



Hydraulic Pneumatic Services Ltd

Trojan Type 'MD' Double Acting Pump Data Sheet



The **DOUBLE ACTING Trojan Type 'MD'** is an efficient, compact and reliable pump for generating hydraulic power from a standard compressed air line.

The pump utilises a low pressure air input of 1.5 – 8 bar to generate output pressures of up to 2,964 bar.

Being **Double Acting** considerably reduces the output pressure pulses which are generated by all reciprocating pumps, and also reduces the severity of the pulses in the suction line as the pump changes direction.

By means of an air pressure regulator the pump can be set to stall and maintain any pressure within the range of the pump, automatic re-start will compensate for any pressure loss.

- Compact
- Lightweight
- Simple operation
- Reliable
- Sturdy construction
- Easily maintained
- Stainless steel wetted parts suitable for oil or water use.
- Will hold a static pressure indefinitely with no power consumption or heat generation.
- ATEX



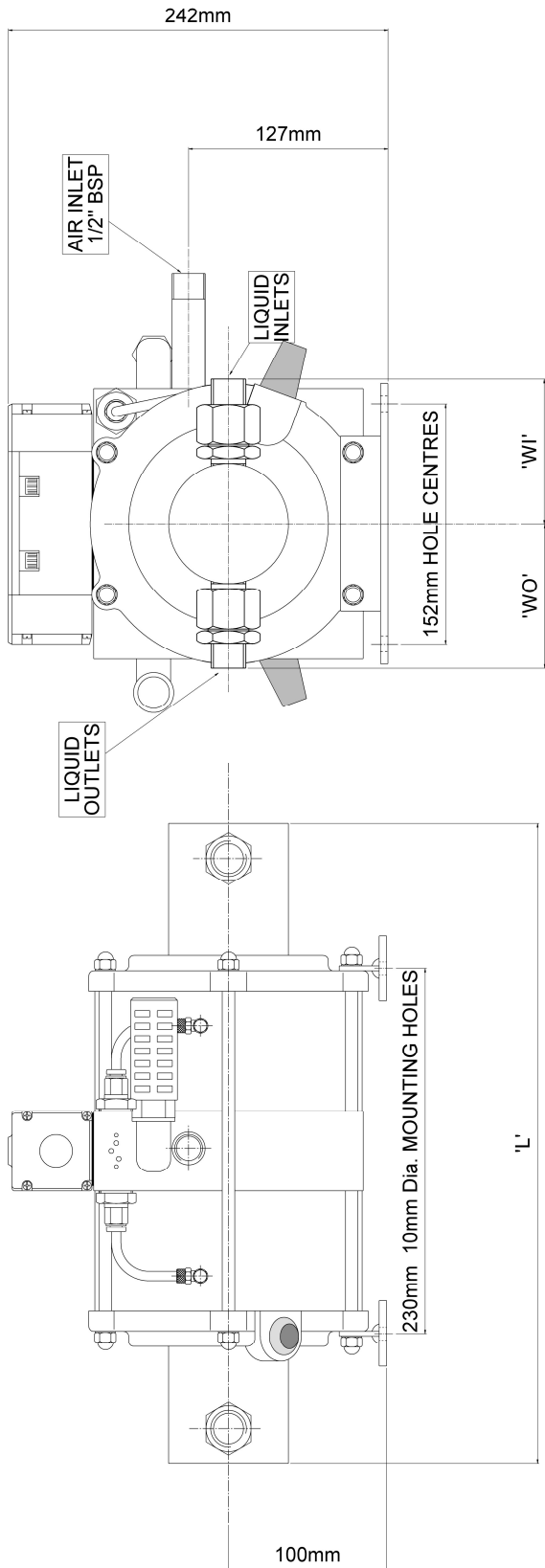
II 2G Ex h IIC T5 Gb
II 2D Ex h IIC T100°C Db

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The **DOUBLE ACTING** Trojan Type 'MD'

PERFORMANCE

RATIO	Output/ Cycle CC	Max. Free Flow l/min	Output Pressure Bar (7 bar air supply)	Output Pressure Bar (8 bar air supply)
4.3:1	390	66	28	32
9.7:1	172	41	64	73
13.5:1	124	27	89	102
17.1	96	19	113	129
27.1	60	13	179	205
37.1	44	10	246	281
51.1	32	6.8	339	387
77.1	20	5	512	585
111.1	14	3.2	738	843
154.1	10	2.7	1024	1170
249.1	6	1.5	1655	1892
390.1	4	1.0	2593	2964

APPROXIMATE DIMENSIONS

RATIO	'L' mm	'W' mm	'WO' mm	LIQUID INLETS	LIQUID OUTLETS
4.3:1	493	120	116	1" BSP Male	3/4" BSP Male
9.7:1	467	114	110	1" BSP Male	3/4" BSP Male
13.5:1	423	114	110	1" BSP Male	3/4" BSP Male
17.1	415	110	92	3/4" BSP Male	1/2" BSP Male
27.1	400	110	92	3/4" BSP Male	1/2" BSP Male
37.1	400	110	92	3/4" BSP Male	1/2" BSP Male
51.1	400	92	92	1/2" BSP Male	1/2" BSP Male
77.1	400	92	92	1/2" BSP Male	1/2" BSP Male
111.1	400	92	92	1/2" BSP Male	1/2" BSP Male
154.1	400	92	92	1/2" BSP Male	1/2" BSP Male
249.1	400	92	104	1/2" BSP Male	3/4" UNF Fem.
390.1	400	92	104	1/2" BSP Male	3/4" UNF Fem.

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED

DESIGNER: JAC DATE: 24/05/2011
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