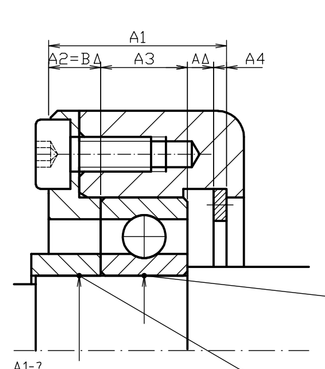



TBΔ=TB1+TB2
TBΔ=0.2+0.2=0.4

A1=?
A2=6±0.2
A3=10-0.12
A4=1.5-0.06
AΔ=0+1

PODMÍNKA REALIZOVATELNOSTI
TAΔ=TA1+TA2+TA3+TA4 > 0
TA1=TAΔ-TA2-TA3-TA4
TA1=1-0.4-0.12-0.06 = 0.38 > 0 OK

AΔmax=A1max-A2min-A3min-A4min
AΔmin=A1min-A2max-A3max-A4max

A1max=AΔmax+A2min+A3min+A4min = 1+5.96+9.88+1.44 = 18.28
A1min=AΔmin+A2max+A3max+A4max = 0+6.4+10+1.5 = 17.90

$A1 = 18^{+0.28}_{-0.10}$

KONTROLA:
TAΔ=TA1+TA2+TA3+TA4 >0
TA1=TAΔ-TA2-TA3-TA4
0.38=1-0.4-0.12-0.06=0.38 >0 OK

ø17H10/h9

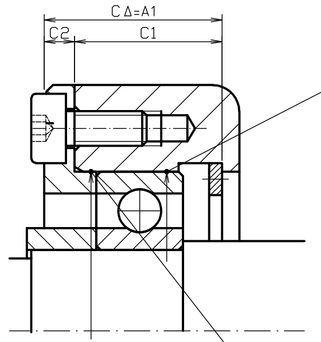
ø17H10 +70/0µm
ø17h9 +0/-43µm

Jde o přechodné uložení
Pmax = es-Ei=0-0=0µm
Vmax = Es-ei=70-(-43)=113µm

ø15H7/k6

ø15H7 +18/0µm
ø15k6 +12/+1µm

Jde o přechodné uložení
Pmax = es-Ei=12-0=12µm
Vmax = Es-ei=18-1=17µm




C1=?
C2=3.5±0.1
$C\Delta = 18^{+0.28}_{-0.10}$

PODMÍNKA REALIZOVATELNOSTI
TCΔ=TC1+TC2 > 0
TC1=TCΔ+TC2
TC1=0.38+0.2 = 0.58 > 0 OK

CΔmax=C1max+C2min
CΔmin=C1min+C2max

C1max=CΔmax-C2min = 18.28-3.40 = 14.88
C1min=CΔmin-C2max = 17.90-3.60 = 14.3

$C1 = 14^{+0.88}_{+0.30}$

KONTROLA:
TCΔ=TC1+TC2 >0
TC1=TCΔ-TC2
0.18=0.38+0.2=0.58 >0 OK

ø35H7/h6

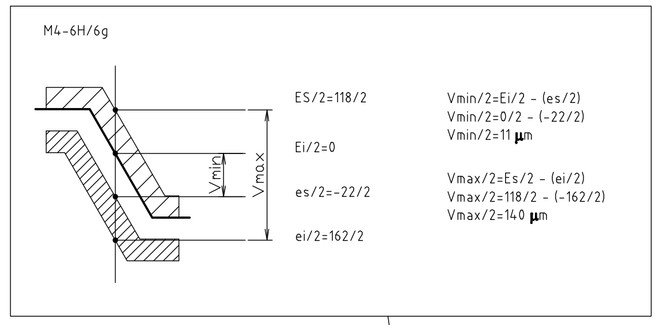
ø35H7 +25/0µm
ø35h6 -0/-25µm

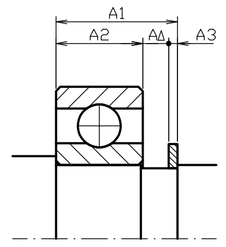
Jde o přechodné uložení
Pmax = es-Ei=0-0=0µm
Vmax = Es-ei=25-(-25)=50µm

ø35H7/h6

ø35H7 +25/0µm
ø35h6 ±8µm

Jde o přechodné uložení
Pmax = es-Ei=8-0=8µm
Vmax = Es-ei=25-(-11)=36µm




A1=?
A2=10-0.12
A3=1-0.06
AΔ=0.20±0.12

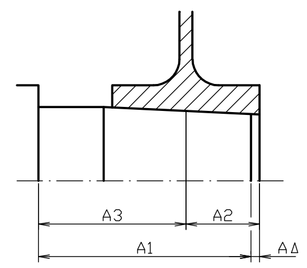
PODMÍNKA REALIZOVATELNOSTI
TAΔ=TA1+TA2+TA3 >0
TA1=TAΔ-TA2-TA3
TA1=0.24-0.12-0.06 = 0.06 > 0 OK

AΔmax=A1max-A2min-A3min
AΔmin=A1min-A2max-A3max

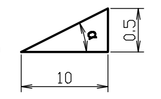
A1max=AΔmax+A2min+A3min = 0.32+9.88+0.94 = 11.14
A1min=AΔmin+A2max+A3max = 0.08+10+1 = 11.08

$A1 = 11^{+0.14}_{+0.08}$

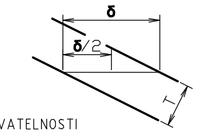
KONTROLA:
TAΔ=TA1+TA2+TA3 >0
TA1=TAΔ-TA2-TA3
0.06=0.24-0.12-0.06=0.06 >0 OK




$tg(\alpha/2)=0.5/10=0.05$
$\rightarrow \alpha/2=2.862=\arcsin(\alpha/2)$
$\rightarrow \sin(\alpha/2)=0.0494$




T-voleno-0.01
$\delta = T/\sin(\alpha/2) = 0.01/0.0499 = 0.2$ mm
$\delta = TA2 = TA3$




A1=?
A2=8.5±0.1
A3=27±0.1
AΔ=1±0.25

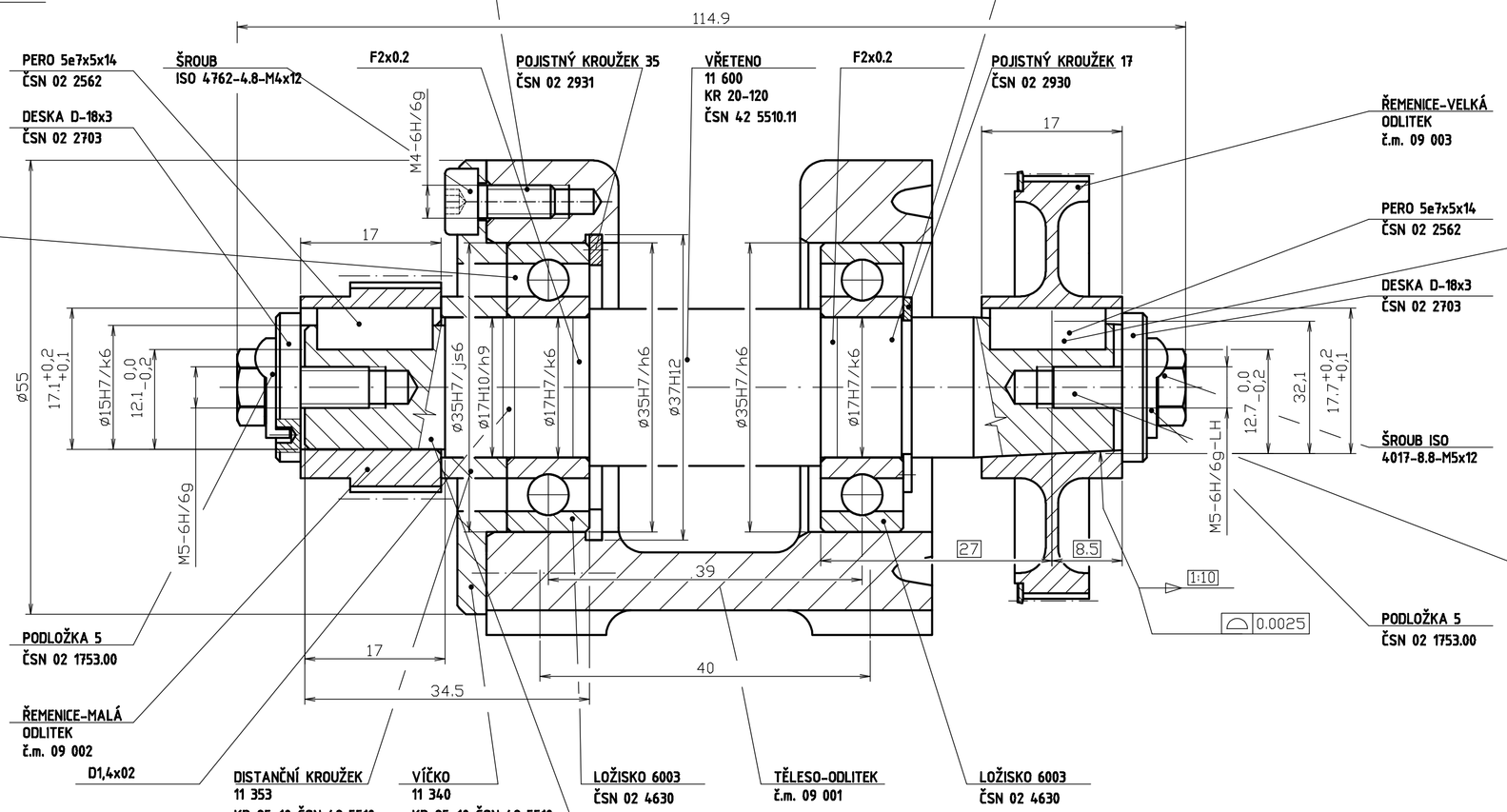
PODMÍNKA REALIZOVATELNOSTI
TAΔ=TA1+TA2+TA3 > 0
TA1=TAΔ-TA2-TA3
TA1=0.5-0.2-0.2 = 0.1 > 0 OK

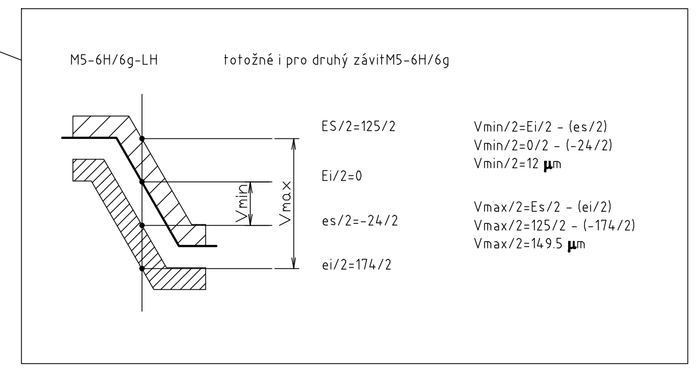
AΔmax=A2max+A3max-A1min
AΔmin=A2min+A3min-A1max

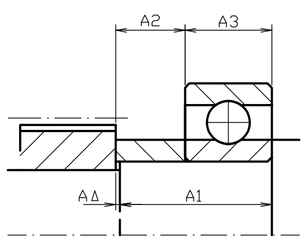
A1max=A2min+A3min-AΔmin = 8.4+26.9-0.75 = 34.55
A1min=A2max+A3max-AΔmin = 8.6+27.1-1.25 = 34.45

$A1 = 34.5^{+0.05}_{-0.05} = 34.5 \pm 0.05$

KONTROLA:
TAΔ=TA1+TA2+TA3 >0
TA1=TAΔ-TA2-TA3
0.1=0.5-0.2-0.2=0.1 >0 OK




A1=?
A2=8-0.2
A3=10-0.12
AΔ=0.5±0.18

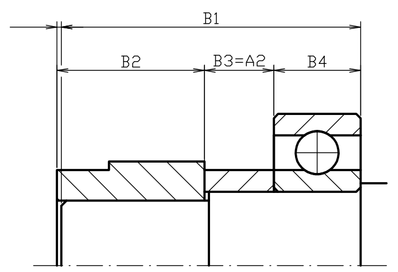
PODMÍNKA REALIZOVATELNOSTI
TAΔ=TA1+TA2+TA3 > 0
TA1=TAΔ-TA2-TA3
TA1=0.36-0.2-0.12 = 0.04 > 0 OK

AΔmax=A2max+A3max-A1min
AΔmin=A2min+A3min-A1max

A1max=A2min+A3min-AΔmin = 7.8+9.88-0.32 = 17.36
A1min=A2max+A3max-AΔmax = 8+10-0.68 = 17.32

$A1 = 17^{+0.36}_{+0.32}$

KONTROLA:
TAΔ=TA1+TA2+TA3 >0
TA1=TAΔ-TA2-TA3
0.04=0.36-0.2-0.12=0.04 >0 OK




B1=?
B2=17±0.2
B3=8-0.2
B4=10-0.12
BΔ=0.5+0.8

PODMÍNKA REALIZOVATELNOSTI
TBΔ=TB1+TB2+TB3+TB4 > 0
TB1=TBΔ-TB2-TB3-TB4
TB1=0.8-0.4-0.2-0.12 = 0.08 > 0 OK

BΔmax=B1min-B2max-B3max-B4max
BΔmin=B1max+B2min-B3min-B4min

B1max=B2min+B3min+B4min-BΔmin = 16.8+7.8+9.88-0.5 = 33.98
B1min=B2max+B3max+B4max-BΔmax = 17.2+8+10-1.3 = 33.9

$B1 = 34^{-0.02}_{-0.10}$

KONTROLA:
TBΔ=TB1+TB2+TB3+TB4 >0
TB1=TBΔ-TB2-TB3-TB4
0.08=0.8-0.12-0.2-0.4=0.08 >0 OK

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MATERIÁL: | | | | | | | | | | | |
| POLOTOVAR: | | | | | | | | | | | |
| PROMÍTÁNÍ: [ISO E] [ISO A] | | | | | | | | | | | |
| TOLEROVÁNÍ ISO 8015: AND NE | | | | | | | | | | | |
| PŘESNOST ČSN ISO 2768: f m c v H K L | | | | | | | | INDEX: | ZMĚNA | DATUM | PODPIS |
| | Podpis | Datum | | | Podpis | Datum | | | | | |
| NAVRHL | FRIDRICHOVSKÝ | 13.5.2009 | STATIK | | | | HMOTNOST 0,9 kg | | | MĚŘÍTKO | 2:1 |
| KRESLIL | FRIDRICHOVSKÝ | 13.5.2009 | NORM. REF. | | | | MIKROFILM | | | Č. SVITKU | |
| SKUPINÁŘ | | | PŘEZK. | | | | SESTAVA 20-09-0083-00 | | | KUSOVNÍK 20-09-0083-K | |
| TECHNOL. | | | SCHVÁLIL | | | | STARÝ V. | | | | |

ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE

FAKULTA STROJNÍ

NÁZEV: NÁVRHOVÝ VÝKRES

TYP:

ČÍSLO VÝKRESU: 20-09-0083

TECHNOL. Č.

LISTŮ: LIST: