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Annex to IECEx Certificate of Conformity

IECEx TRC 10.0004X issue No.:3

Routine Tests
1. Routine (100 %) hydrostatic testing (at 645 psi / 44.5 bar) as per 'Test Procedure for Vaporizing Pressure Regulator', drawing 113109.

Special conditions for manufacture
1. 150W, 200W and 250W models must be fitted with a thermal cut out (operates at 184°C).

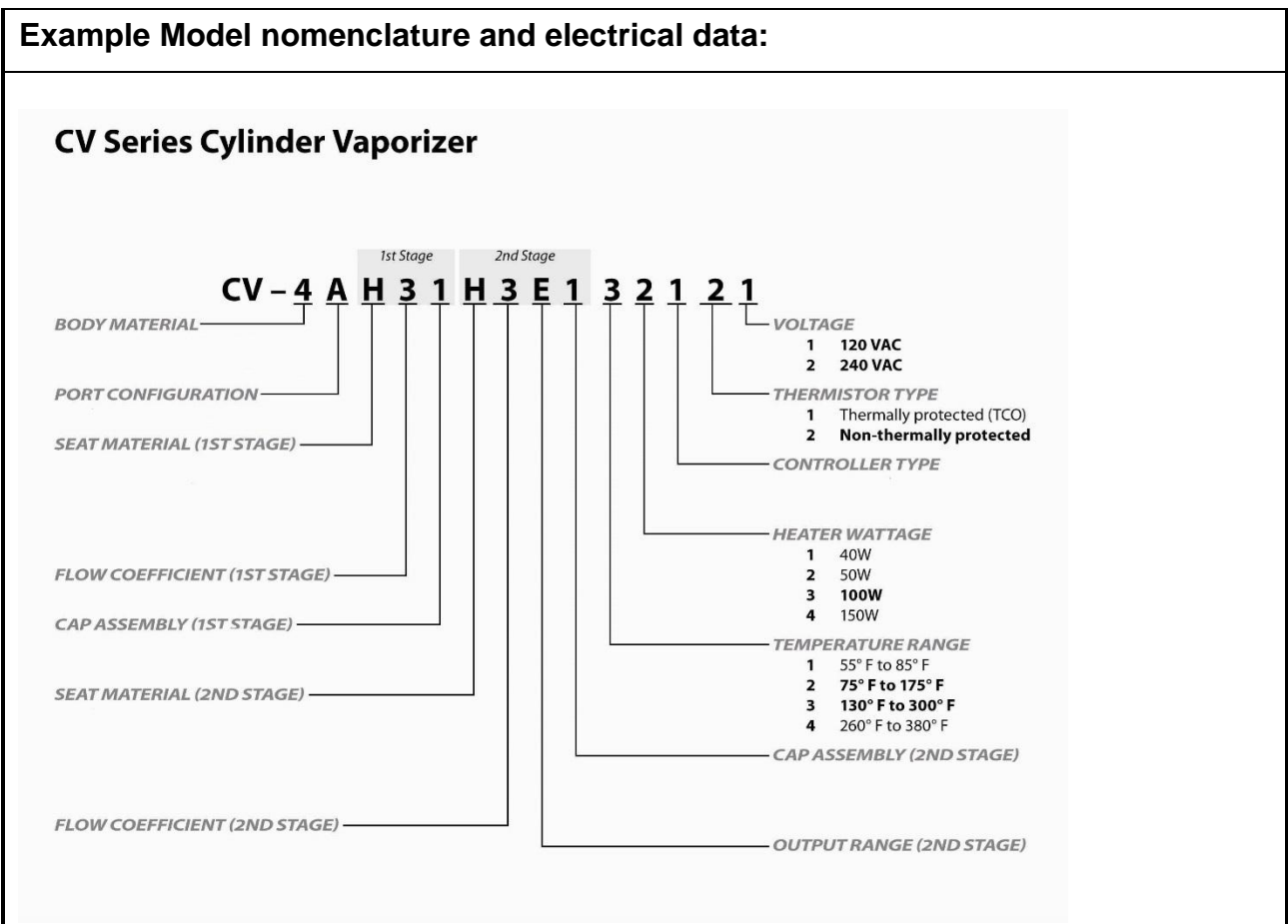
Manufacturer's Documents			
Title:	Drawing No.:	Rev. Level:	Date:
HPR-2 Heater Block Fitting	115845-ATEX	-	2019-08-01
AC Heater	G115829-ATEX	-	2018-10-18
Heater Block Assembly	115844-[]-ATEX	A	2016-10-20
Label AC Controller	115884	-	2016-05-03
HPR-2 Vaporizing Regulator Assy ATEX	115852-ATEX	A	2018-10-19
HPR-2XW Vaporizing Regulator Assembly ATEX	115856-ATEX	A	2018-10-19
CV Vaporizing Regulator Assembly ATEX	115858-ATEX	A	2018-10-19
CV2 Vaporizing Regulator Assembly ATEX	115880-ATEX	A	2018-10-19
DHR Vaporizing Regulator Assembly ATEX	115860-ATEX	A	2018-10-19
DH2 Vaporizing Regulator Assembly ATEX	115877-ATEX	A	2018-10-19
HBP Vaporizing Regulator Assembly ATEX	115865-ATEX	A	2018-10-19
Label-Vaporizing Regulator ATEX CERT	115854	A	2016-09-09
115791 (4 sheets)	115791_pcbart	1.4	2017-03-23
115791	115791_sch	1.4	2017-03-07
Ground Screw	116156	-	2016-10-04
HPR-2 Series Condulet Reducer 3/4 NPT / 1/2 NPT	046500-ATEX	-	2015-09-22
Condulet, Machined, ATEX	109819-ATEX	A	2018-10-19
Installation Manual for Vaporizing Regulator (15 sheets)	113117	F	2020-03-31
Service Assembly Manual for Vaporizing Regulators (5 sheets)	108727	F	2020-03-31
Test Procedure for Vaporizing Pressure Regulator (4 sheets)	113109	E	2018-07-19
Screw, Socket Set	018119	B	2010-06-11
Plug, Ground Leg, ATEX, IEC	046403-ATEX	A	2010-06-29
Cap, Condulet, ATEX	109323-ATEX	*	2003-09-03
Label, Temperature, Wiring, Porting ATEX, IEC	113144	A	2010-06-10

* Denotes information not provided by manufacturer

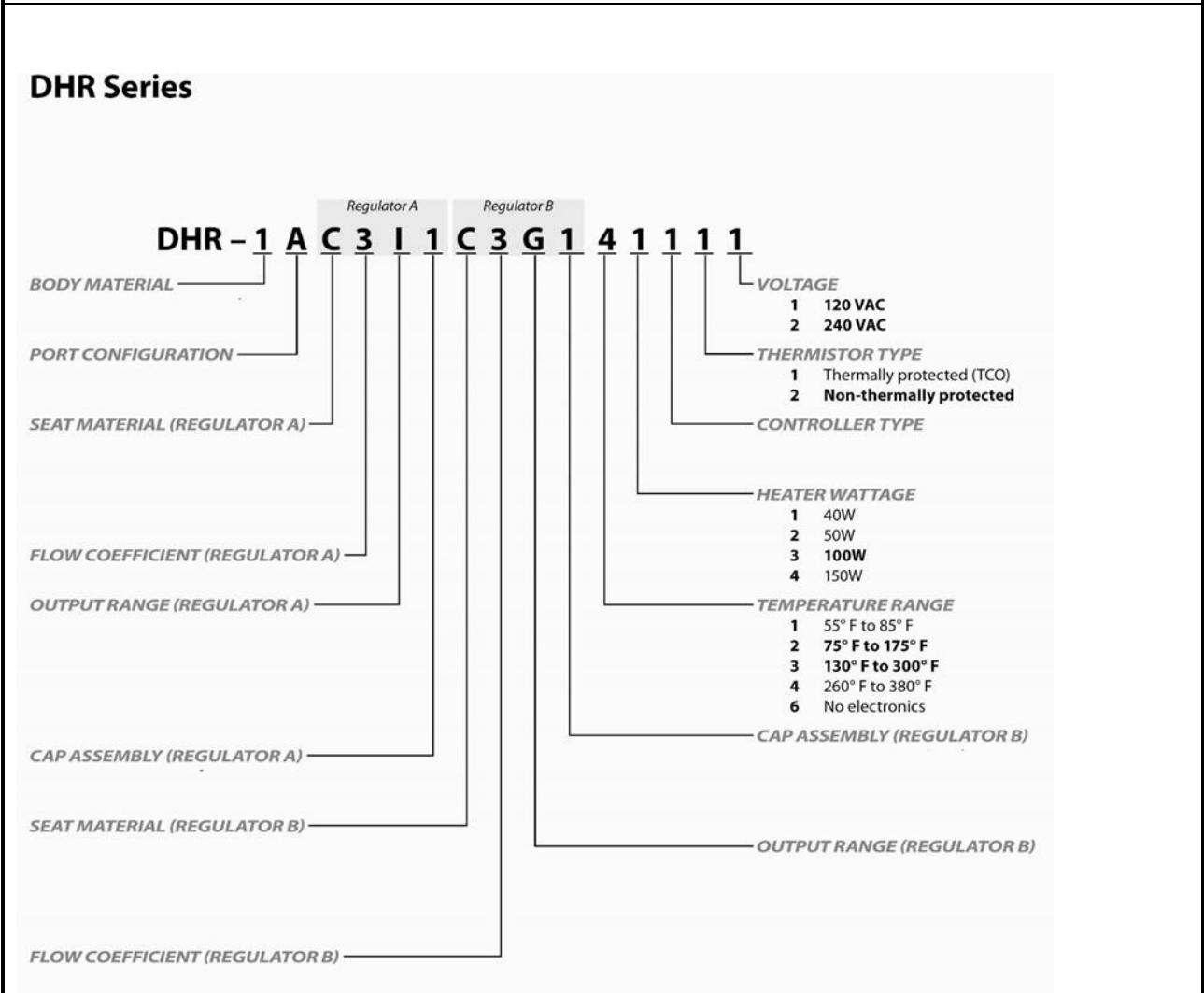


Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

Example Model nomenclature and electrical data:

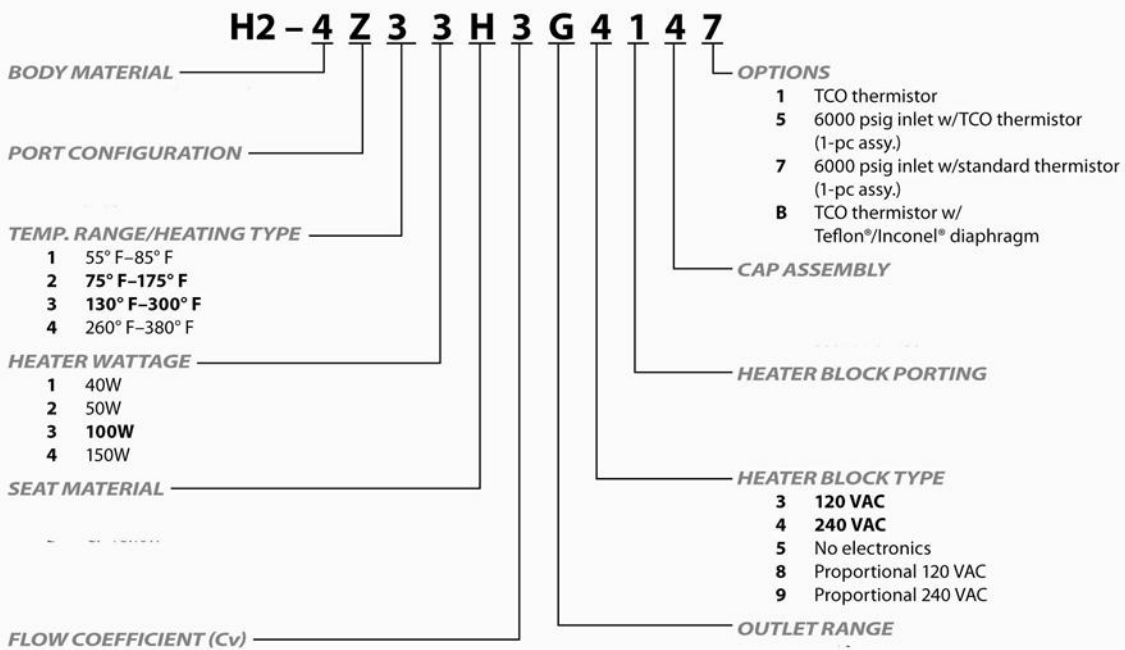


Example Model nomenclature and electrical data continued:

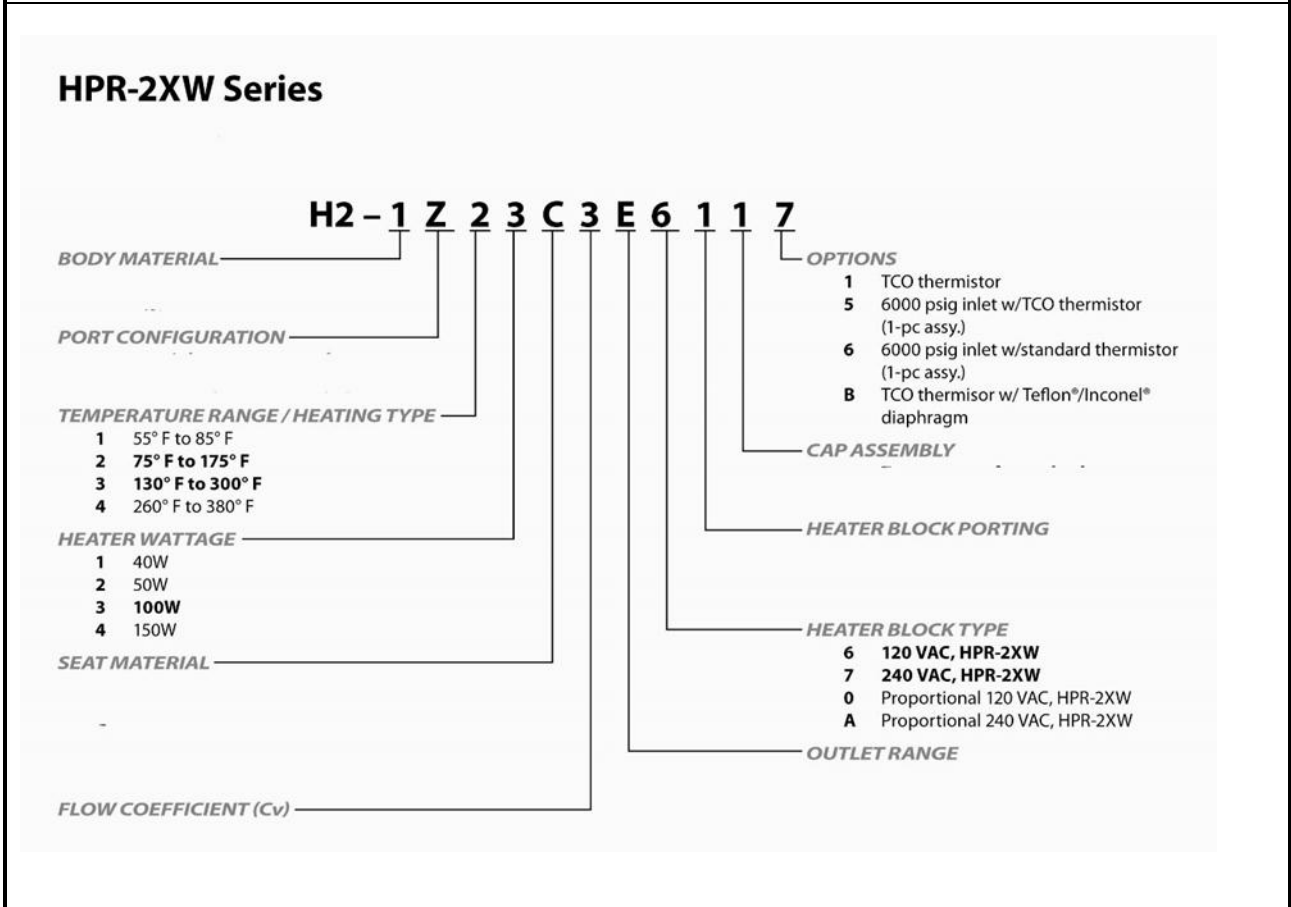


Example Model nomenclature and electrical data continued:

HPR-2 Series



Example Model nomenclature and electrical data continued:





Example Model nomenclature and electrical data continued:

DH2 Series

DH2- [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] []	
	VOLTAGE
BODY MATERIAL	1 - 110 VAC
316L SS - 1	2 - 240 VAC
MONEL R405 - 4	
HASTELLOY C-276 - 6	
	THERMISTOR TYPE
	1 - THERMALLY PROTECTED (TCO)
PORT CONFIGURATION	2 - NON-THERMALLY PROTECTED
ONE INLET AND ONE OUTLET PORT - A	
	CONTROLLER TYPE
PORT TYPE	1 - ON / OFF
1/8" FNPT (ALL PORTS) - 0	2 - PROPORTIONAL
1/4" FNPT (ALL PORTS) - 1	
	HEATER WATTAGE
SEAT MATERIAL (REGULATOR A)	1 - 40 WATTS
TEFZEL - A	2 - 50 WATTS
PCTFE - H	3 - 100 WATTS
PEEK - Q	4 - 150 WATTS (TCO REQUIRED)
	8 - 200 WATTS (TCO REQUIRED)
FLOW COEFFICIENT (Cv) (REGULATOR A)	9 - 250 WATTS (TCO REQUIRED)
0.025 - C	
0.06 - 3	
0.2 - 5	
	TEMPERATURE RANGE
OUTLET RANGE (REGULATOR A)	1 - 55 F - 85 F (13 C - 29 C)
0 - 10 PSIG - C	2 - 75 F - 175 F (24 C - 80 C)
0 - 25 PSIG - D	3 - 130 F - 300 F (54 C - 149 C)
0 - 50 PSIG - E	4 - 260 F - 380 F (127 C - 194 C)
0 - 100 PSIG - G	
0 - 250 PSIG - I	
0 - 500 PSIG - J	
0 - 750 PSIG - W	
(T-HANDLE ONLY) 0 - 1000 PSIG - K	
	CAP ASSEMBLY (REGULATOR B)
CAP ASSEMBLY (REGULATOR A)	1 - TAMPER PROOF, S.S.
TAMPER PROOF, S.S. - 1	4 - TAMPER PROOF, PANEL MOUNT, S.S.
TAMPER PROOF, PANEL MOUNT, S.S. - 4	7 - TAMPER PROOF, CAPTURED VENT, S.S.
TAMPER PROOF, CAPTURED VENT, S.S. - 7	L - T-HANDLE, S.S.
T-HANDLE, S.S. - L	
	OUTLET RANGE (REGULATOR B)
SEAT MATERIAL (REGULATOR B)	C - 0 - 10 PSIG
TEFZEL - A	D - 0 - 25 PSIG
PCTFE - H	E - 0 - 50 PSIG
PEEK - Q	G - 0 - 100 PSIG
	I - 0 - 250 PSIG
	J - 0 - 500 PSIG
	W - 0 - 750 PSIG
	K - 0 - 1000 PSIG (T-HANDLE ONLY)
	FLOW COEFFICIENT (Cv) (REGULATOR B)
	C - 0.025
	3 - 0.06
	5 - 0.2



Example Model nomenclature and electrical data continued:

CV2 Series

CV2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																VOLTAGE
BODY MATERIAL																1 - 110 VAC
316L SS - 1																2 - 240 VAC
MONEL R405 - 4																
HASTELLOY C-276 - 6																THERMISTOR TYPE
																1 - THERMALLY PROTECTED (TCO)
PORT CONFIGURATION																2 - NON-THERMALLY PROTECTED
ONE INLET AND ONE OUTLET PORT - A																
PROCESS PORT TYPE																CONTROLLER TYPE
1/8" FNPT - 0																1 - ON / OFF
1/4" FNPT - 1																2 - PROPORTIONAL
SEAT MATERIAL (1ST STAGE)																HEATER WATTAGE
TEFZEL - A																1 - 40 WATTS
PCTFE - H																2 - 50 WATTS
PEEK - Q																3 - 100 WATTS
																4 - 150 WATTS (TCO REQUIRED)
FLOW COEFFICIENT (Cv) (1ST STAGE)																8 - 200 WATTS (TCO REQUIRED)
0.025 - C																9 - 250 WATTS (TCO REQUIRED)
0.06 - 3																
0.2 - 5																TEMPERATURE RANGE
CAP ASSEMBLY (1ST STAGE)																1 - 55 F - 85 F (13 C - 29 C)
TAMPER PROOF, S.S. - 1																2 - 75 F - 175 F (24 C - 80 C)
TAMPER PROOF, PANEL MOUNT, S.S. - 4																3 - 130 F - 300 F (54 C - 149 C)
TAMPER PROOF, CAPTURED VENT, S.S. - 7																4 - 260 F - 380 F (127 C - 194 C)
SEAT MATERIAL (2ND STAGE)																CAP ASSEMBLY (2ND STAGE)
TEFZEL - A																1 - TAMPER PROOF, S.S.
PCTFE - H																4 - TAMPER PROOF, PANEL MOUNT, S.S.
PEEK - Q																7 - TAMPER PROOF, CAPTURED VENT, S.S.
FLOW COEFFICIENT (Cv) (2ND STAGE)																OUTLET RANGE
0.025 - C																C - 0 - 10 PSIG
0.06 - 3																D - 0 - 25 PSIG
0.2 - 5																E - 0 - 50 PSIG
																G - 0 - 100 PSIG
																I - 0 - 250 PSIG
																J - 0 - 500 PSIG



Example Model nomenclature and electrical data continued:

HBP series

	HBP- X	X	X	X	X	X	X	X	X	X	X	X	X	
BODY MATERIALS														OTHER OPTIONS (CAN BE LEFT BLANK)
316L SST, SS DIAPHRAGM -1														1 - TCO THERMISTER
MONEL -4														
HASTELLOY C276 -6														CAP ASSEMBLY
316L SST, INCONEL DIAPHRAGM -C														-1 TAMPER PROOF SST (STANDARD)
														-4 TAMPER PROOF, PANEL MOUNT
PORTING CONFIGURATIONS														-7 TAMPER PROOF, CAPTURED VENT, SST
STANDARD -Z														-L BP6 TOPWORKS, SST
SEE DRAWING 102088 FOR PORTING STYLE														
														HEATER BLOCK PORTING
TEMPERATURE RANGE														-1 STD BLOCK 1/4 FNPT INLET, 1/8 FNPT OULET
55 F - 85 F (13 C - 29 C) -1														
75 F - 175 F (24 C - 80 C) -2														HEATER BLOCK TYPE
130 F - 300 F (54 C - 149 C) -3														-3 120VAC
260 F - 380 F (127 C - 194 C) -4														-4 230 VAC
														-6 120 VAC XW
HEATER WATTAGE														-7 230 VAC XW
40 WATTS -1														
50 WATTS -2														OUTPUT RANGE (PSIG)
100 WATTS -3														-C 0 - 10
150 WATTS (MUST HAVE TCO) -4														-D 0 - 25
200 WATTS (MUST HAVE TCO) -8														-E 0 - 50
250 WATTS (MUST HAVE TCO) -9														-G 0 - 100
														-I 0 - 250
SEAT MATERIALS														-J 0 - 500
CF PTFE -B														-K 0 - 1000
POLYIMIDE -C														-W 0 - 750
VITON -D														
HIGH DENSITY PTFE -I														FLOW COEFFICIENT (Cv)
KALREZ -K														-1 0.03
PEEK -Q														-3 0.06
														-5 0.2
														-7 0.3
														-C 0.025
														-E 0.04
														-I 0.005