



ONYX VALVE

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"Fluid Handling Specialists"

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Automated
Valves

Table of Contents

	Model	Configuration	Page
	GSS	<ul style="list-style-type: none"> • Direct Air Operated • Slip-On connection • Enclosed, Full Round • 1/2" to 4" 	Page 1
	GSF	<ul style="list-style-type: none"> • Direct Air Operated • Flanged connection • Enclosed, Full Round • 1" to 14" 	Page 2
	GSD	<ul style="list-style-type: none"> • Direct Air Operated "Double Wall" • Flanged connection • Enclosed, Full Round • 1" to 12" 	Page 3
	CAR	<ul style="list-style-type: none"> • Enclosed, Full Round, single pinch • Pneumatic actuator • 1/2" to 3" 	Page 4
	CAP	<ul style="list-style-type: none"> • Enclosed, Pre-pinch on Center Line • Pneumatic actuator • 4" to 12" 	Page 5
	DAC	<ul style="list-style-type: none"> • Enclosed, Full Round, dual pinch • Pneumatic actuator • 1" to 30" 	Page 6
	DAO	<ul style="list-style-type: none"> • Open Frame, Dual Pinch, Pneumatically Operated • Choice of Air Bag & Spring or Double Acting Pneumatic actuators. • 1" through 24" 	Page 7
	CER & CEP	<p>CER VALVES</p> <ul style="list-style-type: none"> • Enclosed, Full Round, Single Pinch • Electric Actuator • 1/2" to 3" <p>CEP VALVES</p> <ul style="list-style-type: none"> • Enclosed, Pre-Pinched, Single Pinch • Electric Actuator • 4" to 24" 	Page 8 & 9
	DEC	<ul style="list-style-type: none"> • Enclosed, Full Round, dual pinch • Electric actuator • 1" to 30" 	Page 10
	PFO & PFC	<ul style="list-style-type: none"> • Pneumatic actuators • Air Bag & Spring design • Available in Fail-Open or Fail-Closed. 	Pages 11 & 12

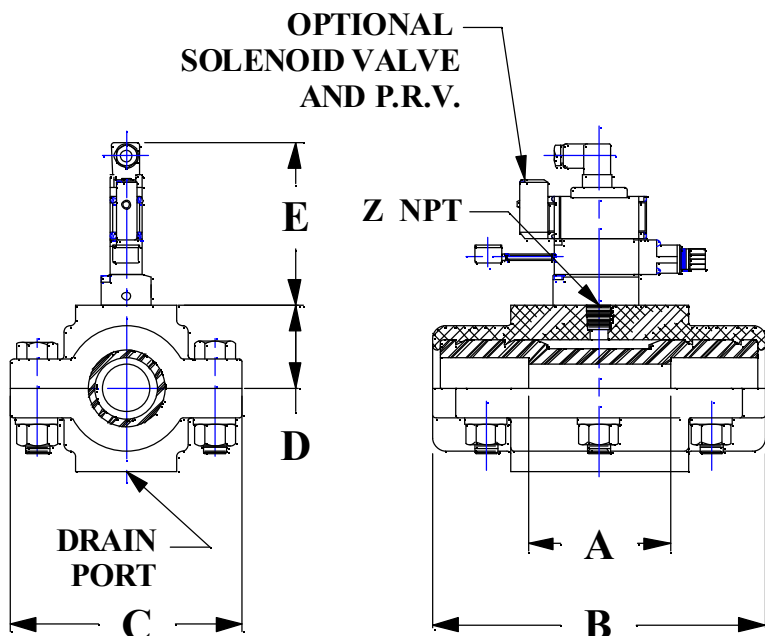
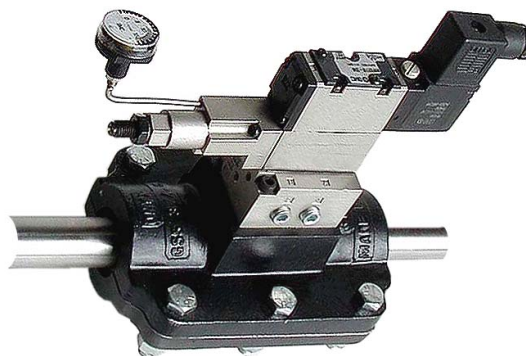
Series GSS

Full Round, Direct Air Operated, Enclosed Construction, Slip-On Connection

- Clog resistant full round opening
- Light weight cast aluminum housing
- Slip-on pipe connection. No threads, grooves, or flanges
- Low pressure drop
- No packing
- Drop tight closure
- Simple operation, rubber sleeve is the only moving part.

Applications: Ideal for controlling abrasive, viscous and corrosive fluids including wastewater, mine slurries, chemicals, cement, pulp stock, powder and pellets.

Operation: The GSS consists of a rubber sleeve inside a full round cast aluminum bonnet assembly. Injecting compressed air into the bonnet assembly causes the rubber sleeve to collapse, blocking flow through the valve. When the pressure is released, the resiliency of the rubber sleeve reopens the valve.



Specifications:

- Aluminum housing

Options:

- Epoxy paint
- Sleeve elastomer
- Bolt-on pact solenoid valve is a 4-way, 5-port solenoid with weatherproof coil and manual override.
- PRV (with solenoid valve)
- I/P transducer for modulating service

All dimensions are in inches.

SIZE	1/4	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
A	2.00	2.38	3.12	3.00	3.50	4.25	5.50	7.00	8.00	10.00
B	4.75	5.50	6.00	7.00	8.25	10.00	11.50	14.00	16.00	20.00
C	3.62	4.00	4.25	4.87	5.31	5.56	7.18	7.81	9.12	10.31
D	1.18	1.37	1.56	1.75	2.00	2.18	2.56	3.06	3.50	4.43
E	4.62			6.82						8.00
Z	1/4 NPT									3/8 NPT
Wt, lb	1.5	2	3	5	7	11	15	21	25	44
P Max	50 psi							35 psi	30 psi	25 psi

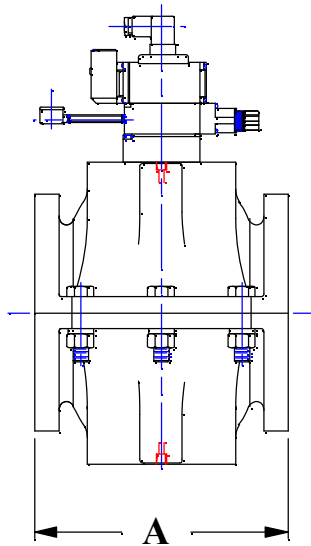
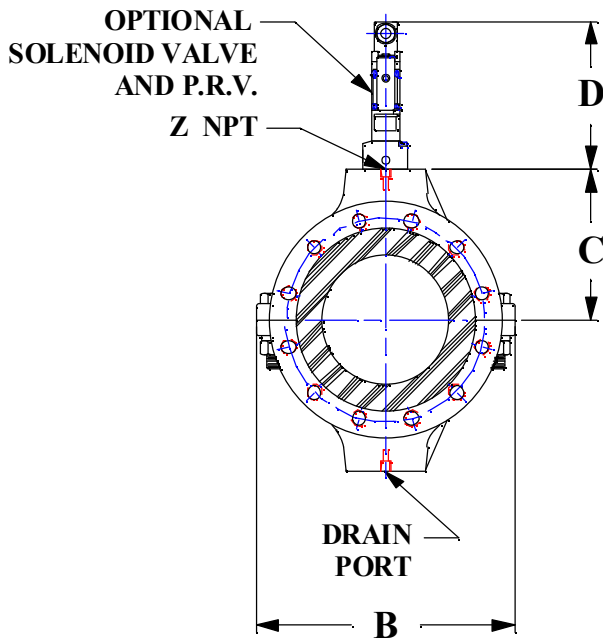
Series GSF

Full Round, Flange Connection, Enclosed Construction, Direct Air Operated

- Clog resistant full round opening
- Low pressure drop
- No packing
- Drop tight closure
- Simple operation, rubber sleeve is the only moving part.

Applications: Ideal for controlling abrasive, viscous and corrosive fluids including wastewater, mine slurries, chemicals, cement, pulp stock, powder and pellets.

Operation: The GSF consists of a rubber sleeve inside a full round cast iron bonnet assembly. Injecting compressed air into the bonnet assembly causes the rubber sleeve to collapse, blocking flow through the valve. When the pressure is released, the resiliency of the rubber sleeve reopens the valve.



Specifications:

- Flanges: ANSI STD B-16, 125 lbs
- Housing: Cast Iron ASTM A48, Class 35

Options:

- Epoxy paint
- Sleeve elastomer
- Bolt-on pact solenoid valve is a 4-way, 5-port solenoid with weatherproof coil and manual override.
- PRV (with solenoid valve)
- I/P transducer for modulating service

All dimensions are in inches.

SIZE	1	1.25	1.5	2	2.5	3	4	5	6	8	10	12	14
A	4.00	4.31	4.75	5.25	5.75	6.00	8.00	10.00	12.00	16.00	20.00	24.00	28.00
B	4.62	4.87	5.37	6.37	7.00	7.50	9.25	10.62	12.25	14.50	16.87	20.00	22.50
C	2.12	2.37	2.50	3.06	3.56	3.81	4.62	5.62	7.00	8.37	10.25	11.75	13.00
D	4.62			6.82						8.00			
Z	1/4 NPT						1/2 NPT			3/4 NPT			
WT	12	13	15	23	32	36	64	85	120	205	300	540	620
AIR *	0.02	0.03	0.05	0.08	0.13	0.14	0.37	0.66	1.10	2.50	4.60	10.00	17.00
P	90 psi			75 psi			65 psi			55 psi		50 psi	

* Unit of Measure = ft³/cycle

* Air consumption per cycle at STP using 90 psi air.

Series GSD

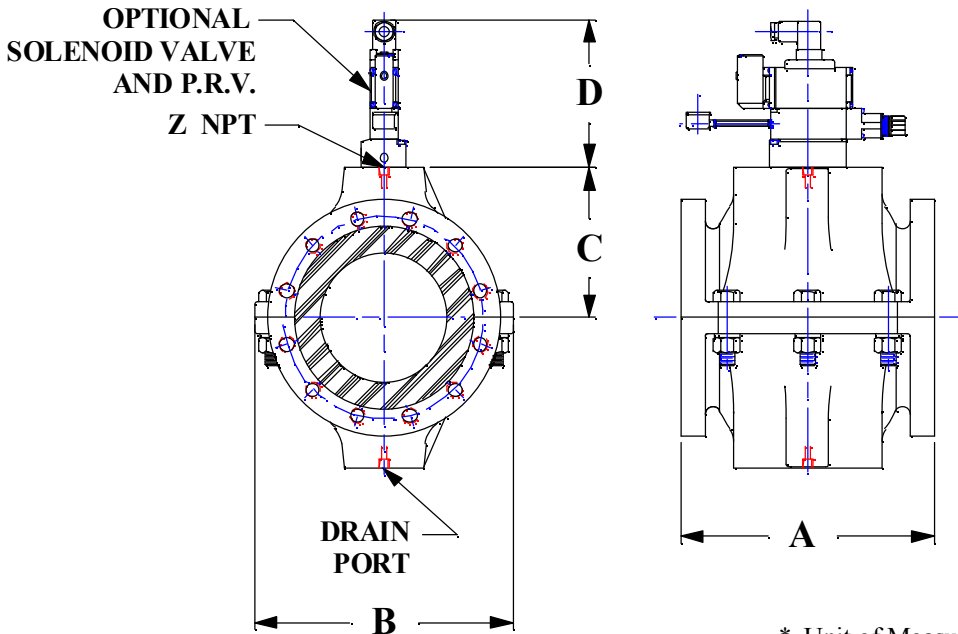
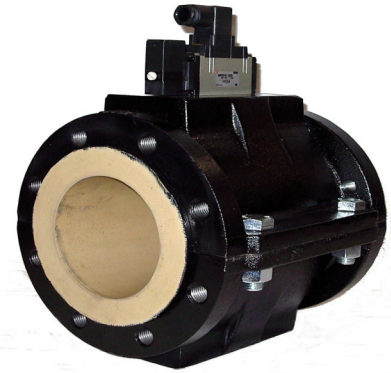
Full Round, Flange Connection, Enclosed Construction, Direct Air Operated

The GSD is the same valve as the GSF except it has a double thick rubber sleeve.

- Clog resistant full round opening
- Low pressure drop
- No packing
- Drop tight closure
- Simple operation, rubber sleeve is the only moving part.

Applications: Ideal for abrasive, viscous and corrosive fluids including wastewater, mine slurries, chemicals, cement, pulp stock, powder and pellets.

Operation: The GSF consists of a rubber sleeve inside a full round cast iron bonnet assembly. Injecting compressed air into the bonnet assembly causes the rubber sleeve to collapse, blocking flow through the valve. When the pressure is released, the resiliency of the rubber sleeve reopens the valve.



Specifications:

- Flanges: ANSI STD B-16, 125 lbs
- Housing: Cast Iron ASTM A48, Class 35

Options:

- Epoxy paint
- Sleeve elastomer
- Bolt-on pact solenoid valve is a 4-way, 5-port solenoid with weatherproof coil and manual override.
- PRV (with solenoid valve)
- I/P transducer for modulating service

* Unit of Measure = ft³/cycle

* Air consumption per cycle at STP using 90 psi air.

All dimensions are in inches.

SIZE	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12
FLANGE	2			3		4	5	6	8	10	12	14
A	5.25			6.00		8.00	10.00	12.00	16.00	20.00	24.00	28.00
B	6.37			7.50		9.25	10.62	12.25	14.50	16.87	20.00	22.50
C	3.06			3.81		4.62	5.62	7.00	8.37	10.25	11.75	13.00
D	6.82								8.00			
Z	1/4 NPT				1/2 NPT			3/4 NPT		1 NPT		
WT	23			36		64	85	120	205	300	540	620
AIR *	0.08 Max			0.14		0.37	0.66	1.10	2.50	4.60	10.00	17.00
P	90 psi				75psi		65 psi		55 psi		50 psi	

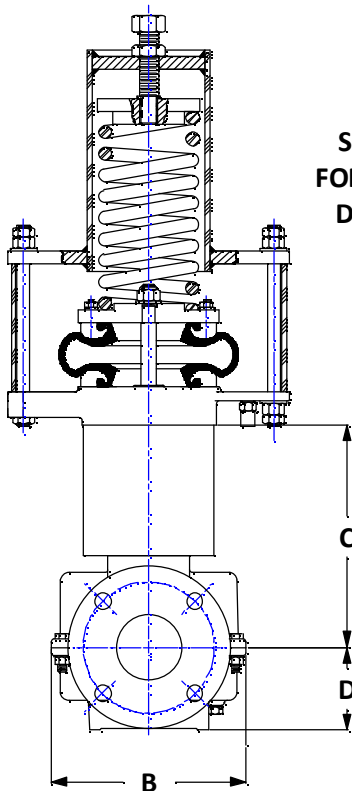
Series CAR

Full Round, Single Pinch, Enclosed Construction, Pneumatically Operated

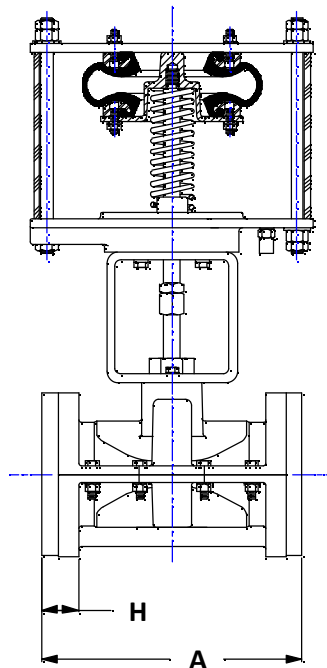
- Clog resistant full round opening.
- Low pressure drop
- No packing
- Drop tight closure
- On/Off or throttling service
- Fail Open or Fail Closed pneumatic actuators
- Long lasting compression molded sleeve

Applications: Ideal for automatic control of abrasive, viscous, and corrosive fluids including wastewater, mine slurry, chemicals, cement, pulp, powder and pellets.

Operation: A full round pneumatically operated valve with the maintenance free Onyx Actuator. The actuator uses a spring for reliable fail-open (PFO) or fail-closed (PFC) operation in a range of sizes. It does not require lubricated air.



SEE PAGE 12
FOR ACTUATOR
DIMENSIONS



Specifications:

- Flanges: ANSI STD. 125/150 lbs
- Housing: Cast iron, ASTM A48, Class 35
- Stem: 303 stainless steel
- Yoke: Carbon steel
- Actuator: Cast iron/PVC

Options:

- Epoxy paint
- Sleeve elastomer
- 316 stainless steel stem
- ANSI STD 300 lbs. Flange
- Secondary containment package
- Auxiliary hand wheel
- Positioners
- Solenoid valves
- Limit switches

All dimensions are in inches.

SIZE	1/2	3/4	1	1-1/2	2	2-1/2	3	4
A	4.25	5.50	5.50	6.50	7.00	7.50	12.00	13.87
B	3.75	3.87	4.75	5.25	6.25	9.25	9.00	13.50
C	4.93	5.06	9.34	9.62	10.00	14.00	14.25	15.56
D	1.93	2.00	2.18	2.56	3.06	3.56	3.81	4.62
H	0.69	0.75	0.84	0.97	1.12	1.25	1.69	1.68
P Max	200 psi					175 psi		
Wt, lb	10	12	15	21	27	35	47	110

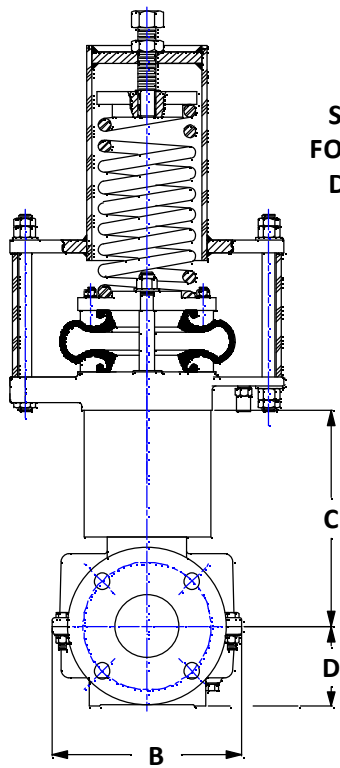
Series CAP

Pre-Pinched, Single Pinch, Enclosed Construction, Pneumatically Operated

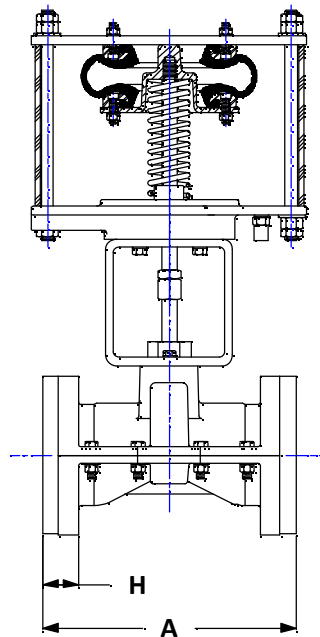
- Low pressure drop
- No packing
- Drop tight closure
- On/Off or throttling service
- Linear throttling characteristic
- Fail Open or Fail Closed pneumatic actuators
- Long lasting compression molded sleeve

Applications: Ideal for automatic control of abrasive, viscous, and corrosive fluids including wastewater, mine slurry, chemicals, cement, pulp, powder and pellets.

Operation: A pre-pinched pneumatically operated valve with the maintenance free Onyx Actuator. The actuator uses a spring for reliable fail-open (PFO) or fail-closed (PFC) operation in a range of sizes. It does not require lubricated air.



SEE PAGE 12
FOR ACTUATOR
DIMENSIONS



Specifications:

- Flanges: ANSI STD. 125/150 lbs
- Housing: Cast iron, ASTM A48, Class 35
- Stem: 303 stainless steel
- Yoke: Carbon steel
- Actuator: Cast iron/PVC

Options:

- Epoxy paint
- Sleeve elastomer
- 316 stainless steel stem
- ANSI STD 300 lbs. Flange
- Secondary containment package
- Auxiliary hand wheel
- Positioners
- Solenoid valves
- Limit switches

All dimensions are in inches.

SIZE	4	6	8	10	12	14	16	18	20	24
A	9.00	17.75	21.37	26.50	29.00	28.00	32.00	36.00	40.00	48.00
B	13.50	20.12	22.75	26.25	32.00	34.37	34.37	43.75	50.50	60.50
C	15.56	17.68	21.43	22.50	26.68	27.68	33.12	34.12	42.65	45.25
D	4.62	5.75	7.00	8.25	9.75	13.68	16.12	17.12	19.65	22.25
H	1.31	1.87	1.62	1.81	2.25	2.75	3.37	3.37	3.50	3.50
P Max	150 psi			100 psi						
Wt, lb	90	150	350	550	800	1,000	1,700	2,000	3,000	4,300

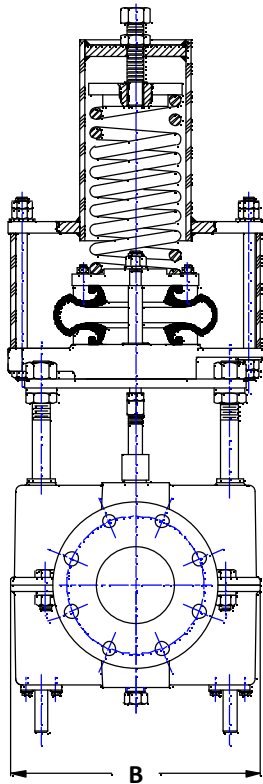
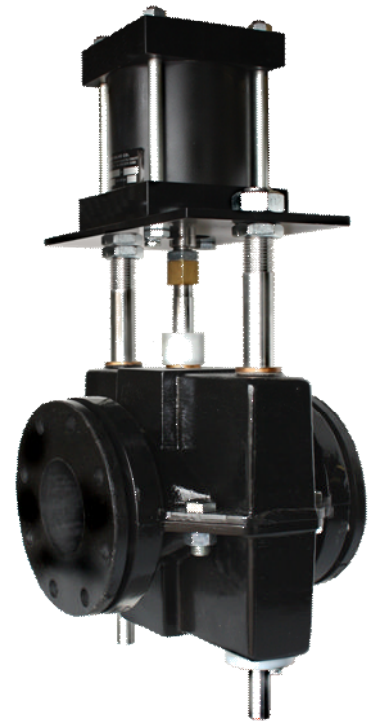
Series DAC

Full Round, Dual Pinch, Enclosed Construction, Pneumatically Operated

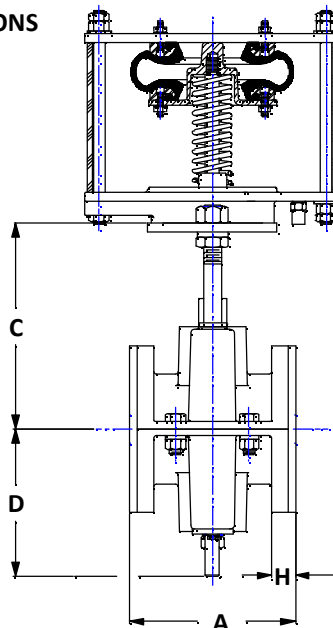
- Clog resistant full round opening.
- Low pressure drop
- No packing
- Drop tight closure
- On/Off or throttling service
- Fail Open or Fail Closed pneumatic actuators

Specifications:

- Flanges: ANSI STD 125/150 lbs
- Housing: Cast iron, ASTM A48, class 35 (valve sizes up to 10")
Ductile iron, ASTM 65-45-12 (valve sizes 12" and up)
- Stem & guide rods: 303 stainless steel
- Pinch bars: Ductile iron, ASTM 65-45-12



SEE PAGE 12
FOR ACTUATOR
DIMENSIONS



Options:

- Sleeve elastomer
- Epoxy paint
- ANSI STD 300 lbs flange
- 316 stainless steel stem
- Secondary containment package
- Positioners
- Solenoid valves
- Limit switches

All dimensions are in inches.

SIZE	2	3	4	6, SH.	6, LG.	8	10	12	14	16	18	20	24	30
A	7.00	8.00	9.00	10.50	17.75	21.37	26.50	29.00	28.00	32.00	36.00	40.00	48.00	60.00
B	8.50	11.00	13.50	20.12	22.75	26.25	32.00	34.37	40.50	43.75	50.50	60.50	78.00	
C	10.06	11.81	14.81	20.00	23.12	25.68	29.87	32.37	38.12	41.12	47.00	52.00	70.00	
D	5.25	6.56	8.00	11.62	14.62	16.68	20.12	22.18	26.50	28.50	32.15	35.00	40.00	
H	1.12	1.31	1.87	1.62	1.81	2.25	2.75	3.37	3.50	3.50	4.50			
P Max	200	175	150 psi	100 psi	75 psi									
Wt, lb	40	80	103	250	300	450	650	800	1,000	1,700	2,000	3,000	4,300	N/A

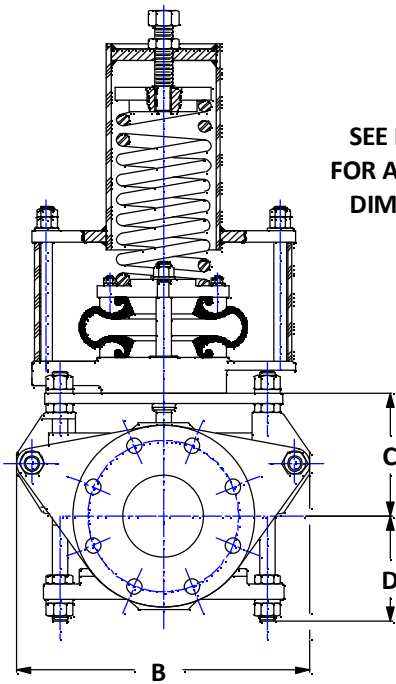
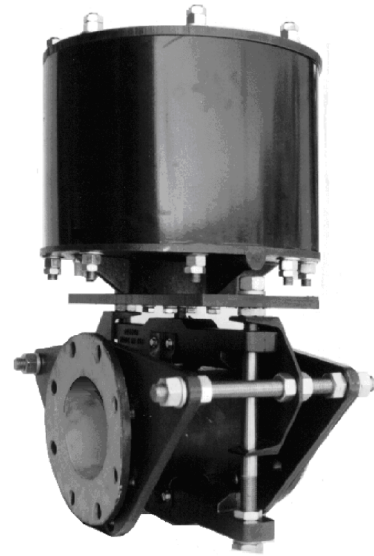
Series DAO

Full Round, Dual Pinch, Open Frame Construction, Pneumatically Operated

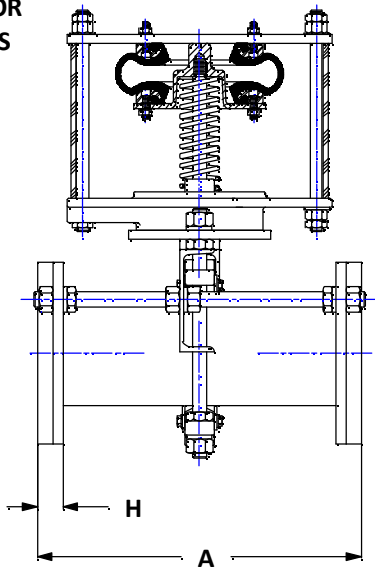
- Available in Full Round or Pre-Pinched construction.
- Light weight
- Low pressure drop
- Drop tight closure
- On/Off or throttling service
- Fail Open or Fail Closed pneumatic actuators

Specifications:

- Flanges: ANSI STD 125/150 lbs
- Stem & Guide rods: 303 stainless steel



SEE PAGE 12
FOR ACTUATOR
DIMENSIONS



Options:

- Epoxy paint
- Sleeve elastomer
- Valve length
- 316 stainless steel stem
- Positioners
- Solenoid valves
- Limit switches

Warning! Open frame valves have no provision for containing process fluid during a sleeve failure; fluid may erupt unexpectedly from the valve. Do not use an open frame valve for fluids that are hot, acidic, flammable or toxic. Otherwise, serious injury may result.

All dimensions are in inches.

SIZE	1	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	
A-S	4.00	4.75	5.25	5.75	6.00	8.00	10.00	10.50	16.00	20.00	24.00	28.00	32.00	36.00	40.00	
A-M	5.50	6.00	7.00	7.50	8.00	9.00	15.00	12.00	21.37	26.50	29.00	N/A				
A-L	6.00	6.50	8.00	10.00	12.00	12.00	18.00	18.00	24.00	30.00	36.00	42.00	45.00	54.00	60.00	
A-XL	N/A					16.00	20.00	24.00	32.00	40.00	48.00	N/A	48.00	N/A		
B	6.50	7.37	9.25	11.37	11.37	14.50	18.12	21.37	24.25	27.75	33.75	36.00	40.00	43.95	47.25	
C	4.94	5.19	5.04	6.12	6.12	8.31	12.48	11.00	15.39	17.46	21.75	23.38	31.25	26.56	30.87	
D	2.75	2.71	3.21	3.50	3.75	5.18	6.84	5.50	8.18	9.25	11.37	12.25	16.67	12.50	16.67	
H	.81	.53	.62	1.06	1.12	1.25	1.50	1.50	1.12	1.25	1.50	1.75	2.00	2.00	2.75	
P Max	150 psi				100 psi				75 psi				50 psi			
Wt, Lb.	15	16	30	35	47	75	100	130	180	300	420	540	980	1,100	1,200	

Series CER

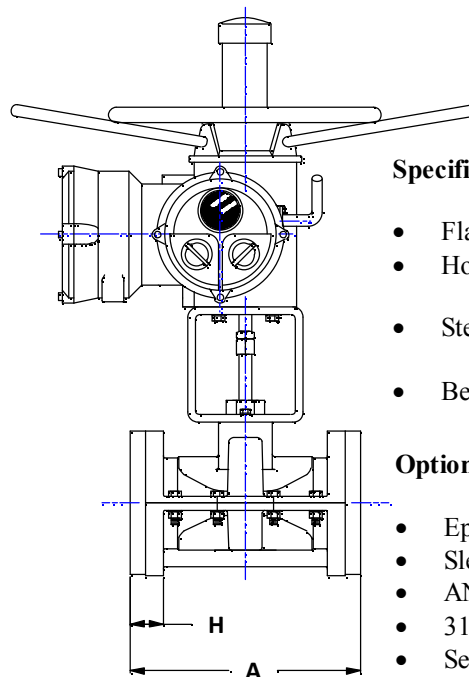
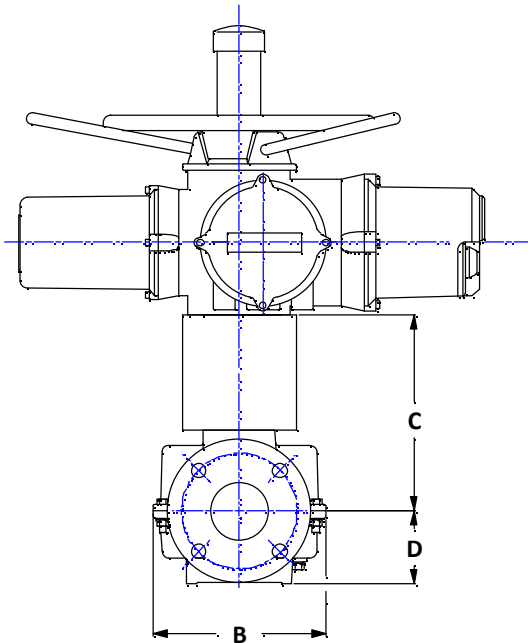
Full Round, Single Pinch, Enclosed Construction, Electric Actuator Operated

- Low pressure drop
- No packing
- Drop tight closure
- On/Off or throttling service
- Long lasting compression molded sleeve

Applications: Ideal for automatic control of abrasive, viscous, and corrosive fluids including wastewater, mine slurry, chemicals, cement, pulp, powder and pellets.

Operation: The CER is a full round, single pinch electric operated valves. An electric motor drives a single pinch bar from the top against the rubber sleeve to pinch off flow.

Construction: Actuators are available with single and 3-phase motors. All electric actuators are supplied with an auxiliary hand wheel. 3-phase actuators come with reversing contactors, power supply, limit and torque switches, push buttons, selector switches and pilot lights.



Specifications:

- Flanges: ANSI STD 125/150 lbs.
- Housing: Cast iron, ASTM A48, Class 35
- Stem & Pinch bar: 303 stainless steel
- Bearing: Bronze alloy

Options:

- Epoxy paint
- Sleeve elastomer
- ANSI STD 300lbs. Flange
- 316 stainless steel stem
- Secondary containment package
- Positioners
- Limit switches

All dimensions are in inches.

SIZE	1/2	3/4	1	1-1/2	2	2-1/2	3	4
A	4.25	5.50	5.50	6.50	7.00	7.50	12.00	13.87
B	3.75	3.87	4.75	5.25	6.25	9.25	9.00	13.50
C	4.93	5.06	7.34	7.62	7.00	10.00	10.25	12.56
D	1.93	2.00	2.18	2.56	3.06	3.56	3.81	4.62
H	0.69	0.75	0.84	0.97	1.12	1.25	1.69	1.68
P Max	200 psi					175 psi		
Wt, Lb	10	12	15	21	27	35	47	100

Series CEP

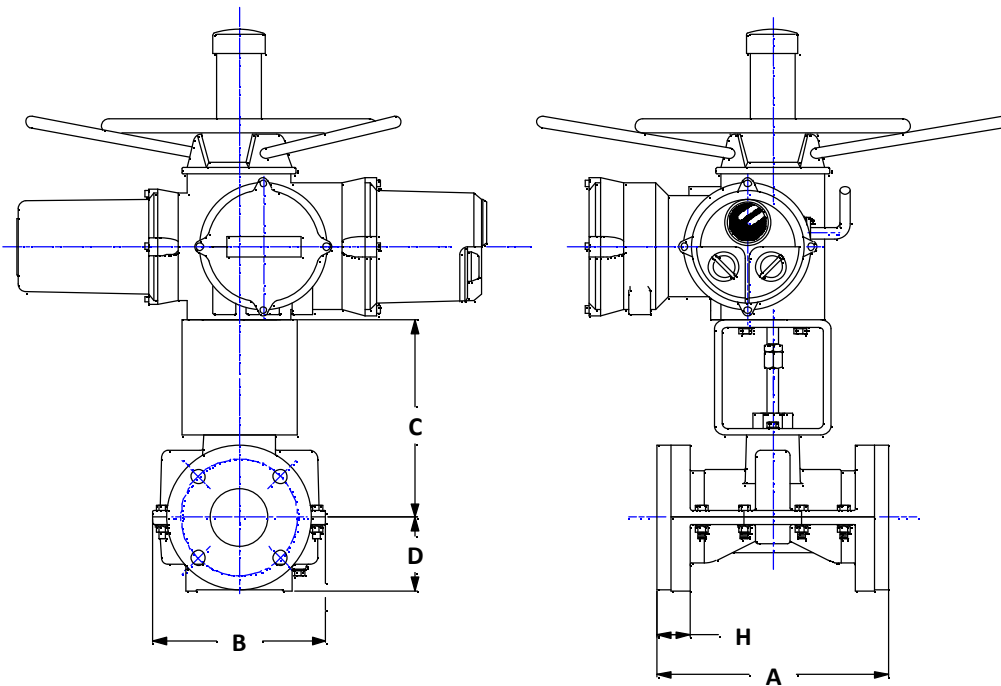
Pre-Pinched, Single Pinch, Enclosed Construction, Electric Actuator Operated

- Low pressure drop
- No packing
- Drop tight closure
- On/Off or throttling service
- Long lasting compression molded sleeve

Applications: Ideal for automatic control of abrasive, viscous, and corrosive fluids including wastewater, mine slurry, chemicals, cement, pulp, powder and pellets.

Operation: The CEP is a pre-pinched on centerline, single pinch electric operated valves. An electric motor drives a single pinch bar from the top against the rubber sleeve to pinch off flow.

Construction: Actuators are available with single and 3-phase motors. All electric actuators come with auxiliary hand wheel. 3-phase actuators come with reversing contactors, power supply, limit and torque switches, push buttons, selector switches and pilot lights.



Specifications:

- Flanges: ANSI STD 125/150 lbs.
- Housing: Cast iron, ASTM A48, Class 35
- Stem & Pinch bar: 303 stainless steel
- Bearing: Bronze alloy

Options:

- Epoxy paint
- Sleeve elastomer
- ANSI STD 300lbs. flange
- 316 stainless steel stem
- Secondary containment package
- Positioners
- Limit switches

All dimensions are in inches.

SIZE	4	6	8	10	12	14	16	18	20	24
A	9.00	17.75	21.37	26.50	29.00	28.00	32.00	36.00	40.00	48.00
B	13.5	20.12	22.75	26.25	32.00	34.37	40.50	43.75	50.50	60.50
C	10.56	12.68	17.43	20.50	22.68	23.68	28.12	29.12	37.65	42.25
D	4.62	5.75	7.00	8.25	9.75	13.68	16.12	17.12	19.65	22.25
H	1.31	1.87	1.61	1.81	2.25	2.75	3.37	3.37	3.50	3.50
P Max	150 psi				100 psi					
Wt, Lb	90	150	350	550	800	1,000	1,700	2,000	3,000	4,300

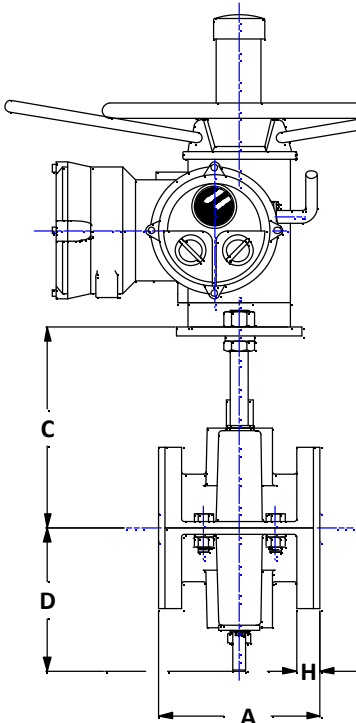
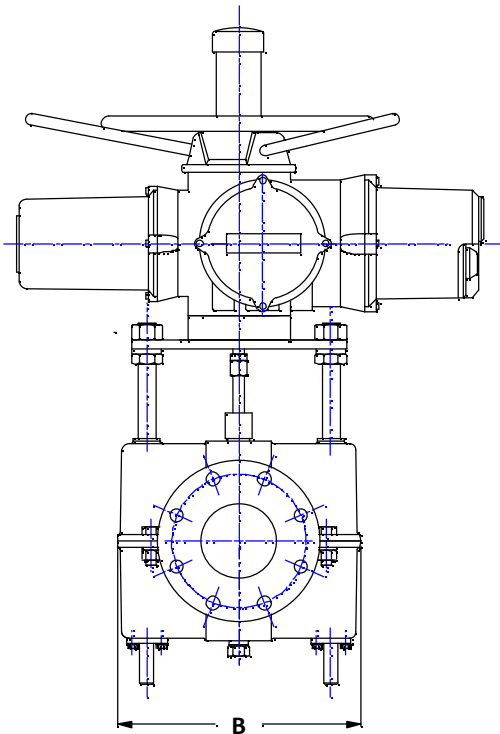
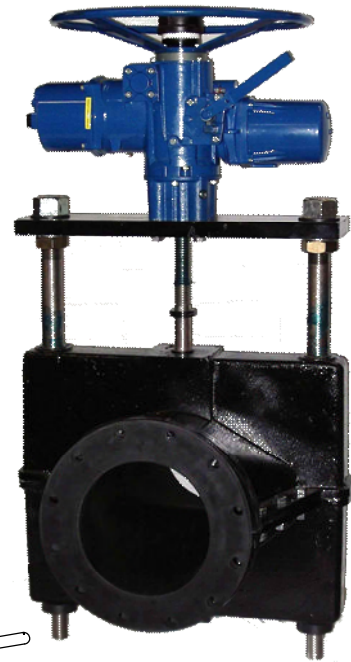
Series DEC

Full Round, Dual Pinch, Enclosed Construction, Electric Actuator Operated

- Clog resistant full round opening
- Low pressure drop
- No packing
- Drop tight closure
- High efficiency stainless steel ACME stem for easy operation
- Complete motorized actuator includes starters, power supply, limit switches, auxiliary Hand wheel, push buttons and selector switch
- Valves come fully assembled, calibrated and tested for plug & play operation.

Applications: Ideal for abrasive, viscous and corrosive fluids including wastewater, mine slurries, chemicals, cement, pulp stock, powder and pellets.

Operation: The DEC is a full round dual pinch valve. The electric motor rotates a bronze nut that drives a pair of pinch bars against the rubber sleeve pinching off flow at centerline.



Specifications:

- Flange: ANSI STD 125/150 lbs.
- Housing: Cast iron, ASTM A48, class 35 (valve sizes up to 10")
Ductile iron, ASTM 65-45-12 (valve sizes 12" and up)
- Stem & guide rods: 303 stainless steel
- Pinch bars: Ductile iron, ASTM 65-45-12

Options:

- Epoxy paint
- Sleeve elastomer
- ANSI STD 300 lbs flange
- 316 stainless steel
- Secondary containment package
- Positioners
- Limit switches

All dimensions are in inches.

SIZE	2	3	4	6, SH.	6, LG.	8	10	12	14	16	18	20	24	30
A	7.00	8.00	9.00	10.50	17.75	21.37	26.50	29.00	28.00	32.00	36.00	40.00	48.00	60.00
B	8.50	11.00	13.50	20.12		22.75	26.25	32.00	34.37	40.50	43.75	50.50	54.00	78.00
C	10.06	7.37	9.37	12.43	15.37	23.18	28.25	30.10	35.91	38.87	44.39	52.00	70.00	
D	5.25	6.56	8.00	11.62	14.62	16.68	20.12	22.18	26.50	28.50	32.15	35.00	40.00	
H	1.12	1.31		1.87	1.62	1.81	2.25	2.75	3.37	3.50	4.00	4.50		
P Max	200	175	150 psi				100 psi		75 psi					
Wt, lb	40	80	103	250	300	450	650	800	1,000	1,700	2,000	3,000	4,300	N/A

PNEUMATIC ACTUATORS

Pneumatic Fail Open and Fail Closed Actuators

- No Lubrication Required
- No piston Rings to Replace, Ever.
- No Wiper Rings
- Fail Safe Spring Return Operation
- Low Friction
- Zero Leakage
- Low Air Consumption
- On / Off or Modulating Service
- Rugged Cast Iron Base
- 303 Stainless Steel Stem
- PVC Cover Tube

These actuators provide outstanding performance in harsh environments. They are available in seven different sizes to match valve thrust and stroke requirements.

Construction: The heart of the Onyx actuator is a Firestone Air-Stroke® rubber suspension bag and spring. These air bags are typically used as suspension elements in trucks and buses, with a track record of years of dependable service under adverse conditions. Combining an air bag actuator with a spring provides simple, rugged, dependable actuation.

DURABLE FOR LONG LIFE

Airstroke actuators are a further application of Firestone's time proven Airide springs for truck and bus suspensions. Long life and durability proven in millions of miles of heavy-duty suspension use under adverse environmental conditions.

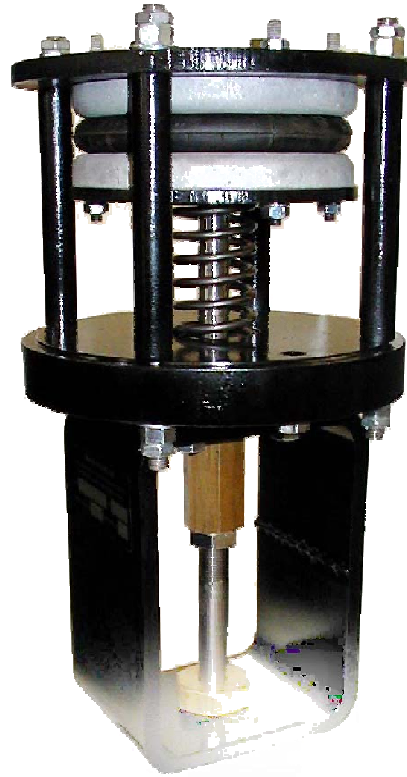
NO MAINTENANCE OR LUBRICATION REQUIRED

NO PISTON

Airstroke actuators have no piston or sliding seals. This allows for the design of Airstroke actuators into applications where dirt or grit would destroy the seals on conventional cylinders.

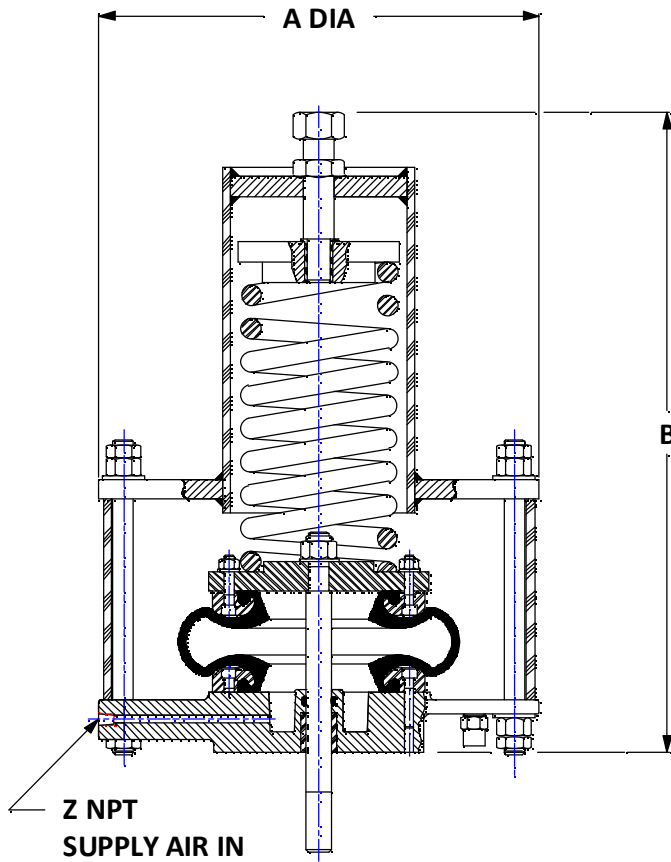
FRICTION FREE FOR IMMEDIATE RESPONSE

Since Airstroke actuators have no sliding seals, there is no breakaway friction as with conventional cylinders, making them ideally suited for operation with modulating positioners.

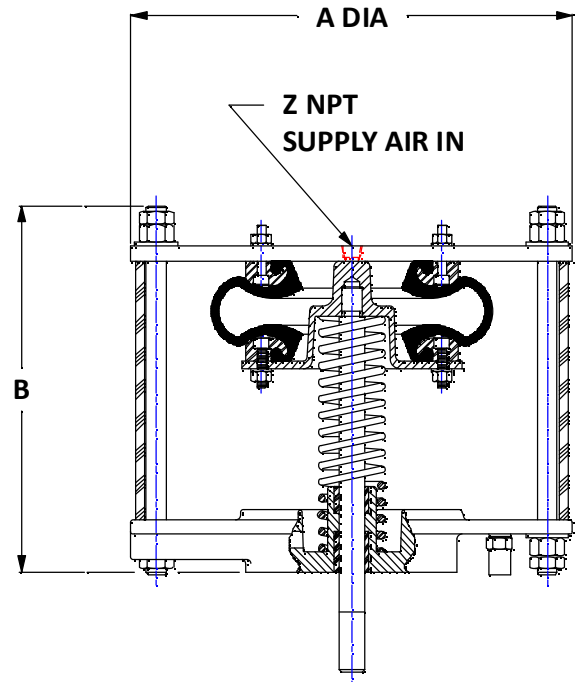


PFO & PFC ACTUATORS

ACTUATOR WEIGHTS AND DIMENSIONS
 (All dimensions are in inches and weights are in lbs.)



PFC ACTUATOR



PFO ACTUATOR

SIZE	8	12	21	30	36	40	70	80	120	200
A DIA	7.50	11.00	11.18	13.56	14.74	19.06	16.37	19.75	23.68	31.75
B (PFC)	10.37	22.12	27.37	34.62	37.12	62.37	50.12	52.62	59.50	N/A
B (PFO)	7.15	9.12	11.00	13.00	16.25		18.50	18.50	24.50	34.93
Z NPT	1/4				3/8		1/2			
WEIGHT (PFC)	25	45	70	156	226	300	355	385	450	N/A
WEIGHT (PFO)	20	40	46	75	119	130	140	145	200	880

VALVE SIZING COEFFICIENTS

		CAR				CAP		DAC				CAP		DAC		
valve	port	Cv		Valve	port	full	Pre-Pinch	Full	Round	valve	port	Cv	Pre-Pinch	Full	Round	
1/2	full	12		4	full	944	full	1133	Cv	14	full	8550	Cv	10260	12	5764
	0.37	9				460		552			6917					
	0.25	4				186		203			4021					
3/4	full	32				120		144			2204					
	0.50	14				51		61			1132					
	0.37	8														
1	full	42		5	full	1364	full	1637	Cv	16	full	11200	Cv	13440	14	7745
	0.75	31			714	857		9294								
	0.62	28			287	344		6005								
	0.50	18			163	196		3602								
	0.37	6			94	113		2053								
1.5	full	86		6	full	1843	full	2212	Cv	18	full	14300	Cv	17160	16	10344
	1.00	35			1180	1416		12413								
	0.75	18			567	680		8052								
	0.62	12			280	336		5400								
	2	full	170		152	182		3348								
		1.50	79		91	109		1958								
1.00		30														
2	0.75	17		8	full	3040	full	3648	Cv	20	full	17600	Cv	21120	18	13400
	0.50	8			1436	1723		16080								
	2.5	full	346		832	1000		10950								
		2.00	156		460	553		7200								
		1.50	70		233	280		4999								
1.00	29		143	172	3180											
0.75	18															
0.50	10															
2.5	full	346		10	full	4520	full	5424	Cv	24	full	26100	Cv	31320	20	15120
	2.00	156			2534	3040		18144								
	1.50	70			1149	1379		12996								
	1.00	29			800	960		9043								
	0.75	18			420	504		6200								
	3	full	576		208	250		4536								
		2.50	293													
2.00		148														
3	1.50	66		12	full	6400	full	7680	Cv	30	full	42500	Cv	51000	24	21250
	1.00	29			3936	4723		25500								
	3	full	148		2057	2468		14400								
		2.50	293		1003	1203		10680								
		2.00	148		402	482		7753								



ONYX VALVE

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Onyx Valve Co. manufactures high standard quality replacement sleeves for various applications and many other popular brands.

With competitive pricing and fast delivery, our replacement sleeves gives you the best option to fight abrasive, corrosive and volatile fluids and slurries.

Hand wheel operated pinch valves are available with bevel gears, ball screw jacks, and with stem extenders for buried service. It is also available in open frame and fully enclosed configurations.



Smart Box 3 is designed to ensure the progressing cavity pumps within operating limits and further protects the pumps from damages caused by following factors;

- ◆ High pressure over the design limits can stall or burn out the motor.
- ◆ Run dry conditions interrupt the flow of liquids that is needed to dissipate heat, melting the stator.
- ◆ Seal flush failure burns up the shaft seal causing the stuffing box to leak.

Smart Box 3 is not only easy to use, but versatile enough to combine with **Onyx Pressure Sensors** to process viscous fluids, suspended solids, abrasive,

Please contact us for more information: 856-829-2888 • onyxvalve.com