

```

??
??
??
s_p
l_pi
min_{x \in \Omega} f(x).
p, l_{pi})
\Omega =
\{s_p \in
R \mid
s_{p,min} <
s_p <
s_{p,max}\}
\{l_{pi} \in
R \mid
l_{pi,min} <
l_{pi} <
l_{pi,max}\}
s_p
l_{pi}
f(q_{inj};x)
q_{inj}
\theta(q_{inj};x)
x
\underline{p}, l_{pi})
\sum_{i=1}^n \left[ \theta(q_{inj}^n;x) -
f(q_{inj}^n;x) \right]^2
q_{inj}^1, q_{inj}^2, \dots, q_{inj}^n
\underline{p}, \underline{p}_{i,min}
15
l_{pi,max} =
35
s_{p,min} =
2000
s_{p,max} =
7000
executable_command('pythonpipesim_run.py')
pressure =
Parameter(kind = '
real', default =
sp, bound =
(2000, 7000), name = '
sp', description = '
StaticPressure')liq_pi =
Parameter(kind = '
real', default =
pi, bound =
(15, 35), name = '
pi', description = '
LiqPI')
param(static_pressure)FD.add_param(liq_pi)
measure(error)
error(parameters, measures) :
return sum(measures["ERROR"])
error)UnconstrainedModel =
Model(modelData =
data, modelStructure =
struct)
TARGET =
0.1
??
p =
4000, 691
l_pi =
24, 954
Custo =
0, 0757.
s_p =
4000
l_pi =
25
eval_points.pdfPontos escolhidos pelo NOMAD.
errors.pdfErros pontos avaliados.
parameter(name =
"MODEL_SEARCH", value =
"SGTELIB")
p =
4001, 389
L_pi =
24, 905
Custo =
0, 09986.
10^64

```