

SARGENT®

ASSA ABLOY

V10 Series

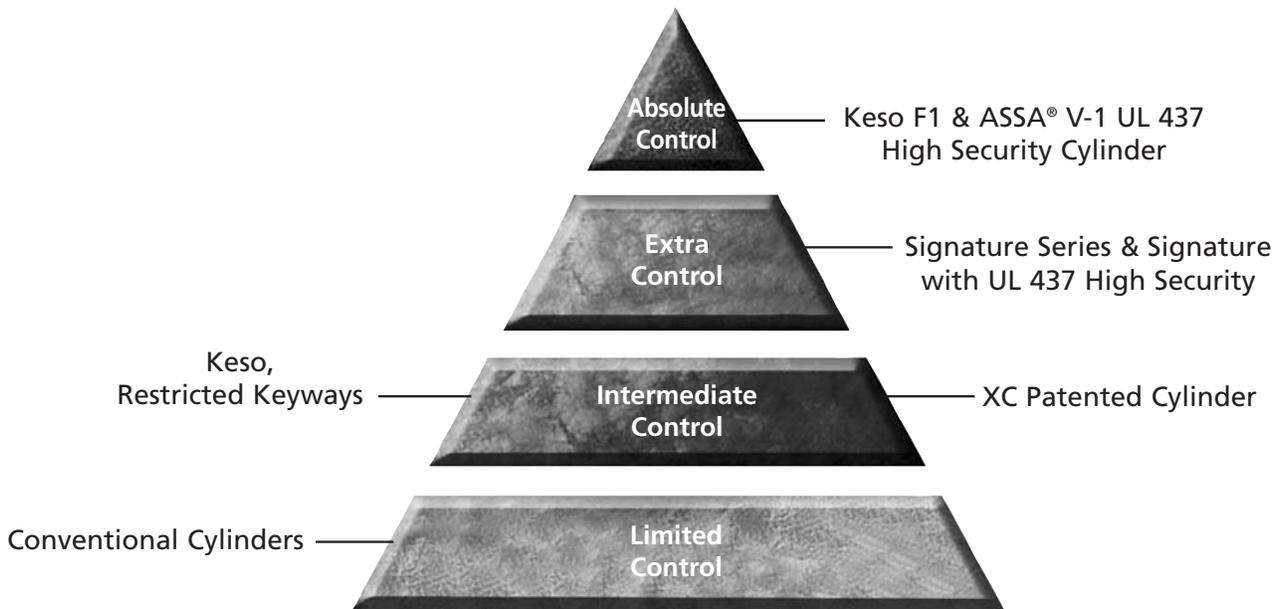
High Security Cylinders



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Pyramid. Cylinder & Key Control Products



See product catalogs for more information

SARGENT'S KeyWizard™ 4.0 Software Package Tracks Multiple Key Systems Including Keys, Keyholders, Locations and Hardware Information

This comprehensive key management software package was developed for locksmiths and end-users to track detailed information. The program features easy to navigate, non-cluttered screens and uses a format similar to Microsoft® Outlook™.

Features:

- Free technical support & free upgrades for one year
- Clear easy to read screens
- Multi-level password protection
- Manages multiple end-users and multiple key systems for most manufacturers
- Customized query, reporting, and search capability
- Global key search across multiple masterkey systems
- Comprehensive hardware listings for door locations
- Displays keyholder photos and signatures for identity verification
- Audit trail history of all key holder keys transactions
- Automatic reminders for maintenance, back-ups, and overdue keys
- Accurate key symbol sorting
- Create cylinder assembly diagrams
- Key authorization tracking
- Customized facilities' logos can now be added to key issue authorization forms
- Customized key receipts and authorization forms
- Tracking of loaned keys and key deposits
- Stores maintenance service history records
- Importing of key systems, keyholders and locations
- Exporting of key systems and locations
- Network and stand-alone versions available



How to Order:

Single License Version

Network Version

Demonstration Version

KeyWizard floppy disk with new masterkey system
(when purchased with hardware)

KeyWizard floppy disk with existing key systems*

KeyWizard replacement for KeyMinder
(Consult factory for eligibility requirements)

Single License Version

Network Version

Part Number

KW-SS1

KW-SSN1

KW-DEMO1

DLKW1

DLKW2

UP-KW-SS1

UP-KW-SSN1

* Please consult factory for the availability of existing systems for use with KeyWizard.

Computer System Recommendations:

REQUIRED:

- 350 MHZ processor or greater
- Windows® 98, 2000, ME, NT or XP
- 16 MB RAM
- CD Drive
- Mouse pointing device
- 60 MB hard disk space

RECOMMENDED For Better Performance:

- 500 MHZ processor or greater
- Windows® 98, 2000, ME, NT or XP
- 64 MB RAM
- CD Drive
- Mouse pointing device
- 70 MB hard disk space

V10 High Security Cylinder

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SARGENT ASSA® V-10 patented key design and exclusive end-user keyways offer maximum protection against unauthorized key duplication and the highest level of control currently available. V-10 cylinders meet UL437 standards for pick and drill resistance. Cylinders incorporate a dual locking mechanism with coded side bar and specially designed stainless steel pins to thwart picking attempts. Rim, mortise and cylindrical lock cylinders are available to retrofit most popular brands of commercial hardware and are field serviceable. The 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 for 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 combined sidebar and keyblank.

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

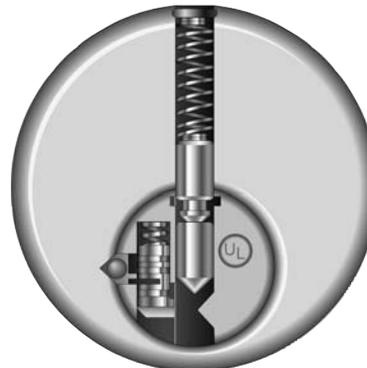
Mortise and Rim Cylinders

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 use.

V-10 mortise cylinders will improve the security of locks installed in aluminum storefront doors, rolling grills, shutters, overhead doors and a wide variety of special locking devices. Mortise cylinders can also be applied in 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. This quality 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 the exact original manufacturers' specifications to assure precise fit and operation.



Features

Materials

Cylinder housing and inner plug are 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 offers trouble-free use by physically challenged users. The keys are guaranteed for the life of the cylinders against breakage under normal operating conditions.

Visual control (VKC) or key stamping of up to five characters on keys is available. For security reasons, cylinders are not offered with VKC.

Cylinder Form

Cylinders are available in four different forms

Uncombined cylinder without keys, sidebar and sidebar springs

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)

Uncombined cylinder without keys, sidebar and sidebar springs. The side pins and side pin springs are included in the assembly.

VCVS (Sub-Assembled Interchangeable Core)

Uncombined cylinder without keys, sidebar and sidebar springs. The side pins and side pin springs are included in the assembly.

Certification and Patents

All V-10 Cylinders including the interchangeable core version are listed in accordance with the UL 437 standards for pick and drill resistance and protected by one or more United States utility patents or patents pending



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 VA or VS 40 Series Mortise Cylinders are furnished standard with a #97 rosette when the cylinder is ordered without hardware

Cam Suffix	Cam Part Number	Description
None	18-0077	SARGENT Standard
-8	18-0358	SARGENT Short
-101	18-0076	Adams Rite 1850 Series
-103	18-0078	Corbin/Ruswin Cloverleaf
-106	18-0081	Schlage L Series
-107	18-0079	Corbin/Ruswin Beaver Tail
-108	18-0080	Yale Standard
-109	18-0084	Best 30H Series Cloverleaf
-110	18-0085	Air Tec
-111	18-0082	Segal



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

Part number for Cams to be purchased separately standard

Special Mortise Cylinders

Avail. Prefixes	Catalog #	Length*	Dia.	Description
VA & VS	7552	1-1/4"	1-1/2"	Corbin/Ruswin Jumbo Cylinder
VA & VS	7553	1-3/8"	1-1/2"	Corbin/Ruswin 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



V10 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 underside of head to the back of the body
The VA or VS 34 Series Rim Cylinders are furnished standard with a #97 rosette when the cylinder is ordered without hardware



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



Interchangeable Core Mortise Cylinders

Available Prefixes	Catalog #	Length*	Tailpiece Suffix	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

* The cylinder length is taken from the underside of head to the back of the Cam
The VC or VCVS 42 Series Mortise Cylinders are furnished standard with a #97 rosette when the cylinder is ordered separately
The 7552 IC is not supplied with a standard cylinder collar. Available on special order



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

Interchangeable Core Rim Cylinders

Available Prefixes	Catalog #	Length*	Tailpiece Position	Description
VC & VCVS	34S	1-1/8"	Horizontal	Not to SARGENT's Through-bolt Locations
VC & VCVS	34V	1-1/8"	Vertical	Not to SARGENT's Through-bolt Locations
VC & VCVS	34L	1-1/8"	Lazy Motion	Not to SARGENT's Through-bolt 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 VC or VCVS 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. Available on special order



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

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



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	C11	SARGENT	11 line (T Zone) Lever Lock Cylinder
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/Ruswin	New Style Heavy Duty Cylindrical Lock Cylinders
VA & VS	65652	Corbin/Ruswin	New Style Standard Duty Cylindrical Lock Cylinders
VA & VS	65653	Corbin/Ruswin	Replaces 19F35 Cylinders
VA & VS	65654	Corbin/Ruswin	Replaces 24F15, 25F26, 25F56, 55F76 and 67F69 Cylinders
VA & VS	65655	Corbin/Ruswin	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

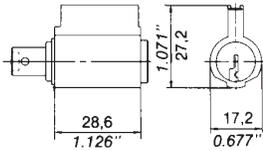
V10 High Security Cylinder Bored Lock Cylinders

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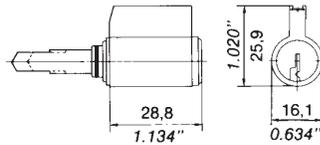
VA or VS C8 SARGENT

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. Three tailpieces included.

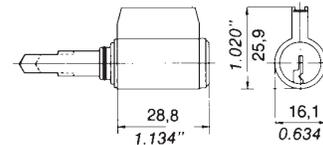


VA or VS C11 SARGENT Heavy Duty 11 line (T Zone) Cylinder

11 Line/T Zone Heavy Duty Cylinder
Similar to the VA/VS C10
Except for a Shorter Tail Piece
(P/N 18-0436)

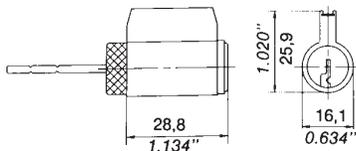
VA or VS 65691 Arrow

Standard and Heavy Duty 6-pin,
2 tailpieces included



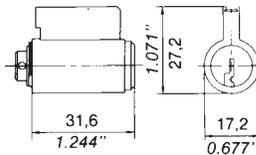
VA or VS C480 SARGENT

480 Series Bored Deadlock.
3 tailpieces included.



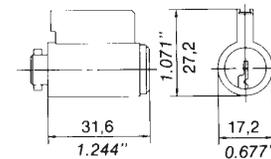
VA or VS C7600 SARGENT

7600 Series Integralock



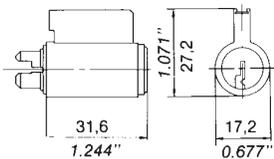
VA or VS 65653 Corbin/Russwin

Russwin cylinder 19FE5



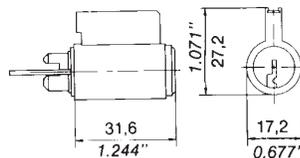
VA or VS 65651 Corbin/Russwin

Heavy Duty. New Style.



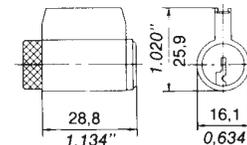
VA or VS 65652 Corbin/Russwin

Standard Duty. New Style.
Tailpiece included.



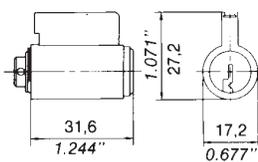
VA or VS 65661 Falcon

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



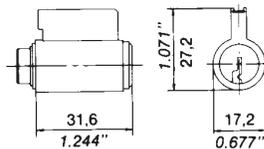
VA or VS 65654 Corbin/Russwin

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



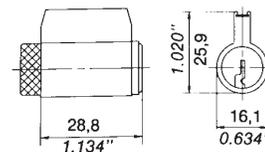
VA or VS 65655 Corbin/Russwin

Russwin cylinder 25F65



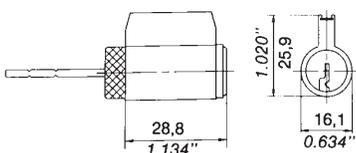
VA or VS 65682 Weiser

Weiser Deadbolt Double cylinder
4000, 9000



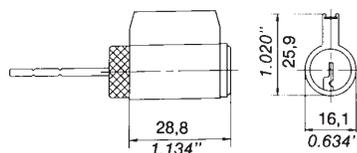
VA or VS 65611 Schlage

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



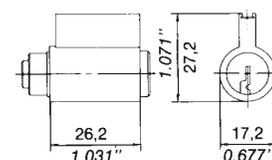
VA or VS 65681 Weiser

Weiser Deadbolt Single cylinder
4000, 9000



VA or VS 65631 Yale

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



V10 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

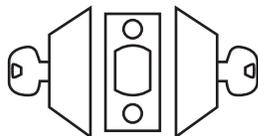
The 580 Series is not available in standard SARGENT keyways

Specifications

Door Thickness	1-3/4" Standard; 1-3/8" with Spacer Ring
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 Uncombined V-10 Cylinder

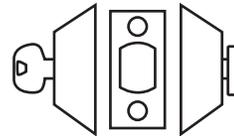


584 Deadlock



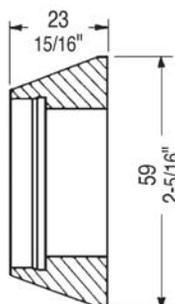
Deadbolt by key either side. Use only on rooms with more than one exit.

585 Deadlock

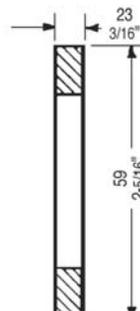


Deadbolt by key from outside and by turn lever from inside.

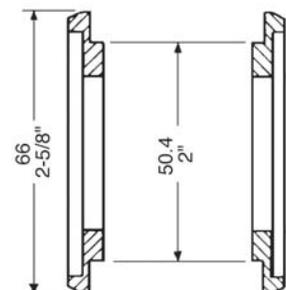
806267 Standard for 1-3/4" Door



806268 Additional Ring for 1-3/8" Door



806269 Use Adapter for 2-1/8" Crossbore



V10 High Security Cylinder 480 Series Heavy Duty Deadlock

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Heavy Duty 480 Series Deadlock

Meets ANSI A156.5 Grade 1 Requirements.

Specifications

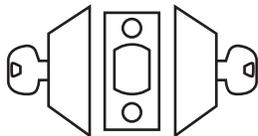
Door Thickness	1-3/8" to 1-3/4"
Backsets	2-3/4" Standard; 2-3/8" Available
Hand	Non-Handed
Stile Required	4-1/16" Minimum for 2-3/4" B.S.; 3-11/16" Minimum for 2-3/8" B.S.
Deadbolt	7/8" x 5/8" x 1" Throw
Case	15/16" Steel
Cylinder	Brass, 6 Pin
Cylinder Housing	Non-ferrous, reinforced
Turn Lever	Non-ferrous
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 Uncombined V-10 Cylinder



Inside Turn Lever

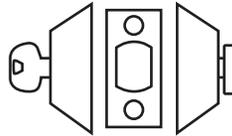


484 Deadlock



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

485 Deadlock

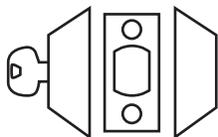


Deadbolt by key from outside and by turn lever from inside.

404 Strike

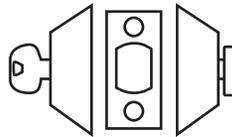


486 Deadlock



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.

900 Series High Security Padlock

The 900 padlock meets the Scandinavian Insurance Institute's requirements for a class 2 rating
The 900 Series is not available in standard SARGENT keyways



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	Extruded 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 Uncombined V-10 Cylinder

Accessories

Cylinder lubricant in handy aerosol spray (P/N 18-0070)

Cylinder cleaner/deicer in aerosol spray (P/N 18-0435)

V10 High Security Cylinder Cylinder Kit

437V Pinning Kit

This steel housed kit is used to service the SARGENT V-10 rim, mortise and bored lock cylinders with the VA prefix.

It contains 100 each of all driver, bottom and master pins.

Also included are 500 driver springs, 100 pin chamber closure strips, 100 side bar springs, 100 side bar pins and 50 left side pins.

Note: When pinning V-10 Interchangeable core "VC" cylinders the 437V-PKIC upgrade kit catalog is to be used with the 437V kit.



437V-PKIC Upgrade Pinning Kit

This steel housed upgrade kit is used with the 437 V kit by locksmiths for servicing the VA 7300 SARGENT V-10 interchangeable cores cylinders.

It contains 100 each of the different top and master pins that are not supplied in the standard 437V kit.

Also included 200 control driver springs along with 100 pin chamber closure strips.



437V-MPK Master Pinning Kit

This kit combines both the 437V and 437V-PKIC in to one kit for servicing standard V-10 cylinders (VA -prefix) and Interchangeable Core (VC-prefix).



Finishes

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

Finishes*

Description	SARGENT Symbol	BHMA Symbol
Polished Brass	3	605
Dull Brass	4	606
Dull Bronze	10	612
Satin Nickel	15	619
Oil Rubbed Bronze	10B	613
Polished Chrome	26	625
Satin Chrome	26D	626

* Not all finishes available with all products. Consult catalog page.

How to Order

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

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.

When 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 |

When Ordering Complete SARGENT Products with V-10 Cylinders*

Most SARGENT products are 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

Consult individual catalogs for availability.

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

The VC and VCVS prefixes are available only with products that use mortise and rim cylinders and the 11 and 580 series

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

VA Prefix: Complete standard fully assembled cylinder including two cut keys

VS Prefix: Sub-assembled uncombined standard cylinder without sidebar, sidebar springs and keys. The side pins and side pin springs are included in the assembly. Keys not included.

VC Prefix: Complete interchangeable core fully assembled cylinder housing including two cut keys

VCVS Prefix: Sub-assembled uncombined interchangeable core cylinder without sidebar, sidebar springs and keys. The side pins and side pin springs are included in the assembly. Keys not included.

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.