

Contents

1	Introduction	2
1.1	Intended Use	2
1.2	Item number structures	3
1.3	Type plate	6
1.4	Scope of delivery	6
2	Safety instructions	7
2.1	Important advice	7
2.2	General hazard warnings	8
3	Transport and storage	10
4	Installation and connection	11
4.1	Requirements to the installation site	11
4.1.1	Outdoor installation	12
4.2	Installation	12
4.3	Special condition moist sample gas	12
4.3.1	Alteration of hanging pump bodies	13
4.4	Connecting the gas tubes	14
4.4.1	Monitoring the sample gas pump	14
4.5	Electrical connections	15
5	Operation and control	17
5.1	Switching on the sample gas pump	18
5.2	Operating the sample gas pump	18
6	Maintenance	19
6.1	Maintenance schedule	21
6.2	Inspecting the bellow	22
6.3	Replacing bellow and connecting rod-eccentric-combination	23
6.4	Replacement of the O-ring of the bypass valve (optional)	24
6.5	Replacing the inlet and outlet valves	24
6.6	Cleaning	24
6.6.1	Cleaning the pump console	24
6.6.2	Cleaning the motor	25
6.7	Inspecting and replacing the flexible spider	25
6.8	Order number for the 43.800h inspection	26
7	Service and repair	27
7.1	Troubleshooting	28
7.2	Spare Parts	29
7.2.1	Spare parts and accessories	29
8	Disposal	30
9	Appendices	31
9.1	P2.2/P2.4 ATEX technical data	31
9.2	Technical data P2.72/P2.74 ATEX	32
9.3	Technical Data P2.x ATEX-H2/-O2	33
9.4	Important motor notices	34
9.5	Dimensions	35
9.6	List of chemical resistance	36
9.7	User book (Please make copies)	37
10	Attached documents	38