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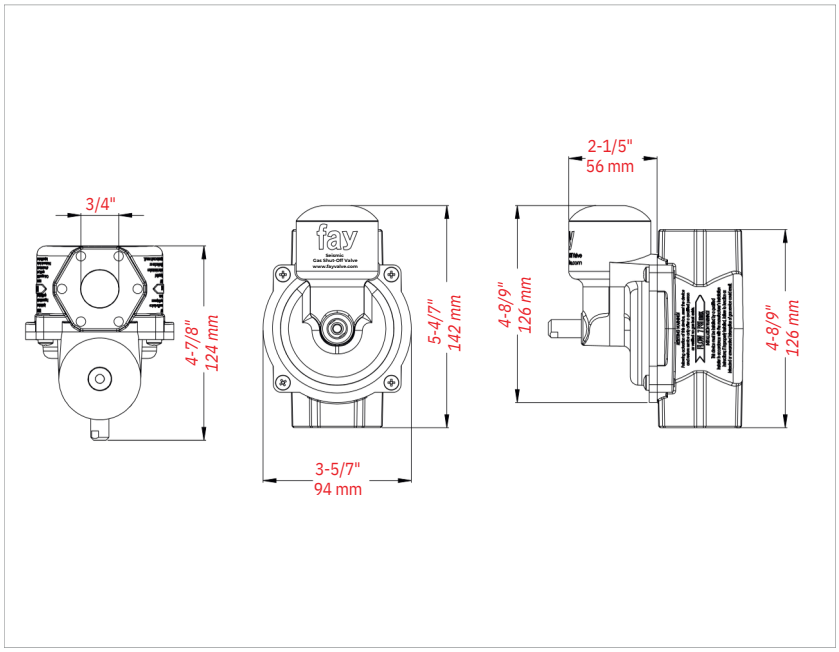
FM 20 MECHANICAL EARTHQUAKE VALVE
3/4" NPT Vertical 7 PSI



MODEL	PIPE SIZE	DN	POSITION	TEMP. RANCE	MAX. PRESSURE	WEIGHT
FM 20	3/4"	20	Vertical	-23°C(-10°F) to +66°C (+150°F)	7PSI / 0,5 Bar	2,550 lb / 1,161 kg

Material	Min. Turning Effort	Min. Bending Moment	CV	Eqv Lenght of pipe (ft)
Aluminium Alloy / Brass / Stainless Steel	560 Inc lbf / 63,3 Nm	18.0 Lb / 8,16 kg	17	0.6

FLOW CAPACITY TABLE IWC/PSIG - Capacity S.C.F.H

Pressure Drop		Inlet Pressure (iwc)		Inlet Pressure (psi)					
psi	iwc	8" iwc	14" iwc	3	5	7	10	20	60
0.0036	0.1	295	298	321	339	355	379	450	660
0.0072	0.2	418	421	454	479	503	536	636	933
0.0108	0.3	512	515	556	587	616	657	778	1142
0.0144	0.4	591	595	642	677	711	758	899	1319
0.018	0.5	660	665	718	757	795	848	1005	1475
0.0216	0.6	723	728	786	829	870	929	1101	1615
0.0252	0.7	781	787	849	896	940	1003	1189	1745
0.0288	0.8	835	841	907	957	1005	1072	1271	1865
0.0324	0.9	885	892	962	1015	1066	1137	1348	1978
0.036	1.0	933	940	1014	1070	1123	1198	1421	2085
0.072	2.0	1318	1328	1433	1512	1587	1694	2008	2948
0.108	3.0	1612	1624	1753	1850	1942	2073	2458	3610
0.144	4.0	1860	1873	2022	2134	2241	2392	2837	4167
0.18	5.0	2077	2092	2259	2384	2503	2672	3170	4658

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FLOW CAPACITY TABLE IWC/PSIG - Capacity m^3/h

Pressure Drop		Inlet Pressure (iwc)		Inlet Pressure (psi)					
psi	iwc	8" iwc	14" iwc	3	5	7	10	20	60
0.0036	0.1	8,26	8,34	8,99	9,49	9,94	10,61	12,60	18,48
0.0072	0.2	11,70	11,79	12,71	13,41	14,08	15,01	17,81	26,12
0.0108	0.3	14,34	14,42	15,57	16,44	17,25	18,40	21,78	31,98
0.0144	0.4	16,55	16,66	17,98	18,96	19,91	21,22	25,17	36,93
0.018	0.5	18,48	18,62	20,10	21,20	22,26	23,74	28,14	41,30
0.0216	0.6	20,24	20,38	22,01	23,21	24,36	26,01	30,83	45,22
0.0252	0.7	21,87	22,04	23,77	25,09	26,32	28,08	33,29	48,86
0.0288	0.8	23,38	23,55	25,40	26,80	28,14	30,02	35,59	52,22
0.0324	0.9	24,78	24,98	26,94	28,42	29,85	31,84	37,74	55,38
0.036	1.0	26,12	26,32	28,39	29,96	31,44	33,54	39,79	58,38
0.072	2.0	36,90	37,18	40,12	42,34	44,44	47,43	56,22	82,54
0.108	3.0	45,14	45,47	49,08	51,80	54,38	58,04	68,82	101,08
0.144	4.0	52,08	52,44	56,62	59,75	62,75	66,98	79,44	116,68
0.18	5.0	58,16	58,58	63,25	66,75	70,08	74,82	88,76	130,42

FLOW CAPACITY TABLE IWC/PSIG - Capacity kW

Pressure Drop		Inlet Pressure (iwc)		Inlet Pressure (psi)					
psi	iwc	8" iwc	14" iwc	3	5	7	10	20	60
0.0036	0.1	87,14	88,03	94,82	100,14	104,87	111,96	132,93	194,96
0.0072	0.2	123,48	124,36	134,11	141,50	148,59	158,33	187,87	275,61
0.0108	0.3	151,24	152,13	164,24	173,40	181,97	194,08	229,82	337,35
0.0144	0.4	174,58	175,76	189,65	199,99	210,03	223,91	265,56	389,63
0.018	0.5	194,96	196,44	212,10	223,62	234,84	250,50	296,88	435,72
0.0216	0.6	213,57	215,05	232,18	244,89	257,00	274,43	325,24	477,07
0.0252	0.7	230,71	232,48	250,79	264,68	277,68	296,29	351,23	515,47
0.0288	0.8	246,66	248,43	267,93	282,70	296,88	316,67	375,45	550,92
0.0324	0.9	261,43	263,50	284,17	299,83	314,90	335,87	398,20	584,30
0.036	1.0	275,61	277,68	299,54	316,08	331,73	353,89	419,76	615,91
0.072	2.0	389,34	392,29	423,31	446,64	468,80	500,41	593,16	870,84
0.108	3.0	476,18	479,73	517,84	546,49	573,67	612,36	726,09	1066,39
0.144	4.0	549,44	553,28	597,30	630,38	661,99	706,60	838,05	1230,93
0.18	5.0	613,55	617,98	667,31	704,23	739,39	789,31	936,42	1375,97

CERTIFICATES	CSA (ASCE 25-16 Earthquake - Actuated Automatic Gas Shutoff Devices / ANSI Z21.21-2005 / CSA 6.5-2005 Automatic Gas Valves / CR90-002 Earthquake Actuated Automatic Gas Shutoff System)
APPLICATION	Gasses : Natural Gas, LPG, methane, propane, air, etc… non corrosive gaseous fluids.
INFORMATION	Experiments were carried out with air. Calculations based on gas with a density of 0.64 and a calorific value of 37 MJ/m3. The measured flow value is arranged according to 15 °C and 101.3 kPa pressure.