

PROCESS

AZ-1-86 Air driven pressurising pump

MAKING INTERVENTION
SMARTER

AZ-1-86 hydrostatic test pump



APPLICATIONS

- Air Consumption:- 28 scf @ 100 psi
- Maximum Working Pressure:- 8600 psi
- Maximum Flow at max pressure:- 0.5 ltr/min @ 8000psi
- Maximum flow capability:- 3.0 ltr/min @ 0 psi
- Inlet Connection:- 1/2" NPT female
- Outlet Connection:- 1/2" NPT female
- Air Connection:- 1/2" NPT female

FEATURES

- Infinitely variable air driven pressurising pump. Can be used for pumping water or chemicals
- Intrinsically safe stroke counter.
- Mounted in a stainless steel frame

BENEFITS

- ATEX certified

Weight Data

Gross Weight 26kg

Dimensions

Length 500mm

Width 365mm

Height 520mm

Table 1 Pressure - Static Condition

TYPICAL HYDRAULIC PRESSURE— STATIC CONDITION											
HYDRAULIC PRESSURE	AIR DRIVE PSI (BAR)	20 (1-4)		40 (2-8)		60 (4-1)		80 (5-5)		100 (6-9)	
		PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR
	AZ-1-10	180	12.4	385	26.6	590	40.7	795	54.8	1000	68.9
	AZ-1-12	200	13.8	450	31.0	700	48.3	980	67.6	1225	84.5
	AZ-1-19	330	22.8	700	48.3	1100	75.9	1500	103	1900	131
	AZ-1-26	475	32.8	1000	68.9	1550	107	2000	138	2625	181
	AZ-1-30	525	36.2	1150	79.3	1775	122	2350	162	3075	212
	AZ-1-36	600	41.4	1400	96.6	2125	147	2825	195	3625	250
	AZ-1-58	1000	68.9	2200	152	3400	234	4600	317	5800	400
	AZ-1-70	1175	81.0	2600	179	4100	283	5600	386	7000	483
	AZ-1-86	1700	117	3400	234	5100	352	6900	476	8600	593
	AZ-1-107	2000	138	4200	290	6400	441	8500	586	10700	738
	AZ-1-140	2400	166	5400	372	8300	572	11200	772	14000	966
	AZ-1-187	3250	224	7250	500	11250	776	15000	1034	18750	1293
	AZ-1-275	4000	276	10500	724	16250	1121	21500	1483	27500	1897
	AZ-1-425	8000	552	16500	1138	25500	1759	34000	2345	42500	2931

Table 2 Discharge Pressure/Flow at 100psi

APPROXIMATE RATE OF DISCHARGE— AIR DRIVE 100 PSI (7 BAR)																														
OUTPUT PRESSURE		AZ-1-10		AZ-1-12		AZ-1-19		AZ-1-26		AZ-1-30		AZ-1-36		AZ-1-58		AZ-1-70		AZ-1-86		AZ-1-107		AZ-1-140		AZ-1-187		AZ-1-275		AZ-1-425		
PSI	BAR	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min	ins ³ min	Ltr min			
0	0	1409	29.1	1116	18.3	708	11.6	537	8.8	445	7.3	366	6.0	217	3.5	181	3.0	185	3.0	120	2.0	92	1.5	70	1.1	44	0.72	26	0.42	
250	17	380	14.8	695	11.4	549	9.0																							
500	34	702	12.0	622	10.2	476	7.8	357	5.8	311	5.1	268	4.4																	
750	52	537	8.8	450	7.4	403	6.6																							
1000	69	0	0	307	5.0	354	5.8	288	4.7	268	4.4	232	3.8	153	2.5	128	2.1	100	1.6	78	1.3									
1250	86			0	0	395	5.0																							
1500	103					256	4.2	238	3.9	223	3.6	204	3.3																	
1750	121					153	2.5	210	3.4	204	3.3																			
2000	138					0	0	183	3.0	189	3.1	183	3.0	137	2.2	113	1.8	90	1.5	74	1.2	61	1.0							
2500	172							74	1.2	143	2.3	156	2.5											46	0.7					
3000	207							0	0	31	0.5	119	1.9	113	1.8	90	1.6	80	1.4	71	1.1					29	0.47			
3500	241									0	0	73	1.2	104	1.7															
4000	276									0	0	95	1.5	89	1.5	73	1.2	62	1.0	56	0.9									
4500	310											79	1.3	79	1.3	70	1.1													
5000	345											62	1.0	76	1.2	65	1.0							41	0.7			16	0.26	
6000	414											0	0	57	0.9	59	0.9	54	0.9	50	0.8					25	0.41			
7000	483													0	0	49	0.8													
8000	552															29	0.5	44	0.7	43	0.7	36	0.6							
9000	620															0	0	38	0.6							24	0.39			
10000	690																	27	0.4	37	0.6	32	0.5					15	0.24	
12500	862																	0	0	29	0.5					21	0.34			
15000	1034																			0	0			24	0.4			13	0.21	
20000	1380																								0	0	18	0.29	12	0.19
25000	1724																										13	0.21	10	0.16
30000	2068																										0	0	8	0.13
42000	2758																												3	0.09
52000	3450																												0	0