

Backroom Equipment

Manual



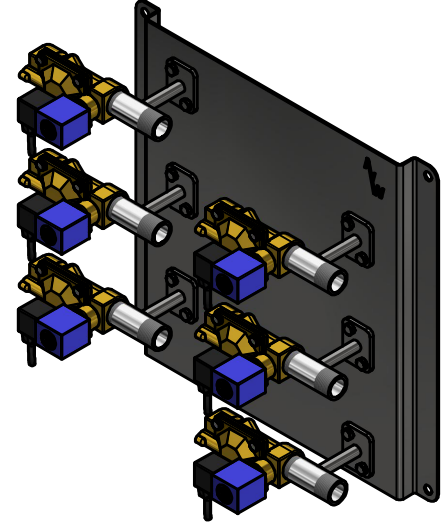
Owner's Manual

Note: Reference chain conveyor manual for CN1P and top brush manual for TR1-SKP-2011

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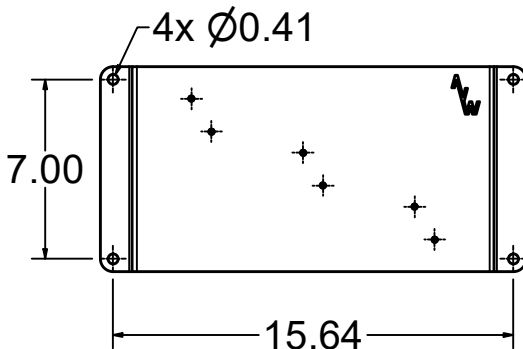
Application Briefing

AVW's Water Control Panel optimize water usage by regulating flow and pressure to ensure efficiency and sustainability. The panels integrate with pumps, valves, and chemical dispensing systems for precise control, maintaining consistent wash quality.

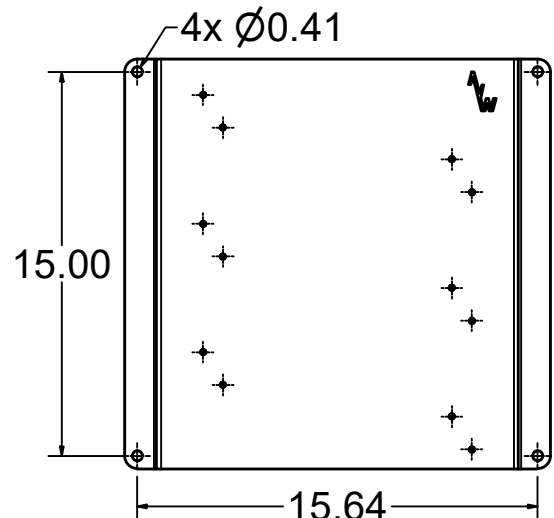


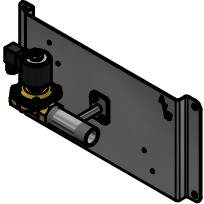
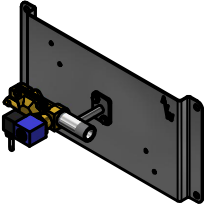
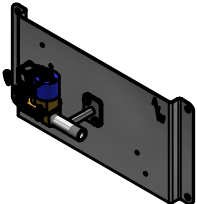
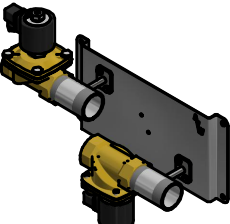
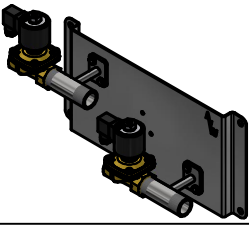
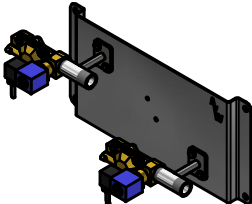
Mounting Information

P-2SL1A

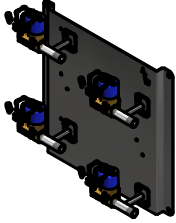
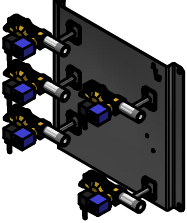
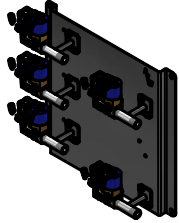
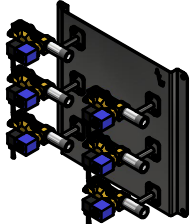
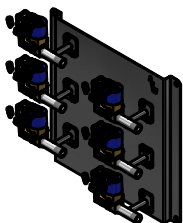


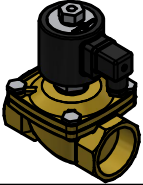
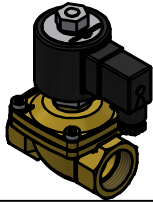
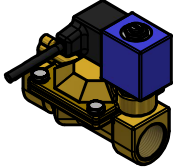

P-6SL3-4A

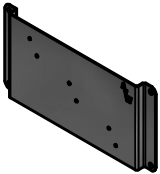
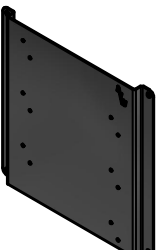


Water Control Panel Configurations			
Model	Part Number	Description	ID
	P-1SL1	Water Control Panel, One Solenoid 1in	A
	P-1SL3-4	Water Control Panel, One Solenoid $\frac{3}{4}$ in	B
	P-1SL1-2	Water Control Panel, One Solenoid $\frac{1}{2}$ in	C
	P-2SL2	Water Control Panel, Two Solenoid 2in	D
	P-2SL1	Water Control Panel, Two Solenoid 1in	E
	P-2SL3-4	Water Control Pane, Two Solenoid $\frac{3}{4}$ in	F

Water Control Panel Configurations			
Model	Part Number	Description	ID
	P-2SL1-2	Water Control Panel, Two Solenoid ½ in	G
	P-3SL2	Water Control Panel, Three Solenoid 2in	H
	P-3SL1	Water Control Panel, Three Solenoid 1in	I
	P-3SL3-4	Water Control Panel, Three Solenoid ¾ in	J
	P-3SL1-2	Water Control Panel, Three Solenoid ½ in	K
	P-4SL3-4	Water Control Panel, Four Solenoid ¾ in	L

Water Control Panel Configurations			
Model	Part Number	Description	ID
	P-4SL1-2	Water Control Panel, Four Solenoid ½ in	M
	P-5SL3-4	Water Control Panel, Five Solenoid ¾ in	N
	P-5SL1-2	Water Control Panel, Five Solenoid ½ in	O
	P-6SL3-4	Water Control Panel, Six Solenoid ½ in	P
	P-6SL1-2	Water Control Panel, Six Solenoid ¾ in	Q

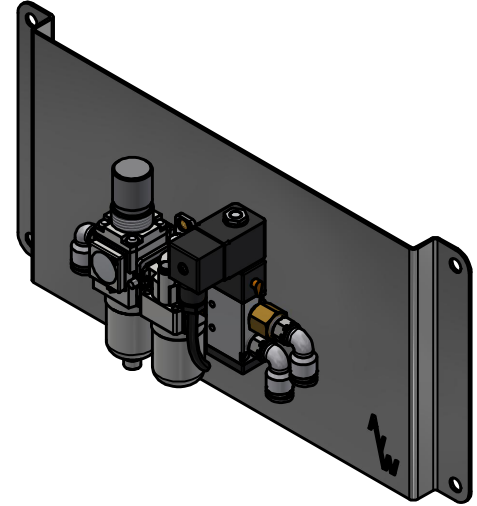
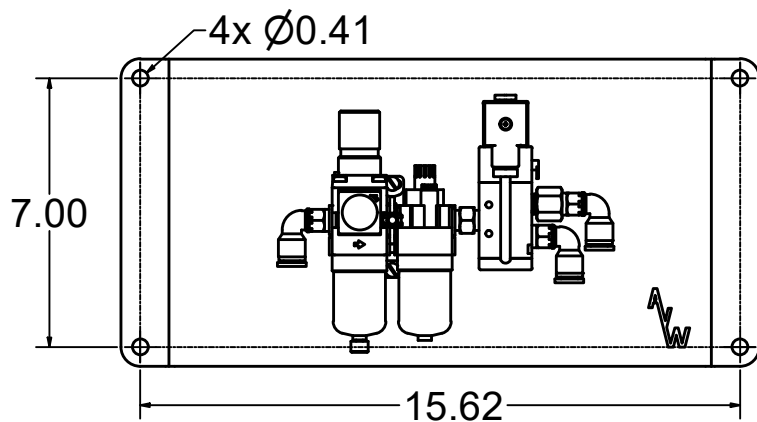
Solenoid Configurations			
Model	Part Number	Description	Configurations
	SL2-G-120V	Valve-Solenoid Assembly, 2"	D, H
	SL1-G-120V	Valve-Solenoid Assembly, 1"	A, E, I
	SL3-4-G-120V	Valve-Solenoid Assembly, 3_4"	B, F, J, L, N, P
	SL1-2-GC-120V	Valve-Solenoid Assembly, 1_2"	C, G, K, M, O, Q

Back Panel Configurations			
Model	Part Number	Description	Configurations
	P-2SL1A	1-2 Solenoid Back Plate Weldment	A, B, C, D, E, F
	P-6SL3-4A	3-6 Solenoid Back Plate Weldment	G, H, I, J, K, L, M, N, O, P, Q

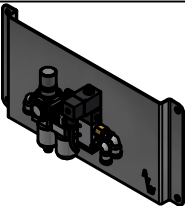
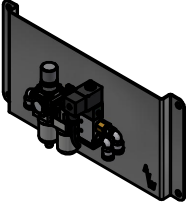
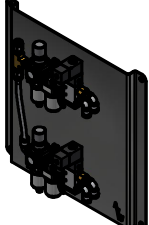
Application Briefing

AVW's Air Control Panel is used to apply pressure to an air cylinder. Equipped with a filter, regulator, and lubricator, the panel lengthens the life of the air cylinder.

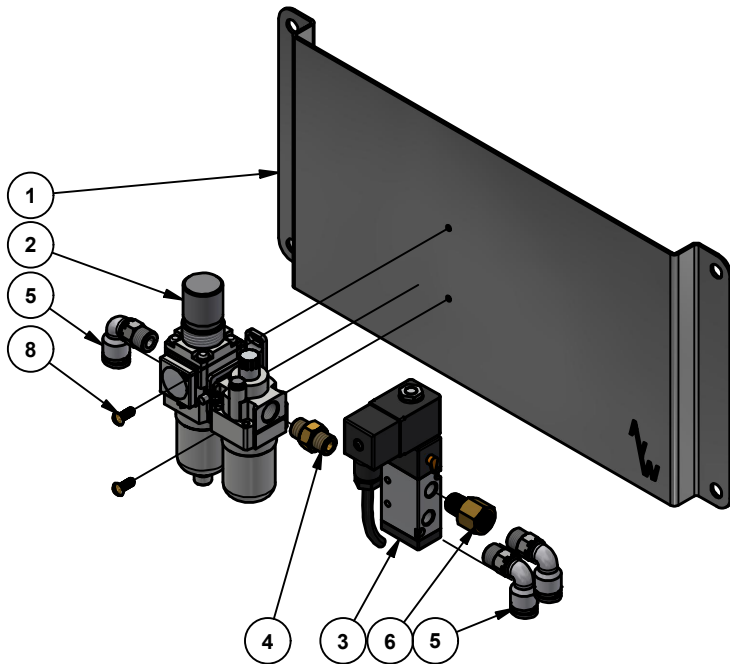
Mounting Information



Air Control Panel Configurations

Model	Part Number	Description	ID
	WA1P-24V	Air Control Panel - 24 VAC	A
	WA1P-120V	Air Control Panel - 120 VAC	B
	2WA1P	Dual Air Control Panel	C

Configuration B shown below



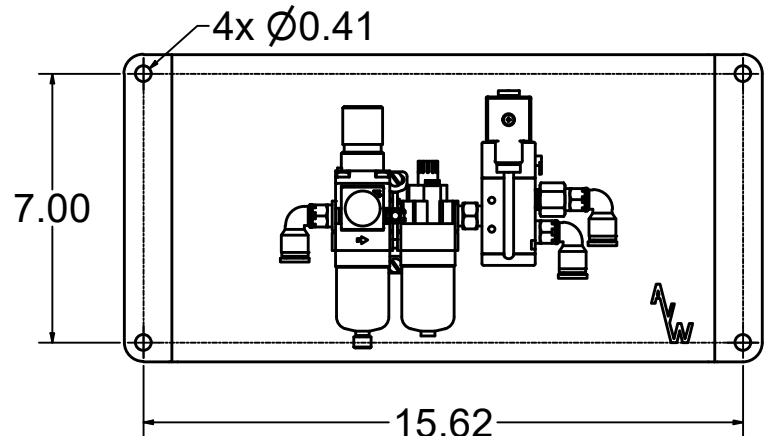
Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	WA1PA	1	Plate Air Control Panel, 304SS
2	FRL1-4-SMC	1	Filter, Regulator, Lubricator-1/4", w/Built-in Pr Gauge
3	4WDV1-4VL-F-120V	1	Valve (Directional): 4-Way Fabco 1/4" NPT Ports, 110VAC, With coil with 30mm DIN Connector
4	NPLBR025HEX	1	Brass Hex Nipple 1/4" NPT
5	APF3814-EL90	3	Push-Connect Fitting, 90° Elbow, 3/8" x 1/4" NPT
6	ADPTBR025FNPT025 MNPT	1	Adapter-Pipe Fitting 1/4"(F)X1/4"(M), Brass
7	CBL18G-3WIRES-028	1	Cable SJOOW, Black outer insulation, 18gauge, 3 wires, 28"LG
8	SRMS1032050-BR	2	Machine Screw: 10-32 x 1/2" LG, Round, Slotted, Brass
9	4WDV1-4VL-F-24VAC	1	Valve (Directional): 4-Way Fabco 1/4" NPT Ports, 24V, With coil with 30mm DIN Connector

Item #3 replaced by item #9 for configuration A

Maintenance Information

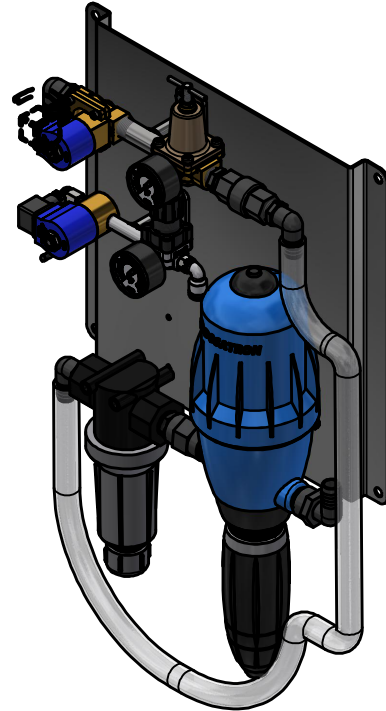
- Check filter periodically for dirt in resin bowl and cracks throughouts, and replace parts as needed.
- Maximum filter life is 2 years. If the pressure drop from the initial outlet pressure reaches 0.1MPa, replace early.
- Drain the bowl by opening drain cock before the drain level in the bowl reaches baffle.

Mounting Information

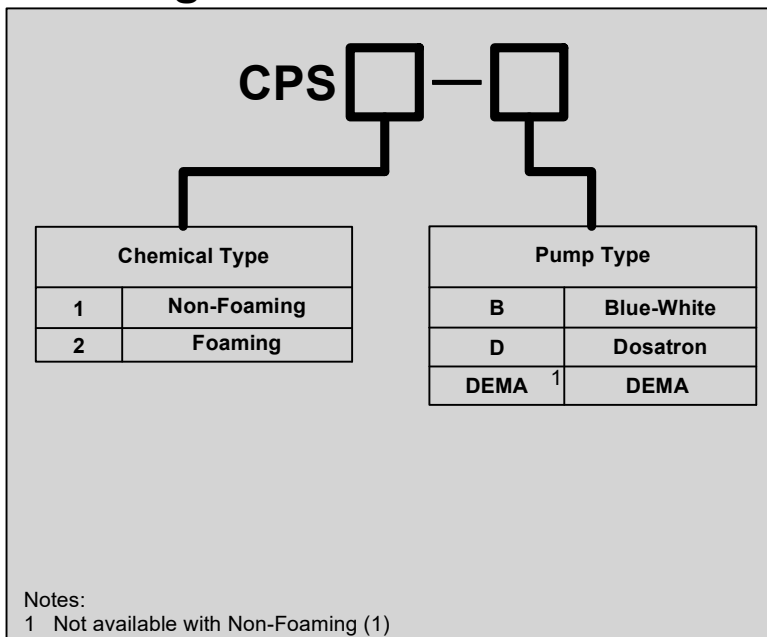


Application Briefing

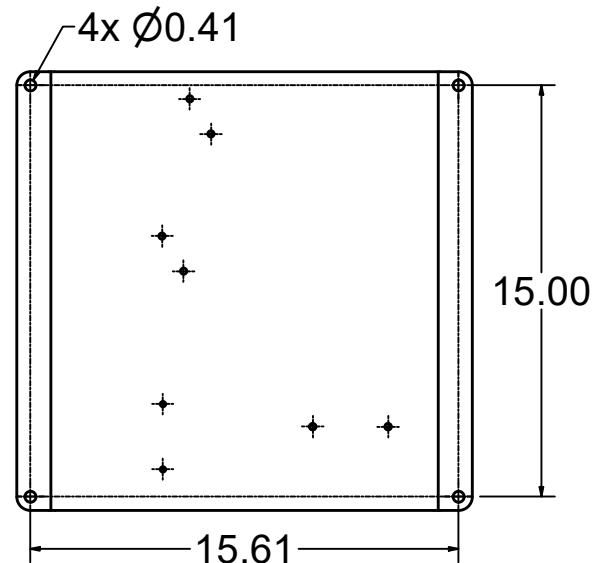
AVW's Chemical Pump Panels are used to control the dispensing of chemicals within the car wash system. The panels provide a centralized control for adjusting chemical flow rates, ensuring efficient usage.

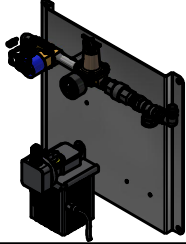



Ordering Information

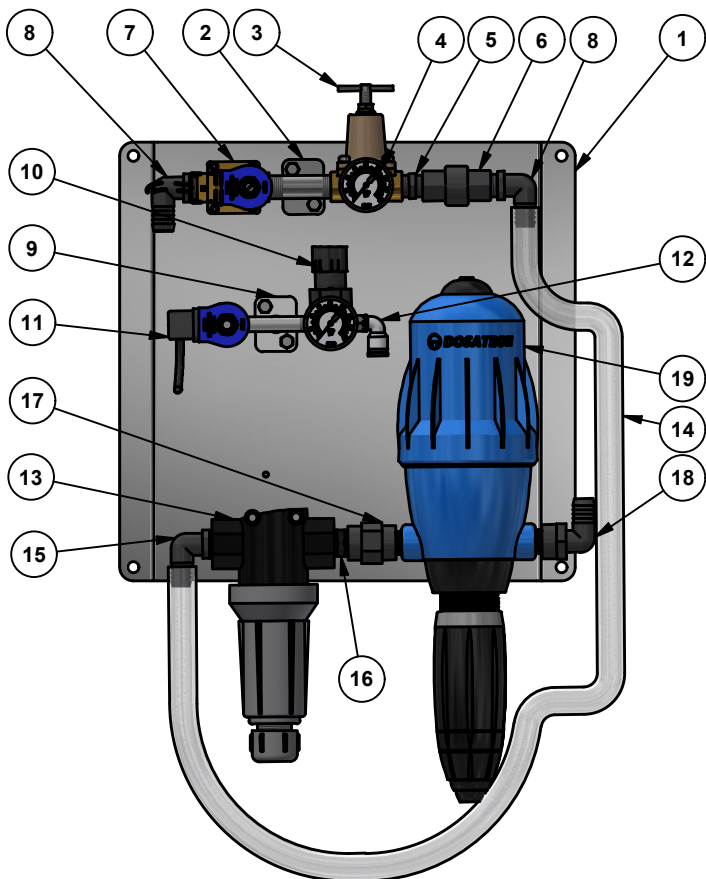


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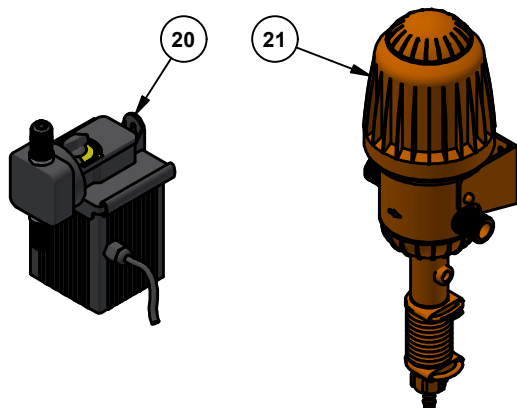
Chemical Pump Panel Configurations			
Model	Part Number	Description	ID
	CPS1-B	Chemical Pump Panel, Blue-White Pump (Non-Foaming)	A
	CPS2-B	Chemical Pump Panel, Blue-White Pump (Foaming)	B
	CPS1-D	Chemical Pump Panel, Dosatron (Non-Foaming)	C
	CPS2-D	Chemical Pump Panel, Dosatron (Foaming)	D
	CPS2-DEMA	Chemical Pump Panel, DEMA (Foaming)	E

Configuration D shown below



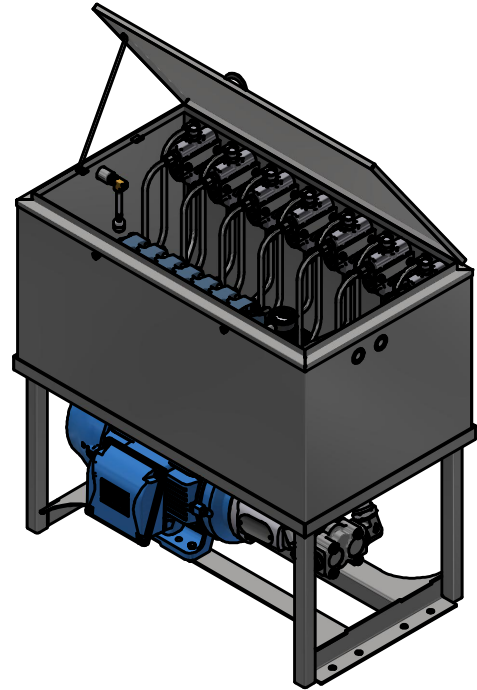
Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	CPS2A-DEMA	1	Chemical Pump Panel Weldment
2	SV1-2B	1	Stand Off Bracket Assembly
3	3WREG1	1	3-Way Water Pressure Regulator 1/4" - 1/2" NPT
4	AREG1-G14	2	Gauge 0-160 PSI, 1/4" NPT
5	NPLPVC050CL	1	PVC Hex Nipple 1/2" NPT
6	SLCV12-PPBLK	1	1/2" NPT Check Valve
7	SL1-2-GC-120V	1	Valve Assembly 1/2", 110-120V/50-60HZ, UL/CSA Coil, 8W
8	EL90BRBNPT075050	2	Elbow 90deg x .5 in NPT x .75 in Hose Barb
9	SV1-4B	1	Stand Off Bracket Assembly
10	AREG1-4-R-SMC	1	Regulator
11	SL1-4-G-120V	1	1/4" NPT Solenoid Valve Assembly, 110-120V
12	APF3814-EL90	1	Push-Connect Fitting, 90° Elbow, 3/8" x 1/4" NPT
13	CPS1-DS	1	Strainer - AA430ML
14	SBH125X750X4500	1	45nLG Spin Braid Hose .75 in Hose
15	EL90BRB075075	1	Elbow 90deg x .75 in NPT x .75 in Hose Barb
16	NPLPP075075	1	Hex Nipple (Polypro) - .75 in x .75 in NPT
17	UNNPVC075	1	Union .75 in NPT x .75 in NPT
18	EL90BRBNPTF075075	1	Elbow 90deg x .75 in FNPT x .75 in Hose Barb
19	DM14MZ2VFDII	1	Dosatron DM14MZ2: 1:500 - 1:50 Dilution
20	CPS1B-2-7OZ115V	1	Blue-White Chem Feed Noir Pump (Non-Foaming)
21	CPS1DEMA-11GPM	1	DEMA MixRite 570CW

Items #9-12 only for configurations B, D, & E
Items #14-19 replaced by item #20 for configurations A & B
Item #19 replaced by Item #21 configuration E



APPLICATION BRIEFING

AVW's Hydraulic Power Unit features long-lasting stainless steel construction and gravity-fed tanks to provide efficient operation of hydraulic tunnel equipment. The enclosed design prevents leakage and minimizes maintenance, enhancing reliability.

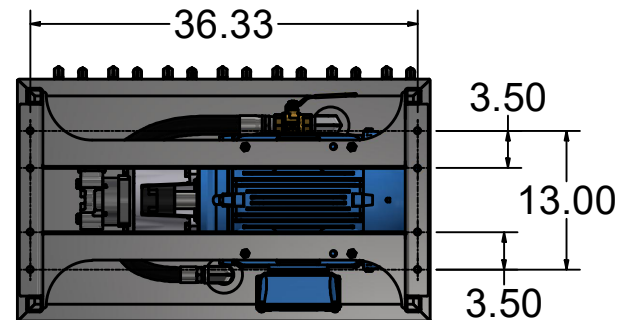


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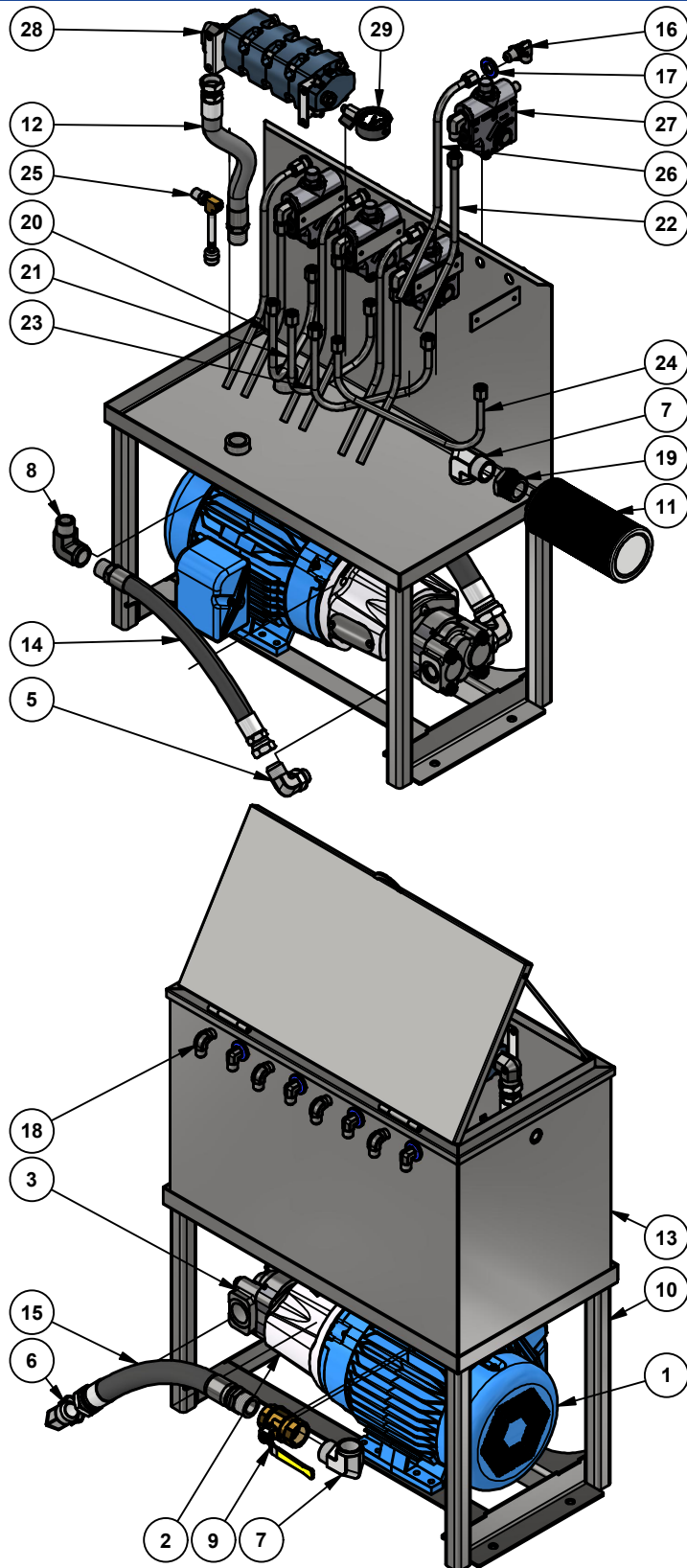
HPU ☐

Number of Ports
1
2
3
4
5
6
7

Mounting Information



Hydraulic Power Unit Manual



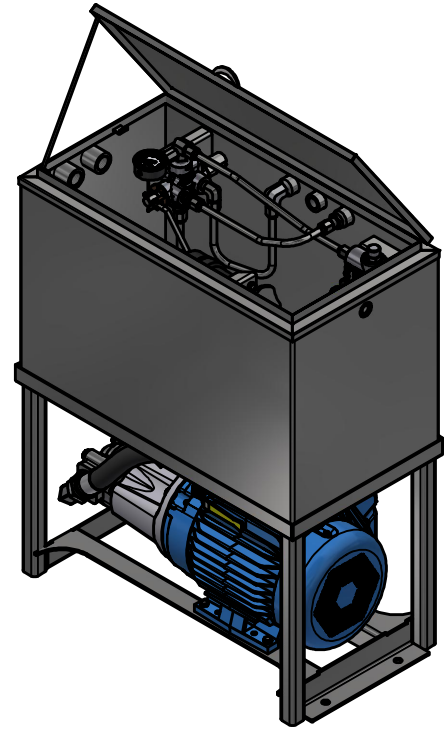
Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	EM10-1800-215TC	1	Motor (Electric-C Face, Footed) 10HP 1800 RPM
2	BH0807-F2B	1	Bell Housing HPU 2-4 and CPU3
3	GP20-P16	1	Pump GP20 for HPU4, Parker P16
4	HPU3-4-PL	1	Flexible shaft Coupling L100 1-3/8" x 7/8"
5	EL90STL100JIC10 625ORB	1	Elbow--90° - 1 1/16" M-NPT w-O Ring x 1" JIC
6	EL90STL125JIC16 25ORB	1	90 Deg Elbow - 1 5/8" UNC w/ O-Ring x 1 1/4" JIC
7	EL90SSTL125	2	90° Street Elbow, 1-1/4" MNPT x 1 1/4" FNPT
8	ELSTL100FNPT	1	90° Street Elbow, 1" MNPT x 1" FNPT
9	BVBR125	1	1 1/4" Ball Valve
10	HPU4-A	1	Stand HPU1,2,3,4
11	SS150	1	Filter (Hydraulic Suction)
12	HPU4-DHT	1	Inner Discharge Hose Assembly 1" D x 15" LG.
13	HPU4-B	1	HPU4- Tank & Lid Assembly
14	HPU4-DHU	1	Discharge Hose Assembly 1" I.D. x 21" LG
15	HPU4-NH	1	Intake Hose Assembly 1-1/4" I.D. x 20" LG
16	UNNBLKHDSTL0 50JIC	4	Bulkhead 1/2"JIC X 1/2"JIC w/Locknut
17	HPU4-C	4	UHMW spacer 1 1/2"ODx3/4"IDx 3/16" Thick
18	EL90STL050JIC03 75FNPT	4	90° Street Elbow, 1/2" JICx3/8" FNPT
19	RBSTL150X125	1	1-1/2" NPT Male x 1-1/4" NPT Female
20	HPU4-PR1	1	Hydraulic Steel Tube Assy 20" LG
21	HPU4-PR2	1	Hydraulic Steel Tube Assy 18" LG
22	HPU4-PR6	4	Hydraulic Tube Assy 15" LG
23	HPU4-PR3	1	Hydraulic Steel Tube Assy 20" LG
24	HPU4-PR4	1	Hyd Steel tube Assy 22"LG
25	HPU-D	1	Level Measurement Sub Assy
26	HPU4-PR5	4	Hydraulic Tube Assy 18" LG
27	HPU4-E	4	Flow Control Valve Assembly
28	HPU4-F	1	Flow Divider, 4-Port
29	HPU-G	1	Manometer Assembly

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APPLICATION BRIEFING

The AVW Stainless Steel Conveyor Power Unit features a gravity feed tank, a drip free leak proof design, and internal controls with a forward, neutral, and reverse directional valve.

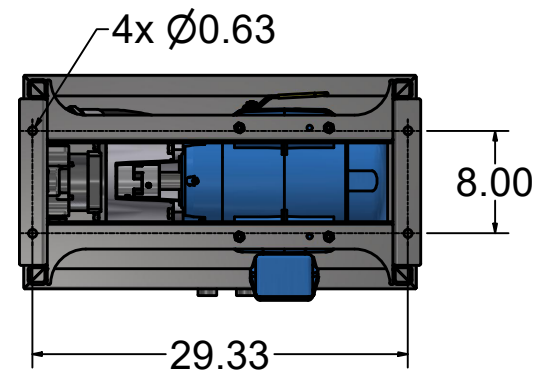


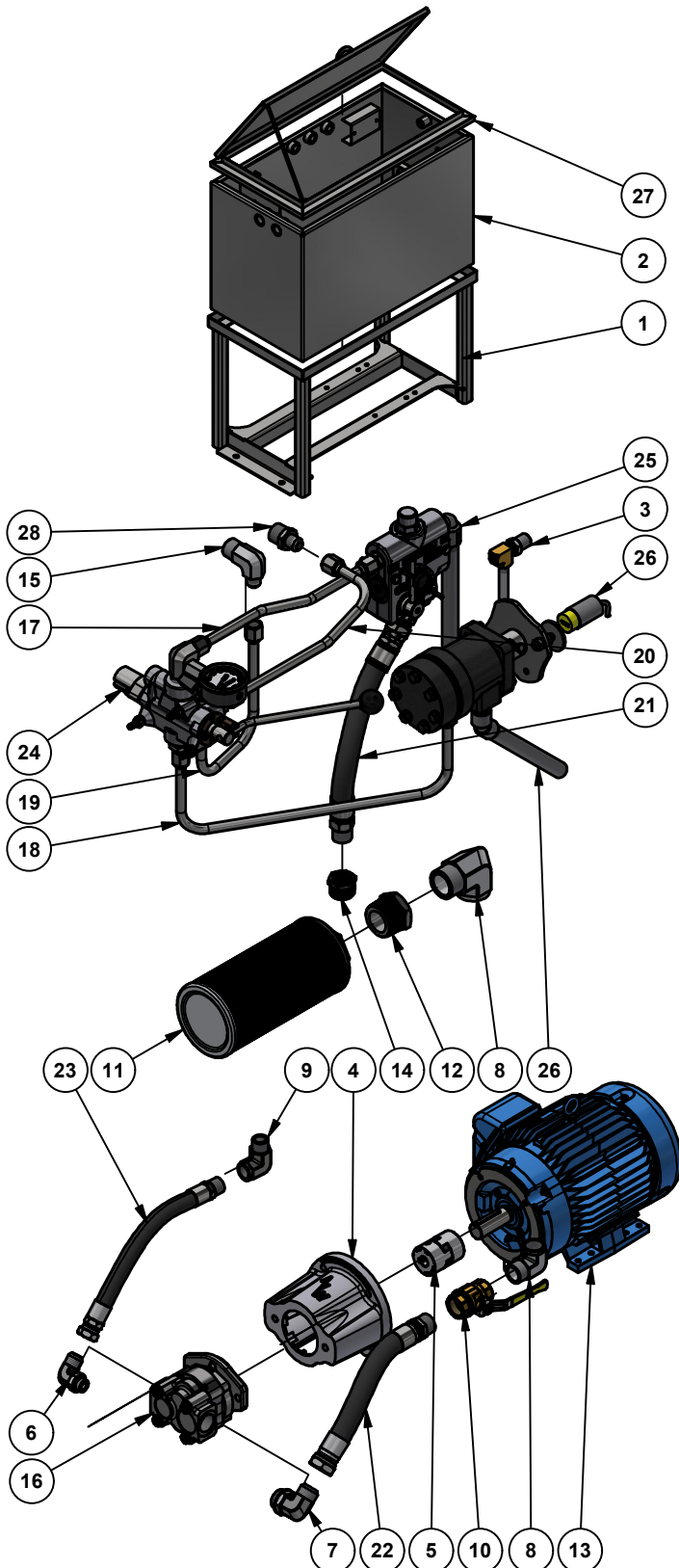
Ordering Information

CPU3 

Code	Power
	7.5HP
-10	10HP
-15	15HP

Mounting Information





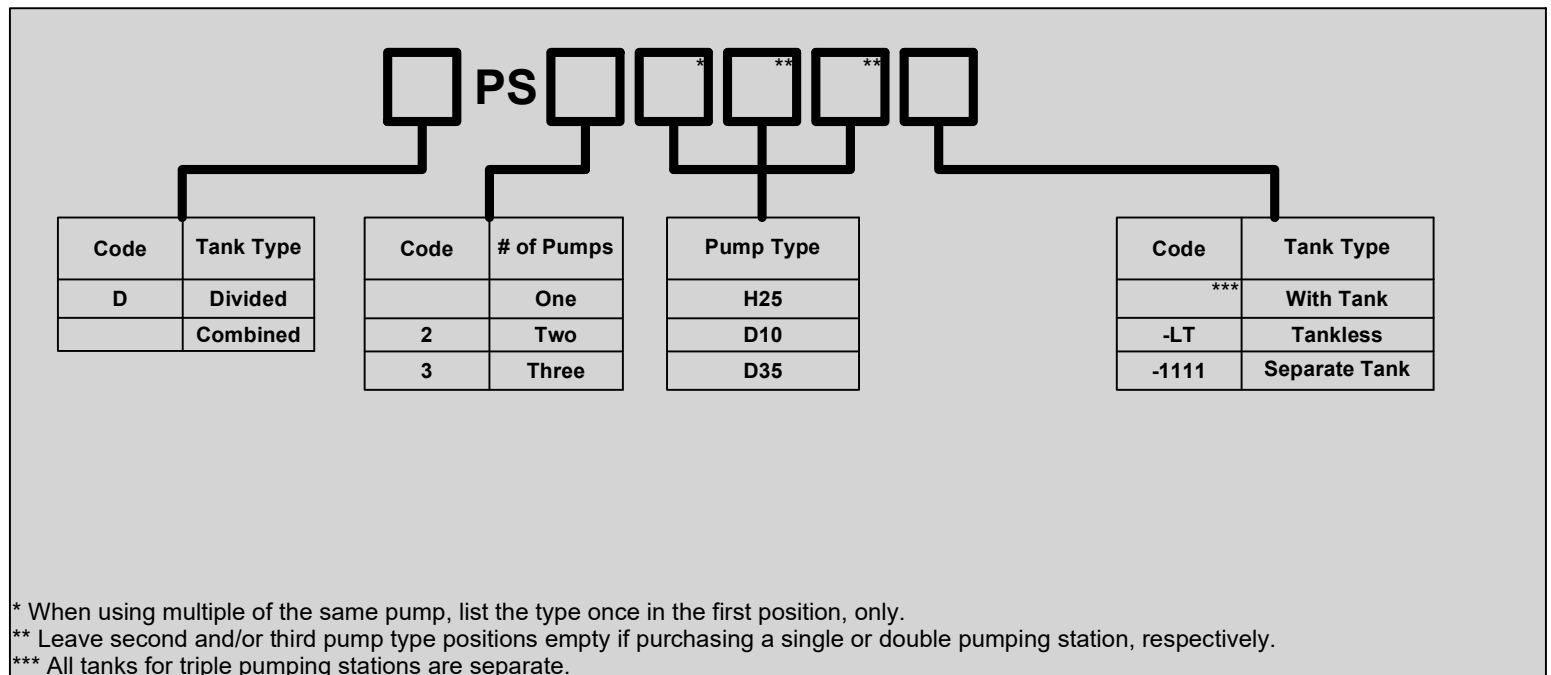
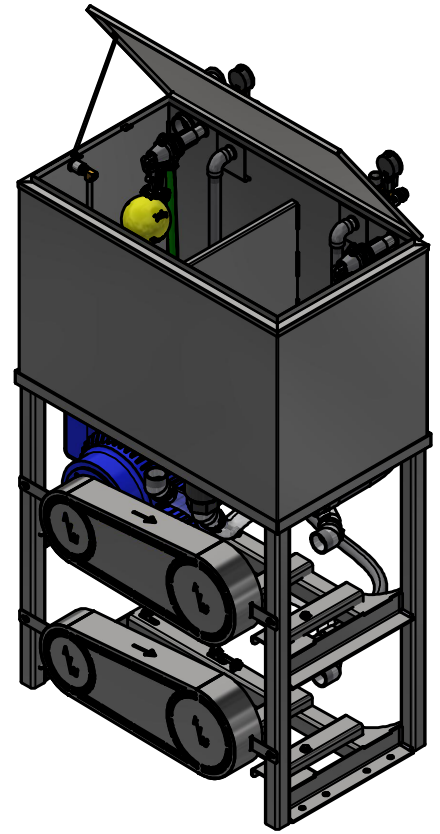
Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	HPU4-A	1	Stand HPU1,2,3,4
2	CPU3-T	1	Tank, Conveyor Power Unit (Hydraulic)
3	HPU-D	1	Level Measurement Sub Assy
4	BH0807-F2B	1	Bell Housing HPU 2-4 and CPU3
5	HPU3-4-PL	1	Flexible shaft Coupling L100 1-3/8" x 7/8"
6	EL90STL100JIC1 0625ORB	1	Elbow--90° - 1 1/16" M-NPT w-O Ring x 1" JIC
7	EL90STL125JIC1 625ORB	1	90 Deg Elbow - 1 5/8" UNC w/ O-Ring x 1 1/4" JIC
8	EL90SSTL125	2	90° Street Elbow, 1-1/4" MNPT x 1 1/4" FNPT
9	ELSTL100FNPT	1	90° Street Elbow, 1" MNPT x 1" FNPT
10	BVBR125	1	1 1/4" Ball Valve
11	SS150	1	Filter (Hydraulic Suction)
12	RBSTL150X125	1	1-1/2" NPT Male x 1-1/4" NPT Female
13	EM10-1800-215TC	1	Motor (Electric-C Face, Footed) 10HP 1800 RPM
14	RBSTL100X075	1	Reducer Bushing: 1" MNPT x 3/4" FNPT, Steel
15	EL90STL050JIC0 75MNPT	1	Elbow--90° (Male), 1/2" JIC x 3/4NPT
16	GP09-P16	1	Pump (Hydraulic Gear) GP09 for CPU3, Parker P16
17	CPU3B	1	1/2" Hydraulic Tube Assembly 25"LG (#1)
18	CPU3C	1	1/2" Hydraulic Tube Assembly 23"LG (#1)
19	CPU3D	1	1/2" Hydraulic Tube Assembly 23"LG (#2)
20	CPU3E	1	1/2" Hydraulic Tube Assembly 25"LG (#2)
21	CPU3F	1	3/4" Hose Assembly
22	CPU3G	1	1-1/4" Hose Assembly
23	CPU3H	1	1" Hose Assembly
24	CPU3I	1	Directional Control Valve Assembly for CPU
25	CPU3J	1	Flow Control Assembly for CPU
26	CPU2R	1	Remote Pulse Kit
27	PSD10-V	1	Cover/Lid for Tank for D10
28	CNCTSTL050JIC0 75MNPT	1	Connect (Male): 1/2" JIC x 3/4"NPT

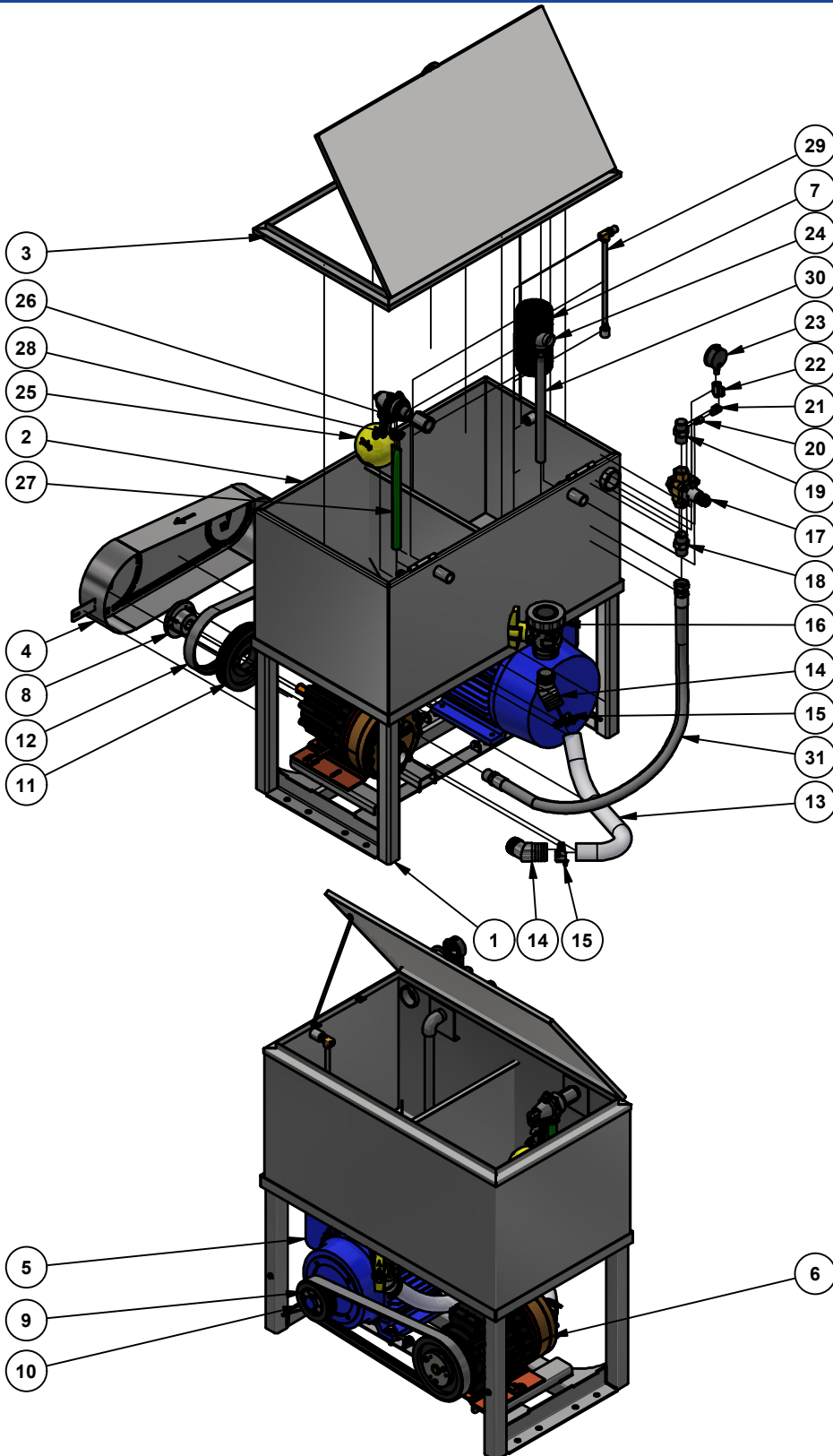
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Website: www.avwequipment.com
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APPLICATION BRIEFING

The AVW Stainless Steel Pumping Station features a gravity feed tank, with internal adjustable controls. Single, double, and triple pumping stations are available.

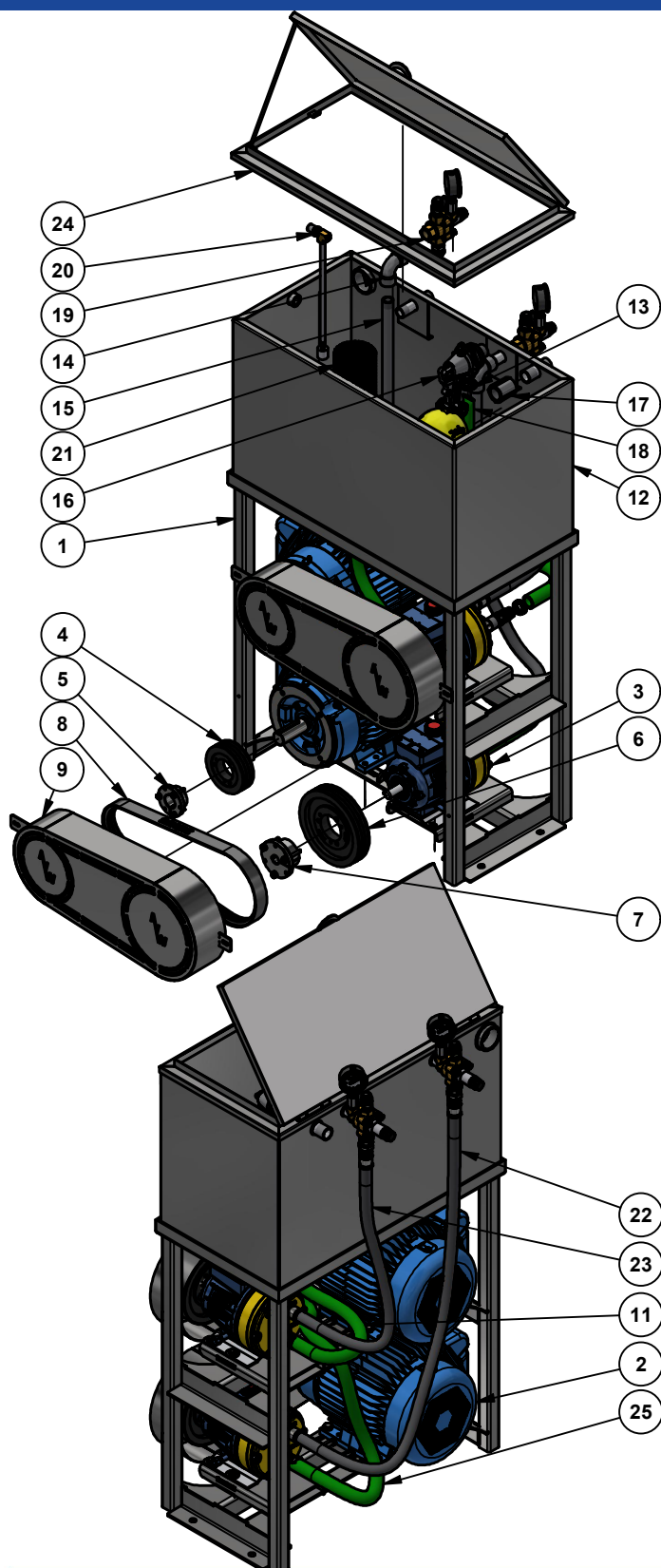




Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	PSH25-A	1	Single Pumping Station Frame
2	PSH25-T	1	Single Pumping Station Tank
3	PSH25-V	1	Pumping Station Lid Assembly
4	PSH25-PC	1	H25 Motor Belt Guard
5	EM15-1800-254TC	1	Electric Motor 15HP
6	PSH25-P20	1	Hydra Cell H25 Pump
7	PSH25-SS20	1	Strainer weldment
8	STB-SK118	1	SK 1-1/8 Pump Taper Bushing
9	STB-SDS158	1	1-5/8 Motor Taper Bushing
10	SHV-33V500SDS	1	Pulley/Sheave, 3/3V5.0-SDS
11	SHV-33V800SK	1	Pulley/Sheave, 3/3V8.0-SK
12	VBELT3VX600	1	3VX600 Belt 60" LG
13	PSH25NH	1	Hose Intake (2" ID x 39" LG)
14	BRB304200X150	2	Barb (Hose Nipple) 2"HB x 1-1/2" MNPT
15	SDBC-1.5	2	1 1/2" Tiger Clamp
16	BV200X200	1	Plastic Ball Valve 2" NPT x 2" NPT
17	PSH25-RV20	1	Pressure Regulation valve C23
18	CNCTSTL100JIC100MNPT	1	1" JIC Adapter Straight
19	CNCTSTL100JIC100MNPT-TAP	1	1" JIC Adapter Straight (with hole)
20	ADPTBR025FNPT025MNPT	1	Adapter Pipe Fitting - 1/4" F X M, Brass
21	EL90SBR025	1	Street Elbow 1/4", Brass
22	NV1-4-1007	1	Valve-Ball, 1/4" MNPT x 1/4" FNPT
23	GP1500	1	Gauge, 2-1/2" Dial, Liquid Filled, SS Case
24	EL4596K14	1	1" Elbow
25	FV1-0411	1	Jobe Float Valve, 1"
26	FCPVC100	1	1" Pipe Coupling
27	PSD10-NH-0116	1	Tube-Float Valv Discharge Hose 1 1/4" OD. 14" LG
28	WDHC118	1	Hose Clamp (13/16" - 1 1/2") Breeze
29	PSD10-D	1	Level Measurement Sub Assy
30	PPVCSC80X075X01500	1	3/4" PVC Pipe x 15"
31	PS2H25-DH	1	Discharge Hose (Pressure Line) with Crimp Fittings

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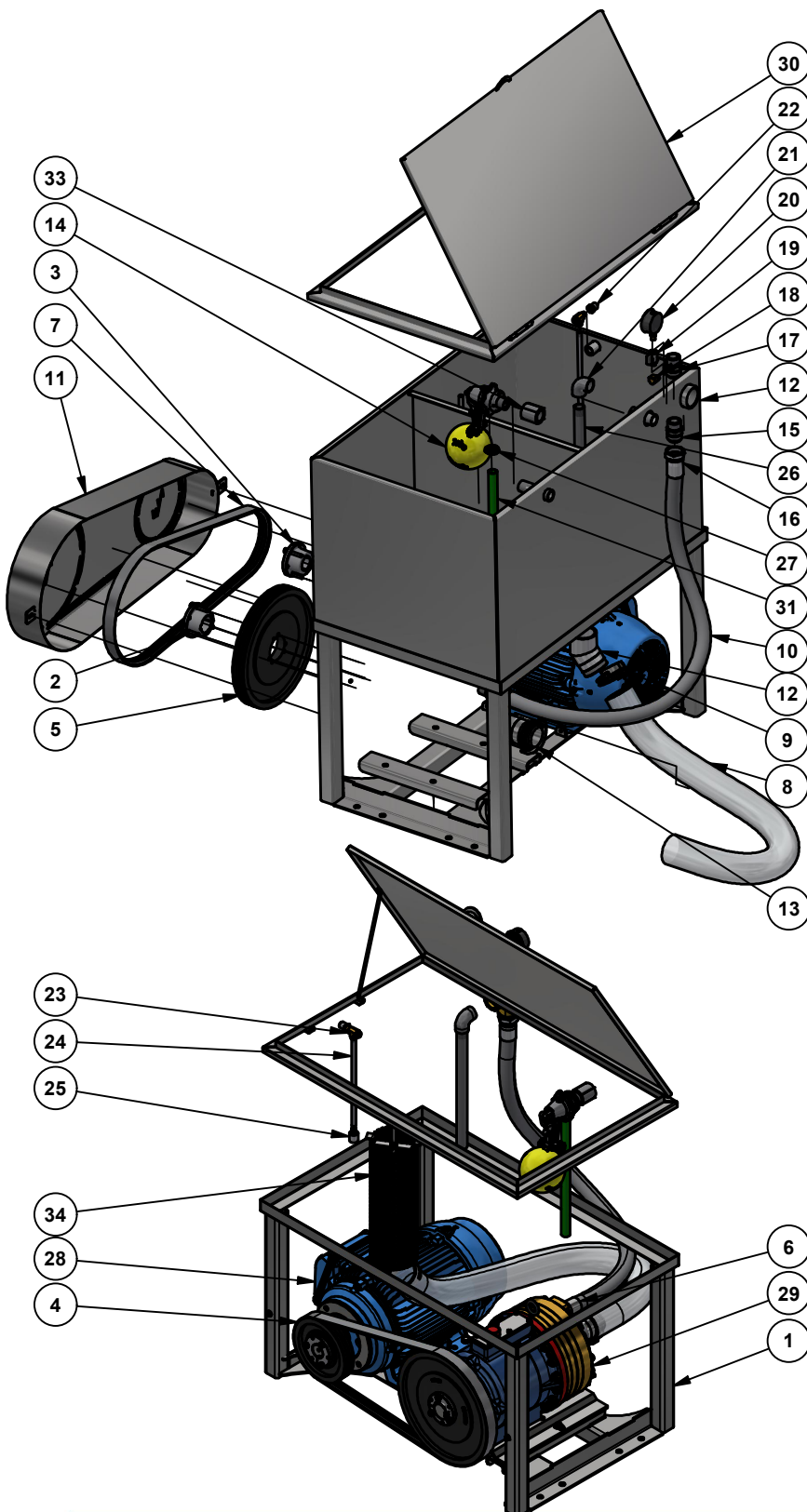
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Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	PS2D10-A	1	Stand (for PS2D10)
2	EM7-5-1800-213TC	2	Motor(Electric-C Footed): 7.5HP,1800RPM,230/460VAC
3	PSD10-P08	2	Pump (Hydra-Cell): D10
4	SHV-33V500SDS	2	Pulley/Sheave, 3/3V5.0-SDS
5	STB-SDS138	2	Bushing (Split Taper): SDS x 1-3/8"
6	SHV-33V800SK	2	Pulley/Sheave, 3/3V8.0-SK
7	STB-SK078	2	Bushing (Split Taper): ASK X 7/8"-KW
8	VBELT3R3VX475	2	V-Belt, 3R3VX475 (47-1/2") for D10 Pumping Station
9	PSD10-PC	2	Belt Guard, D10
10	BRB316100100	2	1" x 1" SS Barb Hose Nipple NPT
11	PS2D10-NHU26	1	Hose: Intake, 1-1/4"OD x 26"LG
12	PS2D10-T	1	Tank: for Double D10 Pump Station
13	WDHC118	5	Hose Clamp (13/16" - 1 1/2") Breeze
14	EL90PVC075S80	2	3/4"NPT PVC Female Elbow
15	PPVCSC80X075X0 1500	2	3/4" PVC Pipe x 15"
16	FV1-0411	1	Jobe Float Valve, 1"
17	FCPVC100	1	1" Pipe Coupling
18	PSD10-NH-0116	1	Tube-Float Valv Discharge Hose 1 1/4" OD. 14" LG
19	PSD10-C	2	Manometer_Pressure Regulator Assy
20	PSD10-D	1	Level Measurement Sub Assy
21	PSD10-SS10	2	Hydraulic Suction Strainer
22	PS2D10-DHL	1	Discharge Hose, 3/4" I.D. x 40-1/2"LG, Lower Pump
23	PS2D10-DHU	1	Discharge Hose, 3/4" I.D. x 33-1/2"LG, Upper Pump
24	PSD10-V	1	Cover/Lid for Tank for D10
25	PS2D10-NHL35	1	Hose: Intake, 1-1/4"OD x 35"LG

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Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	PSD35-A	1	Stand Only for D35
2	STB-SK200	1	Bushing (Split Taper): SK X 2"
3	STB-SK158	1	Bushing (Split Taper): ASK X 1-5/8"
4	SHV-33V800SK	1	Pulley/Sheave, 3/3V8.0-SK
5	SHV-33V1400SK	1	Pulley/Sheave, 3/3V14.0-SK
6	1AV20MP20	1	1 1/4" Global Crimp Fitting (male)
7	VBELT3R3VX750	1	V-Belt, 3R3VX750 (75") for D35 Pumping Station
8	PSD35-NH	1	Intake Hose
9	SDBC3	2	Tiger Clamp, 3" Double Bolt
10	PSD35-DH	1	Flexible Hose
11	PSD35-PC	1	Belt Guard, D35
12	PSD35-T	1	Tank: for single D35 Pump Station, 40"x25"x22"
13	BRB250X250	1	Barb (Hose Nipple) 2-1/2" x 2-1/2"NPT male
14	FV1-0411	1	Jobe Float Valve, 1"
15	CNCTSTL125JIC 125MNPT	1	1 1/4" JIC Adapter Straight
16	1AV20FJ20	1	1 1/4" Global Crimp Fitting (female)
17	CNCTSTL125JIC 125MNPT-TAP	1	1 1/4" JIC Adapter Straight (with hole)
18	EL90SBR025	1	Street Elbow 1/4", Brass
19	NV1-4-1007	1	Valve-Ball, 1/4" MNPT x 1/4" FNPT
20	GP1500	1	Gauge, 2-1/2" Dial, Liquid Filled, SS Case
21	EL4596K14	1	1" Elbow
22	RB304050X025	1	Adapter Reducer - 1/2" M-NPT x 1/4" F-NPT
23	TEE304050	1	1/2" male - female - female tee
24	LLS1-TUBE	1	1/4" x 12" Nipple
25	LLS1	1	Low Level Switch 1/4"
26	FV1-C-PIPE16	1	1" PVC Pipe, 16"LG
27	WDHC118	1	Hose Clamp (13/16" - 1 1/2") Breeze
28	EM20-1800-256T C	1	Motor (ELECTRIC-C FACE FOOTED) 20HP 1800RPM
29	PSD35-P35	1	Pump (Hydra-Cell): Wanner D35
30	PSD5-V	1	Cover/Lid for Tank for D35 Pumping Stations, with Hinge and Support
31	PSD35-FVH	1	Green PVC Hose, 1"ID, 16"LG
32	PSD35-RV35	1	Valve-Pressure Regulating, 5-40GPM, 500-1000 psi
33	FCPVC100	1	1" Pipe Coupling
34	PSD35-SS35	1	D35 Single Suction Strainer

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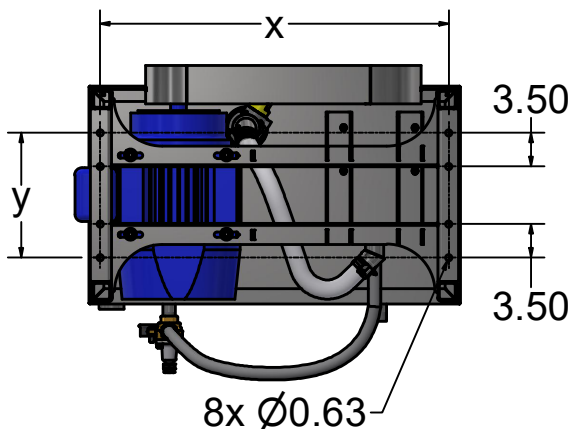
Maintenance Instructions

- Maintenance instructions are given per individual pump & motor.
- See "Pump Maintenance Data" table below for lubrication interval and amount of grease requirement
- Change oil after first 100 hours of operation. See "Motor Maintenance Data" table for subsequent oil change interval.
- Use Mobil Polyrex EM grease, which features a polyurea thickener and refined mineral oil. This makes it compatible with greases that include lithium-based, lithium-complex, or polyurea thickeners, as well as refined mineral oil. The grease used must contain corrosion and oxidation inhibitors. Generally, greases with the same thickener type are mutually compatible.
- In order to lubricate the bearings while the motor is stopped:
 1. Clean the grease nipple and surrounding area
 2. Lift the grease inlet protection
 3. Remove the grease outlet plug
 4. Pump half of required grease
 5. Run motor for one minute
 6. Turn off motor and pump remainder half of grease
 7. Lower the grease inlet protection and reinstall the grease outlet protection
- In order to lubricate the bearings while the motor is operating:
 1. Clean the grease nipple and surrounding area
 2. Pump all of required grease
 3. Lower the grease inlet protection
- Regularly inspect belt for signs of wear, cracks, or misalignment and replace as necessary.
- Inlet pressure must not exceed 250psi on initial start-up.
- Adjust the pressure regulating valve to a maximum of 10% over the working pressure of the system. This can be done by rotating black hexagonal adjustment screw on the pressure regulator to adjust pressure; increase pressure by tightening (clockwise) or decrease by loosening (counterclockwise).

Motor Maintenance Data		
Motor Type	Grease (g)	Lubrication interval (hours)
213TC	11	25000
254TC	13	25000
256TC	13	25000

Pump Maintenance Data	
Pump Type	Oil Change Interval (hours)
H25	2000
D10	2000
D35	1500

MOUNTING INFORMATION



Mounting Dimensions		
x (in)	y (in)	Bottom Pump Type
36.3	13.0	H25
29.3	8.00	D10
38.3	16.0	D35

REVISION TABLE				
Rev	ECN #	Description	Date	Initials
A		Initial Release	21Feb2024	JP