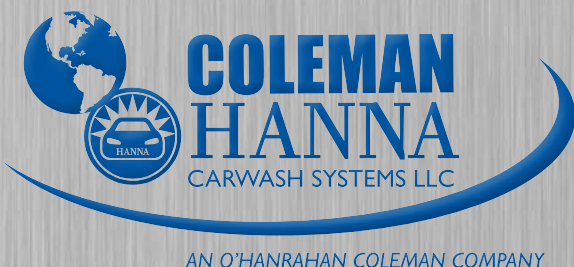




Image Arch

Service Manual



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DESIGN FEATURES

HCW STAINLESS STEEL ARCH

- STAINLESS STEEL CONSTRUCTION
- EASY-ACCESS PANELS
- SIDE TO SIDE INSIDE VEHICLE CLEARANCE 113"
- OVERHEAD VEHICLE CLEARANCE 92"
- INCLUDES SOLENOID VALVE AND CHECK VALVES
- COLOR DECALS FOR PROCESS IDENTIFICATION

HCW Arches are designed to deliver water, chemical and chemical solutions to the vehicle when and where needed. They come in a variety of configurations for specific applications.

The newest HCW arches are taller and wider to allow for the placement of diaphragm operated check valve assemblies. These assemblies allow instant shut-off, and prevent the chemical solutions from draining out of the arch between applications. The new dimensions (113" width, 92" height) allow for the placement of these check valves while still maintaining a 110" width clearance and 90" height clearance. The new color coded nylon jets add both versatility and long life. Additionally, they allow a color dimension to the arches and allow easy cleaning and replacement.

OPERATIONAL FEATURES

Water Arches

Pre-Rinse, Pre-Final Rinse, Final Rinse

Water arches such as pre-rinse, pre-final rinse and final rinse arches can utilize either fresh water or reclaimed water for the purpose of wetting or rinsing the automobile before or after cleaning operations. Generally, pre-rinse and pre-final rinse operations can utilize reclaimed water for rinsing. Most operators prefer fresh water or R/O (Reverse Osmosis) water for final rinse operations.

If reclaimed water is used for rinsing operations, naturally a reclaim pump is required. In which case, filtered water is pumped from the reclaim tanks, through the arch valving when energized, and through the arch to the vehicle. Many states require the use of reclaim water systems for purposes of water conservation, and such systems are available through Hanna.



OPERATIONAL FEATURES

If fresh water is used, pressurized fresh water flows through the arch valving when energized, and through the arch and to the vehicle. In areas where low water pressure may be a problem, a water pressurization system may be required. This system is available through Hanna.

R/O water, or Reverse Osmosis water is provided by a Reverse Osmosis Generating system. This water is specially cleaned and ionized to rinse the vehicle and run off without spotting. Generally, when R/O water is used, additional drying agents are not necessary. Plastic valving is recommended and used in the spot free arches. The R/O system provides water through the arch valving when energized, through the arch and to the vehicle.

Solution Arches

wax, Sealer Wax and Drying Aid arches

Solution Arches such as wax, sealer wax, and drying agent arches can be either dema injection fed or fed through the use of a chemical pumping station. Chemical solutions flow through the applicator valving when energized, through the arch and on the vehicle.

When an injector is used, water flow passes through the injector where it draws chemical through suction from a chemical source. Since these arches are relatively low pressure devices, the chemical source must be pre-diluted to enable the dema to extract it. This means that the operator must have a constant source of pre-mixed chemicals available. Dema Injectors and chemical mixing stations are available through Hanna.

Chemical pumping stations are the preferred method of feeding chemical arches. The type of pumping station is determined by the application and premix concentration of chemical being used. We at Hanna presently market three types of chemical pumping stations: the air-type pumping station (air-operated pumps), the liquid flow type station (Dosatron pumps), and the electrical type pumping station (Pulsatron pumps).

Foaming Arches

Soap and Polish Arches

Foaming arches such as Soap and Polish foamer arches, like chemical arches, require the use of an injector or pumping station. In addition, they require pressurized air.

The chemical solution and pressurized air are provided to the arch through the arch valving when energized. They are then mixed together at the foam generator on the arch. The foam generator creates micro-bubbles in the form of foam. This foam travels through the arch where it is applied to the vehicle.



ASSEMBLY & INSTALLATION

Assembly of Hanna arches are quick and easy, since all of the arches are pre-assembled at the plant. Generally, a set of mechanics hand tools is all that is required on the job site. The only power tool required is a drill and concrete bit to set the anchor bolts.

Determine the type and location of the arches in the system. If replacing an existing arch, remove the old one and prepare the site for the new arch.

CAUTION: Stainless Steel used in the arches is cut on an industrial shear. We make every effort to remove sharp edges. However, when handling the stainless material, we highly recommend the use of protective gloves to prevent injury.

1. Remove the arch from the packing crate. A nut and bolt kit is provided for assembling the arch.
2. Lay the arch out on the floor on a tarpaulin or similar protective material to prevent damage to the arch. If provided with decals, the decals will all face the front of the arch as seen through the vehicle window. The arch header will have the Hanna decal, and the leg sections will have the arch application decals. These provide a quick reference for which leg goes on which side, and which direction the arch will face when it is complete.
3. Insert the foot weldment into the bottom of each leg, with the welded flat flange facing the sides of the leg. Align the holes in the foot with the holes in the leg.
4. From the nut and bolt kit, acquire four stainless steel 3/8" x 1" round head Allen screws, four stainless steel 3/8" flat washers, and four stainless steel 3/8" ESNA nuts for each leg.
5. Insert the screws from the outside of the leg into the holes in the leg and through the holes in the foot weldment.

NOTE: Stainless steel nuts and bolts are notorious for seizing when being tightened. We recommend a drop of oil or similar anti-seize lubricant be applied to all bolts prior to installing nuts.

6. On the inside of the leg, place one flat washer and one nut on each screw.
7. Using the appropriate size Allen wrench and a 9/16" socket or end wrench, snug, but do not tighten the nuts on the screws.
8. Support the arch header horizontally with three pieces of 4 x 4 or similar sized material. This will allow the assembler to get under the header to access the corner screws during assembly.
9. Insert the leg section into the 45° angled corner at the arch corner bracket aligning the holes in the bracket with the holes in the leg.

Hanna Car Wash Systems Stainless Steel Image Arche



10. From the nut and bolt kit, acquire four stainless steel 5/16" x 3/4" round head Allen screws, four stainless steel 5/16" flat washers, and four 5/16" ESNA nuts for each of the two corners.
 11. Insert the 5/16" x 3/4" round head Allen screw into the holes in the corner bracket and through the holes in the leg.
- NOTE:** Stainless steel nuts and bolts are notorious for seizing when being tightened. We recommend a drop of oil or similar anti-seize lubricant be applied to all bolts prior to installing nuts.
12. On the inside of the corner bracket, install one 5/16" washer and one 5/16" ESNA nut per screw.
 13. Using the appropriate size Allen wrench and a 1/2" socket or end wrench, snug, but do not tighten the nuts on the screws.
 14. The following procedures relate to specific arches and should be followed for that application.

Pre-Rinse / Pre-Final Rinse / Final Rinse / Wax Arches:

- a. Extending upward from the brass tee in the leg section, 1/2" polyflo has been provided to be connected with the brass tee inside the 45° arch corner. Holding the polyflo from the leg next to the brass tee in the corner, determine the length needed to connect with the tee. Leave at least 3/4" for insertion into the tee fitting.
- b. Cut off the excess polyflo with an appropriate cutting device. Try to make the cut as clean and square as possible.
- c. From the nut and bolt kit, acquire a brass polyflo insert. Install the insert into the end of the cut polyflo.
- d. Insert the polyflo with the brass insert into the open fitting on the tee.

NOTE: Do not over-tighten the nuts on the brass polyflo fittings. Over-tightening these nuts can cause damage to the polyflo. If the fitting is leaking, tighten only enough to stop the leak.

- e. Using an open end wrench, hand tighten, but do not over-tighten the nut on the brass tee.

Soap / Wax Foamer Arches:

- f. Extending upward from the brass tee in the leg section, 1/2" and 3/8" polyflo has been provided to be connected with the 1/2" and 3/8" nylon connectors inside the 45° arch corner. Holding the polyflo from the leg next to the nylon connectors in the corner, determine the lengths needed to make the connections. Leave at least 3/4" for insertion into the nylon connectors.



- g. Cut off the excess polyflo with an appropriate cutting device. Try to make the cut as clean and square as possible.

NOTE: Brass polyflo inserts are not required or desirable to be used on nylon connectors.

- h. Insert the 1/2" polyflo into the 1/2" nylon connectors, and the 3/8" polyflo into the 3/8" polyflo connectors.

NOTE: Do not over-tighten the nuts on the nylon polyflo connectors. Over-tightening these nuts can cause damage to the polyflo. If the connector is leaking, tighten only enough to stop the leak.

- i. Using an open end wrench, hand tighten, but do not over-tighten the nylon nut on the connectors.

15. Raise and stand the arch on its feet.
16. Move the arch into the desired position.
17. Adjust the feet of the arch to acquire a measurement of 113" between the front edges of the bottom of the arch, and place a level on the leg to insure that it is vertically aligned, front to back and side to side.
18. Mark the floor through the holes in the arch feet for installation of the 1/2" anchor bolts.
19. Drill the holes in the floor for the 1/2" anchor bolts.
20. Set the anchor bolts in the holes.
21. Position the arch feet on the anchor bolts.
22. Install the 1/2" flat washer and nuts provided with the anchor bolts.
23. Snug, but do not tighten the anchor nuts on the feet.
24. Recheck the distance and level of the arch and tighten the anchor nuts on the feet.
25. At the bottom of the arch leg, using the appropriate size Allen wrench and a 9/16" socket or end wrench, tighten the 3/8" ESNA nuts on the 3/8" x 3/4" round head Allen screws.



26. Using a step ladder, the appropriate size Allen wrench and a 1/2" socket or end wrench, tighten the 5/16" ESNA nuts on the 5/16" round head Allen screws at the corners of the arch.
27. Loosen the screws that hold the cover latch plate and handle in place and slide the latch plate to the bottom of its travel on the cover.
28. Loosely snug, but do not tighten the screws with the plate in the lowered position.
29. Install the cover onto the arch and leg, insuring that the top plate lip engages the bracket on the corner, and that the lower end of the cover is engaged in the lower leg bracket. The latch plates should slide into a comfortable locked position.
30. Gently remove the cover and tighten the latch plate screws.
31. Re-install the cover.

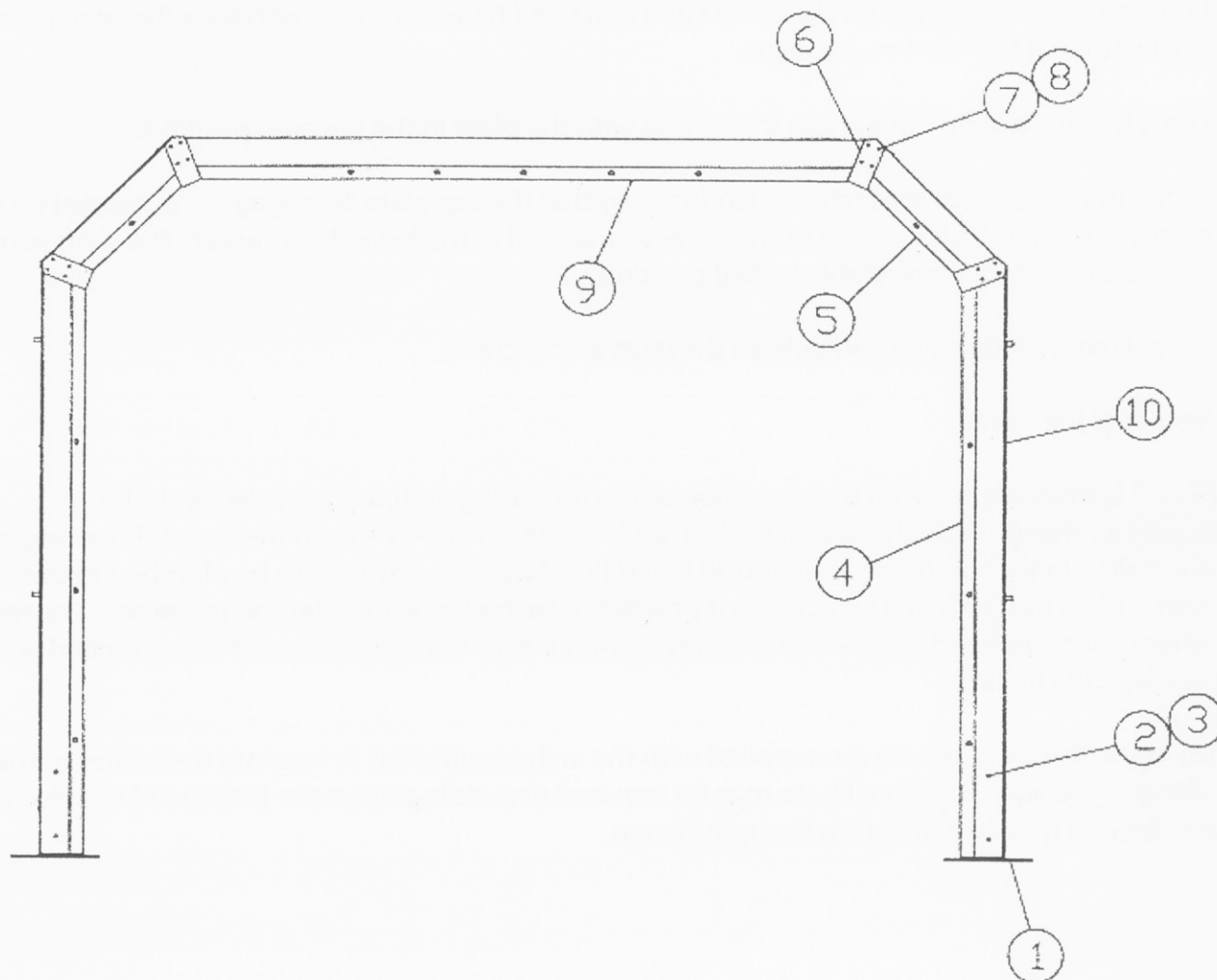
NOTE: All formed arches, with the exception of the oscillating arch, are provided with the appropriate valving. The valving sent is electrically operated at 24 volts. In the past, this valving has been installed in the top of the arch, and all liquid flow has been required to be plumbed to this location. This is the preferred location, as it provides a better liquid distribution to the arch. However, at the request of our field representatives, this valving is now being sent loose, to be plumbed at the discretion of the installer.

NOTE: Hose clamps and hose are supplied with the arches, sufficient to hook up the arches to the plumbing at the site. Additional hose may be required depending upon the location of the plumbing on the site, and may be purchased through Hanna.

Hanna Car Wash Systems Stainless Steel Image Arche



424378 HANNA ARCH ONLY NO PLUMBING, NO VALVES, NO JETS OR ACCESSORIES
PARTS BREAK-DOWN

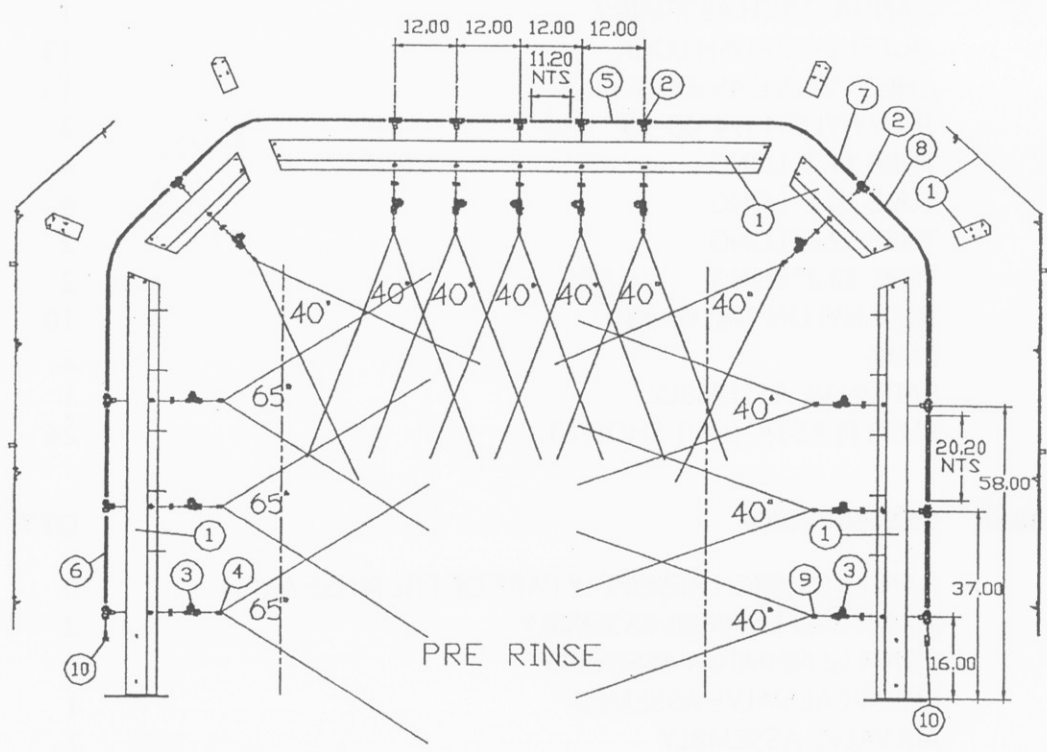


ITEM #	PART NUMBER	DESCRIPTION	QTY
1	800056	ARCH LEG BASE	2
2	353318	SCR BTN HD SOC SS 3/8" NC X 1"	8
3	365158	NUT ESNA SS 3/8" NC	8
4	807097	VERTICAL LEG WELDMENT	2
5	807096	ARCH CORNER 3 JET	2
6	802751	CORNER CONNECTION PIECE SS	4
7	361952	SCR BTN HD SOC SS 5/16" NC X 1"	32
8	365157	NUT ESNA SS 5/16"	32
9	806475	ARCH HEADER SS 15 JET UNIVERSAL	1
10	807089	BACK COVER ASSEMBLY	2

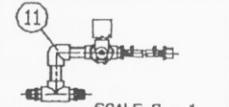
Hanna Car Wash Systems Stainless Steel Image Arche



424379 HANNA SOAP FOAM WITH PRE-RINSE ARCH



SPECIAL NOTE:



SCALE 2 : 1
 3/4" VALVE ASSEMBLY MAY BE INSTALLED IN POLYFOAM AS REQUIRED FOR PLUMBING AND WIRE FEED.

Hanna Car Wash Systems Stainless Steel Image Arche



PARTS BREAK-DOWN

PRE RINSE

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA ARCH ASSEMBLY	1
2	365422	BULKHEAD PUSH LOCK	13
3	806631	CHECK VALVE ASSEMBLY	13
4	363262	JET V NYLON 1/4" 65-15	3
5	806636	TUBE 11.2" LONG	4
6	806637	TUBE 20.2" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365619	JET V NYLON 1/4" 40-15	10
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	360085	PLUG PLASTIC (NOT SHOWN)	26

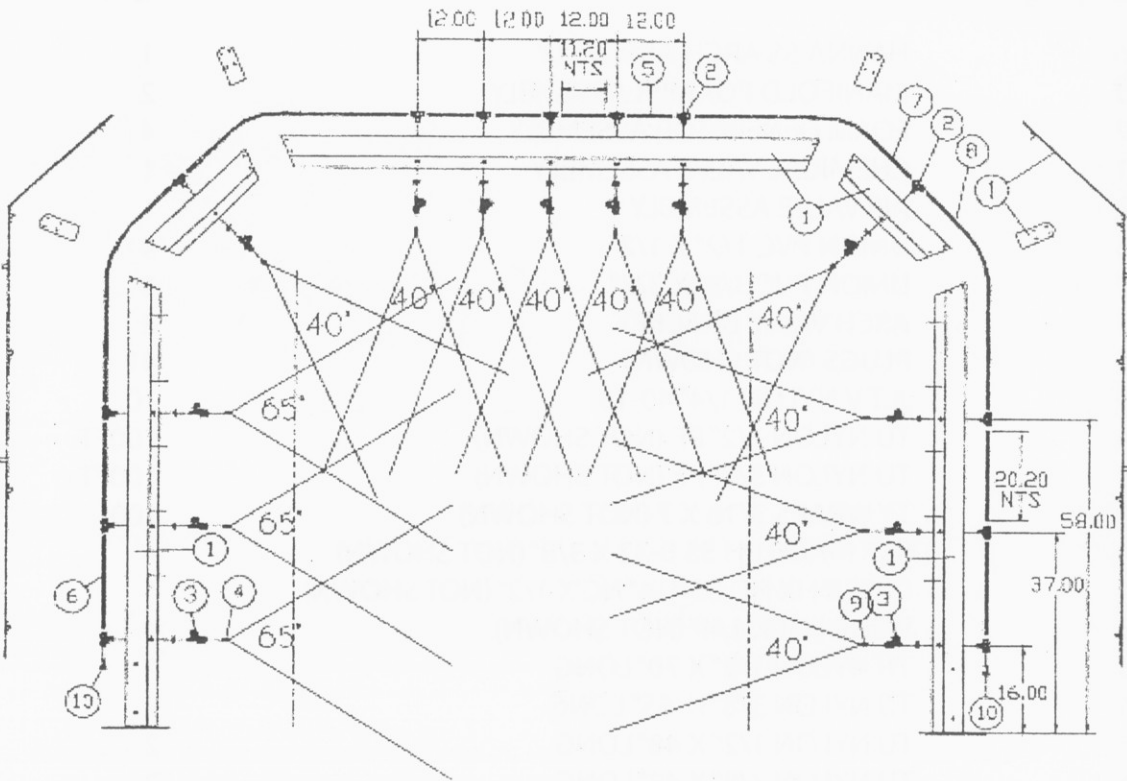
SOAP FOAM

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY PART OF PRE RINSE ARCH	0
2	806815	MANIFOLD FOAMER ASSEMBLY	2
3	806812	FOAM GENERATOR ASSEMBLY	4
4	806291	CHEMICAL VALVE ASSEMBLY	1
5	806292	AIR VALVE ASSEMBLY	1
6	317305	UNION PVC 1/2" X 1/2"	4
7	313437	UNION PVC 3/8" X 3/8"	4
8	800337	ARCH VALVE BRACKET	2
10	365619	JET V NYLON 1/4" 40-15	10
11	024604	TU NYLON 1/2" PF (NOT SHOWN)	100FT
12	024612	TU NYLON 3/8" PF (NOT SHOWN)	100FT
13	309831	TY WRAPS 3/16 X 7 (NOT SHOWN)	100
14	361574	SCR MACH PH SS 8-32 X 3/8 (NOT SHOWN)	4
15	362014	CPSCR HX HD SS 1/4 NC X 1/2 (NOT SHOWN)	4
16	363293	WSHR LOCK 1/4" (NOT SHOWN)	4
17	806853	TU NYLON 1/2" X 70" LONG	2
18	806854	TU NYLON 3/8" X 65" LONG	2
19	806855	TU NYLON 1/2" X 48" LONG	2
20	806856	TU NYLON 3/8" X 48" LONG	2
21	806857	TU NYLON 3/8" X 58" LONG	2
22	806858	TU NYLON 3/8" X 61" LONG	2
23	806859	TU NYLON 1/2" X 121" LONG	1
24	806860	TU NYLON 1/2" X 124" LONG	1
25	806861	TU NYLON 3/8" X 113" LONG	1
26	806862	TU NYLON 3/8" X 116" LONG	1
27	806863	TU NYLON 1/2" X 61" LONG	1
28	806864	TU NYLON 1/2" X 58" LONG	1

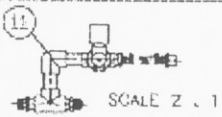
Hanna Car Wash Systems Stainless Steel Image Arche



424380 HANNA PRE-RINSE ARCH PARTS BREAK-DOWN



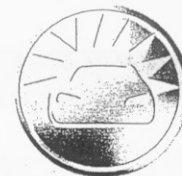
SPECIAL NOTE:



SCALE 2 : 1

3/4" VALVE ASSEMBLY MAY BE INSTALLED IN POLYFLUOROCARBON AS REQUIRED FOR PULVERIZED AND WIRE FEED.

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY	1
2	365422	TEE BULKHEAD PUSH LOCK	13
3	806631	VALVE ASSEMBLY	13
4	363262	JET V NYLON 1/4" 65-15	3
5	806636	TUBE 11.2" LONG	4
6	806637	TUBE 20.2" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365619	JET V NYLON 1/4" 40-15	10
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	360085	PLUGS PLASTIC (NOT SHOWN)	40



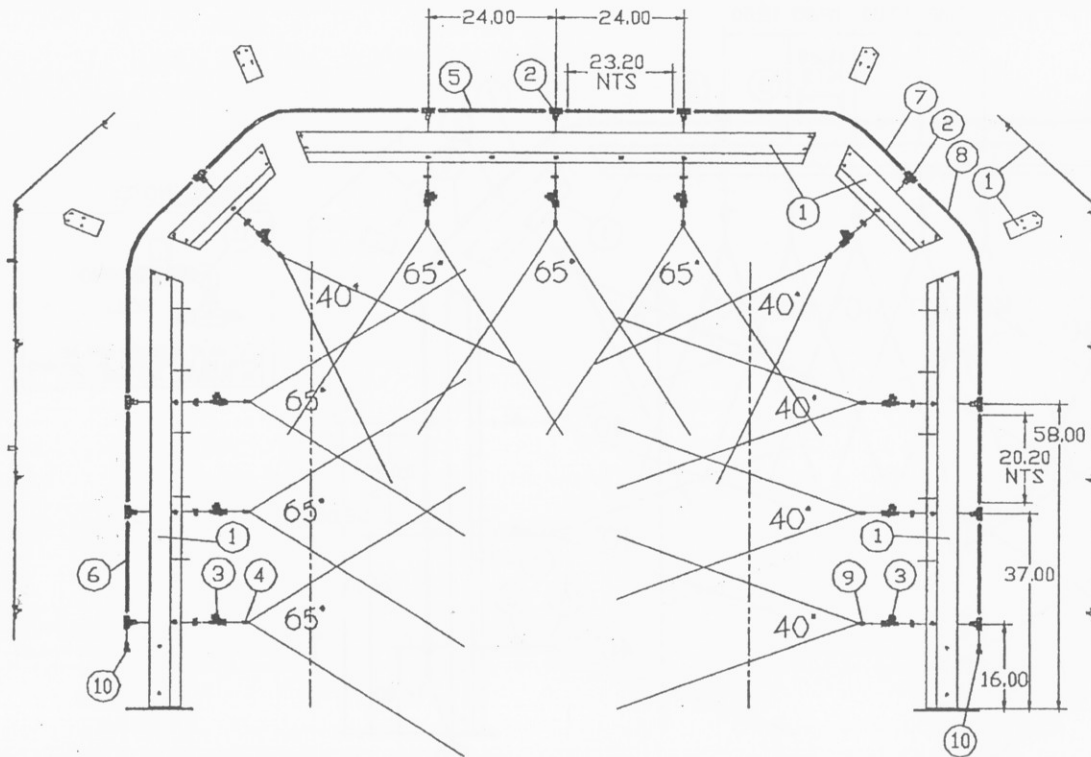
424381 HANNA SOAP FOAM OR POLISH FOAM ARCH PARTS BREAK-DOWN

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY	1
2	806815	MANIFOLD FOAMER ASSEMBLY	2
3	806812	FOAM GENERATOR ASSEMBLY	4
4	806291	CHEMICAL VALVE ASSEMBLY	1
5	806292	AIR VALVE ASSEMBLY	1
6	317305	UNION PVC 1/2" X 1/2"	4
7	313437	UNION PVC 3/8" X 3/8"	4
8	800337	ARCH VALVE BRACKET	2
9	360085	PLUGS (NOT SHOWN)	41
10	365619	JET V NYLON 1/4" 40-15	10
11	024604	TU NYLON 1/2" PF (NOT SHOWN)	100FT
12	024612	TU NYLON 3/8" PF (NOT SHOWN)	100FT
13	309831	TY WRAPS 3/16 X 7 (NOT SHOWN)	100
14	361574	SCR MACH PH SS 8-32 X 3/8" (NOT SHOWN)	4
15	362014	CPSCR HX HD SS 1/4" NC X 1/2" (NOT SHOWN)	4
16	363293	WSHR LOCK 1/4" (NOT SHOWN)	4
17	806853	TU NYLON 1/2" X 70" LONG	2
18	806854	TU NYLON 3/8" X 65" LONG	2
19	806855	TU NYLON 1/2" X 48" LONG	2
20	806856	TU NYLON 3/8" X 48" LONG	2
21	806857	TU NYLON 3/8" X 58" LONG	2
22	806858	TU NYLON 3/8" X 61" LONG	2
23	806859	TU NYLON 1/2" X 121" LONG	1
24	806860	TU NYLON 1/2" X 124" LONG	1
25	806861	TU NYLON 3/8" X 113" LONG	1
26	806862	TU NYLON 3/8" X 116" LONG	1
27	806863	TU NYLON 1/2" X 61" LONG	1
28	806864	TU NYLON 1/2" X 58" LONG	1

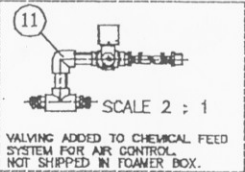
Hanna Car Wash Systems Stainless Steel Image Arche



424390 SINGLE WAX ARCH PARTS BREAK-DOWN



SPECIAL NOTE:



NOTE:
1. 11 GPM @ 40 PSI

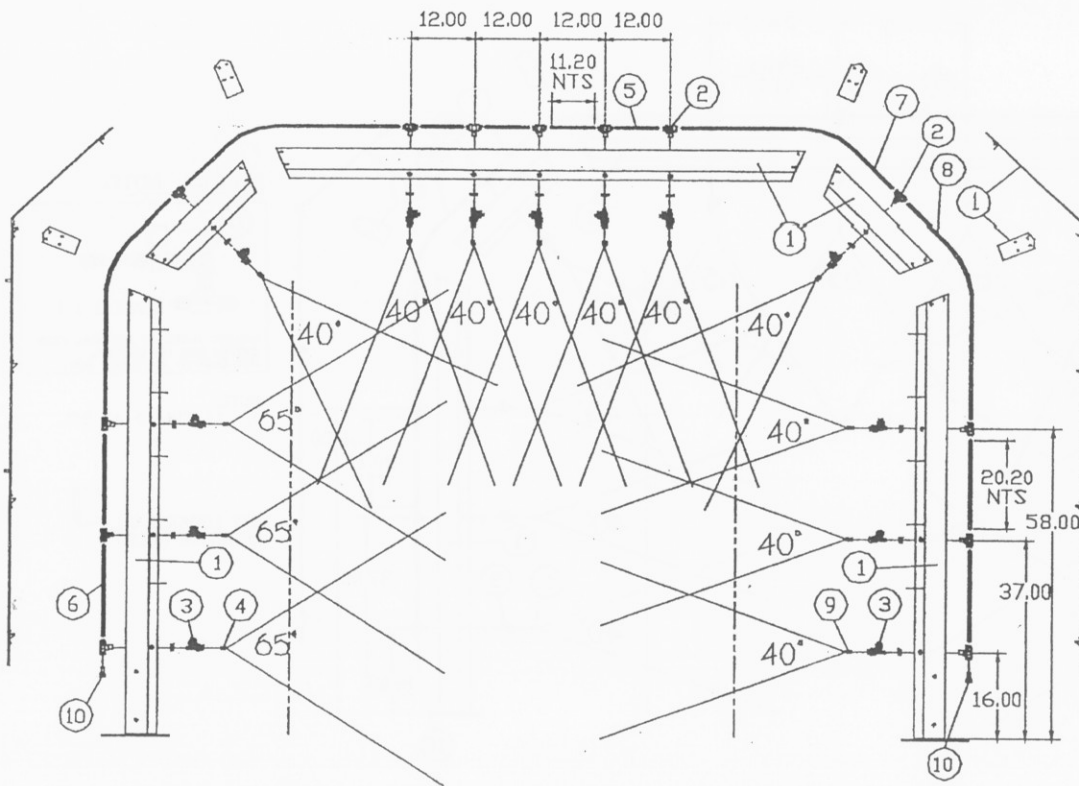
JETS LOCATED ON
ENTRANCE HOLES

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY	1
2	365422	TEE BULKHEAD PUSH LOCK	11
3	806631	CHECK VALVE ASSEMBLY	11
4	363261	JET V NYLON 1/4" 65-10	6
5	806805	TUBE 23.2" LONG	2
6	806637	TUBE 20.2" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365621	JET V NYLON 1/4" 40-10	5
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	360085	PLUGS (NOT SHOWN)	44
13	621029	EL BR 1/4" 45 STR (NOT SHOWN)	11

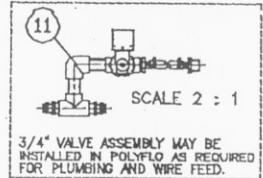
Hanna Car Wash Systems Stainless Steel Image Arche



424383 HANNA FINAL RINSE ARCH PARTS BREAK-DOWN



SPECIAL NOTE:

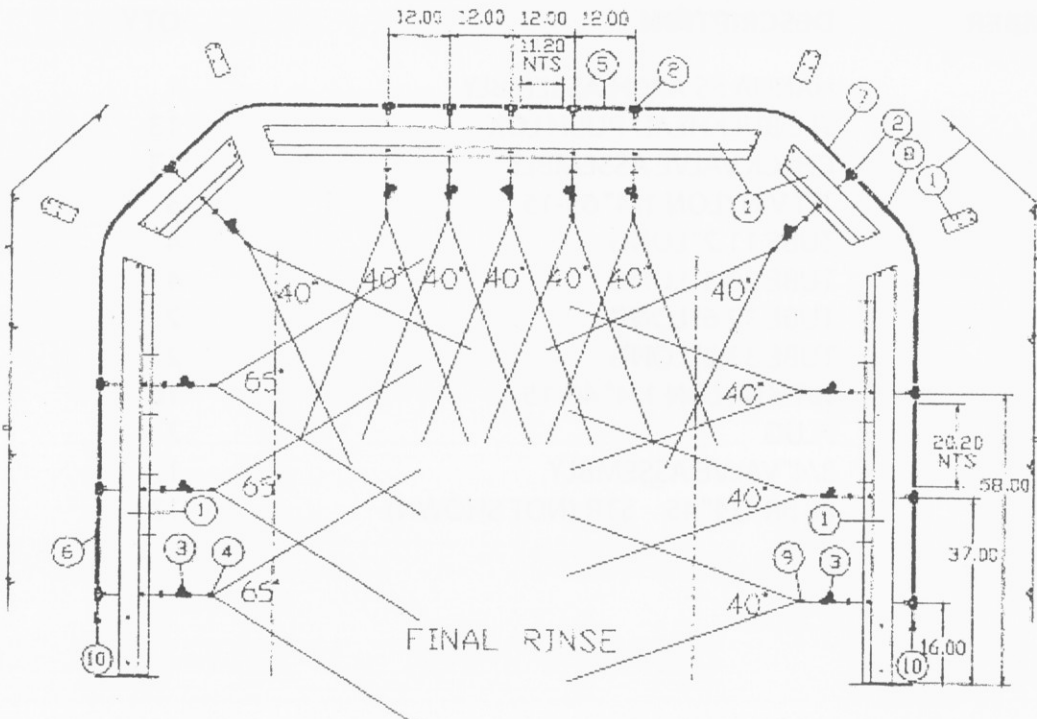


ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY	1
2	365422	TEE BULKHEAD PUSH LOCK	13
3	806631	CHECK VALVE ASSEMBLY	13
4	363262	JET V NYLON 1/4" 65-15	3
5	806636	TUBE 11.2" LONG	4
6	806637	TUBE 20.2" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365619	JET V NYLON 1/4" 40-15	10
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	360085	PLUGS PLASTIC (NOT SHOWN)	40

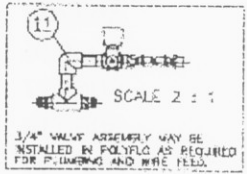
Hanna Car Wash Systems Stainless Steel Image Arche



424384 HANNA FINAL RINSE & DRYING AID ARCH



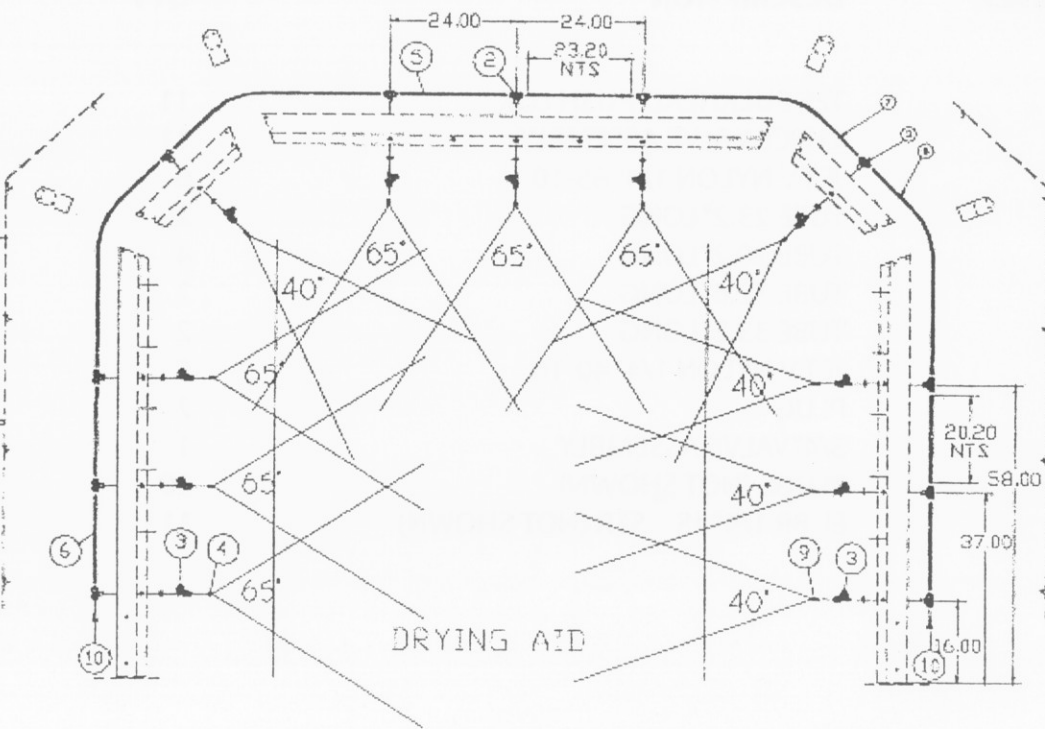
SPECIAL NOTE:



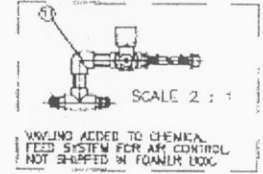
3/4" VALVE ASSEMBLY MAY BE INSTALLED IN POLYPLC AS REQUIRED FOR PLUMBING AND WIRE FEED.

NOTE:
1. 19.5 GPM @ 40 PSI

JETS LOCATED ON ENTRANCE HOLES



SPECIAL NOTE:



WALING ADDED TO CHEMICAL FEED SYSTEM FOR ARCH CONTROL. NOT SHOWN IN FOUNDRY LOG.

NOTE:
1. 11 GPM @ 40 PSI
2. DEMA INJECTOR NOT INCLUDED
3. ARCH IS SHOWN AS REFERENCE

JETS LOCATED ON EXIT HOLES

Hanna Car Wash Systems Stainless Steel Image Arche



FINAL RINSE PARTS BREAK-DOWN

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY	1
2	365422	TEE BULKHEAD PUSH LOK	13
3	806631	CHECK VALVE ASSEMBLY	13
4	363262	JET V NYLON 1/4" 65-15	3
5	806636	TUBE 11.2" LONG	4
6	806637	TUBE 20.3" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365619	JET V NYLON 1/4" 40-15	10
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	621029	EL BR 1/4" 45 STR (NOT SHOWN)	13

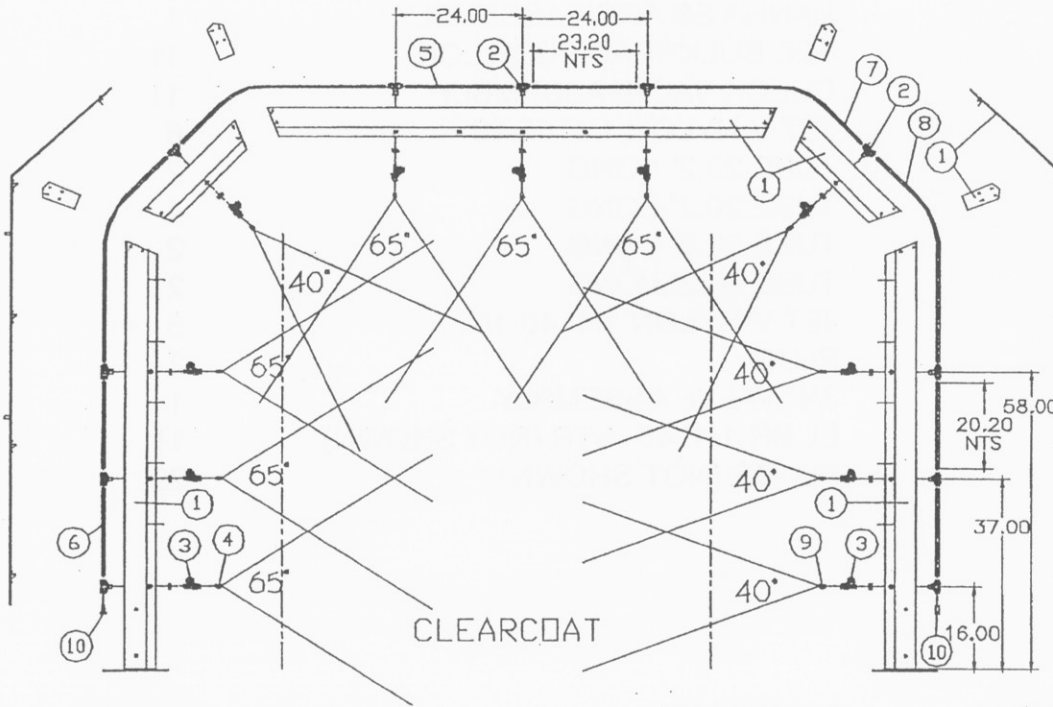
DRYING AID PARTS BREAK-DOWN

ITEM #	PART NUMBER	DESCRIPTION	QTY
1			
2	365422	TEE BULKHEAD PUSH LOK	11
3	806631	CHECK VALVE ASSEMBLY	11
4	363261	JET V NYLON 1/4" 65-10	6
5	806805	TUBE 23.2" LONG	2
6	806637	TUBE 20.2" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365621	JET V NYLON 1/4" 40-10	5
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	360085	PLUGS (NOT SHOWN)	29
13	621029	EL BR 1/4" 45 STR (NOT SHOWN)	11

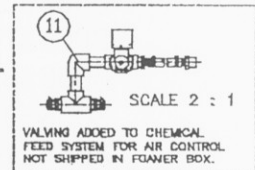
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424385 CLEARCOAT AND DRYING AID ARCH

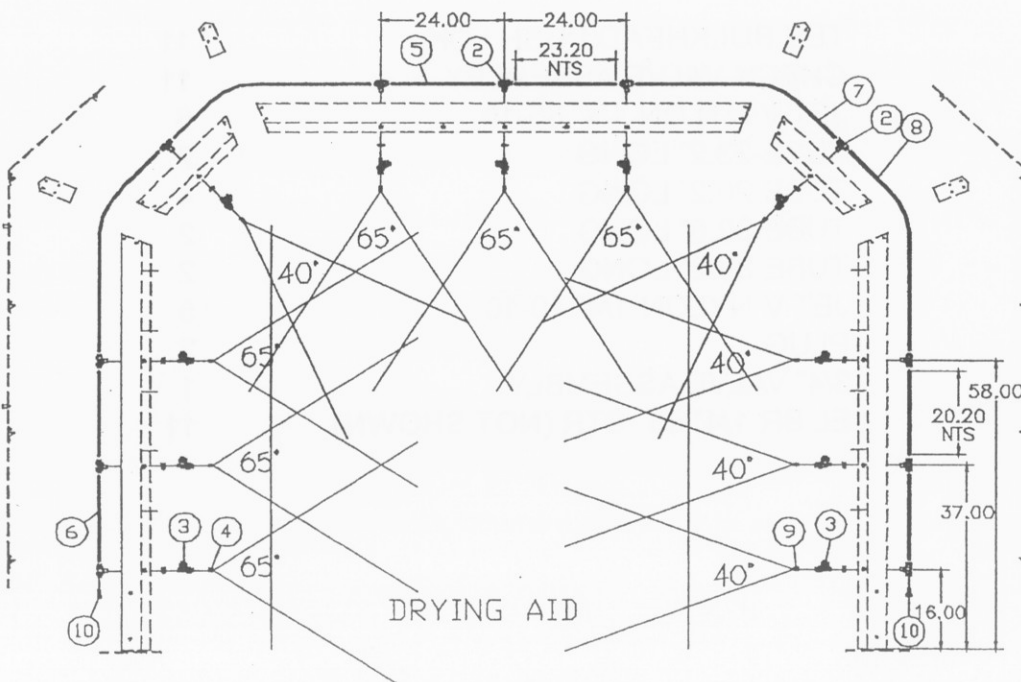


SPECIAL NOTE:

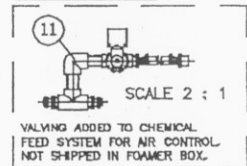


NOTE:

- 1. 11 GPM @ 40 PSI



SPECIAL NOTE:



NOTE:

- 1. 11 GPM @ 40 PSI
- 2. ARCH SHOWN FOR REFERENCE.
- 3. DEMA INJECTOR NOT INCLUDED



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CLEARCOAT PARTS BREAK-DOWN

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY	1
2	365422	TEE BULKHEAD PUSH LOK	11
3	806631	CHECK VALVE ASSEMBLY	11
4	363261	JET V NYLON 1/4" 65-10	6
5	806805	TUBE 23.2" LONG	2
6	806637	TUBE 20.2" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365621	JET V NYLON 1/4" 40-10	5
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	621029	EL BR 1/4" 45 STR (NOT SHOWN)	11
13	360085	PLUGS (NOT SHOWN)	29

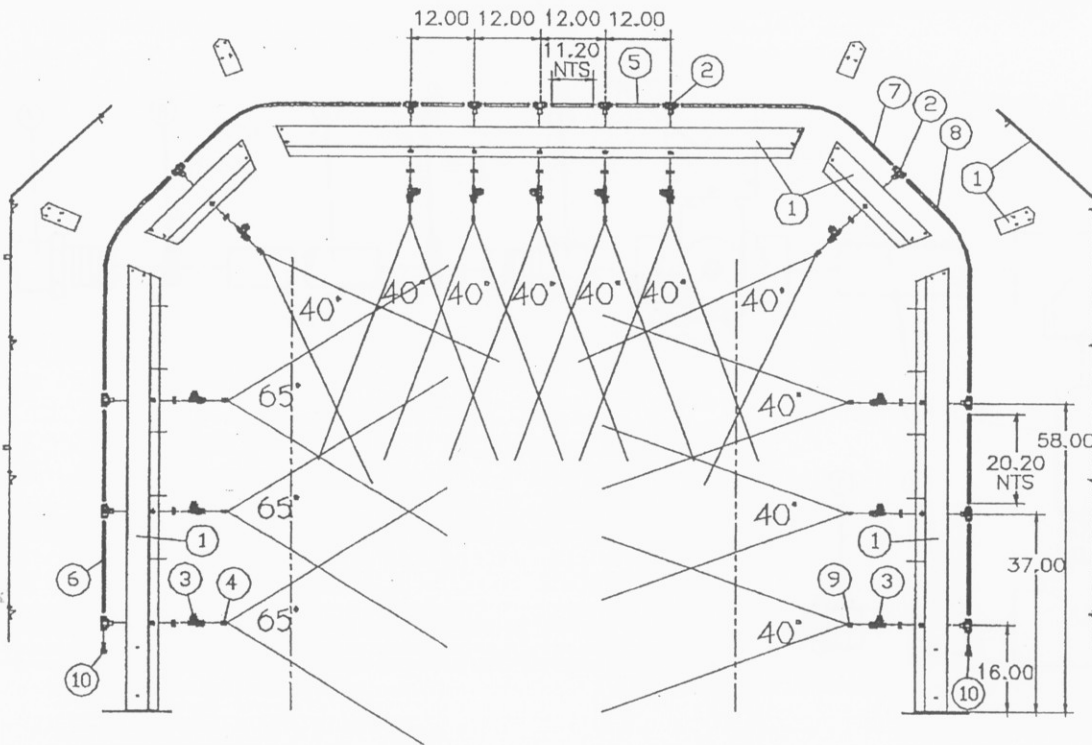
DRYING AID PARTS BREAK-DOWN

ITEM #	PART NUMBER	DESCRIPTION	QTY
1			
2	365422	TEE BULKHEAD PUSH LOK	11
3	806631	CHECK VALVE ASSEMBLY	11
4	363261	JET V NYLON 1/4" 65-10	6
5	806805	TUBE 23.2" LONG	2
6	806637	TUBE 20.2" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365621	JET V NYLON 1/4" 40-10	5
10	365469	PLUG	2
11	806633	3/4" VALVE ASSEMBLY	1
12	621029	EL BR 1/4" 45 STR (NOT SHOWN)	11

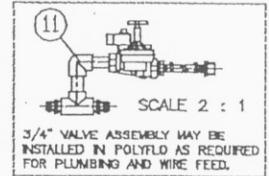
Hanna Car Wash Systems Stainless Steel Image Arche



424401 HANNA SPOT FREE ARCH PARTS BREAK-DOWN



SPECIAL NOTE:



3/4" VALVE ASSEMBLY MAY BE INSTALLED IN POLYFLO AS REQUIRED FOR PLUMBING AND WIRE FEED.

NOTE:

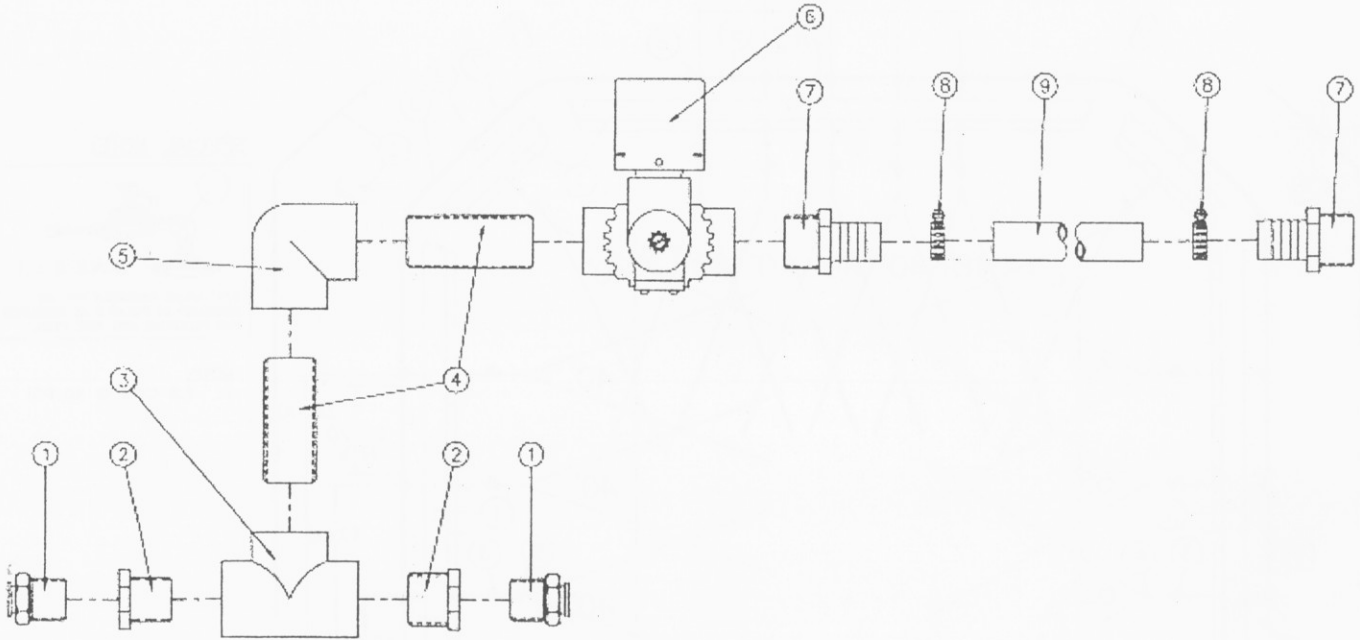
1. 7.8 GPM @ 40 PSI

ITEM #	PART NUMBER	DESCRIPTION	QTY
1	806216	HANNA SS ARCH ASSEMBLY	1
2	365422	TEE BULKHEAD PUSH LOK	13
3	806631	CHECK VALVE ASSEMBLY	13
4	363258	JET V NYLON 1/4" 65-06	3
5	806636	TUBE 11.2" LONG	4
6	806637	TUBE 20.3" LONG	4
7	806638	TUBE 32.6" LONG	2
8	806639	TUBE 33.2" LONG	2
9	365620	JET V NYLON 1/4" 40-06	10
10	365469	PLUG	2
11	806845	3/4" VALVE ASSEMBLY	1
12	360085	PLUGS PLASTIC (NOT SHOWN)	40

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3/4" VALVE ASSEMBLY For Arches PARTS BREAK-DOWN

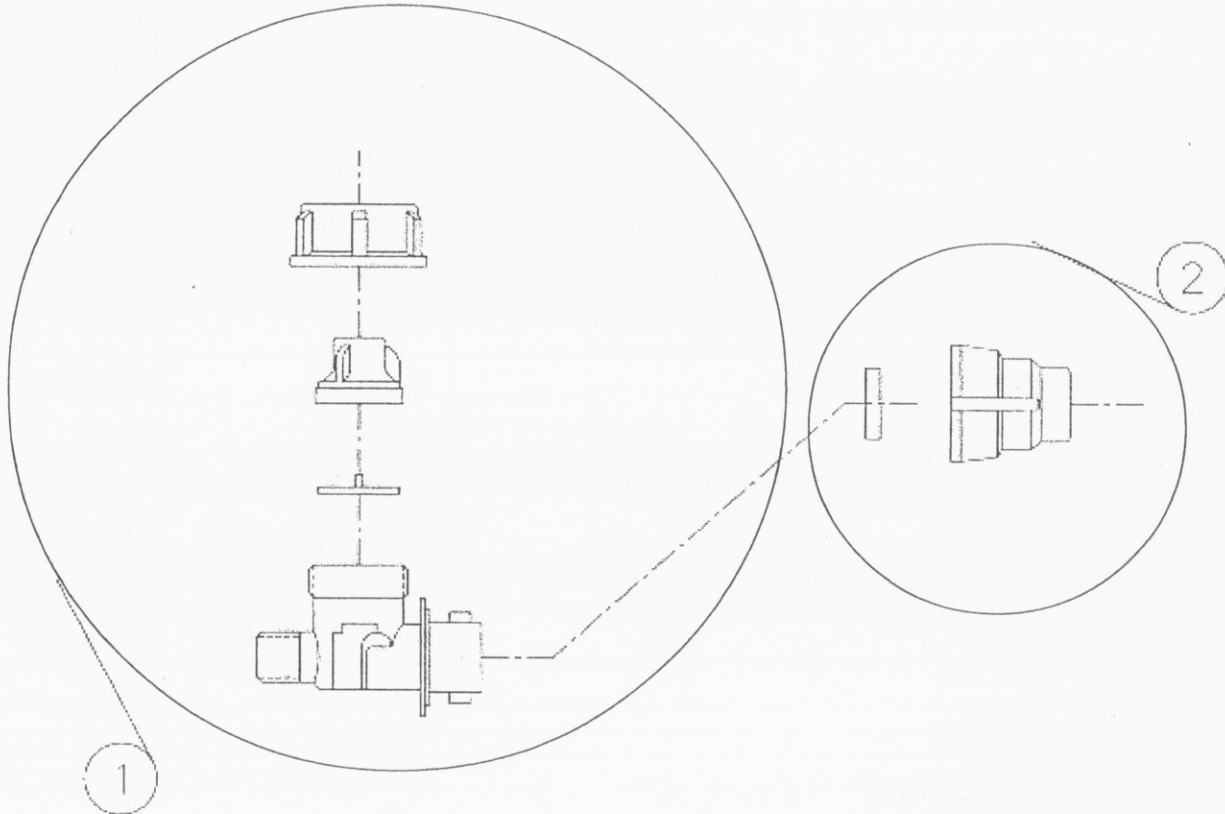


ITEM #	PART NUMBER	DESCRIPTION	QTY
1	118588	ALKON CONN 1/2" PF x 1/2" NPT	2
2	362652	BSCH PVC 3/4" PF M - 1/2" F	2
3	621169	TEE PVC 3/4" T x T x T SCH 80	4
4	365569	NPL PVC 3/4" x 2-1/2"	2
5	361214	EL 90" PVC 3/4"	1
6	324764	DEMA SOLENOID 3/4" x 416 - P 24V	1
7	330985	BARB FTG PVC 3/4" X 3/4"	2
8	622524	CLAMP HOSE 3/4"	2
9	806635	6' HOSE	1

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CHECK VALVE ASSEMBLY 1/4" NPT PARTS BREAK-DOWN



ITEM #	PART NUMBER	DESCRIPTION	QTY
1	365587	NOZZLE BODY ASSM 1/4" NPT	1
2	363377	CAP WITH VITON GASKET	1



STAINLESS & 2 x 2 ARCH – JET SIZING INFORMATION

ARCH PN	DESCRIPTION	NUMBER & SIZE OF JETS	APPLICATION
424379	HSI Stainless Soap Foamer with Pre-Rinse Arch	3 - 6515 10 - 4015 10 - 4015	Pre-Rinse Foam
424380	HSI Stainless Pre-Rinse Arch	3 - 6515 10 - 4015	Pre-Rinse
424381	HSI Stainless Soap Foamer Arch or Polish Foam Arch	10 - 4015	Foam
424382	HSI Stainless Clearcoat Arch or Sealer Wax Arch	6 - 6510 5 - 4010	Wax
424383	HSI Stainless Final Rinse Arch	3 - 6515 10 - 4015	Final Rinse
424384	HSI Stainless Final Rinse and Drying Aid Arch	3 - 6515 10 - 4515 6 - 6510 5 - 4010	Final Rinse Drying Aid
424385	HSI Stainless Clearcoat and Drying Aid Arch	6 - 6510 5 - 4010 6 - 6510 5 - 4010	Clearcoat Drying Aid

PLASTIC NOZZLE GPM RATING

	Size Designation	Rated GPM at				
		20 PSI	40 PSI	60 PSI	80 PSI	100 PSI
Red	-03	0.21	0.30	0.37	0.42	0.47
Lt Blue	-04	0.28	0.40	0.49	0.57	0.63
Yellow	-05	0.35	0.50	0.61	0.71	0.79
Lime Green	-06	0.42	0.60	0.73	0.85	0.95
Terracotta	-07	0.49	0.70	0.86	0.99	1.11
Moss Green	-08	0.57	0.80	0.98	1.13	1.26
Golden Yellow	-09	0.64	0.90	1.10	1.27	1.42
Royal Blue	-10	0.71	1.00	1.22	1.41	1.58
Emeral Green	-15	1.06	1.50	1.84	2.12	2.37
Olive Green	-20	1.41	2.00	2.45	2.83	3.16
Red	-30	2.12	3.00	3.67	4.24	4.74
Cambridge Blue	-40	2.83	4.00	4.90	5.66	6.32
Yellow	-50	3.54	5.00	6.12	7.07	7.91



PREVENTATIVE MAINTENANCE

Generally, preventative maintenance consists of routine inspection and cleaning of the arch and components. At least 50% of all system failures are a result of not properly maintaining the applicator.

Stainless Steel Formed Arches

1. Inspect the jets to insure that any accumulated chemical is removed and that the jet is not plugged. Plugged jets are commonly a result of improperly mixed chemical solutions or insufficient filtering of the incoming water supply.
2. Remove the jet and blockage if necessary.
3. Remove the cover from the arch leg.
4. Inspect the internal plumbing of the arch for leaks or other signs of deterioration.
5. Inspect the wiring to the valving (if installed on the arch) for signs of deterioration, wear or chafing. Repair as necessary.
6. Replace the cover on the arch.

TROUBLE SHOOTING

Jets Leaking:	Check the Check Valve For Sticking Check Valve for Sticking Open
Arch Will Not Shut Off:	Check Dema Valve or Control Valve for Sticking Check water Valve for Sticking Check Pump for Leaking
Arch Will Not Start:	Check Solenoid Valve for Operation Check Check Pump for Operation Check Computer Function or Other Application that Starts Arch (logo Loop, Electric Eye ETC.)
Jets Not Working:	Check Jets for Blockage Check Hose Lines for Blockage Check "Check Valves"



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