

Features

- Unique double disc design with overtravel provides redundant sealing for leak tight shutoff
- Visual indication of open and shut position (Suffix "VI" & "C")
- Proof of closure switch 1 amp & visual indicator (Suffix "C")
- Silicon-free construction (Suffix "SF")
- For on-off control of fuel gas in commercial and industrial gas burners
- 1/8" NPT pipe taps with plugs for routine testing
- Optional flange adapters for ease of installation and service

Fluid

Fuel Gas

Construction

Valve Parts in Contact with Fluids	
Body	Aluminum
Seals and Disc	NBR
Core Tube	305 Stainless Steel
Core Guide	POM
Rider Ring	PTFE
Core and Plugnut	430F Stainless Steel
Springs	302 Stainless Steel
Shading Coil	Copper
Pipe Plug	Zinc-Plated Steel

Electrical

	Standard Coil and Class of Insulation	Watt Rating and Power Consumption				Ambient Temp. °F	Spare Coil Family	
		DC Watts	AC				General Purpose	
			Watts	VA Holding	VA Inrush		AC	DC
General Purpose	F	35.1	20	43	240	-40 to 125	099257	206410
	H	35.1	-	-	-	-40 to 132	-	236825
	H	-	20	43	240	-40 to 140	222345	-
Watertight	F	15.8	20.1	48	240	-40 to 125	272610	501695
	H	15.8	20.1	48	240	-40 to 140	272810	440162
Standard Voltages: 24, 120, 240 volts AC, 60 Hz (or 110, 220 volts AC, 50 Hz) 12, 24 volts DC.								
Optional High Ambient Temp: 140°F Class H coil with prefix HB (3/4" to 2" AC only), 140°F Class H coil with prefix HT (3/4" to 2" DC only) 132°F Class H coil with prefix HB (2" High flow to 3" DC Only)								

Solenoid Enclosures

General Purpose: RedHat metal Type 1 General Purpose housing has a 7/8" diameter hole to accept standard conduit hubs or connectors.

Add prefix JB to catalog number for a Junction Box construction with two 7/8" diameter knock-outs. (i.e. JB8214 265)

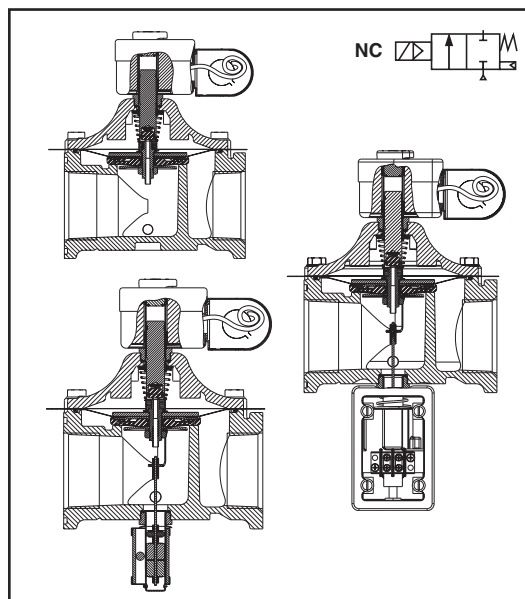
Watertight: RedHat II molded epoxy Type 1, 2, 3, 3S, 4 and 4X combination. General Purpose and Watertight solenoid enclosures with 1/2" conduit hub as standard.

Add prefix JKP to Watertight catalog number for a Watertight Junction Box. (i.e. JKP8214G266)

Valve Response Time

Opening Time: Less than 1 second

Closing Time: Less than 1 second



Approvals

UL listed to standard 429 "Electrically Operated Valves," Guide Y10Z, File MP618 Safety Shutoff Valves.

FM Approved to Class 7400 "liquid and gas safety shutoff valves." (Suffix VI and C only)

CSA Certified to:

- 1) Standard C22.2 No. 139 "Electrically Operated Valves," File 010381.
- 2) Automatic Gas Valves Z21.21 (6.5), C/I, File 112872.
- 3) Automatic Gas Safety Shutoff Valves (3.9), File 112872.

Specifications - Standard (English units)

Pipe Size (in)	Orifice Size (in)	Cv Flow Factor	Flow Capacity ^①	Fuel Gas Capacity ^①	Operating Pressure Differential (psi)		Max. Fluid Temp. °F		Catalog Number	Const. Ref.		Agency			Watt Rating/ Class of Coil Insulation		Approx. Shipping Weight (lbs)
			ft³/hr	Btu/hr	Min.	Max.	AC	DC		AC	DC	UL	FM	CSA	AC	DC	
GENERAL PURPOSE																	
3/4	1 5/8	11	593	593,200	0	5	125	-	8214 235	1	-	○	-	○	20/F	-	5.1
1	1 5/8	21	1132	1,132,300	0	5	125	-	8214 250	1	-	○	-	○	20/F	-	5.0
1 1/4	1 5/8	32	1726	1,725,500	0	5	125	-	8214 260	1	-	○	-	○	20/F	-	4.9
1 1/2	1 5/8	35	1887	1,887,200	0	5	125	-	8214 270	1	-	○	-	○	20/F	-	4.7
1 1/4 (High Flow)	2 3/32	36	1925	1,925,000	0	5	125	-	8214 265	2	-	○	-	○	20/F	-	6.9
1 1/2 (High Flow)	2 3/32	45	2406	2,406,000	0	5	125	-	8214 275	2	-	○	-	○	20/F	-	6.6
2	2 3/32	55	2941	2,940,500	0	5	125	-	8214 280	2	-	○	-	○	20/F	-	6.2
2 (High Flow)	3	75	4044	4,044,100	0	5	125	125	8214 285	3	16	○	-	○	20/H	35.1/F	13.1
2 1/2	3	104	5608	5,607,800	0	5	125	125	8214 290	3	16	○	-	○	20/H	35.1/F	12.6
3	3	105	5662	5,661,700	0	5	125	125	8214 240	3	16	○	-	○	20/H	35.1/F	11.7
WATERTIGHT																	
3/4	1 5/8	11	593	593,200	0	5	125	125	8214G236	4	4A	○	-	○	20.1/F	15.8/F	5.1
1	1 5/8	21	1132	1,132,300	0	5	125	125	8214G251	4	4A	○	-	○	20.1/F	15.8/F	5.0
1 1/4	1 5/8	32	1726	1,725,500	0	5	125	125	8214G261	4	4A	○	-	○	20.1/F	15.8/F	4.9
1 1/2	1 5/8	35	1887	1,887,200	0	5	125	125	8214G271	4	4A	○	-	○	20.1/F	15.8/F	4.7
1 1/4 (High Flow)	2 3/32	36	1925	1,925,000	0	5	125	125	8214G266	5	5A	○	-	○	20.1/F	15.8/F	6.9
1 1/2 (High Flow)	2 3/32	45	2406	2,406,000	0	5	125	125	8214G276	5	5A	○	-	○	20.1/F	15.8/F	6.6
2	2 3/32	55	2941	2,940,500	0	5	125	125	8214G281	5	5A	○	-	○	20.1/F	15.8/F	6.2
○ = Safety Shutoff Valve. ① 1" W.C. Drop @ 2" W.C. Inlet Pressure, 1,000 Btu/cu.ft. or more, 0.64 Specific Gravity Gas.																	

○ = Safety Shutoff Valve. ① 1" W.C. Drop @ 2" W.C. Inlet Pressure, 1,000 Btu/cu.ft. or more, 0.64 Specific Gravity Gas.

Specifications - Standard (Metric units)

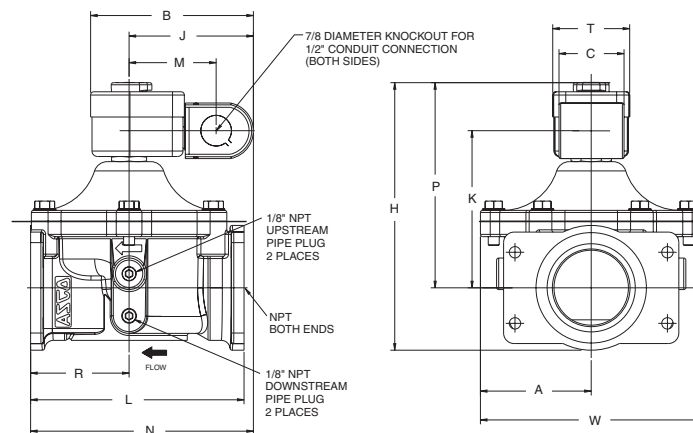
Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor	Flow Capacity ① (m³/hr)	Fuel Gas Capacity ① Btu/hr	Operating Pressure Differential (bar)		Max. Fluid Temp. °C		Catalog Number	Const. Ref.		Agency			Watt Rating/ Class of Coil Insulation		Approx. Shipping Weight (kgs)
					Min.	Max.	AC	DC		AC	DC	UL	FM	CSA	AC	DC	
GENERAL PURPOSE																	
3/4	41	9.4	17	593,200	0	0.3	52	-	8214 235	1	-	○	-	○	20/F	-	2.3
1	41	17.9	32	1,132,300	0	0.3	52	-	8214 250	1	-	○	-	○	20/F	-	2.3
1 1/4	41	27.3	49	1,725,500	0	0.3	52	-	8214 260	1	-	○	-	○	20/F	-	2.2
1 1/2	41	29.9	53	1,887,200	0	0.3	52	-	8214 270	1	-	○	-	○	20/F	-	2.1
1 1/4 (High Flow)	53	30.7	55	1,925,000	0	0.3	52	-	8214 265	2	-	○	-	○	20/F	-	3.1
1 1/2 (High Flow)	53	38.4	68	2,406,000	0	0.3	52	-	8214 275	2	-	○	-	○	20/F	-	2.9
2	53	46.9	83	2,940,500	0	0.3	52	-	8214 280	2	-	○	-	○	20/F	-	2.8
2 (High Flow)	76	64.0	115	4,044,100	0	0.3	52	52	8214 285	3	16	○	-	○	20/H	35.1/F	6.0
2 1/2	76	88.7	159	5,607,800	0	0.3	52	52	8214 290	3	16	○	-	○	20/H	35.1/F	5.7
3	76	89.6	160	5,661,700	0	0.3	52	52	8214 240	3	16	○	-	○	20/H	35.1/F	5.3
WATERTIGHT																	
3/4	41	9.4	17	593,200	0	0.3	52	52	8214G236	4	4A	○	-	○	20.1/F	15.8/F	2.3
1	41	17.9	32	1,132,300	0	0.3	52	52	8214G251	4	4A	○	-	○	20.1/F	15.8/F	2.3
1 1/4	41	27.3	49	1,725,500	0	0.3	52	52	8214G261	4	4A	○	-	○	20.1/F	15.8/F	2.2
1 1/2	41	29.9	53	1,887,200	0	0.3	52	52	8214G271	4	4A	○	-	○	20.1/F	15.8/F	2.1
1 1/4 (High Flow)	53	30.7	55	1,925,000	0	0.3	52	52	8214G266	5	5A	○	-	○	20.1/F	15.8/F	3.1
1 1/2 (High Flow)	53	38.4	68	2,406,000	0	0.3	52	52	8214G276	5	5A	○	-	○	20.1/F	15.8/F	2.9
2	53	46.9	83	2,940,500	0	0.3	52	52	8214G281	5	5A	○	-	○	20.1/F	15.8/F	2.8
○ = Safety Shutoff Valve. ① 1" W.C. Drop @ 2" W.C. Inlet Pressure, 1,000 Btu/cu.ft. or more, 0.64 Specific Gravity																	

○ = Safety Shutoff Valve. ① 1" W.C. Drop @ 2" W.C. Inlet Pressure, 1,000 Btu/cu.ft. or more, 0.64 Specific Gravity

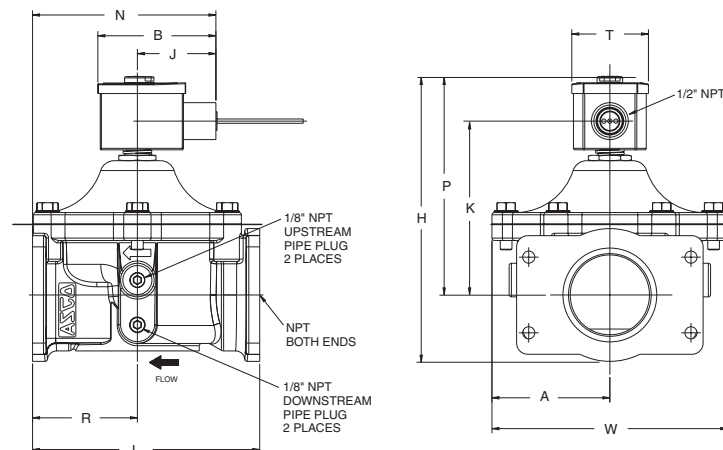
Dimensions inches (mm)

Const. Ref.		A	B	C	H	J	K	L	M	N	P	R	T	W
1	in	2.69	4.65	1.86	6.97	3.55	4.14	5.30	2.48	5.95	5.51	2.40	2.20	5.39
	mm	68	118	47	177	90	105	135	63	151	140	61	56	137
2	in	3.16	4.64	1.86	7.63	3.55	4.48	6.09	2.48	6.36	5.85	2.81	2.20	6.32
	mm	80	118	47	194	90	114	155	63	161	149	71	56	161
3	in	4.13	4.65	1.86	9.62	3.55	5.86	7.80	2.48	7.44	7.23	3.89	2.20	7.95
	mm	105	118	47	244	90	149	198	63	189	184	99	56	202
4	in	2.69	3.13	-	6.90	2.11	4.28	5.30	-	4.51	5.47	2.40	1.95	5.39
	mm	68.5	80	-	176	53	109	135	-	114	139	61	50	137
4A	in	2.69	3.72	-	6.90	2.27	4.4	5.30	-	4.67	5.5	2.40	2.45	5.39
	mm	68.5	94	-	176	58	111	135	-	119	139	61	62	137
5	in	3.16	3.13	-	7.63	2.11	4.66	6.09	-	4.92	5.85	2.81	206.	6.32
	mm	80	80	-	194	53	118	155	-	125	149	71	52	161
5A	in	3.16	3.72	-	7.6	2.27	4.7	6.09	-	5.08	5.8	2.81	2.45	6.32
	mm	80	94	-	193	58	119	155	-	129	148	71	62	161
16	in	4.13	5.49	1.86	10.3	4.13	5.71	7.8	3.31	8.03	7.91	3.89	3.31	6.32
	mm	105	147	47	261	105	145	198	84	204	201	99	84	161

Const. Ref. 1-3, 16



Const. Ref. 4, 4A, 5, 5A

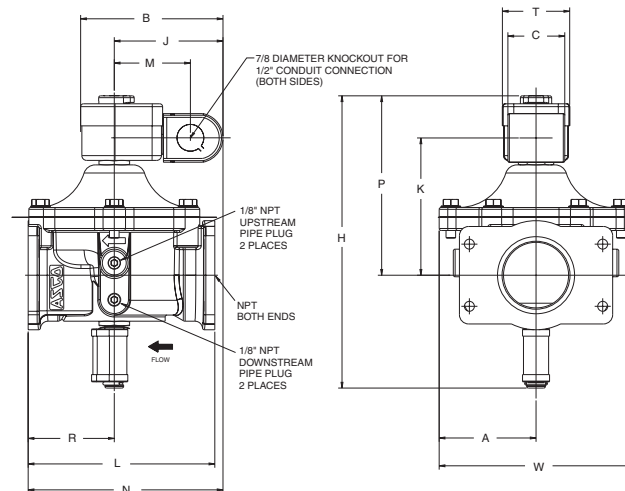


3/4" through 2" - AC constructions can be mounted with solenoid in any position above horizontal. DC constructions must be mounted with solenoid vertical and upright. 2" High Flow through 3" must be mounted with solenoid vertical and upright.

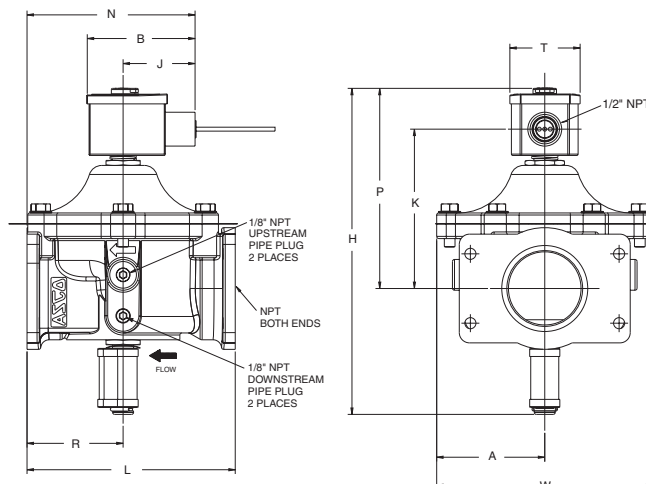
Dimensions inches (mm)

Const. Ref.		A	B	C	H	J	K	L	M	N	P	R	T	W
6	in	2.69	4.64	1.86	9.16	3.55	4.14	5.30	2.48	5.95	5.51	2.40	2.20	5.39
	mm	68	118	47	233	90	105	135	63	151	140	61	56	137
7	in	3.16	4.64	1.86	9.54	3.55	4.48	6.09	2.48	6.36	5.85	2.81	2.20	6.32
	mm	80	118	47	242	90	114	155	63	161	149	71	56	161
8	in	4.13	4.65	1.86	12.03	3.55	5.86	7.80	2.48	7.44	7.23	3.89	2.20	7.95
	mm	105	118	47	306	90	149	198	63	189	184	99	56	202
9	in	2.69	3.15	-	9.12	2.11	4.28	5.30	-	4.51	5.47	2.40	2.06	5.39
	mm	68	80	-	232	53	109	135	-	144	139	61	52	137
10	in	3.16	3.15	-	9.54	2.11	4.66	6.09	-	4.92	5.85	2.81	2.06	6.32
	mm	80	80	-	242	53	118	155	-	125	149	71	52	161

Const. Ref. 6-8



Const. Ref. 9, 10

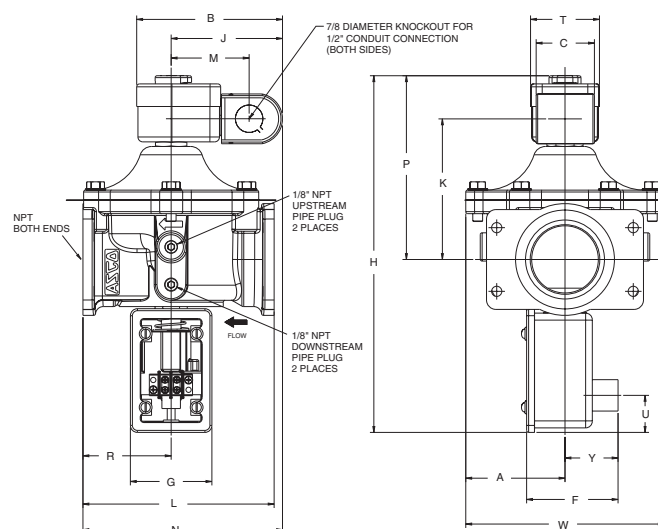


Visual Indication constructions (Suffix VI) must be mounted with solenoid vertical and upright.

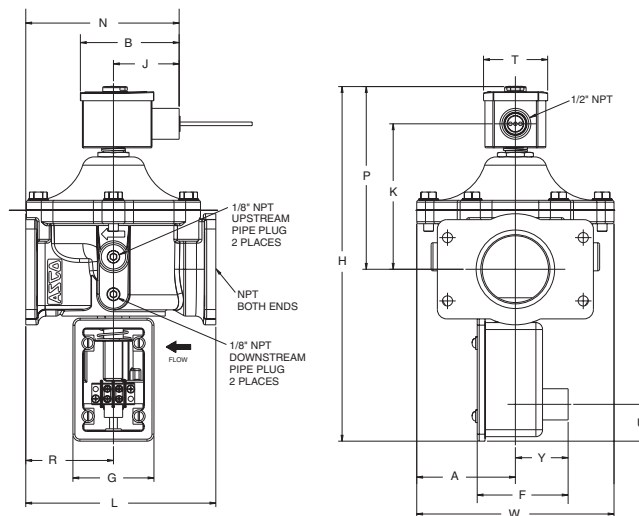
Dimensions inches (mm)

Const. Ref.		A	B	C	F	G	H	J	K	L	M	N	P	R	T	U	W	Y
11	in	2.69	4.64	1.86	2.91	2.60	10.99	3.55	4.14	5.30	2.48	5.95	5.51	2.40	2.20	1.18	5.39	1.69
	mm	68	118	47	74	66	279	90	105	135	63	151	140	61	56	30	137	43
12	in	3.16	4.64	1.86	2.91	2.60	11.36	3.55	4.48	6.09	2.48	6.36	5.85	2.81	2.20	1.18	6.32	1.69
	mm	80	118	47	74	66	289	90	114	155	63	161	149	71	56	30	161	43
13	in	4.13	4.65	1.86	2.91	2.60	13.88	3.55	5.86	7.80	2.48	7.44	7.23	3.89	2.20	1.18	7.95	1.69
	mm	105	118	47	74	66	352	90	149	198	63	189	184	99	56	30	202	43
14	in	2.69	3.15	-	2.91	2.58	10.95	2.11	4.28	5.30	-	4.51	5.47	2.40	2.06	1.18	5.39	1.69
	mm	68	80	-	74	66	278	53	109	135	-	114	139	61	52	30	137	43
15	in	3.16	3.17	-	2.91	2.58	11.36	2.1	4.66	6.09	-	4.92	5.85	2.81	2.06	1.18	6.32	1.69
	mm	80	80	-	74	66	289	53	118	155	-	125	149	71	52	30	161	43

Const. Ref. 11-13



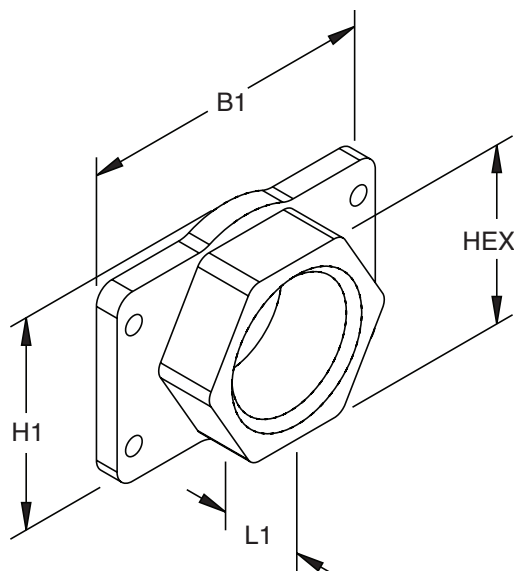
Const. Ref. 14, 15



Proof of Closure constructions (Suffix C) must be mounted with solenoid vertical and upright.

Dimensions inches (mm)

Flange Adapters		B1	H1	L1	HEX
3/4" - 1"	in	4.8	2.5	1.27	2.5
	mm	122	76	32	64
1 1/4" - 2"	in	5	3.56	1.38	3
	mm	127	90	35	76
2" (High Flow) - 3"	in	7	4.5	2.015	4.5
	mm	178	114	51	114



Flange Adapter Kits (Optional)*

Pipe Size (in)	Inlet & Outlet Adapter/Hardware Kit	Approx. Shipping Weight (lbs)
3/4	296659-001	1.6
1	296659-002	1.5
1 1/4	296659-003	1.3
1 1/2	296659-004	1.2
1 1/4 (High Flow)	296659-005	2.4
1 1/2 (High Flow)	296659-006	2.1
2	296659-007	1.7
2 (High Flow)	296659-008	6.6
2 1/2	296659-009	6.0
3	296659-010	4.9

* Please refer to the Double Gas Shutoff Valves catalog pages for more kit information.

General Purpose Rebuild Kits

Pipe Size (in)	Standard Rebuild Kit		
	Suffix	AC	DC
3/4, 1 1/4, 1 1/2, 2	None	323632	323946
	VI	323637	-
1 1/4 (High Flow), 1 1/2 (High Flow), 2	None	323499	323522
	VI	323501	-
2 (High Flow), 2 1/2, 3	None	323947	325565
	VI	323948	-

Watertight Rebuild Kits

Pipe Size (in)	Standard Rebuild Kit		
	Suffix	AC	DC
3/4, 1 1/4, 1 1/2, 2	None	323939	325741
	VI	323941	-
1 1/4, 1 1/2, 2	None	323538	325742
	VI	323539	-