

Summary

December 13, 2023

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0.1 Enzymes: [Aldose-Ketose textless-(0)]

0.2 Flow Solutions, id 0

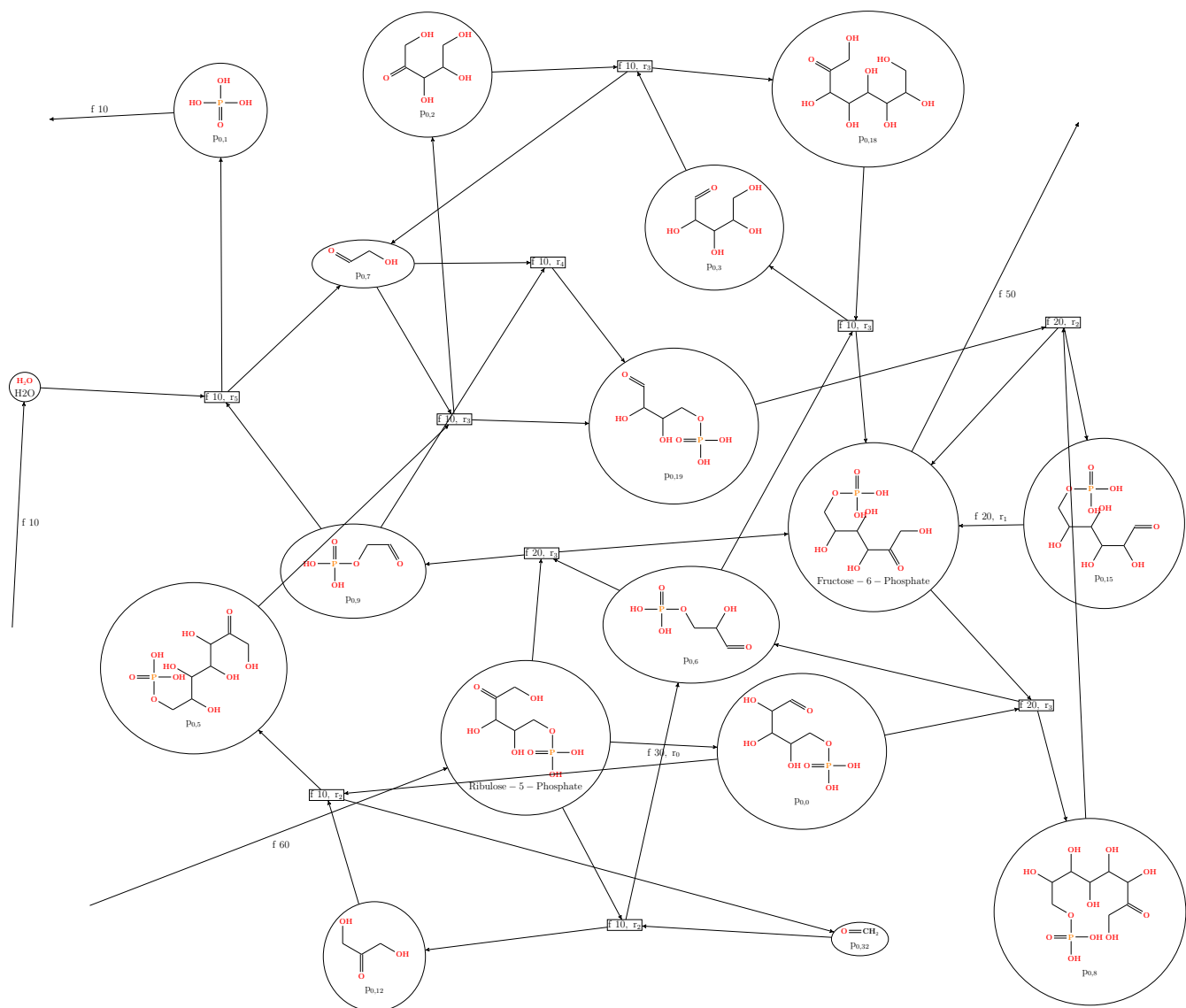
0.2.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/037_dg_0_11100_f_0_0_filt

0.3 Enzymes: [Aldose-Ketose -textgreater(1)]

0.4 Flow Solutions, id 1

0.4.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

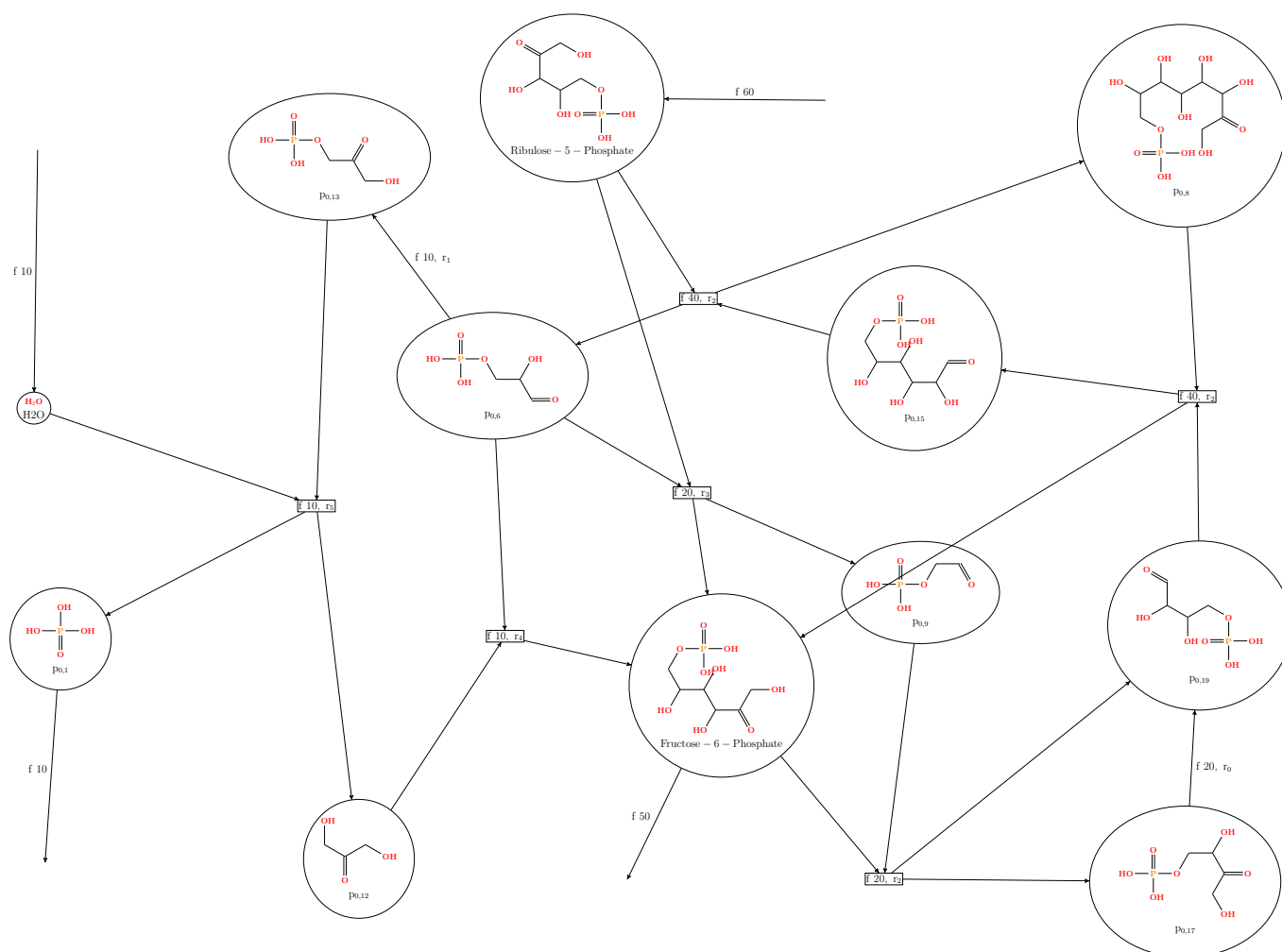
Fructose-6-Phosphate 0 50

H₂O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/045_dg_0_11100_f_1_0_filt

0.5 Enzymes: [Transketolase(2)]

0.6 Flow Solutions, id 2

0.6.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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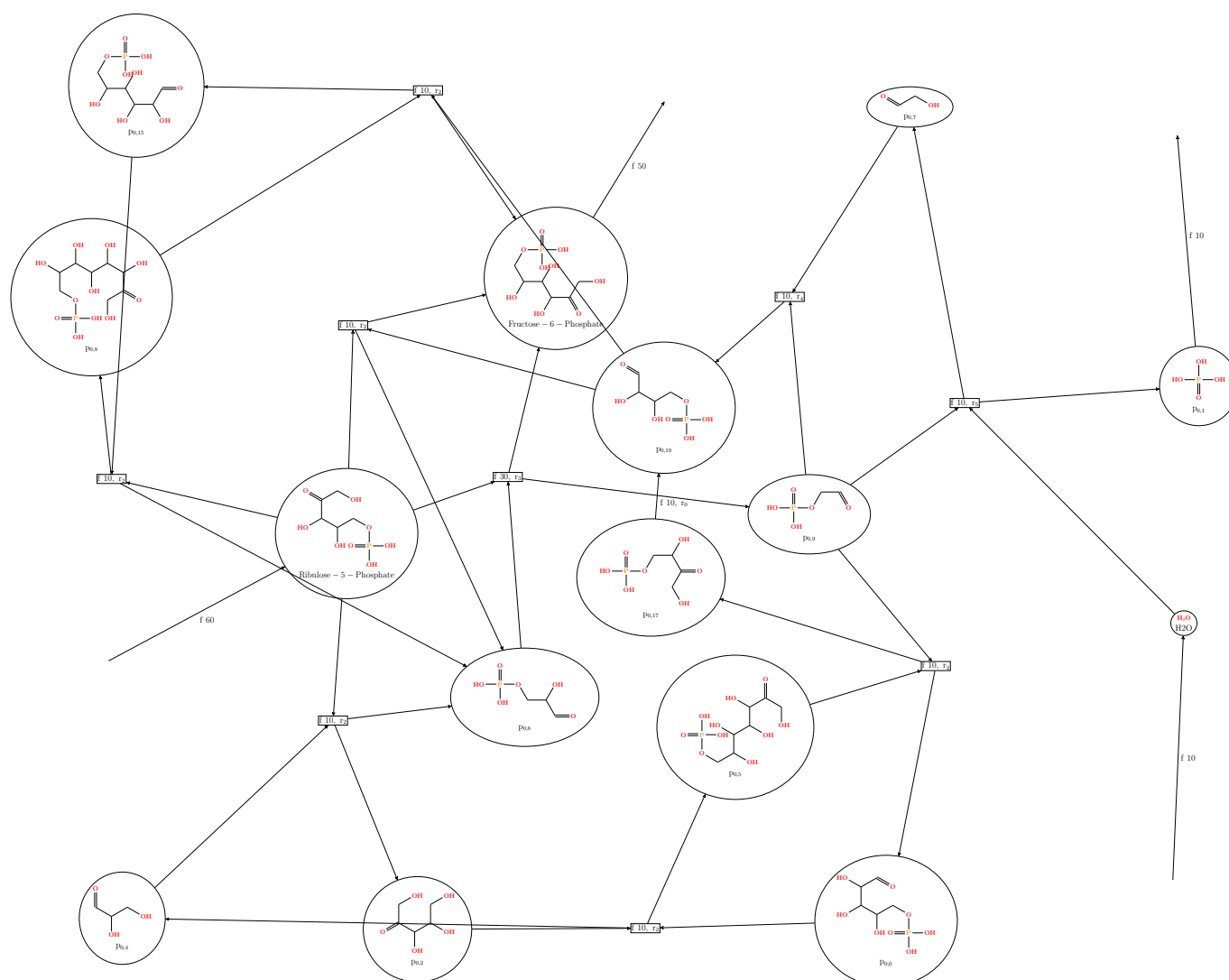
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

$p_{\{0,1\}}$ 0 10

Filtered Graph



File: out/051_dg_0_11100_f_2_0_filt

0.7 Enzymes: [Transaldolase(3)]

0.8 Flow Solutions, id 3

0.8.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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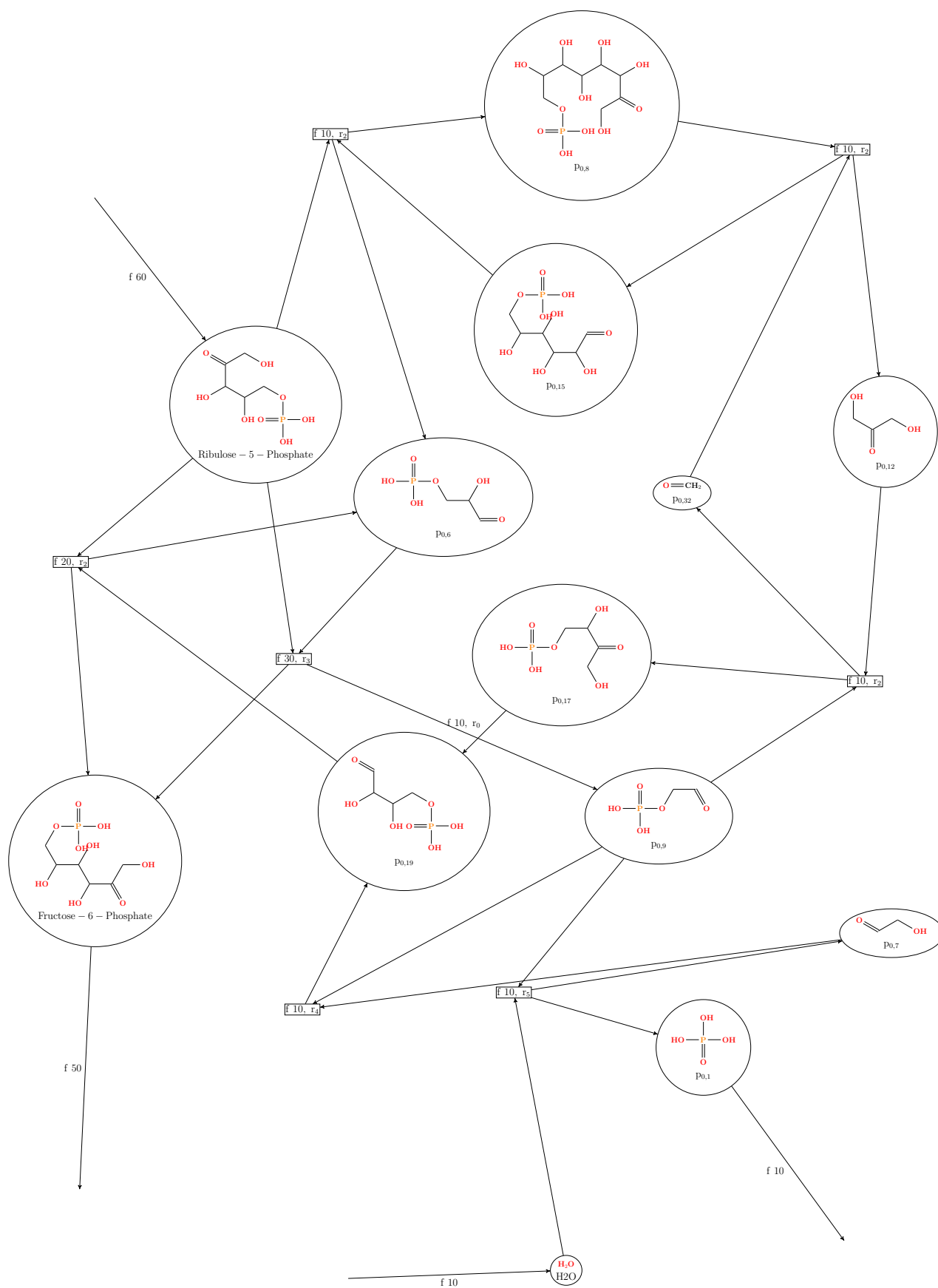
Fructose-6-Phosphate	0	50
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H2O	10	0
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Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/055_dg_0_11100_f_3_0_filt

0.9 Enzymes: [Aldolase(4)]

0.10 Flow Solutions, id 4

0.10.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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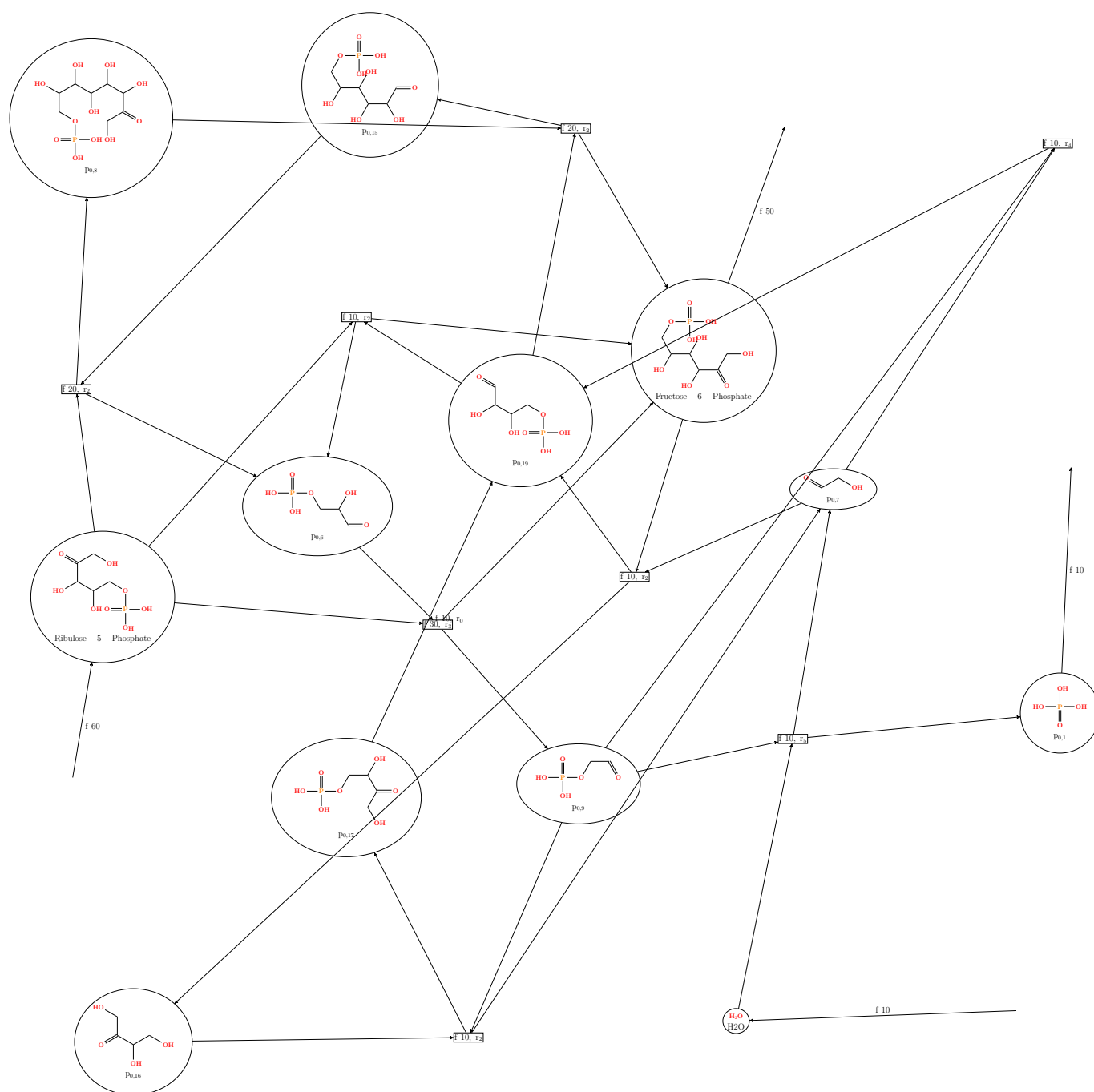
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/061_dg_0_11100_f_4_0_filt

0.11 Enzymes: [Phosphohydrolase(5)]

0.12 Flow Solutions, id 5

0.12.1 Solution 0

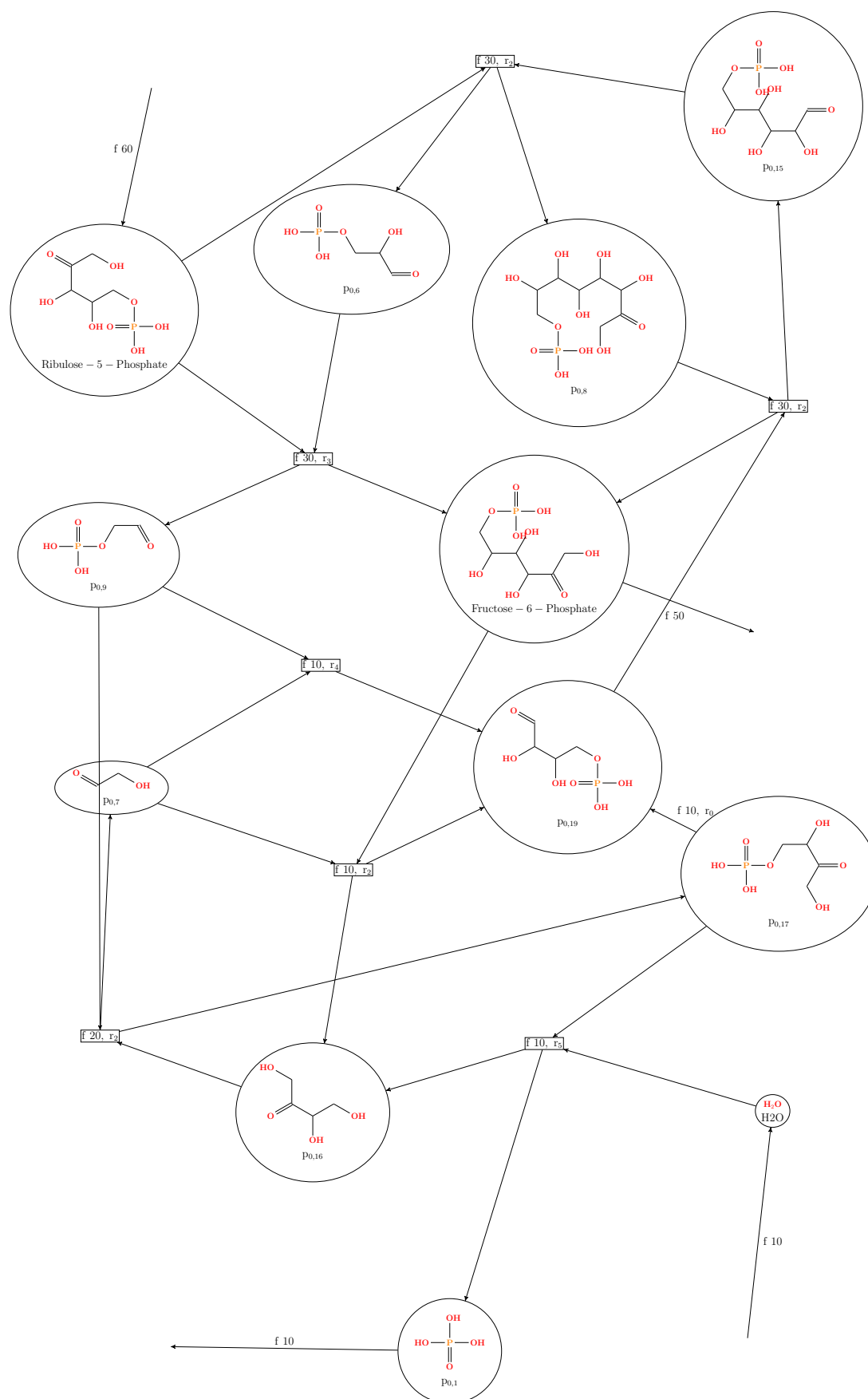
Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/065_dg_0_11100_f_5_0_filt

0.15 Enzymes: [Aldose-Ketose textless-(0), Transketolase(2)]

0.16 Flow Solutions, id 7

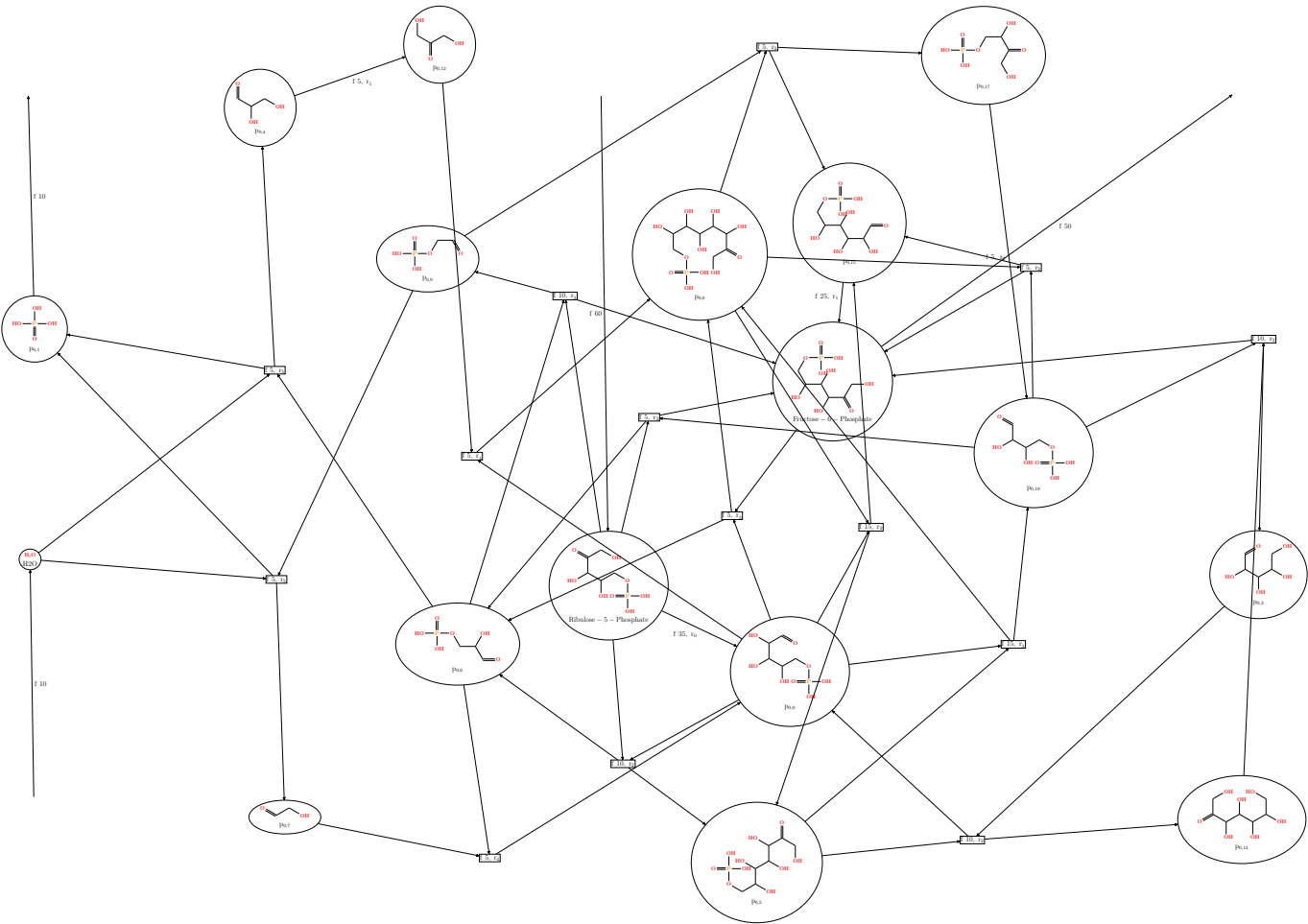
0.16.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/081_dg_0_11100_f_7_0_filt

0.17 Enzymes: [Aldose-Ketose textless-(0), Transaldolase(3)]

0.18 Flow Solutions, id 8

0.18.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

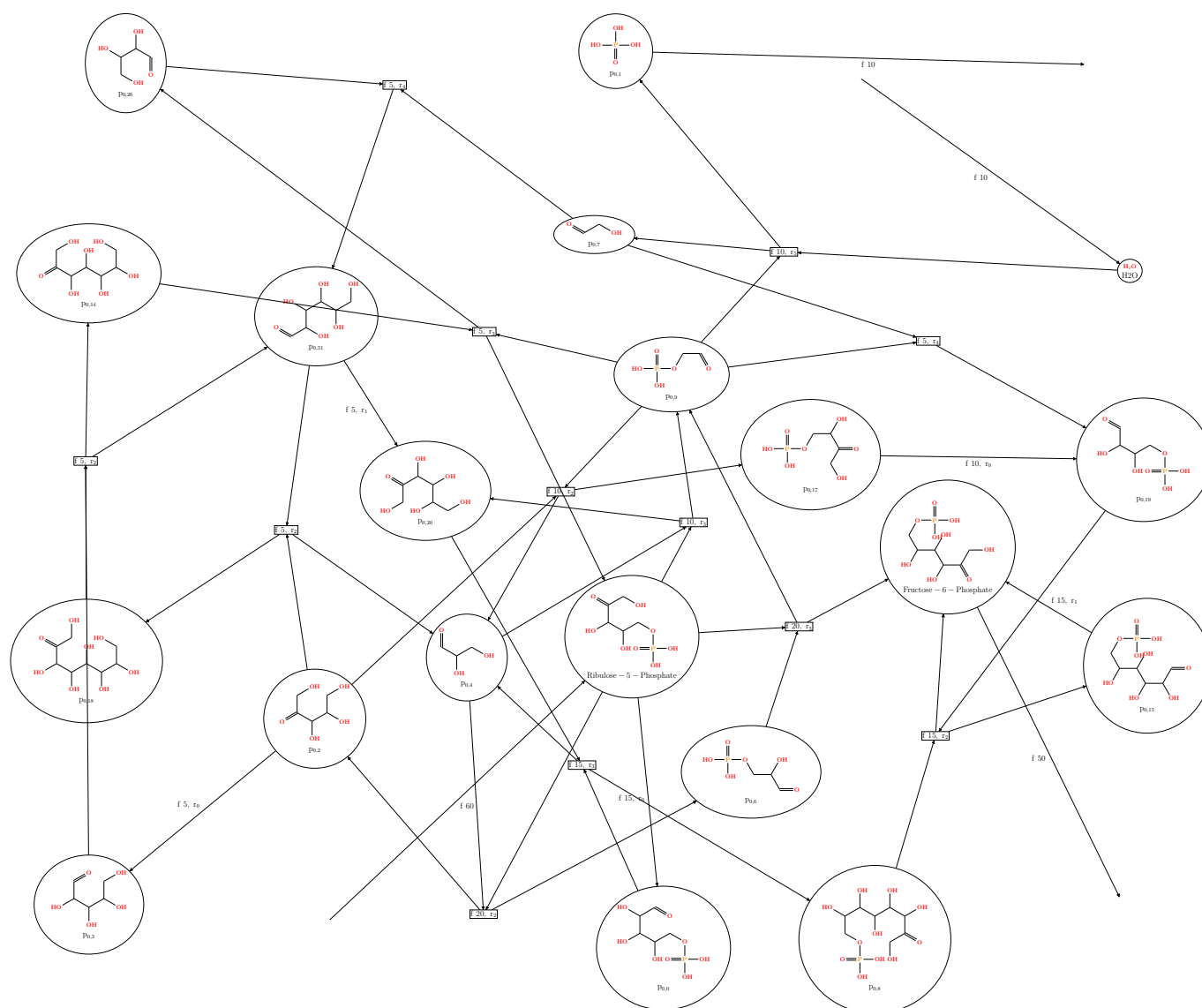
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/087_dg_0_11100_f_8_0_filt

0.19 Enzymes: [Aldose-Ketose textless-(0), Aldolase(4)]

0.20 Flow Solutions, id 9

0.20.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

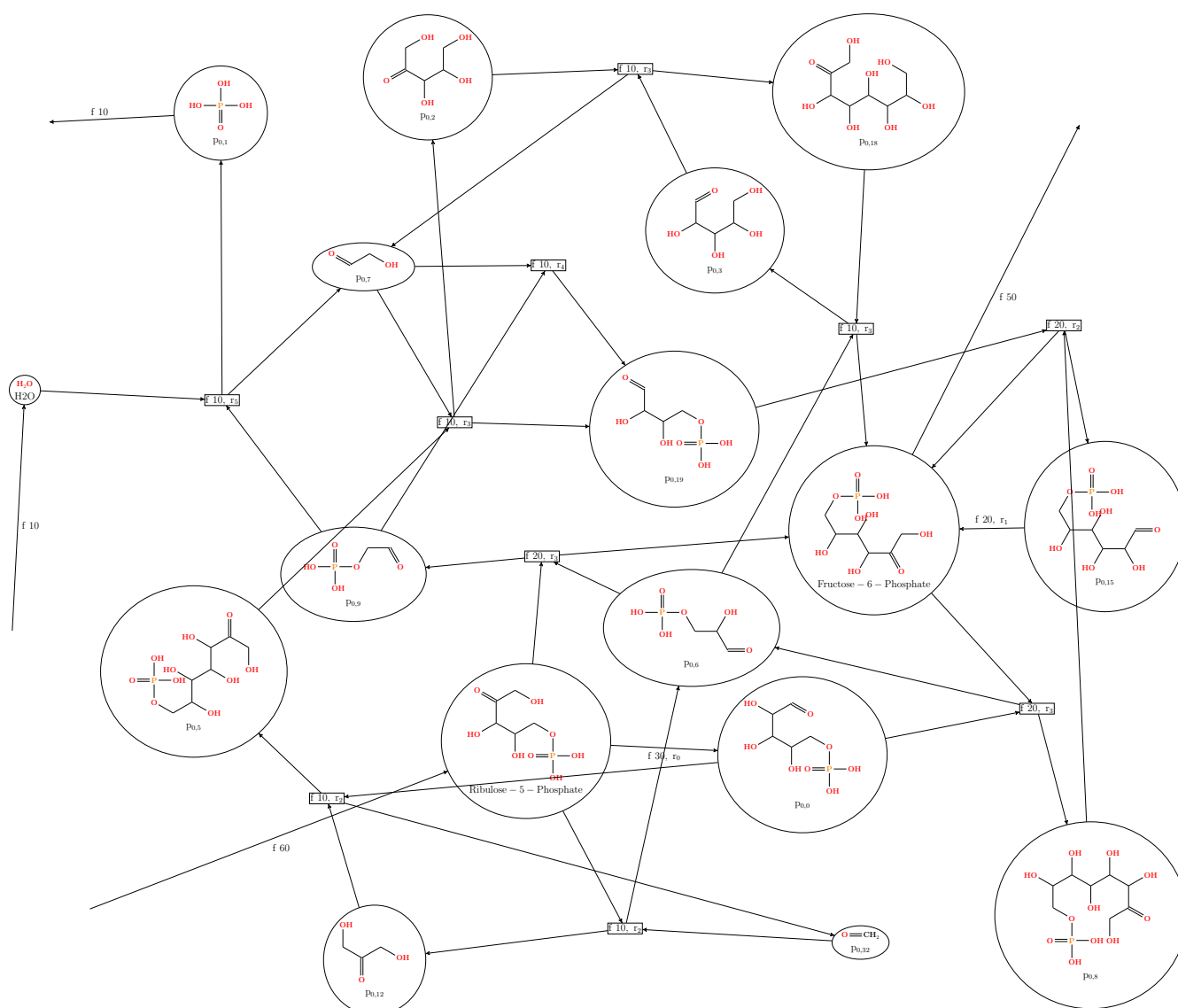
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/091_dg_0_11100_f_9_0_filt

0.21 Enzymes: [Aldose-Ketose textless-(0), Phophohydro-
lase(5)]

0.22 Flow Solutions, id 10

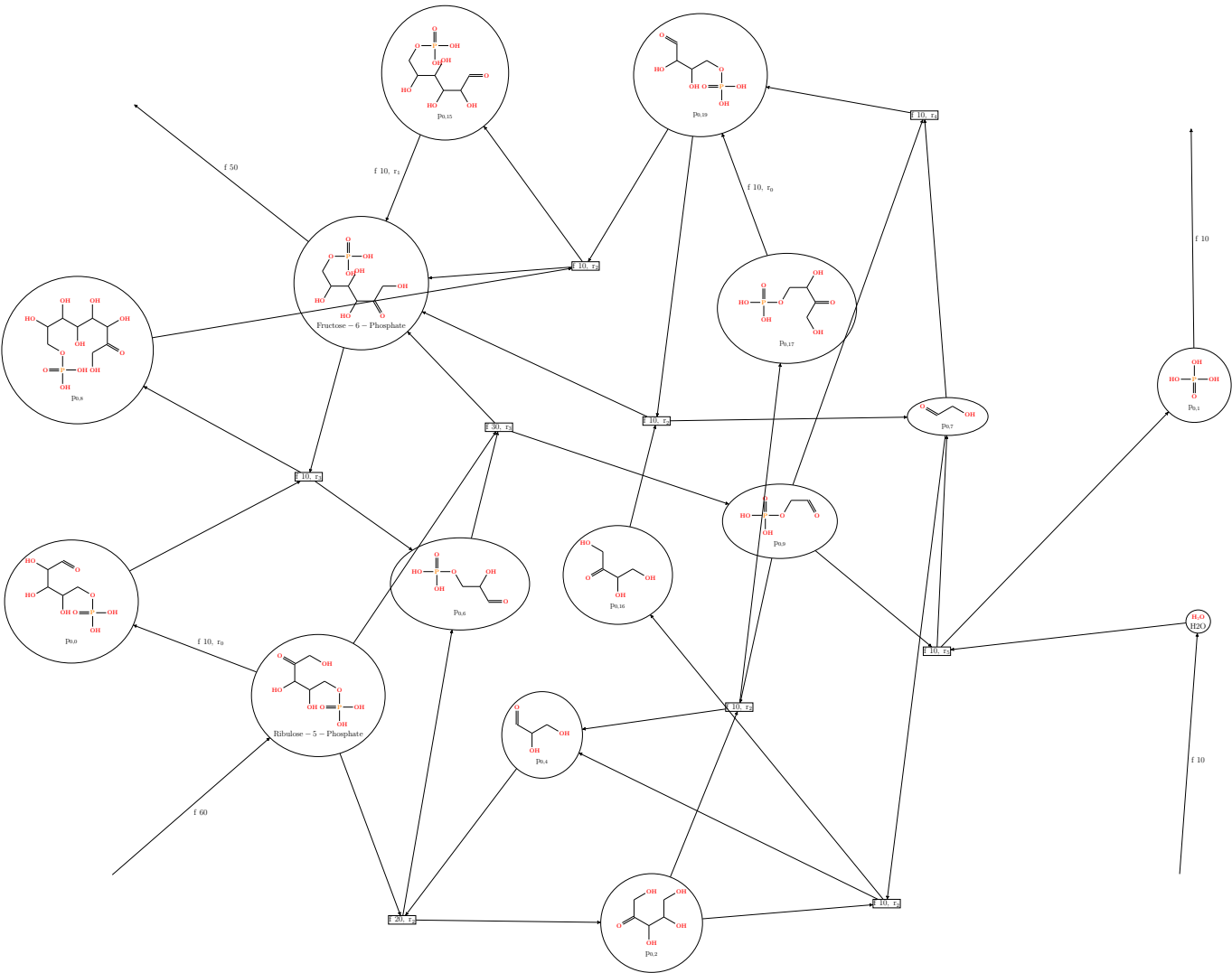
0.22.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/095_dg_0_11100_f_10_0_filt

0.23 Enzymes: [Aldose-Ketose -textgreater(1), Transketo-
lase(2)]

0.24 Flow Solutions, id 11

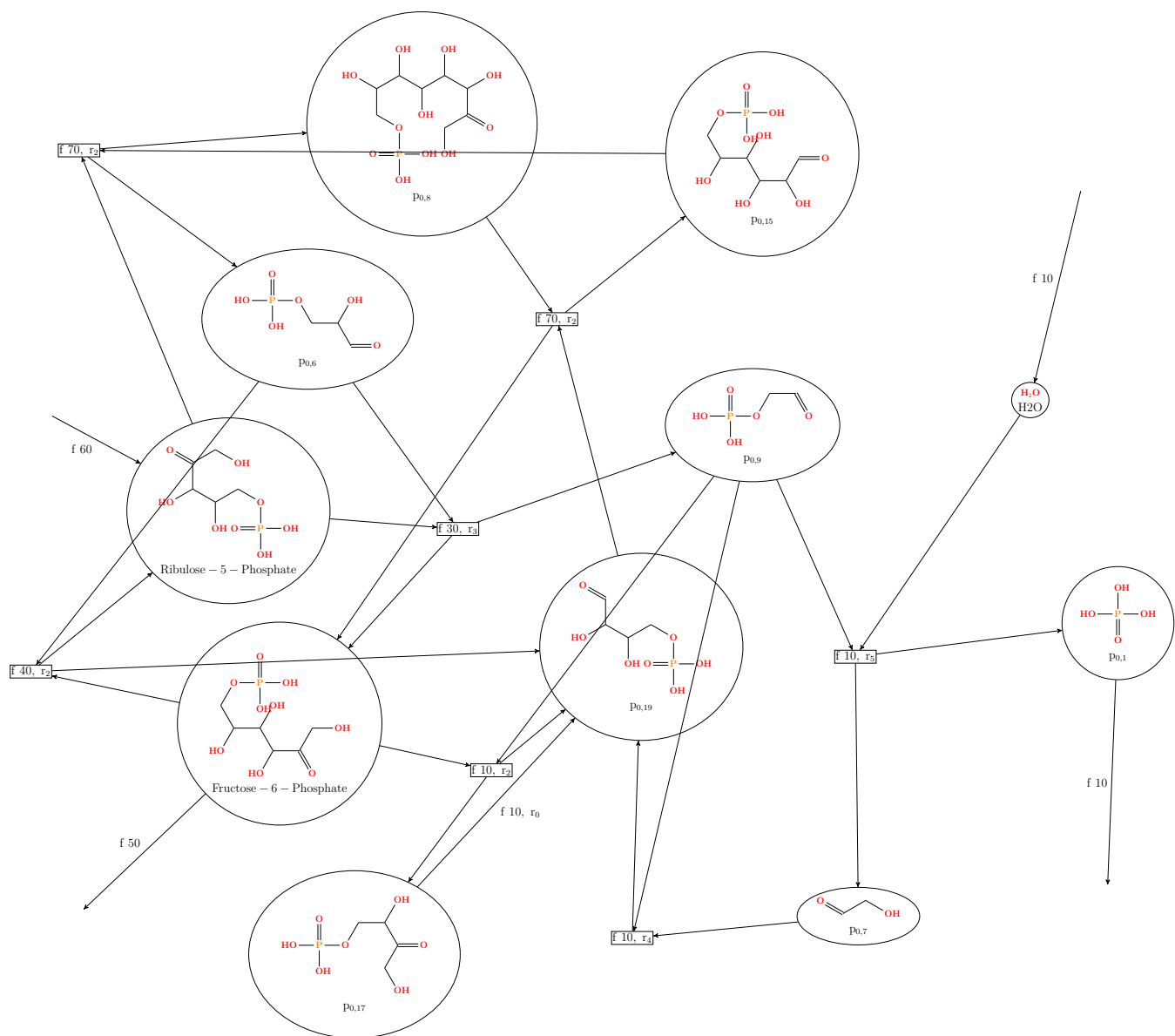
0.24.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/099_dg_0_11100_f_11_0_filt

0.27 Enzymes: [Aldose-Ketose -textgreater(1), Aldolase(4)]

0.28 Flow Solutions, id 13

0.28.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

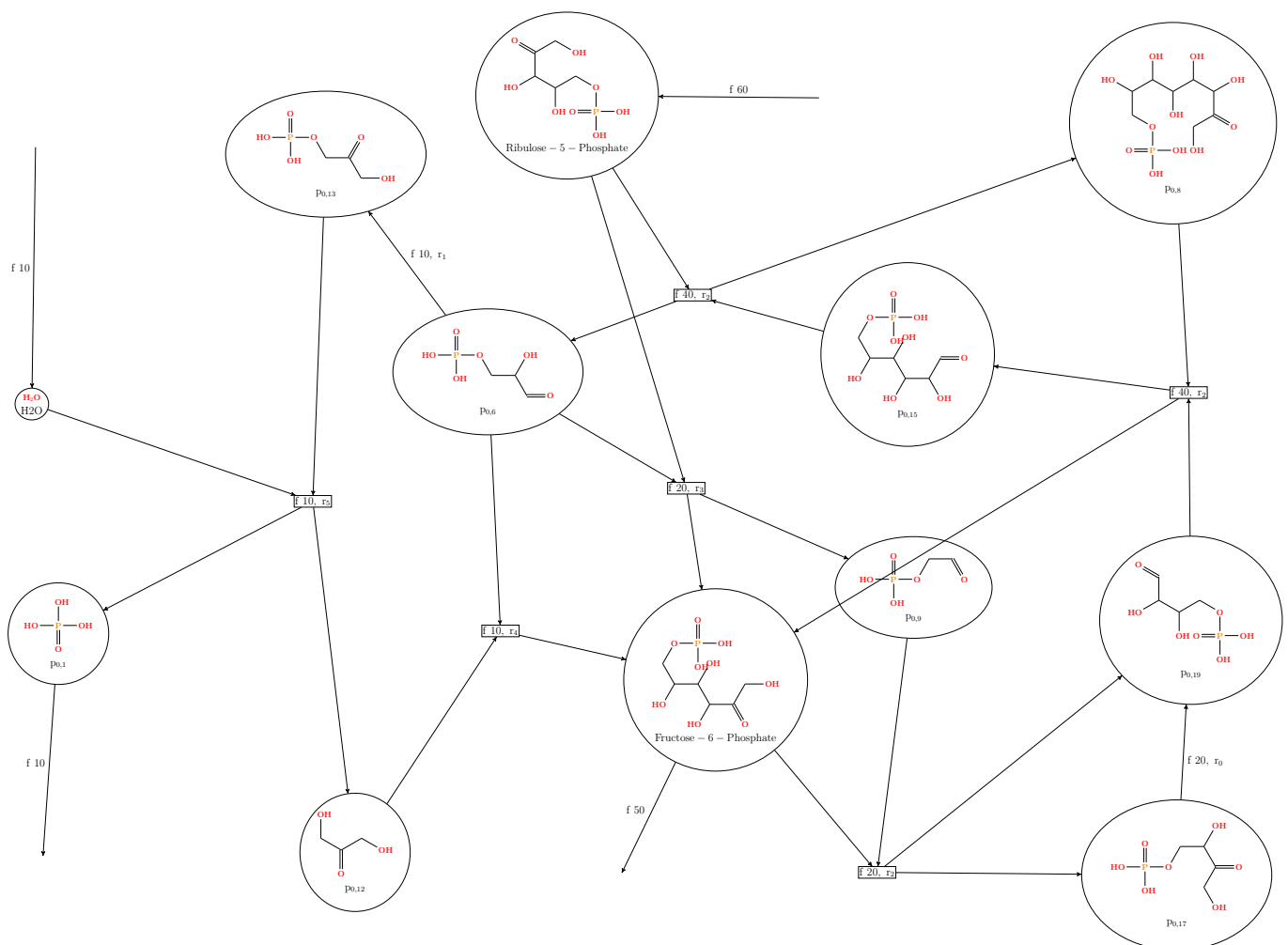
Fructose-6-Phosphate 0 50

H₂O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/107_dg_0_11100_f_13_0_filt

0.29 Enzymes: [Aldose-Ketose -textgreater(1), Phophohydrolase(5)]

0.30 Flow Solutions, id 14

0.30.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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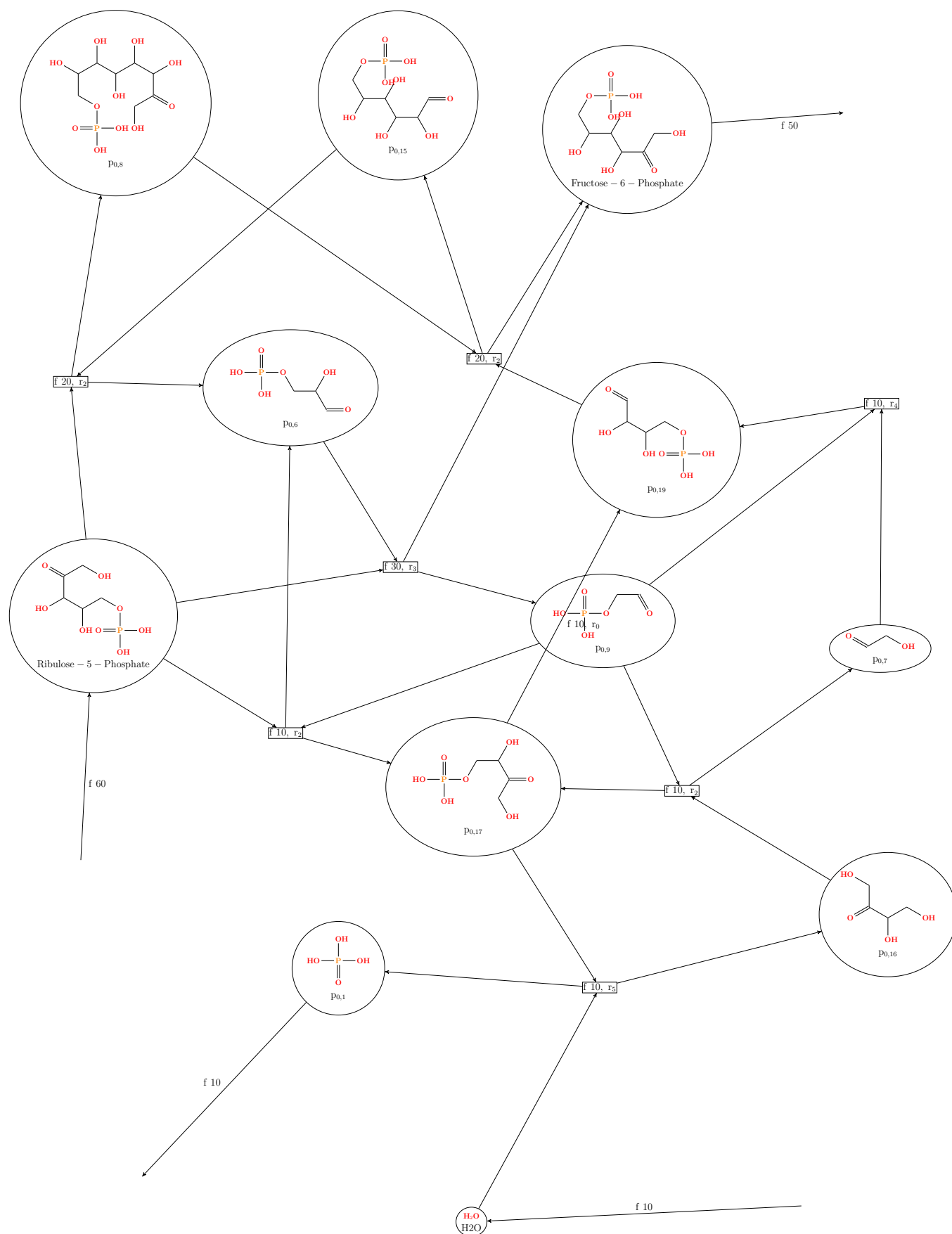
Fructose-6-Phosphate	0	50
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H2O	10	0
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Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/111_dg_0_11100_f_14_0_filt

0.31 Enzymes: [Transketolase(2), Transaldolase(3)]

0.32 Flow Solutions, id 15

0.32.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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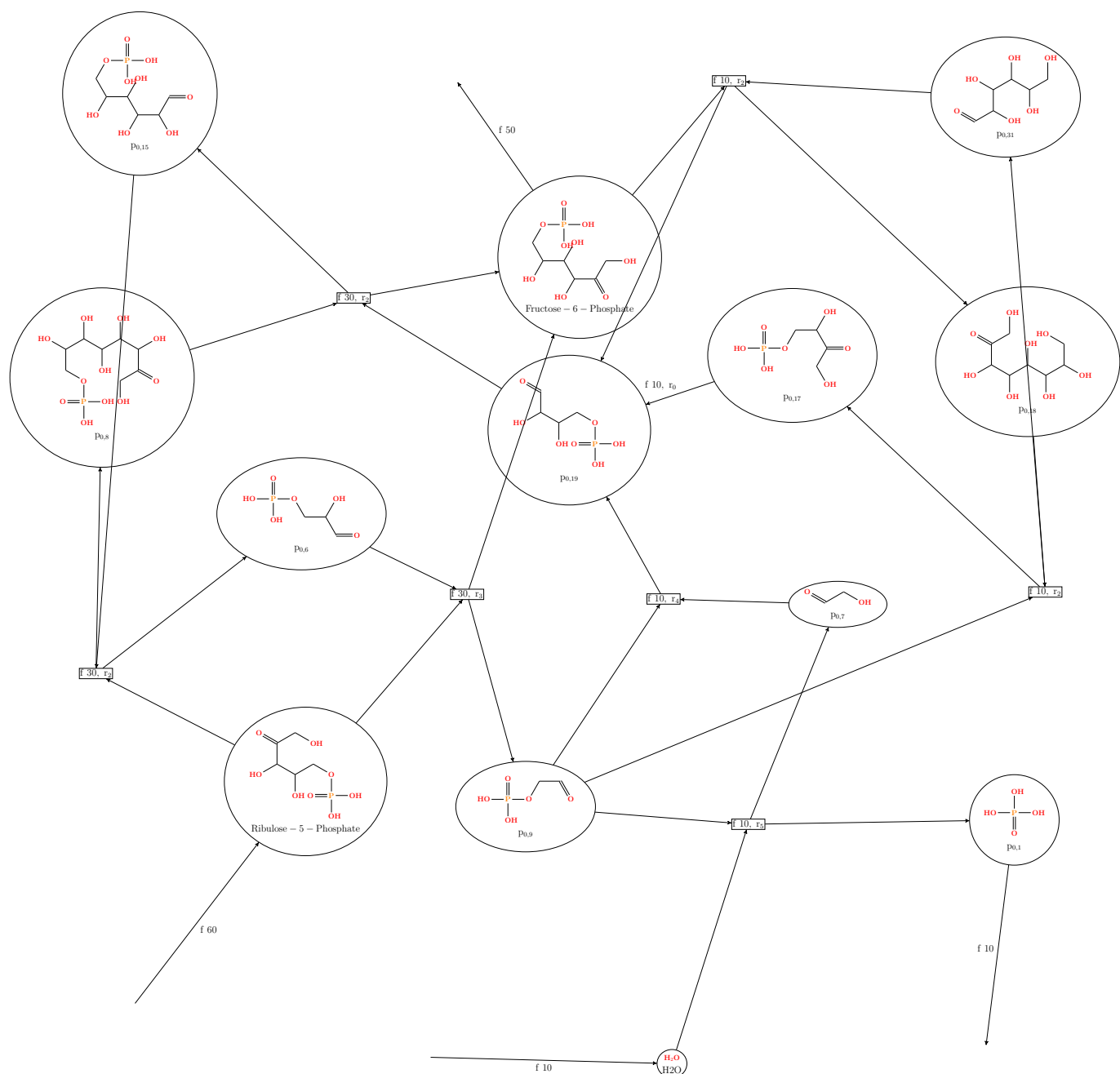
Fructose-6-Phosphate	0	50
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H2O	10	0
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Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/115_dg_0_11100_f_15_0_filt

0.33 Enzymes: [Transketolase(2), Aldolase(4)]

0.34 Flow Solutions, id 16

0.34.1 Solution 0

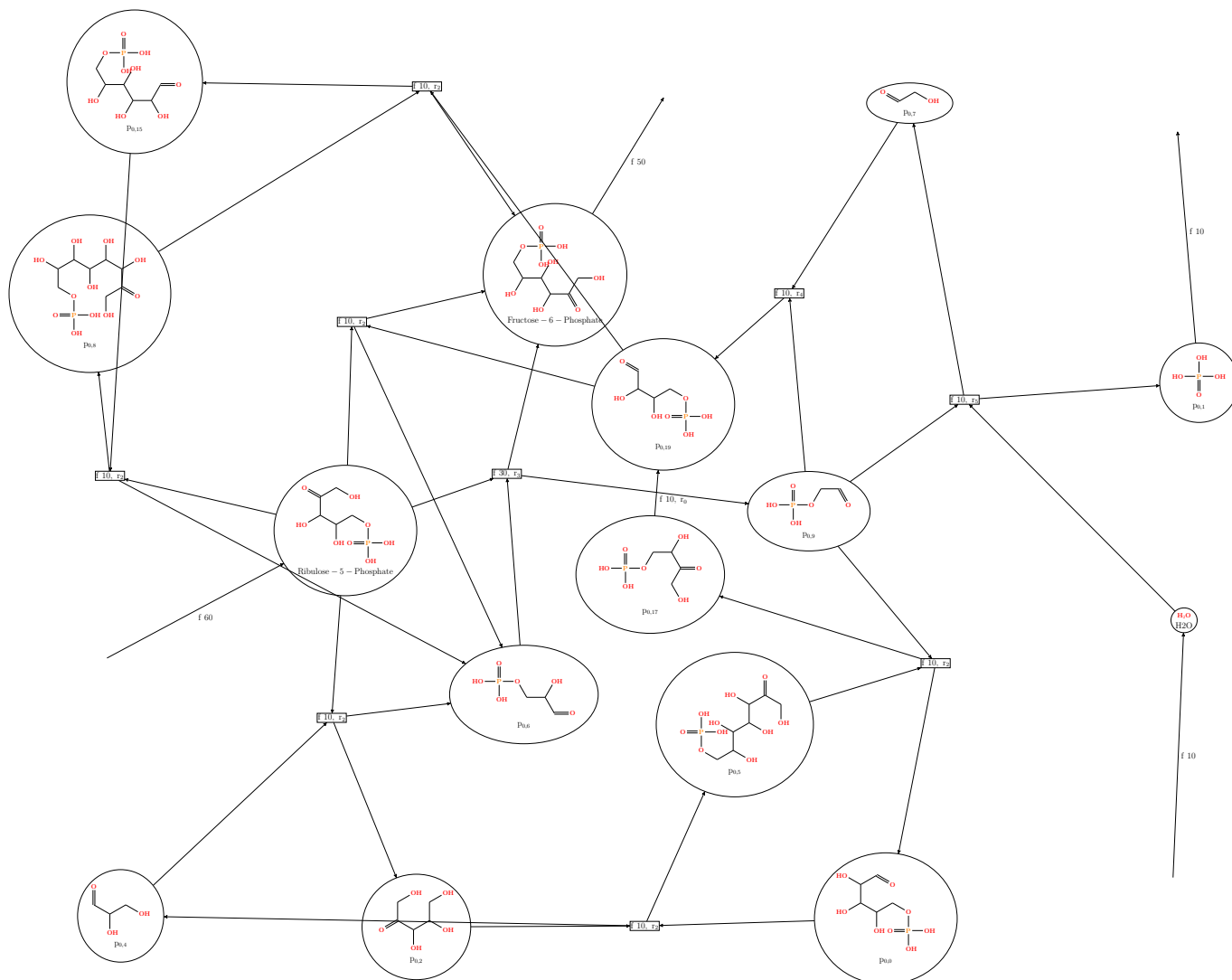
Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0

Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/119_dg_0_11100_f_16_0_filt

0.35 Enzymes: [Transketolase(2), Phosphohydrolase(5)]

0.36 Flow Solutions, id 17

0.36.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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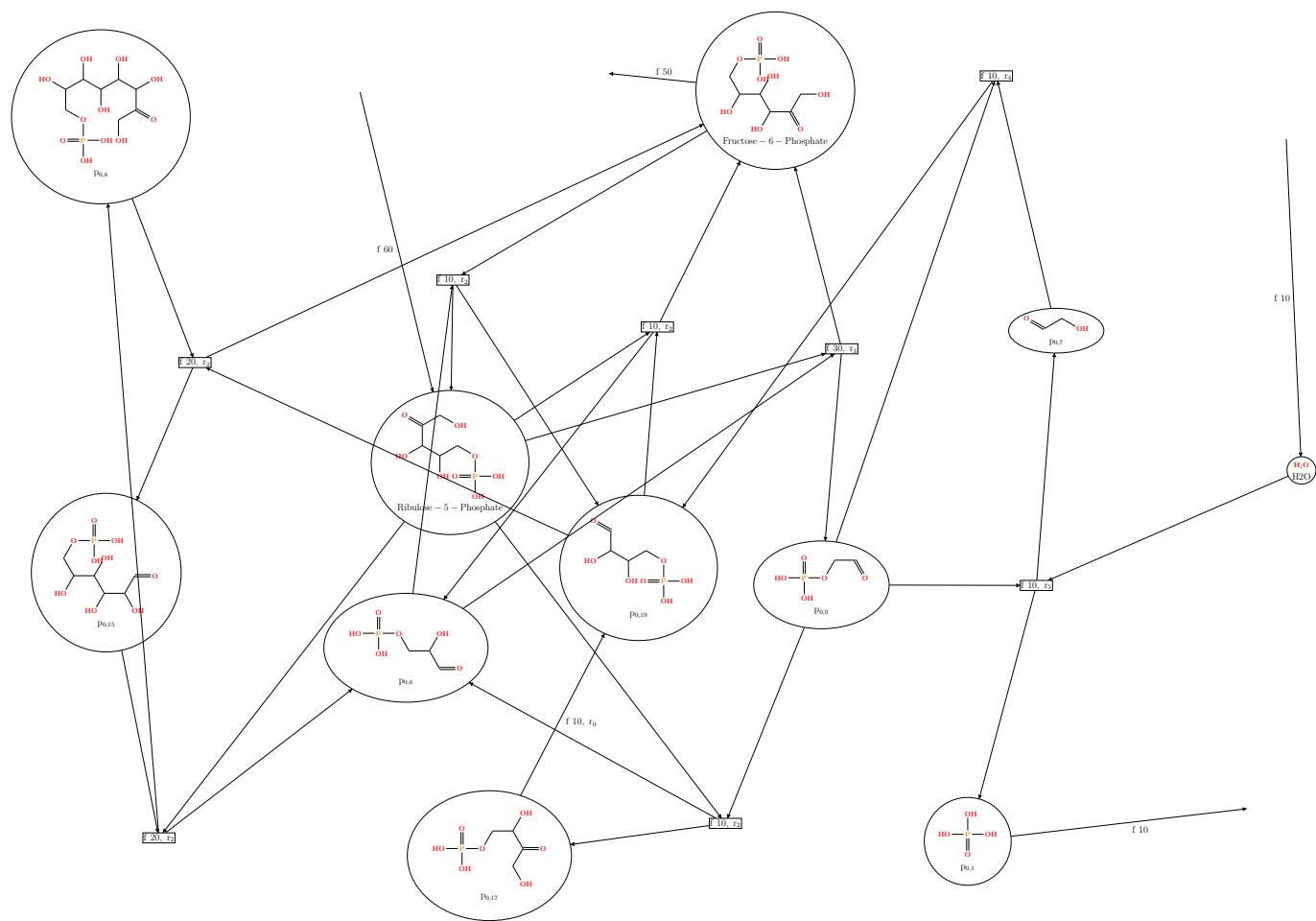
Fructose-6-Phosphate 0 50

H20 10 0

Ribulose-5-Phosphate 60 0

$p_{\{0,1\}}$ 0 10

Filtered Graph



File: out/123_dg_0_11100_f_17_0_filt

0.37 Enzymes: [Transaldolase(3), Aldolase(4)]

0.38 Flow Solutions, id 18

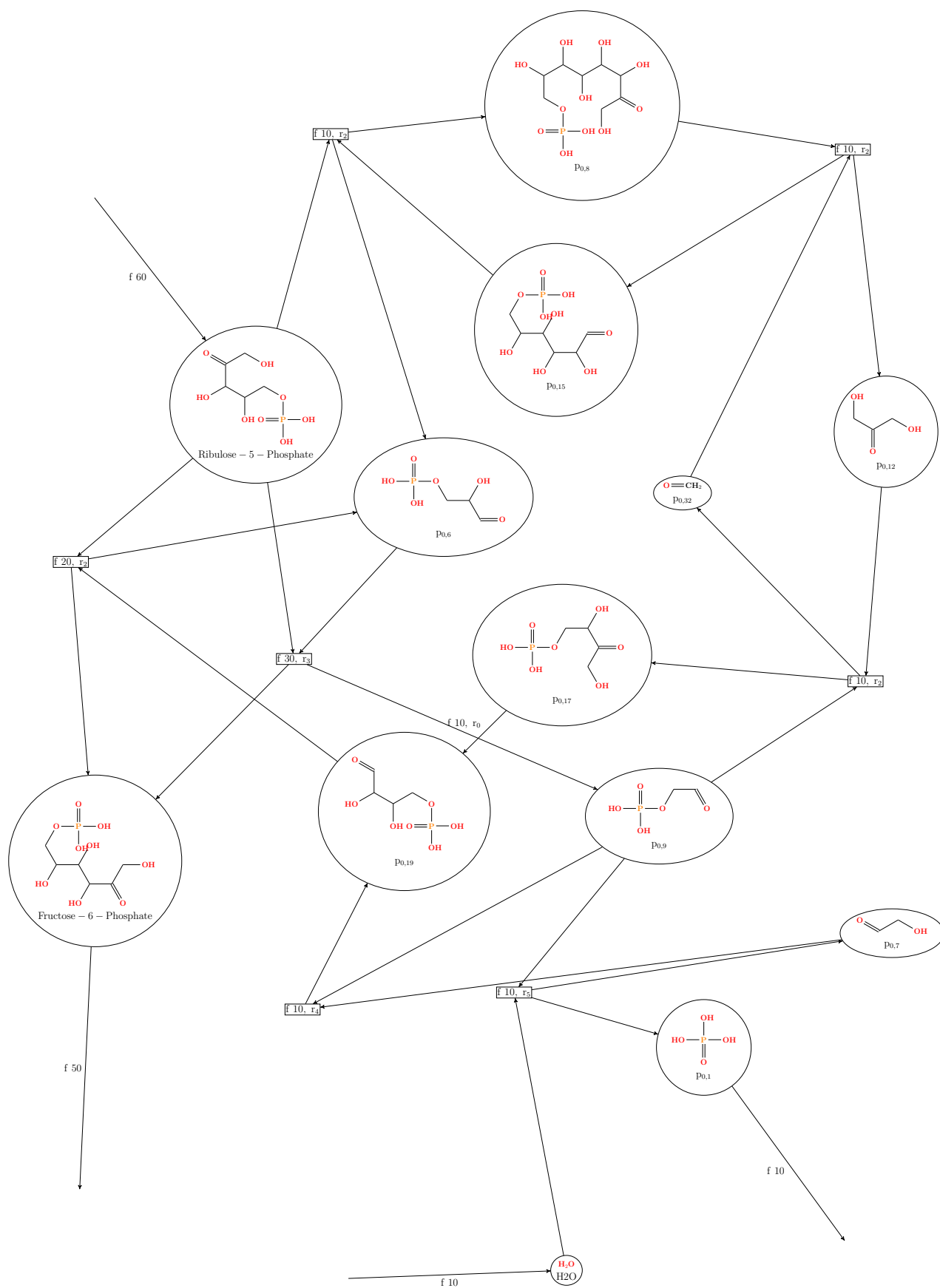
0.38.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/127_dg_0_11100_f_18_0_filt

0.39 Enzymes: [Transaldolase(3), Phosphohydrolase(5)]

0.40 Flow Solutions, id 19

0.40.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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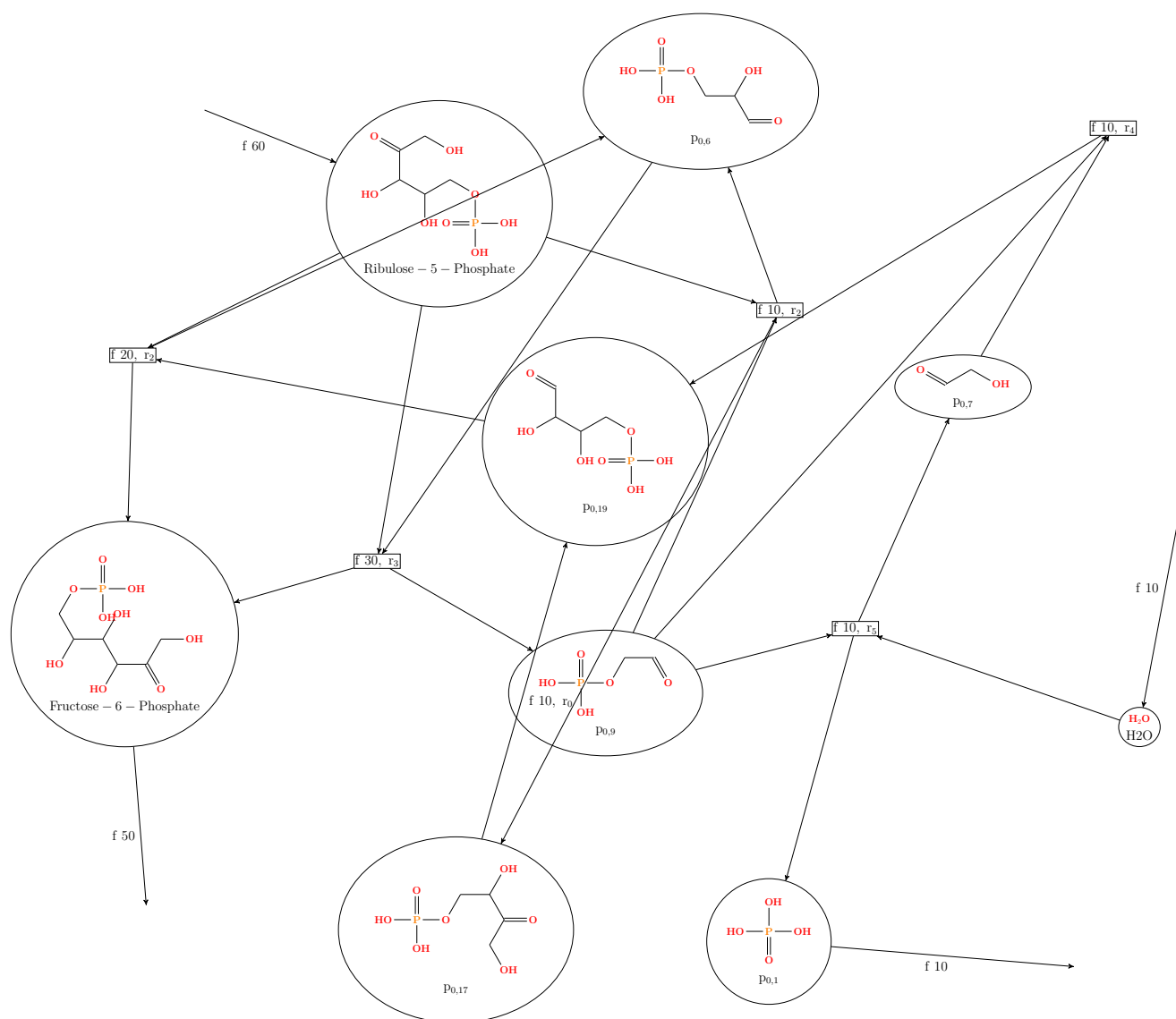
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

$p_{\{0,1\}}$ 0 10

Filtered Graph



File: out/131_dg_0_11100_f_19_0_filt

0.41 Enzymes: [Aldolase(4), Phosphohydrolase(5)]

0.42 Flow Solutions, id 20

0.42.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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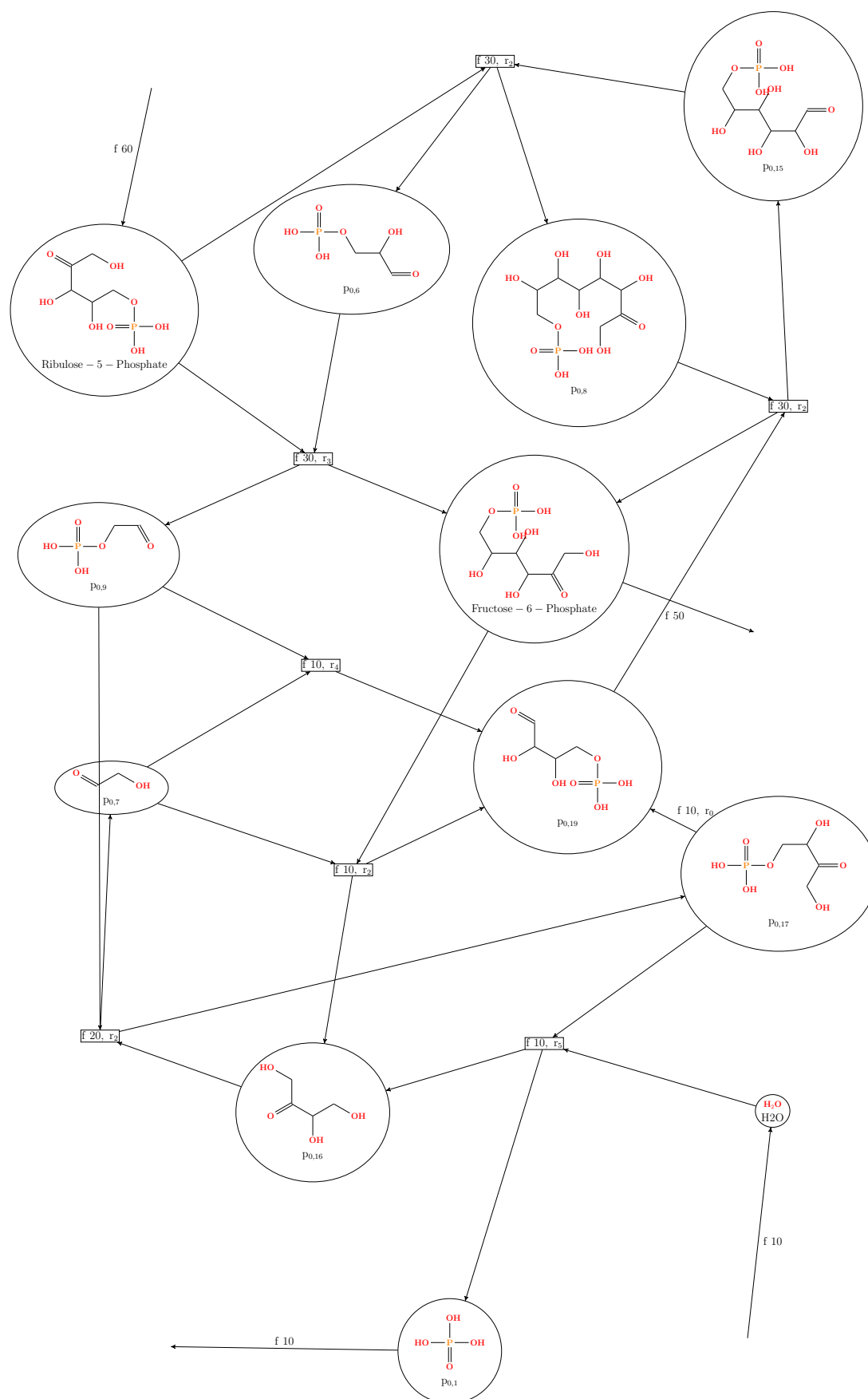
Fructose-6-Phosphate	0	50
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H ₂ O	10	0
------------------	----	---

Ribulose-5-Phosphate	60	0
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p _{0,1}	0	10
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Filtered Graph



File: out/135_dg_0_11100_f_20_0_filt

0.43 Enzymes: [Aldose-Ketose textless(0), Aldose-Ketose -textgreater(1), Transketolase(2)]

0.44 Flow Solutions, id 21

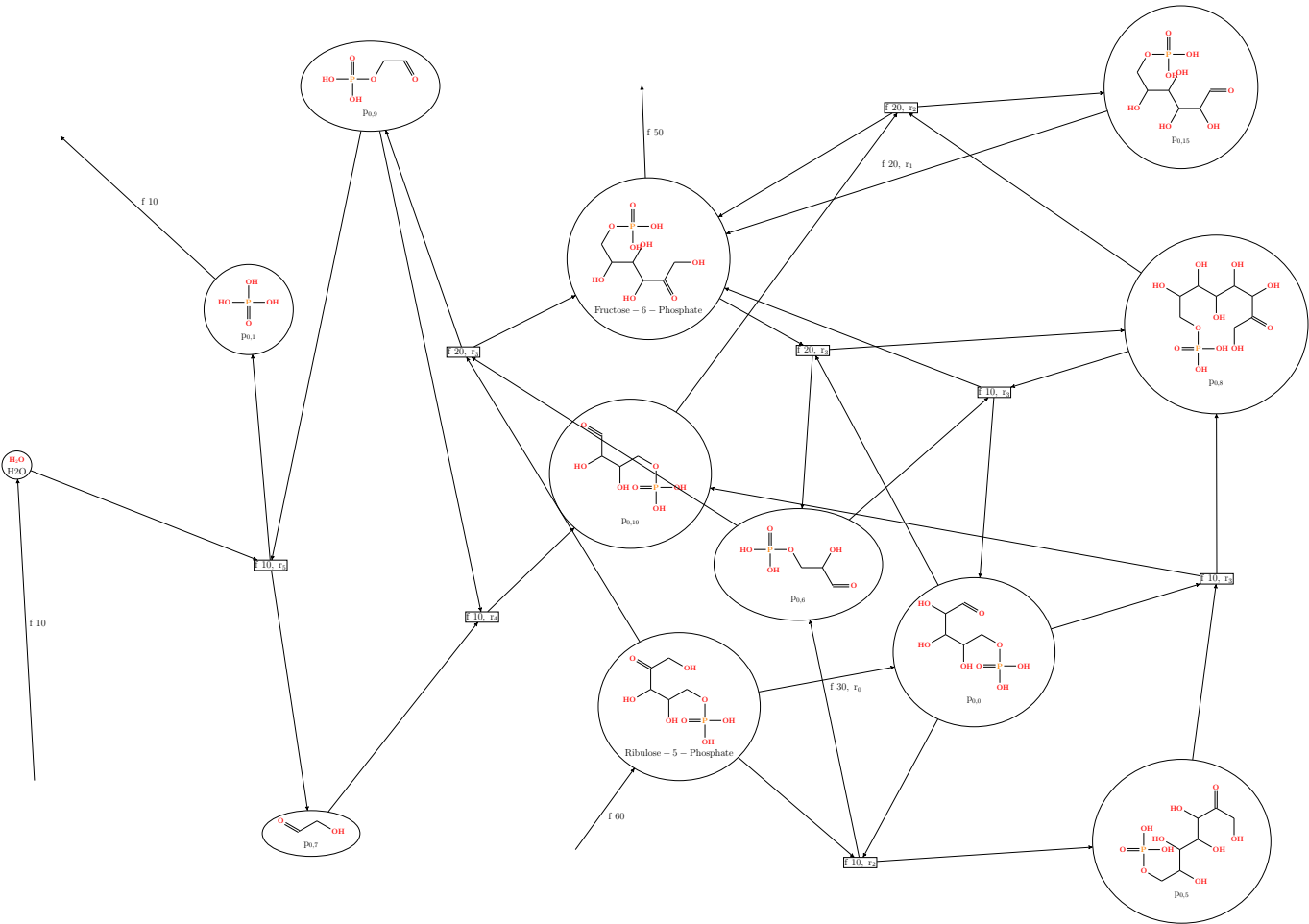
0.44.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/139_dg_0_11100_f_21_0_filt

0.45 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose
-textgreater(1), Transaldolase(3)]

0.46 Flow Solutions, id 22

0.46.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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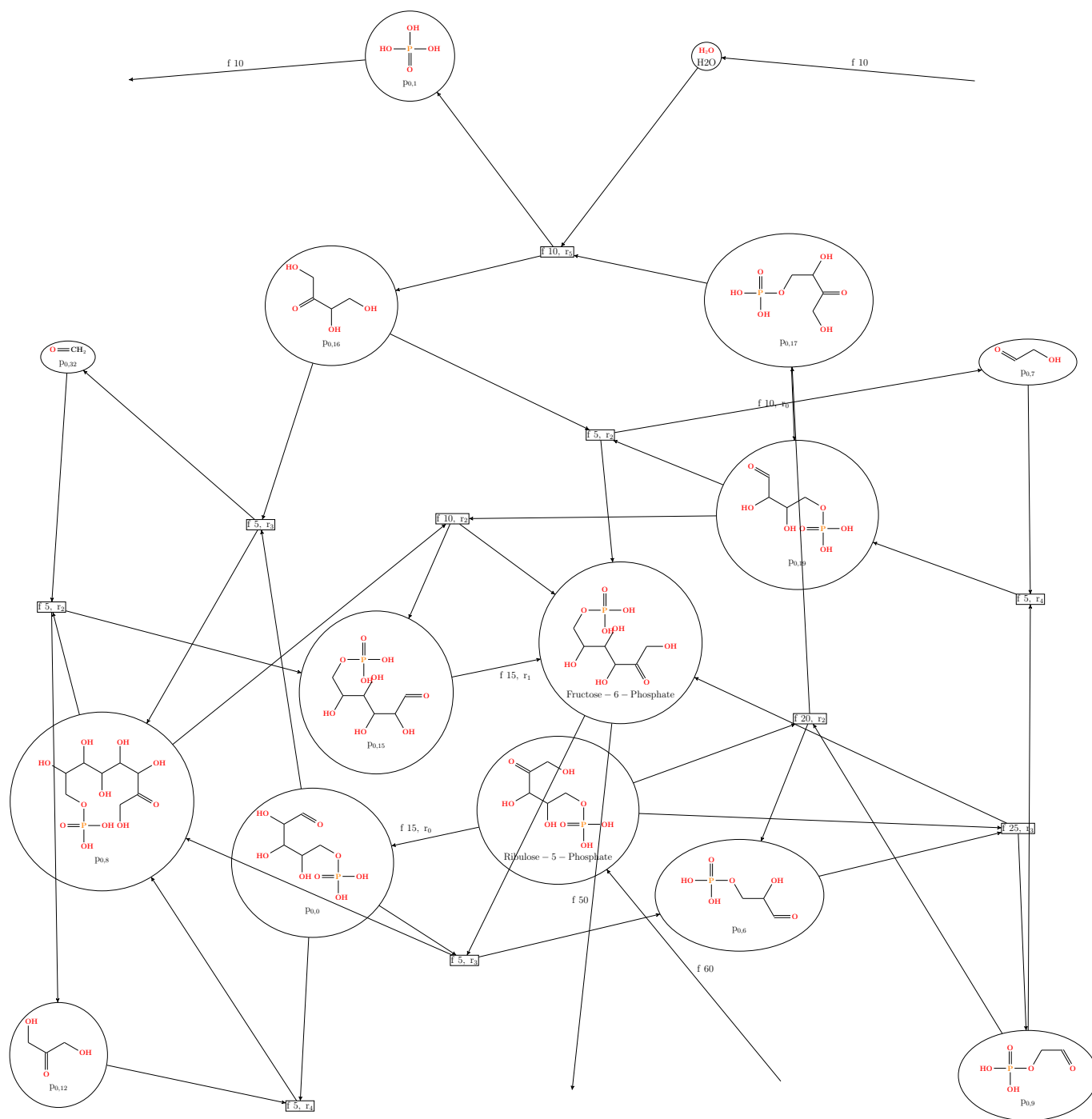
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/143_dg_0_11100_f_22_0_filt

0.47 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose
-textgreater(1), Aldolase(4)]

0.48 Flow Solutions, id 23

0.48.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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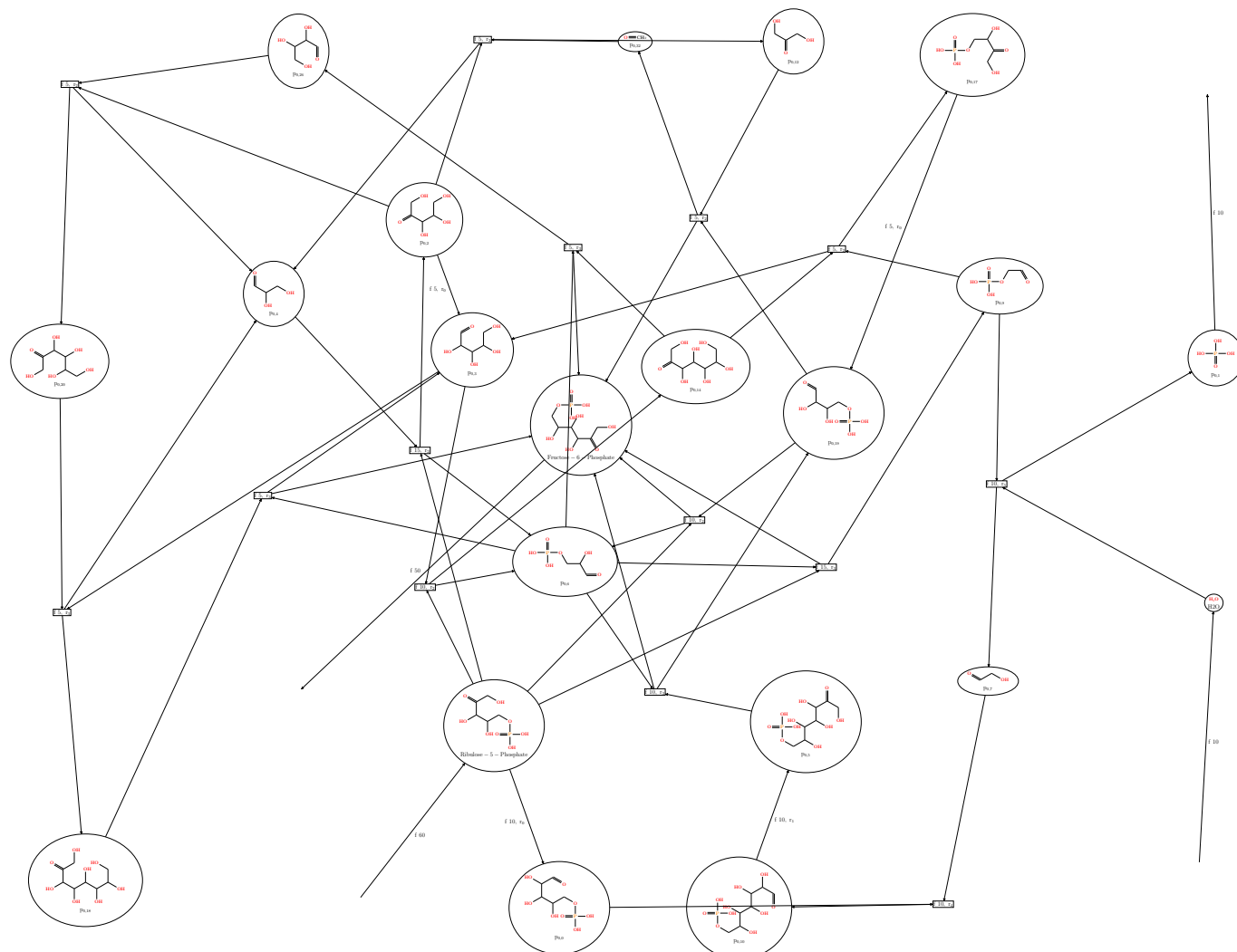
Fructose-6-Phosphate 0 50

H20	10 0
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Ribulose-5-Phosphate 60 0

$p_{\{0,1\}}$ 0 10

Filtered Graph



File: out/147_dg_0_11100_f_23_0_filt

0.49 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose-textgreater(1), Phophohydrolase(5)]

0.50 Flow Solutions, id 24

0.50.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

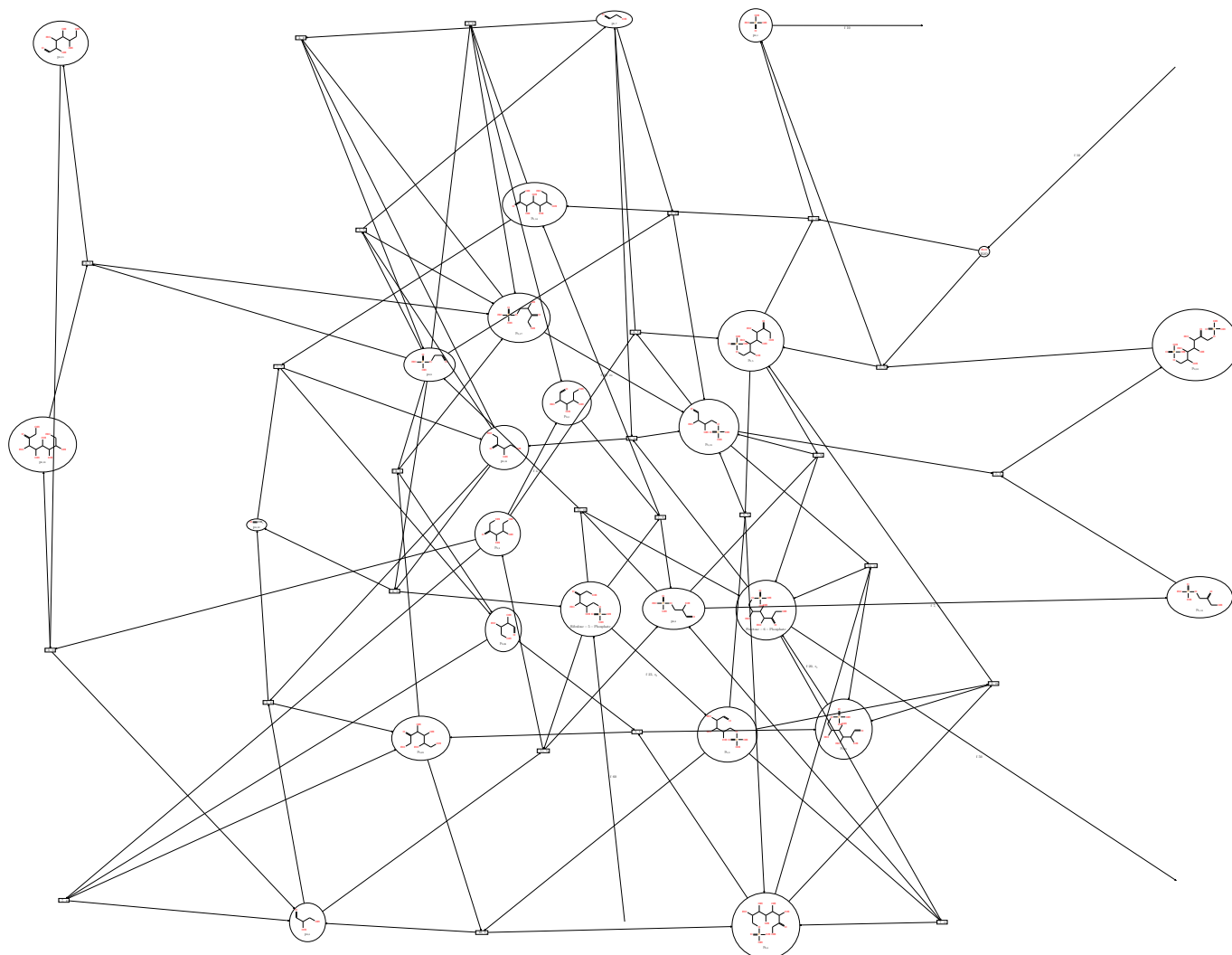
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/153_dg_0_11100_f_24_0_filt

0.51 Enzymes: [Aldose-Ketose textless-(0), Transketolase(2), Transaldolase(3)]

0.52 Flow Solutions, id 25

0.52.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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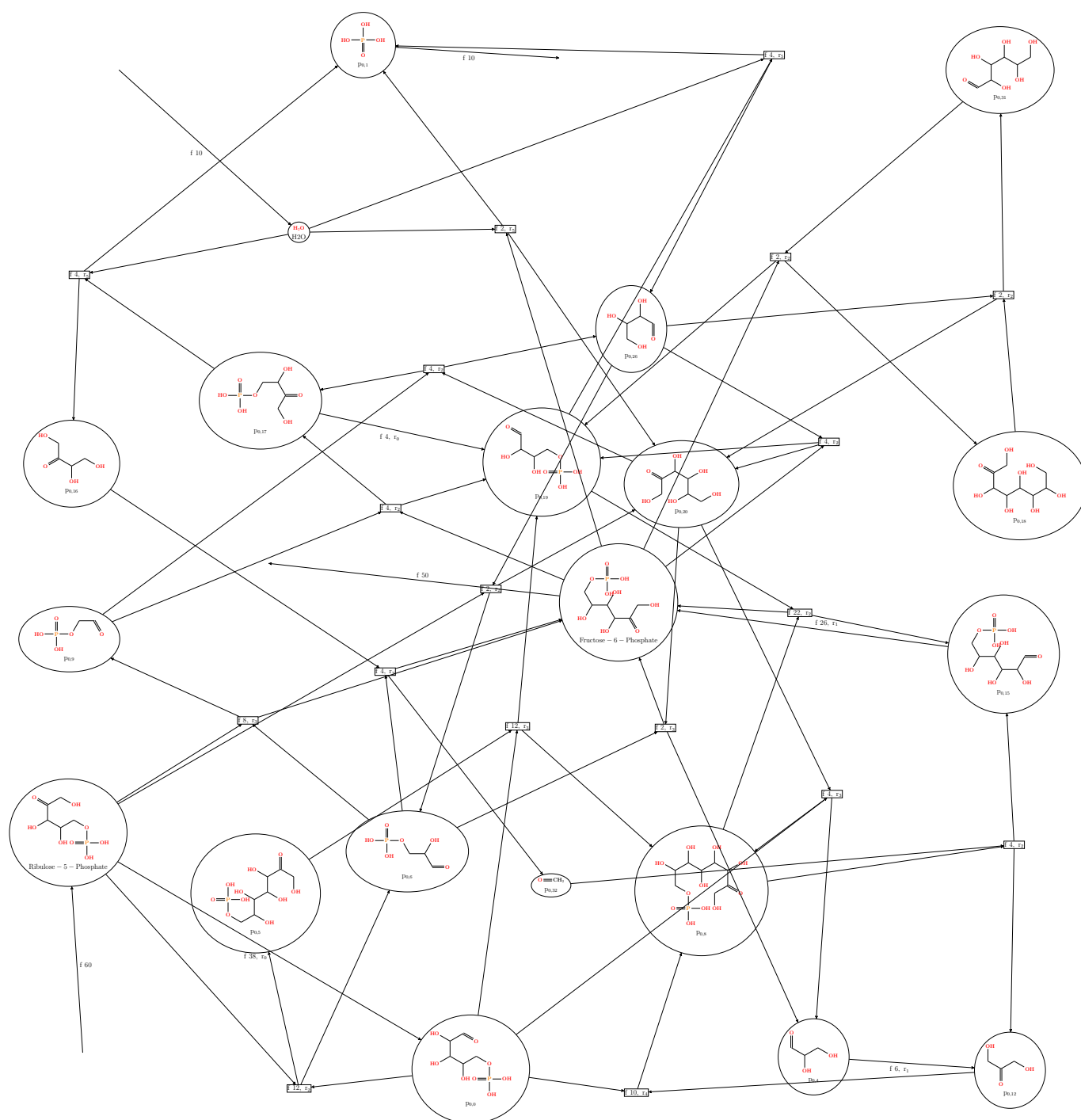
Fructose-6-Phosphate	0	50
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H2O	10	0
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Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/157_dg_0_11100_f_25_0_filt

0.53 Enzymes: [Aldose-Ketose textless-(0), Transketolase(2), Aldolase(4)]

0.54 Flow Solutions, id 26

0.54.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

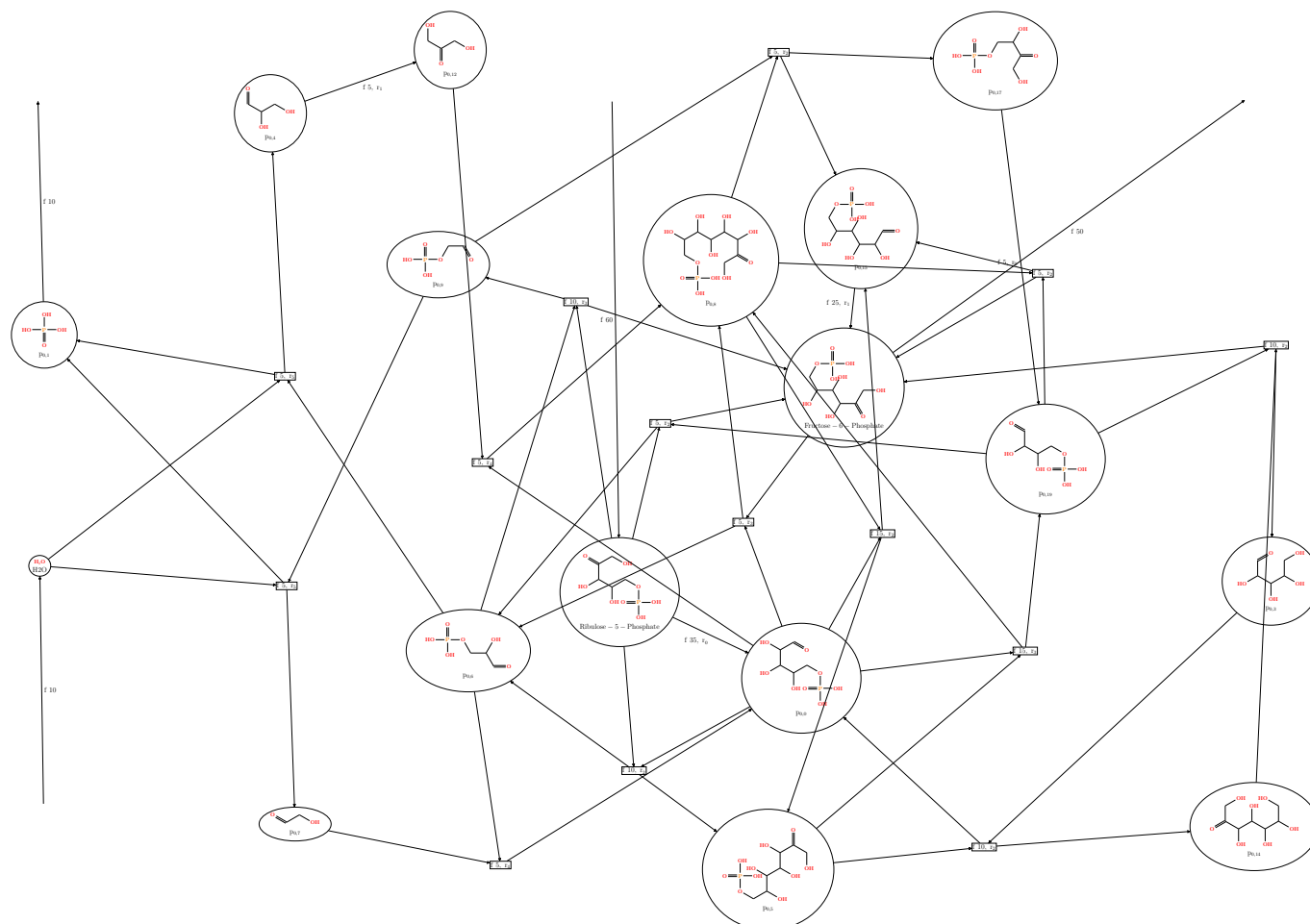
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/161_dg_0_11100_f_26_0_filt

0.57 Enzymes: [Aldose-Ketose textless-(0), Transaldolase(3), Aldolase(4)]

0.58 Flow Solutions, id 28

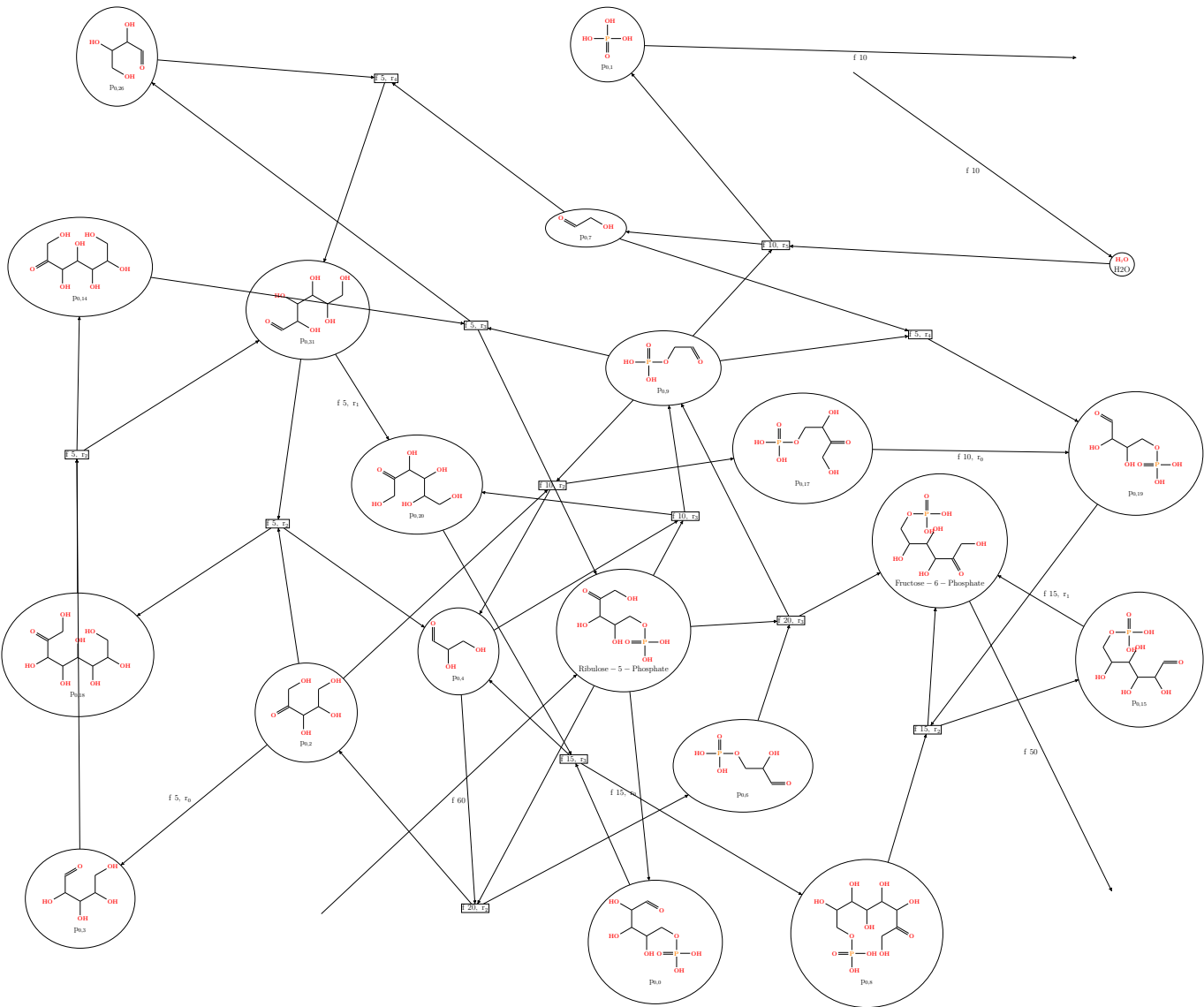
0.58.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/171_dg_0_11100_f_28_0_filt

0.59 Enzymes: [Aldose-Ketose textless-(0), Transaldolase(3), Phophohydrolase(5)]

0.60 Flow Solutions, id 29

0.60.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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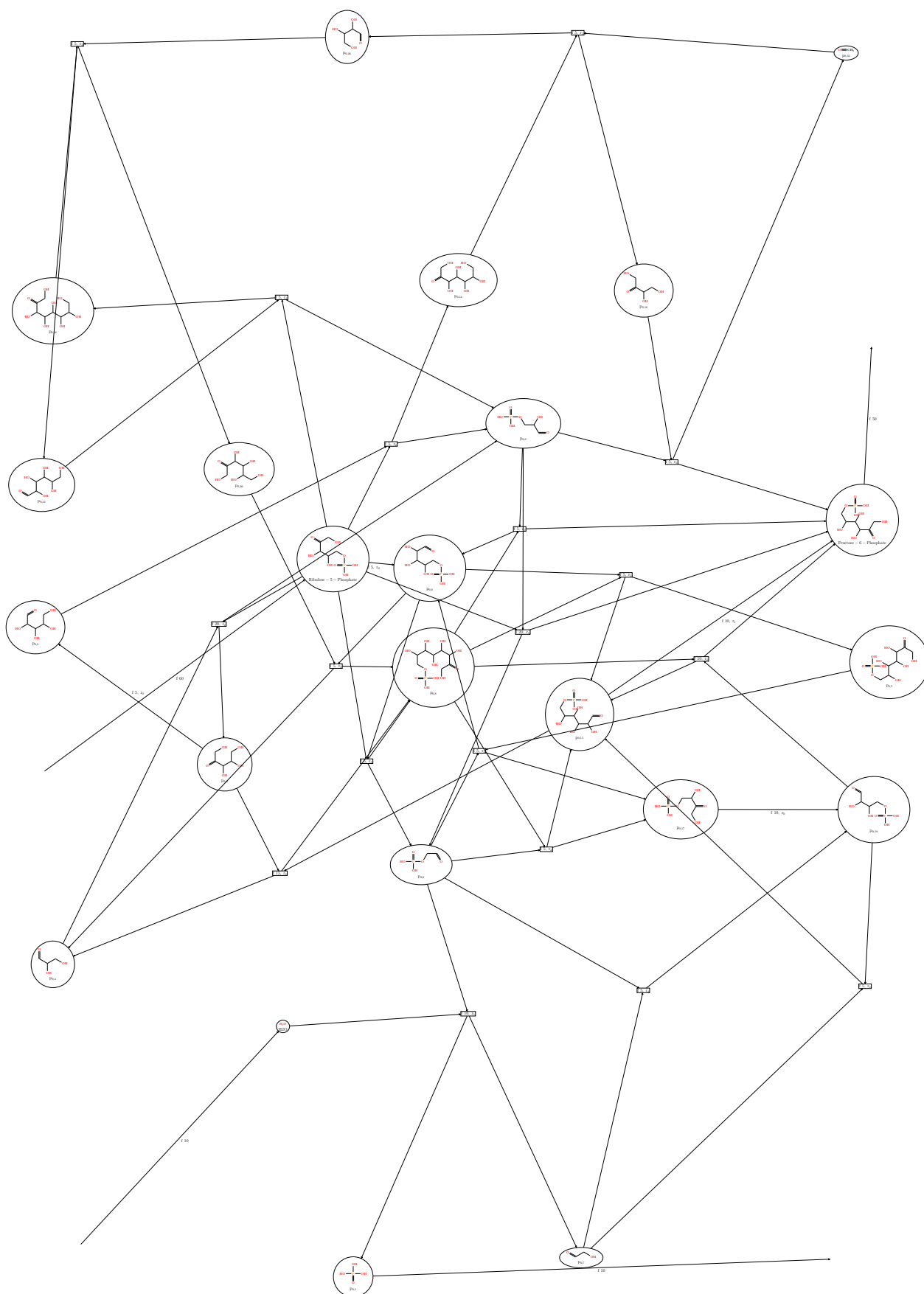
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/175_dg_0_11100_f_29_0_filt

0.61 Enzymes: [Aldose-Ketose textless-(0), Aldolase(4), Phosphohydrolase(5)]

0.62 Flow Solutions, id 30

0.62.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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Fructose-6-Phosphate 0 50

H20

10 0

0

Ribulose-5-Phosphate 60 0

60 0

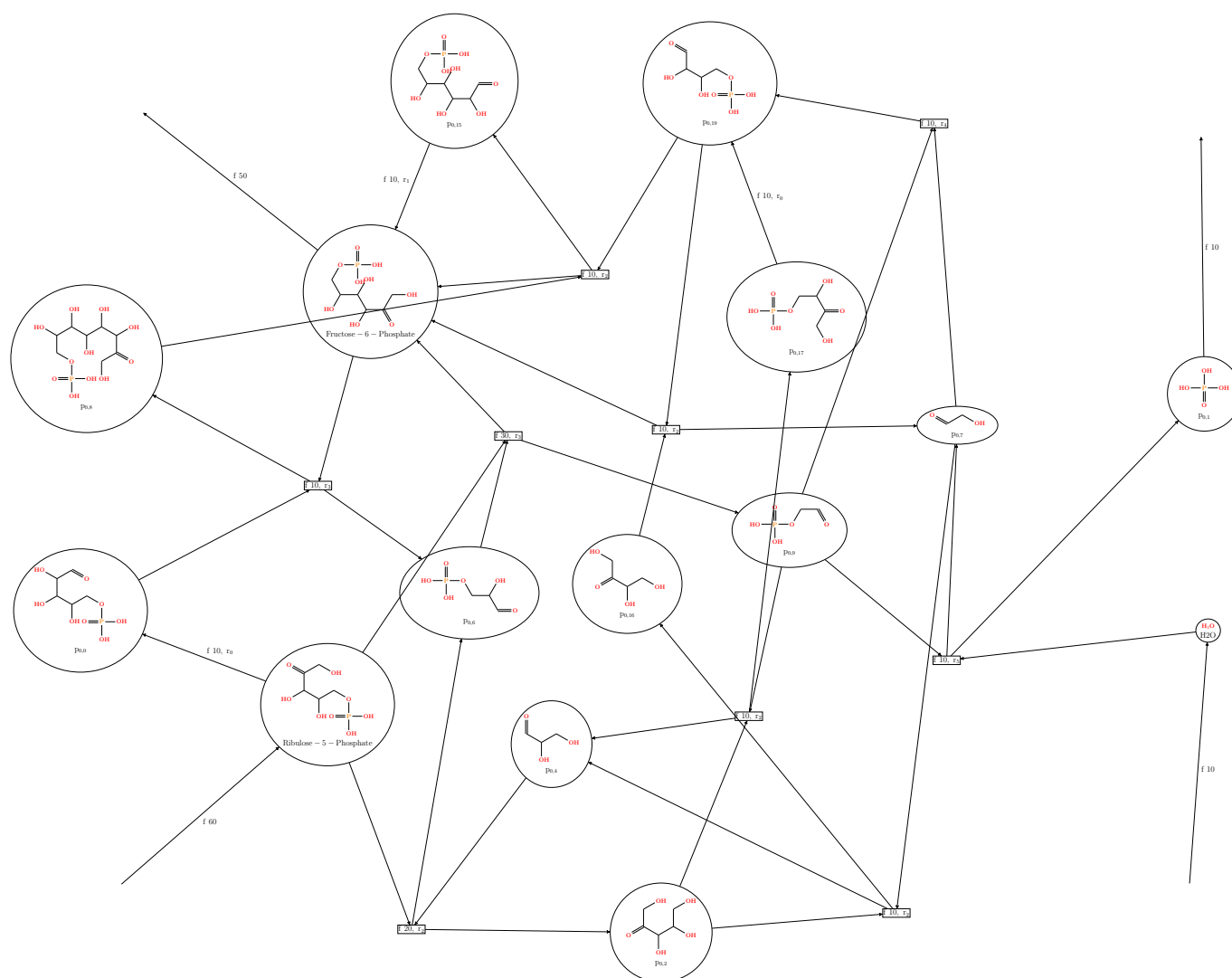
0

 $p_{\{0,1\}}$

0 10

10

Filtered Graph



File: out/179_dg_0_11100_f_30_0_filt

0.63 Enzymes: [Aldose-Ketose -textgreater(1), Transketolase(2), Transaldolase(3)]

0.64 Flow Solutions, id 31

0.64.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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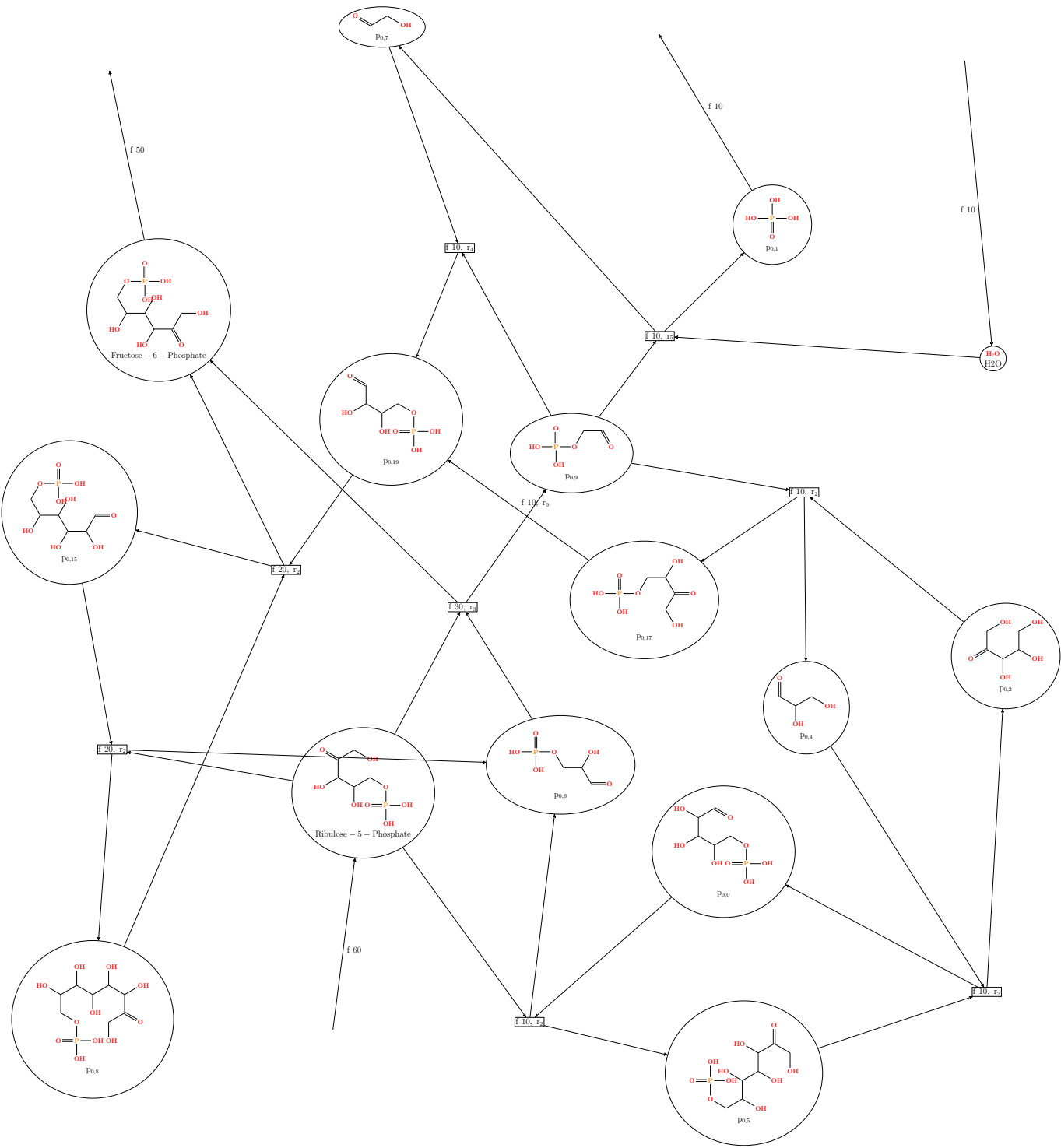
Fructose-6-Phosphate	0	50
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H2O	10	0
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Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/183_dg_0_11100_f_31_0_filt

0.65 Enzymes: [Aldose-Ketose -textgreater(1), Transketo-
lase(2), Aldolase(4)]

0.66 Flow Solutions, id 32

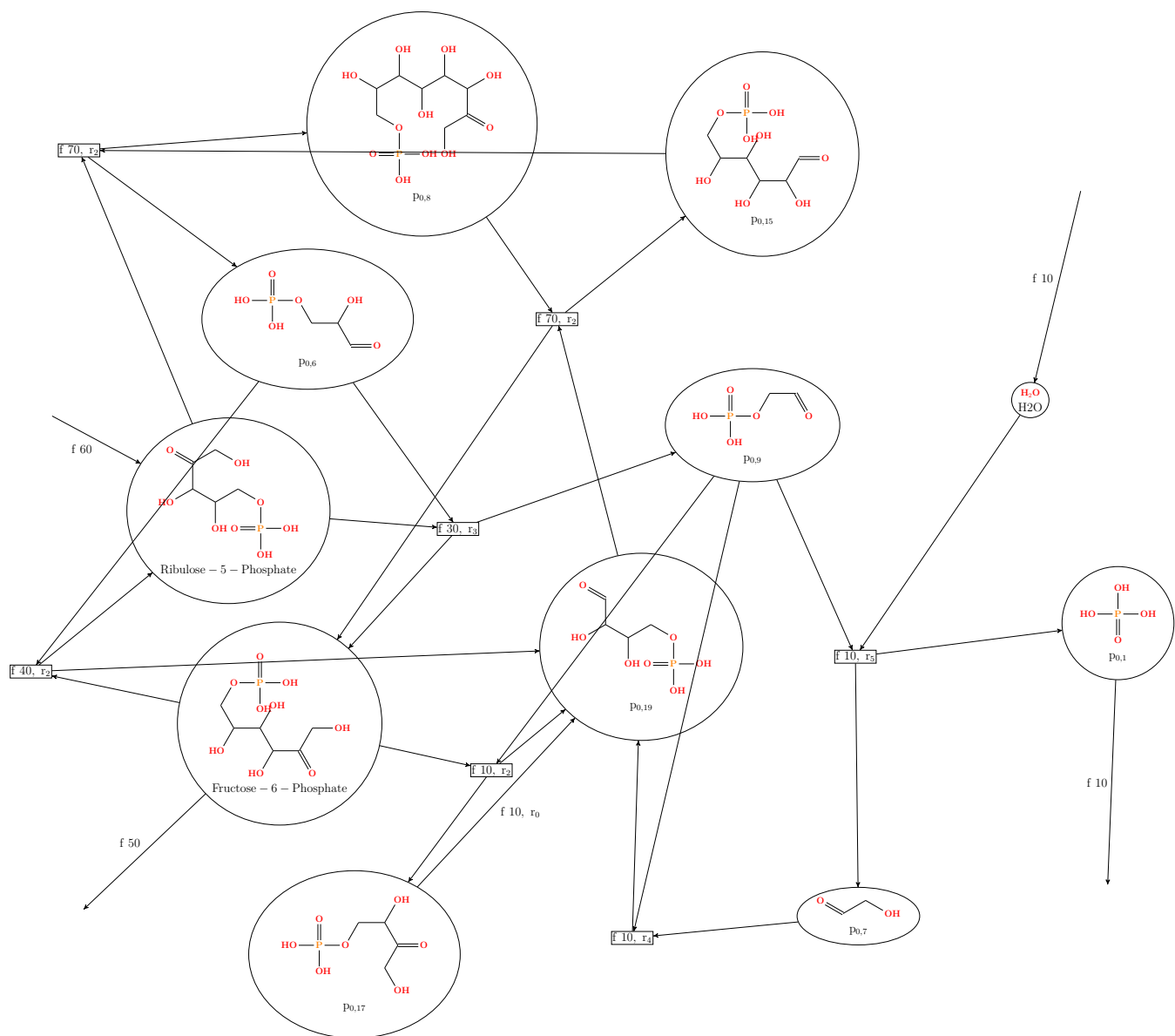
0.66.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/187_dg_0_11100_f_32_0_filt

0.67 Enzymes: [Aldose-Ketose -textgreater(1), Transketolase(2), Phophohydrolase(5)]

0.68 Flow Solutions, id 33

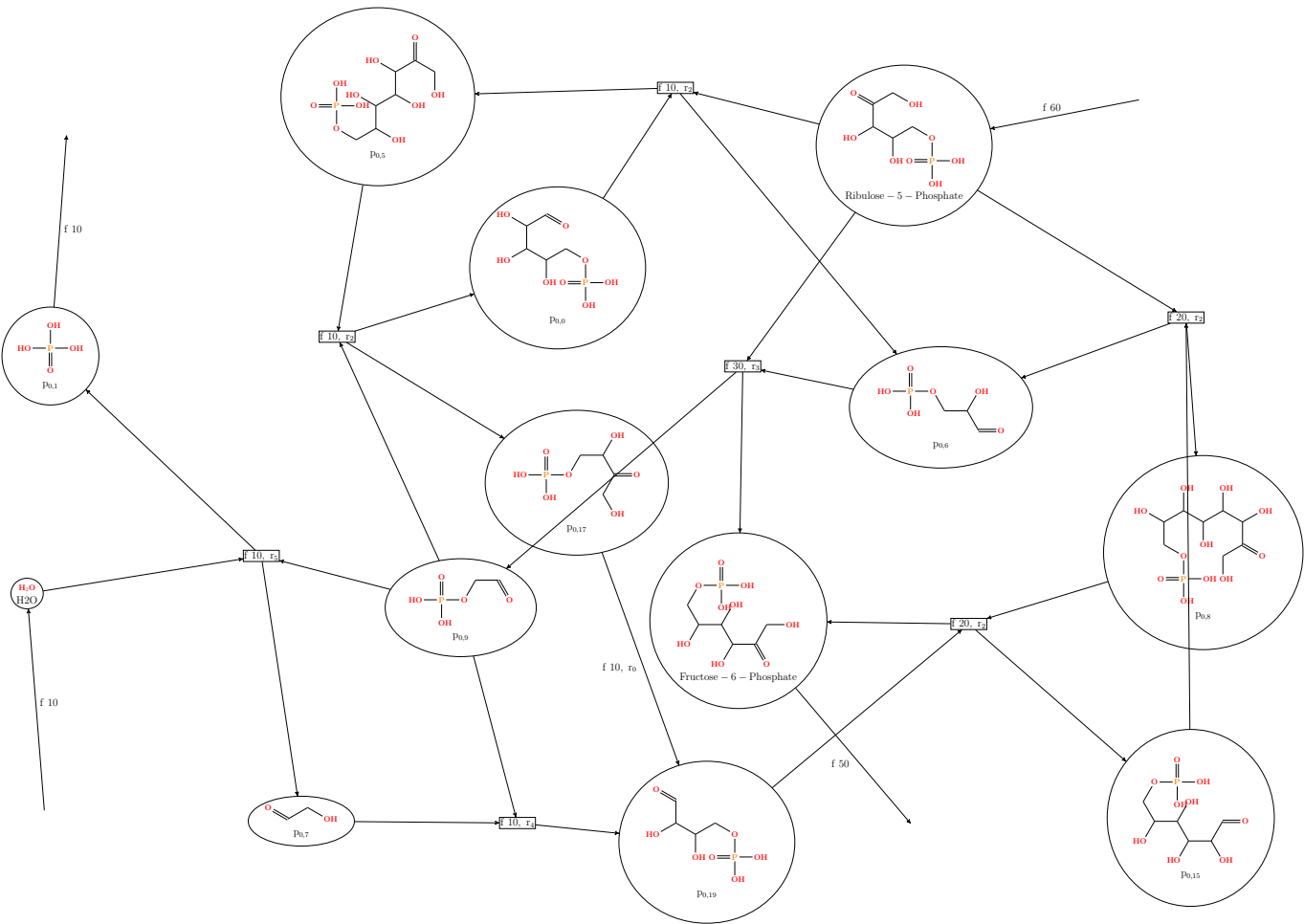
0.68.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/191_dg_0_11100_f_33_0_filt

0.69 Enzymes: [Aldose-Ketose -textgreater(1), Transaldolase(3), Aldolase(4)]

0.70 Flow Solutions, id 34

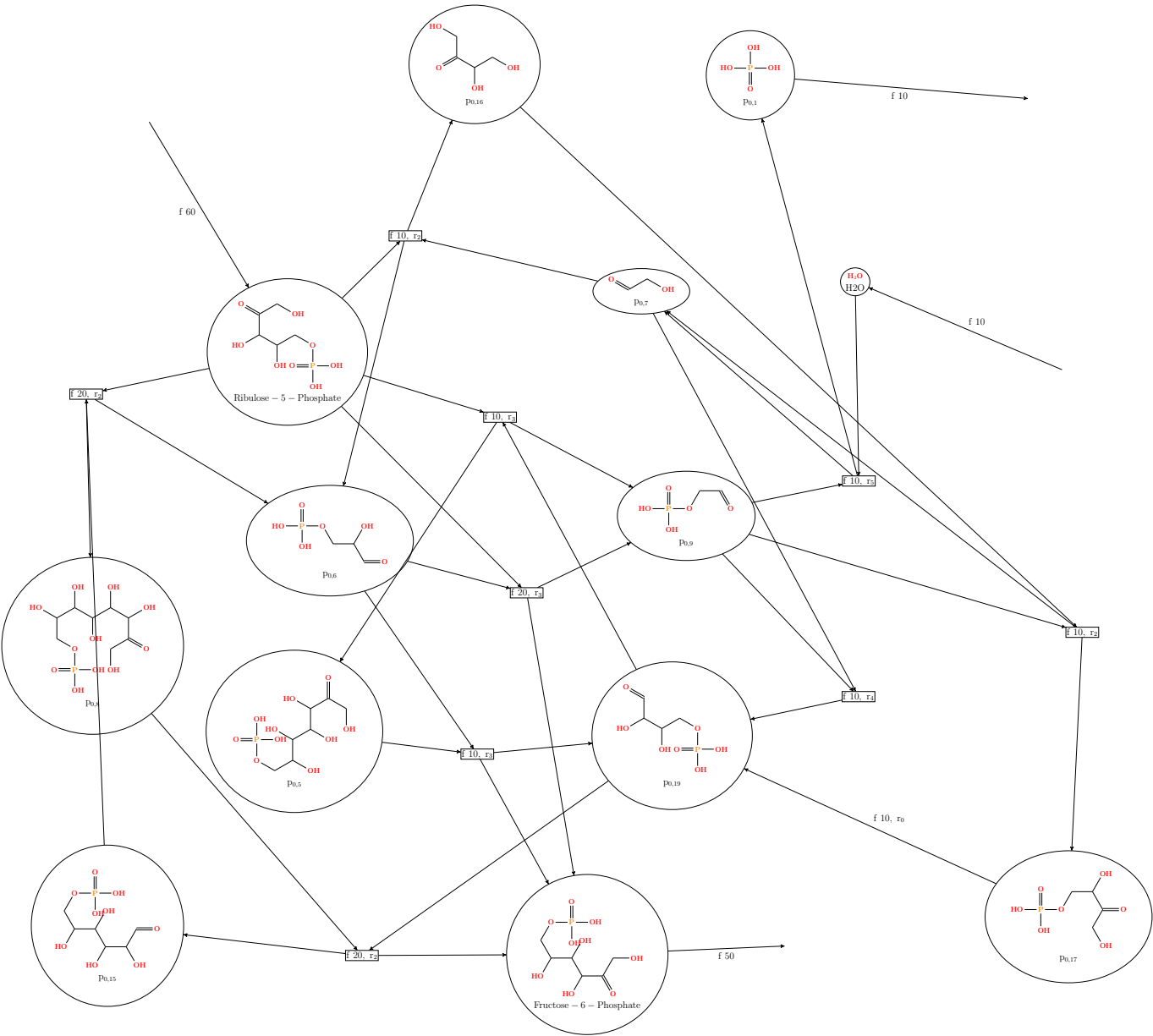
0.70.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



0.71 Enzymes: [Aldose-Ketose -textgreater(1), Transaldolase(3), Phophohydrolase(5)]

0.72 Flow Solutions, id 35

0.72.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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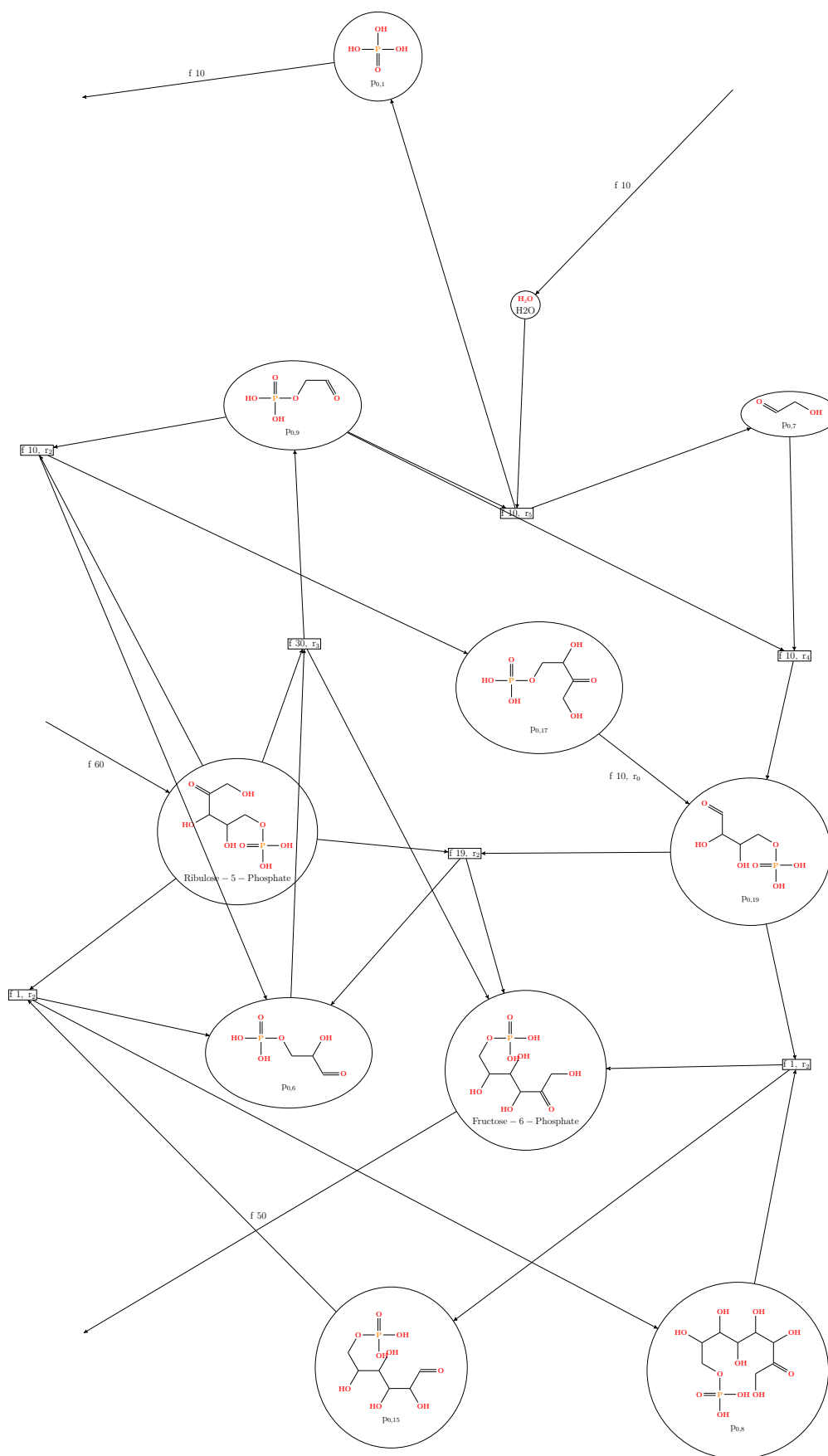
Fructose-6-Phosphate	0	50
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H2O	10	0
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Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/199_dg_0_11100_f_35_0_filt

0.73 Enzymes: [Aldose-Ketose -textgreater(1), Aldolase(4), Phophohydrolase(5)]

0.74 Flow Solutions, id 36

0.74.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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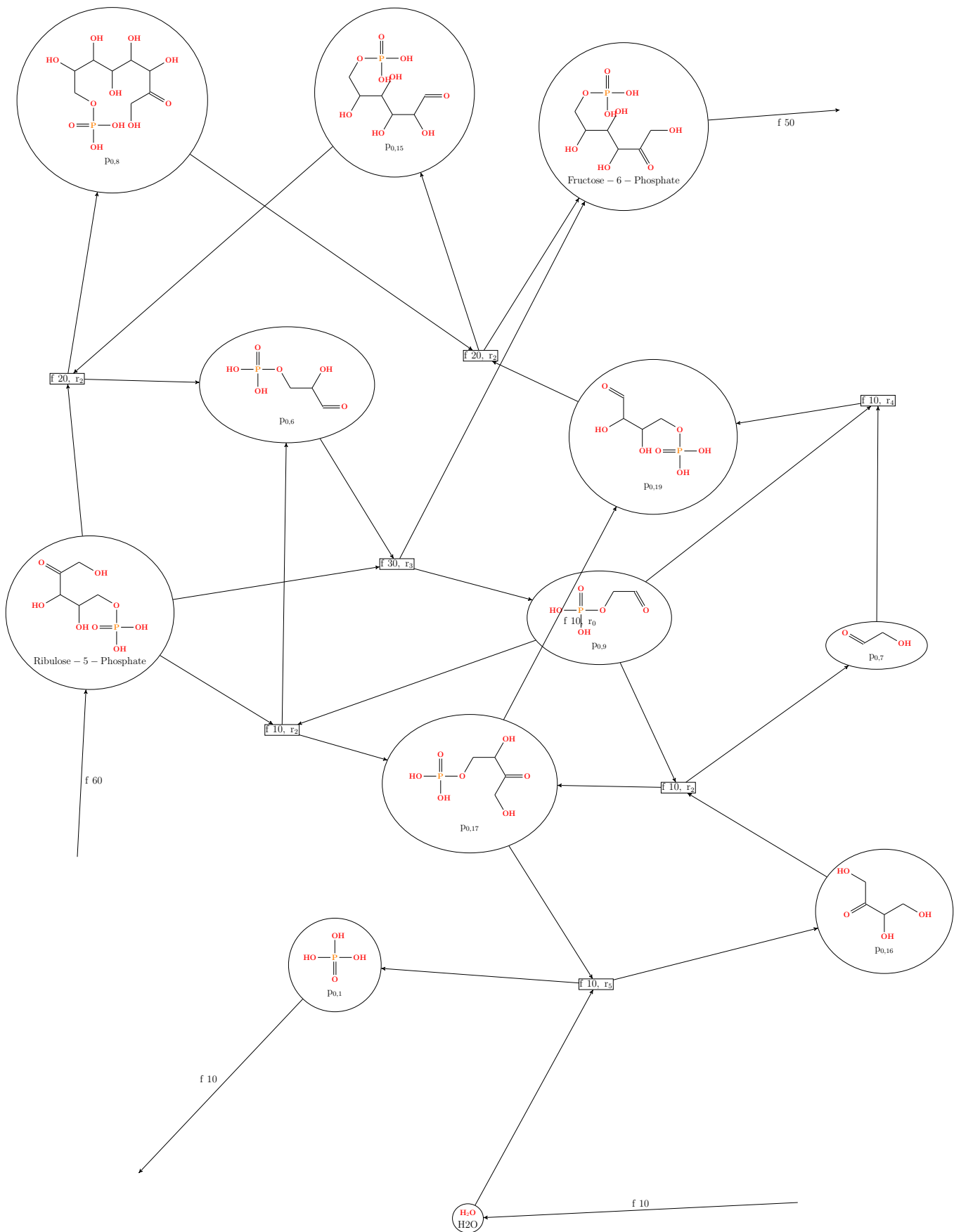
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
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Filtered Graph



File: out/203_dg_0_11100_f_36_0_filt

0.75 Enzymes: [Transketolase(2), Transaldolase(3), Aldolase(4)]

0.76 Flow Solutions, id 37

0.76.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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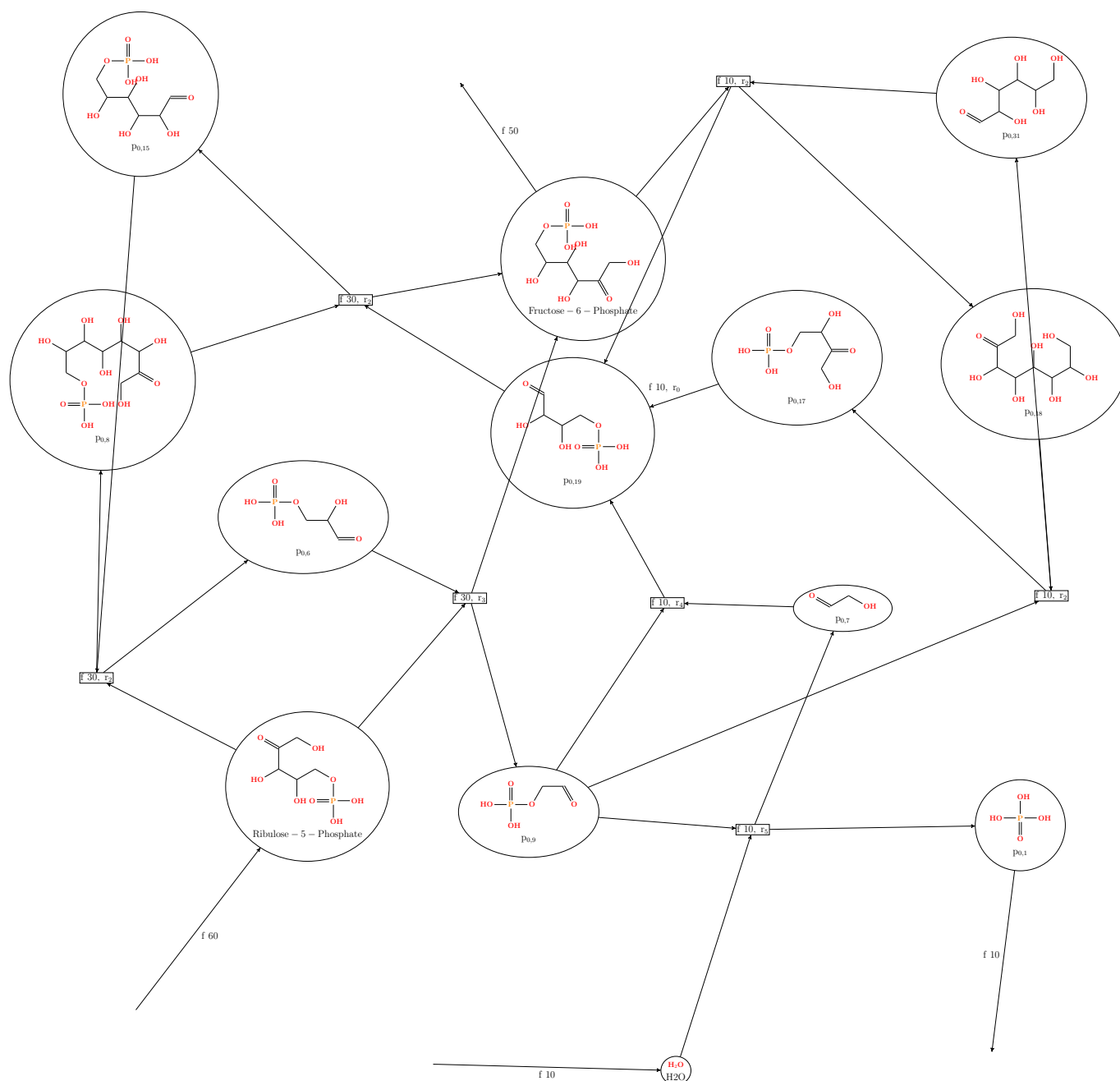
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/207_dg_0_11100_f_37_0_filt

0.77 Enzymes: [Transketolase(2), Transaldolase(3), Phosphohydrolase(5)]

0.78 Flow Solutions, id 38

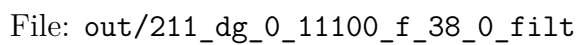
0.78.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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Filtered Graph



0.83 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose
-textgreater(1), Transketolase(2), Transaldolase(3)]

0.84 Flow Solutions, id 41

0.84.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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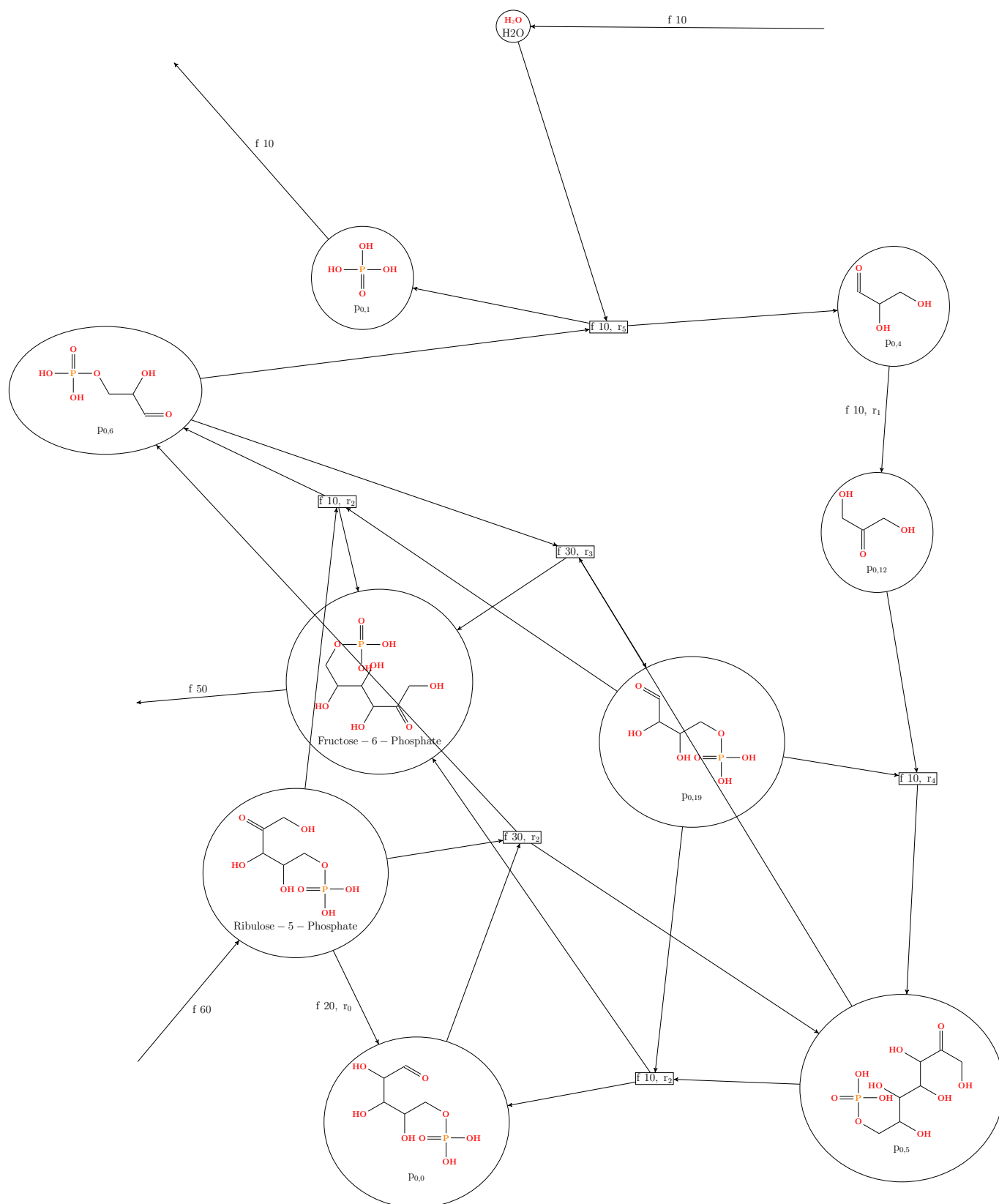
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/223_dg_0_11100_f_41_0_filt

0.87 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose -
textgreater(1), Transketolase(2), Phophohydrolase(5)]

0.88 Flow Solutions, id 43

0.88.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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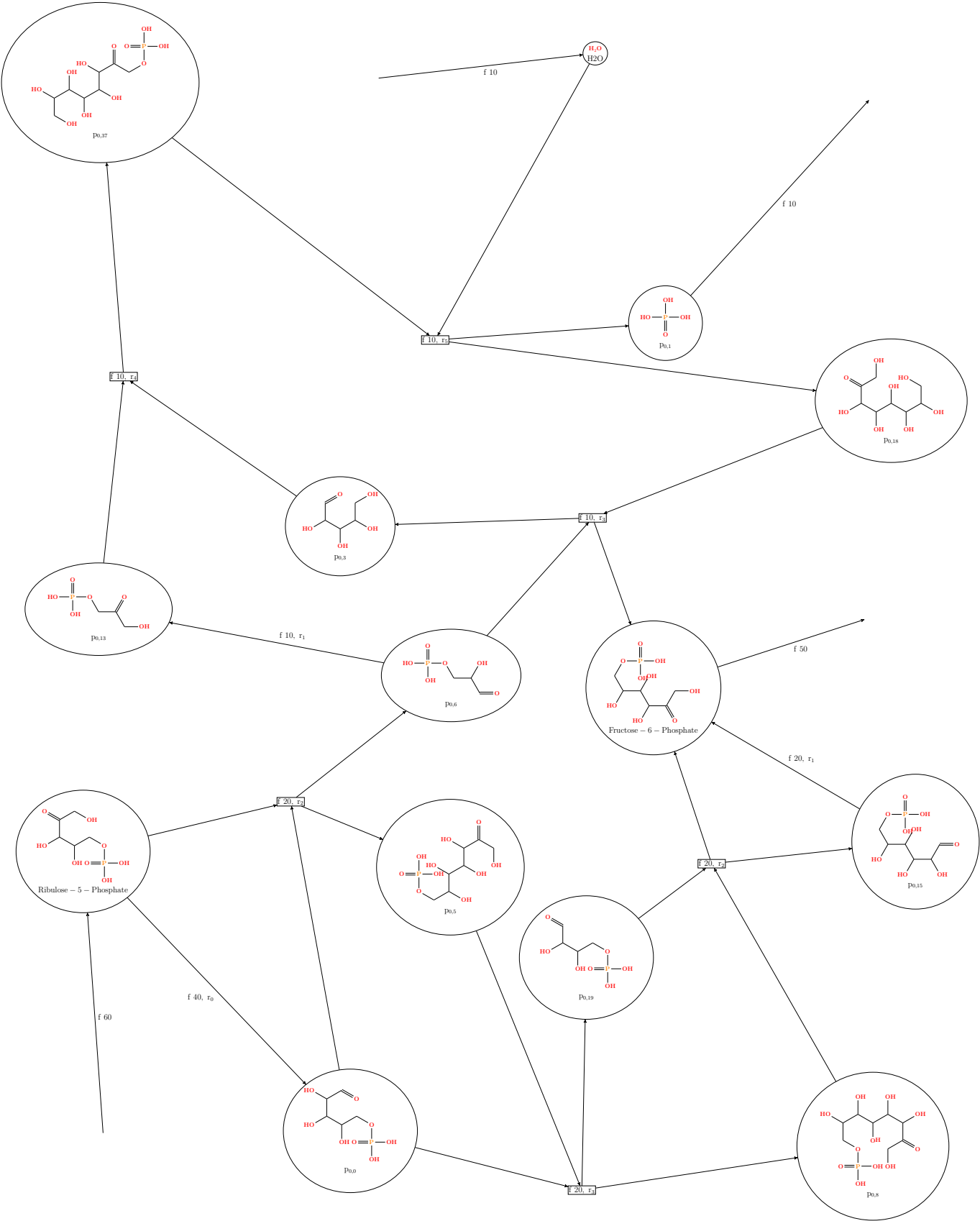
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
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Filtered Graph



File: out/233_dg_0_11100_f_43_0_filt

0.89 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose
-textgreater(1), Transaldolase(3), Aldolase(4)]

0.90 Flow Solutions, id 44

0.90.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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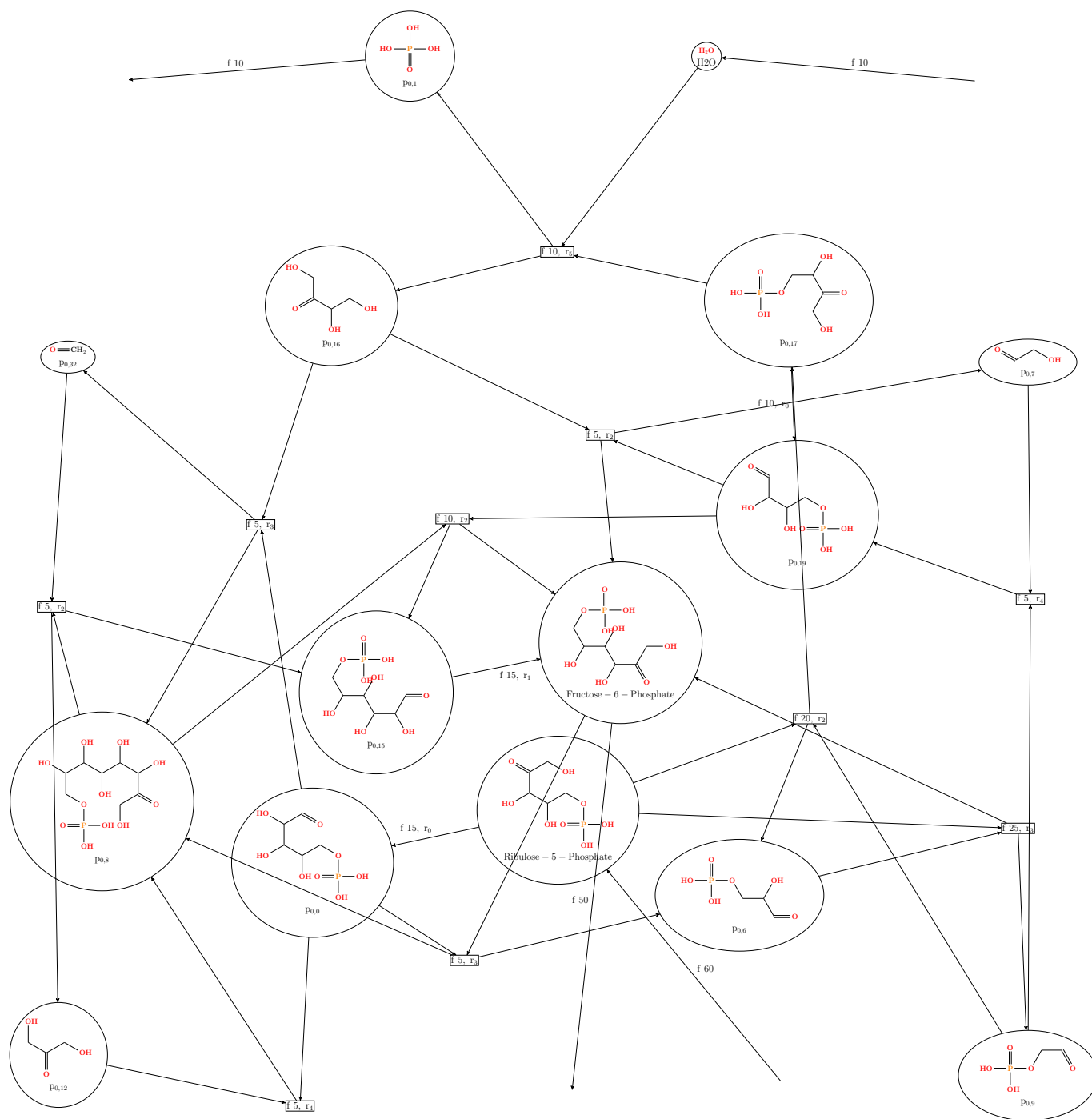
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
---------	---	----

Filtered Graph



File: out/237_dg_0_11100_f_44_0_filt

0.91 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose - textgreater(1), Transaldolase(3), Phophohydrolase(5)]

0.92 Flow Solutions, id 45

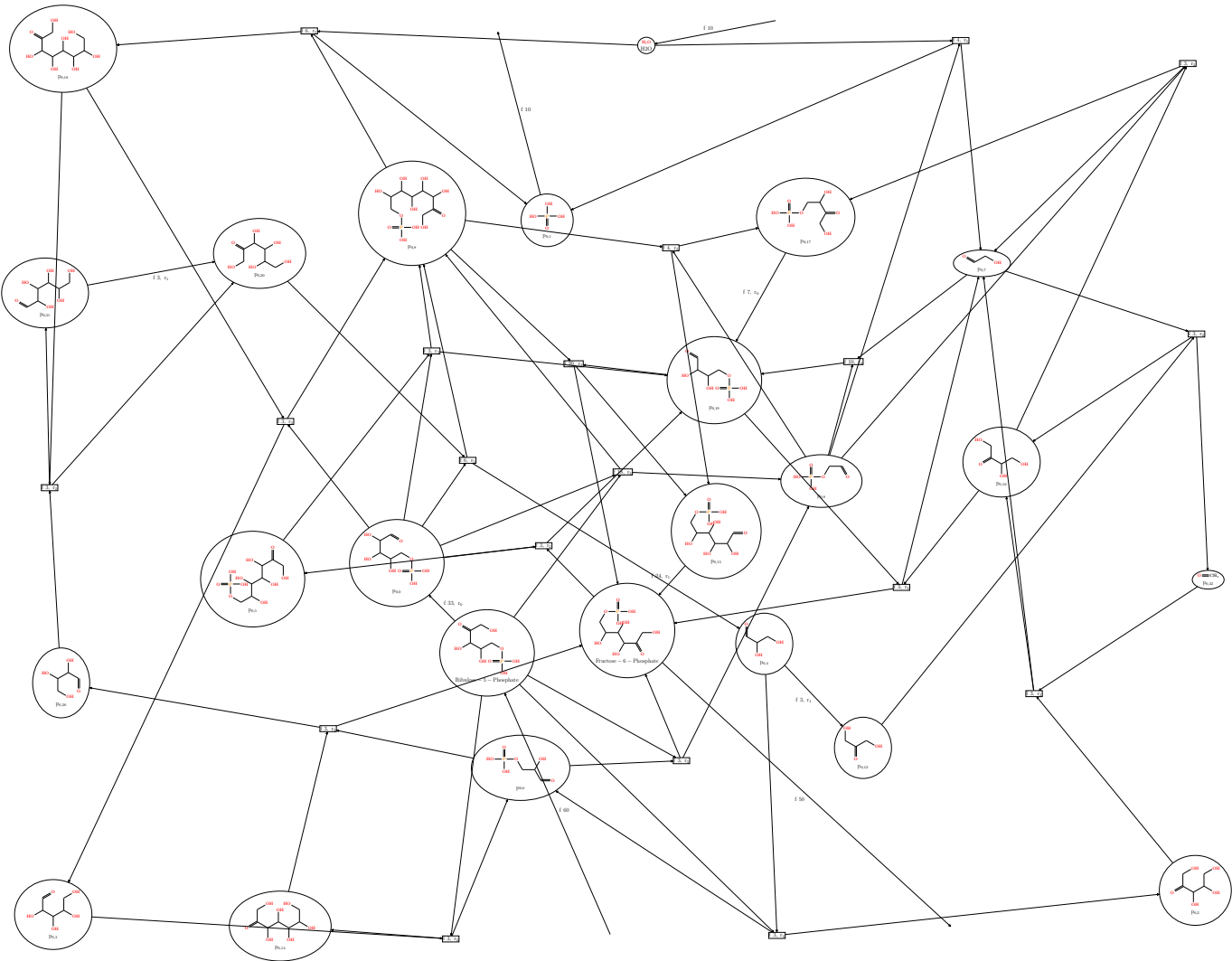
0.92.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/241_dg_0_11100_f_45_0_filt

0.93 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose-textgreater(1), Aldolase(4), Phophohydrolase(5)]

0.94 Flow Solutions, id 46

0.94.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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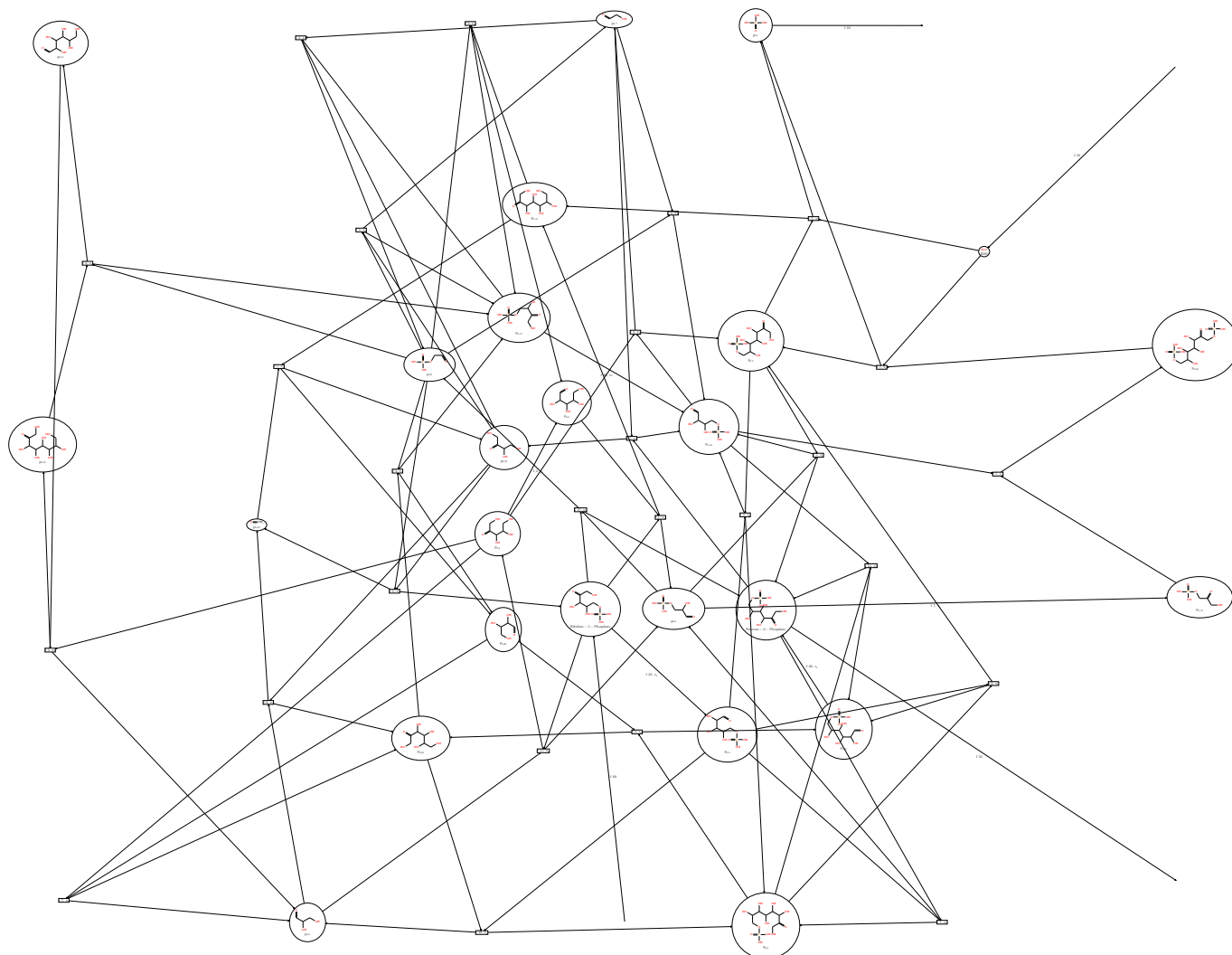
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/245_dg_0_11100_f_46_0_filt

0.95 Enzymes: [Aldose-Ketose textless-(0), Transketolase(2), Transaldolase(3), Aldolase(4)]

0.96 Flow Solutions, id 47

0.96.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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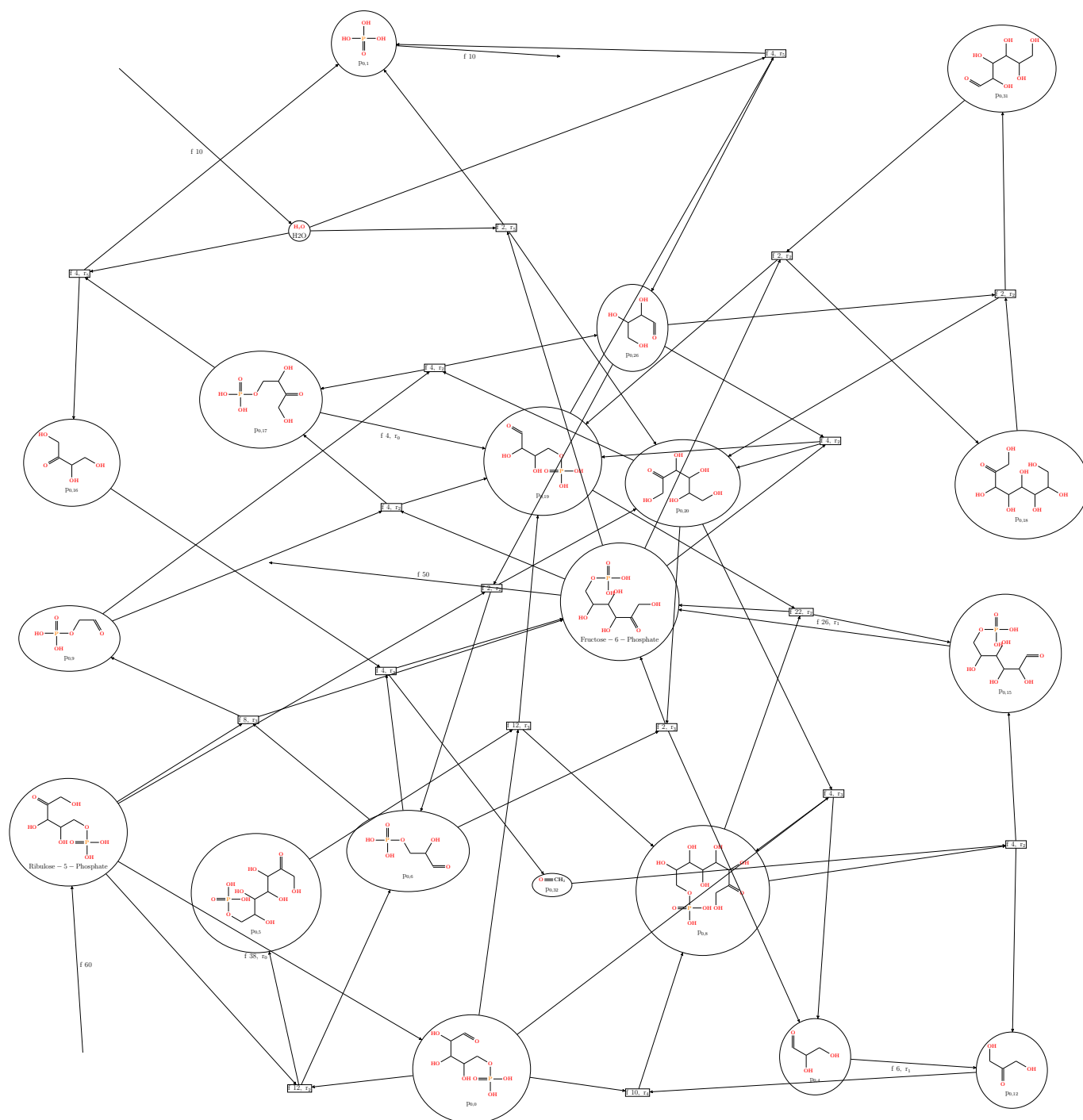
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
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Filtered Graph



File: out/249_dg_0_11100_f_47_0_filt

0.97 Enzymes: [Aldose-Ketose textless-(0), Transketolase(2), Transaldolase(3), Phophohydrolase(5)]

0.98 Flow Solutions, id 48

0.98.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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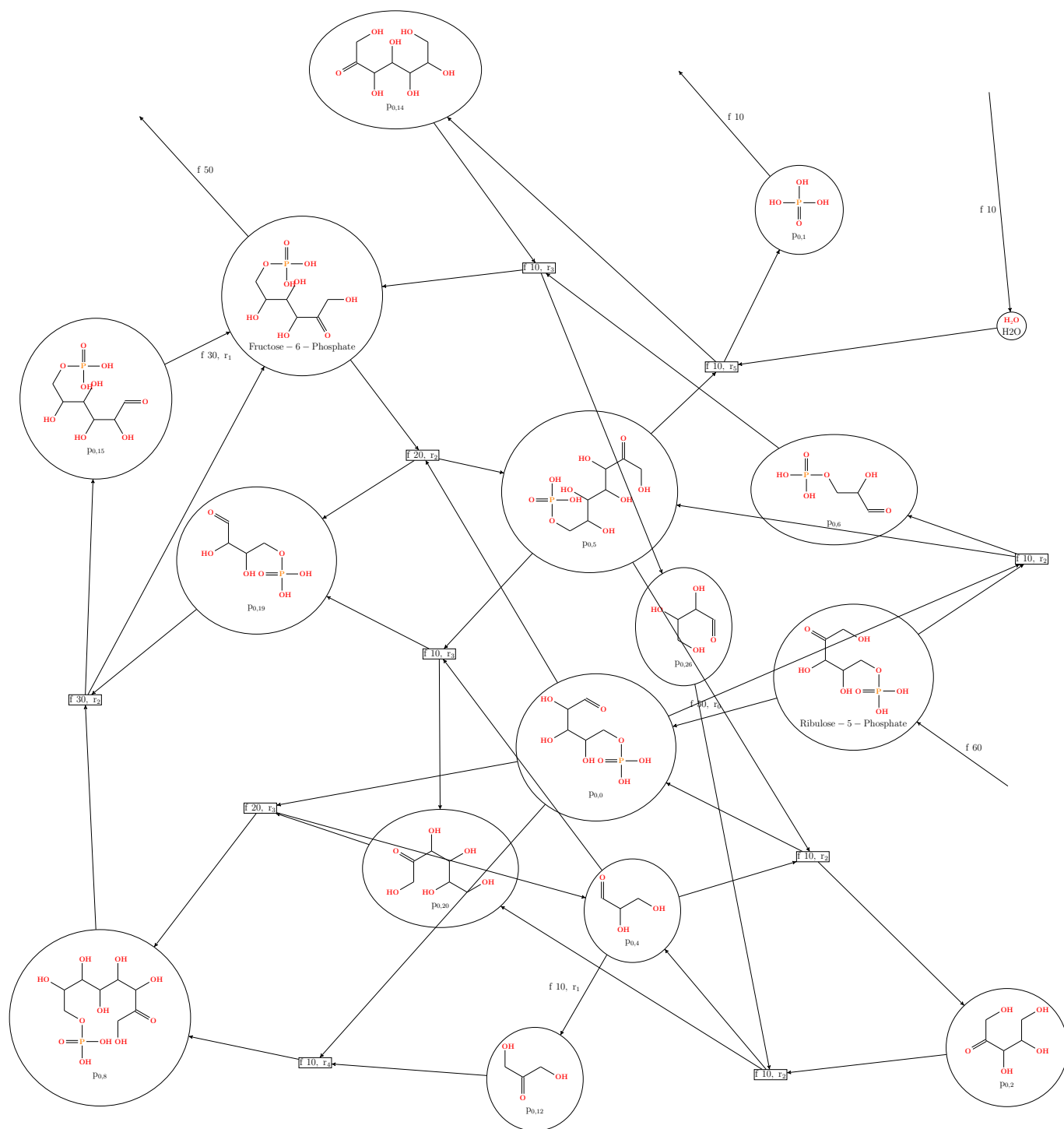
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
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Filtered Graph



File: out/253_dg_0_11100_f_48_0_filt

0.101 Enzymes: [Aldose-Ketose textless-(0), Transaldolase(3), Aldolase(4), Phophohydrolase(5)]

0.102 Flow Solutions, id 50

0.102.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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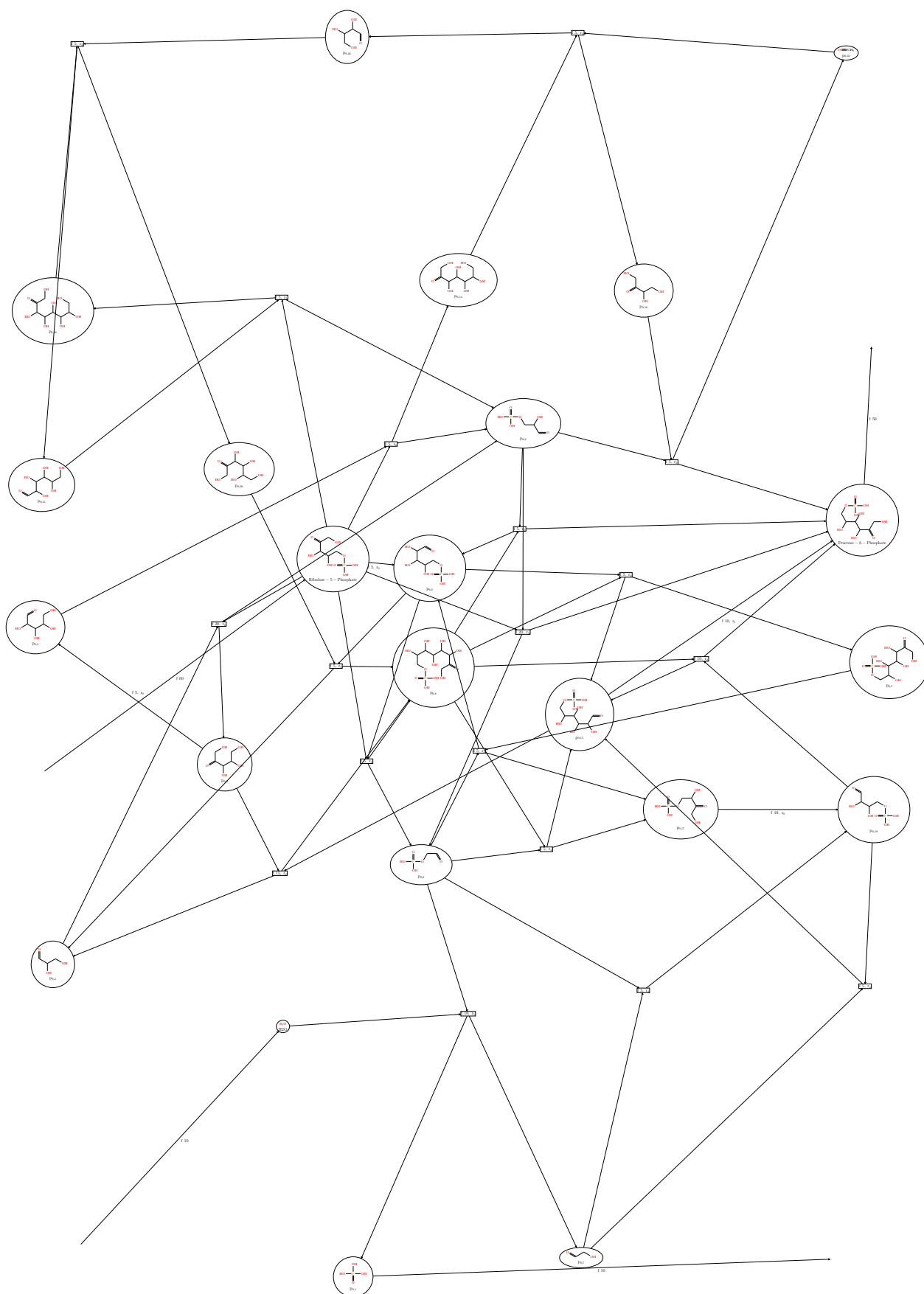
Fructose-6-Phosphate	0	50
----------------------	---	----

H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
---------	---	----

Filtered Graph



File: out/261_dg_0_11100_f_50_0_filt

0.103 Enzymes: [Aldose-Ketose -textgreater(1), Transketolase(2), Transaldolase(3), Aldolase(4)]

0.104 Flow Solutions, id 51

0.104.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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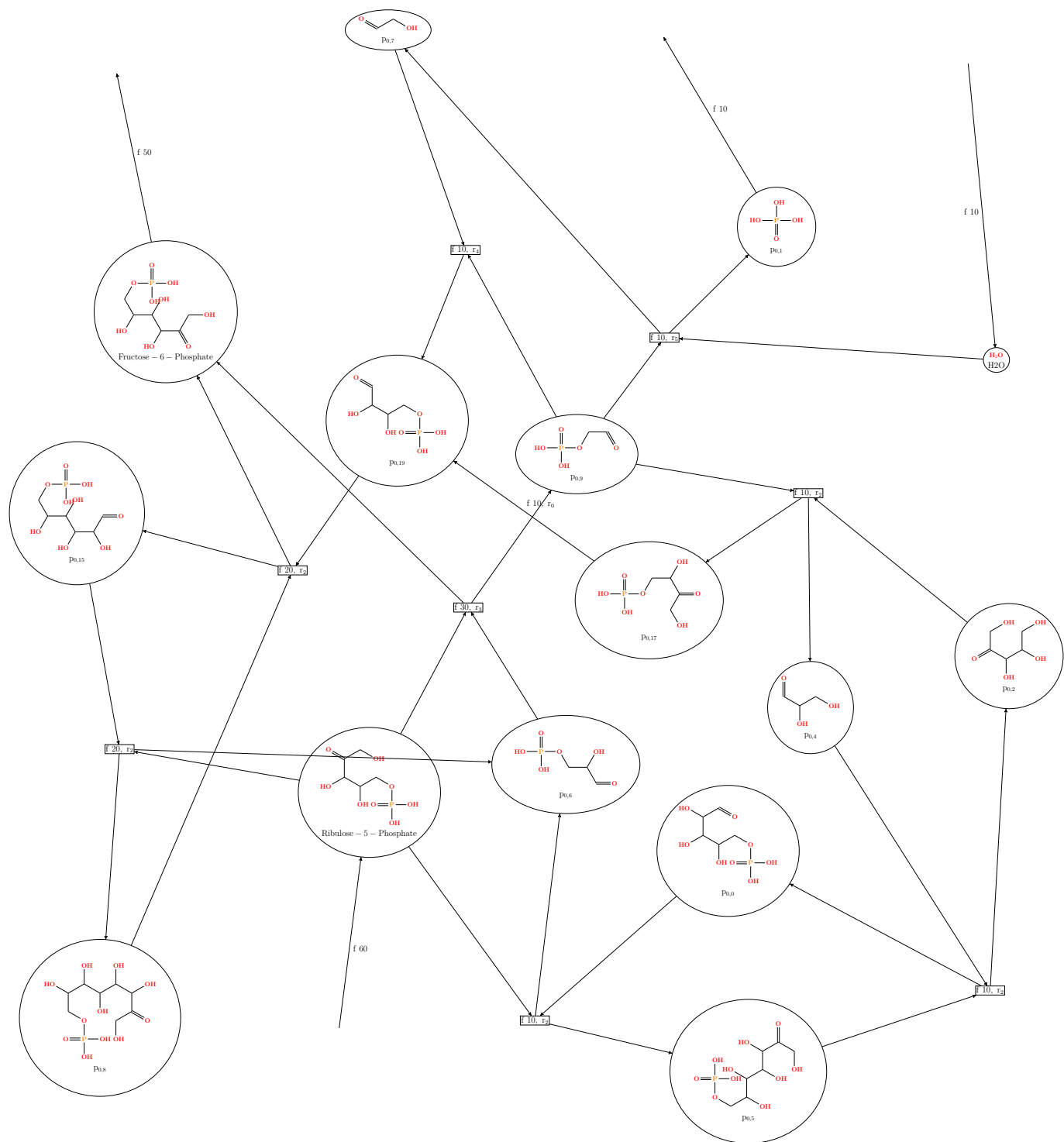
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
---------	---	----

Filtered Graph



File: out/265_dg_0_11100_f_51_0_filt

0.105 Enzymes: [Aldose-Ketose -textgreater(1), Transketolase(2), Transaldolase(3), Phophohydrolase(5)]

0.106 Flow Solutions, id 52

0.106.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

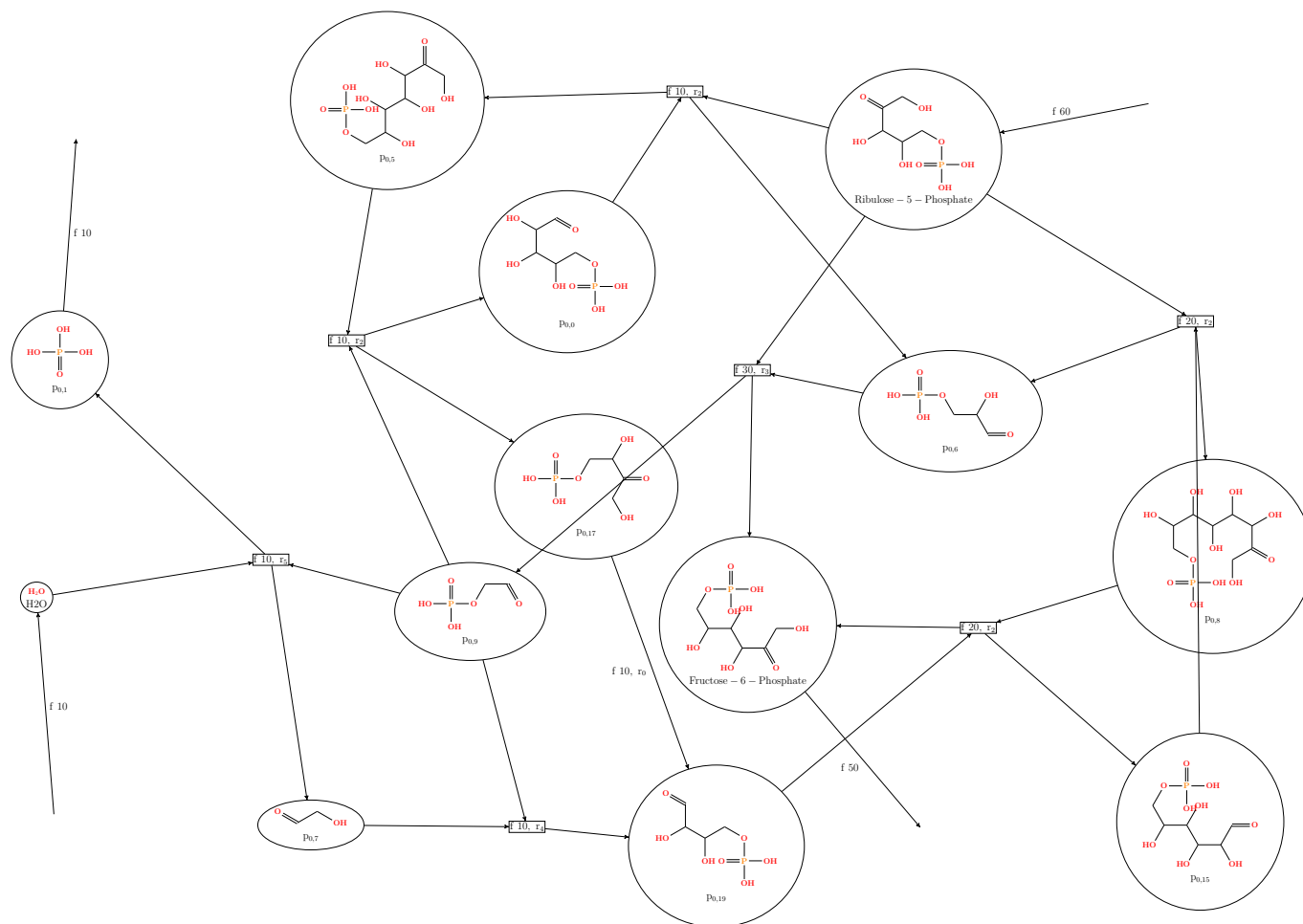
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/269_dg_0_11100_f_52_0_filt

0.108 Flow Solutions, id 53

Overall Data

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
$p \in \{0,1\}$	0	10

This diagram illustrates the metabolic pathways of glycolysis and gluconeogenesis, showing the chemical structures of various intermediates and their interconversions. The intermediates are represented by circles containing their chemical structures and labels (e.g., P_{0,1}, P_{0,5}, P_{0,9}, P_{0,15}, P_{0,17}, P_{0,19}, P_{0,20}, P_{0,21}, P_{0,22}, P_{0,23}, P_{0,24}, P_{0,25}, P_{0,26}, P_{0,27}, P_{0,28}, P_{0,29}, P_{0,30}, P_{0,31}, P_{0,32}, P_{0,33}, P_{0,34}, P_{0,35}, P_{0,36}, P_{0,37}, P_{0,38}, P_{0,39}, P_{0,40}, P_{0,41}, P_{0,42}, P_{0,43}, P_{0,44}, P_{0,45}, P_{0,46}, P_{0,47}, P_{0,48}, P_{0,49}, P_{0,50}, P_{0,51}, P_{0,52}, P_{0,53}, P_{0,54}, P_{0,55}, P_{0,56}, P_{0,57}, P_{0,58}, P_{0,59}, P_{0,60}, P_{0,61}, P_{0,62}, P_{0,63}, P_{0,64}, P_{0,65}, P_{0,66}, P_{0,67}, P_{0,68}, P_{0,69}, P_{0,70}, P_{0,71}, P_{0,72}, P_{0,73}, P_{0,74}, P_{0,75}, P_{0,76}, P_{0,77}, P_{0,78}, P_{0,79}, P_{0,80}, P_{0,81}, P_{0,82}, P_{0,83}, P_{0,84}, P_{0,85}, P_{0,86}, P_{0,87}, P_{0,88}, P_{0,89}, P_{0,90}, P_{0,91}, P_{0,92}, P_{0,93}, P_{0,94}, P_{0,95}, P_{0,96}, P_{0,97}, P_{0,98}, P_{0,99}, P_{0,100}, P_{0,101}, P_{0,102}, P_{0,103}, P_{0,104}, P_{0,105}, P_{0,106}, P_{0,107}, P_{0,108}, P_{0,109}, P_{0,110}, P_{0,111}, P_{0,112}, P_{0,113}, P_{0,114}, P_{0,115}, P_{0,116}, P_{0,117}, P_{0,118}, P_{0,119}, P_{0,120}, P_{0,121}, P_{0,122}, P_{0,123}, P_{0,124}, P_{0,125}, P_{0,126}, P_{0,127}, P_{0,128}, P_{0,129}, P_{0,130}, P_{0,131}, P_{0,132}, P_{0,133}, P_{0,134}, P_{0,135}, P_{0,136}, P_{0,137}, P_{0,138}, P_{0,139}, P_{0,140}, P_{0,141}, P_{0,142}, P_{0,143}, P_{0,144}, P_{0,145}, P_{0,146}, P_{0,147}, P_{0,148}, P_{0,149}, P_{0,150}, P_{0,151}, P_{0,152}, P_{0,153}, P_{0,154}, P_{0,155}, P_{0,156}, P_{0,157}, P_{0,158}, P_{0,159}, P_{0,160}, P_{0,161}, P_{0,162}, P_{0,163}, P_{0,164}, P_{0,165}, P_{0,166}, P_{0,167}, P_{0,168}, P_{0,169}, P_{0,170}, P_{0,171}, P_{0,172}, P_{0,173}, P_{0,174}, P_{0,175}, P_{0,176}, P_{0,177}, P_{0,178}, P_{0,179}, P_{0,180}, P_{0,181}, P_{0,182}, P_{0,183}, P_{0,184}, P_{0,185}, P_{0,186}, P_{0,187}, P_{0,188}, P_{0,189}, P_{0,190}, P_{0,191}, P_{0,192}, P_{0,193}, P_{0,194}, P_{0,195}, P_{0,196}, P_{0,197}, P_{0,198}, P_{0,199}, P_{0,200}, P_{0,201}, P_{0,202}, P_{0,203}, P_{0,204}, P_{0,205}, P_{0,206}, P_{0,207}, P_{0,208}, P_{0,209}, P_{0,210}, P_{0,211}, P_{0,212}, P_{0,213}, P_{0,214}, P_{0,215}, P_{0,216}, P_{0,217}, P_{0,218}, P_{0,219}, P_{0,220}, P_{0,221}, P_{0,222}, P_{0,223}, P_{0,224}, P_{0,225}, P_{0,226}, P_{0,227}, P_{0,228}, P_{0,229}, P_{0,230}, P_{0,231}, P_{0,232}, P_{0,233}, P_{0,234}, P_{0,235}, P_{0,236}, P_{0,237}, P_{0,238}, P_{0,239}, P_{0,240}, P_{0,241}, P_{0,242}, P_{0,243}, P_{0,244}, P_{0,245}, P_{0,246}, P_{0,247}, P_{0,248}, P_{0,249}, P_{0,250}, P_{0,251}, P_{0,252}, P_{0,253}, P_{0,254}, P_{0,255}, P_{0,256}, P_{0,257}, P_{0,258}, P_{0,259}, P_{0,260}, P_{0,261}, P_{0,262}, P_{0,263}, P_{0,264}, P_{0,265}, P_{0,266}, P_{0,267}, P_{0,268}, P_{0,269}, P_{0,270}, P_{0,271}, P_{0,272}, P_{0,273}, P_{0,274}, P_{0,275}, P_{0,276}, P_{0,277}, P_{0,278}, P_{0,279}, P_{0,280}, P_{0,281}, P_{0,282}, P_{0,283}, P_{0,284}, P_{0,285}, P_{0,286}, P_{0,287}, P_{0,288}, P_{0,289}, P_{0,290}, P_{0,291}, P_{0,292}, P_{0,293}, P_{0,294}, P_{0,295}, P_{0,296}, P_{0,297}, P_{0,298}, P_{0,299}, P_{0,300}, P_{0,301}, P_{0,302}, P_{0,303}, P_{0,304}, P_{0,305}, P_{0,306}, P_{0,307}, P_{0,308}, P_{0,309}, P_{0,310}, P_{0,311}, P_{0,312}, P_{0,313}, P_{0,314}, P_{0,315}, P_{0,316}, P_{0,317}, P_{0,318}, P_{0,319}, P_{0,320}, P_{0,321}, P_{0,322}, P_{0,323}, P_{0,324}, P_{0,325}, P_{0,326}, P_{0,327}, P_{0,328}, P_{0,329}, P_{0,330}, P_{0,331}, P_{0,332}, P_{0,333}, P_{0,334}, P_{0,335}, P_{0,336}, P_{0,337}, P_{0,338}, P_{0,339}, P_{0,340}, P_{0,341}, P_{0,342}, P_{0,343}, P_{0,344}, P_{0,345}, P_{0,346}, P_{0,347}, P_{0,348}, P_{0,349}, P_{0,350}, P_{0,351}, P_{0,352}, P_{0,353}, P_{0,354}, P_{0,355}, P_{0,}

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**0.109 Enzymes: [Aldose-Ketose -textgreater(1), Transaldolase(3)
Aldolase(4), Phophohydrolase(5)]**

0.110 Flow Solutions, id 54

0.110.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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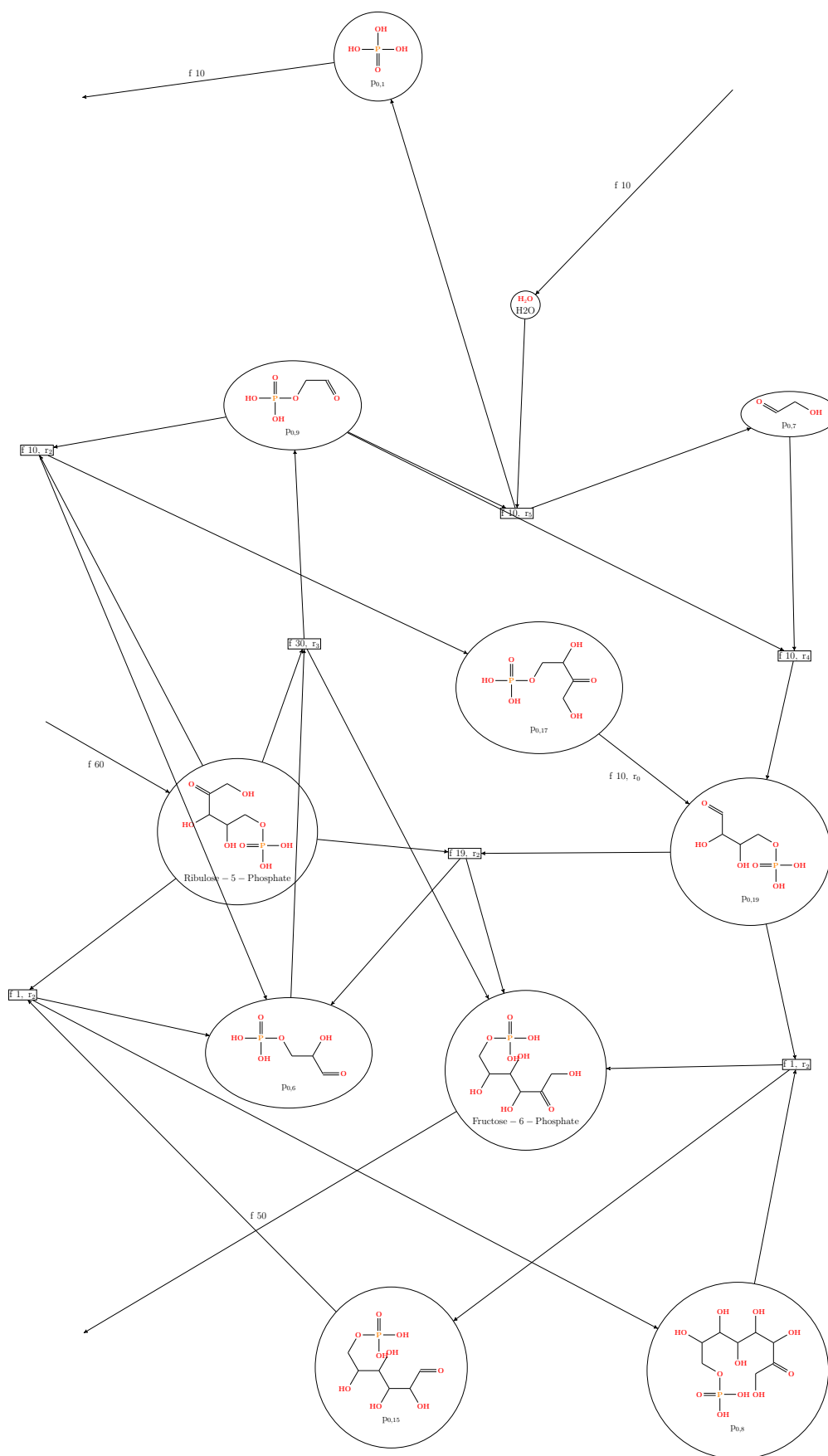
Fructose-6-Phosphate	0	50
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H2O	10	0
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Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
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Filtered Graph



File: out/277_dg_0_11100_f_54_0_filt

0.111 Enzymes: [Transketolase(2), Transaldolase(3), Aldolase(4) Phosphohydrolase(5)]

0.112 Flow Solutions, id 55

0.112.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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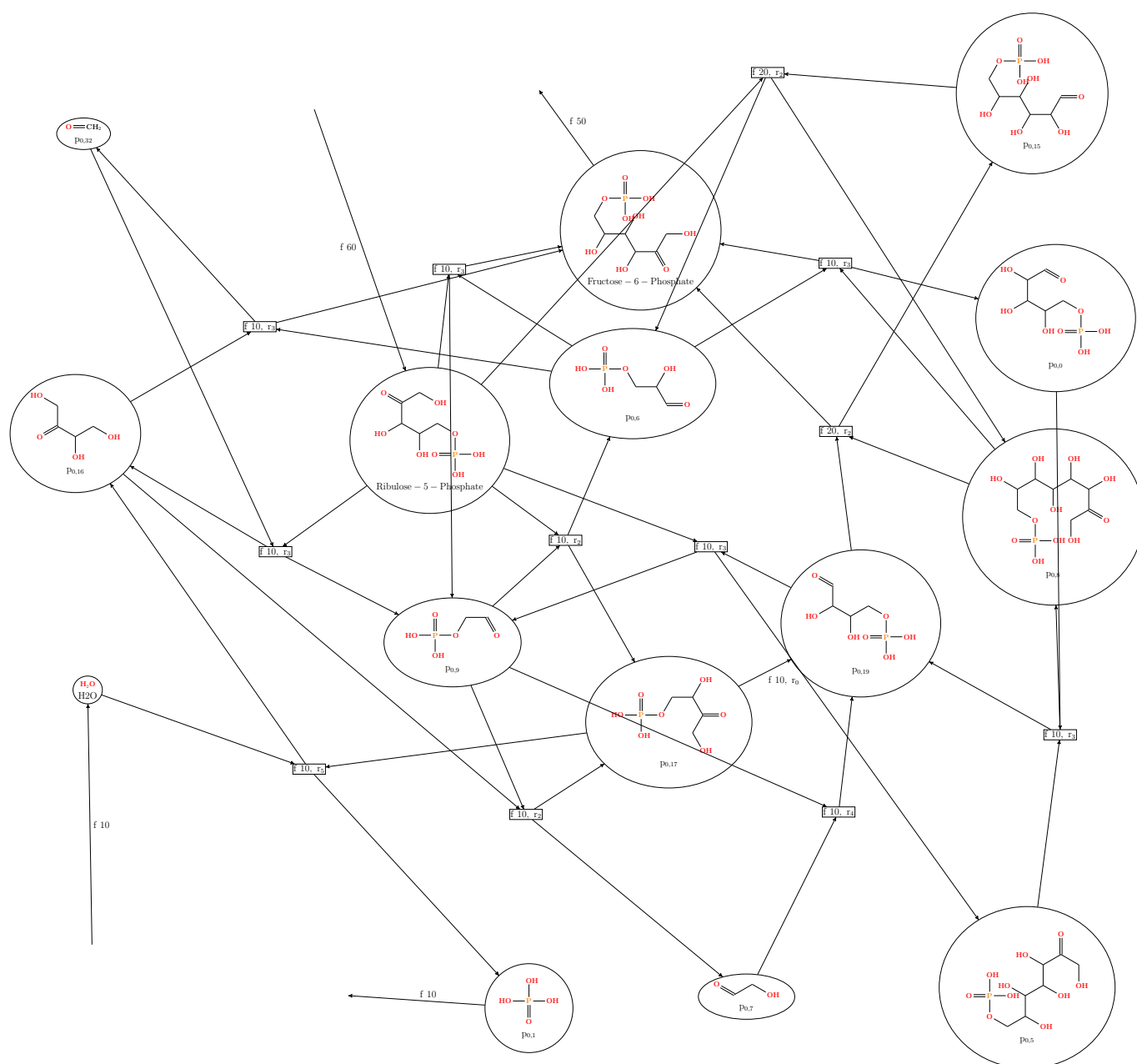
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/281_dg_0_11100_f_55_0_filt

0.113 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose-textgreater(1), Transketolase(2), Transaldolase(3), Aldolase(4)]

0.114 Flow Solutions, id 56

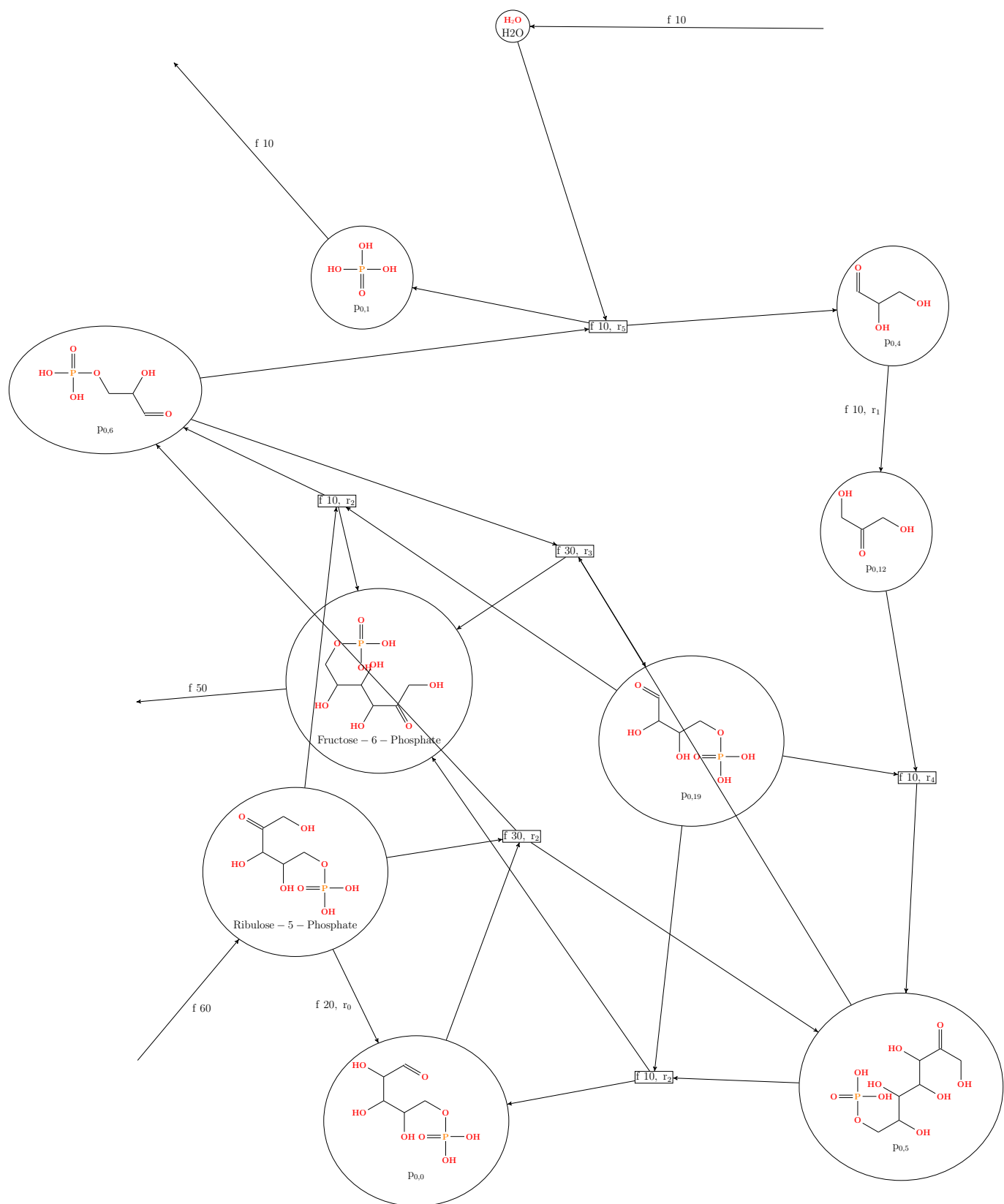
0.114.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/285_dg_0_11100_f_56_0_filt

0.115 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose
-textgreater(1), Transketolase(2), Transaldolase(3), Phoph
hydrolase(5)]

0.116 Flow Solutions, id 57

0.116.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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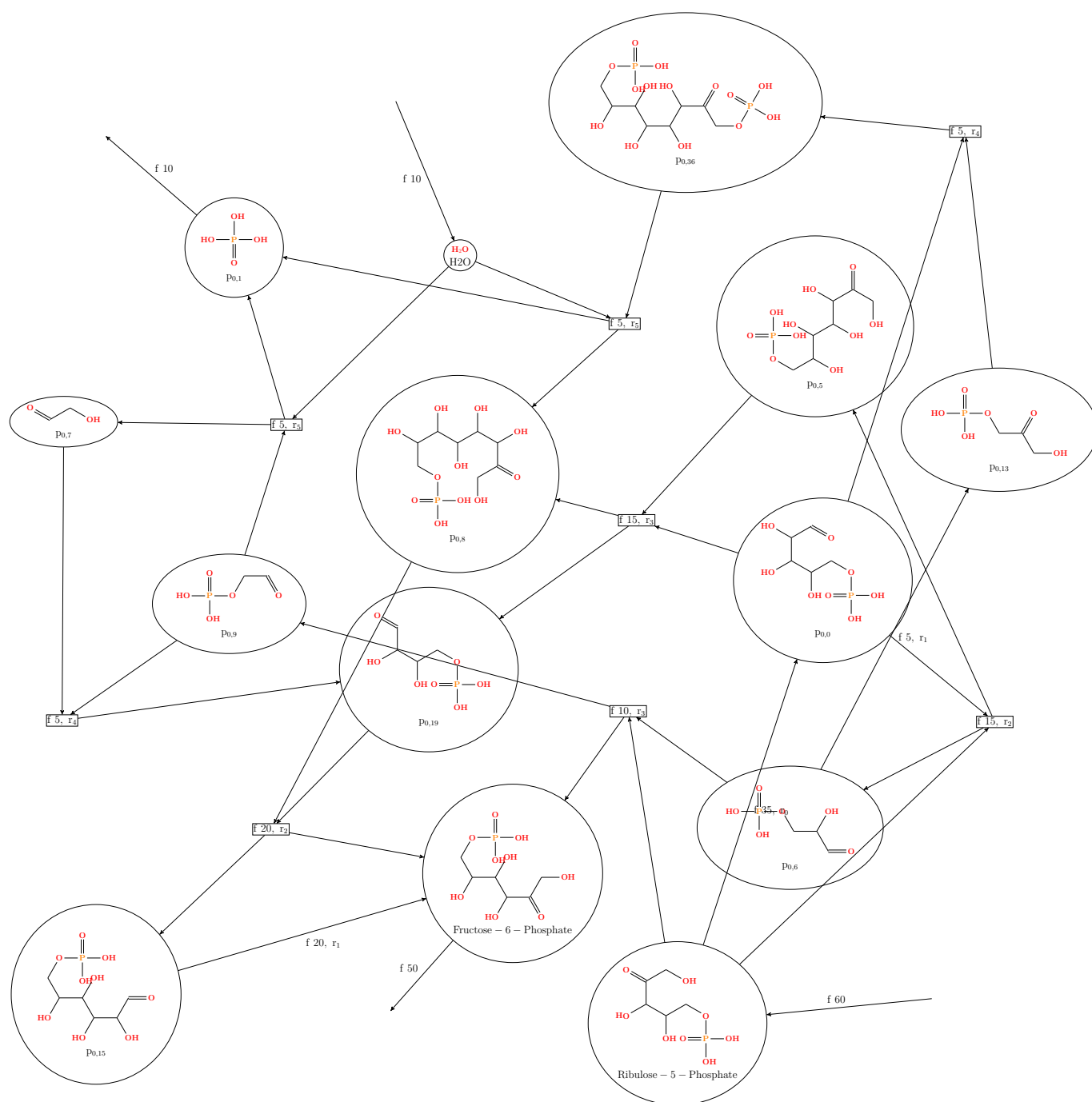
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
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p_{0,1}	0	10
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Filtered Graph



File: out/289_dg_0_11100_f_57_0_filt

0.117 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose-textgreater(1), Transketolase(2), Aldolase(4), Phophohydrolase(5)]

0.118 Flow Solutions, id 58

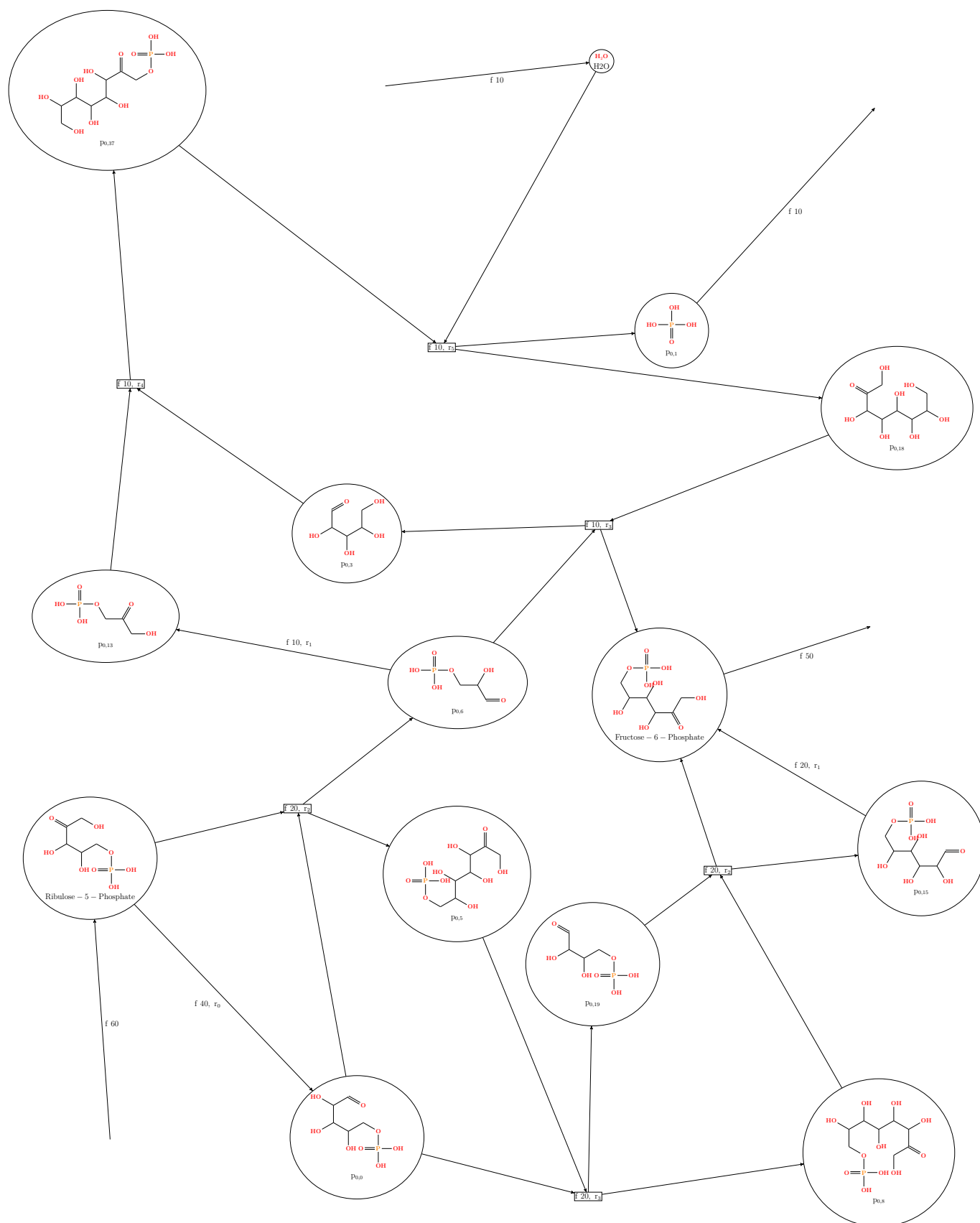
0.118.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
Fructose-6-Phosphate	0	50
H2O	10	0
Ribulose-5-Phosphate	60	0
p_{0,1}	0	10

Filtered Graph



File: out/293_dg_0_11100_f_58_0_filt

0.119 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose-textgreater(1), Transaldolase(3), Aldolase(4), Phophohydrolase(5)]

0.120 Flow Solutions, id 59

0.120.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

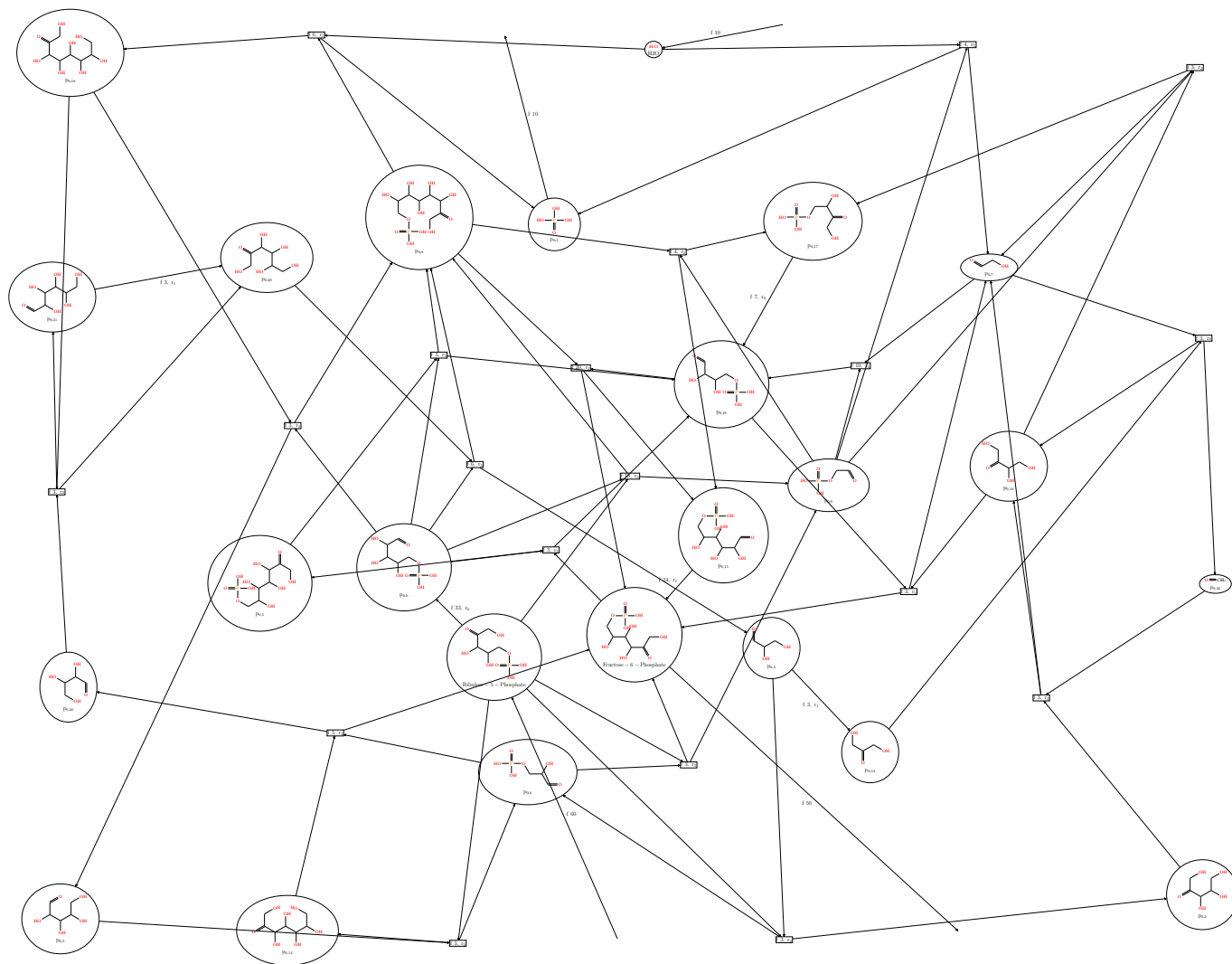
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/297_dg_0_11100_f_59_0_filt

0.121 Enzymes: [Aldose-Ketose textless-(0), Transketolase(2), Transaldolase(3), Aldolase(4), Phophohydrolase(5)]

0.122 Flow Solutions, id 60

0.122.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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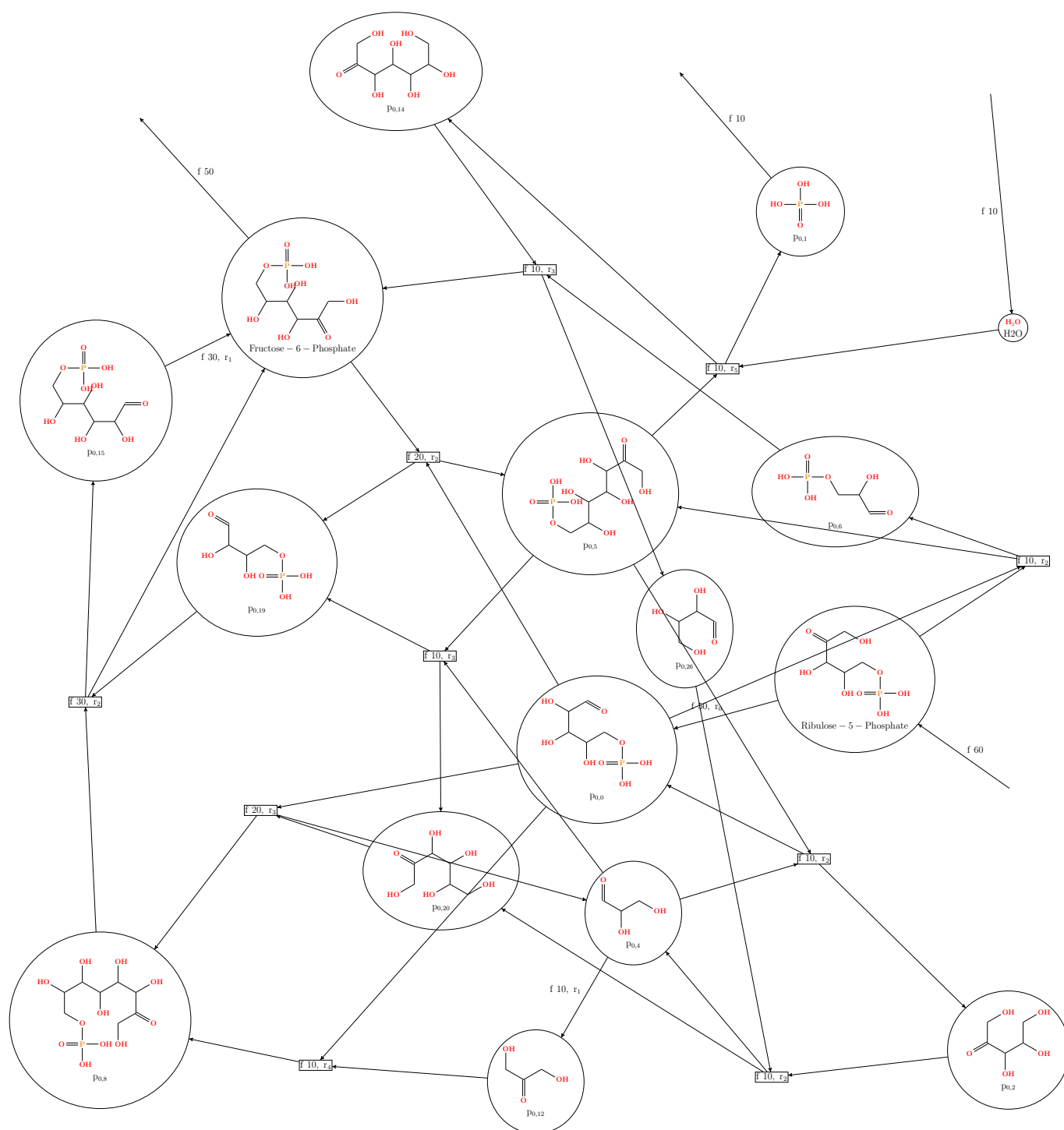
Fructose-6-Phosphate	0	50
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H2O	10	0
-----	----	---

Ribulose-5-Phosphate	60	0
----------------------	----	---

p_{0,1}	0	10
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Filtered Graph



File: out/301_dg_0_11100_f_60_0_filt

0.123 Enzymes: [Aldose-Ketose -textgreater(1), Transketolase(2), Transaldolase(3), Aldolase(4), Phophohydro-lase(5)]

0.124 Flow Solutions, id 61

0.124.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph In Out

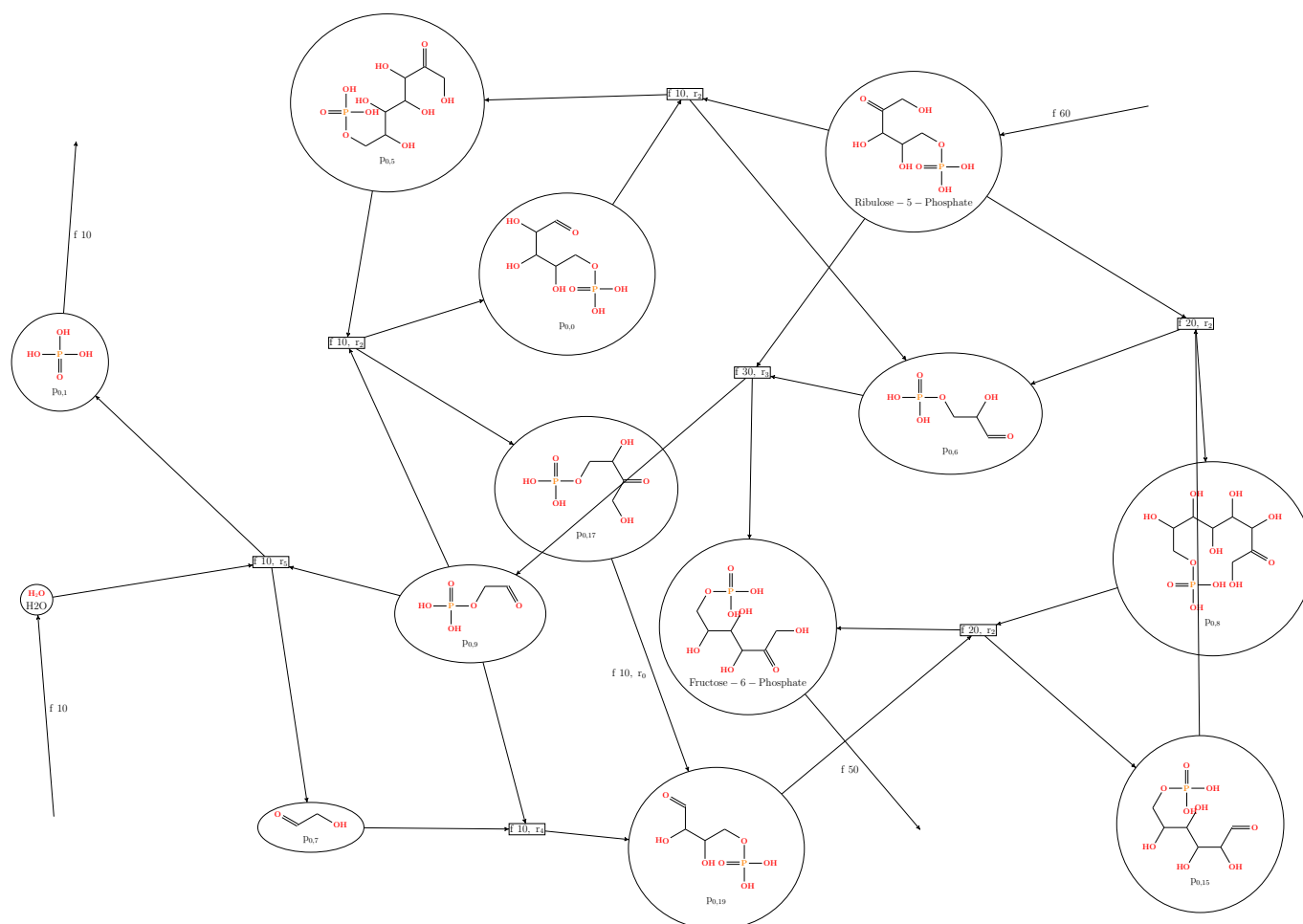
Fructose-6-Phosphate 0 50

H2O 10 0

Ribulose-5-Phosphate 60 0

p_{0,1} 0 10

Filtered Graph



File: out/305_dg_0_11100_f_61_0_filt

0.125 Enzymes: [Aldose-Ketose textless-(0), Aldose-Ketose-textgreater(1), Transketolase(2), Transaldolase(3), Aldolase(4), Phosphohydrolase(5)]

0.126 Flow Solutions, id 62

0.126.1 Solution 0

Overall Data

Objective value (integral): -50

Vertex/Graph	In	Out
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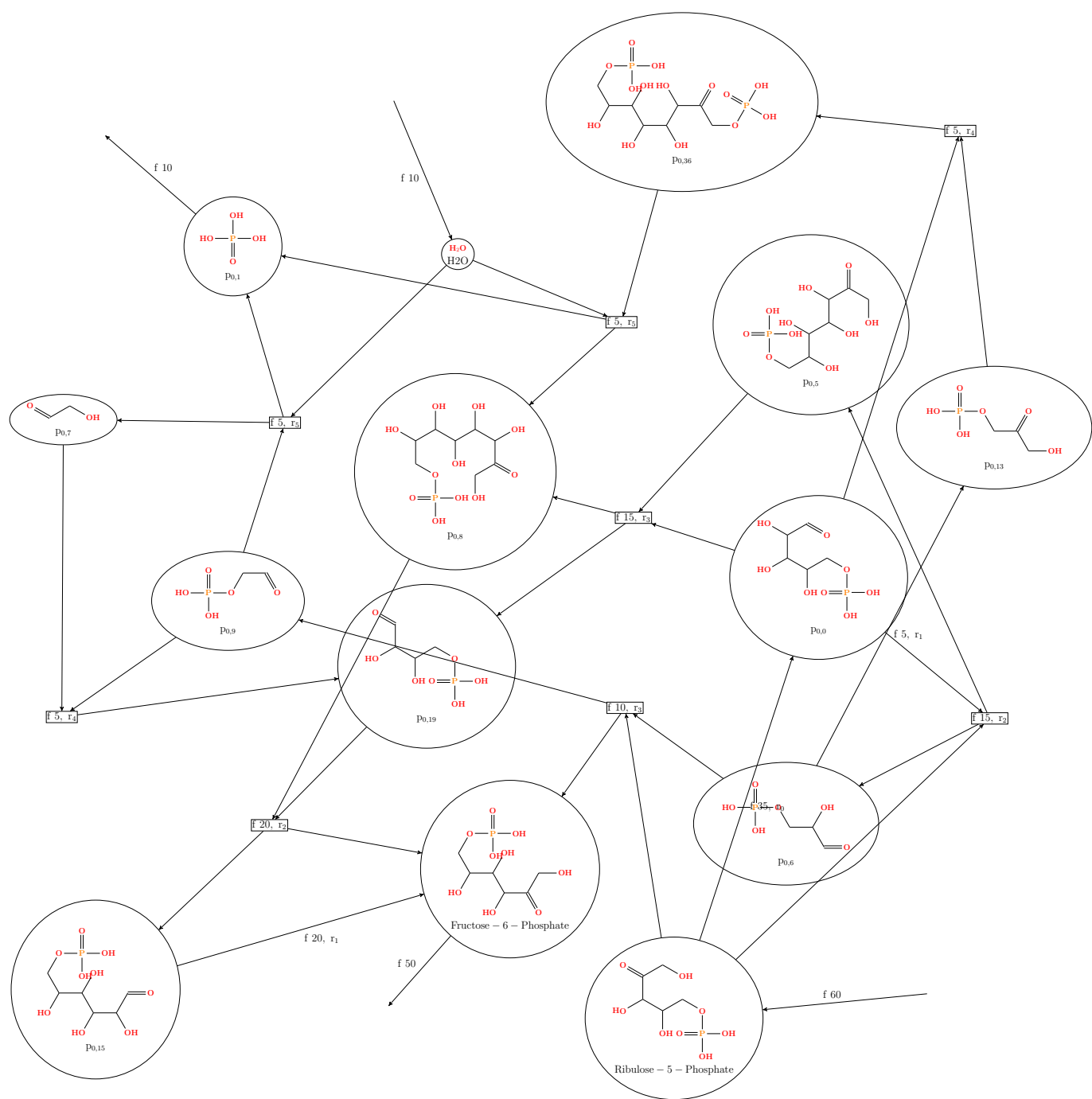
Fructose-6-Phosphate	0	50
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H ₂ O	10	0
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Ribulose-5-Phosphate	60	0
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p _{0,1}	0	10
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Filtered Graph



File: out/309_dg_0_11100_f_62_0_filt