

**Standard Assembly Unit Installation Data:**

- Designed for gravity flow and dilute phase pneumatic conveying systems.
- **Connections:** Band type compression couplings having a thin section are commonly used.
- **Actuation:** Double acting air cylinder. The air cylinder requires a minimum of 80 psig (5.4 bar), filtered, compressed air for most reliable service. Air lubrication is not required but is recommended for extended wear life.
- **Air Control:** A 2 position, 4 way lever or solenoid operated compressed air control is required to operate the air cylinder.
- **Air usage:** calculated at 80 psig (5.4 bar) for 1 open or 1 closed stroke of the air cylinder.
- **Temperature:** Base model rated at 180° f (82° c) continuous service, 250° f (121° c) intermittent (10 minutes maximum). Higher temperatures can be achieved with high temperature modifications.
- **Hardware:** Imperial models contain imperial hardware & metric models contain metric hardware.

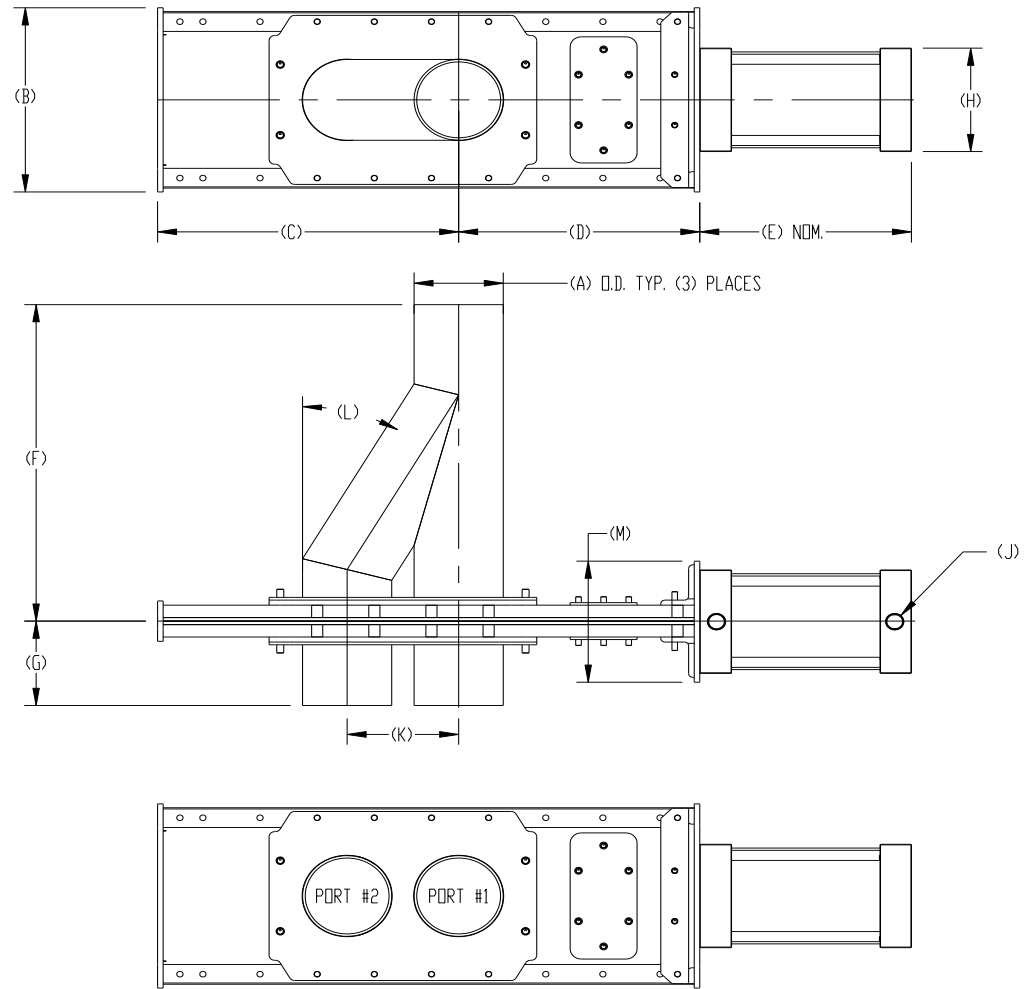
**Avoid supporting conveying lines and equipment exceeding 200 lbs (90kg) with the diverter gate valve.**

**It is recommended that the conveying system be purged of material prior to shifting the diverter valve.**

**Note:**

- a.) Air cylinder is extended, port #2 is open
- b.) Air cylinder is retracted, port #1 is open

(XX) Material of construction, aluminum (AL), carbon steel (CS), or stainless steel (S4 or S6).



BASE VALVE	A		B		C		D		E		F		G		H		J		K		L		M		CV	KV	AIR USAGE		WEIGHT	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	NPT	G	in	mm	in	mm	in	mm			SCF	I	Lbs	Kg
DR2-2(XX)-SL / DR50-2(XX)-SL	2	51	7 1/8	181	7 3/4	197	7	178	6 1/4	158	9 5/8	245	4 1/8	106	3 1/2	87	3/8	3/8	2 1/2	64	30°	4 1/2	115	1.0	0.86	0.109	3.09	26	12	
DR2.5-2(XX)-SL / DR65-2(XX)-SL	2 1/2	63	8 1/8	206	10 1/4	260	9 1/8	233	8	203	11 5/8	296	4 1/8	106	4 1/8	105	1/2	1/2	3 1/2	89	30°	5	127	1.4	0.86	0.109	3.09	42	19	
DR3-2(XX)-SL / DR75-2(XX)-SL	3	76	8 1/8	206	10 1/4	260	9 1/8	233	8	203	11 5/8	296	4 1/8	106	4 1/8	105	1/2	1/2	3 1/2	89	30°	5	127	1.4	1.20	0.302	8.55	42	19	
DR4-2(XX)-SL / DR100-2(XX)-SL	4	102	9 1/8	232	13 1/2	343	10 7/8	275	9 1/2	241	15 5/8	398	4 1/8	106	5 1/8	130	1/2	1/2	5	127	30°	6	152	1.4	1.20	0.362	10.3	58	26	
DR5-2(XX)-SL / DR125-2(XX)-SL	5	127	10 1/8	257	16	406	12 1/2	318	10 3/4	273	17 5/8	449	5 1/8	132	5 1/2	140	1/2	1/2	6	152	30°	6	152	2.6	1.20	0.515	14.6	73	33	
DR6-2(XX)-SL / DR150-2(XX)-SL	6	152	11 1/8	283	18 1/2	470	14	354	11 3/4	298	20 1/8	513	5 1/8	132	5 1/2	140	1/2	1/2	7	178	30°	6 1/8	156	3.0	2.22	1.055	29.9	88	40	
DR8-2(XX)-SL / DR200-2(XX)-SL	8	203	13 1/4	337	25 3/4	654	18 1/4	464	15 3/4	399	23 1/8	588	9 1/8	233	6 1/2	165	1/2	1/2	10	254	45°	7 5/8	195	3.0	2.56	2.196	62.2	133	60	
DR10-2(XX)-SL / DR250-2(XX)-SL	10	254	16	406	35 1/4	895	23 3/4	603	19 7/8	504	28 7/8	735	9 1/2	243	8 1/2	216	1/2	1/2	14	356	45°	15 3/8	391	3.0	2.56	2.562	72.6	278	126	
DR12-2(XX)-SL / DR300-2(XX)-SL	12	305	18	457	42 1/4	1073	27 3/4	705	22 7/8	580	33	837	9 3/4	247	8 1/2	216	1/2	1/2	17	432	45°	15 3/8	391	3.0	2.56	3.111	88.1	305	138	

\*Information subject to change without notice | Above information is Vortex standard dimensional information | Contact us if your application needs a non-standard valve | Available specifications and modifications available at [www.vortexvalves.com](http://www.vortexvalves.com)