



ESTABLISHED 1991

STEALTH INTERNATIONAL INC.

The "Application Solution" Company®

MODEL STJ

High Performance Damper Valves



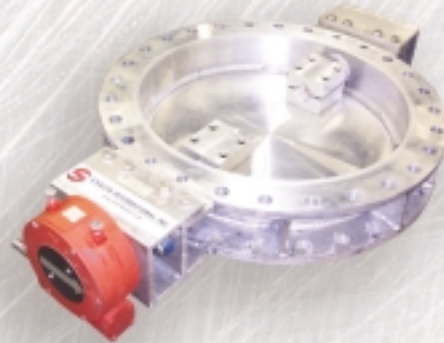
TITAN

Fiberglass-Resilient Seated



EXCALIBUR

Zero Leakage-High Cycle



HELIOS

RTFE Seat-Class VI



PATRIOT

316 Stainless Steel-Resilient Seated

Applications

- Severe Corrosion
- High/Low Temperatures
- -40 to 2500°F
- Blowers
- On-Off and Modulating
- Aeration
- High Cycle
- Slab Casters

Options

- Metal Seated
- Resilient Seated
- Ceramic Seated
- RTFE Seated
- Fiberglass
- Powder Coated
- Sleeve Lined

Bodies




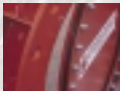
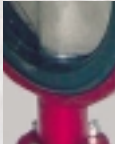



- Wafer
- Flanged On-Off Modulating
- Round
- Rectangular/Square
- Louvered

WORLD WIDE INSTALLATIONS

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Models	Applications	Options	(Application details at www.stealthvalve.com)
PATTON TITAN PATRIOT EXCALIBUR HELIOS	Light Duty Medium/Industrial Duty Heavy Duty Industrial Severe Severe	<ul style="list-style-type: none"> Available in sizes 2"-72" (50mm to 1830mm) Available in all end connections Through or off-set shaft designs Through shaft and stub shaft designs All designs are suitable for indoor/outdoor environments All models incorporate dual thrust bearing for mounting in any orientation in the pipe line High Capacity disc design for maximum SCFM 	

Models	Design Standard	Features	Ratings	Applications
PATTON 	Standard Design Single Bearing and Packing	Seat: Through seat or metal seat Packing: External dual/replaceable Bearing: External roller bearing Shaft: Through shaft, rugged shaft construction Disc: Abrasion treated disc optional	Temperature: -40° to 1250°F Pressure: Max ΔP 15 PSIG Optional 150 PSIG Rating: Class I	Air Abrasion Powder Flue Gas Modulating High Velocity
TITAN 	Standard Dual External Roller Bearings Standard Dual Packing	Seat: Metal seat, through or step Packing: Internal dual/replaceable Bearing: Internal roller bearing Shaft: Through shaft, rugged shaft construction Disc: Abrasion treated disc optional full hub disc design	Temperature: -40° to 2000°F Pressure: Max ΔP 15 PSIG Optional 150 PSIG Rating: Class I	Air Abrasion Powder Flue Gas Modulating High Velocity
PATRIOT  	Dual Internal Live Loaded Packing Dual Internal Dual Roller Bearings	Seat: Metal seat/Resilient seated /Ceramic seat in body Packing: External dual replaceable Bearing: External roller bearing Shaft: Rugged large diameter shaft for zero leakage Disc: Full hub or off-set eccentric	Temperature: -40° to 250°F EPDM -40° to 350°F Viton Pressure: Max ΔP 15 PSIG Rating: Class I – VI	High Velocity Blower Intake High Temperature Flue Gas Zero Leakage
EXCALIBUR  	Dual Internal Live Loaded Packing Dual Bearings High Cycle Full Seat Encapsulation	Seat: Resilient seated, body or disc or fully encapsulating Packing: Internal dual/replaceable. Patented packing, no adjustment required Bearing: Internal recessed roller bearings. Dual thrust bearings Disc: Full hub through shaft	Temperature: -40° to 250°F EPDM -40° to 350°F Viton Pressure: Max ΔP 15 PSIG Rating: Class I – VI	High Cycle Bubble Tight Air Modulating Blower Zero Leakage High Corrosion High Abrasion
HELIOS  	High Temperature Ceramic Seat Purge Ports in Journal Dual External Packing Dual External Bearing	Seat: Resilient seated, in body or on disc Packing: External dual/replaceable Adjustable packing Bearing: External recessed roller bearings. Dual thrust bearings Shaft: Through shaft, Thermal expansion shaft design. Purged port design Disc: Full hub through shaft design	Temperature: -40° to 2500°F -40° to 250°F EPDM -40° to 350°F Viton Pressure: Max ΔP 15 PSI Rating: Class I – III	High Temperature High Velocity High Abrasion High Cycle Zero Maintenance Slab Caster Corrosive

NOTE: Discs are hardened for specific or abrasive applications. On severe abrasion discs can be rubber lined.

FEATURES

- Flange drilling to suit ANSI/AWWA/B5/ODEE/DIN/JIS
- High capacity flow, ribbed construction
- ΔP, fully closed 15 PSIG, Optional 150 PSIG
- Thru shaft design and flow thru discs
- Shaft retaining collars
- Bi-directional shut-off
- Fixed Disc/Stem assembly
- Reinforced bodies and discs
- Internal/external removable bearings
- Corrosion proof shaft journal construction
- Dual thrust bearings for 360° pipe installation vertical or horizontal

BENEFITS

- Maintenance free packing and seals
- Low torque for competitive actuator sizing
- Actuator temperature isolation pads
- Heat sink extended necks
- Direct mount actuation ISO 5211 standards
- Face to face ISO 5752 (MSS-SP-67) or API standards
- Replaceable bearing without removing the valve from service
- Purged body journals option
- Full penetration welds



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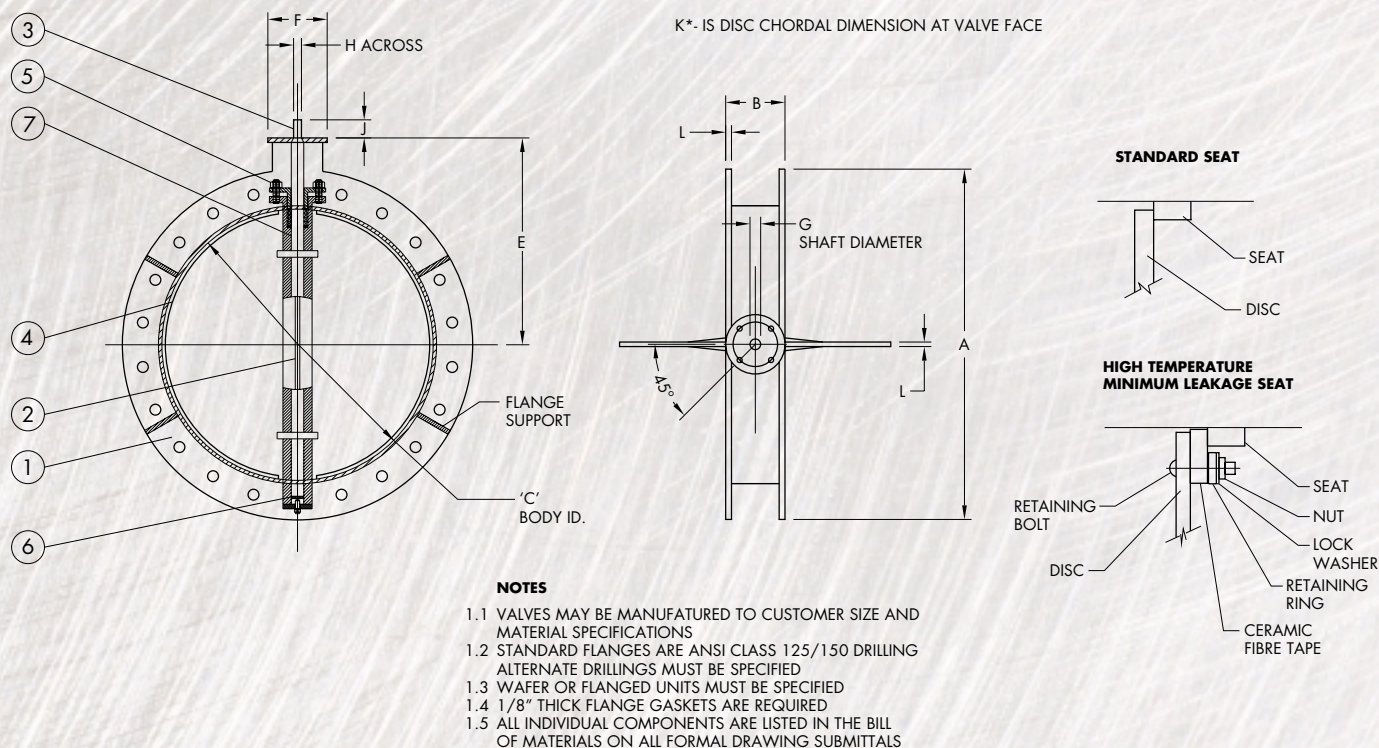
Typical Valve Dimensions: 2" - 60" (50mm - 1600mm) Standard Design

Valve Size		Stem Dia.												Top Plate Drilling		
Inches	mm		A	B	C	D	E	F	G	H	J	K*	L	BC	No.Holes	Hole Dia.
2	50	0.55	6.00	1.62	2.00	0.16	5.50	4.00	0.55	0.39	1.12	1.31	0.25	2.76	4	0.38
2.5	65	0.55	7.00	1.75	2.50	0.20	6.00	4.00	0.55	0.39	1.12	1.88	0.25	2.76	4	0.38
3	80	0.55	7.50	1.75	3.00	0.22	6.25	4.00	0.55	0.39	1.12	2.50	0.25	2.76	4	0.38
4	100	0.55	9.00	2.00	4.00	0.23	7.00	4.00	0.55	0.39	1.12	3.56	0.25	2.76	4	0.38
5	125	0.55	10.00	2.12	5.00	0.25	7.50	4.00	0.55	0.39	1.12	4.62	0.25	2.76	4	0.38
6	150	0.75	11.00	2.12	6.00	0.25	8.00	4.00	0.55	0.39	1.12	5.44	0.25	2.76	4	0.38
8	200	0.75	13.50	2.50	8.00	0.25	9.50	4.00	0.75	0.51	1.12	7.44	0.25	2.76	4	0.38
10	250	0.75	16.00	2.50	10.00	0.25	10.75	6.00	0.75	0.51	1.12	9.50	0.25	2.76	4	0.38
12	300	0.75	19.00	3.00	12.00	0.25	12.25	6.00	0.75	0.51	1.12	11.44	0.25	4.92	4	0.56
14	350	0.75	21.00	3.00	14.00	0.25	13.38	6.00	0.75	0.51	1.25	13.00	0.25	4.92	4	0.56
16	400	0.75	23.50	4.00	16.00	0.25	14.25	6.00	1.00	0.51	1.25	15.50	0.38	4.92	4	0.56
18	450	0.75	25.00	4.25	18.00	0.25	15.00	6.00	1.00	0.51	1.25	17.50	0.38	4.92	4	0.56
20	500	0.75	27.50	4.88	20.00	0.25	16.25	6.00	1.00	0.51	1.25	19.44	0.38	4.92	4	0.56
24	600	0.75	32.00	5.94	24.00	0.38	20.12	6.00	1.00	0.51	1.25	23.38	0.50	4.92	4	0.56
30	750	1.18	38.75	6.56	30.00	0.38	22.88	6.56	1.50	0.87	2.00	29.25	0.50	4.92	4	0.56
36	900	1.18	46.00	7.88	36.00	0.50	26.50	7.88	1.50	0.87	2.00	35.06	0.62	4.92	4	0.56
42	1000	1.18	53.00	9.88	42.00	0.50	30.25	9.88	1.50	0.87	2.00	40.75	0.62	6.00	4	0.75
48	1200	1.18	59.50	10.88	48.00	0.62	35.75	10.88	2.00	0.87	2.00	46.75	0.75	6.00	4	0.75
54	1400	1.18	66.25	12.00	54.00	0.62	40.25	12.00	2.00	0.87	2.00	52.75	0.75	6.00	4	0.75
60	1600	1.18	73.00	12.00	60.00	0.75	44.50	12.00	2.00	0.87	2.00	58.75	1.00	6.00	4	0.75
72	1830	1.18	86.50	12.00	72.00	0.75	50.50	12.00	2.75	1.18	2.50	69.75	1.00	6.00	4	0.75

NOTE: Valve mounting plate and shaft end can be modified to accommodate any style actuator drive for direct mounting to the valve.

*K = the chordal dimension at the valve face.

Drawing 'A'

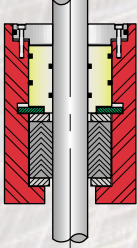




Typical Valve Weights: 2"-60" (50mm - 1600mm)

Inches	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24	30	36	42	48	54	60	72
lbs.	3.5	4.0	4.2	6.8	9.0	11.0	16.0	27.5	43.5	68.0	109.0	118.0	148.0	271.0	390.0	621.0	882.0	1342.0	1715.0	2715.0	3529.5
mm.	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750	900	1000	1200	1400	1600	1830
kg.	1.6	0.1	1.9	3.1	4.1	5.0	7.3	12.5	19.7	30.8	49.4	53.5	67.1	122.9	176.9	281.7	400.1	608.7	777.9	1231.5	1601.0

NOTE: Weights will vary based on configuration and flange mating requirements.

Above weights based on flanged design and double drilling to ANSI 125/150 B16.5.

Component	Feature	Benefit
Unique Packing Retaining Feature (Patented) Description: Allows replacing of O-Ring seals without the removal of the valve from the pipe or removing the valve from service. 	<ul style="list-style-type: none"> Chevron packing is live loaded 2 Dynamic O-Ring seals 2 Static O-Ring seals Bolt down non-metallic bushing Live loaded 	<ul style="list-style-type: none"> Safety feature - No adjustment required High cycle sealing system Positive rotary journal seal Tamper proof and recessed in upper valve trunion
Internal Dual Roller Bearing Feature 	<ul style="list-style-type: none"> Recessed roller bearing Housed in Delrin Shaft is not in contact with body journal 	<ul style="list-style-type: none"> No maintenance required Permanently lubricated Non-corrosive non-seizing design Shaft will not seize to journal due to condensation or galvanic corrosion
External Roller Bearing Feature 	<ul style="list-style-type: none"> Large roller bearing Removable plates Mounted externally Accessible 	<ul style="list-style-type: none"> High load and high cycle Allows for bearing replacement without removing the shaft or removing the valve from service No shaft seizure within body housing Ease of lubrication if required

DESIGN STANDARDS

Size Range: 2" – 72" (50mm to 1830mm)
ASME Section VIII

Pressure Range: 15 PSIG ΔP (103kPa) in the fully closed position (Bi-directional)
150 PSIG ΔP (1034kPa) optional in the fully closed position. Full vacuum

Temperature Range: -40°F (-40°C) to 2500°F (1371°C)

Leakage Rates: FCI ANSI CLASS I - VI
Optional - Zero leakage

Inspection: ANSI FCI 70-2-1991
Velocity Limits: 300 FT/SEC.

Pressure/Temperature Ratings

Models	Configuration			Minimum	Maximum	Class	Body
Patton	Disc Seat	Metal Metal	Single Bearing Single Packing	-50°F (-46°C)	1250°F (677°C)	I-III	Flanged Wafer Flanged
Titan	Disc Seat	Metal Metal	Dual Bearing Dual Packing	-50°F (-46°C)	1250°F (677°C)	I-III	Flanged Wafer Flanged
Patriot	Disc Seat	Metal EPDM/Elastomers	Dual Bearing Dual Packing	-40°F (-40°C)	250°F (121°C)	I-VI	Flanged Wafer Flanged
Excalibur	Disc Seat	Metal Elastomers/BUNA-N/EPDM /Viton	Dual Bearing Dual Packing	0°F (-18°C)	212°F (100°C) 350°F (204°C)	I-VI	Flanged Wafer Flanged
Helios	Disc Seat	Metal Fiberglass/Ceramic/Inconel	Dual Bearing Dual Packing	-40°F (-40°C)	1250°F (677°C) 2000°F-Special	I-IV	Flanged Wafer Flanged

Pressure Rating

All valves are suitable for 15 PSIG bi-directional shut-off in the fully closed position.

Optional higher pressures are available – Maximum 150 PSIG

Typical Materials of Construction






No	Component	Standard	Options
1	Body	Carbon Steel A-36	316 S.S./317L S.S./Aluminum/Titanium/Ceramic/Inconel/Hastalloy
2	Disc	Carbon Steel A-36	316 S.S./317L S.S./Aluminum/Titanium/Ceramic/Inconel/Hastalloy
3	Shaft	A 351, 316 S.S.	17-4 PH/Hastalloy/Ceramic/Shaft Locking Device
4	Seat	ASTM A-36 Carbon Steel	EPDM/Viton/Ceramic/BUNA-N/316 S.S./317L S.S./Aluminum/Titanium
5	Packing-Adjustable	Grafoil - Single - Dual	Grafoil-Dual/V-Cup Chevron
6	Bushing	Delrin/Dual	Acetal/Duralon/Dual
7	Internal Bearings	Mini Roller/Dual	316 S.S./Dual Roller/Lubricated
OP	External Roller	Removable/Dual	C.I. Permanent Lubricated/High Temperature Roller/Dual
OP	Collars/Shaft	Bronze/Teflon/SS	Dual Thrust Bearing/Dual Thrust Collars

Typical Cv Values - Valve Sizing Co-efficient:

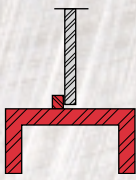
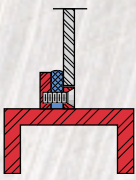
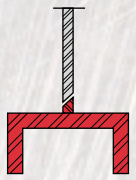
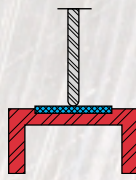
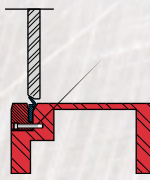
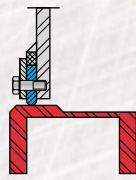
Valve Size		Disc Position (degrees)								
Inches	mm	90°	80°	70°	60°	50°	40°	30°	20°	10°
2	50	144	114	84	61	43	27	16	6.82	0.78
2.5	65	282	223	163	107	67	43	24	11	1.22
3	80	461	364	267	154	96	61	35	15	1.76
4	100	841	701	496	274	171	109	62	27	3.13
5	125	1376	1146	775	428	268	170	98	43	5
6	150	1850	1542	1025	567	354	225	129	56	6
8	200	3316	2842	1862	1081	680	421	241	102	12
10	250	5430	4525	2948	1710	1076	667	382	162	19
12	300	8077	6731	4393	2563	1594	1005	555	235	27
14	350	10538	8874	5939	3384	2149	1320	756	299	34
16	400	13966	11761	7867	4483	2847	1749	1001	397	45
18	450	17214	14496	10065	5736	3643	2237	1281	507	58
20	500	22339	18812	12535	7144	4536	2786	1595	632	72
24	600	32693	27718	17981	10421	6618	4064	2327	922	211
30	750	52905	44855	28458	16494	10474	6432	3684	1459	334
36	900	77785	65949	41331	23954	15211	9342	5350	2119	485
42	1000	102861	84574	54680	32803	20830	12793	7326	2901	665
48	1200	132794	108786	70485	43039	27331	16785	9612	4037	872
54	1400	168742	138235	89523	54664	34713	21319	12208	5127	1108
60	1600	204477	172379	110833	67677	42976	26394	15114	6348	1372
72	1830	265820	224093	144083	87980	55869	34312	19648	8252	1784

Cv's will increase or decrease based on disc and shaft configuration and design

Body Styles

Flanged (F)	Wafer Body (W)	Flanged by Plain End (FP)	Weld Ends (WE)	Wafer Flanged (WF)
				

Seat Styles and Pressure Classes

Class I	Class I-IV	Class I	Class I-VI	Class I-VI	Class I-V
Center Shaft on Body	Center Shaft on Body	Center Shaft on Body	Center Shaft on Body	Offset RTFE Seat	Seat on Disc
					
Metal or Through Seat	Ceramic EPDM, BUNA, VITON	Metal Seated	Full Seat Recessed EPDM, BUNA, VITON	Center Shaft Off-set Eccentric RTFE	Center Shaft Off-set Eccentric Seat on Disc EPDM, BUNA, VITON

Material/Temperature Selection

Material	Temperature			
	Intermittent Service		Continuous Service	
	°F	°C	°F	°C
410SS	1500	815	1300	705
430SS	1600	870	1500	815
304\304L\304H	1700	925	1600	870
321\321H	1700	925	1600	870
316\316L	1700	925	1600	870
309S\309H	2000	1095	1800	980
310S\310H	2100	1150	1900	1035
330SS	2100	1150	1900	1035
448SS	2150	1175	2000	1095
310SS	2200	1204	2050	1121
A-36CS	650	343	580	304

NOTE: This is a specialized product and manufactured for each specific application.

All Valves are manufactured in Canada or USA as required for final destination or inspection requirements prior to delivery.

SUGGESTED SPECIFICATION

Body: All bodies shall be of fabricated steel flanged construction to suit the pressure, temperature and media application, machine-faced to 125 RMS ANSI B16.5. All bodies and discs shall be sufficiently ribbed to prevent body deflection. Body journals shall be designed to incorporate sufficient clearance and shall not incorporate internal shaft bearings or bushings, (when noted). Upper and lower body journals shall be drilled, tapped and plugged to accommodate purge lines when required. All bodies shall be stress relieved after fabrication. All welds to be full penetration. All valves shall be rated for 15 PSIG in the fully closed position or as required.

Disc: Discs shall be fabricated steel, split-shaft or through shaft removable construction and ribbed for maximum flow and minimal deflection. All discs shall be connected by means of solid taper pins securely fastened with retaining nuts or back welds. All discs shall be stress relieved after fabrication. Disc will accommodate through shaft construction on high velocity applications.

Seat: All seats shall be located on the body and mechanically retained with removable retaining rings. The seat will be stepped to maximize the sealing surface and incorporate specified material. The seat material will be designed to withstand continuous service conditions and shall be field replaceable.

Shaft: All shafts shall be split or thru-design. Minimum 316 stainless steel or to meet the application and machined to accommodate direct mount actuation. Shaft diameters shall be to AWWA C-504 CL-75B when specified by size. All shafts shall incorporate bi-directional thrust bearing and location locking collars. All shafts shall be supported by dual external roller bearings as required. All valves shall incorporate dual thrust bearings for 360° pipe orientation in vertical or horizontal pipe.

Packing: Valves shall incorporate live loaded self-adjusting packing that is field replaceable without removal or disassembly of the valve from the piping for the application. Packing shall consist of minimum 3 rings of 0.25" Grafoil in each journal. Dual Packing will be used as required with external bearings.

External Roller Bearings: All valve bodies shall incorporate upper and lower roller bearings to support the shaft and disc assembly. All bearings shall be permanently lubricated and field replaceable without the removal of the valve from the piping. Bearings shall be suitable for indoor and outdoor environments up to -40°F to 2500°F or as required. All actuators shall direct mount to the valve shaft and mounting plate to ISO 5211 standards. All valves shall be capable of mounting in any orientation in the pipe including the inverted position. Pneumatic Actuators shall be capable of mounting fail open or fail close in the field without changing actuator orientation when required.

*Available at www.stealthvalve.com under Suggested Specifications

STJ ORDERING CHART

Model STJ-A	Size		Style		Material of Construction				Packing 4	Bearing 6	Actuator 3			
	1	2	W	Body	Disc	Shaft	Seat							
				1	1	1	1							
	Size	Code	Style	Code	Material			Code	Packing	Code	Bearing	Code	Actuator	Code
A-Patton	2"	02	Wafer	W	Body:	Carbon Steel		1	Single Teflon®	1	Delrin	1	Lever	1
B-Titan	2.5"	25	Flanged	F		316SS		2	Single Grafoil	2	Acetal	2	Gear	2
C-Patriot	3"	03	Wafer	WF		Titanium		3	Dual Teflon®	3	Duralon	3	Pneumatic DA	3
D-Excalibur	4"	04	Flanged			Aluminum		4	Dual Grafoil	4	Internal	4	Pneumatic SR	4
E-Helios	5"	05	Weld Ends	WE		Special		5	Single Adjustable	6	External Roller	6	Electric (on/off)	5
F-Special	6"	06	Flanged by plain end	FP	Disc:	Carbon Steel		1	Dual Adjustable	7	Internal Dual	7	Electric	6
	8"	08				316SS		2	Special	5	Roller Special	5	(modulating)	
	10"	10				Titanium		3				Hydraulic DA	7	
	12"	12				Aluminum		4				Hydraulic SR	8	
	14"	14				Special		5				Plain stem	9	
	16"	16			Shaft:							Special	5	
	18"	18				316SS		1						
	20"	20				17-4PH		2						
	24"	24				Titanium		3						
	30"	30				Hastalloy		4						
	36"	36				Special		5						
	42"	42			Seat:	Metal - Carbon		1						
	48"	48				Metal - 316SS		2						
	54"	54				Titanium		3						
	60"	60				Aluminum		4						
	72"	72				EPDM		6						
						Viton		7						
		TFE		8										
		Ceramic		9										
		Special		5										

Above example part number indicates: a 12" wafer style damper with a carbon steel body, carbon steel disc, 316SS shaft, metal seat (carbon steel) with dual Grafoil packing, dual external roller bearings and a double acting pneumatic actuator. Larger sizes available upon request.



THE "APPLICATION SOLUTION" COMPANY®

Damper Valves – Objective Comparison and Analysis

Item	Category	Stealth	Typical Industry Standards
1	Number of Body Configurations	Four	One
2	Number of Seat Designs	Five	Two
3	Size Range	3 to 72 inch	3 to 60 inch
4	Number of Patents for Dampers	One	None
5	Double Flanged	Yes	Yes
6	Shaft Diameters	AWWA C504 CL 75 B	No
7	Shaft Design	stub/thru	Thru
8	Bubble Tight Capabilities	Yes/45 degrees	No
9	Ribbed Body Construction	Yes	No
10	High Capacity Disc Design	Yes	No
11	Tangential Disk Pin Construction	Yes	No
12	Dual Thrust Bearing Construction	Yes	No
13	Non Adjustable Shaft Seals	Yes	No
14	Shaft Journal Corrosion Protected	Yes	No
15	Elimination of Packing Adjustment	Yes	No
16	Recessed Seat Supported on Three Sides	Yes	No
17	Fused Epoxy Coating Body and Disc	Yes	No
18	Ribbed Disc Construction	Multiple	Single
19	Standard ISO Face to Face Dimension	Yes	No
20	Integral Pressure Gauge in Solenoid	Yes	No
21	Flange Face Machining	Yes	No
22	ISO 5211 Actuator Mounting (Direct)	Yes	No



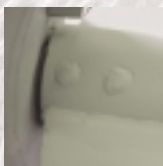
Dual external removable roller bearing and packing



Ribbed disc and body designs



Offset disc recessed seat design



Tangential disc pin construction



AWWA shaft diameters



Solenoid with integral gauge



Dual thrust bearing design and shaft locking device

Risk Factors

Item	Category	Risk/Issues
1	Number of Body Configurations	Design and application capabilities
2	Number of Seat Designs	Sealing Requirements
3	Size Range	Capacity Cv's
4	Number of Patents for Dampers	Design Advantages
5	Double Flanged	Number of holes to prevent flange connection leakage
6	Shaft Diameters	Undersized shafts and unseated discs, caused by high actuator speed and disc momentum
7	Shaft Design	Stub design for low head loss
8	Bubble Tight Capabilities	Design capabilities for application design requirements on zero leakage
9	Ribbed Body Construction	Prevents body deflection for the sealing surface seat to disc
10	High Capacity Disc Design	Low head loss and high flow capacity
11	Tangential Disc Pin Construction	Thru pin connection is shear and weakens shaft torsional capabilities
12	Dual Thrust Bearing Construction	Weight of disc and shaft assembly must be supported for all orientations
13	Non Adjustable Shaft Seals	Eliminates the necessity of maintenance and eliminates external leakage
14	Shaft Journal Corrosion Protected	Necessary to prevent body journal corroding around the shaft
15	Elimination of Packing Adjustment	Routine maintenance is not required
16	Recessed Seat Supported on Three Sides	Proven design for over 40 years. Seat retention methods should be evaluated
17	Fused Epoxy Coating Body and Disc	Corrosion capabilities internally and externally
18	Ribbed Disc Construction	Required to prevent disc deflection under seating or dynamic load
19	Standard ISO Face to Face Dimension	Necessary to prevent dependence on one design or one manufacture
20	Integral Pressure Gauge in Solenoid	Confirms actuator pressure and output torque confirmation
21	Flange Face Machining	Flanges not parallel will cause leakage at the mating flange, bolt spacing
22	ISO 5211 Actuator Mounting (Direct)	Eliminates dependency of single source actuator suppliers

STJ STEALTH DAMPER VALVE SPECIFICATION REQUIREMENTS

THE FOLLOWING SPECIFICATIONS ARE REQUIRED FOR EACH VALVE OR PLEASE CONFIRM IF THE VALVE IS TO BE MANUFACTURED TO THE STEALTH STANDARD DIMENSIONS.

Customer:	SO#:	Date:
Contact:	Dist/Cust PO:	
Phone:	Fax:	Ref:
Manufacture to Stealth drawing:	Drawing #:	
Manufacture to specified drawing:	Drawing #:	Attached Drawing #

MEDIA SPECIFICATIONS

Max. Allowable Leakage (Based on FCI ANSI B16.104)	Class I Class IV	Class II Class V	Class III Class VI
Media	Maximum Velocity	Maximum Pressure	Maximum Temperature
Operating Velocity	Operating Pressure	Operating Temperature	Seat Type Required

VALVE SPECIFICATIONS

Valve Dimension Specifications	Size	Quantity	End Connections	Minimum Pipe ID.
	Valve ID.	Valve Flanged O.D.	Valve Bolt Circle Diameter	Number of Flange Holes
	Flange Hole Diameter	Extended Neck	Laying Length	Model
Valve Material Specifications	Flanges	Body Disc	Shaft	Dual Shaft Packing
	Seat Type	Internal Bearing	External Bearing	Single Shaft Packing

ACTUATOR MOUNTING DETAIL

Valve Trunnion Specifications	Trunnion Flange O.D.	Bolt Circle Diameter	Hole Diameter	Number of Holes
	Shaft Height	Shaft O.D.	Keyway	Parallel Flat
	Match Shaft to Actuator Type/Size	Model Number	In Line with Pipe	Adjacent to Pipe

AUTOMATION

Actuator Specification	Manufacture	Double Acting	Fail Open	Fail Close
	Minimum Supply Pressure	Lever	Gear	Electric Voltage
	Nema Rating	On-Off	Special Coating	Hardware
	Fitting Material	Modulating	Manual Override	Duty
Solenoid Specification	3-Way 4-Way	Nema	Voltage	Manual Override
Limit Switch Specification	Type	Nema Rating	Voltage	Indicator
Positioner Specification	Type	Signal In	Signal Out	Gauges
	Indicator	Reverse	Direct	Piping Material
				Switches
Coating Specification	Valve External		Valve Internal	External Feedback
	Actuator			
Tagging Instructions	Material			

- Speed Controls are mandatory for all automated pneumatic valves.
- Gaskets must be a minimum of 1/8" thick and are required for all valves.
- All valves are unique to their application and therefore are subject to non-refundable 100% cancellation charge once drawings are released.
- Serrated flange faces must be specified for all flanged valves. Standard on stainless steel per ANSI B46.1. I-1978 military standard 45662.
- Delivery times commence upon receipt of approved drawings.

Authorized Customer/Distributor Signature	Date
Authorized Signature (Print)	Changes as Indicated
Stealth Acknowledged	No Changes
	Date
	Print

sales@stealthvalve.com



www.stealthvalve.com

• 24 HOUR EMERGENCY VALVE RESPONSE • 416 945 1258 •

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2520c St. Laurent Boulevard, Suite 102, Ottawa ON K1H 1B1 – TEL 613 739 4626 • FAX 613 739 1679
BRITISH COLUMBIA – TEL 604 632 4657 • FAX 604 632 4658

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