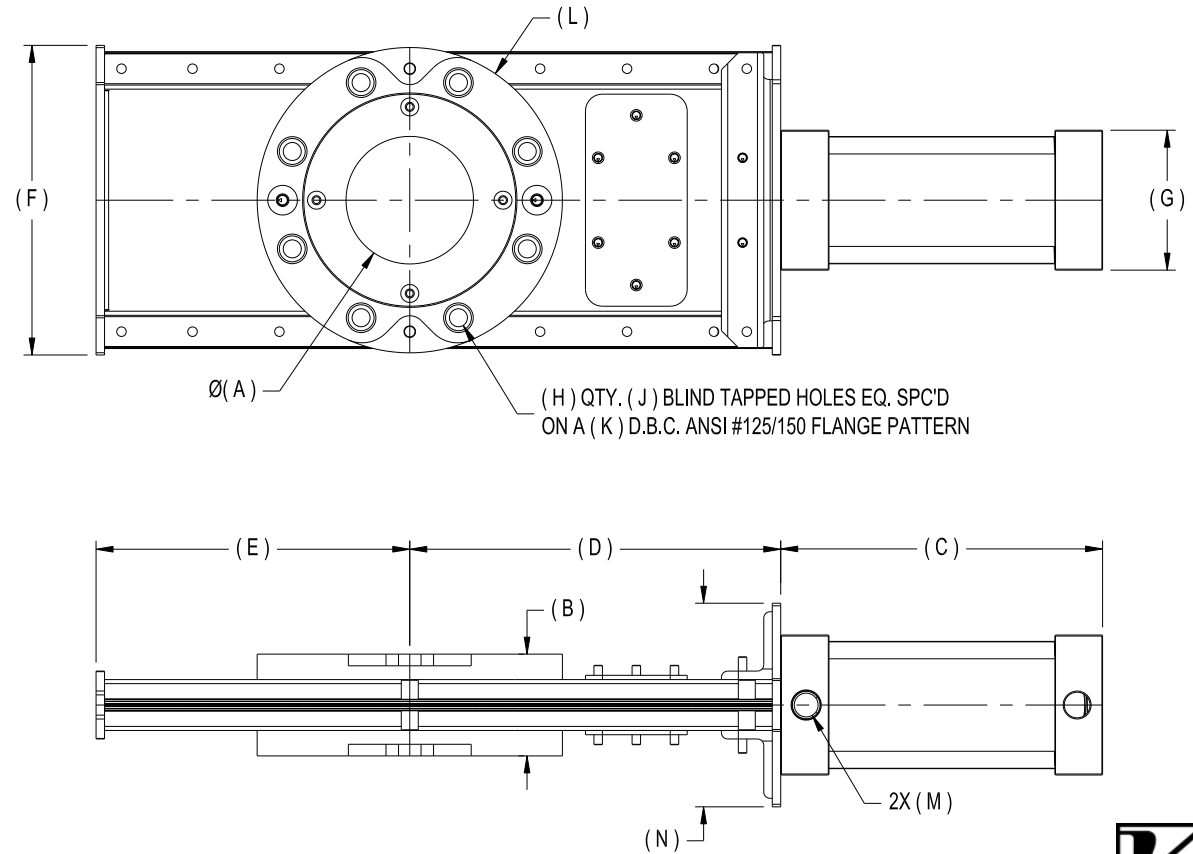


Standard Assembly Unit Installation Data:

- Designed for gravity flow and dilute phase pneumatic conveying systems.
- Connections:** Inlet and outlet have an ANSI #125/150 flange pattern with blind tapped holes for flange connection.
- 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.
- 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.
- Air Usage:** Calculated at 80 psig (5.4 bar) for 1 open or 1 closed stroke of the air cylinder.
- 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.**



BASE VALVE	A		B		C		D		E		F		G		H	J	K		L		M		N		CV	KV	AIR USAGE		WEIGHT	
Imperial / Metric Model (F,G,J)	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		in	in	mm	in	mm	NPT	G	in	mm			SCF	L	Lbs	Kg
GRA02-AP / GRA50-AP	1 3/4	45	3 3/8	86	6 3/4	171	7 1/2	189	6	152	7 1/8	181	3 1/2	87	4	5/8-11NC	4 3/4	121	6	152	3/8	3/8	4 1/2	114	1.0	0.86	0.080	2.27	22	10
GRA02.5-AP / GRA65-AP	2 1/4	57	3 3/8	86	8 1/2	216	8 7/8	225	7 7/8	200	8 1/8	206	4 1/8	105	4	5/8-11NC	5 1/2	140	7	178	1/2	1/2	5	127	1.0	0.86	0.143	4.05	32	15
GRA03-AP / GRA75-AP	2 3/4	70	3 3/8	86	8 1/2	216	8 7/8	225	7 7/8	200	8 1/8	206	4 1/8	105	4	5/8-11NC	6	152	7 1/2	191	1/2	1/2	5	127	1.0	0.86	0.143	4.05	32	15
GRA04-AP / GRA100-AP	3 3/4	96	3	76	9 1/2	241	11	278	9 1/4	235	9 1/8	232	5 1/8	131	8	5/8-11NC	7 1/2	190	9	229	1/2	1/2	6	152	1.4	1.20	0.302	8.55	38	17
GRA05-AP / GRA125-AP	4 7/8	123	3 1/2	89	10 1/2	266	12 1/2	317	10 7/8	276	10 1/8	257	5 1/8	131	8	3/4-10NC	8 1/2	216	10	254	1/2	1/2	6	152	1.4	1.20	0.362	10.25	42	19
GRA06-AP / GRA150-AP	5 7/8	149	3 1/2	89	11 3/4	298	14	358	12 3/8	314	11 1/8	283	5 1/2	140	8	3/4-10NC	9 1/2	241	11	279	1/2	1/2	6 1/8	156	2.6	2.22	0.515	14.58	50	23
GRA08-AP / GRA200-AP	7 7/8	199	3 1/2	89	13 3/4	349	17	432	15 3/8	391	13 1/8	333	5 1/2	140	8	3/4-10NC	11 3/4	298	13 1/2	343	1/2	1/2	6 1/8	156	2.6	2.22	0.662	18.75	61	28
GRA10-AP / GRA250-AP	9 7/8	250	4 3/8	111	16 3/4	424	20	508	18 3/8	487	15 1/4	387	6 1/2	165	12	7/8-9NC	14 1/4	362	16	406	1/2	1/2	7 1/8	181	2.6	2.22	1.155	32.70	95	43
GRA12-AP / GRA300-AP	11 7/8	301	4 3/8	111	18 3/4	475	23	584	21 3/8	543	17 3/8	441	6 1/2	165	12	7/8-9NC	17	432	19	483	1/2	1/2	7 1/8	181	2.6	2.22	1.365	38.65	115	52
GRA14-AP / GRA350-AP	13 7/8	352	4 5/8	117	20 3/4	526	26 1/2	672	24 3/8	619	19 3/8	492	6 1/2	165	12	1-8NC	18 3/4	476	21	533	1/2	1/2	7 1/8	181	2.6	2.22	1.575	44.60	145	66
GRA16-AP / GRA400-AP	15 7/8	403	5 3/8	138	24 1/8	611	32 7/8	835	30 1/4	768	23 1/2	595	8 1/2	216	16	1 3/8-12NC	21 1/4	540	N/A	N/A	1/2	1/2	17 1/2	445	2.6	2.22	1.575	44.60	300	136

*GRA02-F-AP / GRA50-F-AP USES 3/8NPT IMPERIAL, G 3/8 METRIC FITTINGS

*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