



Model 5500
PILOT OPERATED
Pressure Vent with Pipe-Away

OBJECTIVE

The Pilot Operated Model 5500 conservation pressure vent with pipe-away is intended for use where pressure relief is required and the relieving vapors must be piped away and not emitted into the atmosphere. May also be used for in-line vacuum relief.

TECHNIQUE

A pallet in the vent housing opens and closes permitting relief necessary, under working conditions, to avoid tank damage. A flanged side connection is provided for easy pipe-away of vapors, eliminating their emission into the atmosphere, and allowing compliance with applicable regulations.

CONSTRUCTION

Body Material: Available in Aluminum, Carbon Steel or 316 SST.

Numerous Sizes. Available in Sizes 2" through 12". CS & SST vents have Raised Face Flange, Aluminum vents have Flat Face Flange to mate with ASME150# flange connections.

Diaphragm Case Material: Available in Carbon Steel or Stainless Steel.

Diaphragm Material: FKM - Standard; also available Buna-N, EPDM or FEP-TFE.

Pilot Body Material: 316SST.

Pilot Seat & Seals (o-rings): FKM - Standard; also available Buna-N, EPDM, FFKM 1 or FFKM 2.

Pilot (Sensing) Diaphragm: FEP-TFE.

SPECIAL FEATURES

Easy Inspection. The Model 5500 incorporates the same rugged design found in all Valve Concepts venting devices - they're made to last. The main valve seat can easily be inspected without affecting the set point. The pilot assembly uses standard o-rings. No special seal diaphragm or proprietary molded elastomers. Maintenance is easy and less expensive.

Maintains Accurate Settings. The standard minimum setting is 1.2 inches WC on all sizes. Maximum pressure setting is 15 psig. A certified test certificate is included with each vent verifying the accuracy.

Condensate Drainage. Self-draining housing body and drip rings keep condensate away from seating surfaces, preventing freezing, binding and clogging.

Air-Cushioned Seating. Air-cushion seating provides tight sealing to reduce evaporation losses. The pallets have outer guiding and center stabilizing stem to provide self alignment and tight seating.

MATERIALS OF CONSTRUCTION				
Series	Housing	Trim	Diaphragm Cases	Tube & Fittings
5500CS	CS	316 SST	CS	CS
5500SST	316 SST	316 SST	SST	SST
5500A	Aluminum	Aluminum	CS	CS

STANDARD/GENERAL SPECIFICATIONS

Spring Ranges:

PRESSURE RANGE	
in WC	(mbar)
1.2" to 2.0" *	(2.9 to 4.9) *
2.1" to 12.0"	(4.9 to 29.9)
12.1" to 18.0"	(30.0 to 44.8)
18.1" to 36.0"	(44.9 to 89.4)
36.1" to 41.7"	(89.5 to 103.5)
41.8" to 86.0"	(103.6 to 214)
PSIG	(Barg)
3.2 to 15.0 psig	(0.22 to 1.03 bar)

* Pressure range 1.2" to 4.0" WC require external air assist to the pilot.

Diaphragm Temperature Limits:

FEP-TFE:
-400° to 400° F (-240° to 204°C)

FKM (Fluorocarbon Elastomer):
-20° to 400° F (-28° to 204°C)

Buna-N (Nitrile-NBR):
-30° to 200° F (-34° to 93°C)

EPDM (Ethylene Propylene):
-40° to 225° F (-40° to 107°C)

Seat & Seal Materials Temperature Limits:

FKM (Fluorocarbon Elastomer):
-15° to 300° F (-26° to 149° C)

Buna-N (Nitrile-NBR):
-40° F to 212° F (-40° C to 100° C)

EPDM (Ethylene Propylene):
-55° F to 212° F (-48° C to 100° C)

FFKM 1 (Perfluoroelastomer):
-22° F to 400° F (-30° C to 204° C)

FFKM 2 (Perfluoroelastomer):
-40° F to 400° F (-40° C to 204° C)

Painting: Standard: Exterior coating will be a combination of Cashco Paint Specs #S-1777 epoxy and #S-1743 powder coated. Tubing, fasteners, seat surfaces - corrosion resistant parts excluded.

Alternate Paint: See Opt-95OS.

OPTION SPECIFICATIONS

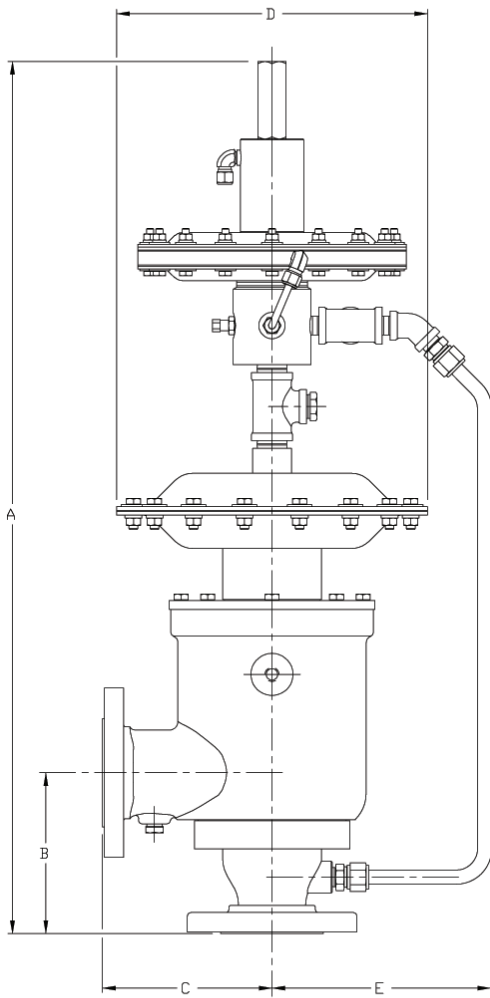
ELECTRIC TRACE - Electric heat tape is wrapped around external surface of the vent body. A thermal insulation jacket is secured over the tape and vent body to minimize heat loss. Commonly used to prevent the formation of ice during freezing conditions.

STEAM TRACE - Copper tubing is wrapped around the external surface of the vent body. A thermal insulation jacket is secured over the tubing and vent body to minimize heat loss. Commonly used to prevent the formation of ice during freezing conditions.

Option -40: NACE CONSTRUCTION. Internal wetted portions meet NACE standard MR0175, when exterior of the vent is not directly exposed to a sour gas environment, buried, insulated or otherwise denied direct atmospheric exposure.

Option -95OS: OFFSHORE installations. Coating of all exterior surfaces will be per Cashco Paint Specs #S-1777 epoxy. Tubing, fasteners, seat surfaces - corrosion resistant parts excluded. Painting of tubing and fasteners optional upon special request.

DIMENSIONS



ENGLISH Units - in Aluminum, Carbon Steel & Stainless Steel						Weight - lbs.	
SIZE In	A	B	C	D (diam)	E	Alum	CS / SST
2" x 2"	31.00	5.70	6.00	11.00	7.75	44	88
2" x 3"	31.00	6.25	6.19	11.00	7.75	46	92
3" x 3"	33.12	6.91	6.50	11.00	7.75	52	105
3" x 4"	33.12	7.41	6.50	11.00	7.75	54	108
4" x 4"	39.88	8.78	8.00	16.50	9.25	80	160
4" x 6"	39.88	9.78	8.00	16.50	9.25	82	164
6" x 6"	41.50	10.34	9.00	16.50	9.25	103	207
6" x 8"	41.50	11.53	9.00	16.50	9.25	109	218
8" x 10"	45.88	13.72	11.00	23.81	12.94	179	358
10" x 12"	48.50	15.59	12.25	23.81	13.25	221	441
12" x 14"	54.75	21.18	14.00	23.81	13.38	268	536

METRIC Units - mm Aluminum, Carbon Steel & Stainless Steel						Weight - kg.	
SIZE (DN)	A	B	C	D (diam)	E	Alum	CS / SST
(50) x (50)	787	145	152	279	197	20	40
(50) x (80)	787	159	157	279	197	21	42
(80) x (80)	841	175	165	279	197	24	47
(80) x (100)	841	188	165	279	197	25	49
(100) x (100)	1013	223	203	419	235	36	73
(100) x (150)	1013	248	203	419	235	37	75
(150) x (150)	1054	263	229	419	235	47	94
(150) x (200)	1054	293	229	419	235	49	99
(200) x (250)	1165	348	279	605	329	81	163
(250) x (300)	1232	396	311	605	336	100	200
(300) x (350)	1391	538	356	605	340	122	243

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5500 Series PRODUCT CODE

02/15/16

Last 6 Characters reserved for SPQ drawing numbers assigned by Cashco Inc.
(Format as - # # # # #)



POSITION 3 - INLET SIZE			
INCH	CODE	DIN FLANGE DN (rating)	CODE
2"	2	50 (PN16)	H
3"	3	80 (PN16)	J
4"	4	100 (PN16)	K
6"	6	150 (PN16)	L
8" *	8	200 * (PN10)	M
		200 * (PN16)	T
10" *	A	250 * (PN10)	N
		250 * (PN16)	V
12" *	B	300 * (PN10)	P
		300 * (PN16)	W

POSITION 4 - OUTLET SIZE			
INCH	CODE	DIN FLANGE DN (rating)	CODE
2"	2	50 (PN16)	H
3"	3	80 (PN16)	J
4"	4	100 (PN16)	K
6"	6	150 (PN16)	L
8"	8	200 (PN10)	M
		200 (PN16)	T
10" *	A	250 * (PN10)	N
		250 * (PN16)	V
12" *	B	300 * (PN10)	P
		300 * (PN16)	W
14" *	C	350 * (PN10)	R
		350 * (PN16)	Y

POSITION 5 - BODY / TRIM MATERIALS		
Material	W/O Flame-screen	W/Flamescreen
	CODE	CODE
ALUM/ALUM *	A	B
ALUM/SST *	K	L
CS/SST	C	D
SST/SST	S	T

* Alum vents have Flat Face flange
CS & SST vents have Raised Face flange

* 8" inlet only available w/10" outlet.
* 10" inlet only available w/12" outlet.
* 12" inlet only available w/14" outlet.

POSITION 8 - PRESSURE RANGES	Std. Constr.	W/ AIR ASSIST
Spring Range	CODE	CODE
1.2" - 2.0" WC (2.9 - 4.9 mbar)	--	L
2.1" - 12.0" WC (4.9 - 29.9 mbar)	3	C
12.1" - 18.0" WC (30.0 - 44.8 mbar)	6	D
18.1" - 36" WC (44.9 - 89.4 mbar)	7	E
36.1" - 41.7" WC (89.5 - 103.5 mbar)	8	F
41.8" - 86.0" WC (103.6 - 214 mbar)	9	J
3.2 - 15.0 psig (0.22 - 1.03 bar)	H	K

* Pressure range 1.2" to 4.0" WC require external air assist to the pilot.

POSITION 9 - PILOT SEAT / MAIN VALVE SEALS / DIAPHRAGM	
Materials	CODE
Buna-N / Buna-N / Buna-N	B
FFKM 1 / FEP / FEP	C
EPDM / EPDM / EPDM *	E
Buna-N / FEP / FEP	J
FFKM 2 / FEP / FEP	K
FKM / FKM / FKM	V

* Not recommended for NACE Service

POSITION 11 - OPTIONS (Opt. 2 - 6 Pilot Exhaust to Main Valve Outlet)	Std Paint	Offshore Paint Opt-95OS
Sensing Configuration & Accessory Options	CODE	
Standard: Internal Sensing, Exhaust to Main Valve Outlet	0	W
OPT 1: Internal Sensing, Exhaust to Atmosphere	1	V
OPT 2: Remote Sensing	2	T
OPT 3: Internal Sensing, with Manual Blowdown Valve	3	S
OPT 4: Internal Sensing, with Backflow Preventer	4	N
OPT 5: Internal Sensing, with Backflow Preventer & Field Test Connection	5	R
OPT 6: Internal Sensing, with Rotometer to Purge Pilot Sense & Discharge Lines	6	P
OPT 7: Internal Sensing, Exhaust to Atmosphere with Rotometer to Purge Pilot Sense Line	7	M
OPT 8: Internal Sensing, Exhaust to Atmosphere with Backflow Preveter & Field Test Connection	8	9
OPT A: Internal Sensing, Exhaust to Atmosphere with Manual Blowdown Valve	A	B
OPT 10: Internal Sensing, Exhaust to Atmosphere with Backflow Preventer	D	J

POSITION 12 - ACCESSORY / CERTS				
OPTION	Certification			
	Std CODE	ATEX * CODE	PED * CODE	NACE CODE
None	0	A	E	1
Electric Trace	H	B	F	---
Steam Trace	S	D	K	---

* Forward Completed "EU" Application Recorder prior to quotation.
(Without Recorder- Processing of Purchase Order will be delayed).
PED includes both ("SEP" & "CE") Compliance -
Ref to Directive 2014/68/EU. Contact Cashco for Assistance.

Cashco, Inc.
P.O. Box 6
Ellsworth, KS 67439-0006
PH (785) 472-4461
Fax. # (785) 472-3539
www.cashco.com
email: sales@cashco.com
Printed in U.S.A. 5500-TB

Cashco GmbH
Handwerkerstrasse 15
15366 Hoppegarten, Germany
PH +49 3342 30968 0
Fax. No. +49 3342 30968 29
www.cashco.com
email: germany@cashco.com

Cashco do Brasil, Ltda.
Al.Venus, 340
Indaiatuba - Sao Paulo, Brazil
PH +55 11 99677 7177
Fax. No.
www.cashco.com
email: brazil@cashco.com