611 Argyle St N
Caledonia, ON
N3W 1M1

"A lternative C onveying S olutions"

PH: 800-655-3447
FX: 800-955-4991

The chart below gives theoretical capacities based on 100% pocket filling efficiency. Please note that in practice this is rarely achieved as product & application characteristics will affect a valve's efficiency. Refer to the Airlock Efficiency chart below to calculate an estimated capacity..

Capacity Chart in Cubic Feet/Hr.

VALVE SIZE											
	30	996	4980	7968	9960	11952	13944	15936	17928	19920	21912
	26	540	2700	4320	5400	6480	7560	8640	9720	10800	11880
	22	276	1380	2208	2760	3312	3864	4416	4968	5520	6072
	24	384	1920	3072	3840	4608	5376	6144	6912	7680	8448
	18	162	810	1296	1620	1944	2268	2592	2916	3240	3564
	16	84	420	672	840	1008	1176	1344	1512	1680	1848
	14	66	330	528	660	792	924	1056	1188	1320	1452
	12	45	225	360	450	540	630	720	810	900	990
	10	24	120	192	240	288	336	384	432	480	528
	8	12	60	96	120	144	168	192	216	240	264
	6	6	30	48	60	72	84	96	108	120	132
	4	2	8	12	15	18	21	24	27	30	33
		1	**5**	**8**	**10**	**12**	**14**	**16**	**18**	**20**	**22**
	Rotor Speed R.P.M.										

AIRLOCK DISPLACEMENT (CFR = cu.ft./rev.)

4 x 4	**.025 CFR**
6 x 6	**.1 CFR**
8 x 8	**.2 CFR**
10 x 10	**.4 CFR**
12 x 12	**.75 CFR**
14 x 14	**1.1 CFR**
16 x 16	**1.4 CFR**
18 x 18	**2.7 CFR**
22 x 22	**4.6 CFR**
24 x 24	**6.4 CFR**
26 x 26	**9.0 CFR**
30 x 30	**16.60 CFR**

Airlock Efficiency	
HIGH	**= 90% (.90)**
MEDIUM	**= 80% (.80)**
LOW	**= 70% (.70)**
PELLET MATERIAL	**= 40-50% (.40 or .50)**

> *For further help in calculating the best size valve for a particular application ask ACS Valves to email a copy of our Airlock Size & RPM Calculation Work Sheet.*

> Refer to Material Characteristics Sheets for Bulk Density

> Airlock efficiency ratings are somewhat subjective as they can vary from one application to another. For best results contact ACS Valves

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DTFV Discharge Trough Feeder Valve

The chart below gives theoretical capacities based on 100% pocket filling efficiency. Please note that in practice this is rarely achieved as product & application characteristics will affect a valve's efficiency. Refer to the Airlock Efficiency chart below to calculate an estimated capacity..

Capacity Chart in Cubic Feet/Hr.

VALVE SIZE											
	12x24	78	390	624	780	936	1092	1248	1404	1560	1716
	12x36	102	510	816	1020	1224	1428	1632	1836	2040	2244
	12x48	135	675	1080	1350	1620	1890	2160	2430	2700	2970
		1	**5**	**8**	**10**	**12**	**14**	**16**	**18**	**20**	**22**
	Rotor Speed R.P.M.										

AIRLOCK DISPLACEMENT (CFR = cu.ft./rev.)

12x24	----------	**1.30 CFR**
12x36	----------	**1.70 CFR**
12x48	----------	**2.25 CFR**

	Airlock Efficiency	
	HIGH	**= 90% (.90)**
	MEDIUM	**= 75% (.80)**
**	**LOW**	**= 6070% (.60-.70)**
	PELLET MATERIAL	**= 40-50% (.40 or .50)**

** Use for most applications

> *For further help in calculating the best size valve for a particular application ask ACS Valves to email a copy of our Airlock Size & RPM Calculation Work Sheet.*

> Refer to Material Characteristics Sheets for Bulk Density

> Airlock efficiency ratings are somewhat subjective as they can vary from one application to another. For best results contact ACS Valves