Pilot Supply

Operating Pressure

Internal Pilot – Solenoid Valves 3/8" & 3/4" Body

• 20 to 140 PSIG (standard)

1-1/4" Body

• 25 to 140 PSIG (200 PSIG option available)

Internal Pilot - Remote Pilot Valve

Operating Pressure Limitations							
Air Pressure	Remo	Remote Pilot Pressure (PSI)					
Thru Valve	3/8" Basic	3/8" Basic 3/4" Basic 1-1/4" Basic					
25 PSI	30-250	30-250	30-250				
50 PSI	50-250	50-250	50-250				
75 PSI	70-250	75-250	70-250				
100 PSI	95-250	95-250	90-250				
150 PSI	140-250	145-250	130-250				
200 PSI	175-250	185-250	175-250				
250 PSI	215-250	230-250	205-250				

Solenoid Valves: External Supply

3/8" & 3/4" Basic

Air Pressure	External Pilot Pressure Required (PSI)*			
Thru Valve (PSI)	3/8" Basic	3/4" Basic		
25 PSI	35-200	35-200		
50 PSI	45-200	40-200		
75 PSI	55-200	50-200		
100 PSI	65-200	65-200		

Vacuum up to 1" HG, less than a perfect vacuum.

* With 200 PSI option.

Do not exceed 140 PSI with standard pilots.



3/8" & 3/4" Body Single Solenoid External Pilot Normally Closed



3/8" & 3/4" Body Single Solenoid External Pilot Normally Open



3/8" & 3/4" Body 1-1/4" Body Remote Operated External Return Normally Closed



3/8" & 3/4" Body 1-1/4" Body
Remote Operated External Return
Normally Open

External Pilot supply should be used when the main valve needs to operate below the Minimum Operating Pressure or at Vacuum. A Selector function can also be achieved (pressurizing the IN and EXHAUST ports) with an External Pilot Supply. Refer to charts for required external pilot pressure.



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Flow

Basic Valve Size	Inlet Port Size	Exhaust Port Size	Cv Inlet to Cylinder	Cv Cylinder to Exhaust
3/8" 3-Way	3/8" Pipe	1/2" Pipe	3.6	4.2
Normally Closed	1/2" Pipe	1/2" Pipe	3.8	4.3
3/8" 3-Way	3/8" Pipe	1/2" Pipe	3.6	4.1
Normally Open	1/2" Pipe	1/2" Pipe	3.9	4.5
3/4" 3-Way	1/2" Pipe	3/4" Pipe	8.2	9.2
Normally Closed	3/4" Pipe	1" Pipe	9.3	10.8
3/4" 3-Way	1/2" Pipe	3/4" Pipe	7.7	6.6
Normally Open	3/4" Pipe	1" Pipe	9.6	11.4
1-1/4"	1" Pipe	1-1/4" Pipe	19.5	23.5
3-Way Normally	1-1/4" Pipe	1-1/2" Pipe	23.3	26.9
Closed	1-1/2" Pipe	1-1/2" Pipe	23.3	26.9
1-1/4"	1" Pipe	1-1/4" Pipe	20.4	24.8
3-Way Normally	1-1/4" Pipe	1-1/2" Pipe	25.0	29.1
Open	1-1/2" Pipe	1-1/2" Pipe	26.7	29.9

Temperature Rating

Operating Temperature Range:

Operator Type	Duty Cycle*	Minimum Ambient Temperature	Maximum Ambient Temperature
Standard Service	Intermittent	0°F (-18°C)	125°F (52°C)
Solenoid	Continuous	0°F (-18°C)	100°F (38°C)
Special Service	Intermittent	0°F (-18°C)	125°F (52°C)
Solenoid	Continuous	0°F (-18°C)	125°F (52°C)
Remote Pilot	Not Applicable	0°F (-18°C)	200°F (93°C

^{*} Applications with pilot valves energized for ten (10) minutes or longer with a duty cycle greater than 70% are considered to be continuously energized.

Duty cycle = $\frac{\text{Time energized}}{\text{Time energized + time off}} \times 100\% = \% \text{ Duty Cycle}$

Materials of Construction

Valve Body	Cast Aluminum
Poppet Assembly	Aluminum and Stainless Steel
Pilot Valve	Zinc, Stainless Steel, Brass, Copper,
	Zinc Plated Steel
Sools	Nitrilo

Selection

Although reasonable safety factors are designed into each speed poppet valve, it is important that application requirements do not exceed the rated limitation of the valve. This precaution insures a sufficient safety factor.

Life Expectancy

Normal multimillion cycle life expectancy of high speed poppet series valves is based on the use of properly filtered and lubricated air at room temperature. In actual laboratory tests, the high speed poppet valves provide maintenance-free service life in excess of 20,000,000 cycles.

Lubrication

The high speed poppet valves are pre-lubricated to permit use with non-lubricated air. However, air should be lubricated to assure maximum seal life.

F442 lubricating oil is recommended. This oil is specially formulated to provide peak performance and maximum service life from air-operated equipment.

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Other good air line lubricating oils may be used provided they atomize readily and are of the medium aniline type. Aniline point range must be between 180°F - 220°F. Viscosity SUS @ 100°F of 140-170. High aniline oils will shrink seals; low aniline oils will swell seals, reducing operating life and expectancy.

Installation

Valves should be installed with reasonable accessibility for service whenever possible. Care should be taken to hold piping length to a minimum and to protect valves from exposure to extreme heat, dirt and moisture. Piping should be clean and clear of dirt and chips. Threads should be the correct size and undamaged. Pipe joint compound should be used sparingly and only on pipe threads, never in the valve body. Care should be taken in installation to avoid undue strain on valve.

For the small port size options, it is recommended that an air reservoir is located close to the valve inlet as to not starve the valve of air pressure.

∠ CAUTION: DO NOT RESTRICT THE INLET TO POPPET VALVES

Restriction of the inlet can starve the air supply to the pilot section of internally piloted poppet valves and result in slow shifting or failure of the valve to shift properly. Always connect the supply line directly to the inlet of the valve using the full pipe size of the valve inlet. Never use a quick coupling to connect a poppet valve to the air supply. On valves with a small inlet port, use of an upstream surge tank may be required at lower operating pressures to insure an adequate air supply and proper operation.



Automotive Connections

- 3-Pin & 5-Pin "Mini" (7/8 UNF Thread)
- 4-Pin "Micro" (M12 Thread)

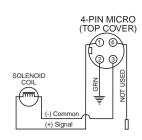
Solenoid Configurations

"E", "J", "N"

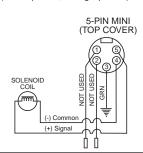
Wiring Connections

Chrysler Connection

4-Pin Male/Single Solenoid (Encl. Option J, Wiring Option C)



5-Pin Male/Single Solenoid (Encl. Option N, Wiring Option C)



Ford Connection

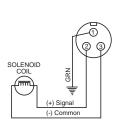
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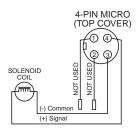
Viking Xtreme

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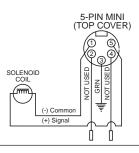
3-Pin Male/Single Solenoid (Encl. Option E, Wiring Option F)



4-Pin Male/Single Solenoid (Encl. Option J, Wiring Option F)

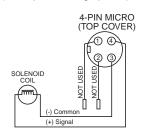


5-Pin Male/Single Solenoid (Encl. Option N, Wiring Option F)

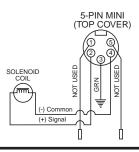


GM Connection

4-Pin Male/Single Solenoid (Encl. Option J, Wiring Option G)



5-Pin Male/Single Solenoid (Encl. Option N, Wiring Option G)





Solenoid Characteristics Chart Voltage Range +10/-15% of Nominal

3/8" & 3/4" Basic – L-Pilot					
Voltage/ Cycles	Amps Inrush	Amps Holding	Resistance Ohms	Watts	Insulation Class
120/60VAC	.29	.18	122	12	В
110/50VAC	.21	.14	122	12	В
240/60VAC	.18	.12	610	12	В
24/60VAC	1.6	1.0	4.5	9.5	В
24/50VAC	1.2	.75	6.4	9.5	В
6VDC	-	1.4	4.5	7.6	В
12VDC	-	.66	17.7	9	В
24VDC	-	.32	71	9	В
48VDC	_	.22	216	11	В

1-1/4" Basic – P-Pilot					
Voltage/ Cycles	Amps Inrush	Amps Holding	Resistance Ohms	Watts	Insulation Class
120/60VAC	.46	.25	35	18.5	В
110/50VAC	.36	.19	48	12	В
230/60VAC	.26	.15	125	19.5	В
220/50VAC	.20	.11	191	15	В
24/60VAC	2.3	1.4	1.3	20	В
24/50VAC	1.6	.9	2.1	12	В
12VDC	_	.7	17	8	В
24VDC	_	.33	68	8	В
48VDC	_	.16	275	7.5	В

NOTE:Continuous duty type service is for applications where pilot valve is energized more than ten (10) minutes.

Hazardous Duty Solenoid Listing

Valves with solenoid operators designed for hazardous locations are UL & CSA Approved as follows:

National Electric Code	Ambient Conditions	NEMA Classification
Class I Div. 1 Group C	Ethyl, Ether, Etc. Gases & Vapors	VII (7)
Class I Div. 1 Group D	Gasoline, Etc. Gases & Vapors	VII (7)
Class I Div. 2 Group B	Butadiene, Etc., Liquid, Fluid or Vapor Normally Contained, or Atmosphere Ventilated	VII (7)
Class II Div. 1 Group E	Metal Dust	IX (9)
Class II Div. 1 Group F	Coal, Coke, Carbon Black Dust	IX (9)
Class II Div. 1 Group G	Flour, Starch, Grain Dust	IX (9)

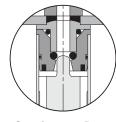
See Article 500 - Hazardous (Classified) Locations, National Electric Code.

Continuous Duty Pilots

Continuous duty pilots are designed for applications where cycling is infrequent and the pilot is to be energized for indefinite periods of time . . . hours, days or weeks. Typical uses include fail-safe or emergency shutdown circuits where the pilot is to be energized and the valve open as long as the main control is "live" in order to shut off air to equipment in the event of power failure.

The Continuous duty pilot operates satisfactorily in ambient temperatures up to 125°F, even when continuously energized and without the benefit of the cooling air which normally flows through the pilot during frequent cycling. Under certain conditions, satisfactory operation may be obtained at ambient temperatures above 125°F. CONSULT FACTORY.

Incorporating the performanceproven design features of the standard L-Pilot, the continuous duty pilot utilizes a bullet-shaped stem on the upper end of the plunger. This bullet-shaped stem, seating in a high-temperature rubber o-ring, provides both a bubble-tight seal and positive release.



Continuous Duty

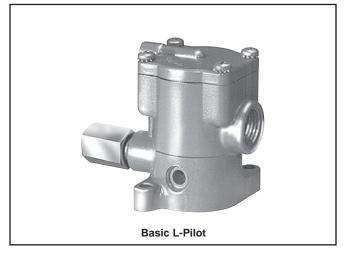
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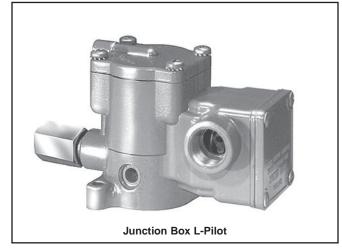
В

Viking

VDEX

Technical Information



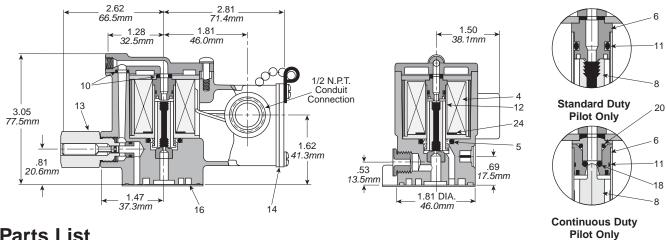


Replacement Pilots

Description	Standard L-Pilot		Continuous Duty L-Pilot	
Override Type	Locking	Non-Locking	Locking	Non-Locking
Basic with Override	K0653035**	K0652035**	K0853025**	K0852025**
JIC with Junction Box & Override	K0656035**	K0655035**	K0856025**	K0855025**
JIC Pilot with Junction Box & Override & Indicator Lights (120VAC Only)	K0659035**	K0658035**	K0859025**	K0858025**

(Revised 03-27-12)

** Voltage Code - (Reference Model Index for Availability)



Parts List

Item No.	Part Number	Description
	K593025	Coil 120V 60Hz / 110V 50Hz
	K593035	Coil 240V 60Hz / 220V 50Hz
4	K593003	Coil 6VDC / 24V 60Hz
4	K593010	Coil 12VDC
	K593014	Coil 24VDC
	K593041	Coil 120VDC
5	H14213	Seal
6	K423006	Top Seat
0	K423010	Top Seat (Continuous Duty)
8	K343002	Plunger (STD. Service)
0	K343001	Plunger (Continuous Duty)
10*	H14201	Seal
11*	K41RB72011	O-Ring (STD. Service)
11"	H24969	O-Ring (Continuous Duty)

Item No.	Part Number	Description
12	K272004	Plunger Guide
13	K152003	Override Assembly
14	K183047	Cover Gasket
16*	K183001	Gasket
18*	H13473	O-Ring
20*	H13413	O-Ring
22	H19102	120 AC Only – Indicator Light
24	K183108	Gasket

Coil leads are 19" long.

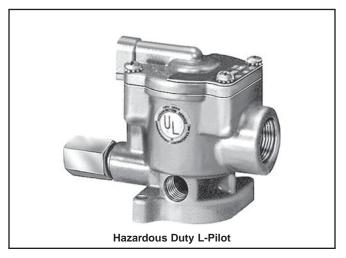
* Parts included in Service Kit. Continuous Duty Kit K352 366 Standard Service Kit K352 166

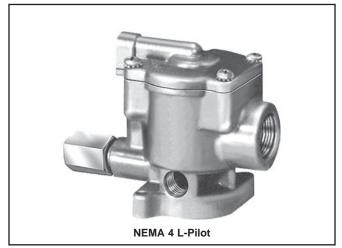


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(Revised 03-27-12)

Technical Information

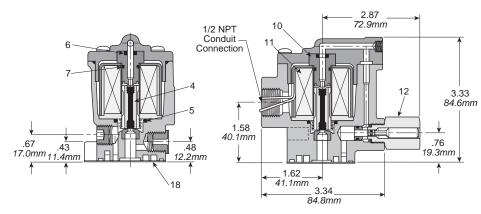


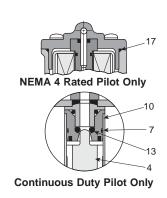


Replacement Pilots

Description	Continuous	Duty L-Pilot
Hazardous Duty L-Pilot - UL & CSA	K0451025**	_
Override Type	Locking	Non-Locking
Hazardous Duty with Override	K0453025**	K0452025**
NEMA 4 with Override	K2553025**	K255202549

^{**} Voltage Code - 49 & 53





Parts List

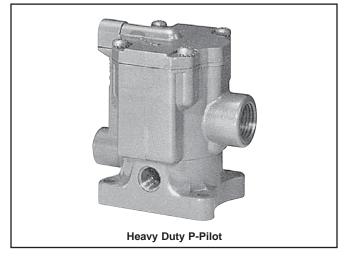
Item No.	Part Number	Description
4*	K343002	Plunger (STD. Service)
4"	K343001	Plunger (Continuous Duty)
5*	K14213	Seal
6*	K41RB72009	O-Ring
0"	K41RB72008	O-Ring (STD. Service)
7*	K41RB72011	O-Ring (STD. Service)
<i>I</i> "	H24969	O-Ring (Continuous Duty)
10	K423001	Top Seat
10	K423002	Top Seat (Continuous Duty)
	K593025	Coil 120V 60Hz / 110V 50Hz
	K593035	Coil 240V 60Hz / 220V 50Hz
11	K593003	Coil 6VDC / 24V 60Hz
11	K593010	Coil 12VDC
	K593014	Coil 24VDC
	K593041	Coil 120VDC

Item No.	Part Number	Description
12	K152003	Override Assembly
13*	H13473	O-Ring
17*	H13716	Gasket (NEMA 4 Rated Pilot Only)
18*	K183001	Gasket

Coil leads are 19" long.

* Parts included in Service Kit. Continuous Duty Kit K352 366 Standard Service Kit K352 166

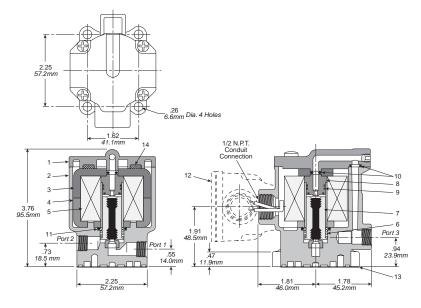




Replacement Pilots

Description	Standard P-Pilot			
Override Type	No Override	No Override Non-Locking		
Basic with Override	K1351045**	N/A	N/A	
JIC with Junction Box & Override	N/A	K1355045**	K1356045**	
JIC Pilot with Junction Box & Override & Indicator Lights (120VAC Only)	N/A	K135804553	K135904553	

** Voltage Code - 49 & 53



Item No.

6

• 7

8

• 9

• 10 • 11

12

• 13

Part Number

K473010

K473011

K343042 K423020

K423022

H13436

H14202

H14215

K322004

K183012

Parts List

Item No.	Part Number	Description		
1	K062005	Cover Assy		
2	K112045	Body, Man. Mtd. (1/8" Bottom Seal)		
-	K112046	Body, Man. Mtd. (3/16" Bottom Seal)		
3	K013001	Magnet Bar		
4	K272002	Sleeve Sub Assy		
	K593108	Coil (115V 60Hz)		
5*	K593112	Coil (230V 60Hz)		
5"	K593097	Coil 24VDC		
	K593107	Coil 115VDC		

* (Coil	leads	are	19"	long.

Parts included in Seal Kit K352 064.



Description

Spring N.O. Valve Spring N.C. Valve

Junction Box Kit

Top Seat (1/8" Orifice)

Top Seat (3/16" Orifice)

Plunger

Seal

Seal

Seal

Gasket

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Coil Information

Coils for L-Pilot Operated Valves

Voltage	Voltage Voltage			Coil	
Code **	60Hz	50Hz	DC	19" Leads	72" Leads
40	12	_	_	K593007	_
41,42	24	_	6	K593003	_
45*		_	12	K593010	_
49*			24 (Standard)	K593014	_
79			24 (Arc Suppressed)	K593271	_
51*			48	_	K593185
53*	120	110	_	K593025	_
57*	240	240	_	K593035	_
60	240	220	_	K593035	_
61	_	_	120	K593041	_

(Revised 03-27-12)

Coils for P-Pilot Operated Valves

Voltage		Voltage		Coil	
Code **	60Hz	50Hz	DC	19" Leads	72" Leads
42	24	_		K593099	_
43	_	24	_	K593098	_
45	_	_	12	K593094	_
49	_	_	24	K593097	_
51	_	_	48	_	K593254
53	115	_	_	K593108	_
58	_	230	_	K593111	_

N		*	*	
				Voltage Code



D133

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Viking Xtreme

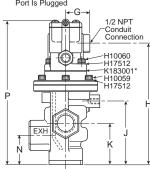
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^{*} Indicates voltages approved for solenoid operators designed for use in hazardous locations.

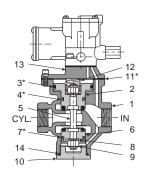
B

On 2-Way Valve This Port Is Plugged

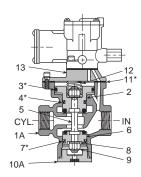


On 2-Way Valve This Port Is Plugged 1/2 NPT Conduit Connection H10060 H17512 -K183001* -H10059 -H17512

Normally Closed



Normally Open



Key	3/8" Valve	3/4" Valve	Description	
	_	1/2" Tap K053075		
1	3/8" Tap K053022	3/4" Tap K053076	Body (N.C.)	
	1/2" Tap K053023	1" Tap K053220		
	_	3/4" Tap K053077		
1A	3/8" Tap K053025	3/4" Tap K053078	Body (N.O.)	
	1/2" Tap K053026	1" Tap K053218		
2	K212001	K212002	Upper Piston Assy	
3*	H13648	H13728	Seal	
4*	H14510	H13676	U-Cup (3/8), O-Ring (3/4)	

Exhaust
Pressure

Top view indicates flow through 3-Way valve with coil de-energized.

NOTE: For normal valve operation, override must be in "out" position.

Dimensions

Key	3/8" Body		3/4" Body	
Rey	Inch	mm	Inch	mm
Α	1.56	40	2.13	54
В	1.50	38	1.94	49
С	1.81	46	1.34	34
D	.56	14	.56	14
Е	3/8-16 7/16"		3/8-16 9/16"	
F	1.75	44	2.25	57
G	1.50	38	1.50	38
Н	5.92	150	7.14	181
J	3.19	81	3.75	95
K	1.88	47	2.44	62
N	1.44	37	1.78	45
Р	7.36	196	8.58	218
Q	2.31	59	3.09	84

Service Kits

Include all parts normally required for in-service maintenance:

- 3/8" Basic Valve with standard
- 3/8" Basic Valve with continuous duty L-PilotsK352276
- 3/4" Basic Valve with standard
- 3/4" Basic Valve with continuous duty L-PilotsK352277

Key	3/8" Valve	3/4" Valve	Description
5	K493002	K493009	Stem
6	K202001	K202002	Lower Piston Assy.
7*	H14509	H13676	U-Cup (3/8), O-Ring (3/4)
8	H17811	H17813	Washer (2)
9	H06326	H06332	Stop Nut (2)
10	K103035	K103053	Bottom Cap (N.C.)
10A	K092020	K092034	Bottom Cap Assy. (N.O.)
11*	K183049	K183057	Gasket
12	K473014	K473015	Spring
13	K563015	K563017	Adapter
14*	K41RB72121	K41RB72221	O-Ring

^{*} Parts included in seal kit





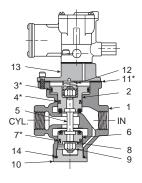
Top view indicates flow through 3-Way valve with coil de-energized.

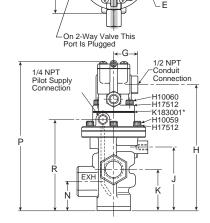
NOTE: For normal valve operation, override must be in "out" position.

Dimensions

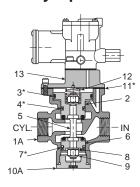
Key	3/8"	Body	3/4"	Body	
rey	Inch	mm	Inch	mm	
Α	1.56	40	2.13	54	
В	1.50	38	1.94	49	
С	1.81	46	1.34	34	
D	.56	14	.56	14	
E	3/8-16UNC 7/16" deep		3/8-16UNC 9/16" deep		
F	1.75	.75 44 2.25		57	
G	1.50	38	1.50	38	
Н	6.42	6.42 163		189	
J	3.19	81	3.75	95	
K	1.88	47	2.44	62	
N	1.44	37	1.78	45	
Р	7.86	200	8.89	226	
Q	2.31	59	3.09	84	
R	4.34	110	5.38	137	

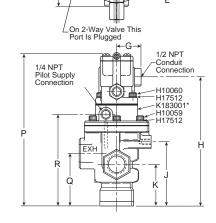
Normally Closed





Normally Open





Service Kits

Include all parts normally required for in-service maintenance:

3/8"	Basic Valve with standard
	service L-PilotsK352076

Key	3/8" Valve	3/4" Valve	Description
	_	1/2" Tap K053067	
1	3/8" Tap K053019	3/4" Tap K053069	Body (N.C.)
	1/2" Tap K053157	1" Tap K053221	
	_	3/4" Tap K053065	
1A	3/8" Tap K053018	3/4" Tap K053070	Body (N.O.)
	1/2" Tap K053064	1" Tap K053219	
2	K212001	K212002	Upper Piston Assy
3*	H13648	H13728	Seal
4*	K41RB72211	H13676	O-Ring

Key	3/8" Valve	3/4" Valve	Description
5	K493002	K493009	Stem
6	K202001	K202002	Lower Piston Assy.
7*	K41RB72210	H13676	O-Ring
8	H17811	H17813	Washer (2)
9	H06326	H06332	Stop Nut (2)
10	K103035	K103053	Bottom Cap (N.C.)
10A	K092020	K092034	Bottom Cap Assy. (N.O.)
11	K473014	K473015	Spring
12*	K183049	K183057	Gasket
13	K563016	K563021	Adapter
14*	K41RB72121	K41RB72221	O-Ring

^{*} Parts included in seal kit



D135

8

EZ

Viking Xtreme

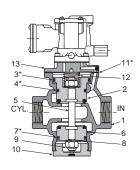
ADEX

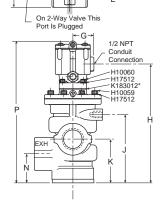
NOTE: For normal valve operation, override must be in "out" position.

Dimensions

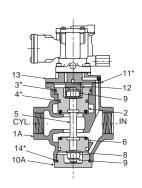
Vav	1-14" Body		
Key	Inch	mm	
Н	9.30	236	
J	5.34	136	
K	3.44	87	
N	2.31	59	
Р	11.14	283	
Q	4.56	116	

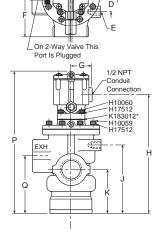
Normally Closed





Normally Open





Service Kits

Includ e all parts normally required for in-service maintenance:

1-1/4" Basic Valve with standard

Key	1-1/4" Valve	Description
	1" Tap K053111	
1	1-1/4" Tap K053112	Body (N.C.)
	1-1/2" Tap K053113	
	1" Tap K053114	
1A	1-1/4" Tap K053115	Body (N.O.)
	1-1/2" Tap K053116	
2	K313029	Upper Piston Assy
3*	H13752	O-Ring
4*	H13728	Seal

Key	1-1/4" Valve	Description	
5	K493016	Stem	
6	K313028	Lower Piston	
7*	H13728	Seal	
8	H17817	Washer	
9	H06338	Stop Nut	
10	K092046	Bottom Cap (N.C.)	
10A	K103061	Bottom Cap (N.O.)	
11*	K183058	Gasket	
12	K473016	Spring	
13	K012003	Adapter	
14*	K41RB72143	O-Ring	

^{*} Parts included in seal kit

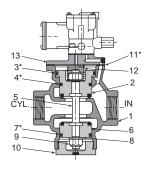


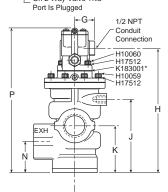
ΕZ

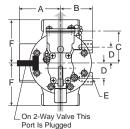
В

On 2-Way Valve This

Normally Closed

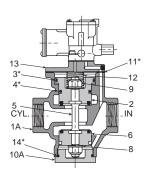


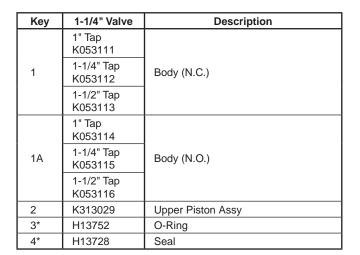




1/2 NPT Conduit Connection H17512 K183001

Normally Open





Exhaust Pressure

Top view indicates flow through 3-Way valve with coil de-energized.

NOTE: For normal valve operation, override must be in "out" position.

Dimensions

Key	1-1/4"	Body	
Key	Inch	mm	
Α	3.00	76	
В	2.25	57	
С	1.34	34	
D	1.19	30	
E	1/2-13 UNC 3/4 Deep		
F	3.13	80	
G	1.50	38	
Н	9.02	229	
J	5.34	136	
K	3.44	87	
N	2.31	59	
Р	10.45	265	
Q	4.56	116	

Service Kits

Include all parts normally required for in-service maintenance:

1-1/4" Basic Valve with continuous duty L-Pilot......K352080

Key	1-1/4" Valve	Description	
5	K493016	Stem	
6	K313028	Lower Piston	
7*	H13728	Seal	
8	H17817	Washer	
9	H06338	Stop Nut	
10	K092046	Bottom Cap (N.C.)	
10A	K103061	Bottom Cap (N.O.)	
11*	K183058	Gasket	
12	K473016	Spring	
13	K012003	Adapter	
14*	K41RB72143	O-Ring	

^{*} Parts included in seal kit



D137

EZ

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Viking Xtreme

ADEX

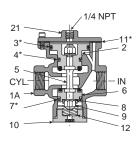
Top view indicates flow through 3-Way valve.

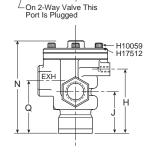
NOTE: For normal valve operation, override must be in "out" position.

Dimensions

Key	3/8" Body		3/4" Body		1-1/4" Body	
Rey	Inch	mm	Inch	mm	Inch	mm
Н	3.19	81	3.75	95	5.34	136
J	1.88	48	2.44	62	3.44	87
М	1.44	37	1.78	45	2.66	67
N	4.22	107	5.31	135	7.19	183
Q	2.31	59	3.09	78	4.56	116

Normally Closed



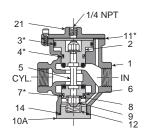


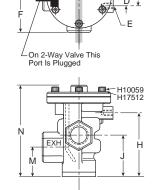
Normally Open

ΕZ

В

Z





Service Kits

Include all parts normally required for in-service maintenance:

3/8" Basic Valve	K352073
3/4" Basic Valve	K352074
1-1/4" Basic Valve	K352075

Key	3/8" Valve	3/4" Valve	1-1/4" Valve	Description
	ı	1/2" Tap K053075	1" Tap K053111	
1	3/8" Tap K053022	3/4" Tap K053076	1-1/4" Tap K053112	Body (N.O.)
	1/2" Tap K053023	1" Tap K053220	1-1/2" Tap K053113	
		1/2" Tap K053077	1" Tap K053114	
1A	3/8" Tap K053025	3/4" Tap K053078	1-1/4" Tap K053115	Body (N.C.)
	1/2" Tap K053026	1" Tap K053218	1-1/2" Tap K053116	
2	K212001	K212002	K313029	Upper Piston Assy
3*	H13648	H13728	H13752	Seal
4*	H14510	H13676	H13728	Seal

Key	3/8" Valve	3/4" Valve	1-1/4" Valve	Description	
5	K493002	K493009	K493016	Stem	
6	K202001	K202002	K313028	Lower Piston Assy.	
7*	H13499	H13676	H13728	Seal	
8	H17811	H17813	H17817	Washer (2)	
9	H06326	H06332	H06338	Stop Nut (2)	
10	K092020	K092034	K092046	Bottom Cap (N.C.)	
10A	K103035	K103053	K103061	Bottom Cap (N.O.)	
11*	K183049	K183057	K183058	Gasket	
12	K473014	K473015	K473016	Spring	
14*	K41RB72121	K41RB72221	K41RB72143	O-Ring	
21	K123018	K123021	K123024	Cover	

^{*} Parts included in seal kit

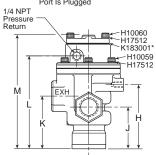


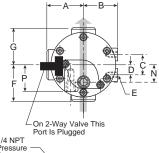


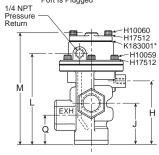
Normally Closed

21

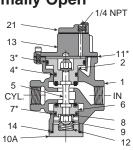
1/4 NPT







Normally Open



3/4" Valve 1-1/4" Valve Key 3/8" Valve Description 1/4" Tap 1/2" Tap 1" Tap K053011 K053067 K053143 3/4" Tap 1-1/4" Tap 1 Body (N.O.) K053069 K053110 1/2" Tap 1" Tap 1-1/2" Tap K053157 K053221 K053146 1/4" Tap 1/2" Tap 1" Tap K053010 K053065 K053159 1-1/4" Tap 3/4" Tap 1A Body (N.C.) K053144 K053070 1/2" Tap 1-1/2" Tap 1" Tap K0530<u>64</u> K053219 K053145 K212001 K212002 K313029 Upper Piston Assy 3* H13648 H13752 H13728 Seal H13529 H13676 H13728 Seal

Key	3/8" Valve	3/4" Valve	1-1/4" Valve	Part
5	K493002	K493009	K493016	Stem
6	K202001	K202002	K313028	Lower Piston Assy.
7*	H13499	H13676	H13728	Seal
8	H17811	H17813	H17817	Washer (2)
9	H06326	H06332	H06338	Stop Nut (2)
10	K092020	K092034	K092046	Bottom Cap Assy. (N.C.)
10A	K103035	K103053	K103061	Bottom Cap (N.O.)
11*	K183049	K183057	K183058	Gasket
12	K473014	K473015	K473016	Spring
13	K563016	K563021	K563027	Adapter
14*	K41RB72121	K41RB72221	K41RB72143	O-Ring
21	K323027	K323027	Not used	Cover

^{*} Parts included in seal kit



Exhaust Pressure

Top view indicates flow through 3-Way valve.

NOTE: For normal valve operation, override must be in "out" position.

Dimensions

	3/8" Body 3		3/4"	3/4" Body		1-1/4" Body	
Key	Inch	mm	Inch	mm	Inch	mm	
Α	1.56	40	2.13	54	3.00	76	
В	1.50	38	1.94	49	2.25	57	
С	1.13	29	1.13	29	2.38	60	
D	.56	14	.56	14	1.19	30	
E	3/8-16UNC 7/16" deep		3/8-16UNC 9/16" deep		1/2–13UNC 3/4" deep		
F	1.75	44	2.25	57	3.13	79	
G	1.56	40	2.13	54	3.13	79	
Н	3.19	81	3.75	95	5.34	136	
J	1.88	48	2.44	62	3.44	87	
K	2.31	59	3.09	78	4.56	116	
L	4.34	110	5.38	137	7.31	186	
M	5.31	135	6.34	161	7.88	200	
N	Left of center				On center		
IN .	.53	13	1.00	25	On center		
Q	1.44	37	1.78	45	2.31	59	

Service Kits

Include all parts normally required for in-service maintenance:

3/8" Basic Valve	K352031
3/4" Basic Valve	K352056
1-1/4" Basic Valve	K352083

Z

ADEX

EZ

8

