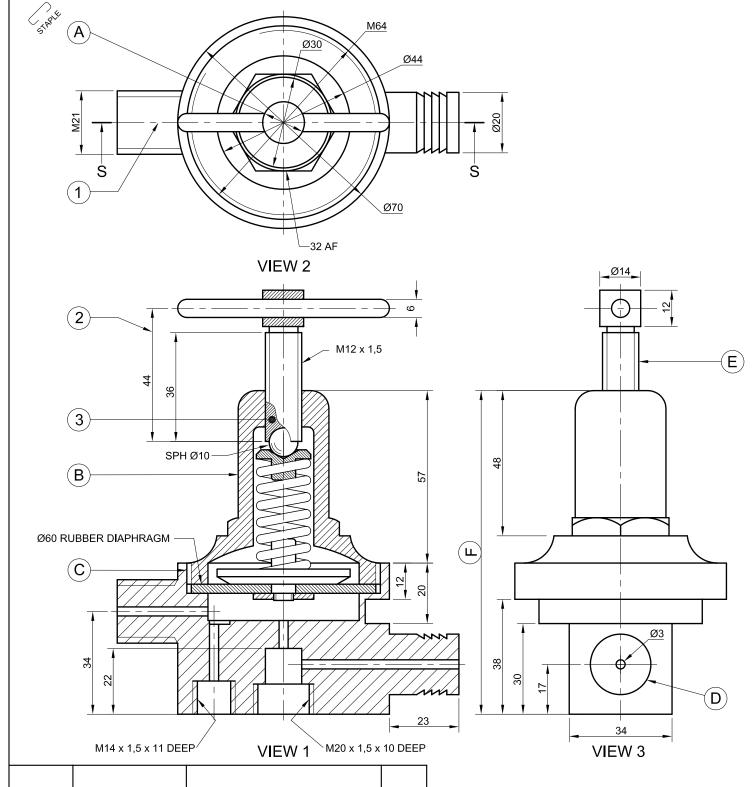
Engineering Graphics and Design/P2 NSC DoE/November 2009



QUESTION 1: ANALYTICAL (MECHANICAL)

Given:

The working drawings of a diaphragm regulator with a title block and a table of questions.

Instructions:

Complete the table below by neatly printing the answers to the questions, which all refer to the accompanying drawings and the title block. [30]

	QUESTIONS		ANSWERS	
1	On what date was the revision completed?			1
2	Who checked the drawing?			1
3	What is the title of the drawing?			1
4	What scale is indicated for the drawing?			1
5	From what material are the metal components of the regulator made?			1
6	How many internal screw threads are there in the assembly?			1
7	How many parts make up the assembly?			1
8	What orthographic projection system has been used?			1
9	What would VIEW 3 be called?			1
10	What would VIEW 2 be called?			1
11	What is the outer diameter of the rubber diaphragm?			1
12	What is the diameter of the sphere?			1
13	Determine the dimensions at: A B C D	Е	F	6
14	What drawing feature is shown at 1?			1
15	What drawing feature is shown at 2?			1
16	What type of section is shown at 3?			1
17	What does the machining symbol ♥ mean?			2
18	In the block below, draw, in neat freehand, the simplified SABS 0111 convention for a spring.			4
19	What is the permissible tolerance on the components of the regulator?			1
20	Determine the upper limit of tolerance for a dimension of 34 mm.			2
	TOTAL			30

DIAPHRAGM REGULATOR

DIAMETER OF INLETS

REVISION DESCRIPTION

EGD ENGINEERING (SA) (PTY) LTD

MARIE

CHANGED BY

188 SCHOEMAN STREET
PRETORIA
0001

Α

Nº

0001
www.egdengineering.co.za

1012 555 2345

DRAWING SYSTEM: AutoCAD 2009

DRAWN: MANDLA

20/03/09

DRAWING №. LFN/304/2009

CHECKED: CARLA

29/03/09

FILE NAME: D5-Y2

APPROVED: ROELF

03/04/09

UNLESS OTHERWISE SPECIFIED ALL
DIMENSIONS ARE IN MILLIMETRES
WITH A TOLERANCE OF 0,25.

HEAT TREATMENT: NORMALISE

UNLESS OTHERWISE SPECIFIED, ALL SURFACE TEXTURE FINISHES ARE

MATERIAL: BRASS

HEAT TREATMENT: NORMALISE

SCALE: 1:2

Convention for the spring

EXAMINATION NUMBER

EXAMINATION NUMBER

12/05/09

DATE