

Customizable Pump Data Sheet for RFQ (with limited scope of supply) Specifications and Performance Data Sheet

SANDPIPER® 8

GSER&ES

P	а	g	e	1

Requester's LOGO NATURAL GAS OPERATED DOUBLE DIAPHRAGM PUMP DATA SHEET							Document No Revision No Item No			C h a g e s			
	For:	Proposal		Purchase		As Built							
1	Contract No.			•	4			1					
2	Purch Order												-+-1
3	Tag/Item No.												
4	Client Name:												
5	Location:												
6	Service Area:			Ha	zardous	Area Classi	ification:	Zone Group	_ Class Other:	Unclassified (non-H	azardous)		
7	Applicable Standards:												
8	Manufacturer:								Quantity: Pumps in O	peration:	Spare(s):		_
9	Pump Size :												
	CONSTRUCTION								OPERATING CONDITIONS &	LIQUID CHARA	CTERISTI	ICS (for each pump)	
	Liquid End:								Service / Duty (Intermittent/Continuous)				
	Gas End (Center Section):	Cina	ANCI Datia		Turne	Desitien			Fluid Pumped:				
12 13	Connections: Suction:	Size	ANSI Rating	Face	rype	Position Top			Corrosion/Erosive Due To: Liquid Temperature (PT):	°F / °C	<u> </u>		+
13	Discharge:				1	Bottom			Ambient Temperature:	°F/°C			+
14	Gas Inlet:			1	1	N/A			Specific Gravity @Duty PT:	1, 0	1		++
	Hydrotest Pressure:			•	500 p				Viscosity @Duty PT:	cps	1		+
17	No. of Diaphragm Chambers:				2				Vap. Pressure @Duty PT	psia/bara			
	Inlet and Outlet Valve Type:	-		-					Discharge Pressure	psig/barg			
	Pump Type:								Suction Pressure	psig/barg	I		\square
20 21 22 23									Capacity @ PT:	gpm / m3/hr			$-\square$
21									Gas Supply Pressure:	psig/barg	 		++
22									Gas Supply Pressure: NPSH Available	psig/barg FT/M			+
24									H ₂ S Concentration	ppvm			
25									Solids	Size / % Conc			
	MATERIALS									PERFORMANCE			
26	Diaphragms:								Rated Capacity (GPM/M3/Hr):				
	Check Valve Balls/Flaps:								NPSH Required (FT/M):				
_	Check Valve Seats:								Max Gas Consumption: (scfm / m3/hr)				
_	Gas Valve O'rings:								Max Gas Inlet Pressure :(psig/barg)				
_	Gas Valve Gaskets								Max Discharge Pressure: (psig/barg)				
30	Gus vuive Guskets								iviax Discharge Pressure. (psig/barg)				
31	Suction Manifold												
31									LAB TEST	REQUIRE	D	WITNESSED	
31 32 33	Suction Manifold								LAB TEST Hydrostatic Test:	REQUIRE	D	WITNESSED	
31 32 33 34	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig								LAB TEST Hydrostatic Test: Performance Test:	REQUIRE	D	WITNESSED	
31 32 33 34 35	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve								LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below)	REQUIRE	Đ	WITNESSED	
31 32 33 34 35 36	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig								LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other:	REQUIRE	Đ	WITNESSED	
31 32 33 34 35	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig								LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	Đ	WITNESSED	
31 32 33 34 35 36 37	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter							SCOPE OF SUPP	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	Đ	WITNESSED	
31 32 33 34 35 36 37 38	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design:	red. doub	le diaphragn					SCOPE OF SUPP	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	D	WITNESSED	
31 32 33 34 35 36 37 38 38 39	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter			n pump				SCOPE OF SUPP	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	Đ	WITNESSED	
31 32 33 34 35 36 37 38 39 40 41	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged	onnections	s fluid connect	tions					LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	ED	WITNESSED	
31 32 33 34 35 36 37 38 38 39 40 41 42	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing co NPT threaded or ANSI flanged Main gas valve and pilot valve	onnections process to be repa	s fluid connect airable or rep	tions	without	disconne	ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	Đ	WITNESSED	
 31 32 33 34 35 36 37 38 39 40 41 42 43 	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir	onnections process to be repa	s fluid connect airable or rep	tions	without	disconne	ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	Đ	WITNESSED	
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing co NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction:	onnections I process to be repangle conne	s fluid connect airable or rep ection	tions	without	disconne	ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	Đ	WITNESSED	
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 	Suction Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga	onnections I process to to be repa ngle conne s housing	s fluid connect airable or rep ection s	tions	without	disconne	ecting pr		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	Đ	WITNESSED	
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing co NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction:	onnections I process to to be repa ngle conne s housing	s fluid connect airable or rep ection s	tions	without	disconne	ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	D	WITNESSED	
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga	onnections I process to to be repa ngle conne s housing	s fluid connect airable or rep ection s	tions	without	disconne	ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE		WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sin Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liqu Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms	onnections l process to be repa ngle conne s housing uid housin	s fluid connect airable or rep ection s s ugs	tions placeable			ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	ËD	WITNESSED	
31 32 33 34 35 36 37 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liqu Nitrile or PTFE diaphragms Nitrile or Viton gas end seals Diaphragm connecting rod to b	onnections l process to be repa ngle conne s housing uid housin	s fluid connect airable or rep ection s s ugs	tions placeable			ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	ED	WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel ga Aluminum or stainless steel ga Nitrile or PTFE diaphragms Nitrile or PTFE check balls Nitrile or VIton gas end seals Diaphragm connecting rod to b Certifications:	onnections I process to to be reparangle conne s housing uid housin be 416 sta	s fluid connect airable or rep ection s s ings inless steel o	tions placeable or 316 sta	inless s	steel	ecting p		LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE	ED	WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel ga Aluminum or stainless steel liq Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or VIton gas end seals Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na	onnections I process to to be reparation ngle connections s housing uid housin pe 416 sta tural Gas C	s fluid connect airable or rep ection s s ugs inless steel o Dperated Diag	tions placeable or 316 sta phragm Pu	iinless s	steel		rocess fluid connect	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE		WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel iga Aluminum or stainless steel iga Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or Viton gas end seals Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa	onnections I process to be reparagle connections s housing uid housin be 416 sta tural Gas C tion Letter	s fluid connect airable or rep ection s s ggs inless steel o Dperated Diag No. R-14 Nat	tions placeable or 316 sta phragm Pu tural Gas O	iinless s	steel		rocess fluid connect	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other:	REQUIRE		WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liqu Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or VITon gas end seals Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa Meters NACE MR0175/ISO 15156 M	I process to be reparation of the temperature gale connection of the temperature s housing uid housing the 416 state tural Gas C tion Letter Aterial Re	s fluid connect airable or rep ection s ggs inless steel of Deperated Diag No. R-14 Nat	tions placeable or 316 sta phragm Pu tural Gas O ons	iinless s mps (US)perated	steel GA) I Diaphrag	gm Pump	rocess fluid connect	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings	REQUIRE		WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel iga Aluminum or stainless steel iga Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or Viton gas end seals Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa	pronections process to be reparation gle connection s housing uid housin be 416 sta tural Gas C tion Letter Aaterial Re 2 (Alumin	s fluid connect airable or rep ection s ggs inless steel of Deperated Diag No. R-14 Nat	tions placeable or 316 sta phragm Pu tural Gas O ons	iinless s mps (US)perated	steel GA) I Diaphrag	gm Pump	rocess fluid connect	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings	REQUIRE		WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel iga Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or Viton gas end seals Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to ANSI LC6-2008 Na CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa Meets NACE MR0175/ISO 15156 N ATEX Certified: Group II, Category Manufacturing and Productio 100% testing of gas-containing	process i process i to be reparagle connection s housing uid housing tural Gas C tion Letter Aaterial Re 2 (Alumini n Tests: housings	s fluid connect airable or rep ection s s ggs inless steel o Operated Diag No. R-14 Nat commendati um gas or flui - pumps sha	or 316 sta phragm Pu tural Gas O ons id housings all not leal	iinless s mps (US)perated s); Group k exterr	steel SA) I Diaphrag D II, Catego nally at a	gm Pump ory 1 (St rate in e	rocess fluid connect os (Canada) ainless steel gas and f excess of 200 cm ³ p	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liqu Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa Meets NACE MR0175/IS0 15156 N ATEX Certified; Group II, Category Manufacturing and Productio 100% testing of gas-containing All parts of the pump subjected	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nragms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and f excess of 200 cm ³ p nstand a hydrostatic	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liqu Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE check balls Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa Meters NACE MR0175/ISO 15156 h ATEX Certified: Group II, Category Manufacturing and Productio 100% testing of gas-containing All parts of the pump subjected Resistance to static electric char	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nragms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and f excess of 200 cm ³ p nstand a hydrostatic	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel ga Aluminum or stainless steel ga Aluminum or stainless steel ga Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or Viton gas end seals Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa Meets NACE MR0175/ISO 15156 Na ATEX Certified: Group II, Category Manufacturing and Productio 100% testing of gas-containing All parts of the pump subjected Resistance to static electric ch: Temperature Limits:	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nragms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and f excess of 200 cm ³ p nstand a hydrostatic	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 9 50 51 52 53 54 55 56 57 58 59 60 61	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liq Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE check balls Nitrile or PTFE check balls Nitrile or NISI LC6-2008 Na CSA certified to ANSI LC6-2008	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nragms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and f excess of 200 cm ³ p nstand a hydrostatic	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel ga Aluminum or stainless steel ga Aluminum or stainless steel ga Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or Viton gas end seals Diaphragm connecting rod to b Certifications: CSA certified to ANSI LC6-2008 Na CSA certified to Technical Informa Meets NACE MR0175/ISO 15156 Na ATEX Certified: Group II, Category Manufacturing and Productio 100% testing of gas-containing All parts of the pump subjected Resistance to static electric ch: Temperature Limits:	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nagms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and f excess of 200 cm ³ p istand a hydrostatic een the grounding c	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liq Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE check balls Nitrile or PTFE check balls Nitrile or NISI LC6-2008 Na CSA certified to ANSI LC6-2008	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nagms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and f excess of 200 cm ³ p nstand a hydrostatic	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liq Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE check balls Nitrile or PTFE check balls Nitrile or NISI LC6-2008 Na CSA certified to ANSI LC6-2008	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nagms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and t excess of 200 cm ³ p istand a hydrostatic een the grounding c	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liq Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE check balls Nitrile or PTFE check balls Nitrile or NISI LC6-2008 Na CSA certified to ANSI LC6-2008	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nagms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and t excess of 200 cm ³ p istand a hydrostatic een the grounding c	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liq Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE check balls Nitrile or PTFE check balls Nitrile or NISI LC6-2008 Na CSA certified to ANSI LC6-2008	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nagms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and t excess of 200 cm ³ p istand a hydrostatic een the grounding c	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Suction Manifold Discharge Manifold Discharge Manifold Inlet Gas Inlet Valve Inlet Gas Regulator (Max 100 psig Inlet Gas Filter Pump Type/Design: Compressed natural gas powe Bolted fluid and gas housing cc NPT threaded or ANSI flanged Main gas valve and pilot valve Natural gas exhaust to be a sir Materials of Construction: Aluminum or stainless steel ga Aluminum or stainless steel liq Nitrile or PTFE diaphragms Nitrile or PTFE diaphragms Nitrile or PTFE check balls Nitrile or PTFE check balls Nitrile or NISI LC6-2008 Na CSA certified to ANSI LC6-2008	In process is process is process is process is to be reparagle connections is housing uid housing uid housing uid housing the 416 states is the 416 states is processed and the states is processed and the states is processed and the states is processed in the pressure of the states is processed in the states in the states is processed in the states in the states is processed in the states in the states in the states is processed in the states i	s fluid connect airable or rep action s ggs inless steel of Deprated Diag No. R-14 Nat commendatio um gas or flui - pumps sha ure, except th	tions placeable or 316 sta phragm Pu tural Gas O ons id housings all not leal he pumpin	inless s mps (US)perated s); Group k exterr ng diaph	steel 5A) I Diaphrag D II, Catego nally at a in nagms, s	gm Pump ory 1 (St rate in e shall with	rocess fluid connect os (Canada) ainless steel gas and t excess of 200 cm ³ p istand a hydrostatic een the grounding c	LAB TEST Hydrostatic Test: Performance Test: Snoop Test: (see line 57 below) Other: Other: LY ions or disassembling fluid housings luid housings) er hour at 150 PSI test pressure test of 5 times the maximum rated ope			WITNESSED	

DATA SHEET Specifications & Performance

Certified Quality

((



Quality System ISO9001 Certified



Environmental Management System ISO14001 Certified





Certified to CSA Technical Letter No, R-14



Certified to ANSI LC6-2008

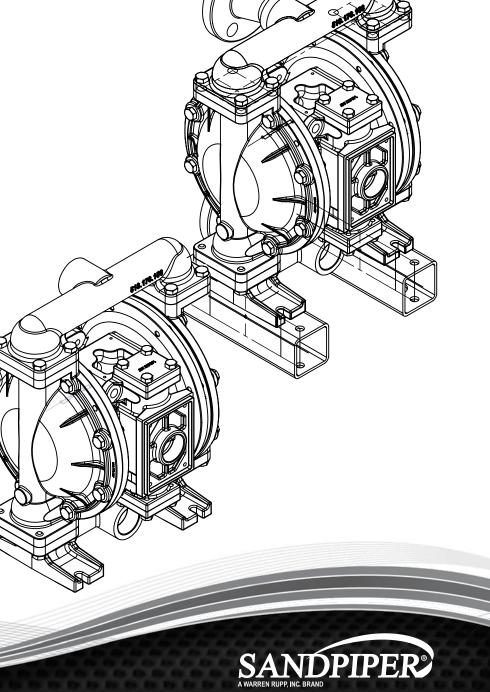
Warren Rupp, Inc. A Unit of IDEX Corporation 800 N. Main St., Mansfield, Ohio 44902 USA Telephone 419.524.8388 Fax 419.522.7867 WWW.SANDPIPERPUMP.COM



© Copyright 2014 Warren Rupp, Inc. All rights reserved

Model G1F

Metallic Design Level 1 Natural Gas-Operated Diaphragm Pumps



WWW.SANDPIPERPUMP.COM

Explanation of Pump Nomenclature

Your Model #: (fill in from pump nameplate)			-	_	_			-	_	_		
	Pump Brand	Pump Size	Check Valve	Design Level	Wetted Material	Diaphragm/ Check Valve		Non-Wetted Material	Porting Options	Pump Style	Muffler Options	Pump Options
Model #:	G	XX	X	X	X	X	X	X	X	X	X	XX

Pump Brand

G Natural Gas Operated

Pump Size

Check Valve Type

B Ball

Design Level1Design Level

Wetted Material

s Stainless Steel

A Aluminum

Diaphragm/Check Valve Materials

- B Nitrile/Nitrile
- T PTFE -Nitrile/PTFE
- 5 Nitrile/PTFE

Check Valve Seat

- T Virgin PTFE
- A Aluminum
- s Stainless Steel

Non-Wetted Material Options

- A Painted Aluminum
- B Unpainted Aluminum with Stainless Steel Gas Valve
- D Unpainted Aluminum with Stainless Steel Gas Valve with FKM O-rings
- x Unpainted Aluminum
- 0 Unpainted Aluminum/FKM Elastomer
- V Painted Aluminum/ FKM Elastomer

Porting Options

- N NPT Threads
- B BSP (Tapered) Threads
- R 150# Raised Face 1" ANSI Flange w/ Threaded Pipe Connections
- W 150# Welded Raised Face 1" ANSI Flanged Manifolds

Pump Style

S Standard

Muffler Options

X No Muffler Permitted *

Your Serial #: (fill in from pump nameplate)

ATEX Detail

(Ex) || 2G c T5 || 3/2 G c T5 || 2D c T100°C †

(1)

Models equipped with Wetted Options A or S, Non-Wetted Options A, B, D, X, 0, or V, Pump Option X.

Note: See ATEX Explanation of Type Examination Certificate



WWW.SANDPIPERPUMP.COM



Performance

G1F Metallic

SUCTION/DISCHARGE PORT SIZE

BAR

7

6

5

3

2

1

0

HEAD 4 PSI

100

80 8n[°]

60

60

PSI

5(8.5) SCFM (M³/hr)

Ì

15(25.5

20(34)

25(42.5)

30(51)

100 PSI (6.8 Bar)

• 1"

CAPACITY

 0 to 45 gallons per minute (0 to 170 liters per minute)

GAS VALVE

· No-lube, no-stall design

SOLIDS-HANDLING

• Up to .25 in. (6mm)

HEADS UP TO

 100 psi or 231 ft. of water (7 bar or 70 meters)

MAXIMUM OPERATING PRESSURE

• 100 psi (7 bar)

DISPLACEMENT/STROKE

• .11 Gallon / .42 liter

SHIPPING WEIGHT

- Aluminum 28 lbs. (13kg)
- Stainless Steel 43 lbs. (20kg)

These pump models are designed to pump the following fluids: Crude Oil, Salt Water, Drilling Mud, Condensate, Lubrication Oils, Glycol, Caustic Liquids, and Acids."

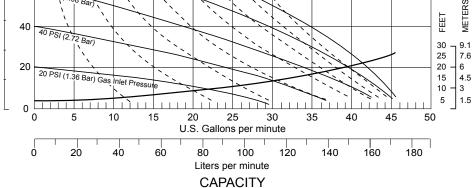
(4.08 Bar

35(59.5)

Performance based on the following: elastomer fitted pump, flooded suction, water at ambient conditions.

The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

40(68)



Exhaust Gas: The exhausted natural gas must be vented to a low pressure safe location in accordance with local fire safety and environmental codes, or in the absence of local codes, an industry or nationally recognized code having jurisdiction over the specific installations, and/or CAN/CGA B149, Installation Codes

Materials

Material Profile:	Operating Temperatures:				
CAUTION! Operating temperature limitations are as follows:	Max.	Min.			
FKM : (Fluorocarbon) Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F(21°C)) will attack FKM.	350°F 177°C	-40°F -40°C			
Nitrile: General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C			
Virgin PTFE: (PFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE; molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	220°F 104°C	-35°F -37°C			
Maximum and Minimum Temperatures are the limits for which these materials can be operate Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.					
Metals:					

Stainless Steel: Equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.

For specific applications, always consult the Chemical Resistance Chart.

Ambient temperature range: -20°C to +40°C Process temperature range: -20°C to +80°C for models rated as category 1 equipment -20°C to +100°C for models rated as category 2 equipment

In addition, the ambient temperature range and the process temperature range do not exceed the operating temperature range of the applied non-metallic parts as listed in the manuals of the pumps.



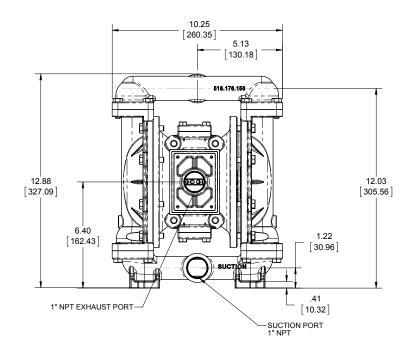
g1fmdl1ds-rev0214

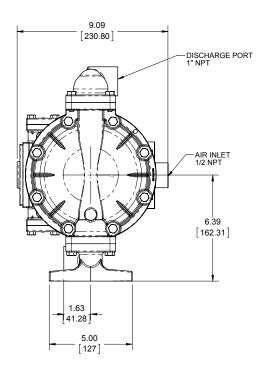
NPSHR

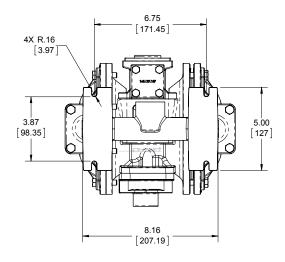
Dimensional Drawings

G1F Metallic - NPT

Dimensions in inches (mm dimensions in brackets). Dimensional Tolerance:±1/8" (± 3mm) The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.





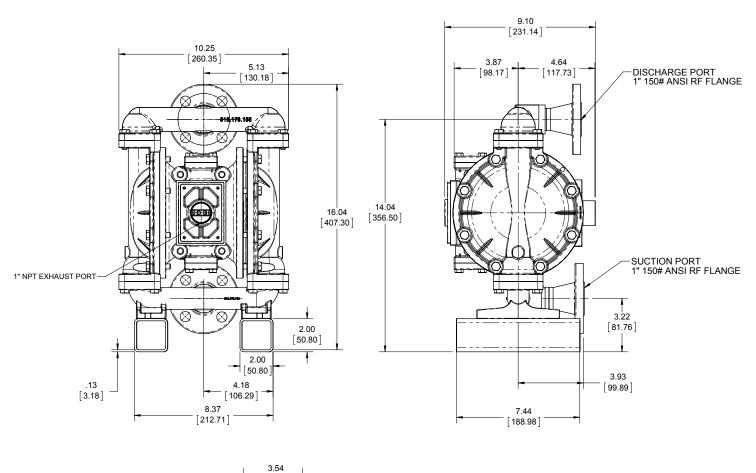


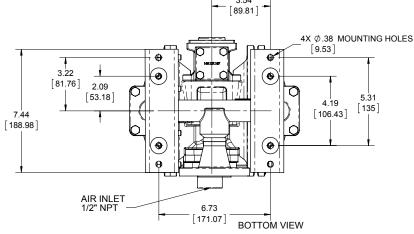


WWW.SANDPIPERPUMP.COM g1fmdl1ds-rev0214

Dimensional Drawings

G1F Metallic - ANSI Flange Dimensions in inches (mm dimensions in brackets). Dimensional Tolerance:±1/8" (± 3mm) The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.







Model G1F Metallic • 4

Written Warranty

5 - YEAR Limited Product Warranty

Quality System ISO9001 Certified • Environmental Management Systems ISO14001 Certified

Warren Rupp, Inc. ("Warren Rupp") warrants to the original end-use purchaser that no product sold by Warren Rupp that bears a Warren Rupp brand shall fail under normal use and service due to a defect in material or workmanship within five years from the date of shipment from Warren Rupp's factory. Warren Rupp brands include SANDPIPER®, MARATHON®, PortaPump®, SludgeMaster™ and Tranquilizer®.

~ See complete warranty at www. sandpiperpump.com/About/guaranteesandwarranties.html ~







EC Declaration of Conformity

In accordance with ATEX Directive 94/9/EC, Equipment intended for use in potentially explosive environments.

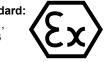
Manufacturer: Warren Rupp, Inc.®, A Unit of IDEX Corportion 800 North Main Street, P.O. Box 1568, Mansfield, OH 44901-1568 USA

EN 60079-25: 2004

For pumps equipped with Pulse Output ATEX Option KEMA Quality B.V. (0344)

AODD Pumps and Surge Suppressors For Type Examination Designations

Applicable Standard: EN13463-1: 2001, EN13463-5: 2003



AODD (Air-Operated Double Diaphragm) Pumps EC Type Examination Certificate No. Pumps: KEMA 09ATEX0071 X **KEMA Quality B.V.** Utrechtseweg 310 6812 AR Arnhem, The Netherlands



Tranquilizer®



DATE/APPROVAL/TITLE: 27 MAY 2010

David Roseberry, Engineering Manager

ATEX Summary of Markings

Туре		Marking	Listed In	Non-Conductive Fluids	
Pump types, S1F, S15, S20, and S30 provided with the pulse output option		II 2 G Ex ia c IIC T5 II 3/2 G Ex ia c IIC T5 II 2 D Ex c iaD 20 IP67 T100°C	KEMA 09ATEX0071 X CE 0344	KEMA 09ATEX0071 X KEMA 09ATEX0071 X KEMA 09ATEX0071 X	No Yes Yes
Pump types, S1F, S15, S20, and S30 provided with the integral solenoid option		II 2 G EEx m c II T5 II 3/2 G EEx m c II T5 II 2 D c IP65 T100°C	KEMA 09ATEX0071 X CE 0344	KEMA 09ATEX0071 X KEMA 09ATEX0071 X KEMA 09ATEX0071 X	No Yes Yes
Pump types, HDB1½, HDB40, HDB2, HDB50, HDB3, HDF1, HDF25, HDF2, HDF3M, PB¼, S05, S1F, S15, S20, S30, SB1, SB25, ST1½, ST40, G15, G20, and G30, without the above listed options, no aluminum parts	Æx>	II 1 G c T5 II 3/1 G c T5 II 1 D c T100℃ I M1 c I M2 c	KEMA 09ATEX0071 X KEMA 09ATEX0072 X CE 0344		No Yes Yes No Yes
Pump types, DMF2, DMF3, HDB1½, HDB40, HDB2, HDB50, HDB3, HDF1, HDF25, HDF2, HDF3M, PB¼, S05, S1F, S15, S20, S30, SB1, SB25, SE½, ST1, ST25, ST1½, ST40, U1F, G05, G1F, G15, G20, and G30		II 2 G c T5 II 3/2 G c T5 II 2 D c T100℃	KEMA 09ATEX0072 X CE	KEMA 09ATEX0072 X KEMA 09ATEX0072 X KEMA 09ATEX0072 X	No Yes Yes
Surge Suppressors all types		II 2 G T5 II 3/2 G T5 II 2 D T100°C	KEMA 09ATEX0073 CE	KEMA 09ATEX0073 KEMA 09ATEX0073 KEMA 09ATEX0073	No Yes Yes

EC Type Certificate No. Pumps: KEMA 09ATEX0071 X

Type Certificate No. Pumps: KEMA 09ATEX0072 X

Type Certificate No. Suppressors: KEMA 09ATEX0073