

Vacuum Regulator

**PM Kit Ref
Number**
Service & Part Number

(See Note 1)	Key	Qty.	Part Description	CL ₂ , CL ₂	SO ₂	NH ₃
	1	1	Inlet Valve Assembly - See Note 2, 3,& 6	SEE CHART	SEE CHART	SEE CHART
1, 2	1B		Inlet Valve Assembly w/out Key 3 plate	SEE CHART	SEE CHART	SEE CHART
	+2	1	Replacement Filter	BM-1023	BM-1023	BM-1023
	3	1	Plate, Inlet Fitting Support-(See Note 6)	SEE CHART	SEE CHART	SEE CHART
	3A	1	Nut, Jam / Clip	SEE CHART	SEE CHART	SEE CHART
	3B	1	Fitting, Gas Inlet -(See Note 6)	SEE CHART	SEE CHART	SEE CHART
	4	1	Disc, Perforated	350C016P30	350C016P30	350C016P30
	5	1	Spring, Valve	424A431U01	424A431U01	424A431U01
2	6	1	Valve Plug Assembly	SEE CHART	SEE CHART	SEE CHART
2	7	1	Diaphragm Pad	SEE CHART	SEE CHART	SEE CHART
	8	1	O-ring, Seat Seal	101W902U01	101W902U01	101A902U01
2	9	1	Valve Seat Assembly (Includes Key 8)	SEE CHART	SEE CHART	SEE CHART
1, 2	10	1	O-ring, Bonnet Seal	101W709U01	101W709U01	101A709U01
	11	1	Bonnet, Valve	433B060U01	433B060U01	433B060U02
1, 2	12	1	O-ring, Inlet Seal	101W716U01	101W716U01	101A716U01
	13	1	Fitting, Adaptor: ½" NPT x 5/8" OD Tube Elbow	111G001U06	111G001U06	111G001U06
	13A	1	Bushing, 1/2" MNPT x 1/4" FNPT	R-246	R-246	R-246
	13B	1	1/4" NPT x 3/8" Tubing Connector	F-100-1	F-100-1	F-100-1
	13C	1	1/4" NPT x 1/2" Tubing Connector	F-106-1	F-106-1	F-106-1
	15	2	Screw, Pan Head: ¼ - 20 x 2"	036B208M10	036B208M10	036B208M10
	16	8	Screw, Pan Head: ¼ - 20 x 3"	036B308M10	036B308M10	036B308M10
	17	10	Washer, Plain: ¼"	095A008U01	095A008U01	095A008U01
	18	1	Rear Body Assembly	19538	19538	19863
	19	1	O-ring, Diaphragm Stop	101W707U01	101W707U01	101A707U01
	20	1	Stop, Diaphragm	19545	19545	19545
1	+21	1	O-ring, Gas Shut-off Seal	101W712U01	101W712U01	101A712U01
	22	1	Retainer, O-ring	19547	19547	19547
	23	1	Bolt, Diaphragm	19550	19550	19550
1	+24	1	Diaphragm	425B142U01	425B142U01	425B142U01
	25	1	Plate, Diaphragm Backing	19551	19551	19551
1	+26	1	O-ring, Guide Rod Seal	101W707U01	101W707U01	101A707U01
	27	1	Diaphragm Guide Rod-Assembly	649B062U01	649B062U01	649B062U01
	28	1	Diaphragm Plate Guide-Assembly	19628	19628	19628
	29	1	Level, Status	647B161U01	647B161U01	647B161U01
	30	1	Front Body Assembly	19552	19552	19552-1
	31	1	Plate, Status indicator	19539	19539	19539
	32	1	O-ring, Guard	101W917U01	101W917U01	101A917U01
	33	2	Screw, Adjustment	396G165U01	396G165U01	396G165U01
	34	2	Caplug	114A033U01	114A033U01	114A033U01
	35	2	Detent Plug	366A275U01	366A275U01	366A275U01
	36	2	Spring	424A425U01	424A425U01	424A425U01
1	+37	1	O-ring, Diaphragm Bolt Seal	101W001U13	101W001U13	101A001U02
1	+38	1	O-ring, seat seal	102E077U33	102E077U33	21716
	39	1	Seat, Spring	378D051U01	378D051U01	378D051U01
	40	1	Spring	424A424U01	424A424U01	424A424U01
1	+41	1	O-ring, Adaptor Seal	101W917U01	101W917U01	101A917U01
	42	1	Adaptor	365B073U01	365B073U01	365B073U01
	43	1	Fitting, Adaptor: ¼" NPT x 5/8" OD Tube	111G002U09	111G002U09	111G002U09
	43A	1	Fitting, 1/4" NPT x 3/8" Tubing	F-100-1	F-100-1	F-100-1
1	+44	1	O-ring, Rear Body Seal	102E077U37	102E077U37	102E077U36
1, 2	45		Gauge, Inlet Valve	Supplied in PM Kits 614S090U01 & 668B130U01		

N/A indicates Not Applicable

+ Recommended Spare Parts

See Page 3 for additional notes concerning Part Numbers and Preventative Maintenance Kits.

Chart

KEY	WITH NUT RETAINER *			WITH CLIP RETAINER		
	CL ₂ , CO ₂	SO ₂	NH ₃	CL ₂ , CO ₂	SO ₂	NH ₃
1	19707	22701	19780	23047	23057	23066
1B	19441	22695	19238	23019	23026	23032
3	19481	19481	19481	22952	22952	22952
3A	397B067U01	397B067U01	397B067U01	U-1830	U-1830	U-1830
3B	364E187U03	364E187U03	364E187U04	22943	22943	23035
6	668B146U01	668B146U02	668B146U02	22948-1	22948-2	22948-2
7	433B063U01	433B063U01	433B063U02	22944-1	22944-1	22944-2
9	668B128U01	668B128U01	668B128U03	23082	23082	23085

* The nut retainer design was discontinued in February 2008. The inlet valve assemblies, Key 1 and 1B are no longer available. Check the factory for Key 3, 3A, 3B, 6, 7, and 9 for availability. The parts between the nut retainer design and the clip retainer design are not interchangeable.

Vacuum Regulator Accessory Kit P/N 614S113U01

<u>Qty.</u>	<u>Part Description</u>	<u>Part Number</u>
1	Tube Fitting - Elbow 1/2 - 5/8"	111G001U06
1	Insect Screen	127A009U01
1	Grease Lubricant	140B001U01
6	Filter Pad	BM-1023
1	Wrench, Chlorine	430A011S60
4	Lead Gasket (U.S. Valves)	G-111
1	Poly bottle - 4 ox. #11637	R-214

Preventive Maintenance Kits:

<u>PM Kit Ref #.</u>	<u>PM Kit Description</u>	<u>Part Number</u>
1	Vacuum Regulator (Chlorine, Sulfur Dioxide & Carbon Dioxide service)	614S090U01
2	Inlet Valve (Chlorine & Carbon Dioxide service) with nut retainer	668B130U01
	Inlet Valve (Sulfur Dioxide service) with nut retainer	668B130U04
	Inlet Valve (Chlorine & Carbon Dioxide service) with clip retainer	23080-1
	Inlet Valve (Sulfur Dioxide service) with clip retainer	23080-2
	Inlet Valve Filters & Lead Gaskets (10 each)	614S091U01
	Lead Gaskets (25 each)	BM-4901

NOTES:

- Listed parts are available in preventive maintenance kits for chlorine and sulfur dioxide service only. For ammonia service, order parts separately.
- Valve assembly (Key 1) with nut retainer may be replaced with (Key 1) clip retainer assembly. Key 1B, 3, 3A, & 3B are not inter-change between the two configurations.
- When parts are replaced in the inlet valve assembly (Key 1) with nut retainer, the dimension between the inside of the plate and the tip of the diaphragm pad (Key 7) must be as shown in Detail B. Adjustment is made by loosening jam nut (Key 3A) and rotating the gas inlet fitting (Key 3B). Use the Inlet Valve Gauge (Key 45) supplied in the PM Kits to set the proper dimension.
- For a complete Vacuum Regulator as shown w/out Key 13 Series fittings use P/N 19715 for CL₂ or 22709 for SO₂.
- Refer to parts list 100.7605 for North American and 100.7604 for International yoke assemblies.
- Valve assembly (Key 1) with nut retainer may be replaced with (Key 1) clip retainer assembly. Key 1B, 3, 3A & 3B are not interchangeable between two configuration.
- Exact vacuum regulator replacements for the former Fischer & Porter Series 1700 are no longer available. Replacement will entail changing the yoke or heater/manifold assemblies as well.

USING PARTS OTHER THAN GENUINE STWP PARTS:

- CAN RESULT IN MALFUNCTION OF THE EQUIPMENT AND POTENTIALLY CAUSE SERIOUS PERSONAL AND ENVIRONMENTAL HEALTH AND SAFETY HAZARDS
- WILL VOID YOUR EQUIPMENT WARRANTY
- WILL VOID YOUR LIABILITY CLAIMS TO STS

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