SARGENT®

V-10
HIGH SECURITY CYLINDER

An ASSA ABLOY Group company

ASSA ABLOY

SARGENT
1-800-727-5477
www.sargentlock.com

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SARGENT ASSA V-10 High Security Cylinder

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The newest addition to the SARGENT® product offering, the ASSA V-10 offers a vast number of keyways to the end-user on a geographically exlusive basis. New patents assure each user of protection against unauthorized key duplication and when combined with the physical security of a UL listing, the result is uncompromising control. The SARGENT ASSA V-10 has master keying capabilities up to 160,000 changes.

The SARGENT ASSA V-10 cylinder is a high security option for all SARGENT locks and retrofits most other manufacturers' locks. Two independent locking mechanisms are simultaneously operated by a specially shaped key. The SARGENT ASSA V-10 incorporates a combinated sidebar and keyblank.

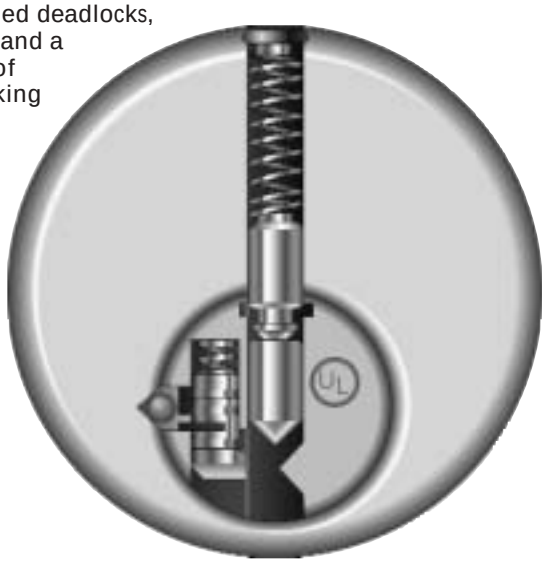
The V-10 configuration is comprised of a new specialized sidebar milling providing extensive master keying and sidebar combinations.

Mortise and Rim Cylinders

SARGENT ASSA V-10 mortise and rim cylinders are designed to be compatible with all SARGENT exit devices and mortise locks. Available in a variety of finishes, these reliable cylinders withstand the heaviest of use.

V-10 mortise cylinders will improve the security of locks installed in aluminum storefront doors, rolling grilles, shutters, overhead doors and a wide variety of special locking devices. These mortise cylinders can also be applied in standard mortise locks manufactured by Arrow, Best, Corbin/Russwin, Schlage, Yale and other lock manufacturers.

V-10 rim cylinders can be used for surface applied deadlocks, exit devices, and a wide range of auxiliary locking products.



Key-in-Knob and Key-in-Lever Cylinders

Greatly improving key control, the V-10 cylindrical cylinders can replace the original cylinder without replacing the entire lock. Thus, the quality SARGENT ASSA V-10 locking product used in new construction becomes compatible with the retrofitted existing product, recapturing total key control for the entire facility. SARGENT ASSA V-10 cylinders are manufactured to exact original manufacturers' specifications to assure precise fit and operation.

SARGENT ASSA V-10 High Security Cylinder Certification & Patents, Features

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Features

Materials

Cylinder housing and inner plug and manufactured from high quality brass. Pins are stainless steel or nickel silver.

Tolerances

Precision machining ensures smooth, positive operation and extended cylinder life.

Drill Resistance

In addition to stainless steel side and tumbler pins, case-hardened drill inserts are embedded in the cylinder plug and housing.

Pick Resistance

Two independent shear lines help assure optimum pick resistance. “False” grooves in the side pins catch the sidebar when improperly positioned. When rotational force is applied, the spool drivers are caught by countermilling in the plug.

Keys

The keys are manufactured from quality nickel silver with a rounded back that facilitates smoother operation and minimizes wear. The large key bow simplifies identification and simplifies use by physically challenged individuals. Guaranteed for the life of the cylinders against breakage under normal operating conditions.

Cylinder Form

SARGENT ASSA V-10

Cylinders are available in four different forms.

VA (Complete Standard)

A fully assembled cylinder including two cut keys.

VC (Complete Interchangeable Core)

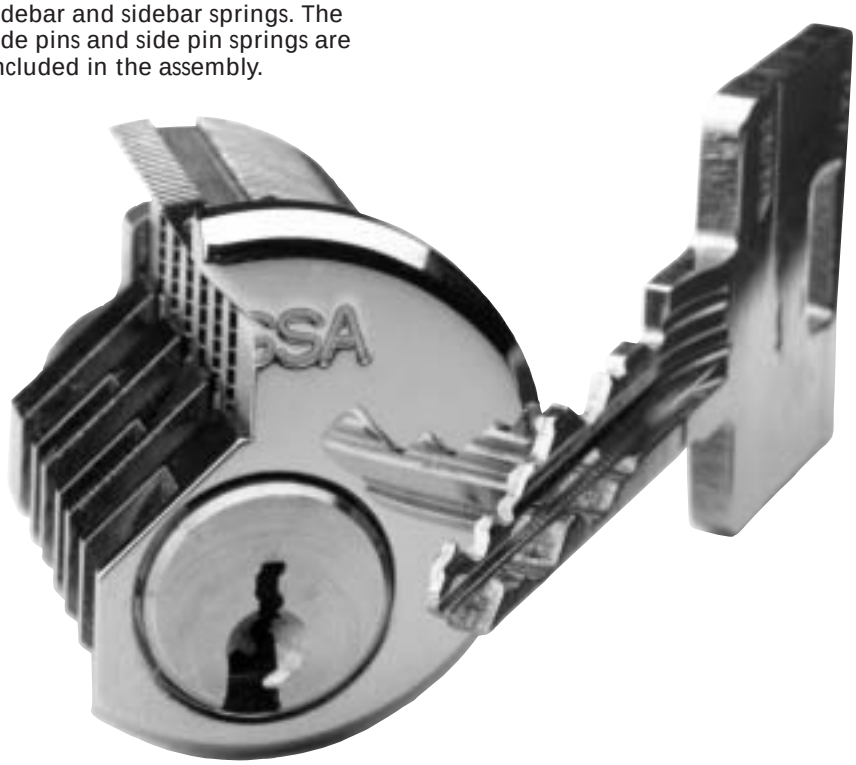
A fully assembled cylinder including two cut keys.

VS (Sub-Assembled Standard)

Uncombinated cylinder without sidebar and sidebar springs. The side pins and side pin springs are included in the assembly.

VCVS (Sub-Assembled Interchangeable Core)

Uncombinated cylinder without sidebar and sidebar springs. The side pins and side pin springs are included in the assembly.



Certification and Patents

SARGENT ASSA V-10

Cylinders are listed in accordance to the standards of UL 437 for pick and drill resistance and protected by one or more United States utility patents or patents pending.

SARGENT ASSA V-10
High Security Cylinder
Mortise and Special Mortise Cylinders

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Mortise Cylinders

Available Prefixes	Catalog #	Length*	Cam Suffix
VA & VS	41	1 1/8”	Select Suffix
VA & VS	42	1 1/4”	
VA & VS	43	1 3/8”	
VA & VS	44	1 1/2”	
VA & VS	45	1 5/8”	
VA & VS	46	1 3/4”	
VA & VS	47	1 7/8”	
VA & VS	48	2”	

* The cylinder length is taken from the underside of head to the back of the cam.

The 40 Series Mortise Cylinders are furnished standard with a #97 Cylinder Ring when the cylinder is ordered separately.

No. 97

Brass, bronze and stainless steel.

1-11/16” diameter, 9/32” projection

Cam Suffix	Description
None	SARGENT Standard
-8	SARGENT Short
-101	Adams Rite 1850 Series
-103	Corbin/Russwin Cloverleaf
-106	Schlage L Series
-107	Corbin/Russwin Beaver Tail
-108	Yale Standard
-109	Best 30H Series Cloverleaf
-110	Air Tec
-111	Segal

Special Mortise Cylinders

Avail.Prefixes	Catalog #	Length*	Dia.	Description
VA & VS	7552	1-1/4”	1-1/2”	Corbin/Russwin Jumbo Cylinder
VA & VS	7553	1-3/8”	1-1/2”	Corbin/Russwin Jumbo Cylinder
VA & VS	8551	1-1/4”	2”	**Mogul Detention Cylinder

* The cylinder length is taken from the underside of head to the back of the cam.

** The Mogul Cylinder is threaded at 27 threads per inch.

These cylinders are not furnished standard with cylinder rings. They are available on special order.

SARGENT ASSA V-10 High Security Cylinder Rim and Special Rim Cylinders

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Rim Cylinders

Available Prefixes	Catalog #	Length*	Tailpiece Position
VA & VS	34S	1”	SARGENT Standard Horizontal
VA & VS	34V	1”	Vertical
VA & VS	34L	1”	Lazy Motion

* The cylinder length is taken from the under side of head to the back of the body.

The 34 Series Rim Cylinders are furnished standard with a #97 Cylinder Ring when the cylinder is ordered separately.

No. 97
Brass, bronze and stainless steel.
1-11/16” diameter,
9/32” projection

Special Rim Cylinders

Available Prefixes	Catalog #	Tailpiece Length*	Position	Description
VA & VS	7552H	1-1/8”	Horizontal	Corbin/Russwin Jumbo Cylinder
VA & VS	7552V	1-1/8”	Vertical	Corbin/Russwin Jumbo Cylinder
VA & VS	7552L	1-1/8”	Lazy Motion	Corbin/Russwin Jumbo Cylinder
VA & VS	8552H	1-1/8”	Horizontal	Mogul Detention Cylinder
VA & VS	8552V	1-1/8”	Vertical	Mogul Detention Cylinder
VA & VS	8552L	1-1/8”	Lazy Motion	Mogul Detention Cylinder

* The cylinder length is taken from the underside of head to the back of the body.

These cylinders are not furnished standard with cylinder rings. They are available on special order.

SARGENT ASSA V-10 High Security Cylinder Interchangeable Core Cylinders

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Interchangeable Core Mortise Cylinders

No. 97
Brass, bronze and stainless steel.
1-11/16" diameter,
9/32" projection

Available Prefixes	Catalog #	Length*	Tailpiece Position	Description
VC & VCVS	42	1-1/4"	None	SARGENT Standard Cam
			-8	SARGENT Short Cam
			-101	Adams Rite 1850 Series Cam
			-103	Corbin/Russwin Cloverleaf Cam
			-106	Schlage L Series Cam
			-107	Corbin/Russwin Beaver Tail Cam
			-108	Yale Standard Cam
			-109	Best 30H Series Cloverleaf Cam
			-111	Segal Cam
VC & VCVS	7552IC	1-1/4"	None	Corbin/Russwin Jumbo Cylinder

* The cylinder length is taken from the underside of head to the back of the body.

The 42 Series Mortise Cylinder is furnished standard with a #97 Cylinder Ring when the cylinder is ordered separately. The 7552 IC is not supplied with a standard cylinder collar. They are available on special order.

Interchangeable Core Rim Cylinders

No. 97
Brass, bronze and stainless steel.
1-11/16" diameter,
9/32" projection

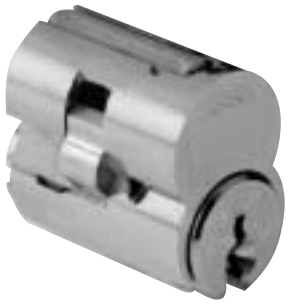
Available Prefixes	Catalog #	Length*	Tailpiece Position	Description
VC & VCVS	34S	1-1/8"	Horizontal	SARGENT's Thrubolt Locations
VC & VCVS	34V	1-1/8"	Vertical	Not to SARGENT's Thrubolt Locations
VC & VCVS	34L	1-1/8"	Lazy Motion	Not to SARGENT's Thrubolt Locations
VC & VCVS	7552 IC-H	1-1/8"	Horizontal	Corbin/Russwin Jumbo Cylinder
VC & VCVS	7552 IC-V	1-1/8"	Vertical	Corbin/Russwin Jumbo Cylinder
VC & VCVS	7552 IC-L	1-1/8"	Lazy Motion	Corbin/Russwin Jumbo Cylinder

* The cylinder length is taken from the underside of head to the back of the body.

The 34 Series Rim Cylinders are furnished standard with a #97 Cylinder Ring when the cylinder is ordered separately.

The 7552 IC is not supplied with a standard cylinder collar. They are available on special order.

Interchangeable Core and Cylinder Housings



Available Prefixes	Catalog #	Length*	Description
VC & VCVS	7300	N/A	Core Only**
VC & VCVS	7342	1-1/4"	Mortise Cylinder Housing***
VC & VCVS	7334	1-1/8"	Rim Cylinder Housing****

* The mortise cylinder length is taken from the underside of head to the back of the cam. The rim cylinder length is taken from the under side of head to the back of the body.

** Prefix VS or VCVS when ordering core only.

*** Suffix the cam number when ordering mortise housing.

**** Suffix the tailpiece location when ordering rim housing if either (V) Vertical or (L) lazy motion is required.

SARGENT ASSA V-10 High Security Cylinder Bored Lock Cylinders

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Bored Key-In-Knob/Lever Cylinders

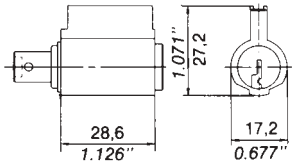
Avail. Prefixes	Cat. #	Manufacturer	Application
VA & VS	C8	SARGENT	7 Line Knob, 8 & 9 Series Line Bored Lock Cylinders
VA & VS	C10	SARGENT	6 Line, 7 Line Lever, 10 Line & 6500 Series Bored Lock Cylinders
VA & VS	C480	SARGENT	480 Series Bored Deadlock Cylinders
VA & VS	C7600	SARGENT	7600 Series IntegraLock Cylinders
VA & VS	65611	Schlage	Standard and Heavy Duty Cylindrical Locks and B Series Deadlocks with 6 pin Cylinders
VA & VS	65631	Yale	Standard and Heavy Duty Cylindrical Locks with 6 pin Cylinders
VA & VS	65632	Yale	Heavy Duty Cylindrical Locks with 6 pin Cylinders
VA & VS	65651	Corbin/Russwin	New Style Heavy Duty Cylindrical Lock Cylinders
VA & VS	65652	Corbin/Russwin	New Style Standard Duty Cylindrical Lock Cylinders
VA & VS	65653	Corbin/Russwin	Replaces 19F35 Cylinders
VA & VS	65654	Corbin/Russwin	Replaces 24F15, 25F26, 25F56, 55F76 and 67F69 Cylinders
VA & VS	65655	Corbin/Russwin	Replaces 25F65 Cylinders
VA & VS	65661	Falcon	Standard Duty S & Heavy Duty X Series Cylindrical Lock Cylinders
VA & VS	65674	Arrow	Bored Deadlocks with 6 pin Chambers
VA & VS	65681	Weiser	4000 & 9000 Series Single Cylinder Deadlock Cylinders
VA & VS	65682	Weiser	4000 & 9000 Series Double Cylinder Deadlock Cylinders
VA & VS	65691	Arrow	Standard Duty & Heavy Duty Cylindrical Lock Cylinders

The original cylinder tailpiece must be used when ordering the 65611 for Schlage's B Series and the 65661 for Falcon locksets.

Contact the factory for other manufacturers not listed.

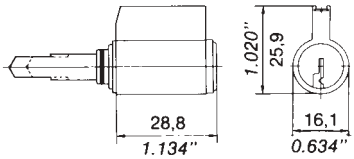
VA or VS C8 SARGENT

Heavy Duty 7 Line (Knob), 8 and 9 Lines.



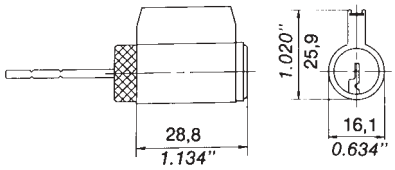
VA or VS C10 SARGENT

Standard Duty 6-Line, 7 Line (Lever), Heavy Duty 10- Line and 6500 Series Lever Locks. 3 tailpieces included.



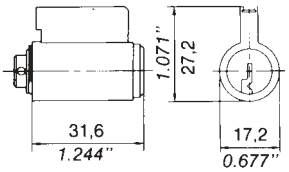
VA or VS C480 SARGENT

480 Series Bored Deadlock. 3 tailpieces included.



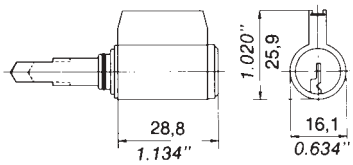
VA or VS C7600 SARGENT

7600 Series Integralok.



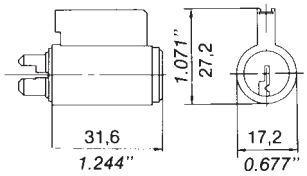
VA or VS 65691 Arrow

Standard and Heavy Duty 6-pin, 2 tailpieces included.



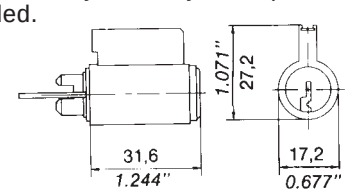
VA or VS 65651 Corbin/Russwin

Heavy Duty. New Style.



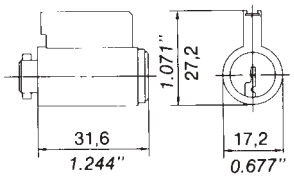
VA or VS 65652 Corbin/Russwin

Standard Duty. New Style. Tailpiece included.



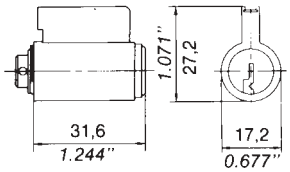
VA or VS 65653 Corbin/Russwin

Russwin cylinder 19FE5.



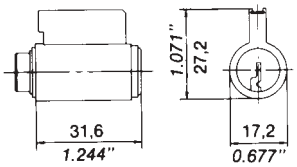
VA or VS 65654 Corbin/Russwin

Russwin cylinder 25F26, 25F56, 24F15, 67F69, 55F76



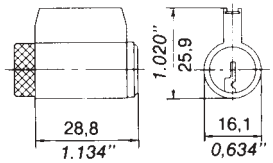
VA or VS 65655 Corbin/Russwin

Russwin cylinder 25F65.



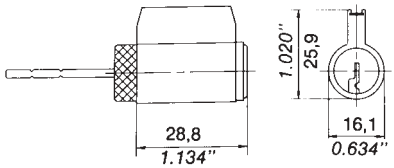
VA or VS 65661 Falcon

S & X Series. Includes cap, pin, spring and tailpiece washer. Use original Falcon tailpiece.



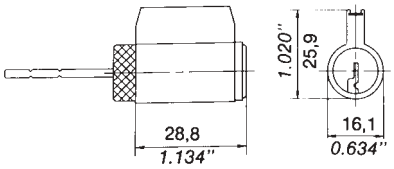
VA or VS 65611 Schlage

Standard and Heavy Duty 6-pin. Includes cap, pin, spring and 3 length breakoff tailpiece. Reuse existing tailpiece with "B" Deadlocks.



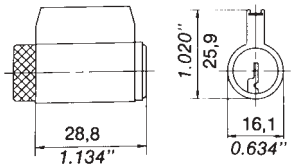
VA or VS 65681 Weiser

Weiser Deadbolt Single cylinder 4000, 9000.



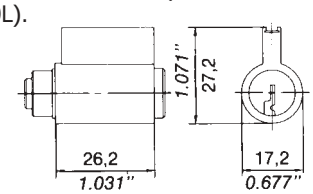
VA or VS 65682 Weiser

Weiser Deadbolt Double cylinder 4000, 9000.



VA or VS 65631 Yale

Standard and Heavy Duty 6-pin Cylindrical Knob Locks (use V65632 for 5400L).



SARGENT ASSA V-10
High Security Cylinder
580 Series Extra Heavy Duty Deadlock

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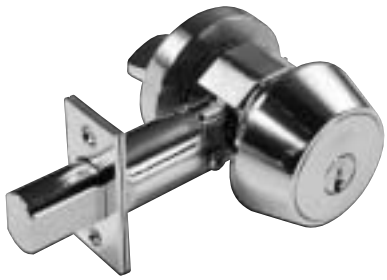
Extra Heavy Duty 580 Series Deadlock

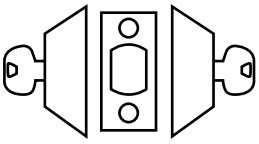
Meets ANSI A156.5 Grade 1 Requirements
The 580 Series is not available in standard SARGENT keyways.



Specifications

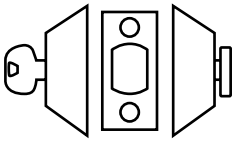
Door Thickness	1-3/4" Standard; 1-3/8" with Spacer Rings; 2" and up with special tailpiece
Backsets	2-3/4" Standard; 2-3/8" Available
Hand	Non Handed
Stile Required	4" Minimum
Deadbolt	7/8" x 5/8" x 1" Throw; 3-3/4" deep bore required for all bolt types
Case	1" Steel
Cylinder	Brass, 6 Pin V-10 only
Cylinder Housing	Machined Brass
Turn Lever	Brass, Bronze
Front	2-1/4" x 1" x 1-1/8" adjustable front; 1-1/8" drivebolt available
Strike	Brass, bronze face with steel strike backplate and box
Finishes	4, 10, 10B, 26 and 26D
Prefixes	20 for 1/8" x 2-1/4" Face, 2-3/8" Backset 28 for 408 Flat Lip strike, 4-7/8" x 1-1/4", ANSI A115.2 20 - 29 for 2-3/8"-1-1/8" Drivebolt, 2-3/8" B.S. 29 for 2-3/4"-1-1/8" Drivebolt, 2-3/4" B.S. VA for Standard V-10 Cylinder VS for Uncombinated V-10 Cylinder

584 Deadlock



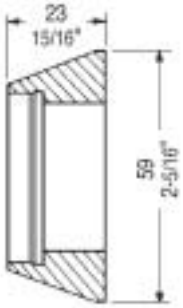
Deadbolt by key either side. Use only on rooms with more than one exit.

585 Deadlock

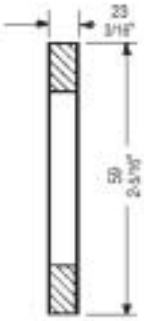


Deadbolt by key from outside and by turn lever from inside.

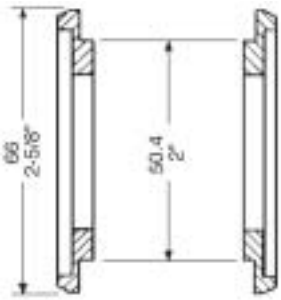
806267 Standard for 1-3/4" Door



806268 Additional Ring for 1-3/8" Door



806269 Use Adaptor for 2-1/8" Crossbore



SARGENT ASSA V-10
High Security Cylinder
480 Series Heavy Duty Deadlock

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1-800-727-5477
www.sargentlock.com

Meets ANSI A156.5 Grade 1 Requirements.

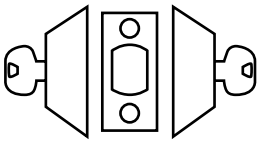
Heavy Duty
480 Series Deadlock

Inside Turn Lever

Specifications

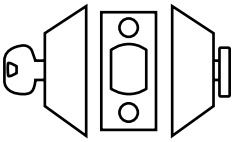
Door Thickness	1-3/8" to 1-3/4"
Backsets	2-3/4" Standard; 2-3/8" Available
Hand	Non Handed
Stile Required	4-1/16" Minimum for 2-3/4" B.S.; 3-11/16" Minimum for 2-3/8" B.S.
Deadbolt	7/8" x 5/8" x 1" Throw
Case	15/16" Steel
Cylinder	Brass, 6 Pin
Cylinder Housing	Non-ferrous, reinforced
Turn Lever	Non-ferrous
Front	2-1/4" x 1-1/8" with fixed bevel; 1/8" in 2", standard 2-1/4" x 1" front available
Strike	Brass, bronze. Stainless steel #404, 1-1/8" x 2-3/4", standard with strike box
Finishes	4, 10, 10B, 26 and 26D
Prefixes	16 for 400 "T" shaped strike; 2-3/4" x 1-1/8" with strike box 20 for 1" x 2-1/4" Face, 2-3/8" Backset 28 for 408 Flat Lip strike, 4-7/8" x 1-1/4", ANSI A115.2 48 for 488 strike. 1-1/4" x 3-5/8" with four mounting screws and strike box VA for Standard V-10 Cylinder VS for Uncombinated V-10 Cylinder

484 Deadlock



Deadbolt by key either side. Use only on rooms with more than one exit.

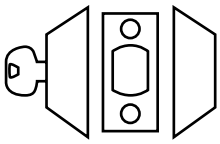
485 Deadlock



Deadbolt by key from outside and by turn lever from inside.

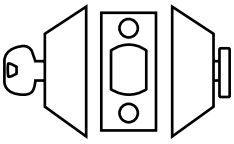
404 Strike

486 Deadlock



Deadbolt by key from outside. Blank plate by exposed screws inside.

487 Deadlock



Deadbolt by key from outside. Inside turn lever retracts bolt but will not throw it.

488 Strike

Reinforced with four mounting screws.

SARGENT ASSA V-10 High Security Cylinder Padlocks

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www.sargentlock.com

The 900 padlock meets the Scandanavian Insurance Institute's requirements for a class 2 rating.

The 900 Series is not available in standard SARGENT keyways.

900 Series High Security Padlock

Specifications

Shackle Locking Strength	3375 Lbf
Impact Resistance (Min 5 blows)	22.5 Lbf-ft
Torsion Strength	187.5 Lbf-ft
Pick Resistance	Extra High
Tensile Strength	Over 1/2 Tons
Padlock Body	Exruded Brass, Black Chrome plated; 2-1/2"w x 2-3/8"h x 7/8"thick
Shackle	15/16" diameter, Hardened Steel
1" Shackle Height	1" x 7/8" opening
2" Shackle Height	2" x 7/8" opening
Cylinder	6 pin, V-10 only
Function	957: 1" shackle non-key retaining 957KR: 1" shackle key retaining 967: 2" shackle non-key retaining 967KR: 2" shackle key retaining
Prefixes	VA for Standard V-10 Cylinder VS for Uncombinated V-10 Cylinder

SARGENT ASSA V-10 High Security Cylinder Architectural Specification

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I. Physical Security

A. All cylinders shall meet the requirements of UL437 including those for pick and drill resistance.

B. Pick Resistance: Cylinders shall incorporate two or more independent locking mechanisms, including:

1. A pin tumbler device with six top pin chambers, capable of master keying to accommodate various levels including master key level, grand master key level, great grand master key lever and higher. Mushroom shaped driver pins shall be provided in all top pin chambers. Additionally, the pin chambers in the cylinder plus shall be countermilled to engage the lip of the mushroom top pin during a picking attempt.
2. Coded sidebar locking mechanism operated independently from the six top pin tumbler devices. The sidebar shall be milled from nickel-silver, be physically capable of at least 2,500 different combinations and be operated by five coded stainless steel sidepins. The sidebars shall be reversible thus forming two distinct keyways per sidebar. False grooves around each sidepin for the sidebar shall offer additional pick resistance.

C. Drill Resistance: Cylinders shall incorporate hardened or case-hardened components to foil drilling attacks, as follows:

1. Cylinder housing shall contain fixed in-place case-hardened inserts to protect the pin tumbler shear line.
2. Cylinder plug shall contain case-hardened inserts to protect the pin tumbler shear line and the sidebar.
3. Mushroom shaped stainless steel driver pins.
4. Sidepins shall be of stainless steel.

D. Pulling Resistance: All cylinders shall be designed and installed in locking devices in such a manner as to resist sharp, forceful pulling forces intended to remove the cylinders and expose the locking mechanism.

II. Key Control

A. Both the cylinders and keyblanks shall be protected from unauthorized manufacture and distribution by the manufacturer's United States and Canadian patents.

B. A Security Contractual Agreement with the end-user must be executed to supply keys, cylinders and related products. This Agreement shall make exclusive to the end-user or the distributor for the end-user's use, a regionally proprietary keyway. The supplier of high security cylinders and keys must demonstrate that the keyblanks and key records of the cylinder combinations are limited in access to the party or parties designated by the contractual agreement.

III. Keys

A. The key blade shall be a minimum of .115" thick (2.93mm).

B. The keys shall be composed of no less than 13% nickel silver by content.

C. The size of the key bow shall be 0.85" minimum to facilitate the use by physically-challenged individuals.

D. The key design and tolerances shall permit the cutting of keys with standard code or duplication machines. The requirement for a single purpose or keyway specific cutting or duplicating machines shall not be allowed.

IV. Warranties

A. The supplier of the keys and cylinders shall warrant its product against defective workmanship or material for the life of a factory supplied and controlled system.

B. The supplier of the keys and cylinders shall warrant that there are no unintentional cross keying within a factory supplied and controlled system.

C. The supplier of the keys and cylinders shall warrant that no other keys for any other V-10 system shall operate within the geographical exclusive territory of the end-user.

D. The supplier shall warrant its keys against breakage, including the replacement cost of the keys plus any reasonable service charge to replace it.

SARGENT ASSA V-10 High Security Cylinder Finishes and How To Order

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Finishes

The standard finishes in the chart to the right are available in all mortise and rim type cylinders. The bored knob and lever cylinders are available in US4 (606) Dull Brass and US15 (619) Satin Nickel only.

Standard Finishes

Description	SARGENT Symbol	BHMA Symbol
Polished Brass	3	605
Dull Brass	4	606
Dull Bronze	10	612
Oil Rubbed Bronze	10B	624
Polished Chrome	26	625
Satin Chrome	26D	626

How to Order

When placing an order for a new V-10 system, specific distributor and facility information is required. SARGENT has prepared four forms which give the Key Records Department the required information. Three of these forms must be executed completely and included with the purchase order for all new V-10 system.

1. SARGENT V-10 Key System Restricted Key Sections Agreement
   a. For End-User facility sidebar, use the End-User Restricted Key Sections Agreement.
   b. For a Distributor sidebar use the Distributor Restricted Key Sections Agreement.
2. Letter of authorization from end user if expanding existing system
3. SARGENT Cover Sheet for all keyed order forms, SARGENT Form #G977 and G978
4. When placing an order for an existing V-10 system, only the system registration number and a letter of authorization on the facility's letterhead is required.

Ordering Cylinders Only

1. Select cylinder number	Standard 1-1/8" long Mortise Cylinder	41
2. List V-10 prefix required	Complete standard cylinder	VA-41
3. List cam suffix required	Adams Rite MS1850 Series	VA-41-101
4. Suffix finish required	Polished Brass	VA-41-101 x US3

Ordering Complete SARGENT Products with V-10 Cylinders*

Products available with V-10 Cylinders:

6 Line, 7 Line (Knob), 8 Line, 9 Line, T-Zone Lever (11 Line) & 10 Line, 7 Line (Lever), 6500 Series, 7800/8200 Series and 9200 Series; 480 Series, 580 Series & 4800 Series Deadlocks; 80 Series & 90 Series Exit Devices; 540, 550, 5100 & 5800 Series Alarmed Exit Hardware; 4000 Series Key Switches

*NOTE: Keys and cylinders will ship separately from hardware in order to provide a higher level of security.

One of four prefixes must be added to SARGENT's full line products to receive the V-10 Cylinder:

VA Prefix is a complete standard fully assembled cylinder including two cut keys.

VS Prefix is a sub-assembled uncombinated standard cylinder without sidebar, sidebar springs and keys. The side pins and side pin springs are included in the assembly.

VC Prefix is a complete interchangeable core fully assembled cylinder housing including two cut keys.

VCVS Prefix is a sub-assembled uncombinated interchangeable core cylinder without sidebar, sidebar springs and keys. The side pins and side pin springs are included in the assembly.

ESSEX™
THE TOTAL OPENINGS PEOPLE

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Phone: 800-727-5477 • Fax: 888-863-5054 • Web site: www.sargentlock.com
SARGENT of Canada • Phone: 905-940-2040 • Fax: 905-940-3242 • Web site: www.sargentcanada.ca

Founded in 1864, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation and replacement applications. The company's customer base includes commercial construction, institutional and industrial markets.

The ASSA ABLOY Group is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.