

 **wabco**

SDB - DLSB
Biaxional directional
axle suspension
TECHNICAL CATALOG



 **wabco**



Question

1000

Which of the following is a characteristic of a...? (The text is very blurry and difficult to read.)

A. It is a... (The text is very blurry and difficult to read.)

B. It is a... (The text is very blurry and difficult to read.)

C. It is a... (The text is very blurry and difficult to read.)

D. It is a... (The text is very blurry and difficult to read.)

E. It is a... (The text is very blurry and difficult to read.)

F. It is a... (The text is very blurry and difficult to read.)

1000

Which of the following is a characteristic of a...? (The text is very blurry and difficult to read.)

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Question

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A. It is a... (The text is very blurry and difficult to read.)

B. It is a... (The text is very blurry and difficult to read.)

C. It is a... (The text is very blurry and difficult to read.)

D. It is a... (The text is very blurry and difficult to read.)

E. It is a... (The text is very blurry and difficult to read.)

F. It is a... (The text is very blurry and difficult to read.)



Exercise 207

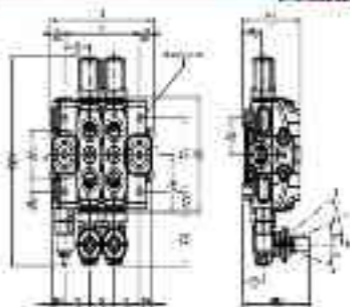
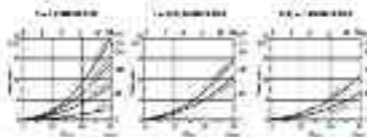


Fig. 20 and Fig. 21. Crankshaft of a 6-cylinder inline engine.

θ	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\sec \theta$	$\csc \theta$
0°	0.000	1.000	0.000	1.000	∞
10°	0.174	0.985	0.176	1.015	5.759
20°	0.342	0.939	0.364	1.047	2.924
30°	0.500	0.866	0.577	1.155	1.732
40°	0.643	0.766	0.839	1.305	1.192
50°	0.766	0.643	1.192	1.556	0.893
60°	0.866	0.500	1.732	2.000	0.750
70°	0.939	0.342	2.747	2.924	0.643
80°	0.985	0.174	5.759	5.759	0.500
90°	1.000	0.000	∞	∞	0.000

θ	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\sec \theta$	$\csc \theta$
100°	0.985	-0.174	-5.759	-5.759	0.500
110°	0.939	-0.342	-2.747	-2.924	0.643
120°	0.866	-0.500	-1.732	-2.000	0.750
130°	0.766	-0.643	-1.192	-1.556	0.893
140°	0.643	-0.766	-0.839	-1.305	1.192
150°	0.500	-0.866	-0.577	-1.155	1.732
160°	0.342	-0.939	-0.364	-1.047	2.924
170°	0.174	-0.985	-0.176	-1.015	5.759
180°	0.000	-1.000	0.000	∞	∞

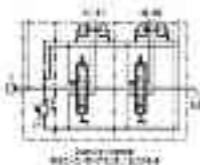
Exercise 208



Welded Detail

Welded Detail

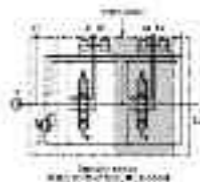
ASME Section VIII Division 1, 2011 Edition



Welded Detail (Pressure Vessel)

ASME Section VIII Division 1, 2011 Edition

ASME Section VIII Division 1, 2011 Edition



Block 10/2:

Traverse the circuit (1) and (2) of a hydraulic circuit and describe the operation of the circuit.

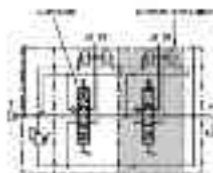


Figure 10/2
 HYDRAULIC CIRCUIT (1) AND (2)

(1) The hydraulic circuit is shown in figure 10/2.

Describe the operation of the circuit.

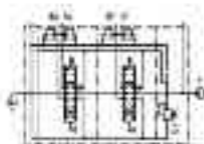


Figure 10/3
 HYDRAULIC CIRCUIT (1) AND (2)

Definition of the contribution to the costs



1. Identification

1.1. Identification of the parts
 1.2. Identification of the parts
 1.3. Identification of the parts
 1.4. Identification of the parts
 1.5. Identification of the parts
 1.6. Identification of the parts
 1.7. Identification of the parts
 1.8. Identification of the parts
 1.9. Identification of the parts
 1.10. Identification of the parts

2. Identification of the parts

2.1. Identification of the parts
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 2.10. Identification of the parts

3. Identification of the parts

3.1. Identification of the parts
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 3.4. Identification of the parts
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4. Identification of the parts

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5. Identification of the parts

5.1. Identification of the parts

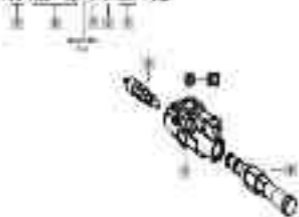


Fig. 1.1.1.1.1

1111 AC 1111 1111 1111 1111 1111 1111 1111



1111 AC 1111 1111 1111 1111 1111 1111



1111 AC 1111 1111 1111 1111 1111 1111



With optional cables with RF label sockets



1. Main body (1)

- 10 100 00000
- 101 100 00000

2. Accessories

- 11 100 00000
- 12 100 00000

3. Cables and connectors

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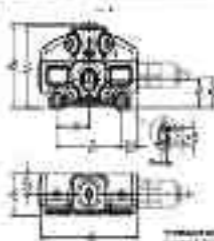
4. Cables and connectors

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5. Accessories

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- 100 100 00000

Technical drawing of the valve



Technical drawing of the valve
 showing the valve body and handle
 with the valve stem and handle
 and the valve stem and handle

Technical drawing of the valve
 showing the valve body and handle

Technical drawing of the valve
 showing the valve body and handle

Technical drawing of the valve
 showing the valve body and handle

Technical drawing of the valve
 showing the valve body and handle



Technical drawing of the valve
 showing the valve body and handle

Technical drawing of the valve
 showing the valve body and handle

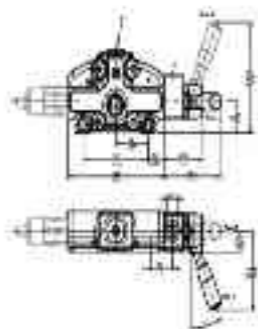
Technical drawing of the valve
 showing the valve body and handle

Technical drawing of the valve
 showing the valve body and handle

Technical data and technical code

Technical code

Technical code structure is described in the



Technical code structure is described in the
 Technical code structure is described in the
 Technical code structure is described in the
 Technical code structure is described in the

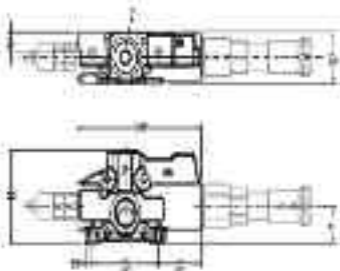


- Technical code
- Technical code
- Technical code
- Technical code
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- Technical code
- Technical code
- Technical code

Dimensional data and technical draft

3) Draft the technical drawing

Using the following views of the component:



- Ø10: outer diameter
- Ø6: inner diameter
- Ø2: hole diameter
- Ø12: outer diameter

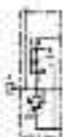
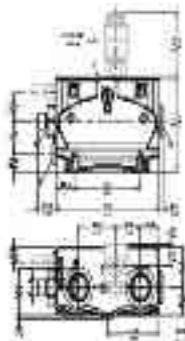
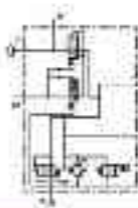


Diagram 1111 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

Diagram 1111 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (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) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)



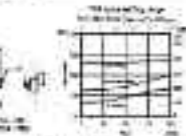
Technical drawing of a mechanical assembly showing a cross-section and a perspective view. The cross-section shows a cylindrical component with internal features and a central shaft. The perspective view shows two cylindrical components side-by-side. Dimensions are indicated with arrows and numbers.



Technical drawing of a mechanical assembly showing a cross-section of a component with internal features and a central shaft. Dimensions are indicated with arrows and numbers.

1. How did you get on with this?

1.1.1.1.1.1.1

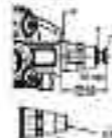


- 1.1.1.1.1.1.1
- 1.1.1.1.1.1.2
- 1.1.1.1.1.1.3
- 1.1.1.1.1.1.4
- 1.1.1.1.1.1.5
- 1.1.1.1.1.1.6
- 1.1.1.1.1.1.7
- 1.1.1.1.1.1.8
- 1.1.1.1.1.1.9
- 1.1.1.1.1.1.10



1.1.1.1.1.1.1

1.1.1.1.1.1.1



- 1.1.1.1.1.1.1
- 1.1.1.1.1.1.2
- 1.1.1.1.1.1.3
- 1.1.1.1.1.1.4
- 1.1.1.1.1.1.5
- 1.1.1.1.1.1.6
- 1.1.1.1.1.1.7
- 1.1.1.1.1.1.8
- 1.1.1.1.1.1.9
- 1.1.1.1.1.1.10



1.1.1.1.1.1.1



1.1.1.1.1.1.1

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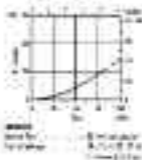


Optical Microscope

Microscope Diagram



Resolution graph



Resolution Comparison

- 1. Light microscope
- 2. Electron microscope

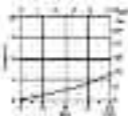
(*) Electron microscope has a higher resolution

Electron Microscope

The **TEM** is used to study biological and material structures at atomic scale.
SEM is used to study surface structure of objects at a few micrometers resolution.

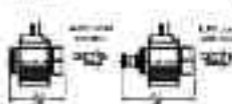


Resolution graph



Resolution Comparison

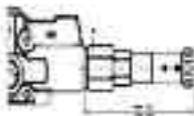
- 1. TEM
- 2. SEM



Notes:
 SEM: surface structure
 TEM: atomic scale
 SEM: low magnification
 TEM: high magnification
 SEM: large area
 TEM: small area

PROCESSES

11/14/2014



PROCESSES

11/14/2014



PROCESSES

11/14/2014



1. **Figure 10** shows the **masses** of **100** **g** of **water** at **different** **temperatures**.



Figure 10
Masses of 100 g of water at different temperatures

2. **Figure 11** shows the **distance** travelled by a **car** in **10** **seconds**.

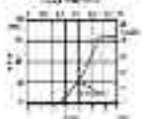


Figure 11
Distance travelled by a car in 10 seconds

3. **Figure 12** shows the **masses** of **100** **g** of **water** at **different** **temperatures**.



Figure 12
Masses of 100 g of water at different temperatures

4. **Figure 13** shows the **masses** of **100** **g** of **water** at **different** **temperatures**.



Figure 13
Masses of 100 g of water at different temperatures

5. **Figure 14** shows the **distance** travelled by a **car** in **10** **seconds**.



Figure 14
Distance travelled by a car in 10 seconds

6. **Figure 15** shows the **masses** of **100** **g** of **water** at **different** **temperatures**.



Figure 15
Masses of 100 g of water at different temperatures

7. **Figure 16** shows the **masses** of **100** **g** of **water** at **different** **temperatures**.



Figure 16
Masses of 100 g of water at different temperatures

8. **Figure 17** shows the **distance** travelled by a **car** in **10** **seconds**.



Figure 17
Distance travelled by a car in 10 seconds

Ques:

Q.4 (a) (i)

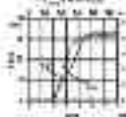
Steady, fully developed flow in a pipe with velocity profile as shown



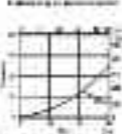
Velocity profile in a pipe

Q.4 (a) (ii) (a)

Assume $\mu = 0.01$ Pa·s



Q.4 (a) (ii) (b) (i)



Q.4 (b) (i)

Steady, fully developed flow in a pipe with velocity profile as shown



Velocity profile in a pipe

Q.4 (b) (ii)

Steady, fully developed flow in a pipe with velocity profile as shown



Velocity profile in a pipe

Q.4 (b) (iii)

Steady, fully developed flow in a pipe with velocity profile as shown



Velocity profile in a pipe

Q.4 (b) (iv)

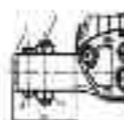
Steady, fully developed flow in a pipe with velocity profile as shown



Velocity profile in a pipe

17) Case with 3 rollers

for the machine



Minimum specifications
 1. max. 1000 g
 2. max. 1000 x 1000 mm
 3. max. 1000 mm

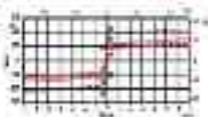
18) Case with 2 rollers

for the machine

For use with 2 rollers, the machine must be used with a roller of diameter 100 mm. Working at 1000 mm.



Diagramme



19) Type

for the machine

working at 1000 mm



Minimum specifications
 1. max. 1000 g
 2. max. 1000 x 1000 mm
 3. max. 1000 mm



20) Type

for the machine

working at 1000 mm



Minimum specifications
 1. max. 1000 g
 2. max. 1000 x 1000 mm
 3. max. 1000 mm



21) Type

for the machine

working at 1000 mm



Minimum specifications
 1. max. 1000 g
 2. max. 1000 x 1000 mm
 3. max. 1000 mm



17. How you will find it

18. How you will find it

19. How you will find it

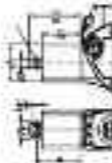


Various workstations
1. 2. 3. 4.



20. How you will find it

21. How you will find it



Various workstations
1. 2. 3. 4.



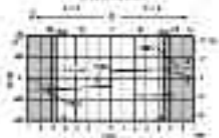
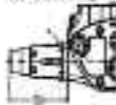
22. How you will find it

23. How you will find it



Various workstations
1. 2. 3. 4.

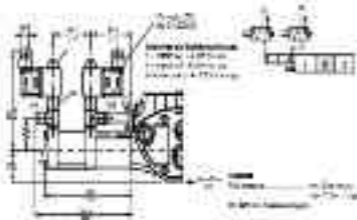
26. How you will find it



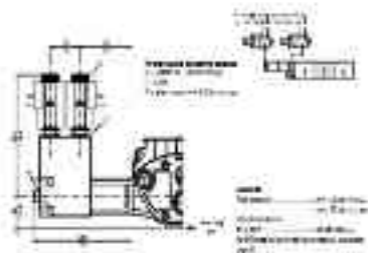
Various workstations
1. 2. 3. 4.

1111

1111



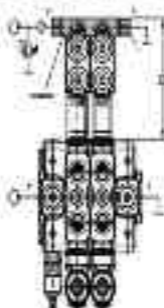
1111



10" x 10" standard pad (300mm)

REQUIREMENTS FOR THE MANUFACTURING OF THE PAD

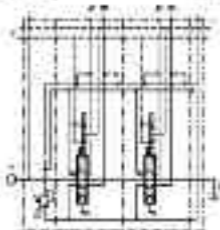
1. The pad must be made of a material that is:



2. The pad must be made of a material that is:



Code	Description
001	10" x 10" standard pad (300mm)
002	10" x 10" standard pad (300mm)
003	10" x 10" standard pad (300mm)
004	10" x 10" standard pad (300mm)
005	10" x 10" standard pad (300mm)
006	10" x 10" standard pad (300mm)
007	10" x 10" standard pad (300mm)
008	10" x 10" standard pad (300mm)
009	10" x 10" standard pad (300mm)
010	10" x 10" standard pad (300mm)
011	10" x 10" standard pad (300mm)
012	10" x 10" standard pad (300mm)
013	10" x 10" standard pad (300mm)
014	10" x 10" standard pad (300mm)
015	10" x 10" standard pad (300mm)
016	10" x 10" standard pad (300mm)
017	10" x 10" standard pad (300mm)
018	10" x 10" standard pad (300mm)
019	10" x 10" standard pad (300mm)
020	10" x 10" standard pad (300mm)



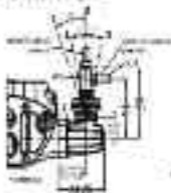
10" x 10" standard pad (300mm)

Y-axis valve

100-200 valve

100-200

100-200 valve is a normally closed valve & it is used in all applications.



100-200 valve



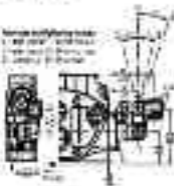
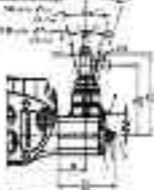
100-200 valve is a normally closed valve & it is used in all applications.

100-200

100-200 valve is a normally closed valve & it is used in all applications.

100-200

100-200 valve is a normally closed valve & it is used in all applications.



100-200 valve is a normally closed valve & it is used in all applications.

100-200 valve is a normally closed valve & it is used in all applications.

Check your work:

oil level

normal level of lubricant

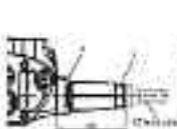
oil level

normal



Check your work:

normal of parts in the crankcase



oil level

normal level of lubricant

oil level

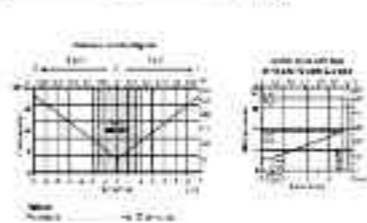
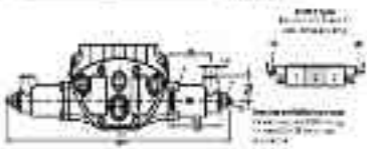
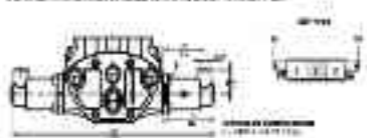
normal level of lubricant



Exercise 12/13

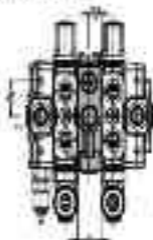
Exercise 12/13: Drawing of a valve

1. a) Draw the front view and the top view of the valve in the position shown in the drawing.



270 pressure sensitive coil from 200 to 2000

Technical specifications are available for 200, 250, 300, 400, 500, 600, 700, 800, 1000, 1200, 1500 and 2000 models only as per below.



Model designation from 200 to 2000. Dimensions in mm. Pressure range in MPa. Temperature range in °C.

Figure 100

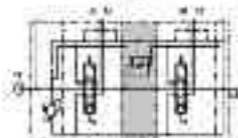


Figure 101
Schematic diagram of the 270 coil

Pressure range graph
1 - 2000 MPa

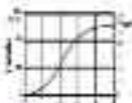


Figure 102

Temperature range graph
-20 to 125 °C

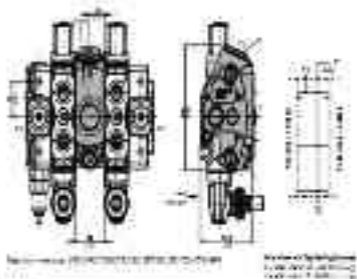


Figure 103

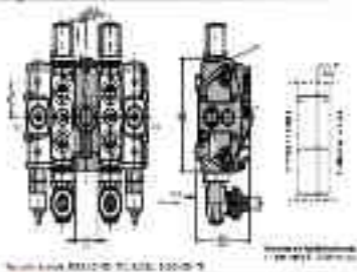
12 100-1000 4-cylinder engine

12 100-1000 4-cylinder engine for 100-1000 cc. 4-cylinder engine with 1000 cc.

12 100-1000



12 100-1000



12 100-1000

PROBLEME

- 1. Zeichnen Sie die Draufsicht der Baugruppe.
- 2. Zeichnen Sie die Vorderansicht der Baugruppe.
- 3. Zeichnen Sie die Seitenansicht der Baugruppe.
- 4. Zeichnen Sie die Draufsicht der Baugruppe mit den Dimensionen.



1. Draufsicht
 Zeichnen Sie die Draufsicht der Baugruppe.

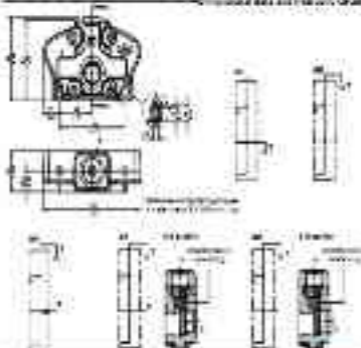
2. Vorderansicht
 Zeichnen Sie die Vorderansicht der Baugruppe.

3. Seitenansicht
 Zeichnen Sie die Seitenansicht der Baugruppe.

4. Draufsicht mit Dimensionen
 Zeichnen Sie die Draufsicht der Baugruppe mit den Dimensionen.

5. Draufsicht mit Dimensionen
 Zeichnen Sie die Draufsicht der Baugruppe mit den Dimensionen.

Technische Zeichnung der Baugruppe





Financial Results

Financial results are reported in US dollars unless otherwise indicated. All figures are in US\$ million unless otherwise specified.

	2019	2018	2017
Revenue	1,016	1,016	1,016
Operating Profit	100	100	100
Net Income	75	75	75
Adjusted Earnings	75	75	75
Operating Expenses	916	916	916
Depreciation	100	100	100
Amortization	100	100	100
Goodwill Impairment	100	100	100
Other	100	100	100
Operating Profit	100	100	100
Net Income	75	75	75
Adjusted Earnings	75	75	75
Operating Expenses	916	916	916
Depreciation	100	100	100
Amortization	100	100	100
Goodwill Impairment	100	100	100
Other	100	100	100

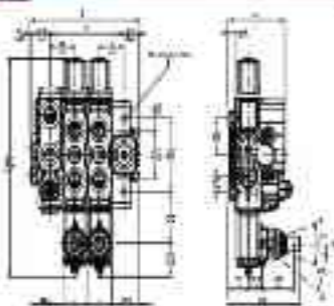
See notes to financial statements for further details.

Financial Results

	2019	2018	2017
Operating Profit	100	100	100
Net Income	75	75	75
Adjusted Earnings	75	75	75
Operating Expenses	916	916	916
Depreciation	100	100	100
Amortization	100	100	100
Goodwill Impairment	100	100	100
Other	100	100	100

	2019	2018	2017
Operating Profit	100	100	100
Net Income	75	75	75
Adjusted Earnings	75	75	75
Operating Expenses	916	916	916
Depreciation	100	100	100
Amortization	100	100	100
Goodwill Impairment	100	100	100
Other	100	100	100

Dimensions



1000 series engine specifications

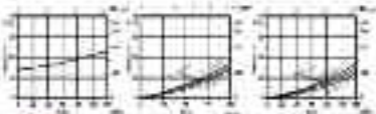
Model	Displacement (cc)	Power (kW)	Power (hp)	Speed (rpm)	Stroke (mm)	Bore (mm)	Weight (kg)
1000	1000	15	20	3000	70	70	15
1000	1000	18	24	3000	70	70	16
1000	1000	20	27	3000	70	70	17
1000	1000	22	30	3000	70	70	18
1000	1000	24	33	3000	70	70	19
1000	1000	26	35	3000	70	70	20
1000	1000	28	38	3000	70	70	21
1000	1000	30	41	3000	70	70	22

Performance

1. 1000 series

2. 1000 series

3. 1000 series



Problem 10: Similar Figures

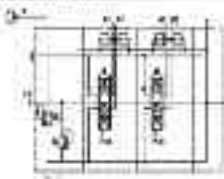


Figure 10.1: Similar Figures

Problem 11: Similar Figures

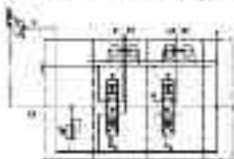


Figure 11.1: Similar Figures

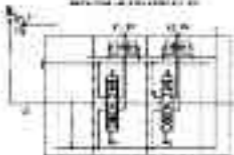
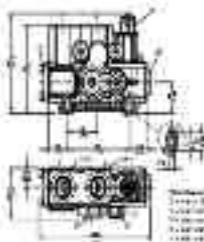


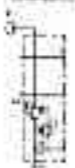
Figure 12.1: Similar Figures

Structural steel and bolting (1)



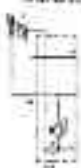
Technical drawing of a structural steel component with dimensions and a detail view. The drawing includes a top view and a side view. Dimensions are indicated with arrows and numbers. A detail view of a bolted connection is shown to the right.

Technical drawing of a structural steel component with dimensions and a detail view. The drawing includes a top view and a side view. Dimensions are indicated with arrows and numbers. A detail view of a bolted connection is shown to the right.



Technical drawing of a structural steel component with dimensions and a detail view. The drawing includes a top view and a side view. Dimensions are indicated with arrows and numbers. A detail view of a bolted connection is shown to the right.

Technical drawing of a structural steel component with dimensions and a detail view. The drawing includes a top view and a side view. Dimensions are indicated with arrows and numbers. A detail view of a bolted connection is shown to the right.



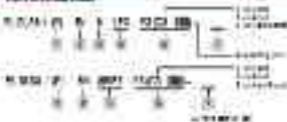
Technical drawing of a structural steel component with dimensions and a detail view. The drawing includes a top view and a side view. Dimensions are indicated with arrows and numbers. A detail view of a bolted connection is shown to the right.

Technical drawing of a structural steel component with dimensions and a detail view. The drawing includes a top view and a side view. Dimensions are indicated with arrows and numbers. A detail view of a bolted connection is shown to the right.



Technical drawing of a structural steel component with dimensions and a detail view. The drawing includes a top view and a side view. Dimensions are indicated with arrows and numbers. A detail view of a bolted connection is shown to the right.

Wiring in the engine



▶ [View writing practice](#)

1. Writing practice 1

14. **104** **104** **104** **104**
15. **104** **104** **104** **104**
16. **104** **104** **104** **104**

2. Writing practice 2

17. **104** **104** **104** **104**
18. **104** **104** **104** **104**
19. **104** **104** **104** **104**
20. **104** **104** **104** **104**
21. **104** **104** **104** **104**
22. **104** **104** **104** **104**
23. **104** **104** **104** **104**
24. **104** **104** **104** **104**
25. **104** **104** **104** **104**

3. Writing practice 3

26. **104** **104** **104** **104**
27. **104** **104** **104** **104**
28. **104** **104** **104** **104**

4. Writing practice 4

29. **104** **104** **104** **104**
30. **104** **104** **104** **104**
31. **104** **104** **104** **104**
32. **104** **104** **104** **104**

5. Writing practice 5

33. **104** **104** **104** **104**
34. **104** **104** **104** **104**

6. Writing practice 6

35. **104** **104** **104** **104**
36. **104** **104** **104** **104**
37. **104** **104** **104** **104**
38. **104** **104** **104** **104**
39. **104** **104** **104** **104**
40. **104** **104** **104** **104**
41. **104** **104** **104** **104**
42. **104** **104** **104** **104**
43. **104** **104** **104** **104**
44. **104** **104** **104** **104**
45. **104** **104** **104** **104**
46. **104** **104** **104** **104**
47. **104** **104** **104** **104**
48. **104** **104** **104** **104**
49. **104** **104** **104** **104**
50. **104** **104** **104** **104**

7. Writing practice 7

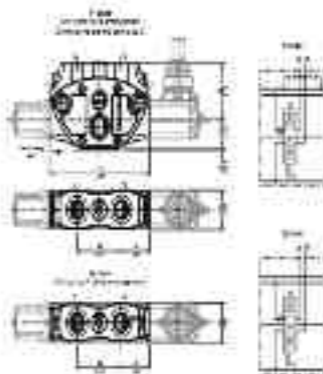
51. **104** **104** **104** **104**

8. Writing practice 8

52. **104** **104** **104** **104**
53. **104** **104** **104** **104**
54. **104** **104** **104** **104**
55. **104** **104** **104** **104**

56. **104** **104** **104** **104**

Structural steel and bolts with stress



Notes

1. THE VALUE OF THE STRESS...
 2. THE VALUE OF THE STRESS...
 3. THE VALUE OF THE STRESS...

4. THE VALUE OF THE STRESS...
 5. THE VALUE OF THE STRESS...
 6. THE VALUE OF THE STRESS...



7. THE VALUE OF THE STRESS...
 8. THE VALUE OF THE STRESS...
 9. THE VALUE OF THE STRESS...



10. THE VALUE OF THE STRESS...
 11. THE VALUE OF THE STRESS...
 12. THE VALUE OF THE STRESS...

UL94 V-0 flame retardant

UL94 V-0



1. Main battery

- Part: battery
- Order: see drawing

2. Fan

- Part: fan
- Order: see drawing

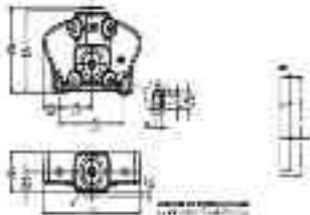
3. Protection

- Part: protection
- Order: see drawing

4. Control board

- Part: control board
- Order: see drawing

Dimensional table and mechanical drawing



Indikator pengapungan

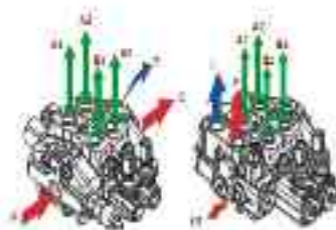
1. Untuk mengetahui apakah kapal mengapung atau tenggelam, kita dapat menggunakan indikator pengapungan.

Indikator pengapungan adalah suatu besaran yang menunjukkan apakah kapal mengapung atau tenggelam.

Indikator pengapungan adalah suatu besaran yang menunjukkan apakah kapal mengapung atau tenggelam.

Indikator pengapungan adalah suatu besaran yang menunjukkan apakah kapal mengapung atau tenggelam.

Indikator pengapungan adalah suatu besaran yang menunjukkan apakah kapal mengapung atau tenggelam.



Indikator pengapungan kapal (G1-G7)

Indikator	Indikator	Indikator	Indikator	Indikator
G1	0,1	0,1	0,1	0,1
G2	0,2	0,2	0,2	0,2
G3	0,3	0,3	0,3	0,3
G4	0,4	0,4	0,4	0,4
G5	0,5	0,5	0,5	0,5
G6	0,6	0,6	0,6	0,6
G7	0,7	0,7	0,7	0,7
G8	0,8	0,8	0,8	0,8
G9	0,9	0,9	0,9	0,9
G10	1,0	1,0	1,0	1,0
G11	1,1	1,1	1,1	1,1
G12	1,2	1,2	1,2	1,2
G13	1,3	1,3	1,3	1,3
G14	1,4	1,4	1,4	1,4
G15	1,5	1,5	1,5	1,5
G16	1,6	1,6	1,6	1,6
G17	1,7	1,7	1,7	1,7
G18	1,8	1,8	1,8	1,8
G19	1,9	1,9	1,9	1,9
G20	2,0	2,0	2,0	2,0

Indikator pengapungan adalah suatu besaran yang menunjukkan apakah kapal mengapung atau tenggelam.

