pneumatic systems
to convey

polystyrene beads and loose fill packaging

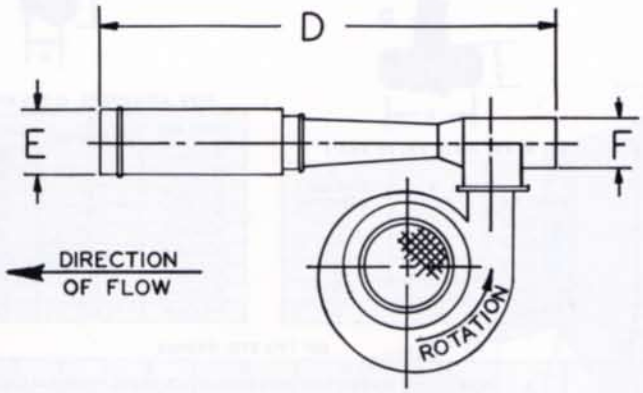
Quickdraft

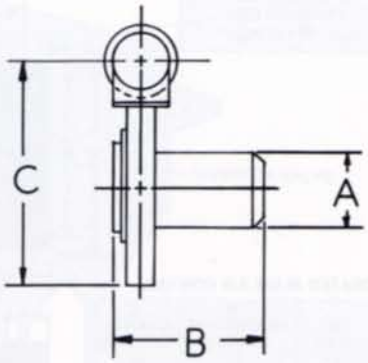
The units illustrated on this page have been designed for light duty applications in the conveying of loose fill packaging material. They are not recommended for conveying expandable polystyrene beads or any high density materials. The design incorporates our standard eductor tube with a straight extension 2″ greater in diameter than the eductor discharge. The perforated section on the discharge end of the eductor acts as an air vent to reduce the downstream resistance. An adjustable sleeve controls the area of perforated metal that should be exposed depending upon the distance the loose fill must be blown. The sleeve should be set for optimum performance after the installation is complete.

Vertical units are equipped with motor bases for ease of installation.

Units without bases are supplied with a mounting support bracket when blower assembly exceeds 50 lbs. in weight.

Quickdraft

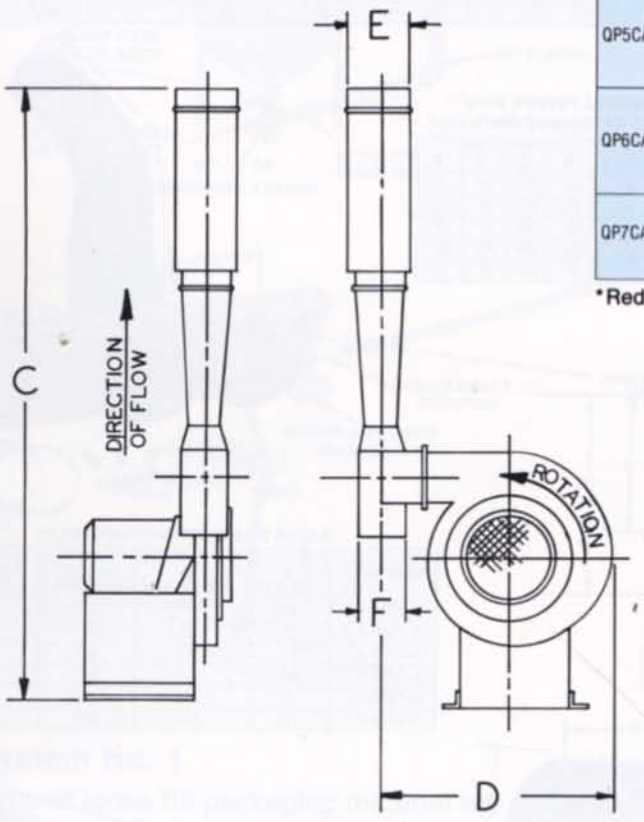




ARRANGEMENT "A" HORIZONTAL INSTALLATION

MODELS		A	B	C	D	E	F	BULLETIN NO.
QP4CA—	¾ HP	6½"	14"	15⅜"	46½"	6"	4"	QP1053-4
	1 HP	6½"	14"	17¼"				QP1055-4
	2 HP	6½"	14⅞"	26⅝"*				QP1059-4
	3 HP	6½"	15⅛"	28⁵⁄₁₆"*				QP1061-4
QP5CA—	¾ HP	6½"	14"	15⅛"	46⅝"	7"	5"	QP1078-5
	1 HP	6½"	14"	17¾"				QP1080-5
	2 HP	6½"	15⅛"	27⅛"*				QP1084-5
	3 HP	6½"	15⅛"	29⅝"*				QP1086-5
QP6CA —	1 HP	6½"	14¼"	18¼"	46⅝"	8"	6"	QP1105-6
	2 HP	6½"	15⅛"	27⅝"*				QP1109-6
	3 HP	6½"	15⅛"	29⅜"*				QP1111-6
	5 HP	9"	15⅜"	29⅜"*				QP1113-6
QP7CA —	2 HP	6½"	14¾"	18⅛"*	46⅝"	9"	7"	QP1134-7
	3 HP	6½"	15⅛"	28¼"*				QP1136-7
	5 HP	9"	15⅜"	30½"*				QP1138-7

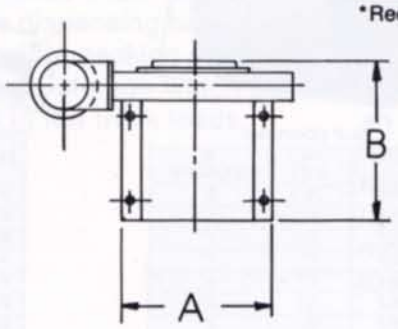
*Reducer Coupling Included



ARRANGEMENT "B" VERTICAL INSTALLATION

MODELS		A	B	C	D	E	F	BULLETIN NO.
QP4CA —	¾ HP	12"	16¼"	61½"	15⅜"	6"	4"	QP1054-4
	1 HP	12"	16¼"	62⅜"	17¼"			QP1056-4
	2 HP	12"	16⅜"	63¼"	26⅝"			QP1060-4
	3 HP	12"	16⅜"	61⅝"	28⅜"			QP1062-4
QP5CA —	¾ HP	12"	16¼"	65⅜"	15⅛"	7"	5"	QP1079-5
	1 HP	12"	16¼"	66⅛"	17¾"			QP1081-5
	2 HP	12"	16⅜"	64⅜"	22⅛"*			QP1085-5
	3 HP	12"	16⅜"	68⅜"	29⅝"*			QP1087-5
QP6CA —	1 HP	12"	16½"	69⅞"	18¼"	8"	6"	QP1106-6
	2 HP	12"	16⅜"	68⅜"	27⅝"*			QP1110-6
	3 HP	12"	16⅜"	71⅛"	29⅜"*			QP1112-6
	5 HP	14"	18⅜"	71⅛"	29⅜"*			QP1114-6
QP7CA —	2 HP	12"	16¼"	76⅛"	18⅛"	9"	7"	QP1135-7
	3 HP	12"	16⅜"	77½"	28¼"*			QP1137-7
	5 HP	14"	18⅜"	78⅛"	30½"*			QP1139-7

*Reducer Coupling Included



NOTE:
A perforated slide air control is supplied with all QP Models for installation on the outlet end of the eductor. Refer to Page 4 to obtain dimensions of this control.

ACCESSORIES

A *BUTTERFLY VALVE WITH FLARED INLET*

PART NO.	A (O.D.)	B (LENGTH)
A-1346-F	4"	6"
A-1347-F	5"	7"
A-1348-F	6"	8"
A-1349-F	7"	9"
A-1350-F	8"	10"

D *BLAST GATE VALVE ASS'Y*

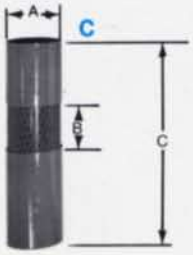
PART NO.	A (O.D.)	B (OVERALL LENGTH)
A-1281-F	4"	6¼"
A-1282-F	5"	7¾"
A-1283-F	6"	8"
A-1284-F	7"	8"
A-1285-F	8"	8"

PIPE ADAPTERS, GALVANIZED STEEL

PART NO.	A (DIAMETER)	GAUGE	B (LENGTH)
P-1424-F	4"	22	2"
P-1425-F	5"	22	2"
P-1426-F	6"	22	2"
P-1427-F	7"	22	2"
P-1428-F	8"	22	2"
P-1429-F	9"	22	2"
P-1430-F	10"	22	2"
P-1431-F	11"	22	2"
P-1432-F	12"	22	2"

C *PERFORATED SLIDE AIR CONTROL*

PART NO.	A (I.D.)	B (EFFECTIVE LENGTH)	C (OVERALL LENGTH)
A-1226-F	4"	10"	16"
A-1228-F	5"	13"	20"
A-1230-F	6"	15½"	23"
A-1232-F	7"	16½"	25
A-1234-F	8"	19½"	28½"
A-1236-F	9"	20"	30"
A-1238-F	10"	20½"	31"
A-1240-F	12"	22"	34"

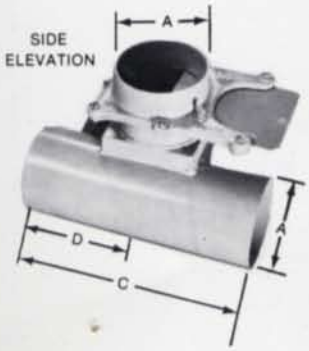


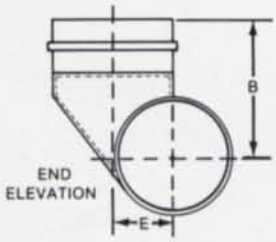
B *90° TY's STD. RADIUS*

PART NO.	A (DIA.)	B (EFFECTIVE LENGTH)	C (EFFECTIVE LENGTH)	D (EFFECTIVE LENGTH)	E (OVERALL LENGTH)	F (OVERALL LENGTH)	G (OVERALL LENGTH)	H (DIA.)
P-1331-F	4" I.D.	11⅓"	14⅝"	13²¹/₃₂"	14"	15⅝"	14²⁹/₃₂"	4" I.D.
P-1332-F	5" I.D.	15⅓"	17⅞"	17⅛"	18½"	19⅜"	18⅝"	5" I.D.
P-1333-F	6" I.D.	18"	21⅛"	20²⁵/₃₂"	21"	22⅜"	22¹¹/₃₂"	6" I.D.
P-1334-F	8" O.D.	29"	29⅛"	29¹¹/₃₂"	29"	29⅛"	29¹¹/₃₂"	8" O.D.

B *90° TY's SHORT RADIUS*

PART NO.	A DIA.	B	C	D (EFFECTIVE LENGTH)	E (OVERALL LENGTH)	F (OVERALL LENGTH)	G (OVERALL LENGTH)	H DIA.
A-1335-F	4" O.D.			6⅛"	13"	9"	8"	4" I.D.
A-1336-F	5" O.D.			8⅛"	16"	11"	10⅛"	5" I.D.
A-1337-F	6" O.D.			10⅝"	20"	14"	12⅛"	6" I.D.
A-1338-F	7" O.D.			12⅓"	21"	15"	12⅓"	7" O.D.
A-1339-F	8" O.D.			16¼"	22"	16"	16¼"	8" O.D.





TANGENTIAL FEEDER WITH BLAST GATE VALVE ASS'Y

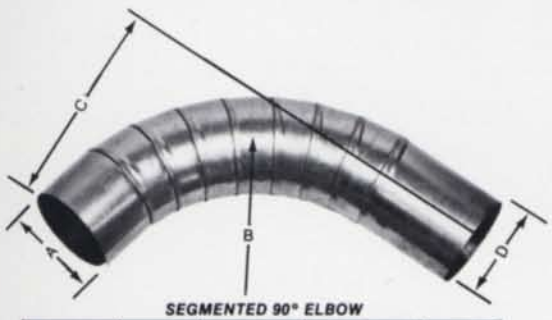
PART NO.	A (O.D.)	B	C	D	E
A-1399-F	4"	5¾"	10"	5"	2"
A-1400-F	5"	7⅛"	12"	6"	2½"
A-1401-F	6"	8"	14"	7"	3"
A-1402-F	7"	8½"	15"	7⅛"	3⅛"
A-1403-F	8"	9"	16"	8"	4"

ADAPTER COUPLING

PART NO.	A (INSIDE DIAMETER)	B (OUTSIDE DIAMETER)	C (OVERALL LENGTH)	D (EFFECTIVE LENGTH)
A-1299-F	4"	4"	5"	1"
A-1300-F	5"	5"	6"	1½"
A-1301-F	6"	6"	7"	2"
A-1302-F	7"	7"	7"	2"
A-1303-F	8"	8"	8"	2½"
A-1304-F	9"	9"	8"	2½"
A-1305-F	10"	10"	8"	2½"
A-1306-F	12"	12"	8"	2½"

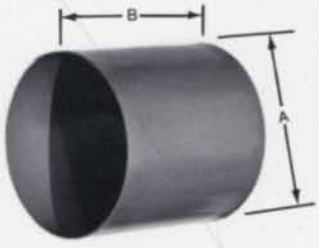
3-STUB SIDE SLIDE DIVERTER VALVE

PART NO.	A (O.D.)	B (CENTERS)	C (HOSE LENGTH)	D (STUB LENGTH)
A-1351-F	6"	7"	60"	4"
A-1352-F	7"	8"	60"	4"
A-1353-F	8"	9"	60"	5"
A-1354-F	9"	10"	60"	5"
A-1355-F	10"	11"	60"	5"
A-1356-F	12"	13"	60"	5"



SEGMENTED 90° ELBOW

PART NO.	A (I.D.)	B (C.L.R.)	C (OVERALL LENGTH)	D (O.D.)
P-1267-F	4"	10"	14"	4"
P-1268-F	5"	12⅛"	16⅛"	5"
P-1269-F	6"	15"	19"	6"
P-1270-F	7"	17⅛"	21⅛"	7"
P-1271-F	8"	20"	24"	8"
P-1272-F	9"	22⅛"	26⅛"	9"
P-1273-F	10"	25"	29"	10"
P-1274-F	12"	30"	35"	12"



SLIP COUPLING

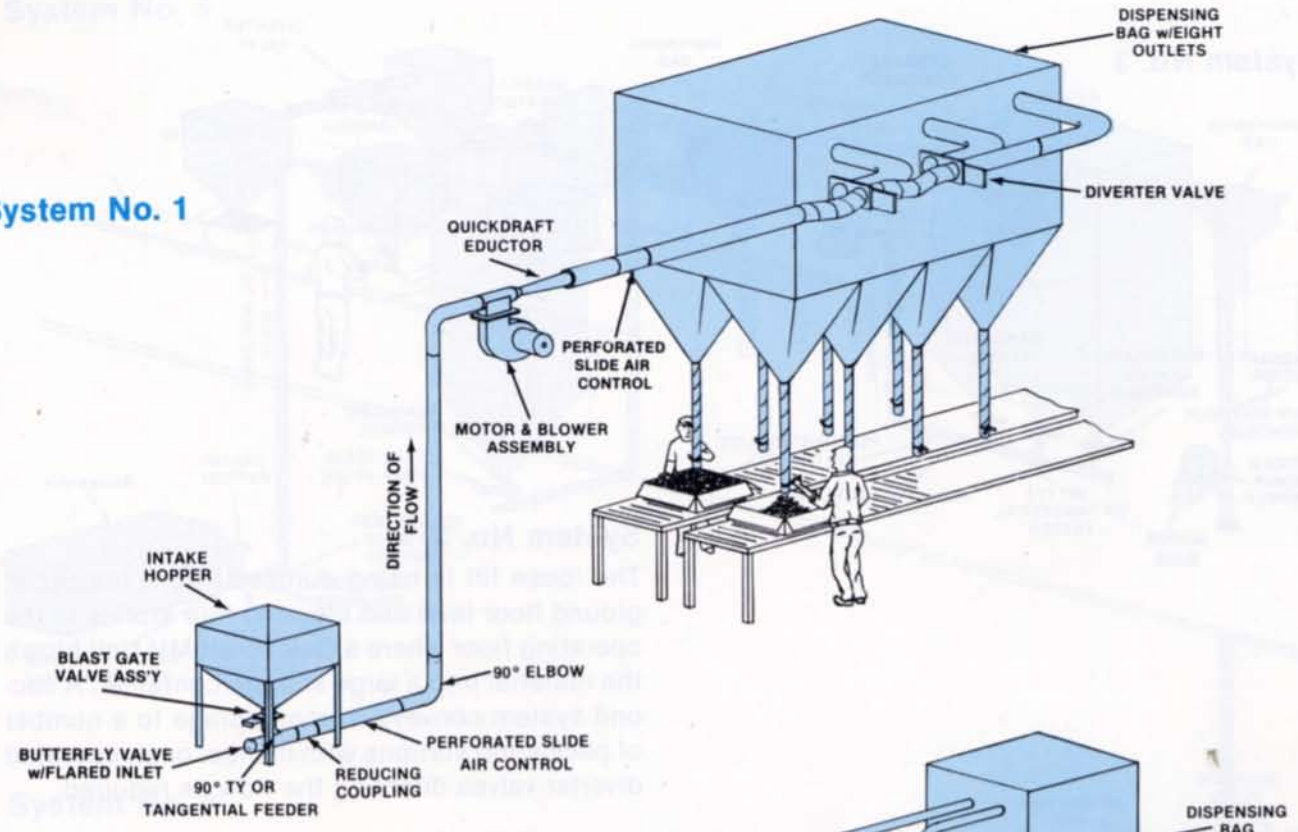
	A (I.D.)	B (LENGTH)
P-1290-F	4"	5"
P-1291-F	5"	6"
P-1292-F	6"	7"
P-1293-F	7"	7"
P-1294-F	8"	8"
P-1295-F	9"	8"
P-1296-F	10"	8"
P-1297-F	12"	8"

GALVANIZED PIPE

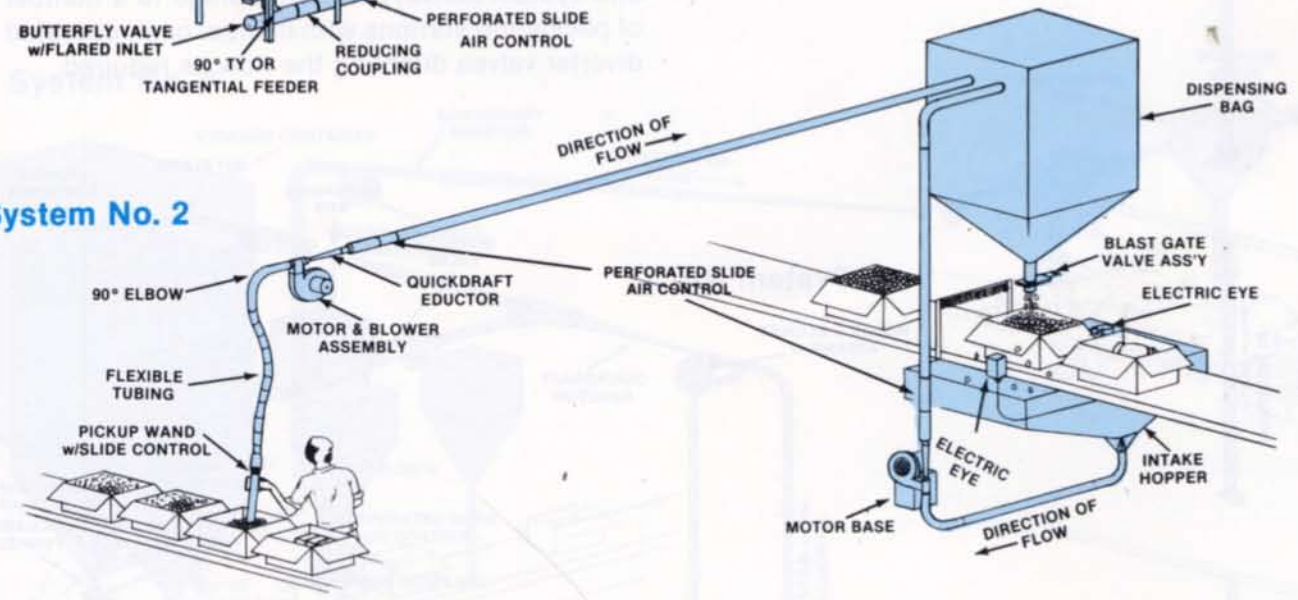
PART NO.	A (I.D.)	B (OVERALL LENGTH)	GAUGE
P-1258-F	4"	60"	#26
P-1259-F	5"	60"	#26
P-1260-F	6"	60"	#26
P-1261-F	7"	60"	#26
P-1262-F	8"	60"	#26
P-1263-F	9"	60"	#26
P-1264-F	10"	60"	#26
P-1265-F	12"	60"	#26

NOTE: *Effective length is actual length less the length of Bell Ends. For fittings without Bell Ends the effective length is also the overall length and diameters are shown as O.D.*

System No. 1



System No. 2



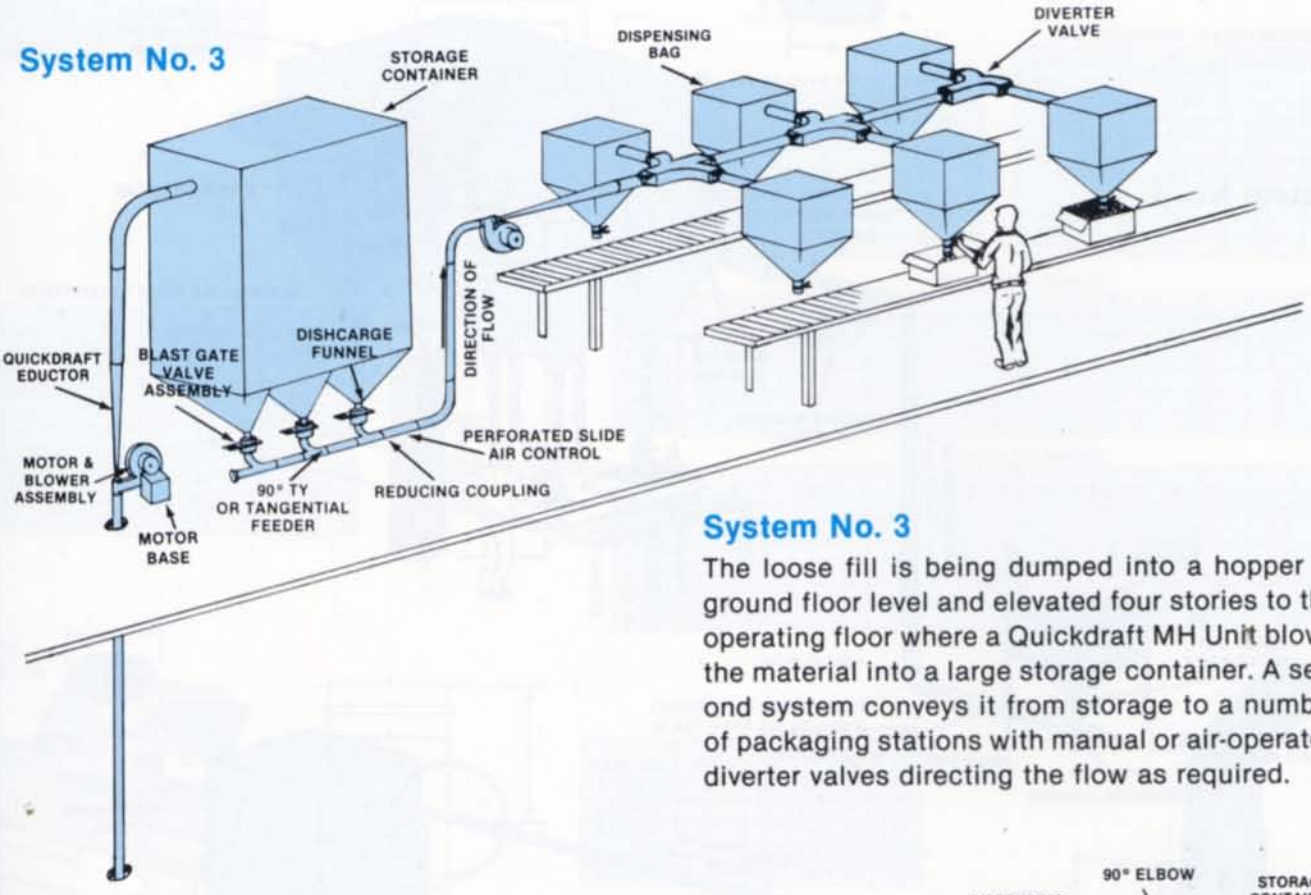
System No. 1

Bags of loose fill packaging material are dumped into the hopper at floor level. From there, the material is conveyed to the dispensing bag which has eight hoppers serving eight packing stations. The large bag also serves as storage which permits deliveries of material in full truck loads.

System No. 2

Incoming cartons, containing loose fill packaging, are being emptied using a pickup wand with flexible duct to a QP unit which blows the material into the storage bag at the automatic packaging station. The packaging station is equipped with an overflow retrieval system. this consists of a hopper positioned under the conveyor to contain the overflow. The QP unit, located in the duct connecting the hopper outlet to the storage bag, removes the overflow from the hopper and returns it to storage.

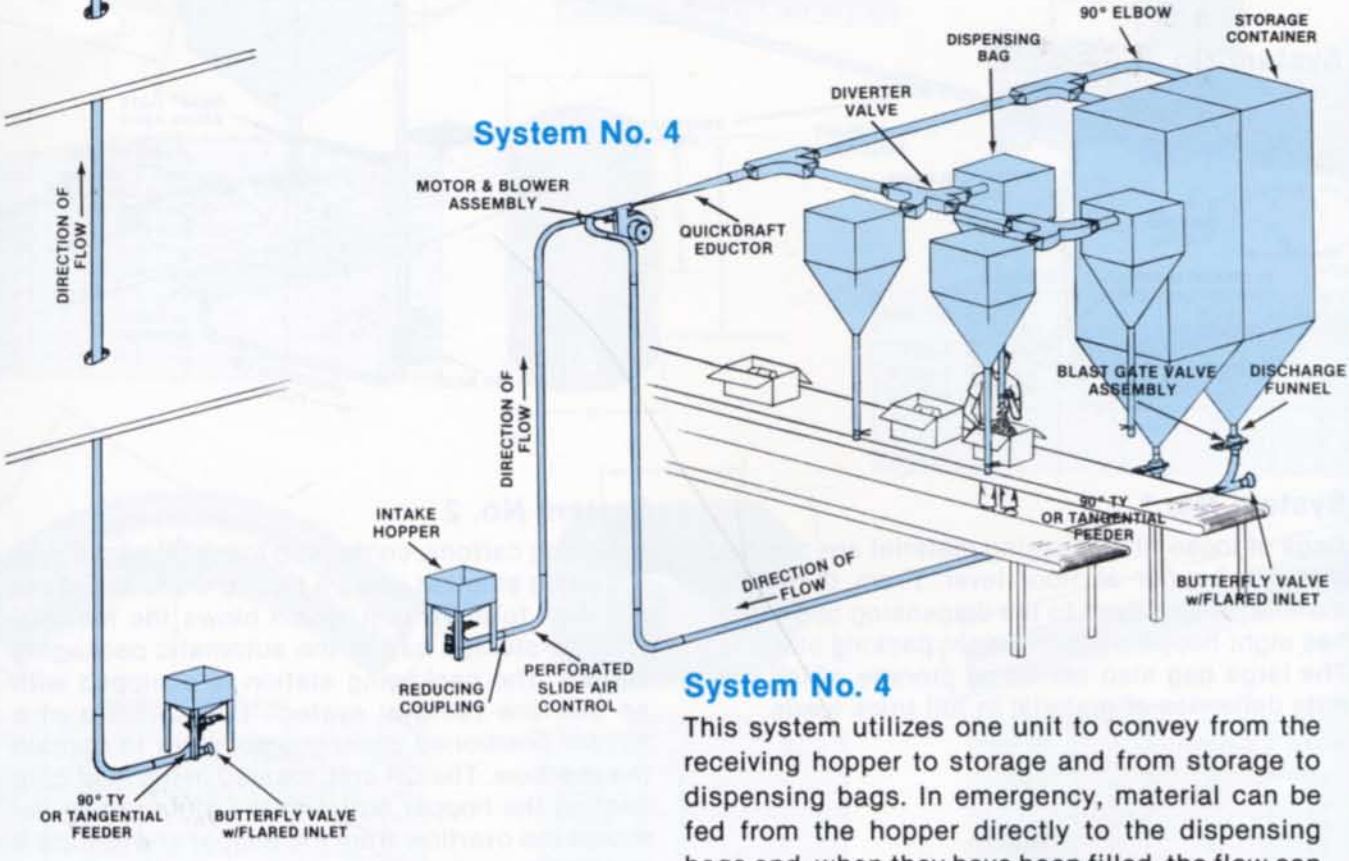
System No. 3



System No. 3

The loose fill is being dumped into a hopper at ground floor level and elevated four stories to the operating floor where a Quickdraft MH Unit blows the material into a large storage container. A second system conveys it from storage to a number of packaging stations with manual or air-operated diverter valves directing the flow as required.

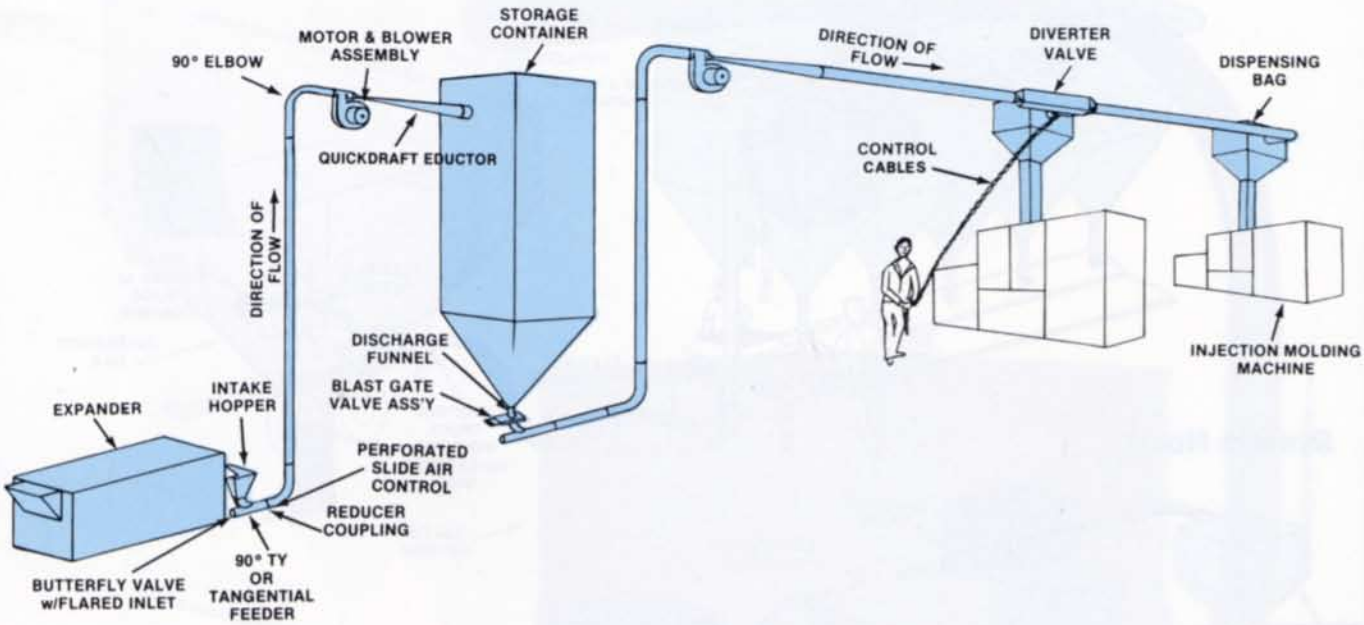
System No. 4



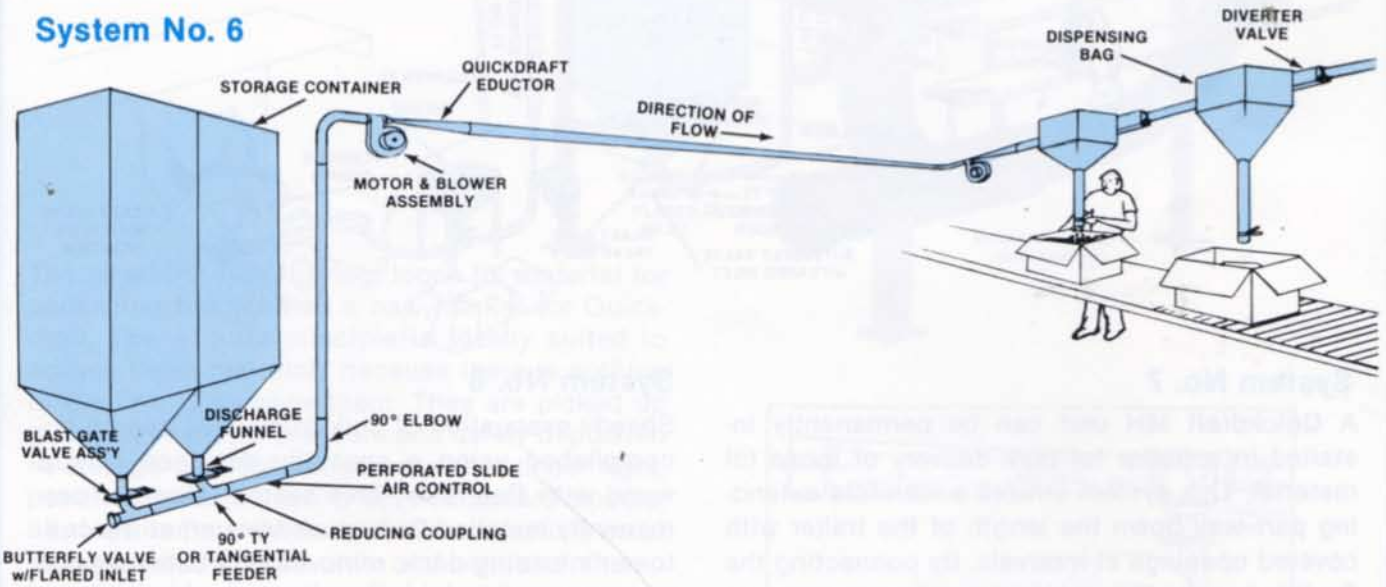
System No. 4

This system utilizes one unit to convey from the receiving hopper to storage and from storage to dispensing bags. In emergency, material can be fed from the hopper directly to the dispensing bags and, when they have been filled, the flow can be diverted to storage.

System No. 5



System No. 6



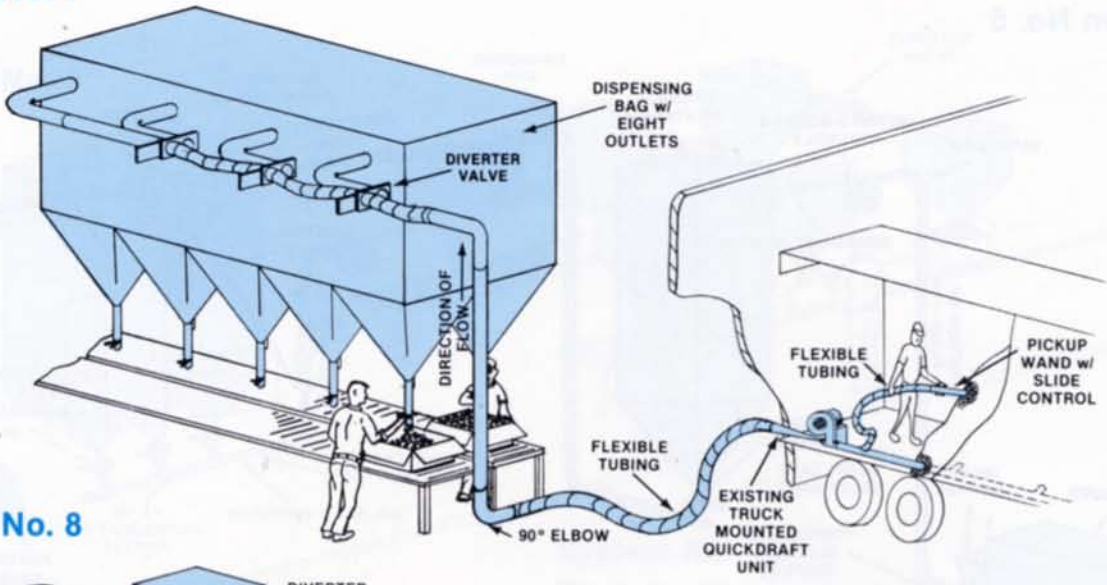
System No. 5

Expandable polystyrene beads are being discharged from an expander into a hopper with the outlet ducted to a Quickdraft MH unit which conveys it to a storage container. A second system moves the material to hoppers on injection-molding machines. The operator is shown controlling the diverter valve manually by means of chains.

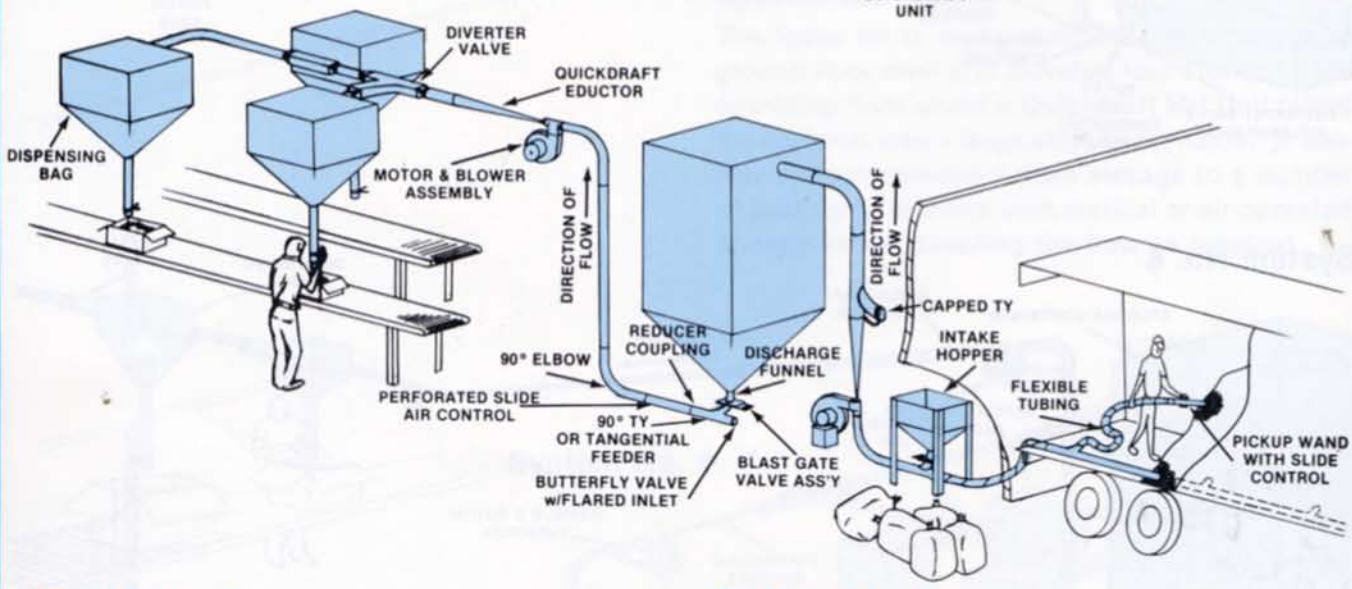
System No. 6

By using booster units with air control valves, loose fill packaging material and other materials can be conveyed over long distances using low horsepower models. This illustration shows two units in a long run from storage to dispensing bags.

System No. 7



System No. 8

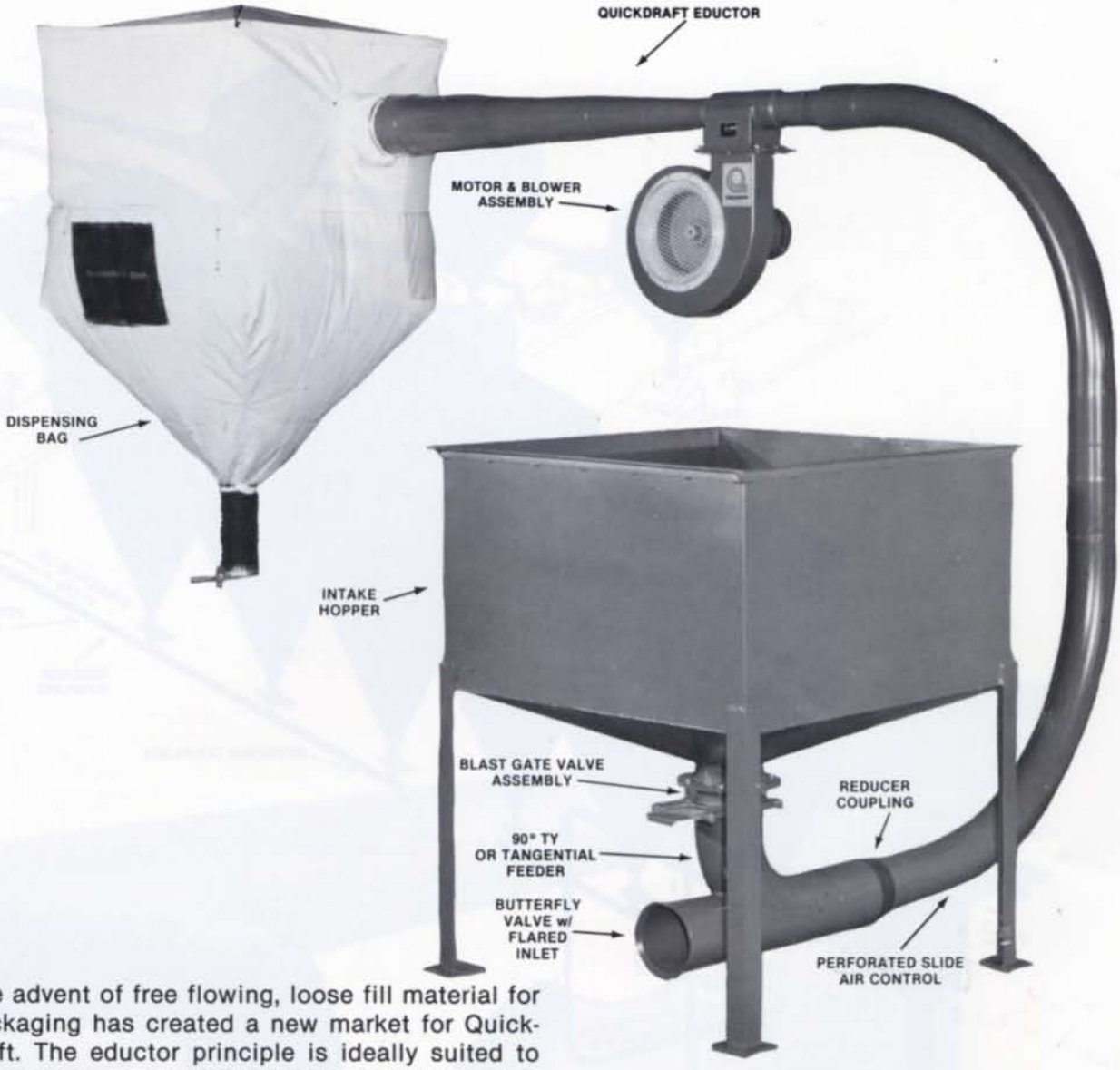


System No. 7

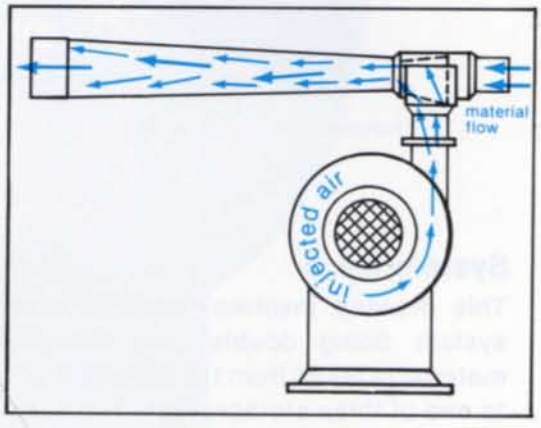
A Quickdraft MH unit can be permanently installed in a trailer for bulk delivery of loose fill material. This system utilizes a manifold extending part way down the length of the trailer with covered openings at intervals. By connecting the flexible hose to the manifold openings as they are uncovered by removal of the material, it is possible to use a short length of hose which minimizes the resistance to flow. It is also easier to manipulate. The material, in this illustration, is being blown into a large container, with a multi-hopper bottom, suspended over ten packaging stations. the container is also used as storage and is large enough to take full truckload deliveries.

System No. 8

Speedy evacuation of bulk truckloads can be accomplished using a specially designed pickup wand with flex hose. This system shows a permanently installed Quickdraft MH unit at the customer's loading dock, removing the bulk material from the truck and conveying it into a storage container. A second system conveys the material from storage to dispensing stations. This arrangement offers the alternative of receiving the material in bags which can be dumped into the hopper and conveyed to storage by the same, permanently installed, Quickdraft unit. The capped, TY section shown above the Quickdraft unit offers yet another alternative of a Quickdraft equipped trailer attaching at this point and by-passing the hopper and permanently-installed Quickdraft, to go directly to storage.

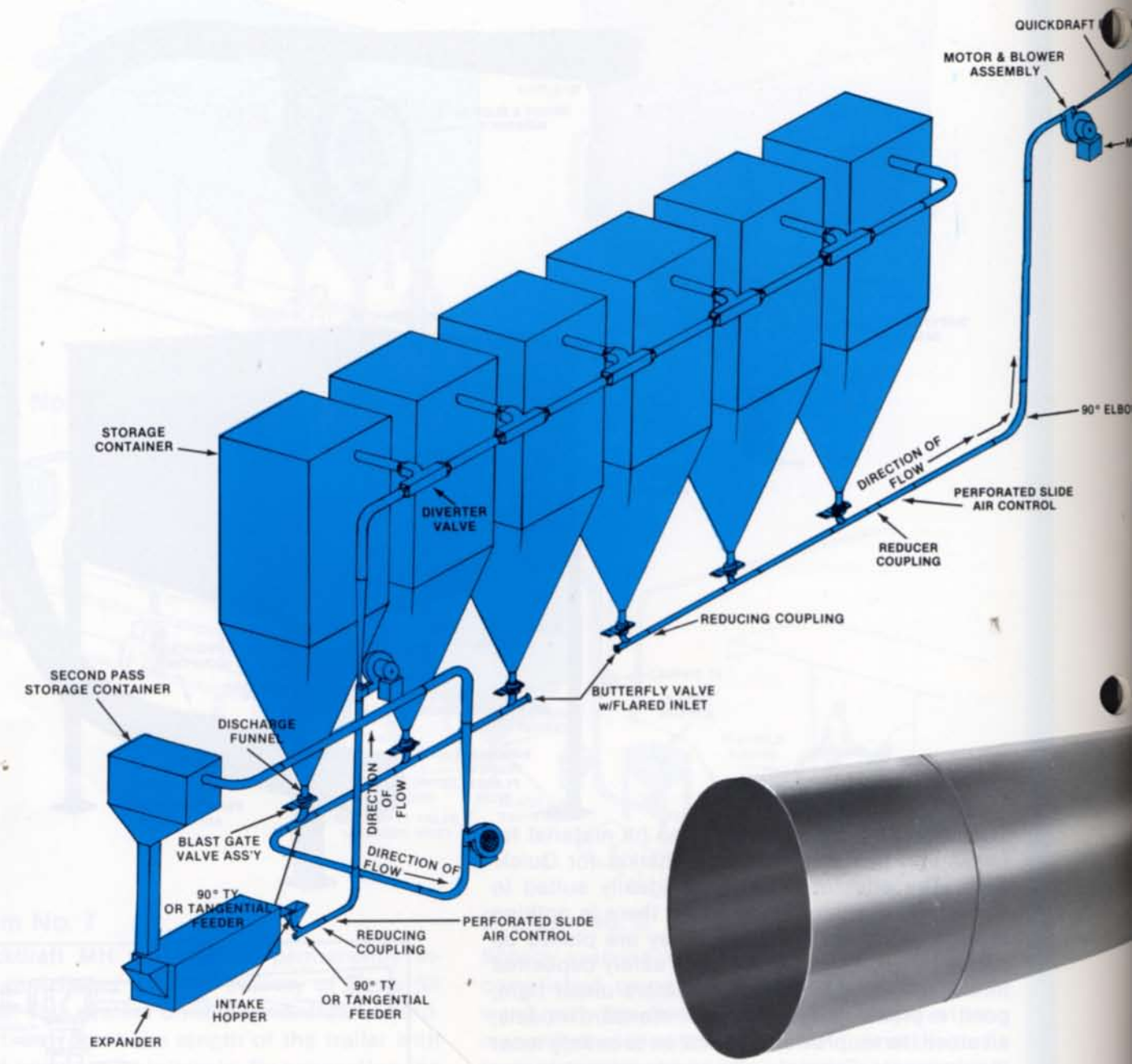


The advent of free flowing, loose fill material for packaging has created a new market for Quickdraft. The eductor principle is ideally suited to convey these materials because there is nothing in the line to damage them. They are picked up gently by negative pressure and safely deposited in storage or dispensing containers under light, positive pressure. Twenty-seven standard models, all stock items, provide a selection to satisfy most requirements. Special units and components can be supplied for exceptionally high volume conveying over long distances. A variety of system components are available, such as those illustrated above. The hopper provides the best method for getting the material into the system and the blast gate valve controls the flow out of the hopper. The TY fitting, long radius bends and interconnecting duct are smooth wall steel tubing, put together with slip couplings, to present a continuous surface without projections into the air stream. A perforated slide air control is installed immediately downstream of the material entry. This control permits variation in velocity and suction at the intake hopper. The storage container is a hopper dispenser with a scissors valve. All items are available from Quickdraft.



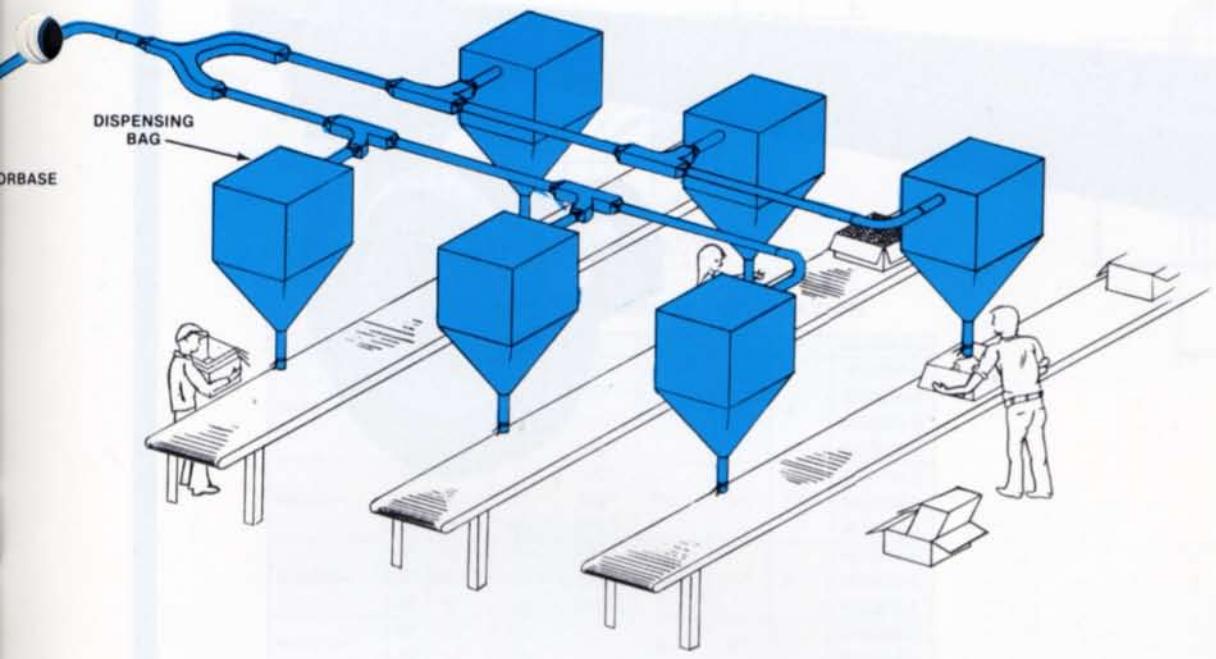
Dark arrows indicate material flow, light arrows are injected air from the blower.

Close control of injected air is possible using a machined blast gate damper between the blower outlet and the eductor plenum.



System No. 9

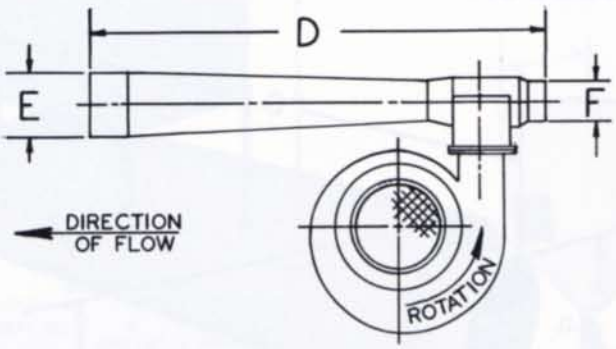
This drawing involves three systems with one system doing double duty. Single expanded material is taken from the expander and conveyed to one of three storage bags. The same system is used to take second pass material from the expander to any one of three final storage bags. A separate system is required to move the loose fill from single expanded storage back to the expander for the second pass. The third system transfers the material from final storage to the dispensing bags. The flow is directed as required through a system of diverter valves which can be operated manually or by air cylinder actuators. A control panel can be provided which will allow selection of the proper valve positions by simply pressing the proper button.

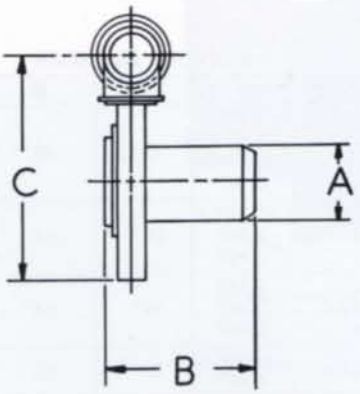


This cutaway view of the Quickdraft eductor tube shows how the annular nozzle is formed.

These illustrations show our standard Quickdraft MH units for horizontal and vertical installation. The vertical arrangement includes a foot-mounted motor bolted to a base. this permits the unit to sit on the floor, or other platform, close to the feed hopper and blow material to a receiver. If space is a problem, the Quickdraft unit can be installed in the horizontal position at the required elevation and be supported from above. A mounting support bracket is supplied with the horizontal units when the blower assembly exceeds 50 lbs. They can also be equipped with a motor base if required.

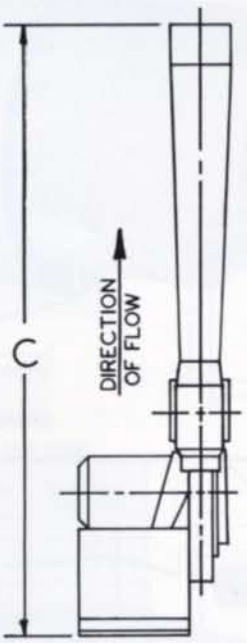
Quickdraft

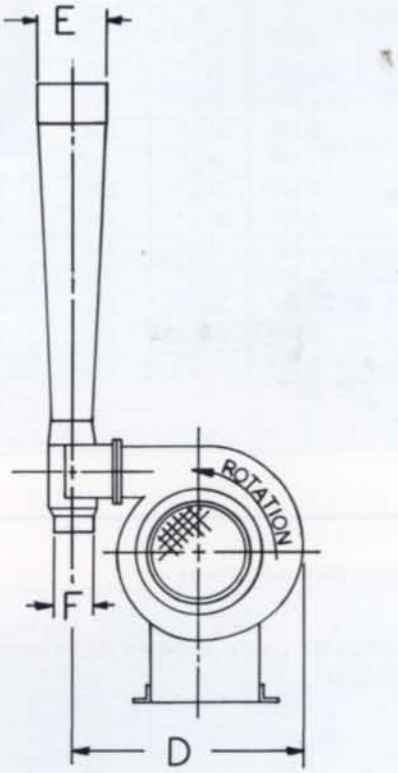




ARRANGEMENT "C" HORIZONTAL INSTALLATION

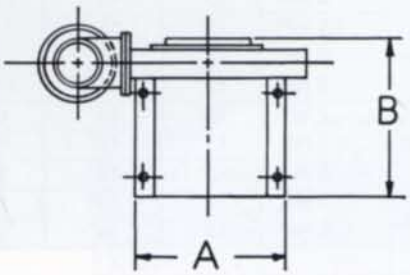
MODELS		A	B	C	D	E	F	BULLETIN NO.
MH458—	1 HP	6½"	14¼"	19"	74⅛"	8"	4"	MU2657-4
	1½ HP	6½"	14¾"	19"				MU2660-4
	2 HP	6½"	15⅛"	22$^{5}/_{16}$"				MU2663-4
	3 HP	6½"	15⅛"	24$^{5}/_{16}$"				MU2666-4
MH559—	1½ HP	6½"	15"	19⅜"	77¾"	9"	5"	MU2710-5
	2 HP	6½"	14¾"	19⅜"				MU2713-5
	3 HP	6½"	15⅛"	24$^{15}/_{16}$"				MU2716-5
MH6510—	2 HP	6½"	15⅛"	23⅜"	83¾"	10"	6"	MU2810-6
	3 HP	6½"	15⅛"	22⅝"				MU2813-6
	5 HP	9"	15⅝"	25⅝"				MU2816-6
MH7512—	3 HP	6½"	15⅛"	23⅜"	91"	12"	7"	MU2863-7
	5 HP	9"	15⅝"	26⅛"				MU2866-7





ARRANGEMENT "D" VERTICAL INSTALLATION

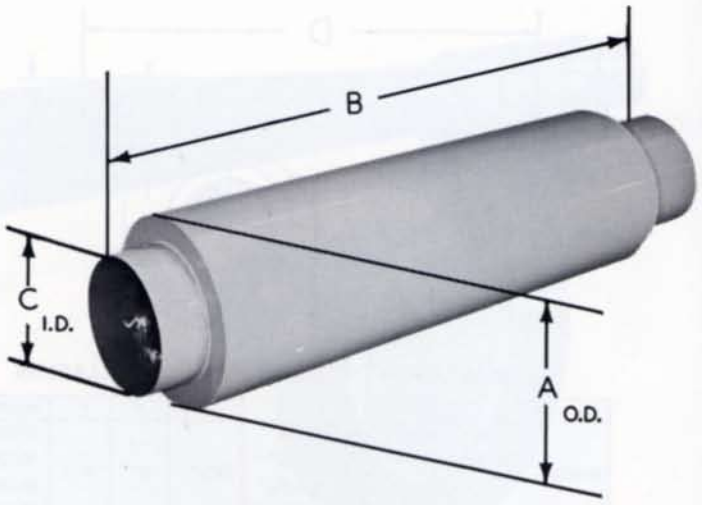
MODELS		A	B	C	D	E	F	BULLETIN NO.
MH458—	1 HP	12"	16½"	87$^{15}/_{16}$"	19"	8"	4"	MU10078-4
	1½ HP	12"	16½"	87$^{15}/_{16}$"	19"			MU10079-4
	2 HP	12"	16⅝"	87¾"	22$^{5}/_{16}$"			MU10080-4
	3 HP	12"	16⅝"	88$^{13}/_{16}$"	24$^{5}/_{16}$"			MU10081-4
MH559—	1½ HP	12"	16½"	94$^{5}/_{16}$"	19⅜"	9"	5"	MU10104-5
	2 HP	12"	16½"	94$^{5}/_{16}$"	19⅜"			MU10105-5
	3 HP	12"	16⅝"	94$^{15}/_{16}$"	24$^{15}/_{16}$"			MU10106-5
MH6510—	2 HP	12"	16⅝"	104"	23⅜"	10"	6"	MU10129-6
	3 HP	12"	16⅝"	104"	22⅝"			MU10130-6
	5 HP	14"	18⅝"	105$^{1}/_{16}$"	25⅝"			MU10131-6
MH7512—	3 HP	12"	16⅝"	117"	32⅛"*	12"	7"	MU10155-7
	5 HP	14"	18⅝"	118$^{1}/_{16}$"	34⅜"*			MU10156-7



90 Twist Transition Included

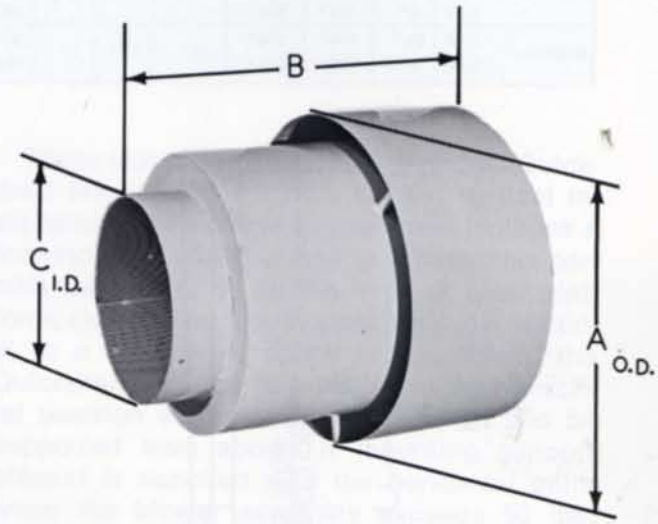
EXHAUST SILENCER

MODELS		A	B	C
MH458—	1 HP 1½ HP 2 HP 3 HP	12″	48″	8″
MH559—	1½ HP 2 HP 3 HP	13″	54″	9″
MH6510—	2 HP 3 HP 5 HP	14″	54″	10″
MH7512—	3 HP 5 HP	16″	60″	12″



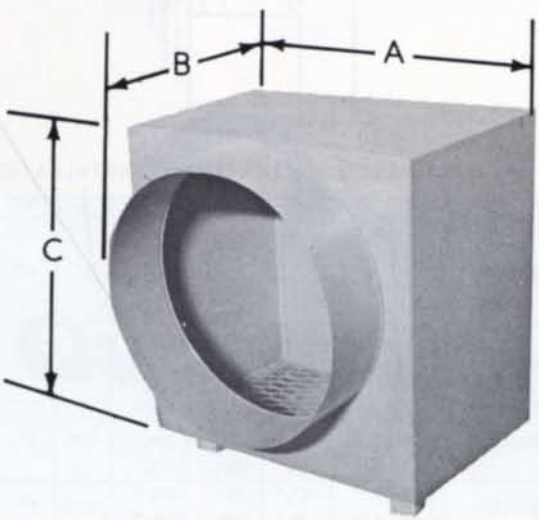
INTAKE SILENCER

MODELS		A	B	C
MH458—	1 HP	16½″	15″	9″
	1½ HP	21½″	23¾″	9⅞″
	2 HP	21½″	23¾″	11″
	3 HP	21½″	23¾″	12⅞″
MH559—	1½ HP	16½″	15″	9″
	2 HP	21½″	23¾″	9⅞″
	3 HP	21½″	23¾″	12⅞″
MH6510—	2 HP	21½″	23¾″	11″
	3 HP	21½″	23¾″	11″
	5 HP	21½″	29¾″	11″
MH7512—	3 HP	21½″	23¾″	11″
	5 HP	21½″	29¾″	11″



ACOUSTIC LINED BLOWER INLET HOOD

MODELS		A	B	C
MH458—	1 HP	11″	13″	14″
	1½ HP	12″	13″	17″
	2 HP	13″	14″	15″
	3 HP	15″	15″	18½″
MH559—	1½ HP	11″	13″	14″
	2 HP	12″	13″	17″
	3 HP	15″	15″	18½″
MH6510—	2 HP	13″	14″	15″
	3 HP	13″	14″	15″
	5 HP	13″	14″	15″
MH7510—	3 HP	13″	14″	15″
	5 HP	13″	14″	15″



ACCESSORIES

INTAKE HOPPER

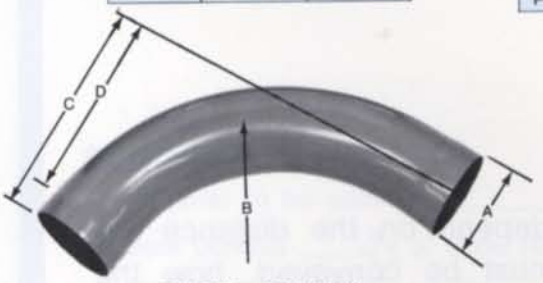
PART NO.	A (SQ. I.D.)	B (OVERALL HEIGHT)
A-1340-F	18"	44"
A-1341-F	24"	44"
A-1342-F	30"	48"
A-1343-F	36"	48"
A-1344-F	42"	54"
A-1345-F	48"	54"

DISPENSING BAG

PART NO.	A (SQUARE O.D.)	B (HEIGHT)	CUBIC FEET
P-1357-F	40"	5'-8"	20
P-1358-F	40"	7'-8"	40

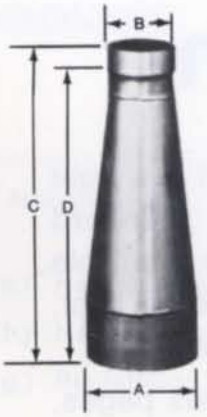
VOLUME DAMPER

SIZE	A
QP MODELS 7911-7	7"
MH MODELS 7911-9	9"



BELL END — 90° ELBOW

PART NO.	A (I.D.)	B (C.L.R.)	C (OVERALL LENGTH)	D (EFFECTIVE LENGTH)
P-207-F	4"	10"	12"	10¾"
P-208-F	5"	12½"	15¼"	13¾"
P-209-F	6"	15"	18¼"	16¾"

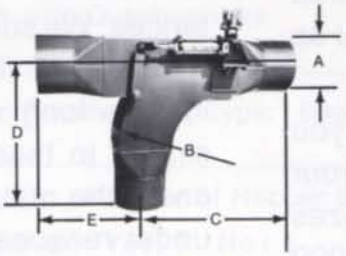


REDUCING COUPLING

PART NO.	A (O.D.)	B (I.D.)	C (OVERALL LENGTH)	D (EFFECTIVE LENGTH)
P-1359-F	5"	4"	8"	6¾"
P-1360-F	6"	4"	15¾"	14⅜"
P-1361-F	6"	5"	9"	7⅛"
A-1362-F	7"	5"	15⅛"	14"
A-1363-F	7"	6"	12"	10"
P-1364-F	8"	6"	17⅛"	16"
A-1365-F	8"	7"	13"	11"

PLAIN END — 90° ELBOW

PART NO.	A (O.D.)	B (C.L.R.)	C (EFFECTIVE LENGTH)
P-1275-F	4"	30"	36⅛"
P-1276-F	5"	30"	40"
P-1277-F	6"	30"	42"
P-1278-F	7"	10½"	12½"
P-1279-F	8"	20"	24¼"
P-1280-F	10"	32"	47"

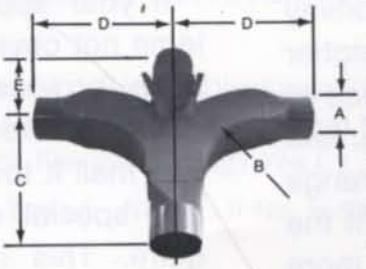


TWO-WAY 90° STD. DIVERTER VALVE

PART NO.	A (O.D.)	B (C.L.R. @ 90°)	C	D	E
A-1313-F	6"	9"	19⅛"	17⅛"	13"
A-1314-F	7"	10⅛"	20⅛"	18⅛"	14"
A-1315-F	8"	12"	23"	21"	15"
A-1316-F	9"	13"	24"	22"	15⅛"
A-1317-F	10"	14"	25"	23"	16"
A-1318-F	12"	16"	27"	25"	18"

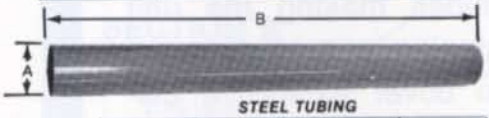
SPIRAL DUCT — GALVANIZED STEEL

PART NO.	A (DIAMETER)	GAUGE	B (OVERALL LENGTH)
P-1415-F	4"	22	20'
P-1416-F	5"	22	20'
P-1417-F	6"	22	20'
P-1418-F	7"	22	20'
P-1419-F	8"	22	20'
P-1420-F	9"	22	20'
P-1421-F	10"	22	20'
P-1422-F	11"	22	20'
P-1423-F	12"	22	20'



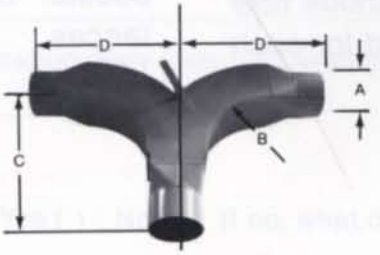
3-WAY 90° DIVERTER VALVE

PART NO.	A (O.D.)	B (C.L.R. @ 90°)	C	D	E
A-1325-F	6"	9"	19⅛"	17⅛"	13"
A-1326-F	7"	10⅛"	20⅛"	18⅛"	14"
A-1327-F	8"	12"	23"	21"	15"
A-1328-F	9"	13"	24"	22"	15⅛"
A-1329-F	10"	14"	25"	23"	16"
A-1330-F	12"	16"	27"	25"	18"



STEEL TUBING

PART NO.	A (O.D.)	B (OVERALL LENGTH)	GAUGE
P-1249-F	4"	20'-0"	#16
P-1250-F	5"	20'-0"	#14
P-1251-F	6"	20'-0"	#14
P-1252-F	7"	20'-0"	#14
P-1253-F	8"	20'-0"	#14
P-1254-F	9"	20'-0"	#14
P-1255-F	10"	20'-0"	#14
P-1256-F	12"	20'-0"	#14



TWO-WAY—Y—90° DIVERTER VALVE

PART NO.	A (O.D.)	B (C.L.R. @ 90°)	C	D
A-1319-F	6"	9"	19⅛"	17⅛"
A-1320-F	7"	10⅛"	20⅛"	18⅛"
A-1321-F	8"	12"	23"	21"
A-1322-F	9"	13"	24"	22"
A-1323-F	10"	14"	25"	23"
A-1324-F	12"	16"	27"	25"

NOTE: *Effective length is actual length less the length of Bell Ends. For fittings without Bell Ends the effective length is also the overall length and diameters are shown as O.D.*

Whatever Your Problem, We Have A Solution

Fifteen standard models of the light duty QP units and twelve standard models of the MH units are available from stock to meet your needs for light, medium or heavy duty applications.

As illustrated on the previous pages, a variety of accessories can be ordered to make up a complete system if you so desire.

Page 19 contains charts to help you select the model best suited to your particular needs. The range of sizes covers material flow rates as high as 4000 cubic feet per hour if you wish to convey loose fill packaging material. The higher density EPS beads can be conveyed at material flow rates up to 2500 cubic feet per hour in the 1 to 3 lb. density range or up to 1000 cubic feet per hour if the density is over 3 pounds and not more than 5 pounds per cubic foot. The charts indicate duct diameters for various flow rates. The horsepower required for each size will depend on the distance the material must be conveyed, how the material is fed into the system and how much resistance is imposed by the fittings, elbows and receiving vessel. Naturally, the highest horsepower would be used for the longer conveying distances. We suggest the maximum be 150 to 200 feet if the system components include long radius elbows and fittings similar to those shown in this brochure and if the material is fed into the system under reasonably controlled conditions.

If your application has special problems not covered by the information we have provided, please complete the questionnaire on the next two pages and mail it to us. We will size and price any special equipment you might require. This includes making the unit portable or designing a system using booster units to cover excessive distances.

QUICKDRAFT • 1525 PERRY DRIVE, S.W. • P.O. BOX 80659 • CANTON, OH 44708-9973 • PHONE: 216/477-4574 • FAX: 216-477-3314

NAME _____ DATE _____

COMPANY _____ REF. YOUR _____

ADDRESS _____ DATED _____

_____

TELEPHONE _____

QUESTIONNAIRE

SECTION A

1. Material to be conveyed _____

2. Bulk Density ____ $\frac{lb.}{cu.\ ft.}$ 3. Flow Rate ____ $\frac{cu.\ ft.}{hr.}$ 4. Nominal Size ____ 5. Moisture Content____

6. System Application

(a) From Expander to Storage ( ) (e.) New Supply Bags from Hopper to Storage ( )

(b) From Storage to Expander ( ) (f.) New Supply (Bulk) from Truck to Storage ( )

(c) From Storage to Packaging Station ( ) (g.) Reclaiming Material from Boxes to Storage ( )

(d) From Expander to Packaging Station ( )

NOTE: Include System Sketch with Questionnaire

7. Conveying Distance: Vertical _____ ft. Horizontal _____ ft. No. of Bends _____

8. Storage or Packaging Station Receiver: (a) Type: Bag ( ) Bin ( ) Other ( )

Describe _____

(b) Dimensions: L____W____H____ Number of Hopper Bottoms _____ Volume Capacity _____

(c) Will Quickdraft Supply Receiver? Yes( ) No ( )

(d) Clearance Required Under Packaging Station Receiver _____

9. Material Feeder:

(a) From Hopper? Yes ( ) No ( ) Bottom Discharge Elevation _____ Ft.
Note: Should Be High Enough To Install A Standard 90° TY Tube Section 8" In Diameter (Minimum Height 18") (b) Flexible Tubing? Yes ( ) No ( ) Length _____ FT.

10. Material Sample Enclosed? Yes ( ) No ( ) If No, is Sample available? Yes ( ) No ( )

SECTION B

1. Unit Location: Inside ( ) Outside ( ) Any Restrictions on Unit Location in System? Yes ( ) No ( )
Explain _____

2. Ambient Conditions at Blower Location: Very Dirty ( ) Average ( ) Clean ( )

3. Tolerable Sound Level _____ dba

SECTION C

1. Will Quickdraft Supply the Duct? Yes ( ) No ( ) If no, what duct will be used? _____

2. Power Supply Available: Phase _____ Voltage _____ Cycle _____

3. Motor Enclosure Required: Open, Drip-Proof ( ) TEFC ( ) TENV ( ) TEXP ( )
Other _____

4. Finish: Standard (machine gray enamel) Special Color (state requirements) _____

SECTION D

AUTOMATIC CONTROLS: Total _____ Semi _____

1. Motor Start/Stop
Central Location _____ No. of Remote On/Off Locations _____

2. No. of Automatic Diverters _____

3. High/Low Supply Sensors: No. of High _____ No. of Low _____
Sensors will Start/Stop System? Yes ( ) No ( )
Sensors will only signal condition? Yes ( ) No ( ) If yes, state type of signal desired and signal locations _____

SECTION E

1. Need: Urgent ( ) Within 60 Days ( ) Future ( )

2. Price: Firm ( ) Budget ( )

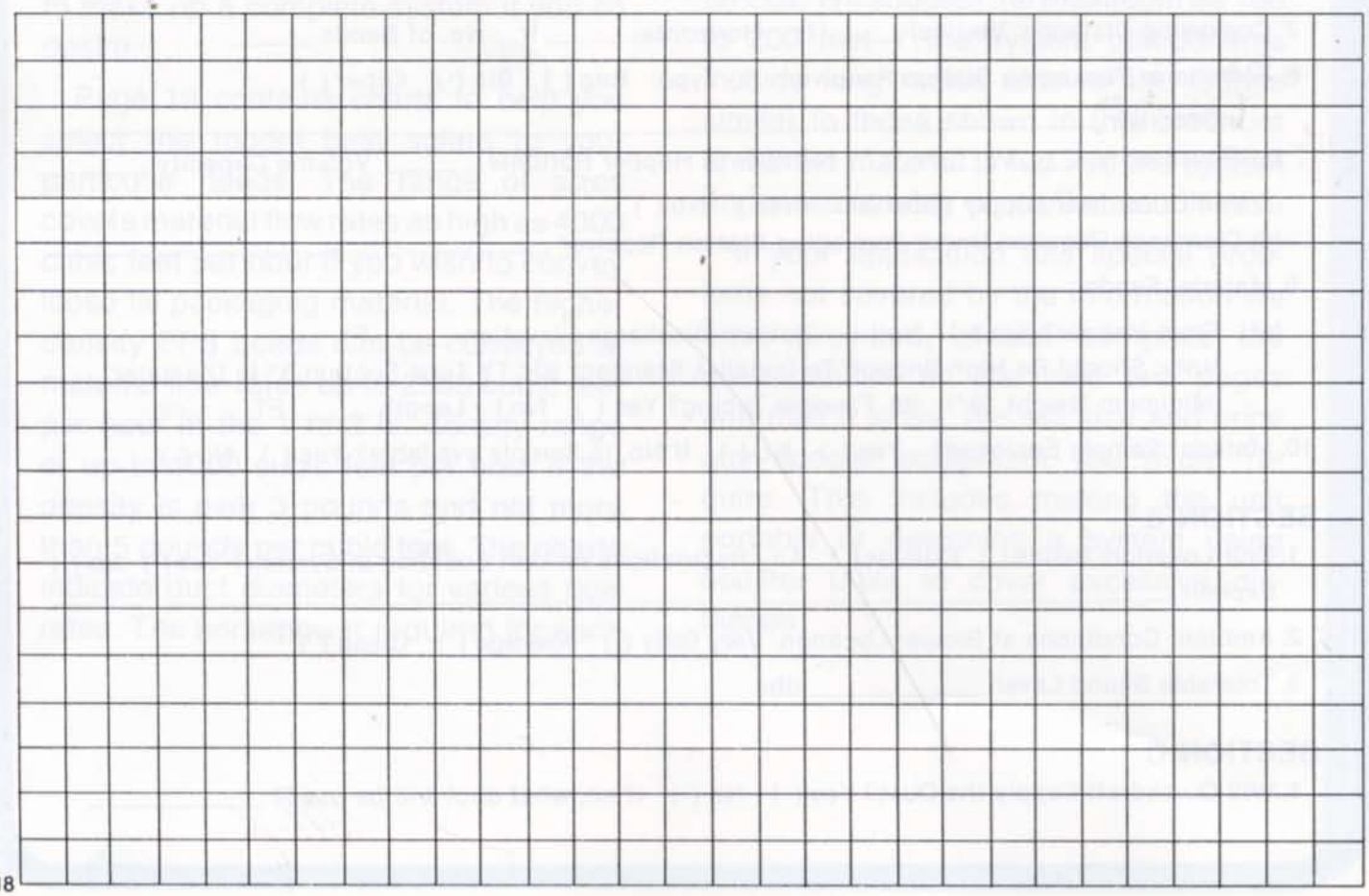
3. What Alternatives Are Being Considered? _____

USE SPACE BELOW TO MAKE A ROUGH SKETCH TO INCLUDE THE FOLLOWING INFORMATION:

(1) FLOOR TO CEILING HEIGHT. (2) HEIGHT TO UNDERSIDE OF JOISTS.

(3) WHAT CLEARANCE IS REQUIRED UNDER THE RECEIVING UNIT?

(4) WHAT OBSTACLES ARE IN THE AREA: TRAVELING CRANES, VENTILATING OR HEATING DUCTS. POWER LINES OR CONDUIT, ETC.



SELECTION DATA FOR CONVEYING LOOSE FILL PACKAGING MATERIAL

Our tests indicate that the minimum duct diameter to convey loose fill is 5". The relatively large size of the pieces takes up too much space in the duct and leaves insufficient room for conveying air if anything smaller is used. To avoid this condition, the chart below lists the material flow limitations for a specific eductor and duct size.

EDUCTOR	DUCT DIAMETER (INCHES) INLET	OUTLET	MAXIMUM MATERIAL FLOW RATE (CU. FT./HR.)
QP4CA*	5	6	200
QP5CA	5	7	500
QP6CA	6	8	1000
QP7CA	7	9	1500
MH559	5	9	2000
MH6510	6	10	3000
MH7512	7	12	4000

NOTE: Consult factory when flow rate exceeds 4000 Cu. Ft./Hr.

*Reducer required 5" x 4" to match eductor inlet

SELECTION DATA FOR CONVEYING EXPANDABLE POLYSTYRENE BEADS

The increased bulk density of EPS beads, compared to loose fill packaging material, requires a large air to material ratio to allow conveying of any significant volume of beads. To provide this ratio, specific Quickdraft eductor sizes and duct diameters are required as listed in the chart below.

EDUCTOR	DUCT DIAMETER (INCHES) INLET	OUTLET	BULK DENSITY (LBS/CU. FT.)	MAX. MATERIAL FLOW RATE (CU. FT./HR.)	BULK DENSITY (LBS./CU. FT.)	MAX. MATERIAL FLOW RATE (CU. FT./HR.)
MH458	4	8	1 to 3	750	3 to 5	375
MH5510	5	10	1 to 3	1200	3 to 5	550
MH6510	6	10	1 to 3	1700	3 to 5	750
MH7512	7	12	1 to 3	2500	3 to 5	1000

NOTE: For larger flow rates, greater bulk densities or exceptionally long conveying distances, consult the factory.

SERVICES

Although applications may involve conveying the same type of material, there are always differences in the methods of collecting, points of pick up, conveying distances and duct routing.

Quickdraft conveying systems are designed specifically to meet the unique requirements of each customer's application. Our personnel are highly qualified and experienced in evaluating the customer's problem and determining the most efficient system design. Highly skilled shop personnel combined with a well equipped manfacturing facility enable us to fabricate parts accurately and supply systems that are easily assembled and installed.

Our R & D facilities provide the capability to take a sample of the customer's material and test it in a system simulating the proposed application. Customers are invited to send samples of materials along with details of duct routing, flow quantities, etc., and let us show you how Quickdraft can solve your problem. An open invitation is extended to all customers to visit our plant and observe their system in action. As the saying goes, "Seeing is believing."

Quickdraft

DIVISION OF C.A. LITZLER CO., INC.

P.O. Box 80659 • Canton, OH 44708-9973 • Phone 216/477-4574 • FAX 216/477-3314