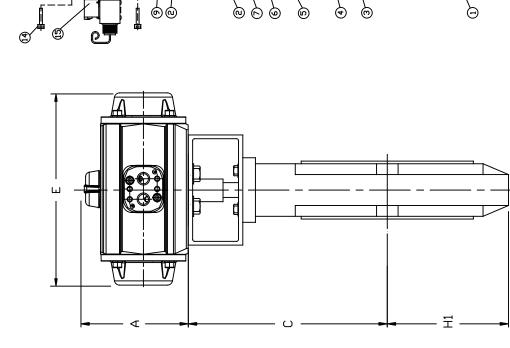
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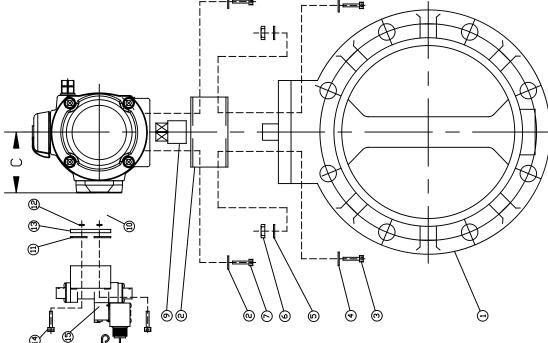
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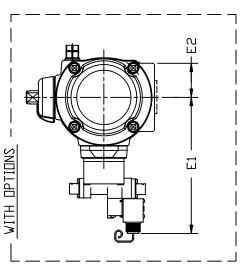
SHEET UCU4B1 U/ NTS SCALE

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NDIE: ACTUATOR BODY IS CAST ALUMINUM WITH RILSAN (POLYAMIDE NYLON II) CDATING

10	SDLENDID, ASCD (OPTIONS)	ZYTEL	-
	SCREW, SDC HEAD (DPTIDNS)	SS00E	5
	PLATE MOUNTING (OPTIONS)	ZYTEL	1
	D-RING (DPTIDNS)	NBR	2
	GASKET (DPTIDNS)	NBR	7
	ACTUATOR (SEE NOTE)	SERIES 79P	1
	SHAFT ADAPTER	30088	1
	WASHER, LDCK	30088	4
	SCREW	300SS	4
	NUT, HEX LDCKING	300SS	4
	WASHER, FLAT	SS00E	4
	WASHER, FLAT	SS00E	4
	SCREW	SS00E	4
	MDUNTING BRACKET	300SS	1
	BUTTERFLY VALVE TYPE75	PVC, PP, PVDF	1
	DESCRIPTION	MATERIAL	ΩTY

UNIT: INCH

E2	A-S	8,54	8,54	8.54
ш	A-A	5.31	5.31	5.31
E1	A-S	11.87	11.87 5	11.87
L	A-A	9.39	9'39	9,39
	A-S	29.25	29.25	2925
لبا	A-A	20.63	20.63	20.63
	A-S	16.85	16.85	16.85
∢	A-A	12,32	12,32	12.32
H		12.40	13,78	16.02
ပ		17.57	18,75	21.31
VALVE	SIZE	18	50	24

NOTE. The shape and appearance of assembly differ a little with nominal size compared to this drawing.

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35 C	(/)			SIZE	7
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'AMERICA. ANY COPYING, DUCTION OR UNAUTHORIZED USE RBIDDEN WITHOUT WRITTEN NT.		KENICHI MIYAZAKI 9/6/01			
'AMERICA. DUCTION O RBIDDEN WI.	NAME	KENICHI			

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${ m ASAHI}/{ m AMERICA}$	ISO 9001 CERTIFIED	SREEN STREET, P.O. BOX 653, MALDEN, MA.	HITTEREI Y VAI VE

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VAL\	PNEUN	THRU
BUTTERFLY	SERIES79P	&

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DWG. NO.	OLIV
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SIZE	SCALE

SHEET 1

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