

附件

中江县城供水管网平差分析

（2035 年工况）

一、最不利点校核

1. 平差计算依据和结果

平差类型		
最不利点校核		
2、计算公式		
海曾威廉公式		
$V=0.44 \cdot C \cdot (Re/C)^{0.075} \cdot (g \cdot D \cdot I)^{0.5}$		
$Re = V \cdot D / \nu$		
计算温度：13℃ $\nu = 0.000001$		
3、局部损失系数：1.05		
4、水源点水泵参数：		
无参数		
5、管网平差结果特征参数		
水源点编号	节点流量 (L/s)	节点压力 (m)
JS1	-972.000	478.008
JS63	-486.000	478.042
JS152	-486.000	478.131
JS321	-178.000	476.349
最大管径 (mm) : 1200.00		最小管径 (mm) : 300.00
最大流速 (m/s) : 1.187		最小流速 (m/s) : 0.001
水压最低点 JS21		压力 (m) : 475.16
自由水头最低点 JS61		自由水头 (m) : 28.00

2. 平差计算节点参数

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS1	-972.234	439.520	478.008	38.488
JS2	248.568	440.000	477.874	37.874
JS3	4.681	441.000	477.821	36.821
JS4	8.074	420.000	476.335	56.335
JS5	9.215	417.500	476.191	58.691
JS6	4.392	416.000	476.161	60.161
JS7	4.110	415.000	476.159	61.159
JS8	8.348	415.500	476.159	60.659
JS9	10.861	416.000	476.148	60.148
JS10	5.124	426.000	476.084	50.084
JS11	4.938	425.000	475.816	50.816
JS12	8.074	424.000	475.656	51.656
JS13	7.911	424.000	475.608	51.608
JS14	6.623	427.000	475.573	48.573
JS15	6.653	428.000	475.533	47.533
JS16	7.909	428.000	475.523	47.523
JS17	3.673	426.000	475.514	49.514
JS18	8.127	435.000	475.520	40.520
JS19	8.791	440.000	475.503	35.503
JS20	12.896	431.000	475.462	44.462
JS21	101.116	430.000	475.157	45.157
JS22	7.923	428.000	475.552	47.552
JS23	7.110	427.500	475.653	48.153
JS24	4.495	427.000	475.713	48.713
JS25	2.221	427.500	475.729	48.229
JS26	3.683	428.500	475.764	47.264
JS27	3.852	430.000	475.826	45.826
JS28	6.940	434.500	475.931	41.431
JS29	5.020	445.000	475.996	30.996
JS30	61.437	425.000	476.301	51.301
JS31	4.602	426.000	476.227	50.227
JS32	4.522	425.000	476.213	51.213
JS33	3.715	426.000	476.212	50.212
JS34	5.711	426.000	476.213	50.213
JS35	8.825	427.000	476.238	49.238
JS36	6.273	436.000	476.227	40.227
JS37	6.837	441.000	476.229	35.229
JS38	10.919	430.000	476.293	46.293
JS39	7.600	435.000	476.423	41.423
JS40	3.035	435.000	476.434	41.434

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS41	3.133	437.000	476.451	39.451
JS42	10.218	438.500	476.492	37.992
JS43	10.521	441.000	476.736	35.736
JS44	10.625	438.000	476.923	38.923
JS45	8.721	448.000	477.272	29.272
JS46	3.659	444.000	477.278	33.278
JS47	6.864	444.000	477.297	33.297
JS48	7.835	441.000	477.244	36.244
JS49	6.544	441.000	477.228	36.228
JS50	8.891	441.000	477.227	36.227
JS51	4.097	441.000	477.228	36.228
JS52	6.344	437.000	477.247	40.247
JS53	4.976	444.000	477.270	33.270
JS54	5.856	445.000	477.352	32.352
JS55	7.647	433.000	477.682	44.682
JS56	3.983	433.000	477.741	44.741
JS60	4.853	436.000	477.820	41.820
JS61	0.853	450.000	478.000	28.000
JS62	2.488	441.000	478.018	37.018
JS63	-485.799	440.000	478.042	38.042
JS64	1.678	448.000	477.918	29.918
JS65	3.926	437.000	477.852	40.852
JS66	3.212	434.000	477.826	43.826
JS67	7.173	437.000	477.795	40.795
JS68	11.003	438.000	477.797	39.797
JS69	4.302	429.000	477.800	48.800
JS70	8.697	443.000	477.658	34.658
JS71	3.883	441.000	477.536	36.536
JS72	4.163	438.000	477.436	39.436
JS73	5.214	434.000	477.409	43.409
JS74	4.556	435.000	477.346	42.346
JS75	4.204	428.000	477.254	49.254
JS76	7.428	429.000	477.240	48.240
JS77	3.601	434.000	477.139	43.139
JS78	7.571	432.000	477.085	45.085
JS79	7.098	423.000	476.684	53.684
JS80	8.491	429.000	476.393	47.393
JS81	3.310	430.000	476.326	46.326
JS82	5.115	424.000	476.246	52.246
JS83	5.919	426.000	476.253	50.253
JS84	2.479	435.000	476.256	41.256
JS85	3.881	430.000	476.266	46.266

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS86	2.632	427.000	476.276	49.276
JS87	5.938	424.000	476.290	52.290
JS88	6.356	425.000	476.267	51.267
JS89	5.015	422.500	476.240	53.740
JS90	7.794	422.000	476.156	54.156
JS91	7.230	421.000	476.059	55.059
JS92	7.966	420.000	476.027	56.027
JS93	4.754	425.000	475.955	50.955
JS94	4.245	420.000	475.812	55.812
JS95	6.293	420.000	475.805	55.805
JS96	7.867	429.000	475.749	46.749
JS97	4.998	429.000	475.678	46.678
JS98	5.103	430.000	475.676	45.676
JS99	4.273	431.000	475.706	44.706
JS100	4.781	431.000	475.941	44.941
JS101	4.536	426.000	475.816	49.816
JS102	6.717	430.000	475.681	45.681
JS103	7.609	425.000	475.629	50.629
JS104	4.176	425.000	475.623	50.623
JS105	7.319	428.000	475.594	47.594
JS106	7.362	425.000	475.570	50.570
JS107	3.574	427.000	475.546	48.546
JS108	4.591	430.000	475.530	45.530
JS109	8.771	432.000	475.532	43.532
JS110	9.600	437.000	475.570	38.570
JS111	7.229	429.000	475.601	46.601
JS112	7.315	424.000	475.649	51.649
JS113	7.127	427.000	475.700	48.700
JS114	7.218	426.000	475.717	49.717
JS115	7.798	432.000	475.849	43.849
JS116	4.492	427.000	475.899	48.899
JS117	5.889	434.000	475.906	41.906
JS118	3.650	434.000	475.825	41.825
JS119	3.521	428.000	475.764	47.764
JS120	4.805	433.000	475.991	42.991
JS121	7.054	430.000	476.131	46.131
JS122	9.400	434.000	476.181	42.181
JS123	4.844	426.000	476.211	50.211
JS124	5.164	434.000	476.214	42.214
JS125	6.527	434.000	476.216	42.216
JS126	4.934	424.000	476.213	52.213
JS127	5.520	427.000	476.227	49.227

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS128	6.216	440.000	476.227	36.227
JS129	8.092	434.000	476.303	42.303
JS130	3.004	434.000	476.324	42.324
JS131	4.543	434.000	476.326	42.326
JS132	5.189	435.000	476.434	41.434
JS133	4.160	434.000	476.569	42.569
JS134	8.624	438.000	476.616	38.616
JS135	10.595	444.000	476.832	32.832
JS136	10.441	436.000	476.930	40.930
JS137	7.236	440.000	477.408	37.408
JS138	0.306	440.000	477.410	37.410
JS139	5.165	440.000	477.411	37.411
JS140	9.048	434.000	477.636	43.636
JS141	5.751	448.000	477.352	29.352
JS142	3.874	445.000	477.262	32.262
JS143	6.218	439.000	477.249	38.249
JS144	5.030	439.000	477.242	38.242
JS145	6.114	434.000	477.632	43.632
JS146	4.493	433.000	477.678	44.678
JS147	5.008	430.000	477.636	47.636
JS148	4.474	427.000	477.569	50.569
JS149	3.705	426.000	477.561	51.561
JS150	1.756	426.000	477.610	51.610
JS151	0.000	428.000	477.907	49.907
JS152	-485.980	421.000	478.131	57.131
JS153	0.828	427.000	477.586	50.586
JS154	2.958	432.000	477.578	45.578
JS155	7.890	441.000	477.537	36.537
JS156	6.684	441.000	477.426	36.426
JS157	6.736	441.000	477.343	36.343
JS158	8.036	439.000	477.233	38.233
JS159	5.727	436.000	477.278	41.278
JS160	3.804	428.000	477.154	49.154
JS161	3.674	426.000	477.014	51.014
JS162	3.804	425.000	476.993	51.993
JS163	4.478	425.000	476.891	51.891
JS164	4.277	424.000	476.685	52.685
JS165	3.000	424.500	476.601	52.101
JS166	5.701	425.000	476.563	51.563
JS167	4.964	431.000	476.452	45.452
JS168	5.546	430.500	476.341	45.841
JS169	5.087	430.000	476.336	46.336

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS170	5.533	424.000	476.245	52.245
JS171	5.028	423.000	476.146	53.146
JS172	4.591	423.000	476.146	53.146
JS173	4.250	422.000	476.046	54.046
JS174	4.264	420.000	475.971	55.971
JS175	3.532	423.000	475.977	52.977
JS176	4.583	422.000	476.046	54.046
JS177	3.177	420.000	475.963	55.963
JS178	9.294	422.500	476.062	53.562
JS179	7.653	421.000	475.848	54.848
JS180	9.211	423.000	475.820	52.820
JS181	6.544	426.000	475.698	49.698
JS182	6.408	426.000	475.688	49.688
JS183	8.418	423.000	475.628	52.628
JS184	6.488	428.000	475.632	47.632
JS185	6.612	429.000	475.647	46.647
JS186	6.482	425.500	475.625	50.125
JS187	6.406	431.000	475.559	44.559
JS188	4.875	425.000	475.638	50.638
JS189	3.790	423.000	475.651	52.651
JS190	2.240	424.000	475.693	51.693
JS191	4.901	423.000	475.709	52.709
JS192	4.957	425.000	475.715	50.715
JS193	4.747	420.000	475.714	55.714
JS194	4.531	432.000	475.775	43.775
JS195	5.715	433.000	475.774	42.774
JS196	6.618	424.000	475.800	51.800
JS197	6.883	424.000	475.975	51.975
JS198	6.861	432.800	475.975	43.175
JS199	5.842	429.000	475.980	46.980
JS200	4.115	430.000	476.073	46.073
JS201	8.127	430.000	476.072	46.072
JS202	7.397	434.000	476.232	42.232
JS203	7.223	434.000	476.223	42.223
JS204	4.959	430.000	476.223	46.223
JS205	6.331	434.000	476.354	42.354
JS206	4.738	435.000	476.384	41.384
JS207	3.005	435.000	476.385	41.385
JS208	4.124	434.000	476.570	42.570
JS209	3.910	438.000	476.614	38.614
JS210	4.971	440.000	476.732	36.732
JS211	4.155	445.000	476.813	31.813

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS212	1.667	444.000	476.837	32.837
JS213	4.607	441.000	476.887	35.887
JS214	5.099	436.000	477.145	41.145
JS215	5.924	436.000	477.170	41.170
JS216	7.322	439.000	477.319	38.319
JS217	4.536	440.000	477.408	37.408
JS218	5.487	435.000	477.544	42.544
JS219	8.565	443.000	477.434	34.434
JS220	7.909	438.000	477.533	39.533
JS221	4.827	430.000	477.560	47.560
JS222	4.239	429.000	477.551	48.551
JS223	4.826	433.000	477.529	44.529
JS224	6.052	432.000	477.415	45.415
JS225	6.485	433.000	477.317	44.317
JS226	3.747	433.000	477.229	44.229
JS227	3.854	432.000	477.320	45.320
JS228	5.662	433.000	477.498	44.498
JS229	4.383	426.000	477.545	51.545
JS230	5.205	426.000	477.584	51.584
JS231	6.608	429.000	477.378	48.378
JS232	5.838	433.000	477.382	44.382
JS233	6.753	434.000	477.343	43.343
JS234	7.143	426.000	477.167	51.167
JS235	4.377	425.000	477.118	52.118
JS236	3.790	425.000	476.980	51.980
JS237	3.830	425.000	476.936	51.936
JS238	3.063	425.000	476.871	51.871
JS239	2.895	425.000	476.716	51.716
JS240	1.498	425.000	476.716	51.716
JS241	3.363	425.000	476.651	51.651
JS242	5.590	425.000	476.571	51.571
JS243	5.232	427.000	476.478	49.478
JS244	6.079	419.000	476.295	57.295
JS245	3.228	423.000	476.265	53.265
JS246	5.013	423.000	476.246	53.246
JS247	8.189	425.000	476.239	51.239
JS248	4.663	422.800	476.146	53.346
JS249	3.592	422.000	476.219	54.219
JS250	4.997	423.000	476.192	53.192
JS251	3.106	423.000	476.218	53.218
JS252	3.804	422.000	476.226	54.226
JS253	4.284	422.000	476.224	54.224

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS254	5.776	424.500	476.329	51.829
JS255	8.801	424.000	476.243	52.243
JS256	9.249	423.000	476.021	53.021
JS257	9.835	423.000	475.990	52.990
JS258	5.732	423.000	476.134	53.134
JS259	6.116	425.000	476.365	51.365
JS260	7.409	426.000	476.474	50.474
JS261	5.179	424.000	476.493	52.493
JS262	7.202	423.000	476.548	53.548
JS263	6.520	431.000	476.510	45.510
JS264	5.808	424.000	476.342	52.342
JS265	4.030	425.500	476.118	50.618
JS266	3.840	424.500	475.980	51.480
JS267	6.087	422.000	475.823	53.823
JS268	4.618	425.000	476.081	51.081
JS269	4.588	432.000	476.395	44.395
JS270	3.988	437.000	476.395	39.395
JS271	4.121	437.000	476.371	39.371
JS272	5.410	435.000	476.333	41.333
JS273	2.978	439.000	476.436	37.436
JS274	3.032	440.000	476.461	36.461
JS275	4.022	438.000	476.461	38.461
JS276	4.276	435.000	476.550	41.550
JS277	5.638	436.000	476.603	40.603
JS278	4.021	439.000	476.635	37.635
JS279	5.073	446.000	476.633	30.633
JS280	7.311	432.000	476.711	44.711
JS281	4.000	432.000	476.792	44.792
JS282	3.661	437.000	476.813	39.813
JS283	3.638	444.000	476.871	32.871
JS284	4.498	433.000	476.831	43.831
JS285	5.226	433.000	476.831	43.831
JS286	5.945	427.000	477.030	50.030
JS287	3.190	435.000	477.135	42.135
JS288	4.261	439.000	477.224	38.224
JS289	4.146	426.500	477.244	50.744
JS290	3.783	430.000	477.147	47.147
JS291	4.267	427.000	477.022	50.022
JS292	3.750	426.000	476.931	50.931
JS293	5.568	426.000	476.856	50.856
JS294	8.056	427.000	476.720	49.720
JS295	5.868	427.000	476.777	49.777

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS296	5.900	426.000	476.934	50.934
JS297	7.166	427.000	477.262	50.262
JS298	5.485	427.000	476.849	49.849
JS299	3.672	426.000	477.045	51.045
JS300	4.396	426.000	477.109	51.109
JS301	1.284	427.000	477.108	50.108
JS302	4.370	425.000	477.009	52.009
JS303	4.689	425.000	476.918	51.918
JS304	3.195	426.000	476.873	50.873
JS305	5.219	426.000	476.755	50.755
JS306	5.864	425.500	476.639	51.139
JS307	5.789	426.000	476.704	50.704
JS308	5.738	424.000	476.736	52.736
JS309	5.638	430.000	476.782	46.782
JS310	2.341	427.000	476.847	49.847
JS311	5.071	427.000	476.847	49.847
JS312	4.528	425.000	476.796	51.796
JS313	6.231	437.000	476.602	39.602
JS314	4.933	443.000	476.474	33.474
JS315	2.892	438.000	476.464	38.464
JS316	5.546	433.000	476.462	43.462
JS317	5.683	438.500	476.437	37.937
JS318	2.849	423.000	475.687	52.687
JS319	4.096	427.000	476.269	49.269
JS320	4.045	448.000	477.771	29.771
JS321	-177.984	424.773	476.349	51.576

3. 平差计算管道参数

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS1-JS2	1000	113.466	972.234	1.187	1.179	0.134
JS2-JS3	1000	410.507	293.725	0.359	0.129	0.053
JS2-JS65	1000	309.719	216.255	0.264	0.073	0.023
JS2-JS68	800	369.227	213.685	0.407	0.209	0.077
JS3-JS4	800	4253.696	281.840	0.536	0.349	1.487
JS3-JS69	300	505.446	7.204	0.095	0.043	0.022
JS4-JS5	400	931.632	29.961	0.225	0.154	0.143
JS4-JS87	700	278.438	130.670	0.325	0.161	0.045
JS4-JS89	600	369.617	113.135	0.381	0.258	0.095
JS5-JS6	300	620.271	7.715	0.102	0.049	0.030
JS5-JS8	300	251.193	13.031	0.172	0.129	0.032
JS6-JS7	300	239.100	3.323	0.044	0.010	0.002
JS7-JS8	300	564.978	0.787	0.010	0.001	0.000
JS8-JS9	300	817.115	3.896	0.051	0.014	0.011
JS9-JS10	600	333.764	96.277	0.324	0.191	0.064
JS9-JS89	600	324.249	119.101	0.401	0.283	0.092
JS9-JS92	300	650.046	15.859	0.209	0.186	0.121
JS10-JS11	300	411.718	31.237	0.411	0.650	0.268
JS10-JS100	400	257.162	59.916	0.449	0.555	0.143
JS11-JS12	300	364.942	25.268	0.333	0.439	0.160
JS11-JS101	300	189.513	1.031	0.014	0.001	0.000
JS12-JS13	300	671.318	9.477	0.125	0.072	0.048
JS12-JS103	300	543.525	7.718	0.102	0.049	0.027
JS13-JS14	300	475.542	9.660	0.127	0.074	0.035
JS13-JS103	300	401.036	8.094	0.107	0.053	0.021
JS14-JS15	300	419.506	11.070	0.146	0.095	0.040
JS14-JS105	300	400.825	8.034	0.106	0.053	0.021
JS15-JS16	400	278.355	13.744	0.103	0.036	0.010
JS15-JS18	300	328.340	6.793	0.089	0.039	0.013
JS15-JS107	400	275.506	16.120	0.121	0.049	0.013
JS16-JS17	300	718.653	3.673	0.048	0.012	0.009
JS16-JS18	300	550.551	2.162	0.028	0.005	0.003
JS18-JS19	300	407.935	7.168	0.094	0.043	0.017
JS18-JS108	300	303.274	6.340	0.083	0.034	0.010
JS19-JS20	300	874.527	7.521	0.099	0.047	0.041
JS19-JS109	300	437.518	9.144	0.120	0.067	0.029
JS20-JS21	500	609.616	101.116	0.487	0.499	0.304
JS20-JS22	300	377.219	18.196	0.240	0.239	0.090
JS20-JS110	600	661.980	88.295	0.297	0.163	0.108

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS22-JS23	300	502.101	16.552	0.218	0.201	0.101
JS22-JS111	300	670.932	9.567	0.126	0.073	0.049
JS23-JS24	300	132.371	25.815	0.340	0.457	0.060
JS23-JS112	300	756.758	2.153	0.028	0.005	0.003
JS24-JS25	300	166.021	10.977	0.145	0.094	0.016
JS24-JS114	300	306.039	3.479	0.046	0.011	0.003
JS24-JS119	300	274.986	15.854	0.209	0.185	0.051
JS25-JS26	300	268.502	13.198	0.174	0.132	0.035
JS26-JS27	300	277.065	17.465	0.230	0.222	0.061
JS26-JS119	300	175.046	0.584	0.008	0.000	0.000
JS27-JS28	300	276.292	23.353	0.307	0.380	0.105
JS27-JS118	300	200.317	2.036	0.027	0.004	0.001
JS28-JS29	300	241.716	19.380	0.255	0.269	0.065
JS28-JS117	300	196.415	12.772	0.168	0.124	0.024
JS28-JS122	300	643.446	23.686	0.312	0.390	0.251
JS29-JS30	300	740.541	24.400	0.321	0.412	0.305
JS30-JS31	300	278.544	19.181	0.252	0.264	0.073
JS30-JS122	500	436.127	72.966	0.352	0.273	0.119
JS30-JS321	800	324.470	177.984	0.339	0.149	0.048
JS31-JS32	300	253.238	8.156	0.107	0.054	0.014
JS31-JS124	300	368.689	6.423	0.085	0.035	0.013
JS32-JS33	300	461.554	1.800	0.024	0.003	0.002
JS32-JS126	300	170.021	1.834	0.024	0.003	0.001
JS33-JS34	300	265.357	1.915	0.025	0.004	0.001
JS34-JS35	300	482.093	7.912	0.104	0.051	0.025
JS34-JS126	300	369.966	0.286	0.004	0.000	0.000
JS35-JS36	300	815.602	3.802	0.050	0.013	0.011
JS35-JS38	400	323.047	31.884	0.239	0.173	0.056
JS35-JS127	300	105.971	11.345	0.149	0.100	0.011
JS36-JS37	300	411.717	2.471	0.033	0.006	0.002
JS37-JS38	300	925.962	9.308	0.123	0.069	0.064
JS38-JS39	400	443.538	42.473	0.319	0.293	0.130
JS38-JS131	300	443.868	9.638	0.127	0.074	0.033
JS39-JS40	300	334.753	6.114	0.080	0.032	0.011
JS39-JS42	400	279.413	38.672	0.290	0.247	0.069
JS39-JS132	300	429.231	5.286	0.070	0.024	0.010
JS40-JS41	300	259.062	9.149	0.120	0.067	0.017
JS41-JS42	300	353.858	12.282	0.162	0.116	0.041
JS42-JS43	400	767.032	44.368	0.333	0.318	0.244
JS42-JS134	300	599.030	16.805	0.221	0.207	0.124
JS43-JS44	400	711.452	40.026	0.300	0.263	0.187

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS43-JS135	300	580.056	14.862	0.196	0.165	0.095
JS44-JS45	400	1022.366	46.051	0.345	0.341	0.348
JS44-JS136	300	345.022	4.600	0.061	0.019	0.006
JS45-JS46	300	346.516	4.339	0.057	0.017	0.006
JS45-JS137	400	337.553	50.433	0.378	0.403	0.136
JS46-JS47	300	369.475	7.998	0.105	0.052	0.019
JS47-JS48	300	700.116	9.750	0.128	0.075	0.053
JS47-JS139	300	273.385	24.612	0.324	0.418	0.114
JS48-JS49	300	336.025	7.683	0.101	0.049	0.016
JS48-JS142	300	258.847	9.299	0.122	0.069	0.018
JS48-JS144	300	238.111	3.531	0.046	0.012	0.003
JS49-JS50	300	944.319	1.139	0.015	0.001	0.001
JS50-JS51	300	237.353	2.188	0.029	0.005	0.001
JS50-JS144	300	557.959	5.564	0.073	0.027	0.015
JS51-JS52	300	564.264	6.285	0.083	0.033	0.019
JS52-JS53	300	309.219	9.861	0.130	0.077	0.024
JS52-JS143	300	367.726	2.768	0.036	0.007	0.003
JS53-JS54	300	228.897	22.516	0.296	0.355	0.081
JS53-JS143	300	435.488	7.679	0.101	0.048	0.021
JS54-JS55	300	617.222	28.136	0.370	0.536	0.331
JS54-JS141	300	299.668	0.236	0.003	0.000	0.000
JS55-JS56	1200	336.001	558.170	0.474	0.175	0.059
JS55-JS140	1200	513.617	391.458	0.333	0.091	0.047
JS55-JS146	700	29.474	130.929	0.325	0.161	0.005
JS56-JS60	1200	443.262	562.153	0.478	0.178	0.079
JS60-JS61	400	303.049	62.111	0.466	0.593	0.180
JS60-JS66	1200	26.965	627.785	0.534	0.218	0.006
JS60-JS67	800	327.729	122.891	0.234	0.075	0.025
JS61-JS62	400	30.690	62.964	0.472	0.608	0.019
JS62-JS63	800	24.800	485.799	0.924	0.957	0.024
JS62-JS64	300	368.933	19.506	0.257	0.272	0.100
JS62-JS66	800	286.975	400.841	0.763	0.671	0.192
JS64-JS65	300	287.621	17.828	0.235	0.230	0.066
JS65-JS66	1000	314.621	230.157	0.281	0.082	0.026
JS67-JS68	300	724.115	1.464	0.019	0.002	0.002
JS67-JS320	800	351.715	117.182	0.223	0.069	0.024
JS68-JS69	300	336.382	2.902	0.038	0.008	0.003
JS68-JS70	800	723.173	204.120	0.388	0.192	0.139
JS70-JS71	600	309.988	142.117	0.478	0.393	0.122
JS70-JS155	600	228.698	166.443	0.560	0.526	0.120
JS70-JS320	600	439.739	113.137	0.381	0.258	0.113

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS71-JS72	500	157.817	115.007	0.554	0.634	0.100
JS71-JS156	300	291.904	23.227	0.306	0.376	0.110
JS72-JS73	500	241.662	45.090	0.217	0.112	0.027
JS72-JS157	500	415.092	65.753	0.317	0.225	0.094
JS73-JS74	300	256.444	18.446	0.243	0.245	0.063
JS73-JS76	300	522.083	21.431	0.282	0.324	0.169
JS74-JS75	300	634.893	13.890	0.183	0.145	0.092
JS75-JS76	300	187.641	9.686	0.128	0.075	0.014
JS76-JS77	300	391.083	18.913	0.249	0.257	0.100
JS76-JS158	300	352.587	4.776	0.063	0.020	0.007
JS77-JS78	300	313.564	15.312	0.202	0.174	0.055
JS78-JS79	300	517.145	34.367	0.452	0.776	0.401
JS78-JS158	400	388.115	48.918	0.367	0.381	0.148
JS78-JS162	300	262.438	22.292	0.293	0.348	0.091
JS79-JS80	300	514.328	28.951	0.381	0.565	0.291
JS79-JS164	300	357.353	1.682	0.022	0.003	0.001
JS80-JS81	300	242.933	19.703	0.259	0.277	0.067
JS80-JS166	300	690.678	18.494	0.243	0.247	0.170
JS80-JS169	300	213.475	19.252	0.253	0.266	0.057
JS81-JS82	300	404.644	16.393	0.216	0.197	0.080
JS82-JS83	600	301.645	30.214	0.102	0.022	0.007
JS82-JS170	400	20.393	18.668	0.140	0.064	0.001
JS82-JS172	300	274.055	22.823	0.300	0.364	0.100
JS83-JS84	300	239.495	4.187	0.055	0.016	0.004
JS83-JS90	400	331.398	42.250	0.317	0.291	0.096
JS83-JS319	700	285.633	74.197	0.184	0.056	0.016
JS84-JS85	300	245.557	6.666	0.088	0.037	0.009
JS85-JS86	300	307.120	6.421	0.085	0.035	0.011
JS85-JS319	300	206.753	4.126	0.054	0.015	0.003
JS86-JS87	300	207.833	9.053	0.119	0.066	0.014
JS87-JS88	500	366.603	33.261	0.160	0.064	0.023
JS87-JS319	700	309.033	82.418	0.205	0.069	0.021
JS88-JS89	300	287.373	10.981	0.145	0.094	0.027
JS88-JS90	300	589.598	15.924	0.210	0.187	0.110
JS90-JS91	400	311.367	43.971	0.330	0.313	0.097
JS90-JS172	300	292.574	6.409	0.084	0.035	0.010
JS91-JS92	300	543.521	8.501	0.112	0.059	0.032
JS91-JS173	300	291.563	7.412	0.098	0.045	0.013
JS91-JS175	300	268.143	20.828	0.274	0.307	0.082
JS92-JS93	300	365.152	16.393	0.216	0.197	0.072
JS93-JS94	300	370.504	23.616	0.311	0.388	0.144

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS93-JS175	300	194.564	11.976	0.158	0.110	0.021
JS94-JS95	500	58.684	43.303	0.209	0.104	0.006
JS94-JS174	300	401.397	23.932	0.315	0.397	0.159
JS95-JS96	500	252.120	65.506	0.316	0.224	0.056
JS95-JS177	300	440.488	22.617	0.298	0.358	0.158
JS95-JS180	300	480.000	5.880	0.077	0.030	0.014
JS96-JS97	300	207.951	22.104	0.291	0.343	0.071
JS96-JS181	300	832.549	8.700	0.115	0.061	0.051
JS96-JS183	300	246.731	26.835	0.353	0.491	0.121
JS97-JS98	300	507.455	1.728	0.023	0.003	0.002
JS97-JS184	300	262.596	15.378	0.202	0.175	0.046
JS98-JS99	300	189.109	14.502	0.191	0.157	0.030
JS98-JS185	300	301.945	11.127	0.146	0.096	0.029
JS99-JS100	300	390.481	29.990	0.395	0.603	0.235
JS99-JS102	300	256.379	11.214	0.148	0.098	0.025
JS100-JS101	300	287.869	25.145	0.331	0.435	0.125
JS101-JS102	300	410.071	21.640	0.285	0.330	0.135
JS102-JS103	300	349.094	14.005	0.184	0.147	0.051
JS102-JS185	300	298.727	12.133	0.160	0.113	0.034
JS103-JS104	300	195.074	6.020	0.079	0.031	0.006
JS104-JS105	300	294.258	11.378	0.150	0.100	0.030
JS104-JS185	300	327.770	9.535	0.126	0.072	0.024
JS105-JS106	300	416.495	8.454	0.111	0.058	0.024
JS105-JS184	300	320.520	12.428	0.164	0.118	0.038
JS106-JS107	400	168.328	28.465	0.214	0.140	0.024
JS106-JS183	400	333.030	32.102	0.241	0.175	0.058
JS106-JS187	300	522.623	4.728	0.062	0.020	0.010
JS107-JS108	300	255.440	8.771	0.115	0.062	0.016
JS108-JS109	300	339.640	2.160	0.028	0.005	0.002
JS109-JS110	300	685.417	8.215	0.108	0.055	0.038
JS109-JS187	300	253.649	11.860	0.156	0.108	0.027
JS110-JS111	300	213.831	13.958	0.184	0.146	0.031
JS110-JS186	600	317.043	92.152	0.310	0.176	0.056
JS111-JS112	300	189.568	18.862	0.248	0.256	0.048
JS111-JS188	300	340.189	11.891	0.157	0.109	0.037
JS112-JS113	300	152.256	21.813	0.287	0.335	0.051
JS112-JS189	300	332.777	2.211	0.029	0.005	0.002
JS113-JS114	300	481.199	6.359	0.084	0.034	0.016
JS113-JS193	300	195.776	9.446	0.124	0.071	0.014
JS113-JS195	300	565.338	13.135	0.173	0.131	0.074
JS114-JS115	300	625.074	17.056	0.225	0.212	0.133

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS115-JS116	300	199.147	18.580	0.245	0.249	0.050
JS115-JS195	300	364.346	16.792	0.221	0.206	0.075
JS115-JS198	300	337.242	23.066	0.304	0.371	0.125
JS116-JS117	300	339.046	4.965	0.065	0.022	0.007
JS116-JS199	300	340.668	18.107	0.238	0.237	0.081
JS117-JS118	300	274.883	20.406	0.269	0.296	0.081
JS117-JS120	300	341.840	18.488	0.243	0.246	0.084
JS118-JS119	300	238.972	18.792	0.247	0.254	0.061
JS120-JS121	300	243.806	29.266	0.385	0.576	0.141
JS120-JS199	300	354.499	5.973	0.079	0.030	0.011
JS121-JS122	500	374.996	49.735	0.240	0.134	0.050
JS121-JS200	400	355.193	31.028	0.233	0.164	0.058
JS121-JS203	300	406.263	17.612	0.232	0.225	0.092
JS122-JS123	300	384.683	9.855	0.130	0.077	0.030
JS123-JS124	400	352.925	6.491	0.049	0.009	0.003
JS123-JS204	300	210.208	8.208	0.108	0.055	0.012
JS124-JS125	400	288.808	5.232	0.039	0.006	0.002
JS125-JS126	300	425.465	2.814	0.037	0.008	0.003
JS125-JS127	300	389.639	5.717	0.075	0.028	0.011
JS125-JS128	300	173.251	8.856	0.117	0.063	0.011
JS127-JS128	300	584.374	0.108	0.001	0.000	0.000
JS128-JS129	300	458.616	14.964	0.197	0.167	0.076
JS129-JS130	400	253.583	21.121	0.158	0.081	0.020
JS129-JS204	300	586.476	13.502	0.178	0.138	0.081
JS129-JS205	300	284.650	15.437	0.203	0.176	0.050
JS130-JS131	300	73.725	6.024	0.079	0.031	0.002
JS130-JS207	300	260.446	18.101	0.238	0.237	0.062
JS131-JS132	300	371.304	20.204	0.266	0.290	0.108
JS132-JS133	300	214.803	30.680	0.404	0.629	0.135
JS133-JS134	500	276.127	56.592	0.273	0.171	0.047
JS133-JS207	300	298.686	30.292	0.399	0.614	0.183
JS133-JS208	300	24.241	8.540	0.112	0.059	0.001
JS134-JS135	600	787.670	116.959	0.394	0.274	0.216
JS134-JS209	500	24.623	34.938	0.168	0.070	0.002
JS135-JS136	600	679.547	82.742	0.279	0.144	0.098
JS135-JS212	500	25.695	59.675	0.288	0.188	0.005
JS136-JS137	500	1018.356	97.783	0.471	0.469	0.478
JS137-JS138	800	31.640	105.802	0.201	0.057	0.002
JS137-JS217	800	28.303	49.650	0.094	0.014	0.000
JS138-JS139	800	28.174	106.108	0.202	0.057	0.002
JS139-JS140	800	676.618	273.882	0.521	0.331	0.224

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS139-JS217	800	32.411	137.997	0.263	0.093	0.003
JS140-JS141	300	551.820	27.530	0.362	0.515	0.284
JS140-JS145	600	28.238	80.998	0.273	0.139	0.004
JS141-JS142	300	273.834	21.543	0.284	0.327	0.090
JS142-JS143	300	225.375	8.370	0.110	0.057	0.013
JS143-JS144	300	188.053	7.063	0.093	0.042	0.008
JS145-JS146	300	522.886	10.576	0.139	0.088	0.046
JS145-JS218	400	252.322	46.478	0.349	0.347	0.087
JS145-JS220	400	392.738	38.982	0.292	0.250	0.098
JS146-JS147	700	326.684	115.860	0.288	0.129	0.042
JS147-JS148	600	392.070	90.661	0.305	0.171	0.067
JS147-JS221	300	261.209	20.191	0.266	0.290	0.076
JS148-JS149	800	239.402	76.669	0.146	0.031	0.008
JS148-JS222	300	243.828	9.518	0.125	0.072	0.018
JS149-JS150	500	185.195	71.637	0.345	0.264	0.049
JS149-JS223	300	252.043	12.893	0.170	0.126	0.032
JS149-JS229	600	48.350	131.708	0.443	0.341	0.016
JS150-JS151	800	309.908	485.980	0.925	0.958	0.297
JS150-JS153	300	118.224	16.589	0.218	0.202	0.024
JS150-JS230	800	40.172	395.999	0.754	0.656	0.026
JS151-JS152	800	234.265	485.980	0.925	0.958	0.224
JS153-JS154	300	43.871	15.761	0.207	0.183	0.008
JS154-JS155	500	421.028	41.537	0.200	0.096	0.041
JS154-JS230	500	113.816	28.734	0.138	0.049	0.006
JS155-JS156	600	362.603	124.285	0.418	0.306	0.111
JS155-JS232	500	531.502	75.805	0.365	0.293	0.156
JS156-JS157	500	328.313	70.360	0.339	0.255	0.084
JS156-JS233	500	324.889	70.468	0.340	0.256	0.083
JS157-JS158	400	412.301	40.291	0.302	0.266	0.110
JS157-JS159	500	162.217	89.086	0.429	0.395	0.064
JS158-JS159	300	419.357	11.887	0.156	0.109	0.046
JS159-JS160	500	303.210	91.076	0.439	0.412	0.125
JS159-JS233	300	235.747	19.604	0.258	0.275	0.065
JS160-JS161	300	243.584	29.128	0.383	0.571	0.139
JS160-JS235	500	197.421	58.144	0.280	0.179	0.035
JS161-JS162	300	288.800	9.556	0.126	0.073	0.021
JS161-JS236	300	186.570	15.899	0.209	0.186	0.035
JS162-JS163	300	193.124	28.044	0.369	0.533	0.103
JS163-JS164	300	301.256	32.091	0.422	0.683	0.206
JS163-JS236	300	251.193	22.508	0.296	0.355	0.089
JS163-JS238	300	130.505	13.983	0.184	0.147	0.019

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS164-JS165	300	178.313	26.132	0.344	0.467	0.083
JS165-JS166	400	108.943	46.609	0.350	0.348	0.038
JS165-JS239	300	299.726	23.477	0.309	0.383	0.115
JS166-JS167	300	315.854	22.414	0.295	0.352	0.111
JS167-JS168	300	238.651	26.152	0.344	0.468	0.112
JS167-JS243	300	416.666	8.702	0.115	0.061	0.025
JS168-JS169	300	374.951	3.458	0.046	0.011	0.004
JS168-JS247	300	471.514	17.148	0.226	0.214	0.101
JS169-JS170	300	406.970	17.622	0.232	0.225	0.092
JS170-JS171	300	273.703	22.702	0.299	0.360	0.099
JS170-JS247	400	381.440	8.056	0.060	0.014	0.005
JS171-JS172	300	20.277	3.249	0.043	0.010	0.000
JS171-JS176	300	308.979	21.469	0.283	0.325	0.100
JS171-JS248	300	380.766	0.546	0.007	0.000	0.000
JS172-JS173	300	311.443	21.392	0.282	0.323	0.101
JS173-JS174	300	204.570	22.876	0.301	0.365	0.075
JS173-JS176	300	23.974	1.678	0.022	0.003	0.000
JS174-JS175	300	228.402	5.320	0.070	0.025	0.006
JS176-JS177	300	181.113	25.794	0.340	0.456	0.083
JS176-JS178	300	382.716	7.230	0.095	0.043	0.017
JS178-JS179	300	628.756	22.006	0.290	0.340	0.214
JS178-JS248	300	309.559	19.468	0.256	0.271	0.084
JS178-JS250	300	497.430	19.063	0.251	0.261	0.130
JS179-JS180	600	101.096	119.412	0.402	0.285	0.029
JS179-JS256	600	767.550	105.059	0.354	0.225	0.172
JS180-JS181	600	414.548	121.308	0.408	0.293	0.121
JS180-JS257	300	806.500	16.987	0.224	0.211	0.170
JS181-JS182	600	33.250	123.464	0.416	0.303	0.010
JS182-JS183	300	746.208	10.109	0.133	0.081	0.060
JS182-JS186	600	289.775	102.964	0.347	0.216	0.063
JS182-JS318	400	184.642	3.982	0.030	0.004	0.001
JS183-JS184	300	321.079	3.576	0.047	0.012	0.004
JS184-JS185	300	365.353	7.113	0.094	0.042	0.015
JS186-JS187	300	477.057	13.538	0.178	0.138	0.066
JS186-JS188	300	184.314	9.207	0.121	0.068	0.013
JS188-JS189	300	177.145	9.620	0.127	0.074	0.013
JS188-JS318	300	252.158	16.353	0.215	0.196	0.050
JS189-JS190	300	231.603	15.621	0.206	0.180	0.042
JS190-JS191	400	85.922	33.081	0.248	0.185	0.016
JS190-JS318	400	120.692	15.220	0.114	0.044	0.005
JS191-JS192	300	220.024	5.903	0.078	0.030	0.007

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS191-JS267	400	653.020	32.079	0.241	0.175	0.114
JS192-JS193	300	139.174	2.684	0.035	0.007	0.001
JS192-JS196	300	610.602	13.545	0.178	0.139	0.085
JS193-JS194	300	593.833	11.509	0.152	0.103	0.061
JS194-JS195	300	188.516	2.058	0.027	0.004	0.001
JS194-JS196	300	104.261	18.097	0.238	0.237	0.025
JS196-JS197	300	414.781	24.730	0.326	0.422	0.175
JS196-JS267	300	165.237	13.529	0.178	0.138	0.023
JS197-JS198	300	554.056	0.677	0.009	0.001	0.000
JS197-JS266	300	144.415	6.489	0.085	0.036	0.005
JS197-JS268	300	233.509	25.802	0.340	0.457	0.107
JS198-JS199	300	203.631	5.411	0.071	0.025	0.005
JS198-JS201	300	247.424	23.839	0.314	0.394	0.098
JS199-JS200	300	244.344	23.387	0.308	0.381	0.093
JS200-JS201	400	205.626	3.526	0.026	0.003	0.001
JS201-JS202	300	609.609	19.132	0.252	0.263	0.160
JS201-JS268	400	527.457	9.307	0.070	0.018	0.009
JS202-JS203	300	286.109	6.297	0.083	0.034	0.010
JS202-JS272	400	551.658	32.827	0.246	0.182	0.101
JS203-JS204	300	173.591	0.334	0.004	0.000	0.000
JS203-JS205	300	547.350	18.204	0.240	0.239	0.131
JS205-JS206	500	207.819	51.646	0.249	0.144	0.030
JS205-JS272	300	198.856	11.674	0.154	0.105	0.021
JS206-JS207	300	28.919	9.186	0.121	0.068	0.002
JS206-JS208	300	293.341	30.893	0.407	0.637	0.187
JS206-JS275	300	396.994	16.304	0.215	0.195	0.078
JS208-JS209	500	274.402	54.698	0.264	0.160	0.044
JS208-JS276	300	214.899	11.140	0.147	0.097	0.021
JS209-JS210	300	185.544	30.764	0.405	0.632	0.117
JS209-JS277	300	280.453	7.094	0.093	0.042	0.012
JS210-JS211	500	474.498	56.621	0.273	0.171	0.081
JS210-JS278	300	312.609	20.886	0.275	0.309	0.097
JS211-JS212	500	128.470	59.372	0.286	0.187	0.024
JS211-JS282	400	210.070	1.404	0.011	0.001	0.000
JS212-JS213	600	172.100	120.713	0.406	0.290	0.050
JS213-JS214	600	519.207	161.624	0.544	0.498	0.259
JS213-JS283	500	210.057	36.303	0.175	0.075	0.016
JS214-JS215	600	57.579	150.237	0.506	0.435	0.025
JS214-JS226	300	420.802	16.485	0.217	0.199	0.084
JS215-JS216	600	551.848	115.886	0.390	0.269	0.149
JS215-JS225	400	549.725	40.276	0.302	0.266	0.146

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS216-JS217	600	398.453	105.007	0.353	0.224	0.089
JS216-JS219	300	482.236	18.200	0.240	0.239	0.115
JS217-JS218	300	428.266	21.197	0.279	0.317	0.136
JS218-JS219	300	393.034	19.794	0.261	0.280	0.110
JS219-JS220	300	246.984	24.052	0.317	0.401	0.099
JS219-JS225	300	553.500	17.081	0.225	0.213	0.118
JS220-JS221	300	339.577	9.904	0.130	0.078	0.026
JS220-JS224	300	568.114	16.925	0.223	0.209	0.119
JS221-JS222	300	343.743	5.461	0.072	0.026	0.009
JS222-JS223	300	241.848	10.740	0.141	0.090	0.022
JS223-JS224	300	450.453	18.807	0.248	0.254	0.115
JS224-JS225	300	165.559	29.680	0.391	0.592	0.098
JS226-JS227	300	312.379	20.232	0.266	0.291	0.091
JS227-JS228	300	441.633	24.086	0.317	0.402	0.178
JS228-JS229	600	249.310	95.392	0.321	0.188	0.047
JS228-JS288	400	416.796	65.644	0.492	0.657	0.274
JS229-JS230	600	191.107	99.830	0.336	0.204	0.039
JS229-JS289	500	368.762	131.762	0.635	0.815	0.301
JS230-JS231	800	673.342	262.230	0.499	0.306	0.206
JS231-JS232	600	283.663	23.655	0.080	0.014	0.004
JS231-JS297	800	335.973	279.276	0.531	0.344	0.115
JS232-JS233	500	327.142	46.312	0.223	0.118	0.039
JS233-JS234	500	433.522	90.423	0.436	0.406	0.176
JS234-JS235	300	330.138	14.039	0.185	0.148	0.049
JS234-JS297	300	475.797	16.515	0.217	0.200	0.095
JS234-JS300	500	158.117	85.756	0.413	0.368	0.058
JS235-JS236	300	186.546	33.561	0.442	0.743	0.139
JS235-JS302	300	142.234	34.244	0.451	0.771	0.110
JS236-JS237	300	117.182	23.162	0.305	0.374	0.044
JS237-JS238	300	225.890	20.012	0.263	0.285	0.064
JS237-JS302	300	211.638	22.126	0.291	0.344	0.073
JS237-JS304	300	194.723	21.446	0.282	0.324	0.063
JS238-JS239	300	243.012	30.931	0.407	0.638	0.155
JS239-JS240	300	23.609	4.559	0.060	0.018	0.000
JS240-JS241	300	70.483	37.720	0.497	0.922	0.065
JS240-JS304	300	199.087	34.659	0.456	0.788	0.157
JS241-JS242	400	180.182	53.240	0.399	0.446	0.080
JS241-JS305	300	407.357	18.883	0.249	0.256	0.104
JS242-JS243	300	105.600	36.765	0.484	0.879	0.093
JS242-JS254	300	469.095	27.525	0.362	0.514	0.241
JS242-JS306	300	338.898	16.640	0.219	0.203	0.069

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS243-JS244	300	501.492	22.831	0.301	0.364	0.183
JS244-JS245	400	115.072	40.034	0.300	0.263	0.030
JS244-JS252	300	430.307	14.713	0.194	0.161	0.069
JS244-JS254	400	142.534	37.995	0.285	0.239	0.034
JS245-JS246	400	183.718	24.107	0.181	0.103	0.019
JS245-JS253	300	332.713	12.698	0.167	0.123	0.041
JS246-JS247	400	527.317	7.660	0.057	0.012	0.007
JS246-JS249	300	269.897	11.434	0.151	0.101	0.027
JS247-JS248	300	221.946	24.676	0.325	0.420	0.093
JS249-JS250	300	206.572	13.038	0.172	0.129	0.027
JS249-JS253	300	226.355	5.196	0.068	0.024	0.005
JS250-JS251	300	273.700	11.021	0.145	0.095	0.026
JS251-JS252	300	184.470	7.130	0.094	0.042	0.008
JS251-JS253	300	149.527	6.997	0.092	0.041	0.006
JS252-JS253	300	129.606	3.779	0.050	0.013	0.002
JS254-JS255	300	343.200	18.693	0.246	0.251	0.086
JS254-JS259	400	175.407	34.939	0.262	0.204	0.036
JS255-JS256	600	713.207	125.356	0.422	0.311	0.222
JS255-JS258	300	332.646	21.506	0.283	0.326	0.108
JS255-JS259	600	333.036	136.969	0.461	0.367	0.122
JS256-JS257	300	328.834	11.048	0.145	0.095	0.031
JS257-JS258	300	788.982	15.774	0.208	0.184	0.145
JS259-JS260	600	260.798	147.011	0.495	0.418	0.109
JS259-JS306	300	427.387	31.013	0.408	0.642	0.274
JS260-JS261	300	506.939	6.706	0.088	0.038	0.019
JS260-JS262	600	261.487	119.248	0.401	0.284	0.074
JS260-JS307	300	420.506	28.466	0.375	0.548	0.230
JS261-JS262	300	506.461	11.885	0.156	0.109	0.055
JS262-JS263	400	224.325	31.890	0.239	0.173	0.039
JS262-JS295	600	416.825	170.225	0.573	0.548	0.229
JS263-JS264	500	357.245	97.756	0.471	0.469	0.168
JS263-JS294	500	403.474	103.539	0.499	0.522	0.211
JS263-JS316	400	290.733	31.154	0.234	0.165	0.048
JS264-JS265	500	411.760	105.781	0.510	0.543	0.224
JS264-JS269	300	367.370	13.834	0.182	0.144	0.053
JS265-JS266	400	234.173	62.024	0.465	0.591	0.138
JS265-JS268	400	142.615	39.727	0.298	0.259	0.037
JS266-JS267	400	372.755	51.696	0.388	0.422	0.157
JS269-JS270	300	255.831	0.085	0.001	0.000	0.000
JS269-JS316	300	274.461	18.336	0.241	0.243	0.067
JS270-JS271	300	267.124	10.799	0.142	0.091	0.024

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS270-JS317	300	257.438	14.872	0.196	0.165	0.042
JS271-JS272	400	308.007	26.563	0.199	0.123	0.038
JS271-JS273	300	231.192	19.885	0.262	0.282	0.065
JS273-JS274	300	85.141	20.411	0.269	0.296	0.025
JS273-JS317	300	266.362	2.452	0.032	0.006	0.002
JS274-JS275	300	111.456	0.897	0.012	0.001	0.000
JS274-JS313	300	396.723	22.546	0.297	0.356	0.141
JS275-JS276	300	278.546	21.223	0.279	0.318	0.089
JS276-JS277	300	343.153	14.359	0.189	0.154	0.053
JS277-JS278	300	212.015	14.304	0.188	0.153	0.032
JS277-JS313	300	267.544	1.401	0.018	0.002	0.001
JS278-JS279	300	262.156	2.561	0.034	0.006	0.002
JS279-JS280	500	506.963	53.448	0.258	0.154	0.078
JS279-JS313	500	223.445	50.936	0.245	0.140	0.031
JS280-JS281	300	277.334	20.276	0.267	0.292	0.081
JS280-JS285	300	312.494	23.495	0.309	0.384	0.120
JS280-JS309	300	333.645	16.987	0.224	0.211	0.070
JS281-JS282	300	208.735	11.233	0.148	0.098	0.020
JS281-JS284	300	296.674	13.043	0.172	0.129	0.038
JS282-JS283	300	297.495	16.298	0.215	0.195	0.058
JS283-JS284	300	204.313	16.367	0.215	0.197	0.040
JS284-JS285	300	379.111	1.174	0.015	0.002	0.001
JS285-JS286	300	330.898	29.895	0.394	0.599	0.198
JS286-JS287	400	129.920	73.559	0.552	0.811	0.105
JS286-JS291	300	454.264	4.334	0.057	0.017	0.008
JS286-JS310	300	248.069	33.385	0.439	0.735	0.182
JS287-JS288	400	118.776	70.520	0.529	0.750	0.089
JS287-JS290	300	375.519	6.230	0.082	0.033	0.012
JS288-JS289	300	298.181	9.136	0.120	0.067	0.020
JS289-JS290	500	144.293	118.480	0.571	0.670	0.097
JS290-JS291	500	220.362	108.467	0.523	0.569	0.125
JS291-JS292	500	160.180	108.534	0.523	0.569	0.091
JS292-JS293	500	195.532	87.362	0.421	0.381	0.075
JS292-JS311	300	378.057	17.422	0.229	0.221	0.083
JS293-JS294	500	645.608	63.429	0.306	0.211	0.136
JS293-JS312	300	248.336	18.365	0.242	0.243	0.060
JS294-JS295	300	212.906	19.298	0.254	0.267	0.057
JS294-JS308	500	314.326	28.869	0.139	0.049	0.015
JS295-JS296	600	189.113	212.802	0.716	0.829	0.157
JS295-JS307	300	329.249	17.411	0.229	0.221	0.073
JS296-JS297	700	590.315	255.596	0.635	0.556	0.328

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS296-JS298	400	374.956	36.894	0.277	0.226	0.085
JS298-JS299	300	315.367	30.508	0.402	0.622	0.196
JS298-JS305	300	221.698	24.747	0.326	0.423	0.094
JS298-JS307	300	161.173	37.170	0.489	0.897	0.145
JS299-JS300	400	116.116	59.527	0.447	0.548	0.064
JS299-JS303	300	287.004	25.346	0.334	0.442	0.127
JS300-JS301	300	251.177	1.284	0.017	0.002	0.000
JS300-JS302	300	334.667	20.549	0.271	0.300	0.100
JS302-JS303	300	166.425	28.298	0.373	0.542	0.090
JS303-JS304	300	231.393	16.408	0.216	0.198	0.046
JS303-JS305	300	232.630	32.547	0.428	0.702	0.163
JS305-JS306	300	159.403	33.192	0.437	0.727	0.116
JS306-JS307	300	221.686	20.325	0.268	0.294	0.065
JS308-JS309	300	672.199	9.248	0.122	0.068	0.046
JS308-JS312	300	136.170	25.358	0.334	0.442	0.060
JS309-JS310	300	97.237	31.874	0.420	0.675	0.066
JS310-JS311	300	112.799	0.830	0.011	0.001	0.000
JS311-JS312	300	501.400	11.521	0.152	0.103	0.052
JS313-JS314	300	331.368	23.560	0.310	0.386	0.128
JS314-JS315	300	325.917	6.110	0.080	0.032	0.010
JS314-JS317	300	307.965	12.517	0.165	0.120	0.037
JS315-JS316	300	239.841	3.218	0.042	0.010	0.002
JS316-JS317	300	280.151	10.490	0.138	0.086	0.024

二、事故校核

1. 平差计算依据和结果

平差类型		
事故校核		
2、计算公式		
海曾威廉公式		
$V=0.44*C*(Re/C)^{0.075}*(g*D*I)^{0.5}$		
$Re=V*D/\nu$		
计算温度：13℃ $\nu=0.000001$		
3、局部损失系数：1.05		
4、水源点水泵参数：		
无参数		
5、管网平差结果特征参数		
水源点编号	节点流量 (L/s)	节点压力 (m)
JS1	-680.400	478.008
JS63	-340.200	478.042
JS152	-340.200	478.131
JS321	-124.600	476.349
最大管径 (mm) : 1200.00		最小管径 (mm) : 300.00
最大流速 (m/s) : 0.814		最小流速 (m/s) : 0.001
水压最低点 JS21		压力 (m) : 476.13
自由水头最低点 JS61		自由水头 (m) : 28.01

2. 平差计算节点参数

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS1	-660.379	439.520	478.008	38.488
JS2	173.998	440.000	477.943	37.943
JS3	3.277	441.000	477.903	36.903
JS4	5.652	420.000	476.921	56.921
JS5	6.450	417.500	476.835	59.335
JS6	3.074	416.000	476.816	60.816
JS7	2.877	415.000	476.814	61.814
JS8	5.844	415.500	476.814	61.314
JS9	7.603	416.000	476.799	60.799
JS10	3.587	426.000	476.756	50.756
JS11	3.457	425.000	476.572	51.572
JS12	5.652	424.000	476.459	52.459
JS13	5.538	424.000	476.422	52.422
JS14	4.636	427.000	476.390	49.390
JS15	4.657	428.000	476.353	48.353
JS16	5.536	428.000	476.346	48.346
JS17	2.571	426.000	476.341	50.341
JS18	5.689	435.000	476.341	41.341
JS19	6.154	440.000	476.325	36.325
JS20	9.027	431.000	476.285	45.285
JS21	70.781	430.000	476.128	46.128
JS22	5.546	428.000	476.310	48.310
JS23	4.977	427.500	476.328	48.828
JS24	3.146	427.000	476.332	49.332
JS25	1.555	427.500	476.332	48.832
JS26	2.578	428.500	476.333	47.833
JS27	2.696	430.000	476.337	46.337
JS28	4.858	434.500	476.347	41.847
JS29	3.514	445.000	476.346	31.346
JS30	43.006	425.000	476.349	51.349
JS31	3.221	426.000	476.432	50.432
JS32	3.165	425.000	476.457	51.457
JS33	2.600	426.000	476.466	50.466
JS34	3.998	426.000	476.477	50.477
JS35	6.177	427.000	476.568	49.568
JS36	4.391	436.000	476.568	40.568
JS37	4.786	441.000	476.579	35.579
JS38	7.643	430.000	476.653	46.653
JS39	5.320	435.000	476.807	41.807
JS40	2.124	435.000	476.822	41.822

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS41	2. 193	437. 000	476. 840	39. 840
JS42	7. 153	438. 500	476. 877	38. 377
JS43	7. 365	441. 000	477. 094	36. 094
JS44	7. 438	438. 000	477. 245	39. 245
JS45	6. 105	448. 000	477. 511	29. 511
JS46	2. 561	444. 000	477. 521	33. 521
JS47	4. 805	444. 000	477. 542	33. 542
JS48	5. 484	441. 000	477. 529	36. 529
JS49	4. 581	441. 000	477. 521	36. 521
JS50	6. 224	441. 000	477. 521	36. 521
JS51	2. 868	441. 000	477. 522	36. 522
JS52	4. 441	437. 000	477. 533	40. 533
JS53	3. 483	444. 000	477. 547	33. 547
JS54	4. 099	445. 000	477. 595	32. 595
JS55	5. 353	433. 000	477. 788	44. 788
JS56	2. 788	433. 000	477. 828	44. 828
JS60	3. 397	436. 000	477. 882	41. 882
JS61	0. 597	450. 000	478. 012	28. 012
JS62	1. 742	441. 000	478. 025	37. 025
JS63	-405. 048	440. 000	478. 042	38. 042
JS64	1. 175	448. 000	477. 960	29. 960
JS65	2. 748	437. 000	477. 916	40. 916
JS66	2. 248	434. 000	477. 887	43. 887
JS67	5. 021	437. 000	477. 836	40. 836
JS68	7. 702	438. 000	477. 629	39. 629
JS69	3. 011	429. 000	477. 722	48. 722
JS70	6. 088	443. 000	477. 624	34. 624
JS71	2. 718	441. 000	477. 570	36. 570
JS72	2. 914	438. 000	477. 523	39. 523
JS73	3. 650	434. 000	477. 509	43. 509
JS74	3. 189	435. 000	477. 477	42. 477
JS75	2. 943	428. 000	477. 430	49. 430
JS76	5. 200	429. 000	477. 423	48. 423
JS77	2. 521	434. 000	477. 368	43. 368
JS78	5. 300	432. 000	477. 338	45. 338
JS79	4. 969	423. 000	477. 110	54. 110
JS80	5. 944	429. 000	476. 942	47. 942
JS81	2. 317	430. 000	476. 903	46. 903
JS82	3. 581	424. 000	476. 856	52. 856
JS83	4. 143	426. 000	476. 862	50. 862
JS84	1. 735	435. 000	476. 866	41. 866
JS85	2. 717	430. 000	476. 873	46. 873

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS86	1.842	427.000	476.881	49.881
JS87	4.157	424.000	476.890	52.890
JS88	4.449	425.000	476.875	51.875
JS89	3.510	422.500	476.859	54.359
JS90	5.456	422.000	476.797	54.797
JS91	5.061	421.000	476.730	55.730
JS92	5.576	420.000	476.710	56.710
JS93	3.328	425.000	476.654	51.654
JS94	2.972	420.000	476.537	56.537
JS95	4.405	420.000	476.532	56.532
JS96	5.507	429.000	476.495	47.495
JS97	3.499	429.000	476.460	47.460
JS98	3.572	430.000	476.461	46.461
JS99	2.991	431.000	476.487	45.487
JS100	3.347	431.000	476.658	45.658
JS101	3.175	426.000	476.572	50.572
JS102	4.702	430.000	476.472	46.472
JS103	5.326	425.000	476.437	51.437
JS104	2.923	425.000	476.430	51.430
JS105	5.123	428.000	476.403	48.403
JS106	5.153	425.000	476.376	51.376
JS107	2.502	427.000	476.360	49.360
JS108	3.214	430.000	476.344	46.344
JS109	6.140	432.000	476.342	44.342
JS110	6.720	437.000	476.344	39.344
JS111	5.060	429.000	476.345	47.345
JS112	5.120	424.000	476.349	52.349
JS113	4.989	427.000	476.354	49.354
JS114	5.053	426.000	476.343	50.343
JS115	5.459	432.000	476.366	44.366
JS116	3.144	427.000	476.366	49.366
JS117	4.122	434.000	476.351	42.351
JS118	2.555	434.000	476.337	42.337
JS119	2.465	428.000	476.333	48.333
JS120	3.363	433.000	476.379	43.379
JS121	4.938	430.000	476.392	46.392
JS122	6.580	434.000	476.375	42.375
JS123	3.391	426.000	476.477	50.477
JS124	3.615	434.000	476.477	42.477
JS125	4.569	434.000	476.494	42.494
JS126	3.454	424.000	476.470	52.470
JS127	3.864	427.000	476.540	49.540

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS128	4.351	440.000	476.536	36.536
JS129	5.664	434.000	476.668	42.668
JS130	2.103	434.000	476.695	42.695
JS131	3.180	434.000	476.698	42.698
JS132	3.632	435.000	476.818	41.818
JS133	2.912	434.000	476.951	42.951
JS134	6.037	438.000	476.994	38.994
JS135	7.416	444.000	477.172	33.172
JS136	7.309	436.000	477.248	41.248
JS137	5.065	440.000	477.600	37.600
JS138	0.214	440.000	477.602	37.602
JS139	3.615	440.000	477.603	37.603
JS140	6.334	434.000	477.757	43.757
JS141	4.026	448.000	477.595	29.595
JS142	2.712	445.000	477.541	32.541
JS143	4.353	439.000	477.534	38.534
JS144	3.521	439.000	477.529	38.529
JS145	4.280	434.000	477.754	43.754
JS146	3.145	433.000	477.784	44.784
JS147	3.506	430.000	477.752	47.752
JS148	3.132	427.000	477.697	50.697
JS149	2.593	426.000	477.690	51.690
JS150	1.229	426.000	477.720	51.720
JS151	0.000	428.000	477.954	49.954
JS152	-427.634	421.000	478.131	57.131
JS153	0.580	427.000	477.693	50.693
JS154	2.071	432.000	477.684	45.684
JS155	5.523	441.000	477.595	36.595
JS156	4.679	441.000	477.534	36.534
JS157	4.715	441.000	477.482	36.482
JS158	5.625	439.000	477.421	38.421
JS159	4.009	436.000	477.449	41.449
JS160	2.663	428.000	477.380	49.380
JS161	2.572	426.000	477.301	51.301
JS162	2.663	425.000	477.288	52.288
JS163	3.135	425.000	477.229	52.229
JS164	2.994	424.000	477.110	53.110
JS165	2.100	424.500	477.061	52.561
JS166	3.991	425.000	477.039	52.039
JS167	3.475	431.000	476.971	45.971
JS168	3.882	430.500	476.909	46.409
JS169	3.561	430.000	476.907	46.907

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS170	3. 873	424. 000	476. 855	52. 855
JS171	3. 520	423. 000	476. 788	53. 788
JS172	3. 214	423. 000	476. 789	53. 789
JS173	2. 975	422. 000	476. 718	54. 718
JS174	2. 985	420. 000	476. 665	56. 665
JS175	2. 472	423. 000	476. 670	53. 670
JS176	3. 208	422. 000	476. 718	54. 718
JS177	2. 224	420. 000	476. 656	56. 656
JS178	6. 506	422. 500	476. 727	54. 227
JS179	5. 357	421. 000	476. 550	55. 550
JS180	6. 448	423. 000	476. 530	53. 530
JS181	4. 581	426. 000	476. 428	50. 428
JS182	4. 486	426. 000	476. 420	50. 420
JS183	5. 893	423. 000	476. 414	53. 414
JS184	4. 542	428. 000	476. 426	48. 426
JS185	4. 628	429. 000	476. 444	47. 444
JS186	4. 537	425. 500	476. 377	50. 877
JS187	4. 484	431. 000	476. 358	45. 358
JS188	3. 412	425. 000	476. 375	51. 375
JS189	2. 653	423. 000	476. 374	53. 374
JS190	1. 568	424. 000	476. 398	52. 398
JS191	3. 431	423. 000	476. 398	53. 398
JS192	3. 470	425. 000	476. 385	51. 385
JS193	3. 323	420. 000	476. 373	56. 373
JS194	3. 172	432. 000	476. 381	44. 381
JS195	4. 000	433. 000	476. 366	43. 366
JS196	4. 633	424. 000	476. 403	52. 403
JS197	4. 818	424. 000	476. 466	52. 466
JS198	4. 803	432. 800	476. 403	43. 603
JS199	4. 089	429. 000	476. 389	47. 389
JS200	2. 881	430. 000	476. 409	46. 409
JS201	5. 689	430. 000	476. 438	46. 438
JS202	5. 178	434. 000	476. 592	42. 592
JS203	5. 056	434. 000	476. 550	42. 550
JS204	3. 471	430. 000	476. 542	46. 542
JS205	4. 432	434. 000	476. 736	42. 736
JS206	3. 317	435. 000	476. 768	41. 768
JS207	2. 103	435. 000	476. 770	41. 770
JS208	2. 887	434. 000	476. 953	42. 953
JS209	2. 737	438. 000	476. 993	38. 993
JS210	3. 480	440. 000	477. 094	37. 094
JS211	2. 908	445. 000	477. 158	32. 158

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS212	1. 167	444. 000	477. 176	33. 176
JS213	3. 225	441. 000	477. 214	36. 214
JS214	3. 569	436. 000	477. 408	41. 408
JS215	4. 147	436. 000	477. 427	41. 427
JS216	5. 125	439. 000	477. 536	38. 536
JS217	3. 175	440. 000	477. 601	37. 601
JS218	3. 841	435. 000	477. 695	42. 695
JS219	5. 995	443. 000	477. 620	34. 620
JS220	5. 536	438. 000	477. 686	39. 686
JS221	3. 379	430. 000	477. 700	47. 700
JS222	2. 967	429. 000	477. 689	48. 689
JS223	3. 378	433. 000	477. 674	44. 674
JS224	4. 236	432. 000	477. 602	45. 602
JS225	4. 540	433. 000	477. 534	44. 534
JS226	2. 623	433. 000	477. 468	44. 468
JS227	2. 698	432. 000	477. 530	45. 530
JS228	3. 963	433. 000	477. 646	44. 646
JS229	3. 068	426. 000	477. 677	51. 677
JS230	3. 643	426. 000	477. 698	51. 698
JS231	4. 626	429. 000	477. 536	48. 536
JS232	4. 087	433. 000	477. 536	44. 536
JS233	4. 727	434. 000	477. 499	43. 499
JS234	5. 000	426. 000	477. 395	51. 395
JS235	3. 064	425. 000	477. 361	52. 361
JS236	2. 653	425. 000	477. 281	52. 281
JS237	2. 681	425. 000	477. 255	52. 255
JS238	2. 144	425. 000	477. 218	52. 218
JS239	2. 026	425. 000	477. 125	52. 125
JS240	1. 049	425. 000	477. 125	52. 125
JS241	2. 354	425. 000	477. 084	52. 084
JS242	3. 913	425. 000	477. 035	52. 035
JS243	3. 662	427. 000	476. 982	49. 982
JS244	4. 255	419. 000	476. 866	57. 866
JS245	2. 260	423. 000	476. 853	53. 853
JS246	3. 509	423. 000	476. 846	53. 846
JS247	5. 732	425. 000	476. 846	51. 846
JS248	3. 264	422. 800	476. 788	53. 988
JS249	2. 514	422. 000	476. 827	54. 827
JS250	3. 498	423. 000	476. 811	53. 811
JS251	2. 174	423. 000	476. 826	53. 826
JS252	2. 663	422. 000	476. 831	54. 831
JS253	2. 999	422. 000	476. 830	54. 830

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS254	4.043	424.500	476.879	52.379
JS255	6.161	424.000	476.814	52.814
JS256	6.474	423.000	476.668	53.668
JS257	6.884	423.000	476.649	53.649
JS258	4.012	423.000	476.746	53.746
JS259	4.281	425.000	476.892	51.892
JS260	5.186	426.000	476.952	50.952
JS261	3.625	424.000	476.962	52.962
JS262	5.041	423.000	476.991	53.991
JS263	4.564	431.000	476.935	45.935
JS264	4.066	424.000	476.781	52.781
JS265	2.821	425.500	476.575	51.075
JS266	2.688	424.500	476.487	51.987
JS267	4.261	422.000	476.424	54.424
JS268	3.233	425.000	476.518	51.518
JS269	3.212	432.000	476.821	44.821
JS270	2.792	437.000	476.819	39.819
JS271	2.885	437.000	476.777	39.777
JS272	3.787	435.000	476.722	41.722
JS273	2.085	439.000	476.849	37.849
JS274	2.122	440.000	476.867	36.867
JS275	2.815	438.000	476.866	38.866
JS276	2.993	435.000	476.941	41.941
JS277	3.947	436.000	476.990	40.990
JS278	2.815	439.000	477.019	38.019
JS279	3.551	446.000	477.018	31.018
JS280	5.118	432.000	477.083	45.083
JS281	2.800	432.000	477.145	45.145
JS282	2.563	437.000	477.158	40.158
JS283	2.547	444.000	477.203	33.203
JS284	3.149	433.000	477.175	44.175
JS285	3.658	433.000	477.176	44.176
JS286	4.162	427.000	477.322	50.322
JS287	2.233	435.000	477.396	42.396
JS288	2.983	439.000	477.458	38.458
JS289	2.902	426.500	477.471	50.971
JS290	2.648	430.000	477.405	47.405
JS291	2.987	427.000	477.317	50.317
JS292	2.625	426.000	477.253	51.253
JS293	3.898	426.000	477.199	51.199
JS294	5.639	427.000	477.099	50.099
JS295	4.108	427.000	477.144	50.144

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS296	4.130	426.000	477.248	51.248
JS297	5.016	427.000	477.461	50.461
JS298	3.840	427.000	477.198	50.198
JS299	2.570	426.000	477.321	51.321
JS300	3.077	426.000	477.360	51.360
JS301	0.899	427.000	477.359	50.359
JS302	3.059	425.000	477.298	52.298
JS303	3.282	425.000	477.245	52.245
JS304	2.236	426.000	477.218	51.218
JS305	3.653	426.000	477.144	51.144
JS306	4.105	425.500	477.071	51.571
JS307	4.052	426.000	477.106	51.106
JS308	4.017	424.000	477.111	53.111
JS309	3.947	430.000	477.144	47.144
JS310	1.639	427.000	477.193	50.193
JS311	3.550	427.000	477.193	50.193
JS312	3.170	425.000	477.157	52.157
JS313	4.362	437.000	476.991	39.991
JS314	3.453	443.000	476.894	33.894
JS315	2.024	438.000	476.888	38.888
JS316	3.882	433.000	476.887	43.887
JS317	3.978	438.500	476.857	38.357
JS318	1.994	423.000	476.401	53.401
JS319	2.867	427.000	476.875	49.875
JS320	2.831	448.000	477.800	29.800
JS321	7.664	424.773	476.349	51.576

3. 平差计算管道参数

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS1-JS2	1000	113.466	660.379	0.807	0.576	0.065
JS2-JS3	1000	410.507	251.176	0.307	0.096	0.040
JS2-JS65	1000	309.719	235.205	0.287	0.085	0.026
JS3-JS4	800	4253.696	225.240	0.429	0.231	0.982
JS3-JS69	300	505.446	22.659	0.298	0.359	0.181
JS4-JS5	400	931.632	22.756	0.171	0.093	0.086
JS4-JS87	700	278.438	107.081	0.266	0.111	0.031
JS4-JS89	600	369.617	89.751	0.302	0.168	0.062
JS5-JS6	300	620.271	5.999	0.079	0.031	0.019
JS5-JS8	300	251.193	10.306	0.136	0.084	0.021
JS6-JS7	300	239.100	2.925	0.038	0.008	0.002
JS7-JS8	300	564.978	0.048	0.001	0.000	0.000
JS8-JS9	300	817.115	4.510	0.059	0.018	0.015
JS9-JS10	600	333.764	78.051	0.263	0.130	0.043
JS9-JS89	600	324.249	94.574	0.318	0.185	0.060
JS9-JS92	300	650.046	13.431	0.177	0.136	0.089
JS10-JS11	300	411.718	25.478	0.335	0.446	0.184
JS10-JS100	400	257.162	48.986	0.367	0.382	0.098
JS11-JS12	300	364.942	20.910	0.275	0.309	0.113
JS11-JS101	300	189.513	1.111	0.015	0.001	0.000
JS12-JS13	300	671.318	8.212	0.108	0.055	0.037
JS12-JS103	300	543.525	7.047	0.093	0.041	0.022
JS13-JS14	300	475.542	9.195	0.121	0.068	0.032
JS13-JS103	300	401.036	6.521	0.086	0.036	0.014
JS14-JS15	300	419.506	10.672	0.140	0.089	0.037
JS14-JS105	300	400.825	6.113	0.080	0.032	0.013
JS15-JS16	400	278.355	11.108	0.083	0.025	0.007
JS15-JS18	300	328.340	6.448	0.085	0.035	0.012
JS15-JS107	400	275.506	11.541	0.087	0.026	0.007
JS16-JS17	300	718.653	2.571	0.034	0.006	0.005
JS16-JS18	300	550.551	3.000	0.039	0.009	0.005
JS18-JS19	300	407.935	6.852	0.090	0.039	0.016
JS18-JS108	300	303.274	3.093	0.041	0.009	0.003
JS19-JS20	300	874.527	7.436	0.098	0.046	0.040
JS19-JS109	300	437.518	6.737	0.089	0.038	0.017
JS20-JS21	500	609.616	70.781	0.341	0.258	0.157
JS20-JS22	300	377.219	8.995	0.118	0.065	0.025
JS20-JS110	600	661.980	63.378	0.213	0.088	0.058
JS22-JS23	300	502.101	6.536	0.086	0.036	0.018

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS22-JS111	300	670.932	8.005	0.105	0.052	0.035
JS23-JS24	300	132.371	5.798	0.076	0.029	0.004
JS23-JS112	300	756.758	5.715	0.075	0.028	0.021
JS24-JS25	300	166.021	0.374	0.005	0.000	0.000
JS24-JS114	300	306.039	6.621	0.087	0.037	0.011
JS24-JS119	300	274.986	1.949	0.026	0.004	0.001
JS25-JS26	300	268.502	1.929	0.025	0.004	0.001
JS26-JS27	300	277.065	4.259	0.056	0.016	0.005
JS26-JS119	300	175.046	0.248	0.003	0.000	0.000
JS27-JS28	300	276.292	6.299	0.083	0.034	0.009
JS27-JS118	300	200.317	0.657	0.009	0.001	0.000
JS28-JS29	300	241.716	1.476	0.019	0.002	0.001
JS28-JS117	300	196.415	5.289	0.070	0.024	0.005
JS28-JS122	300	643.446	7.343	0.097	0.045	0.029
JS29-JS30	300	740.541	2.038	0.027	0.004	0.003
JS30-JS31	300	278.544	20.528	0.270	0.299	0.083
JS30-JS122	500	436.127	32.179	0.155	0.060	0.026
JS30-JS321	800	324.470	7.664	0.015	0.000	0.000
JS31-JS32	300	253.238	11.158	0.147	0.097	0.025
JS31-JS124	300	368.689	12.592	0.166	0.121	0.045
JS32-JS33	300	461.554	4.607	0.061	0.019	0.009
JS32-JS126	300	170.021	9.716	0.128	0.075	0.013
JS33-JS34	300	265.357	7.208	0.095	0.043	0.011
JS34-JS35	300	482.093	15.964	0.210	0.188	0.091
JS34-JS126	300	369.966	4.759	0.063	0.020	0.007
JS35-JS36	300	815.602	0.927	0.012	0.001	0.001
JS35-JS38	400	323.047	40.175	0.301	0.265	0.086
JS35-JS127	300	105.971	18.961	0.250	0.258	0.027
JS36-JS37	300	411.717	5.318	0.070	0.025	0.010
JS37-JS38	300	925.962	10.104	0.133	0.081	0.075
JS38-JS39	400	443.538	46.493	0.349	0.347	0.154
JS38-JS131	300	443.868	11.430	0.150	0.101	0.045
JS39-JS40	300	334.753	7.317	0.096	0.044	0.015
JS39-JS42	400	279.413	39.076	0.293	0.252	0.070
JS39-JS132	300	429.231	5.419	0.071	0.025	0.011
JS40-JS41	300	259.062	9.442	0.124	0.071	0.018
JS41-JS42	300	353.858	11.635	0.153	0.105	0.037
JS42-JS43	400	767.032	41.585	0.312	0.282	0.216
JS42-JS134	300	599.030	16.278	0.214	0.195	0.117
JS43-JS44	400	711.452	35.641	0.267	0.212	0.151
JS43-JS135	300	580.056	13.309	0.175	0.134	0.078

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS44-JS45	400	1022.366	39.825	0.299	0.261	0.266
JS44-JS136	300	345.022	3.254	0.043	0.010	0.003
JS45-JS46	300	346.516	5.742	0.076	0.028	0.010
JS45-JS137	400	337.553	40.188	0.301	0.265	0.089
JS46-JS47	300	369.475	8.303	0.109	0.056	0.021
JS47-JS48	300	700.116	4.463	0.059	0.018	0.012
JS47-JS139	300	273.385	17.571	0.231	0.224	0.061
JS48-JS49	300	336.025	5.109	0.067	0.023	0.008
JS48-JS142	300	258.847	7.558	0.099	0.047	0.012
JS48-JS144	300	238.111	1.428	0.019	0.002	0.001
JS49-JS50	300	944.319	0.528	0.007	0.000	0.000
JS50-JS51	300	237.353	1.864	0.025	0.004	0.001
JS50-JS144	300	557.959	3.832	0.050	0.013	0.007
JS51-JS52	300	564.264	4.731	0.062	0.020	0.011
JS52-JS53	300	309.219	7.458	0.098	0.046	0.014
JS52-JS143	300	367.726	1.715	0.023	0.003	0.001
JS53-JS54	300	228.897	16.871	0.222	0.208	0.048
JS53-JS143	300	435.488	5.930	0.078	0.030	0.013
JS54-JS55	300	617.222	21.026	0.277	0.313	0.193
JS54-JS141	300	299.668	0.056	0.001	0.000	0.000
JS55-JS56	1200	336.001	454.332	0.386	0.120	0.040
JS55-JS140	1200	513.617	315.178	0.268	0.061	0.031
JS55-JS146	700	29.474	112.776	0.280	0.122	0.004
JS56-JS60	1200	443.262	457.120	0.388	0.121	0.054
JS60-JS61	400	303.049	52.113	0.391	0.428	0.130
JS60-JS66	1200	26.965	579.630	0.493	0.188	0.005
JS60-JS67	800	327.729	171.226	0.326	0.139	0.046
JS61-JS62	400	30.690	52.710	0.395	0.438	0.013
JS62-JS63	800	24.800	405.048	0.771	0.684	0.017
JS62-JS64	300	368.933	15.430	0.203	0.176	0.065
JS62-JS66	800	286.975	335.166	0.638	0.482	0.138
JS64-JS65	300	287.621	14.255	0.188	0.152	0.044
JS65-JS66	1000	314.621	246.712	0.301	0.093	0.029
JS67-JS68	300	724.115	20.054	0.264	0.286	0.207
JS67-JS320	800	351.715	146.151	0.278	0.104	0.036
JS68-JS69	300	336.382	19.648	0.259	0.276	0.093
JS68-JS70	800	723.173	32.000	0.061	0.006	0.005
JS70-JS71	600	309.988	91.898	0.309	0.175	0.054
JS70-JS155	600	228.698	77.334	0.260	0.127	0.029
JS70-JS320	600	439.739	143.319	0.482	0.399	0.175
JS71-JS72	500	157.817	76.406	0.368	0.297	0.047

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS71-JS156	300	291.904	12.774	0.168	0.124	0.036
JS72-JS73	500	241.662	31.344	0.151	0.057	0.014
JS72-JS157	500	415.092	42.148	0.203	0.099	0.041
JS73-JS74	300	256.444	12.823	0.169	0.125	0.032
JS73-JS76	300	522.083	14.871	0.196	0.165	0.086
JS74-JS75	300	634.893	9.633	0.127	0.074	0.047
JS75-JS76	300	187.641	6.691	0.088	0.038	0.007
JS76-JS77	300	391.083	13.636	0.180	0.140	0.055
JS76-JS158	300	352.587	2.727	0.036	0.007	0.003
JS77-JS78	300	313.564	11.115	0.146	0.096	0.030
JS78-JS79	300	517.145	25.352	0.334	0.442	0.229
JS78-JS158	400	388.115	35.677	0.268	0.213	0.082
JS78-JS162	300	262.438	16.140	0.212	0.192	0.050
JS79-JS80	300	514.328	21.541	0.284	0.327	0.168
JS79-JS164	300	357.353	1.157	0.015	0.001	0.001
JS80-JS81	300	242.933	14.605	0.192	0.159	0.039
JS80-JS166	300	690.678	13.659	0.180	0.141	0.097
JS80-JS169	300	213.475	14.651	0.193	0.160	0.034
JS81-JS82	300	404.644	12.288	0.162	0.116	0.047
JS82-JS83	600	301.645	29.425	0.099	0.021	0.006
JS82-JS170	400	20.393	19.657	0.147	0.071	0.001
JS82-JS172	300	274.055	18.476	0.243	0.246	0.067
JS83-JS84	300	239.495	4.008	0.053	0.015	0.003
JS83-JS90	400	331.398	34.203	0.257	0.197	0.065
JS83-JS319	700	285.633	63.763	0.158	0.043	0.012
JS84-JS85	300	245.557	5.743	0.076	0.028	0.007
JS85-JS86	300	307.120	5.485	0.072	0.026	0.008
JS85-JS319	300	206.753	2.975	0.039	0.008	0.002
JS86-JS87	300	207.833	7.328	0.096	0.044	0.009
JS87-JS88	500	366.603	25.992	0.125	0.040	0.015
JS87-JS319	700	309.033	69.605	0.173	0.050	0.016
JS88-JS89	300	287.373	8.333	0.110	0.056	0.016
JS88-JS90	300	589.598	13.209	0.174	0.132	0.078
JS90-JS91	400	311.367	36.049	0.270	0.217	0.067
JS90-JS172	300	292.574	5.907	0.078	0.030	0.009
JS91-JS92	300	543.521	6.504	0.086	0.036	0.019
JS91-JS173	300	291.563	6.905	0.091	0.040	0.012
JS91-JS175	300	268.143	17.578	0.231	0.224	0.060
JS92-JS93	300	365.152	14.359	0.189	0.154	0.056
JS93-JS94	300	370.504	21.101	0.278	0.315	0.117
JS93-JS175	300	194.564	10.069	0.133	0.080	0.016

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS94-JS95	500	58.684	39.300	0.189	0.087	0.005
JS94-JS174	300	401.397	21.171	0.279	0.317	0.127
JS95-JS96	500	252.120	52.326	0.252	0.148	0.037
JS95-JS177	300	440.488	19.847	0.261	0.281	0.124
JS95-JS180	300	480.000	2.416	0.032	0.006	0.003
JS96-JS97	300	207.951	15.083	0.199	0.169	0.035
JS96-JS181	300	832.549	10.072	0.133	0.080	0.067
JS96-JS183	300	246.731	21.664	0.285	0.330	0.082
JS97-JS98	300	507.455	1.490	0.020	0.002	0.001
JS97-JS184	300	262.596	13.074	0.172	0.130	0.034
JS98-JS99	300	189.109	13.524	0.178	0.138	0.026
JS98-JS185	300	301.945	8.462	0.111	0.058	0.018
JS99-JS100	300	390.481	25.172	0.331	0.436	0.170
JS99-JS102	300	256.379	8.656	0.114	0.061	0.016
JS100-JS101	300	287.869	20.467	0.269	0.297	0.086
JS101-JS102	300	410.071	18.404	0.242	0.244	0.100
JS102-JS103	300	349.094	11.364	0.150	0.100	0.035
JS102-JS185	300	298.727	10.994	0.145	0.094	0.028
JS103-JS104	300	195.074	6.564	0.086	0.036	0.007
JS104-JS105	300	294.258	10.782	0.142	0.091	0.027
JS104-JS185	300	327.770	7.142	0.094	0.042	0.014
JS105-JS106	300	416.495	9.013	0.119	0.065	0.027
JS105-JS184	300	320.520	9.467	0.125	0.071	0.023
JS106-JS107	400	168.328	22.875	0.172	0.093	0.016
JS106-JS183	400	333.030	25.414	0.191	0.113	0.038
JS106-JS187	300	522.623	6.399	0.084	0.035	0.018
JS107-JS108	300	255.440	8.832	0.116	0.063	0.016
JS108-JS109	300	339.640	2.525	0.033	0.006	0.002
JS109-JS110	300	685.417	1.565	0.021	0.003	0.002
JS109-JS187	300	253.649	8.787	0.116	0.062	0.016
JS110-JS111	300	213.831	2.487	0.033	0.006	0.001
JS110-JS186	600	317.043	69.176	0.233	0.104	0.033
JS111-JS112	300	189.568	5.015	0.066	0.022	0.004
JS111-JS188	300	340.189	10.537	0.139	0.087	0.030
JS112-JS113	300	152.256	6.068	0.080	0.031	0.005
JS112-JS189	300	332.777	9.783	0.129	0.076	0.025
JS113-JS114	300	481.199	5.096	0.067	0.023	0.011
JS113-JS193	300	195.776	11.189	0.147	0.097	0.019
JS113-JS195	300	565.338	4.963	0.065	0.022	0.012
JS114-JS115	300	625.074	6.578	0.087	0.036	0.023
JS115-JS116	300	199.147	0.913	0.012	0.001	0.000

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS115-JS195	300	364.346	0.975	0.013	0.001	0.000
JS115-JS198	300	337.242	11.975	0.158	0.110	0.037
JS116-JS117	300	339.046	7.104	0.094	0.042	0.014
JS116-JS199	300	340.668	9.335	0.123	0.070	0.024
JS117-JS118	300	274.883	7.874	0.104	0.051	0.014
JS117-JS120	300	341.840	10.181	0.134	0.082	0.028
JS118-JS119	300	238.972	4.662	0.061	0.019	0.005
JS120-JS121	300	243.806	7.811	0.103	0.050	0.012
JS120-JS199	300	354.499	5.733	0.075	0.028	0.010
JS121-JS122	500	374.996	26.918	0.130	0.043	0.016
JS121-JS200	400	355.193	15.998	0.120	0.048	0.017
JS121-JS203	300	406.263	23.670	0.312	0.389	0.158
JS122-JS123	300	384.683	19.184	0.253	0.264	0.101
JS123-JS124	400	352.925	1.634	0.012	0.001	0.000
JS123-JS204	300	210.208	20.942	0.276	0.310	0.065
JS124-JS125	400	288.808	17.841	0.134	0.059	0.017
JS125-JS126	300	425.465	8.411	0.111	0.057	0.024
JS125-JS127	300	389.639	12.446	0.164	0.118	0.046
JS125-JS128	300	173.251	18.375	0.242	0.244	0.042
JS127-JS128	300	584.374	2.651	0.035	0.007	0.004
JS128-JS129	300	458.616	20.075	0.264	0.287	0.132
JS129-JS130	400	253.583	24.719	0.185	0.108	0.027
JS129-JS204	300	586.476	17.158	0.226	0.215	0.126
JS129-JS205	300	284.650	18.178	0.239	0.239	0.068
JS130-JS131	300	73.725	6.783	0.089	0.039	0.003
JS130-JS207	300	260.446	20.039	0.264	0.286	0.074
JS131-JS132	300	371.304	21.394	0.282	0.323	0.120
JS132-JS133	300	214.803	30.445	0.401	0.620	0.133
JS133-JS134	500	276.127	53.720	0.259	0.155	0.043
JS133-JS207	300	298.686	30.106	0.396	0.607	0.181
JS133-JS208	300	24.241	9.743	0.128	0.075	0.002
JS134-JS135	600	787.670	105.294	0.354	0.226	0.178
JS134-JS209	500	24.623	29.260	0.141	0.050	0.001
JS135-JS136	600	679.547	72.349	0.244	0.113	0.077
JS135-JS212	500	25.695	53.670	0.259	0.155	0.004
JS136-JS137	500	1018.356	82.912	0.400	0.346	0.352
JS137-JS138	800	31.640	87.568	0.167	0.040	0.001
JS137-JS217	800	28.303	40.597	0.077	0.010	0.000
JS138-JS139	800	28.174	87.782	0.167	0.040	0.001
JS139-JS140	800	676.618	223.337	0.425	0.227	0.154
JS139-JS217	800	32.411	114.368	0.218	0.066	0.002

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS140-JS141	300	551.820	20.302	0.267	0.293	0.162
JS140-JS145	600	28.238	65.205	0.220	0.093	0.003
JS141-JS142	300	273.834	16.333	0.215	0.196	0.054
JS142-JS143	300	225.375	6.063	0.080	0.031	0.007
JS143-JS144	300	188.053	5.925	0.078	0.030	0.006
JS145-JS146	300	522.886	8.451	0.111	0.058	0.030
JS145-JS218	400	252.322	37.456	0.281	0.233	0.059
JS145-JS220	400	392.738	31.919	0.239	0.173	0.068
JS146-JS147	700	326.684	101.180	0.251	0.100	0.033
JS147-JS148	600	392.070	81.276	0.274	0.140	0.055
JS147-JS221	300	261.209	16.398	0.216	0.197	0.052
JS148-JS149	800	239.402	72.202	0.137	0.028	0.007
JS148-JS222	300	243.828	5.942	0.078	0.030	0.007
JS149-JS150	500	185.195	54.693	0.264	0.160	0.030
JS149-JS223	300	252.043	8.968	0.118	0.065	0.016
JS149-JS229	600	48.350	115.334	0.388	0.267	0.013
JS150-JS151	800	309.908	427.634	0.814	0.756	0.234
JS150-JS153	300	118.224	17.622	0.232	0.225	0.027
JS150-JS230	800	40.172	354.089	0.674	0.533	0.021
JS151-JS152	800	234.265	427.634	0.814	0.756	0.177
JS153-JS154	300	43.871	17.043	0.224	0.212	0.009
JS154-JS155	500	421.028	63.361	0.305	0.210	0.089
JS154-JS230	500	113.816	48.389	0.233	0.128	0.015
JS155-JS156	600	362.603	90.267	0.304	0.170	0.062
JS155-JS232	500	531.502	44.905	0.216	0.111	0.059
JS156-JS157	500	328.313	54.193	0.261	0.158	0.052
JS156-JS233	500	324.889	44.169	0.213	0.108	0.035
JS157-JS158	400	412.301	29.401	0.221	0.149	0.061
JS157-JS159	500	162.217	62.224	0.300	0.203	0.033
JS158-JS159	300	419.357	9.174	0.121	0.067	0.028
JS159-JS160	500	303.210	66.027	0.318	0.227	0.069
JS159-JS233	300	235.747	16.987	0.224	0.211	0.050
JS160-JS161	300	243.584	21.535	0.283	0.327	0.080
JS160-JS235	500	197.421	41.829	0.202	0.098	0.019
JS161-JS162	300	288.800	7.260	0.096	0.044	0.013
JS161-JS236	300	186.570	11.704	0.154	0.106	0.020
JS162-JS163	300	193.124	20.737	0.273	0.305	0.059
JS163-JS164	300	301.256	23.845	0.314	0.395	0.119
JS163-JS236	300	251.193	16.782	0.221	0.206	0.052
JS163-JS238	300	130.505	10.539	0.139	0.087	0.011
JS164-JS165	300	178.313	19.694	0.259	0.277	0.049

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS165-JS166	400	108.943	34.757	0.261	0.203	0.022
JS165-JS239	300	299.726	17.162	0.226	0.215	0.064
JS166-JS167	300	315.854	17.107	0.225	0.213	0.067
JS167-JS168	300	238.651	19.111	0.252	0.262	0.063
JS167-JS243	300	416.666	5.479	0.072	0.026	0.011
JS168-JS169	300	374.951	1.977	0.026	0.004	0.001
JS168-JS247	300	471.514	13.251	0.174	0.133	0.063
JS169-JS170	300	406.970	13.067	0.172	0.130	0.053
JS170-JS171	300	273.703	18.310	0.241	0.242	0.066
JS170-JS247	400	381.440	10.541	0.079	0.022	0.008
JS171-JS172	300	20.277	3.531	0.046	0.012	0.000
JS171-JS176	300	308.979	17.702	0.233	0.227	0.070
JS171-JS248	300	380.766	0.619	0.008	0.000	0.000
JS172-JS173	300	311.443	17.639	0.232	0.226	0.070
JS173-JS174	300	204.570	19.120	0.252	0.262	0.054
JS173-JS176	300	23.974	2.450	0.032	0.006	0.000
JS174-JS175	300	228.402	5.036	0.066	0.022	0.005
JS176-JS177	300	181.113	22.071	0.291	0.342	0.062
JS176-JS178	300	382.716	5.127	0.067	0.023	0.009
JS178-JS179	300	628.756	19.841	0.261	0.281	0.177
JS178-JS248	300	309.559	16.426	0.216	0.198	0.061
JS178-JS250	300	497.430	15.048	0.198	0.168	0.084
JS179-JS180	600	101.096	99.856	0.336	0.204	0.021
JS179-JS256	600	767.550	85.372	0.287	0.153	0.117
JS180-JS181	600	414.548	109.890	0.370	0.244	0.101
JS180-JS257	300	806.500	14.065	0.185	0.149	0.120
JS181-JS182	600	33.250	115.381	0.388	0.267	0.009
JS182-JS183	300	746.208	2.892	0.038	0.008	0.006
JS182-JS186	600	289.775	83.960	0.283	0.148	0.043
JS182-JS318	400	184.642	24.044	0.180	0.102	0.019
JS183-JS184	300	321.079	6.751	0.089	0.038	0.012
JS184-JS185	300	365.353	7.685	0.101	0.049	0.018
JS186-JS187	300	477.057	6.871	0.090	0.039	0.019
JS186-JS188	300	184.314	3.376	0.044	0.011	0.002
JS188-JS189	300	177.145	0.977	0.013	0.001	0.000
JS188-JS318	300	252.158	11.552	0.152	0.103	0.026
JS189-JS190	300	231.603	11.458	0.151	0.102	0.024
JS190-JS191	400	85.922	2.528	0.019	0.002	0.000
JS190-JS318	400	120.692	10.498	0.079	0.022	0.003
JS191-JS192	300	220.024	8.423	0.111	0.058	0.013
JS191-JS267	400	653.020	14.382	0.108	0.040	0.026

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS192-JS193	300	139.174	10.693	0.141	0.089	0.012
JS192-JS196	300	610.602	5.740	0.076	0.028	0.017
JS193-JS194	300	593.833	3.819	0.050	0.013	0.008
JS194-JS195	300	188.516	9.939	0.131	0.078	0.015
JS194-JS196	300	104.261	16.930	0.223	0.209	0.022
JS196-JS197	300	414.781	14.300	0.188	0.153	0.064
JS196-JS267	300	165.237	13.002	0.171	0.128	0.021
JS197-JS198	300	554.056	12.202	0.161	0.114	0.063
JS197-JS266	300	144.415	13.953	0.184	0.146	0.021
JS197-JS268	300	233.509	17.367	0.229	0.219	0.051
JS198-JS199	300	203.631	9.159	0.121	0.067	0.014
JS198-JS201	300	247.424	13.735	0.181	0.142	0.035
JS199-JS200	300	244.344	9.998	0.132	0.079	0.019
JS200-JS201	400	205.626	28.877	0.217	0.144	0.030
JS201-JS202	300	609.609	18.700	0.246	0.252	0.153
JS201-JS268	400	527.457	29.600	0.222	0.150	0.079
JS202-JS203	300	286.109	13.968	0.184	0.147	0.042
JS202-JS272	400	551.658	37.845	0.284	0.237	0.131
JS203-JS204	300	173.591	7.255	0.096	0.044	0.008
JS203-JS205	300	547.350	22.013	0.290	0.340	0.186
JS205-JS206	500	207.819	53.839	0.259	0.156	0.032
JS205-JS272	300	198.856	9.216	0.121	0.068	0.014
JS206-JS207	300	28.919	7.964	0.105	0.052	0.002
JS206-JS208	300	293.341	30.701	0.404	0.630	0.185
JS206-JS275	300	396.994	18.490	0.243	0.246	0.098
JS208-JS209	500	274.402	51.779	0.250	0.145	0.040
JS208-JS276	300	214.899	8.448	0.111	0.058	0.012
JS209-JS210	300	185.544	28.352	0.373	0.543	0.101
JS209-JS277	300	280.453	3.095	0.041	0.009	0.003
JS210-JS211	500	474.498	50.015	0.241	0.136	0.064
JS210-JS278	300	312.609	18.183	0.239	0.239	0.075
JS211-JS212	500	128.470	50.210	0.242	0.137	0.018
JS211-JS282	400	210.070	2.713	0.020	0.002	0.000
JS212-JS213	600	172.100	105.047	0.354	0.225	0.039
JS213-JS214	600	519.207	138.353	0.466	0.374	0.194
JS213-JS283	500	210.057	30.081	0.145	0.053	0.011
JS214-JS215	600	57.579	128.135	0.431	0.324	0.019
JS214-JS226	300	420.802	13.787	0.181	0.143	0.060
JS215-JS216	600	551.848	98.161	0.330	0.198	0.109
JS215-JS225	400	549.725	34.121	0.256	0.196	0.108
JS216-JS217	600	398.453	88.023	0.296	0.162	0.065

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS216-JS219	300	482.236	15.263	0.201	0.173	0.083
JS217-JS218	300	428.266	17.427	0.229	0.221	0.095
JS218-JS219	300	393.034	16.189	0.213	0.193	0.076
JS219-JS220	300	246.984	19.394	0.255	0.269	0.066
JS219-JS225	300	553.500	14.325	0.189	0.154	0.085
JS220-JS221	300	339.577	7.015	0.092	0.041	0.014
JS220-JS224	300	568.114	14.004	0.184	0.147	0.084
JS221-JS222	300	343.743	6.004	0.079	0.031	0.011
JS222-JS223	300	241.848	8.979	0.118	0.065	0.016
JS223-JS224	300	450.453	14.568	0.192	0.159	0.071
JS224-JS225	300	165.559	24.336	0.320	0.410	0.068
JS226-JS227	300	312.379	16.410	0.216	0.198	0.062
JS227-JS228	300	441.633	19.108	0.252	0.262	0.116
JS228-JS229	600	249.310	76.627	0.258	0.125	0.031
JS228-JS288	400	416.796	53.555	0.402	0.451	0.188
JS229-JS230	600	191.107	71.695	0.241	0.111	0.021
JS229-JS289	500	368.762	107.334	0.517	0.558	0.206
JS230-JS231	800	673.342	230.362	0.438	0.241	0.162
JS231-JS232	600	283.663	4.767	0.016	0.001	0.000
JS231-JS297	800	335.973	220.970	0.420	0.223	0.075
JS232-JS233	500	327.142	45.585	0.220	0.114	0.037
JS233-JS234	500	433.522	68.040	0.328	0.240	0.104
JS234-JS235	300	330.138	11.485	0.151	0.102	0.034
JS234-JS297	300	475.797	13.644	0.180	0.140	0.067
JS234-JS300	500	158.117	65.199	0.314	0.222	0.035
JS235-JS236	300	186.546	24.954	0.329	0.429	0.080
JS235-JS302	300	142.234	25.296	0.333	0.440	0.063
JS236-JS237	300	117.182	17.223	0.227	0.216	0.025
JS237-JS238	300	225.890	14.995	0.197	0.167	0.038
JS237-JS302	300	211.638	16.613	0.219	0.202	0.043
JS237-JS304	300	194.723	16.160	0.213	0.192	0.037
JS238-JS239	300	243.012	23.390	0.308	0.381	0.093
JS239-JS240	300	23.609	4.201	0.055	0.016	0.000
JS240-JS241	300	70.483	29.319	0.386	0.578	0.041
JS240-JS304	300	199.087	26.166	0.344	0.469	0.093
JS241-JS242	400	180.182	40.941	0.307	0.274	0.049
JS241-JS305	300	407.357	13.976	0.184	0.147	0.060
JS242-JS243	300	105.600	27.014	0.356	0.497	0.052
JS242-JS254	300	469.095	21.749	0.286	0.333	0.156
JS242-JS306	300	338.898	11.735	0.154	0.106	0.036
JS243-JS244	300	501.492	17.873	0.235	0.231	0.116

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS244-JS245	400	115.072	25.438	0.191	0.114	0.013
JS244-JS252	300	430.307	10.237	0.135	0.083	0.036
JS244-JS254	400	142.534	22.058	0.165	0.087	0.012
JS245-JS246	400	183.718	13.846	0.104	0.037	0.007
JS245-JS253	300	332.713	9.333	0.123	0.070	0.023
JS246-JS247	400	527.317	1.011	0.008	0.000	0.000
JS246-JS249	300	269.897	9.326	0.123	0.069	0.019
JS247-JS248	300	221.946	19.071	0.251	0.261	0.058
JS249-JS250	300	206.572	10.176	0.134	0.082	0.017
JS249-JS253	300	226.355	3.364	0.044	0.011	0.002
JS250-JS251	300	273.700	8.370	0.110	0.057	0.016
JS251-JS252	300	184.470	5.222	0.069	0.024	0.004
JS251-JS253	300	149.527	5.322	0.070	0.025	0.004
JS252-JS253	300	129.606	2.352	0.031	0.005	0.001
JS254-JS255	300	343.200	15.941	0.210	0.187	0.064
JS254-JS259	400	175.407	20.293	0.152	0.075	0.013
JS255-JS256	600	713.207	100.110	0.337	0.205	0.146
JS255-JS258	300	332.646	16.699	0.220	0.204	0.068
JS255-JS259	600	333.036	107.029	0.360	0.232	0.077
JS256-JS257	300	328.834	8.263	0.109	0.056	0.018
JS257-JS258	300	788.982	12.687	0.167	0.123	0.097
JS259-JS260	600	260.798	106.976	0.360	0.232	0.061
JS259-JS306	300	427.387	24.627	0.324	0.419	0.179
JS260-JS261	300	506.939	4.780	0.063	0.020	0.010
JS260-JS262	600	261.487	84.506	0.284	0.150	0.039
JS260-JS307	300	420.506	22.876	0.301	0.365	0.154
JS261-JS262	300	506.461	8.405	0.111	0.057	0.029
JS262-JS263	400	224.325	38.982	0.292	0.250	0.056
JS262-JS295	600	416.825	136.935	0.461	0.367	0.153
JS263-JS264	500	357.245	93.487	0.451	0.432	0.154
JS263-JS294	500	403.474	90.448	0.436	0.406	0.164
JS263-JS316	400	290.733	31.378	0.235	0.168	0.049
JS264-JS265	500	411.760	101.308	0.488	0.501	0.206
JS264-JS269	300	367.370	11.886	0.156	0.109	0.040
JS265-JS266	400	234.173	48.286	0.362	0.372	0.087
JS265-JS268	400	142.615	50.200	0.377	0.400	0.057
JS266-JS267	400	372.755	31.645	0.237	0.170	0.063
JS269-JS270	300	255.831	3.093	0.041	0.009	0.002
JS269-JS316	300	274.461	18.191	0.239	0.239	0.066
JS270-JS271	300	267.124	14.397	0.190	0.155	0.041
JS270-JS317	300	257.438	14.095	0.186	0.149	0.038

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS271-JS272	400	308.007	32.416	0.243	0.178	0.055
JS271-JS273	300	231.192	20.904	0.275	0.309	0.071
JS273-JS274	300	85.141	16.928	0.223	0.209	0.018
JS273-JS317	300	266.362	6.061	0.080	0.031	0.008
JS274-JS275	300	111.456	1.988	0.026	0.004	0.000
JS274-JS313	300	396.723	21.038	0.277	0.313	0.124
JS275-JS276	300	278.546	19.318	0.254	0.267	0.074
JS276-JS277	300	343.153	13.863	0.182	0.145	0.050
JS277-JS278	300	212.015	13.369	0.176	0.135	0.029
JS277-JS313	300	267.544	1.346	0.018	0.002	0.001
JS278-JS279	300	262.156	1.999	0.026	0.004	0.001
JS279-JS280	500	506.963	48.603	0.234	0.129	0.065
JS279-JS313	500	223.445	47.052	0.227	0.121	0.027
JS280-JS281	300	277.334	17.547	0.231	0.224	0.062
JS280-JS285	300	312.494	20.463	0.269	0.297	0.093
JS280-JS309	300	333.645	15.711	0.207	0.182	0.061
JS281-JS282	300	208.735	8.874	0.117	0.063	0.013
JS281-JS284	300	296.674	11.472	0.151	0.102	0.030
JS282-JS283	300	297.495	14.151	0.186	0.150	0.045
JS283-JS284	300	204.313	13.384	0.176	0.136	0.028
JS284-JS285	300	379.111	1.237	0.016	0.002	0.001
JS285-JS286	300	330.898	25.358	0.334	0.442	0.146
JS286-JS287	400	129.920	60.749	0.456	0.569	0.074
JS286-JS291	300	454.264	3.546	0.047	0.012	0.005
JS286-JS310	300	248.069	27.683	0.364	0.520	0.129
JS287-JS288	400	118.776	57.928	0.435	0.521	0.062
JS287-JS290	300	375.519	5.055	0.067	0.022	0.008
JS288-JS289	300	298.181	7.355	0.097	0.045	0.013
JS289-JS290	500	144.293	97.077	0.468	0.463	0.067
JS290-JS291	500	220.362	89.374	0.431	0.398	0.088
JS291-JS292	500	160.180	89.934	0.433	0.402	0.064
JS292-JS293	500	195.532	72.851	0.351	0.272	0.053
JS292-JS311	300	378.057	14.457	0.190	0.156	0.059
JS293-JS294	500	645.608	53.714	0.259	0.155	0.100
JS293-JS312	300	248.336	15.240	0.201	0.172	0.043
JS294-JS295	300	212.906	17.025	0.224	0.212	0.045
JS294-JS308	500	314.326	25.348	0.122	0.039	0.012
JS295-JS296	600	189.113	170.417	0.574	0.550	0.104
JS295-JS307	300	329.249	12.349	0.163	0.117	0.038
JS296-JS297	700	590.315	202.310	0.502	0.361	0.213
JS296-JS298	400	374.956	27.763	0.208	0.134	0.050

管道编号	管径 (mm)	管长(m)	流量 (L/s)	流速 (m/s)	千米损失 (m)	管道损失 (m)
JS298-JS299	300	315.367	23.665	0.312	0.389	0.123
JS298-JS305	300	221.698	18.427	0.243	0.245	0.054
JS298-JS307	300	161.173	29.162	0.384	0.573	0.092
JS299-JS300	400	116.116	45.480	0.341	0.333	0.039
JS299-JS303	300	287.004	19.245	0.253	0.265	0.076
JS300-JS301	300	251.177	0.899	0.012	0.001	0.000
JS300-JS302	300	334.667	15.742	0.207	0.183	0.061
JS302-JS303	300	166.425	21.367	0.281	0.322	0.054
JS303-JS304	300	231.393	12.243	0.161	0.115	0.027
JS303-JS305	300	232.630	25.086	0.330	0.433	0.101
JS305-JS306	300	159.403	25.884	0.341	0.459	0.073
JS306-JS307	300	221.686	14.583	0.192	0.159	0.035
JS308-JS309	300	672.199	7.667	0.101	0.048	0.033
JS308-JS312	300	136.170	21.697	0.286	0.331	0.045
JS309-JS310	300	97.237	27.325	0.360	0.508	0.049
JS310-JS311	300	112.799	1.280	0.017	0.002	0.000
JS311-JS312	300	501.400	9.627	0.127	0.074	0.037
JS313-JS314	300	331.368	20.306	0.267	0.293	0.097
JS314-JS315	300	325.917	4.403	0.058	0.017	0.006
JS314-JS317	300	307.965	12.450	0.164	0.119	0.037
JS315-JS316	300	239.841	2.379	0.031	0.006	0.001
JS316-JS317	300	280.151	11.684	0.154	0.105	0.030

三、消防校核

1. 平差计算依据和结果

平差类型		
消防校核		
2、计算公式		
海曾威廉公式		
$V=0.44*C*(Re/C)^{0.075}*(g*D*I)^{0.5}$		
$Re=V*D/\nu$		
计算温度：13℃ $\nu=0.000001$		
3、局部损失系数：1.05		
4、水源点水泵参数：		
无参数		
5、管网平差结果特征参数		
水源点编号	节点流量 (L/s)	节点压力 (m)
JS1	-1009.500	478.008
JS63	-523.500	478.042
JS152	-523.500	478.131
JS321	-215.500	476.349
最大管径 (mm) : 1200.00		最小管径 (mm) : 300.00
最大流速 (m/s) : 1.261		最小流速 (m/s) : 0.000
水压最低点 JS21		压力 (m) : 475.06
自由水头最低点 JS61		自由水头 (m) : 27.99

2. 平差计算节点参数

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS61	0.853	450.000	477.994	27.994
JS45	8.721	448.000	477.156	29.156
JS141	5.751	448.000	477.266	29.266
JS320	4.045	448.000	477.735	29.735
JS64	1.678	448.000	477.903	29.903
JS279	5.073	446.000	476.510	30.510
JS29	5.020	445.000	475.937	30.937
JS211	4.155	445.000	476.684	31.684
JS142	3.874	445.000	477.170	32.170
JS54	5.856	445.000	477.266	32.266
JS135	10.595	444.000	476.704	32.704
JS212	1.667	444.000	476.708	32.708
JS283	3.638	444.000	476.739	32.739
JS46	3.659	444.000	477.164	33.164
JS53	4.976	444.000	477.180	33.180
JS47	6.864	444.000	477.187	33.187
JS314	4.933	443.000	476.349	33.349
JS219	83.565	443.000	477.115	34.115
JS70	8.697	443.000	477.608	34.608
JS37	6.837	441.000	476.148	35.148
JS19	8.791	440.000	475.400	35.400
JS43	10.521	441.000	476.617	35.617
JS213	4.607	441.000	476.753	35.753
JS50	8.891	441.000	477.133	36.133
JS49	6.544	441.000	477.134	36.134
JS51	4.097	441.000	477.134	36.134
JS48	7.835	441.000	477.150	36.150
JS128	6.216	440.000	476.152	36.152
JS157	6.736	441.000	477.257	36.257
JS156	6.684	441.000	477.344	36.344
JS274	3.032	440.000	476.344	36.344
JS155	7.890	441.000	477.466	36.466
JS71	3.883	441.000	477.473	36.473
JS210	4.971	440.000	476.606	36.606
JS3	4.681	441.000	477.803	36.803
JS62	2.488	441.000	478.015	37.015
JS137	7.236	440.000	477.291	37.291
JS217	4.536	440.000	477.291	37.291
JS138	0.306	440.000	477.293	37.293
JS139	5.165	440.000	477.295	37.295

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS273	2.978	439.000	476.316	37.316
JS278	4.021	439.000	476.512	37.512
JS317	5.683	438.500	476.316	37.816
JS2	248.568	440.000	477.859	37.859
JS42	10.218	438.500	476.385	37.885
JS63	-521.176	440.000	478.042	38.042
JS288	4.261	439.000	477.122	38.122
JS158	8.036	439.000	477.143	38.143
JS144	5.030	439.000	477.148	38.148
JS216	7.322	439.000	477.155	38.155
JS143	6.218	439.000	477.157	38.157
JS315	2.892	438.000	476.336	38.336
JS275	4.022	438.000	476.344	38.344
JS110	9.600	437.000	475.467	38.467
JS1	-1032.247	439.520	478.008	38.488
JS209	3.910	438.000	476.495	38.495
JS134	8.624	438.000	476.497	38.497
JS44	10.625	438.000	476.801	38.801
JS271	4.121	437.000	476.259	39.259
JS270	3.988	437.000	476.276	39.276
JS41	3.133	437.000	476.347	39.347
JS72	4.163	438.000	477.363	39.363
JS220	7.909	438.000	477.391	39.391
JS313	6.231	437.000	476.480	39.480
JS282	3.661	437.000	476.684	39.684
JS68	11.003	438.000	477.769	39.769
JS36	6.273	436.000	476.146	40.146
JS52	6.344	437.000	477.155	40.155
JS18	8.127	435.000	475.417	40.417
JS277	5.638	436.000	476.481	40.481
JS67	7.173	437.000	477.762	40.762
JS136	10.441	436.000	476.805	40.805
JS65	3.926	437.000	477.829	40.829
JS214	5.099	436.000	476.990	40.990
JS215	5.924	436.000	477.012	41.012
JS84	2.479	435.000	476.156	41.156
JS159	5.727	436.000	477.186	41.186
JS272	5.410	435.000	476.230	41.230
JS206	4.738	435.000	476.280	41.280
JS207	3.005	435.000	476.283	41.283
JS39	7.600	435.000	476.321	41.321
JS132	5.189	435.000	476.330	41.330

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS40	3.035	435.000	476.331	41.331
JS28	6.940	434.500	475.859	41.359
JS276	4.276	435.000	476.432	41.432
JS118	3.650	434.000	475.743	41.743
JS60	4.853	436.000	477.788	41.788
JS117	5.889	434.000	475.827	41.827
JS287	3.190	435.000	477.027	42.027
JS122	9.400	434.000	476.130	42.130
JS203	7.223	434.000	476.142	42.142
JS124	5.164	434.000	476.145	42.145
JS125	6.527	434.000	476.145	42.145
JS202	7.397	434.000	476.146	42.146
JS129	8.092	434.000	476.212	42.212
JS130	3.004	434.000	476.230	42.230
JS131	4.543	434.000	476.232	42.232
JS205	6.331	434.000	476.253	42.253
JS74	4.556	435.000	477.268	42.268
JS218	5.487	435.000	477.416	42.416
JS133	4.160	434.000	476.453	42.453
JS208	4.124	434.000	476.454	42.454
JS195	5.715	433.000	475.680	42.680
JS120	4.805	433.000	475.911	42.911
JS77	3.601	434.000	477.045	43.045
JS198	6.861	432.800	475.885	43.085
JS233	6.753	434.000	477.244	43.244
JS316	5.546	433.000	476.332	43.332
JS73	5.214	434.000	477.334	43.334
JS109	8.771	432.000	475.429	43.429
JS145	6.114	434.000	477.555	43.555
JS140	9.048	434.000	477.562	43.562
JS194	4.531	432.000	475.680	43.680
JS284	4.498	433.000	476.703	43.703
JS285	5.226	433.000	476.704	43.704
JS115	7.798	432.000	475.761	43.761
JS66	3.212	434.000	477.795	43.795
JS226	3.747	433.000	477.096	44.096
JS225	6.485	433.000	477.111	44.111
JS269	4.588	432.000	476.275	44.275
JS232	5.838	433.000	477.278	44.278
JS20	12.896	431.000	475.360	44.360
JS228	5.662	433.000	477.415	44.415
JS223	4.826	433.000	477.431	44.431

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS187	6.406	431.000	475.457	44.457
JS280	7.311	432.000	476.585	44.585
JS99	4.273	431.000	475.604	44.604
JS146	4.493	433.000	477.615	44.615
JS55	7.647	433.000	477.620	44.620
JS281	4.000	432.000	476.665	44.665
JS56	3.983	433.000	477.692	44.692
JS100	4.781	431.000	475.843	44.843
JS78	7.571	432.000	476.987	44.987
JS21	101.116	430.000	475.055	45.055
JS227	3.854	432.000	477.206	45.206
JS224	6.052	432.000	477.252	45.252
JS167	4.964	431.000	476.329	45.329
JS263	6.520	431.000	476.368	45.368
JS108	4.591	430.000	475.428	45.428
JS154	2.958	432.000	477.505	45.505
JS98	5.103	430.000	475.573	45.573
JS102	6.717	430.000	475.579	45.579
JS168	5.546	430.500	476.226	45.726
JS27	3.852	430.000	475.744	45.744
JS201	8.127	430.000	475.986	45.986
JS200	4.115	430.000	475.988	45.988
JS121	7.054	430.000	476.064	46.064
JS204	4.959	430.000	476.144	46.144
JS85	3.881	430.000	476.166	46.166
JS38	10.919	430.000	476.206	46.206
JS81	3.310	430.000	476.217	46.217
JS169	5.087	430.000	476.224	46.224
JS111	7.229	429.000	475.500	46.500
JS185	6.612	429.000	475.545	46.545
JS97	4.998	429.000	475.574	46.574
JS96	7.867	429.000	475.644	46.644
JS309	5.638	430.000	476.649	46.649
JS199	5.842	429.000	475.894	46.894
JS290	3.783	430.000	477.040	47.040
JS26	3.683	428.500	475.678	47.178
JS80	8.491	429.000	476.281	47.281
JS16	7.909	428.000	475.420	47.420
JS15	6.653	428.000	475.430	47.430
JS22	7.923	428.000	475.452	47.452
JS221	4.827	430.000	477.460	47.460
JS105	7.319	428.000	475.491	47.491

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS184	6.488	428.000	475.529	47.529
JS147	5.008	430.000	477.566	47.566
JS119	3.521	428.000	475.678	47.678
JS23	7.110	427.500	475.556	48.056
JS25	2.221	427.500	475.639	48.139
JS76	7.428	429.000	477.152	48.152
JS231	6.608	429.000	477.269	48.269
JS107	3.574	427.000	475.443	48.443
JS222	4.239	429.000	477.458	48.458
JS14	6.623	427.000	475.470	48.470
JS113	7.127	427.000	475.604	48.604
JS24	4.495	427.000	475.621	48.621
JS69	4.302	429.000	477.774	48.774
JS116	4.492	427.000	475.816	48.816
JS160	3.804	428.000	477.050	49.050
JS127	5.520	427.000	476.152	49.152
JS35	8.825	427.000	476.159	49.159
JS75	4.204	428.000	477.168	49.168
JS319	4.096	427.000	476.169	49.169
JS86	2.632	427.000	476.178	49.178
JS243	5.232	427.000	476.347	49.347
JS17	3.673	426.000	475.411	49.411
JS294	8.056	427.000	476.569	49.569
JS182	6.408	426.000	475.584	49.584
JS295	5.868	427.000	476.584	49.584
JS181	6.544	426.000	475.594	49.594
JS114	7.218	426.000	475.624	49.624
JS298	5.485	427.000	476.662	49.662
JS101	4.536	426.000	475.716	49.716
JS310	2.341	427.000	476.717	49.717
JS311	5.071	427.000	476.717	49.717
JS151	0.000	428.000	477.877	49.877
JS291	4.267	427.000	476.904	49.904
JS286	5.945	427.000	476.914	49.914
JS10	5.124	426.000	475.987	49.987
JS301	1.284	427.000	476.987	49.987
JS186	6.482	425.500	475.523	50.023
JS297	7.166	427.000	477.126	50.126
JS123	4.844	426.000	476.141	50.141
JS33	3.715	426.000	476.144	50.144
JS34	5.711	426.000	476.144	50.144
JS83	5.919	426.000	476.151	50.151

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS31	4.602	426.000	476.170	50.170
JS260	7.409	426.000	476.322	50.322
JS106	7.362	425.000	475.467	50.467
JS148	4.474	427.000	477.491	50.491
JS153	0.828	427.000	477.514	50.514
JS265	4.030	425.500	476.018	50.518
JS104	4.176	425.000	475.521	50.521
JS103	7.609	425.000	475.527	50.527
JS307	5.789	426.000	476.531	50.531
JS188	4.875	425.000	475.536	50.536
JS305	5.219	426.000	476.599	50.599
JS192	4.957	425.000	475.617	50.617
JS289	4.146	426.500	477.144	50.644
JS296	80.900	426.000	476.705	50.705
JS11	4.938	425.000	475.716	50.716
JS293	5.568	426.000	476.722	50.722
JS304	3.195	426.000	476.747	50.747
JS292	3.750	426.000	476.804	50.804
JS93	4.754	425.000	475.850	50.850
JS161	3.674	426.000	476.905	50.905
JS299	3.672	426.000	476.914	50.914
JS306	5.864	425.500	476.484	50.984
JS300	4.396	426.000	476.987	50.987
JS268	4.618	425.000	475.989	50.989
JS234	7.143	426.000	477.051	51.051
JS247	8.189	425.000	476.129	51.129
JS32	4.522	425.000	476.147	51.147
JS88	6.356	425.000	476.170	51.170
JS259	6.116	425.000	476.224	51.224
JS30	61.437	425.000	476.290	51.290
JS266	3.840	424.500	475.886	51.386
JS242	5.590	425.000	476.432	51.432
JS166	5.701	425.000	476.444	51.444
JS229	4.383	426.000	477.466	51.466
JS149	3.705	426.000	477.484	51.484
JS13	7.911	424.000	475.506	51.506
JS230	5.205	426.000	477.510	51.510
JS241	3.363	425.000	476.514	51.514
JS150	1.756	426.000	477.540	51.540
JS112	7.315	424.000	475.550	51.550
JS12	8.074	424.000	475.554	51.554
JS321	-198.323	424.773	476.349	51.576

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS240	1.498	425.000	476.587	51.587
JS239	2.895	425.000	476.588	51.588
JS190	2.240	424.000	475.591	51.591
JS312	4.528	425.000	476.657	51.657
JS254	5.776	424.500	476.196	51.696
JS196	6.618	424.000	475.704	51.704
JS238	3.063	425.000	476.753	51.753
JS163	4.478	425.000	476.776	51.776
JS303	4.689	425.000	476.788	51.788
JS237	3.830	425.000	476.817	51.817
JS236	3.790	425.000	476.866	51.866
JS197	6.883	424.000	475.884	51.884
JS162	3.804	425.000	476.885	51.885
JS302	4.370	425.000	476.889	51.889
JS165	3.000	424.500	476.481	51.981
JS235	4.377	425.000	477.010	52.010
JS255	8.801	424.000	476.109	52.109
JS170	5.533	424.000	476.140	52.140
JS82	5.115	424.000	476.142	52.142
JS126	4.934	424.000	476.144	52.144
JS87	5.938	424.000	476.193	52.193
JS264	5.808	424.000	476.219	52.219
JS261	5.179	424.000	476.339	52.339
JS183	8.418	423.000	475.525	52.525
JS189	3.790	423.000	475.551	52.551
JS164	4.277	424.000	476.570	52.570
JS318	2.849	423.000	475.584	52.584
JS308	5.738	424.000	476.588	52.588
JS191	4.901	423.000	475.608	52.608
JS180	9.211	423.000	475.710	52.710
JS257	9.835	423.000	475.868	52.868
JS175	3.532	423.000	475.871	52.871
JS256	9.249	423.000	475.898	52.898
JS258	5.732	423.000	476.005	53.005
JS171	5.028	423.000	476.040	53.040
JS172	4.591	423.000	476.040	53.040
JS250	4.997	423.000	476.075	53.075
JS251	3.106	423.000	476.099	53.099
JS246	5.013	423.000	476.130	53.130
JS245	3.228	423.000	476.144	53.144
JS248	4.663	422.800	476.040	53.240
JS262	7.202	423.000	476.390	53.390

节点编号	流量(L/s)	地面标高(m)	节点水压(m)	自由水头(m)
JS178	9.294	422.500	475.954	53.454
JS79	7.098	423.000	476.569	53.569
JS89	5.015	422.500	476.145	53.645
JS267	6.087	422.000	475.727	53.727
JS173	4.250	422.000	475.940	53.940
JS176	4.583	422.000	475.940	53.940
JS90	7.794	422.000	476.053	54.053
JS249	3.592	422.000	476.101	54.101
JS253	4.284	422.000	476.105	54.105
JS252	3.804	422.000	476.106	54.106
JS179	7.653	421.000	475.737	54.737
JS91	7.230	421.000	475.954	54.954
JS193	4.747	420.000	475.616	55.616
JS95	6.293	420.000	475.699	55.699
JS94	4.245	420.000	475.705	55.705
JS177	3.177	420.000	475.857	55.857
JS174	4.264	420.000	475.865	55.865
JS92	7.966	420.000	475.924	55.924
JS4	8.074	420.000	476.242	56.242
JS152	-520.250	421.000	478.131	57.131
JS244	6.079	419.000	476.169	57.169
JS5	9.215	417.500	476.097	58.597
JS9	10.861	416.000	476.052	60.052
JS6	4.392	416.000	476.066	60.066
JS8	8.348	415.500	476.064	60.564
JS7	4.110	415.000	476.064	61.064

3. 平差计算管道参数

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS1-JS2	1000	113.466	1032.247	1.261	1.317	0.149
JS2-JS3	1000	410.507	302.409	0.369	0.136	0.056
JS2-JS65	1000	309.719	250.125	0.306	0.096	0.030
JS2-JS68	800	369.227	231.145	0.440	0.242	0.089
JS3-JS4	800	4253.696	289.375	0.551	0.367	1.561
JS3-JS69	300	505.446	8.353	0.110	0.057	0.029
JS4-JS5	400	931.632	30.146	0.226	0.156	0.145
JS4-JS87	700	278.438	136.729	0.340	0.175	0.049
JS4-JS89	600	369.617	114.426	0.385	0.263	0.097
JS5-JS6	300	620.271	7.775	0.102	0.050	0.031
JS5-JS8	300	251.193	13.155	0.173	0.131	0.033
JS6-JS7	300	239.100	3.383	0.045	0.011	0.003
JS7-JS8	300	564.978	0.727	0.010	0.001	0.000
JS8-JS9	300	817.115	4.081	0.054	0.015	0.012
JS9-JS10	600	333.764	96.832	0.326	0.193	0.064
JS9-JS89	600	324.249	119.947	0.404	0.287	0.093
JS9-JS92	300	650.046	16.335	0.215	0.196	0.127
JS10-JS11	300	411.718	31.421	0.414	0.657	0.271
JS10-JS100	400	257.162	60.288	0.452	0.561	0.144
JS11-JS12	300	364.942	25.415	0.335	0.444	0.162
JS11-JS101	300	189.513	1.067	0.014	0.001	0.000
JS12-JS13	300	671.318	9.536	0.126	0.072	0.049
JS12-JS103	300	543.525	7.805	0.103	0.050	0.027
JS13-JS14	300	475.542	9.720	0.128	0.075	0.036
JS13-JS103	300	401.036	8.094	0.107	0.053	0.021
JS14-JS15	300	419.506	11.096	0.146	0.096	0.040
JS14-JS105	300	400.825	7.999	0.105	0.052	0.021
JS15-JS16	400	278.355	13.733	0.103	0.036	0.010
JS15-JS18	300	328.340	6.781	0.089	0.039	0.013
JS15-JS107	400	275.506	16.071	0.121	0.049	0.013
JS16-JS17	300	718.653	3.673	0.048	0.012	0.009
JS16-JS18	300	550.551	2.151	0.028	0.005	0.003
JS18-JS19	300	407.935	7.138	0.094	0.042	0.017
JS18-JS108	300	303.274	6.333	0.083	0.034	0.010
JS19-JS20	300	874.527	7.470	0.098	0.046	0.040
JS19-JS109	300	437.518	9.123	0.120	0.067	0.029
JS20-JS21	500	609.616	101.116	0.487	0.499	0.304
JS20-JS22	300	377.219	18.406	0.242	0.244	0.092
JS20-JS110	600	661.980	88.136	0.297	0.162	0.107

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS22-JS23	300	502.101	16.858	0.222	0.208	0.104
JS22-JS111	300	670.932	9.471	0.125	0.071	0.048
JS23-JS24	300	132.371	26.876	0.354	0.492	0.065
JS23-JS112	300	756.758	2.907	0.038	0.008	0.006
JS24-JS25	300	166.021	11.661	0.154	0.105	0.017
JS24-JS114	300	306.039	2.986	0.039	0.008	0.003
JS24-JS119	300	274.986	16.724	0.220	0.205	0.056
JS25-JS26	300	268.502	13.882	0.183	0.145	0.039
JS26-JS27	300	277.065	18.231	0.240	0.240	0.067
JS26-JS119	300	175.046	0.666	0.009	0.001	0.000
JS27-JS28	300	276.292	24.501	0.323	0.415	0.115
JS27-JS118	300	200.317	2.418	0.032	0.006	0.001
JS28-JS29	300	241.716	21.387	0.282	0.323	0.078
JS28-JS117	300	196.415	14.648	0.193	0.160	0.031
JS28-JS122	300	643.446	24.702	0.325	0.421	0.271
JS29-JS30	300	740.541	26.407	0.348	0.477	0.353
JS30-JS31	300	278.544	24.933	0.328	0.428	0.119
JS30-JS122	500	436.127	85.546	0.412	0.367	0.160
JS30-JS321	800	324.470	198.323	0.377	0.182	0.059
JS31-JS32	300	253.238	11.018	0.145	0.095	0.024
JS31-JS124	300	368.689	9.313	0.123	0.069	0.026
JS32-JS33	300	461.554	2.576	0.034	0.006	0.003
JS32-JS126	300	170.021	3.920	0.052	0.014	0.002
JS33-JS34	300	265.357	1.139	0.015	0.001	0.000
JS34-JS35	300	482.093	6.149	0.081	0.032	0.016
JS34-JS126	300	369.966	0.701	0.009	0.001	0.000
JS35-JS36	300	815.602	4.293	0.057	0.017	0.013
JS35-JS38	400	323.047	28.773	0.216	0.143	0.046
JS35-JS127	300	105.971	9.505	0.125	0.072	0.008
JS36-JS37	300	411.717	1.980	0.026	0.004	0.002
JS37-JS38	300	925.962	8.817	0.116	0.063	0.058
JS38-JS39	400	443.538	39.897	0.299	0.261	0.116
JS38-JS131	300	443.868	8.611	0.113	0.060	0.027
JS39-JS40	300	334.753	5.696	0.075	0.028	0.009
JS39-JS42	400	279.413	37.037	0.278	0.228	0.064
JS39-JS132	300	429.231	4.765	0.063	0.020	0.009
JS40-JS41	300	259.062	8.731	0.115	0.061	0.016
JS41-JS42	300	353.858	11.864	0.156	0.108	0.038
JS42-JS43	400	767.032	43.187	0.324	0.303	0.232
JS42-JS134	300	599.030	15.931	0.210	0.187	0.112
JS43-JS44	400	711.452	39.634	0.297	0.258	0.184

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS43-JS135	300	580.056	14.075	0.185	0.149	0.086
JS44-JS45	400	1022.366	46.530	0.349	0.347	0.355
JS44-JS136	300	345.022	3.728	0.049	0.013	0.004
JS45-JS46	300	346.516	5.147	0.068	0.023	0.008
JS45-JS137	400	337.553	50.104	0.376	0.398	0.134
JS46-JS47	300	369.475	8.806	0.116	0.062	0.023
JS47-JS48	300	700.116	8.123	0.107	0.054	0.038
JS47-JS139	300	273.385	23.793	0.313	0.393	0.107
JS48-JS49	300	336.025	7.495	0.099	0.046	0.016
JS48-JS142	300	258.847	10.035	0.132	0.080	0.021
JS48-JS144	300	238.111	2.828	0.037	0.008	0.002
JS49-JS50	300	944.319	0.951	0.013	0.001	0.001
JS50-JS51	300	237.353	2.414	0.032	0.006	0.001
JS50-JS144	300	557.959	5.526	0.073	0.026	0.015
JS51-JS52	300	564.264	6.511	0.086	0.036	0.020
JS52-JS53	300	309.219	10.240	0.135	0.083	0.026
JS52-JS143	300	367.726	2.615	0.034	0.007	0.002
JS53-JS54	300	228.897	23.278	0.306	0.377	0.086
JS53-JS143	300	435.488	8.062	0.106	0.053	0.023
JS54-JS55	300	617.222	29.185	0.384	0.573	0.354
JS54-JS141	300	299.668	0.051	0.001	0.000	0.000
JS55-JS56	1200	336.001	622.229	0.529	0.214	0.072
JS55-JS140	1200	513.617	443.313	0.377	0.114	0.059
JS55-JS146	700	29.474	142.084	0.353	0.188	0.006
JS56-JS60	1200	443.262	626.212	0.532	0.217	0.096
JS60-JS61	400	303.049	66.755	0.501	0.677	0.205
JS60-JS66	1200	26.965	692.389	0.588	0.261	0.007
JS60-JS67	800	327.729	128.079	0.244	0.081	0.027
JS61-JS62	400	30.690	67.608	0.507	0.693	0.021
JS62-JS63	800	24.800	521.176	0.992	1.090	0.027
JS62-JS64	300	368.933	20.657	0.272	0.303	0.112
JS62-JS66	800	286.975	430.423	0.819	0.765	0.220
JS64-JS65	300	287.621	18.979	0.250	0.259	0.074
JS65-JS66	1000	314.621	265.178	0.324	0.107	0.034
JS67-JS68	300	724.115	3.307	0.044	0.010	0.007
JS67-JS320	800	351.715	124.213	0.236	0.077	0.027
JS68-JS69	300	336.382	4.051	0.053	0.015	0.005
JS68-JS70	800	723.173	220.886	0.420	0.223	0.161
JS70-JS71	600	309.988	150.331	0.506	0.436	0.135
JS70-JS155	600	228.698	182.026	0.613	0.621	0.142
JS70-JS320	600	439.739	120.168	0.405	0.288	0.127

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS71-JS72	500	157.817	121.093	0.584	0.697	0.110
JS71-JS156	300	291.904	25.356	0.334	0.442	0.129
JS72-JS73	500	241.662	46.564	0.224	0.119	0.029
JS72-JS157	500	415.092	70.366	0.339	0.255	0.106
JS73-JS74	300	256.444	19.045	0.251	0.260	0.067
JS73-JS76	300	522.083	22.305	0.294	0.349	0.182
JS74-JS75	300	634.893	14.489	0.191	0.157	0.100
JS75-JS76	300	187.641	10.285	0.135	0.083	0.016
JS76-JS77	300	391.083	19.543	0.257	0.273	0.107
JS76-JS158	300	352.587	5.619	0.074	0.027	0.010
JS77-JS78	300	313.564	15.942	0.210	0.187	0.059
JS78-JS79	300	517.145	35.108	0.462	0.807	0.417
JS78-JS158	400	388.115	50.332	0.378	0.402	0.156
JS78-JS162	300	262.438	23.595	0.311	0.387	0.102
JS79-JS80	300	514.328	28.856	0.380	0.561	0.289
JS79-JS164	300	357.353	0.846	0.011	0.001	0.000
JS80-JS81	300	242.933	19.162	0.252	0.263	0.064
JS80-JS166	300	690.678	18.057	0.238	0.236	0.163
JS80-JS169	300	213.475	19.259	0.254	0.266	0.057
JS81-JS82	300	404.644	15.852	0.209	0.185	0.075
JS82-JS83	600	301.645	35.773	0.120	0.031	0.009
JS82-JS170	400	20.393	23.504	0.176	0.098	0.002
JS82-JS172	300	274.055	23.006	0.303	0.369	0.101
JS83-JS84	300	239.495	4.691	0.062	0.019	0.005
JS83-JS90	400	331.398	42.679	0.320	0.296	0.098
JS83-JS319	700	285.633	79.680	0.198	0.064	0.018
JS84-JS85	300	245.557	7.170	0.094	0.043	0.010
JS85-JS86	300	307.120	6.880	0.091	0.040	0.012
JS85-JS319	300	206.753	4.171	0.055	0.016	0.003
JS86-JS87	300	207.833	9.512	0.125	0.072	0.015
JS87-JS88	500	366.603	33.332	0.161	0.064	0.024
JS87-JS319	700	309.033	87.947	0.218	0.077	0.024
JS88-JS89	300	287.373	10.536	0.139	0.087	0.025
JS88-JS90	300	589.598	16.440	0.216	0.198	0.117
JS90-JS91	400	311.367	44.215	0.332	0.316	0.098
JS90-JS172	300	292.574	7.110	0.094	0.042	0.012
JS91-JS92	300	543.521	8.254	0.109	0.055	0.030
JS91-JS173	300	291.563	7.834	0.103	0.050	0.015
JS91-JS175	300	268.143	20.897	0.275	0.309	0.083
JS92-JS93	300	365.152	16.623	0.219	0.202	0.074
JS93-JS94	300	370.504	23.748	0.313	0.392	0.145

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS93-JS175	300	194.564	11.879	0.156	0.109	0.021
JS94-JS95	500	58.684	43.503	0.210	0.105	0.006
JS94-JS174	300	401.397	24.000	0.316	0.399	0.160
JS95-JS96	500	252.120	64.830	0.312	0.219	0.055
JS95-JS177	300	440.488	22.630	0.298	0.358	0.158
JS95-JS180	300	480.000	4.991	0.066	0.022	0.010
JS96-JS97	300	207.951	21.760	0.286	0.333	0.069
JS96-JS181	300	832.549	8.608	0.113	0.060	0.050
JS96-JS183	300	246.731	26.595	0.350	0.483	0.119
JS97-JS98	300	507.455	1.428	0.019	0.002	0.001
JS97-JS184	300	262.596	15.334	0.202	0.174	0.046
JS98-JS99	300	189.109	14.744	0.194	0.162	0.031
JS98-JS185	300	301.945	11.069	0.146	0.095	0.029
JS99-JS100	300	390.481	30.221	0.398	0.612	0.239
JS99-JS102	300	256.379	11.204	0.147	0.098	0.025
JS100-JS101	300	287.869	25.285	0.333	0.440	0.127
JS101-JS102	300	410.071	21.817	0.287	0.335	0.137
JS102-JS103	300	349.094	14.039	0.185	0.148	0.052
JS102-JS185	300	298.727	12.265	0.161	0.115	0.034
JS103-JS104	300	195.074	6.141	0.081	0.032	0.006
JS104-JS105	300	294.258	11.450	0.151	0.102	0.030
JS104-JS185	300	327.770	9.485	0.125	0.072	0.023
JS105-JS106	300	416.495	8.492	0.112	0.058	0.024
JS105-JS184	300	320.520	12.361	0.163	0.117	0.037
JS106-JS107	400	168.328	28.387	0.213	0.139	0.023
JS106-JS183	400	333.030	31.961	0.240	0.173	0.058
JS106-JS187	300	522.623	4.704	0.062	0.020	0.010
JS107-JS108	300	255.440	8.742	0.115	0.062	0.016
JS108-JS109	300	339.640	2.181	0.029	0.005	0.002
JS109-JS110	300	685.417	8.249	0.109	0.055	0.038
JS109-JS187	300	253.649	11.826	0.156	0.108	0.027
JS110-JS111	300	213.831	14.290	0.188	0.153	0.033
JS110-JS186	600	317.043	91.696	0.309	0.175	0.055
JS111-JS112	300	189.568	19.234	0.253	0.265	0.050
JS111-JS188	300	340.189	11.756	0.155	0.107	0.036
JS112-JS113	300	152.256	22.378	0.295	0.351	0.053
JS112-JS189	300	332.777	1.264	0.017	0.002	0.001
JS113-JS114	300	481.199	7.145	0.094	0.042	0.020
JS113-JS193	300	195.776	9.016	0.119	0.065	0.013
JS113-JS195	300	565.338	13.344	0.176	0.135	0.076
JS114-JS115	300	625.074	17.349	0.228	0.219	0.137

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS115-JS116	300	199.147	19.668	0.259	0.276	0.055
JS115-JS195	300	364.346	17.505	0.230	0.223	0.081
JS115-JS198	300	337.242	22.985	0.303	0.369	0.124
JS116-JS117	300	339.046	6.337	0.083	0.034	0.012
JS116-JS199	300	340.668	17.823	0.235	0.230	0.078
JS117-JS118	300	274.883	20.810	0.274	0.307	0.084
JS117-JS120	300	341.840	18.388	0.242	0.244	0.083
JS118-JS119	300	238.972	19.579	0.258	0.274	0.065
JS120-JS121	300	243.806	30.695	0.404	0.629	0.153
JS120-JS199	300	354.499	7.502	0.099	0.046	0.016
JS121-JS122	500	374.996	57.346	0.276	0.175	0.066
JS121-JS200	400	355.193	35.769	0.268	0.214	0.076
JS121-JS203	300	406.263	16.172	0.213	0.192	0.078
JS122-JS123	300	384.683	5.902	0.078	0.030	0.011
JS123-JS124	400	352.925	6.824	0.051	0.010	0.004
JS123-JS204	300	210.208	3.922	0.052	0.014	0.003
JS124-JS125	400	288.808	2.675	0.020	0.002	0.001
JS125-JS126	300	425.465	1.715	0.023	0.003	0.001
JS125-JS127	300	389.639	4.268	0.056	0.016	0.006
JS125-JS128	300	173.251	6.649	0.088	0.037	0.006
JS127-JS128	300	584.374	0.283	0.004	0.000	0.000
JS128-JS129	300	458.616	13.147	0.173	0.131	0.060
JS129-JS130	400	253.583	19.641	0.147	0.070	0.018
JS129-JS204	300	586.476	12.268	0.161	0.115	0.068
JS129-JS205	300	284.650	13.867	0.183	0.145	0.041
JS130-JS131	300	73.725	6.027	0.079	0.031	0.002
JS130-JS207	300	260.446	16.618	0.219	0.202	0.053
JS131-JS132	300	371.304	19.181	0.252	0.264	0.098
JS132-JS133	300	214.803	29.135	0.384	0.572	0.123
JS133-JS134	500	276.127	54.750	0.264	0.161	0.044
JS133-JS207	300	298.686	29.097	0.383	0.570	0.170
JS133-JS208	300	24.241	7.642	0.101	0.048	0.001
JS134-JS135	600	787.670	114.180	0.384	0.262	0.206
JS134-JS209	500	24.623	34.875	0.168	0.070	0.002
JS135-JS136	600	679.547	84.405	0.284	0.150	0.102
JS135-JS212	500	25.695	54.445	0.262	0.159	0.004
JS136-JS137	500	1018.356	98.574	0.475	0.477	0.485
JS137-JS138	800	31.640	115.902	0.221	0.068	0.002
JS137-JS217	800	28.303	40.013	0.076	0.009	0.000
JS138-JS139	800	28.174	116.208	0.221	0.068	0.002
JS139-JS140	800	676.618	300.923	0.573	0.395	0.267

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS139-JS217	800	32.411	155.757	0.296	0.117	0.004
JS140-JS141	300	551.820	28.108	0.370	0.535	0.295
JS140-JS145	600	28.238	105.234	0.354	0.225	0.006
JS141-JS142	300	273.834	22.408	0.295	0.352	0.096
JS142-JS143	300	225.375	8.499	0.112	0.059	0.013
JS143-JS144	300	188.053	7.728	0.102	0.049	0.009
JS145-JS146	300	522.886	12.186	0.160	0.114	0.060
JS145-JS218	400	252.322	59.845	0.449	0.553	0.140
JS145-JS220	400	392.738	51.461	0.386	0.419	0.164
JS146-JS147	700	326.684	125.404	0.311	0.149	0.049
JS147-JS148	600	392.070	96.191	0.324	0.191	0.075
JS147-JS221	300	261.209	24.205	0.319	0.406	0.106
JS148-JS149	800	239.402	78.228	0.149	0.033	0.008
JS148-JS222	300	243.828	13.489	0.178	0.138	0.034
JS149-JS150	500	185.195	77.379	0.373	0.304	0.056
JS149-JS223	300	252.043	16.832	0.222	0.207	0.052
JS149-JS229	600	48.350	135.070	0.455	0.357	0.017
JS150-JS151	800	309.908	520.250	0.990	1.086	0.337
JS150-JS153	300	118.224	17.383	0.229	0.220	0.026
JS150-JS230	800	40.172	423.732	0.806	0.743	0.030
JS151-JS152	800	234.265	520.250	0.990	1.086	0.254
JS153-JS154	300	43.871	16.555	0.218	0.201	0.009
JS154-JS155	500	421.028	40.629	0.196	0.092	0.039
JS154-JS230	500	113.816	27.032	0.130	0.044	0.005
JS155-JS156	600	362.603	130.787	0.440	0.337	0.122
JS155-JS232	500	531.502	83.978	0.405	0.354	0.188
JS156-JS157	500	328.313	71.794	0.346	0.265	0.087
JS156-JS233	500	324.889	77.664	0.374	0.307	0.100
JS157-JS158	400	412.301	41.201	0.309	0.277	0.114
JS157-JS159	500	162.217	94.224	0.454	0.438	0.071
JS158-JS159	300	419.357	11.548	0.152	0.103	0.043
JS159-JS160	500	303.210	95.514	0.460	0.450	0.136
JS159-JS233	300	235.747	18.565	0.244	0.248	0.059
JS160-JS161	300	243.584	29.753	0.392	0.594	0.145
JS160-JS235	500	197.421	61.957	0.299	0.202	0.040
JS161-JS162	300	288.800	9.232	0.122	0.068	0.020
JS161-JS236	300	186.570	16.848	0.222	0.207	0.039
JS162-JS163	300	193.124	29.022	0.382	0.567	0.110
JS163-JS164	300	301.256	32.095	0.422	0.684	0.206
JS163-JS236	300	251.193	22.713	0.299	0.361	0.091
JS163-JS238	300	130.505	15.162	0.200	0.171	0.022

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS164-JS165	300	178.313	26.972	0.355	0.496	0.088
JS165-JS166	400	108.943	46.499	0.349	0.347	0.038
JS165-JS239	300	299.726	22.528	0.297	0.355	0.106
JS166-JS167	300	315.854	22.741	0.299	0.361	0.114
JS167-JS168	300	238.651	25.023	0.329	0.431	0.103
JS167-JS243	300	416.666	7.246	0.095	0.044	0.018
JS168-JS169	300	374.951	2.654	0.035	0.007	0.003
JS168-JS247	300	471.514	16.823	0.221	0.207	0.098
JS169-JS170	300	406.970	16.827	0.222	0.207	0.084
JS170-JS171	300	273.703	22.813	0.300	0.364	0.099
JS170-JS247	400	381.440	11.985	0.090	0.028	0.011
JS171-JS172	300	20.277	4.102	0.054	0.015	0.000
JS171-JS176	300	308.979	21.494	0.283	0.326	0.101
JS171-JS248	300	380.766	0.393	0.005	0.000	0.000
JS172-JS173	300	311.443	21.424	0.282	0.324	0.101
JS173-JS174	300	204.570	22.778	0.300	0.362	0.074
JS173-JS176	300	23.974	2.230	0.029	0.005	0.000
JS174-JS175	300	228.402	5.486	0.072	0.026	0.006
JS176-JS177	300	181.113	25.807	0.340	0.457	0.083
JS176-JS178	300	382.716	6.667	0.088	0.037	0.014
JS178-JS179	300	628.756	22.181	0.292	0.345	0.217
JS178-JS248	300	309.559	19.756	0.260	0.279	0.086
JS178-JS250	300	497.430	18.385	0.242	0.244	0.121
JS179-JS180	600	101.096	116.002	0.391	0.270	0.027
JS179-JS256	600	767.550	101.474	0.342	0.211	0.162
JS180-JS181	600	414.548	118.155	0.398	0.279	0.116
JS180-JS257	300	806.500	16.355	0.215	0.196	0.158
JS181-JS182	600	33.250	120.219	0.405	0.288	0.010
JS182-JS183	300	746.208	10.062	0.132	0.080	0.060
JS182-JS186	600	289.775	102.061	0.344	0.213	0.062
JS182-JS318	400	184.642	1.689	0.013	0.001	0.000
JS183-JS184	300	321.079	3.722	0.049	0.013	0.004
JS184-JS185	300	365.353	7.237	0.095	0.043	0.016
JS186-JS187	300	477.057	13.529	0.178	0.138	0.066
JS186-JS188	300	184.314	9.646	0.127	0.074	0.014
JS188-JS189	300	177.145	10.211	0.134	0.082	0.015
JS188-JS318	300	252.158	16.066	0.211	0.190	0.048
JS189-JS190	300	231.603	15.264	0.201	0.173	0.040
JS190-JS191	400	85.922	34.730	0.261	0.202	0.017
JS190-JS318	400	120.692	17.226	0.129	0.055	0.007
JS191-JS192	300	220.024	6.893	0.091	0.040	0.009

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS191-JS267	400	653.020	32.738	0.246	0.181	0.118
JS192-JS193	300	139.174	1.948	0.026	0.004	0.001
JS192-JS196	300	610.602	13.798	0.182	0.143	0.088
JS193-JS194	300	593.833	11.814	0.156	0.108	0.064
JS194-JS195	300	188.516	1.554	0.020	0.003	0.000
JS194-JS196	300	104.261	17.899	0.236	0.232	0.024
JS196-JS197	300	414.781	25.034	0.330	0.432	0.179
JS196-JS267	300	165.237	13.281	0.175	0.134	0.022
JS197-JS198	300	554.056	1.736	0.023	0.003	0.002
JS197-JS266	300	144.415	4.565	0.060	0.019	0.003
JS197-JS268	300	233.509	25.616	0.337	0.450	0.105
JS198-JS199	300	203.631	7.370	0.097	0.045	0.009
JS198-JS201	300	247.424	24.211	0.319	0.406	0.100
JS199-JS200	300	244.344	23.533	0.310	0.385	0.094
JS200-JS201	400	205.626	8.121	0.061	0.014	0.003
JS201-JS202	300	609.609	19.123	0.252	0.262	0.160
JS201-JS268	400	527.457	5.094	0.038	0.006	0.003
JS202-JS203	300	286.109	3.392	0.045	0.011	0.003
JS202-JS272	400	551.658	29.912	0.224	0.153	0.085
JS203-JS204	300	173.591	3.387	0.045	0.011	0.002
JS203-JS205	300	547.350	16.617	0.219	0.202	0.111
JS205-JS206	500	207.819	49.107	0.237	0.131	0.027
JS205-JS272	300	198.856	12.292	0.162	0.116	0.023
JS206-JS207	300	28.919	9.474	0.125	0.072	0.002
JS206-JS208	300	293.341	29.683	0.391	0.592	0.174
JS206-JS275	300	396.994	14.688	0.193	0.161	0.064
JS208-JS209	500	274.402	52.976	0.255	0.151	0.041
JS208-JS276	300	214.899	11.528	0.152	0.103	0.022
JS209-JS210	300	185.544	29.842	0.393	0.597	0.111
JS209-JS277	300	280.453	7.832	0.103	0.050	0.014
JS210-JS211	500	474.498	55.426	0.267	0.164	0.078
JS210-JS278	300	312.609	20.612	0.271	0.301	0.094
JS211-JS212	500	128.470	58.568	0.282	0.182	0.023
JS211-JS282	400	210.070	1.013	0.008	0.000	0.000
JS212-JS213	600	172.100	114.679	0.386	0.264	0.045
JS213-JS214	600	519.207	154.016	0.518	0.456	0.237
JS213-JS283	500	210.057	34.730	0.167	0.069	0.015
JS214-JS215	600	57.579	140.404	0.473	0.384	0.022
JS214-JS226	300	420.802	18.711	0.246	0.252	0.106
JS215-JS216	600	551.848	113.758	0.383	0.260	0.144
JS215-JS225	400	549.725	32.570	0.244	0.180	0.099

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS216-JS217	600	398.453	131.445	0.442	0.340	0.135
JS216-JS219	300	482.236	10.365	0.136	0.084	0.041
JS217-JS218	300	428.266	20.236	0.266	0.291	0.125
JS218-JS219	300	393.034	34.122	0.449	0.766	0.301
JS219-JS220	300	246.984	41.874	0.551	1.118	0.276
JS219-JS225	300	553.500	2.795	0.037	0.007	0.004
JS220-JS221	300	339.577	16.701	0.220	0.204	0.069
JS220-JS224	300	568.114	18.379	0.242	0.244	0.138
JS221-JS222	300	343.743	2.677	0.035	0.007	0.002
JS222-JS223	300	241.848	11.927	0.157	0.110	0.026
JS223-JS224	300	450.453	23.933	0.315	0.397	0.179
JS224-JS225	300	165.559	36.260	0.477	0.857	0.142
JS226-JS227	300	312.379	22.458	0.296	0.353	0.110
JS227-JS228	300	441.633	26.312	0.346	0.473	0.209
JS228-JS229	600	249.310	100.042	0.337	0.205	0.051
JS228-JS288	400	416.796	68.068	0.511	0.702	0.293
JS229-JS230	600	191.107	106.245	0.358	0.229	0.044
JS229-JS289	500	368.762	136.890	0.660	0.875	0.323
JS230-JS231	800	673.342	285.249	0.543	0.357	0.241
JS231-JS232	600	283.663	35.249	0.119	0.030	0.008
JS231-JS297	800	335.973	313.891	0.597	0.427	0.143
JS232-JS233	500	327.142	42.891	0.207	0.102	0.033
JS233-JS234	500	433.522	95.237	0.459	0.447	0.194
JS234-JS235	300	330.138	12.740	0.168	0.124	0.041
JS234-JS297	300	475.797	14.575	0.192	0.159	0.076
JS234-JS300	500	158.117	89.929	0.433	0.402	0.064
JS235-JS236	300	186.546	34.223	0.451	0.770	0.144
JS235-JS302	300	142.234	36.097	0.475	0.850	0.121
JS236-JS237	300	117.182	24.568	0.323	0.417	0.049
JS237-JS238	300	225.890	19.937	0.262	0.283	0.064
JS237-JS302	300	211.638	21.946	0.289	0.338	0.072
JS237-JS304	300	194.723	22.747	0.299	0.362	0.070
JS238-JS239	300	243.012	32.036	0.422	0.681	0.166
JS239-JS240	300	23.609	6.614	0.087	0.037	0.001
JS240-JS241	300	70.483	40.147	0.529	1.034	0.073
JS240-JS304	300	199.087	35.031	0.461	0.804	0.160
JS241-JS242	400	180.182	53.682	0.403	0.453	0.082
JS241-JS305	300	407.357	16.897	0.222	0.209	0.085
JS242-JS243	300	105.600	35.044	0.461	0.804	0.085
JS242-JS254	300	469.095	27.249	0.359	0.505	0.237
JS242-JS306	300	338.898	14.201	0.187	0.151	0.051

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS243-JS244	300	501.492	22.566	0.297	0.356	0.179
JS244-JS245	400	115.072	35.920	0.269	0.215	0.025
JS244-JS252	300	430.307	13.897	0.183	0.145	0.063
JS244-JS254	400	142.534	33.330	0.250	0.187	0.027
JS245-JS246	400	183.718	20.309	0.152	0.075	0.014
JS245-JS253	300	332.713	12.383	0.163	0.117	0.039
JS246-JS247	400	527.317	3.408	0.026	0.003	0.001
JS246-JS249	300	269.897	11.889	0.157	0.109	0.029
JS247-JS248	300	221.946	24.026	0.316	0.400	0.089
JS249-JS250	300	206.572	12.804	0.169	0.125	0.026
JS249-JS253	300	226.355	4.508	0.059	0.018	0.004
JS250-JS251	300	273.700	10.578	0.139	0.088	0.024
JS251-JS252	300	184.470	6.821	0.090	0.039	0.007
JS251-JS253	300	149.527	6.862	0.090	0.039	0.006
JS252-JS253	300	129.606	3.271	0.043	0.010	0.001
JS254-JS255	300	343.200	18.779	0.247	0.254	0.087
JS254-JS259	400	175.407	30.636	0.230	0.160	0.028
JS255-JS256	600	713.207	121.631	0.409	0.294	0.210
JS255-JS258	300	332.646	21.014	0.277	0.312	0.104
JS255-JS259	600	333.036	132.667	0.447	0.346	0.115
JS256-JS257	300	328.834	10.908	0.144	0.093	0.031
JS257-JS258	300	788.982	15.282	0.201	0.173	0.137
JS259-JS260	600	260.798	139.284	0.469	0.378	0.099
JS259-JS306	300	427.387	30.135	0.397	0.608	0.260
JS260-JS261	300	506.939	6.225	0.082	0.033	0.017
JS260-JS262	600	261.487	113.475	0.382	0.259	0.068
JS260-JS307	300	420.506	26.993	0.355	0.496	0.209
JS261-JS262	300	506.461	11.404	0.150	0.101	0.051
JS262-JS263	400	224.325	23.604	0.177	0.099	0.022
JS262-JS295	600	416.825	155.685	0.524	0.465	0.194
JS263-JS264	500	357.245	91.525	0.441	0.415	0.148
JS263-JS294	500	403.474	101.047	0.487	0.499	0.201
JS263-JS316	400	290.733	26.605	0.200	0.124	0.036
JS264-JS265	500	411.760	99.869	0.481	0.488	0.201
JS264-JS269	300	367.370	14.152	0.186	0.150	0.055
JS265-JS266	400	234.173	60.512	0.454	0.565	0.132
JS265-JS268	400	142.615	35.328	0.265	0.209	0.030
JS266-JS267	400	372.755	52.106	0.391	0.428	0.160
JS269-JS270	300	255.831	1.840	0.024	0.003	0.001
JS269-JS316	300	274.461	16.900	0.222	0.209	0.057
JS270-JS271	300	267.124	8.687	0.114	0.061	0.016

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS270-JS317	300	257.438	14.516	0.191	0.158	0.041
JS271-JS272	400	308.007	23.030	0.173	0.095	0.029
JS271-JS273	300	231.192	18.463	0.243	0.246	0.057
JS273-JS274	300	85.141	21.466	0.283	0.325	0.028
JS273-JS317	300	266.362	0.024	0.000	0.000	0.000
JS274-JS275	300	111.456	2.375	0.031	0.006	0.001
JS274-JS313	300	396.723	22.123	0.291	0.343	0.136
JS275-JS276	300	278.546	21.085	0.278	0.314	0.088
JS276-JS277	300	343.153	13.834	0.182	0.144	0.049
JS277-JS278	300	212.015	13.889	0.183	0.145	0.031
JS277-JS313	300	267.544	2.249	0.030	0.005	0.001
JS278-JS279	300	262.156	2.703	0.036	0.007	0.002
JS279-JS280	500	506.963	52.316	0.252	0.148	0.075
JS279-JS313	500	223.445	49.946	0.241	0.135	0.030
JS280-JS281	300	277.334	20.051	0.264	0.286	0.079
JS280-JS285	300	312.494	23.426	0.308	0.382	0.119
JS280-JS309	300	333.645	16.150	0.213	0.192	0.064
JS281-JS282	300	208.735	11.034	0.145	0.095	0.020
JS281-JS284	300	296.674	13.016	0.171	0.129	0.038
JS282-JS283	300	297.495	15.708	0.207	0.182	0.054
JS283-JS284	300	204.313	15.384	0.203	0.175	0.036
JS284-JS285	300	379.111	2.131	0.028	0.005	0.002
JS285-JS286	300	330.898	30.783	0.405	0.633	0.209
JS286-JS287	400	129.920	76.417	0.573	0.870	0.113
JS286-JS291	300	454.264	4.941	0.065	0.021	0.010
JS286-JS310	300	248.069	34.747	0.457	0.792	0.196
JS287-JS288	400	118.776	73.261	0.550	0.805	0.096
JS287-JS290	300	375.519	6.345	0.084	0.034	0.013
JS288-JS289	300	298.181	9.454	0.124	0.071	0.021
JS289-JS290	500	144.293	123.290	0.594	0.721	0.104
JS290-JS291	500	220.362	113.162	0.545	0.615	0.136
JS291-JS292	500	160.180	113.837	0.549	0.622	0.100
JS292-JS293	500	195.532	92.265	0.445	0.422	0.082
JS292-JS311	300	378.057	17.822	0.235	0.230	0.087
JS293-JS294	500	645.608	67.546	0.326	0.237	0.153
JS293-JS312	300	248.336	19.151	0.252	0.263	0.065
JS294-JS295	300	212.906	9.303	0.122	0.069	0.015
JS294-JS308	500	314.326	32.254	0.155	0.060	0.019
JS295-JS296	600	189.113	185.519	0.625	0.643	0.122
JS295-JS307	300	329.249	14.664	0.193	0.160	0.053
JS296-JS297	700	590.315	292.150	0.726	0.713	0.421

管道编号	管径 (mm)	管长(m)	流量(L/s)	流速(m/s)	千米损失 (m)	管道损失 (m)
JS296-JS298	400	374.956	25.730	0.193	0.116	0.044
JS298-JS299	300	315.367	34.955	0.460	0.801	0.252
JS298-JS305	300	221.698	19.968	0.263	0.284	0.063
JS298-JS307	300	161.173	35.232	0.464	0.812	0.131
JS299-JS300	400	116.116	63.939	0.480	0.625	0.073
JS299-JS303	300	287.004	25.313	0.333	0.441	0.126
JS300-JS301	300	251.177	1.284	0.017	0.002	0.000
JS300-JS302	300	334.667	20.309	0.267	0.293	0.098
JS302-JS303	300	166.425	30.090	0.396	0.607	0.101
JS303-JS304	300	231.393	15.480	0.204	0.177	0.041
JS303-JS305	300	232.630	35.234	0.464	0.812	0.189
JS305-JS306	300	159.403	33.086	0.436	0.723	0.115
JS306-JS307	300	221.686	17.113	0.225	0.214	0.047
JS308-JS309	300	672.199	10.777	0.142	0.091	0.061
JS308-JS312	300	136.170	27.215	0.358	0.504	0.069
JS309-JS310	300	97.237	32.565	0.429	0.702	0.068
JS310-JS311	300	112.799	0.159	0.002	0.000	0.000
JS311-JS312	300	501.400	12.592	0.166	0.121	0.061
JS313-JS314	300	331.368	23.840	0.314	0.394	0.131
JS314-JS315	300	325.917	7.077	0.093	0.042	0.014
JS314-JS317	300	307.965	11.830	0.156	0.108	0.033
JS315-JS316	300	239.841	4.185	0.055	0.016	0.004
JS316-JS317	300	280.151	8.344	0.110	0.057	0.016