

ENERPAC®

YPA3174D



Instruction Manual

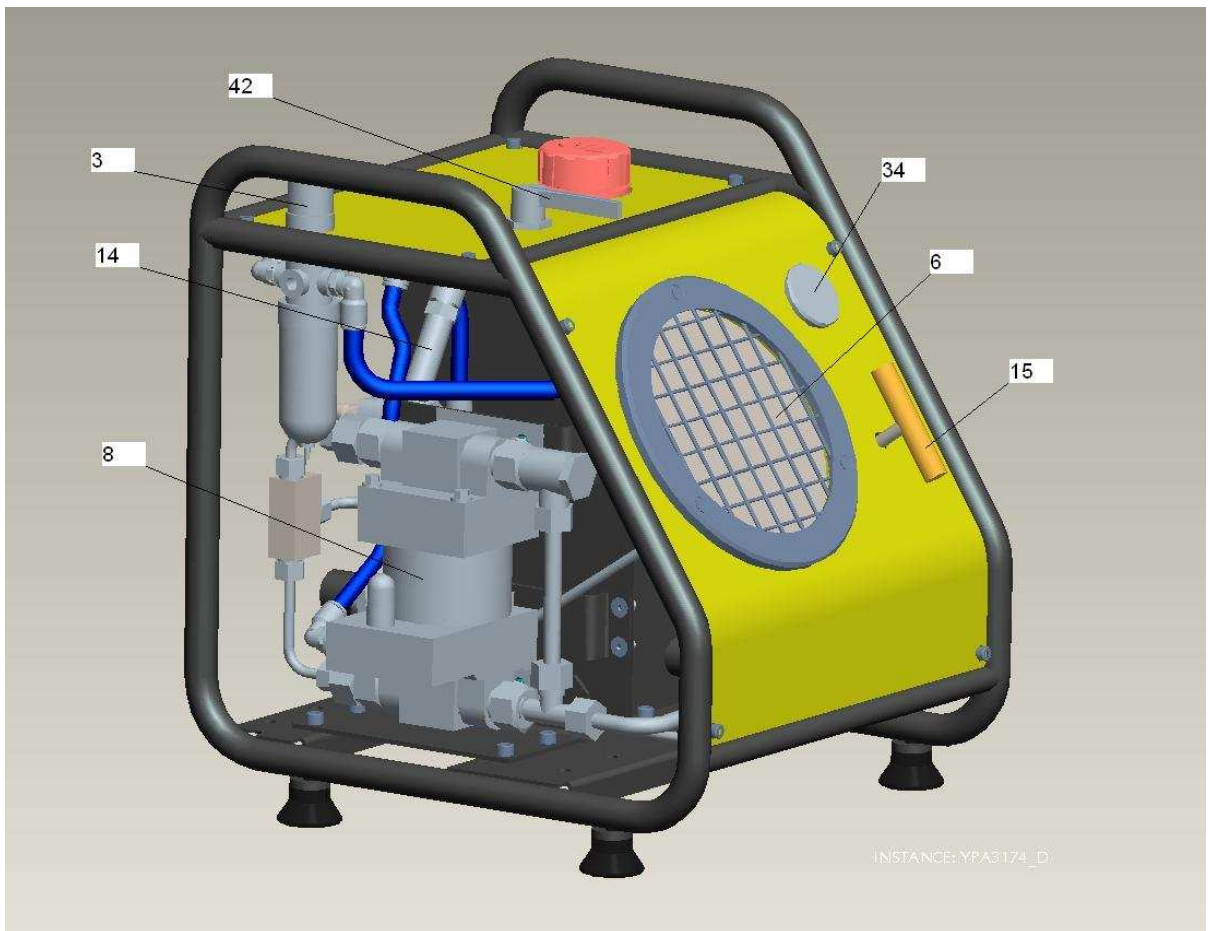


Figure 1

Parts list:

- 3 AIR PRESSURE FILTER REGULATOR UNIT**
- 6 GLYCERINE FILLED GAUGE D160 mm SCALE 0-2000 bar**
- 8 MAXIMATOR PUMP UNIT M-189D**
- 11 OUTPUT OIL PORT**
- 14 SAFETY VALVE**
- 15 SHUT OFF VALVE**
- 21 OIL RESERVOIR CAPACITY 10 L**
- 25 INPUT AIR PORT 1/2 BSP**
- 34 AIR GAUGE**
- 42 AIR BALL VALVE**

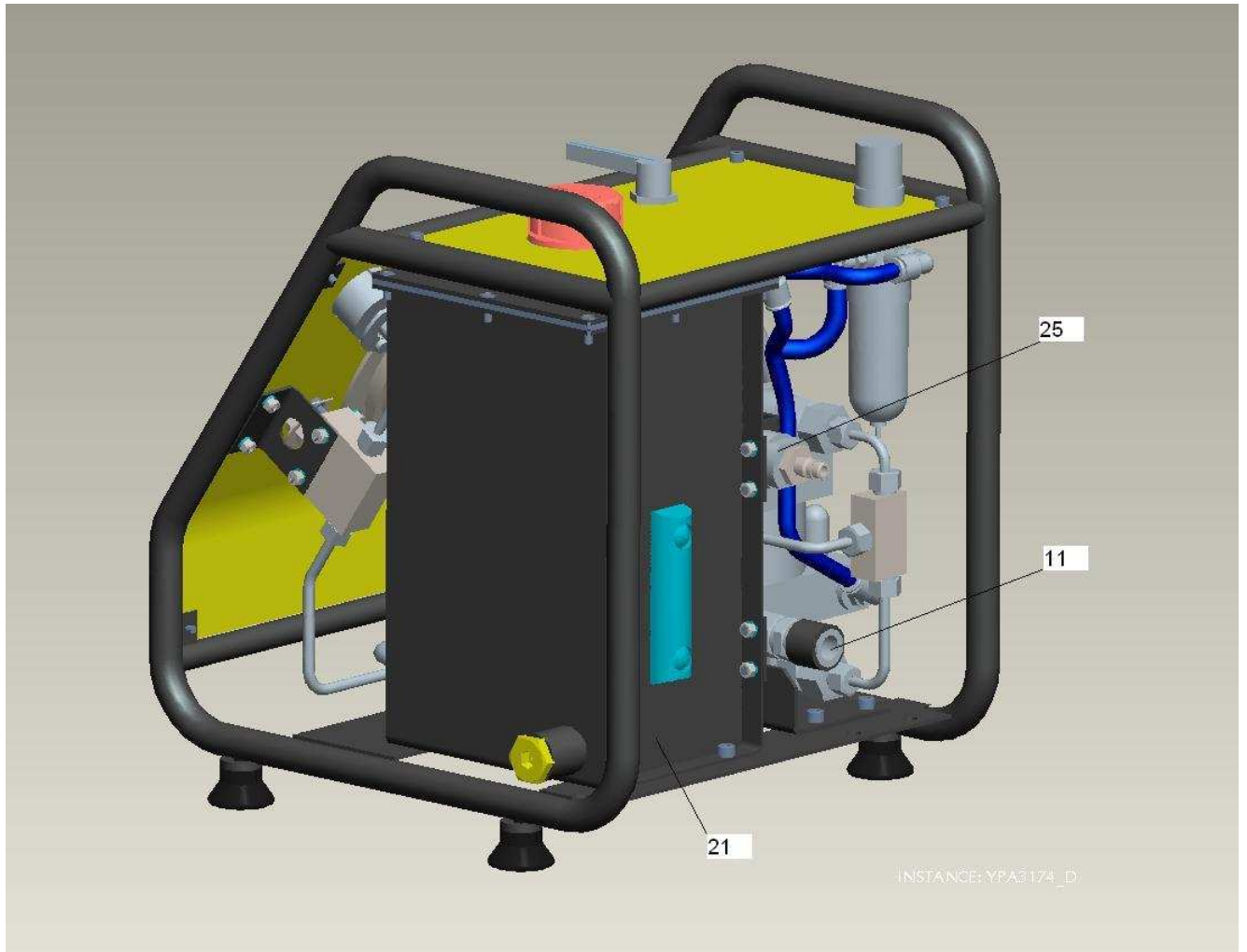


Figure 2

1.0 SAFETY FIRST !!!

Read all instructions, warnings and cautions carefully. Follow all safety precautions to avoid personal injury or property damage during system operation. Enerpac cannot be responsible for damage or injury resulting from unsafe product use, lack of maintenance or incorrect product and/or system operation. Contact Enerpac when in doubt as to the safety precautions and operations.

ⓘ IMPORTANT: Before using the product it's important for the operator to read the instructions and to understand the precautions, the warnings, and to apply the local codes of security.

2.0 DESCRIPTION OF THE PRODUCT :

The "ENERPAC" air driven hydraulic pumps model **YPA3174D** , are manual pumps realised for single acting tensioners, the components are described in fig. 1 and 2, while the characteristics of the pump M189D are indicated in the graph page 7. In fig.2 we find the air input for alimentation of the pump (pos.25), made of a fitting with ½ BSP thread to be equipped with an air fitting, not include, compatible with the equipment where the pump will be used. The oil output(pos. 11) is a female rapid coupler

3.0 INSTALLATION

3.1 GENERAL: The Enerpac pumps are supplied ready to use, complete with hydraulic oil. The safety valve is preset as the relief valves.

These values can be changed only by qualified personal.

3.2 PRELIMINARY OPERATIONS:

- 1 Position the pump near the work area, assure that the hoses and the pendant can reach easily the wrench.
- 2 **Check that the alimentation of the compressed air is able to give a minimum of 300 NI/min at 6.5 bar**

- 3 Check the pressure setting as described at point 3.3
- 4 Check that the couplers are well connected..

ⓘ ATTENTION: Always mount the protection caps on the couplers when not used. Do not pressurise flexible hoses without connecting the couplers.

3.3 REGULATION PRESSURE:

Verify what is the working pressure needed for the tensioning

Connect the alimentation hose to the fitting for air alimentation pos. 25

Connect the flexible oil hose at the output of the pump (pos. 11) leaving the other hose end with the coupler free(the hose must be able to be pressurized)

ⓘ ATTENTION: avoid that the hose free end, during the pressure regulation is pointing towards persons or animals; an eventual break of the coupler could eject metal parts which could be harmful.

Lift and turn counterclockwise the air tap on the air regulator(pos.3) until it is completely open

Shut the the relief valve(pos. 15) turning clockwise.

Open the air valve(pos. 42).

Turn clockwise the air tap (pos.3) slowly until you reach the working pressure of the oil(see the performance graph pag.7) shown on the gauge of the front panel(pos. 6), while trough the air valve it is possible to the air pressure

When the working pressure is reached close the air valve(pos. 42)

Lock the air tap, lowering it(pos.3) and open the relief valve(pos. 15) turning counterclockwise to set the pressure of the circuit to zero

i **ATTENTION:** Please consult the tensioner manual for the correct use.

Note:
do not change the settings of the safety valve

4.0 OPERATIONS :

4-1 TENSIONING :

Verify that the hose has no air in it, if not, go to procedure 6

Verify that the coupler is clean

Attach the hose at the oil output of the pump(pos.11) and to the tensioner which we suppose correctly positioned and ready for the tensioning.

Verify that the coupler is correctly attached
Start the tensioning operation:

- Close the relief valve (pos.15)
- Open the air valve(pos. 42)
- Wait until the final pressure is reached, looking at the gauge(pos.6)
- Tighten the bolts with the correct tensioning procedure.

4.2 LOOSENING:

- Close the air valve(pos.42)
- Open the relief valve(pos.15)

Before disconnecting the hose

5-0 STORAGE

Disconnect hoses both from the pump and from the tensioner

Clean the pump with a soft rag.

Protect the couplers with the dust caps.

Roll up the hose and put them away in a place not near to heat sources.

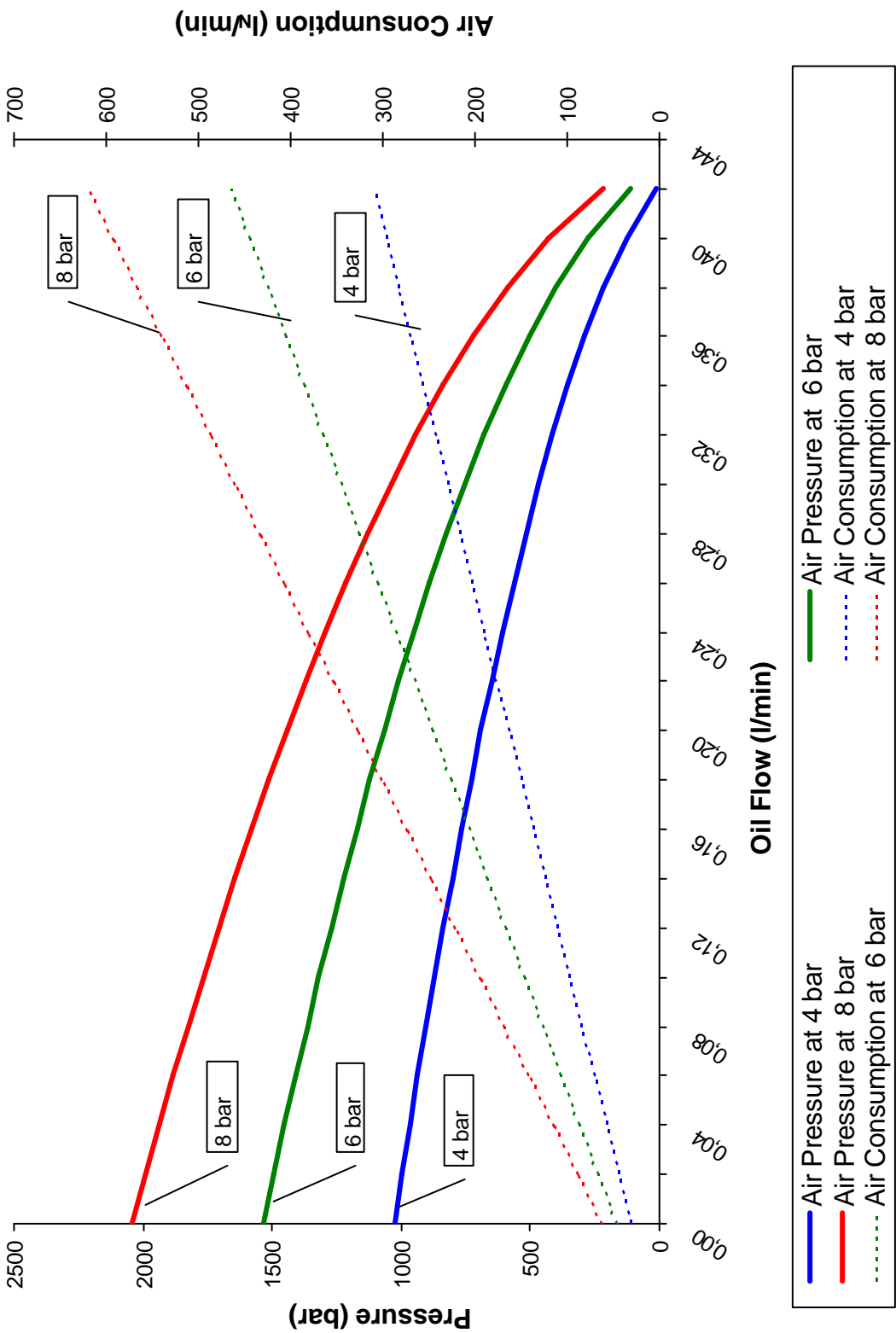
Check that the tensioner does not leak oil, place it in a dry place and not near to heat sources

Respecting this procedure is essential to operate in security and prevents malfunctions.

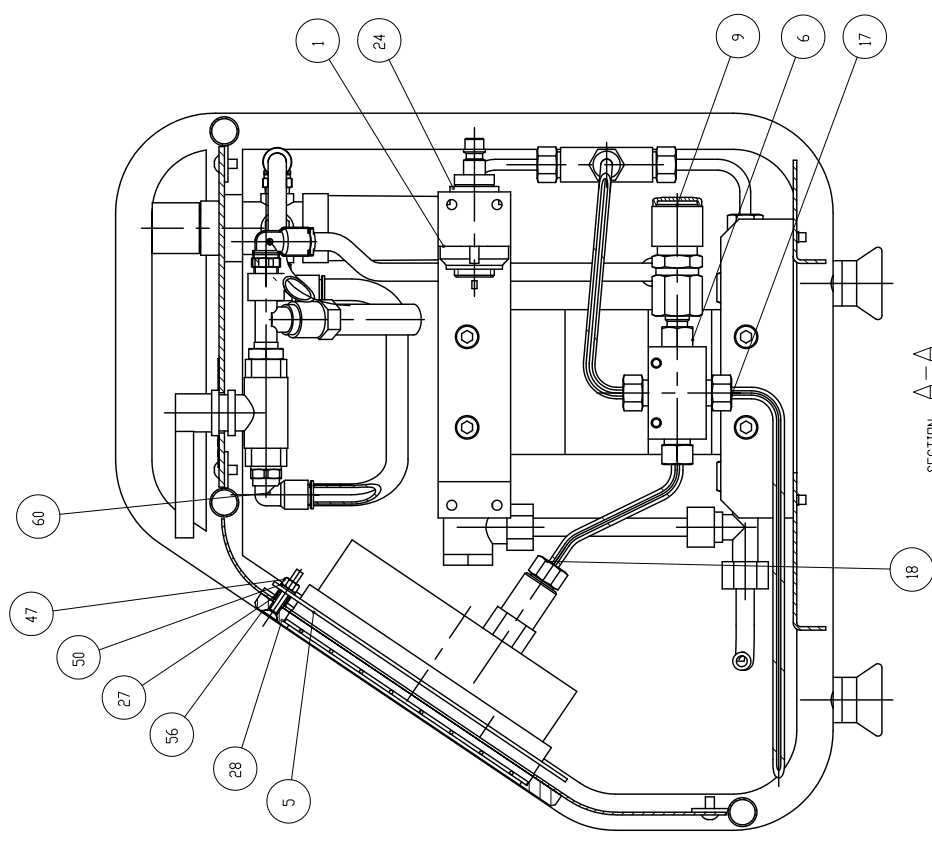
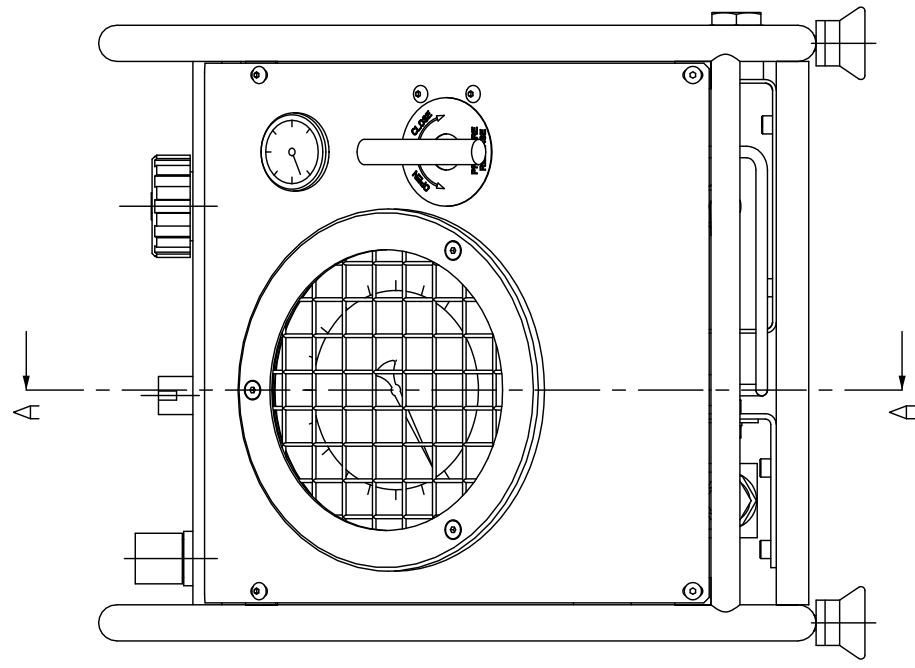
6-0 PROCEDURE FOR AIR BLEEDING HOSES

- **Find a compatible coupler like the one on the hose**
- **Mount the coupler on one end of the hose**
- **Mount the hose on the output port of the pump(pos.11)**
- **Close the relief valve(pos.15)**
- **Open the air valve(pos.42)**
- **Wait to see the oil leaking from the free end of the hose**
- **Close the air valve and dismount the hose**

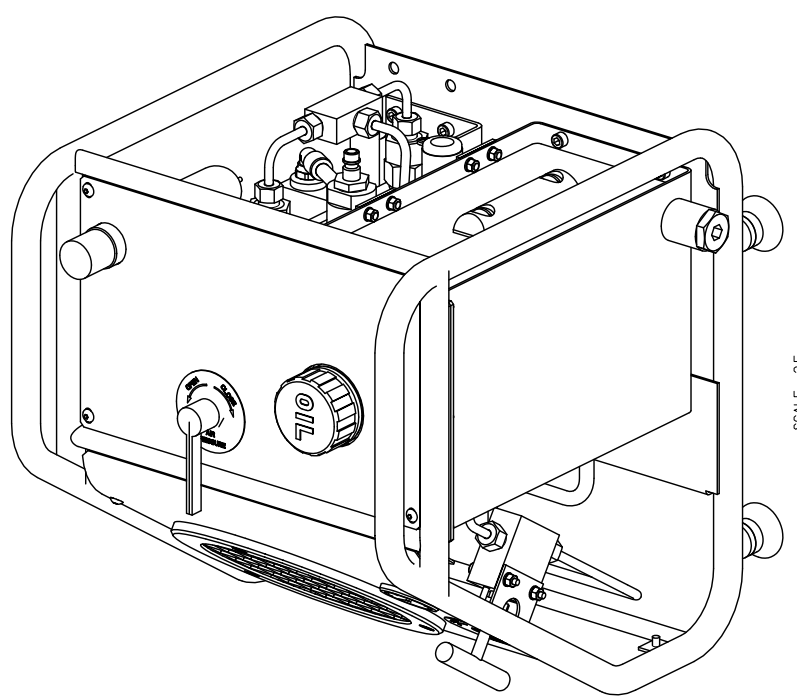
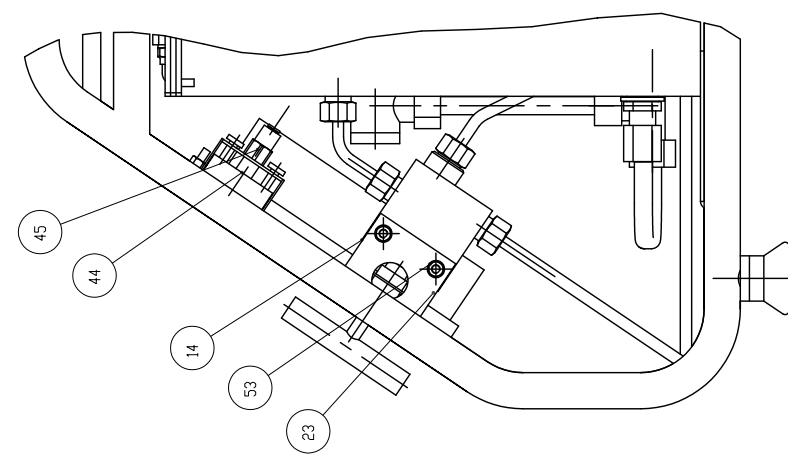
YPA3174D - PERFORMANCE GRAPH



REVISION HISTORY			
REV	EDM #	DATE/INITIAL	
A		02/02/07	
B	AGGIORNATO	02/06/07	



SECTION A-A



SCALE 2:5

METRIC
FIRST ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
DECIMALS .005
XXX ±.005
XXX ±.010
XXX ±.015
ANGLES ±1°
DO NOT SCALE DRAWING

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ENERPAC 720 WEST JAMES STREET COLUMBUS, VT. 05925
TITLE CENTRALINA PER TENSIONATORI BOLL. TENSIONER PUMP
DRAWN BY EF DATE 05/02/07
APPROVALS DATE 02/02/07
CHECKER: DI SILVERIO
ENGINEER: -
SIZE Dwg No. 5486_B
SCALE 1:2 DWG FORMAT 2 of 2
SHEET FILE NO. 5486