

API Standard 607 Fourth Edition
With Exxon modifications
Fire Test Report

Performed for

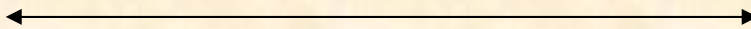
Triangle Fluid Controls Ltd.

www.trianglefluid.com



6 inch Class 300
Durlon® Durtec™ Gaskets

Project Number: 20978
June 2009



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY

434 Walnut Hill Road
North Yarmouth, ME 04097 USA
(207) 829-5359

info@yarmouthresearch.com
www.yarmouthresearch.com

Yarmouth Research and Technology

API 607 4th Edition Fire Test Data

Customer: Triangle Fluid Controls Ltd.	Date: 7/14/2009
Project Number: PN20978	
Specification: API 607 4th Edition	
Product Code: Durlon® Durtec™ Gaskets	
Flange Mfgr: Weldbend	
Nut +Bolt Mfgr: Alloy & Stainless Fasteners/Shih Hsang	
Comments: New bolts, nuts and flanges	
YRT Technician: Matthew J. Wasielewski, P.E.	

Bolt Torques (ft-lbs)

Bolt Location	At Start of Test	At End of Test
Upstream #1	200	100
Upstream #2	200	120
Upstream #3	200	120
Upstream #4	200	100
Downstream #1	200	100
Downstream #2	200	120
Downstream #3	200	120
Downstream #4	200	140

Fire and Cooldown Data:

Start Time:	3:40 PM	(EST)
Average Test Pressure:	30	psig
Combined Leak Rate of Both Gaskets:	1	ml/min
Allowable Leakage:	150	ml/min
Is Leakage Below Allowable?:	YES	

Post Burn Leakage Test

Start Time:	4:20 PM	(EST)
Average Test Pressure:	30	psig
Leak Rate Side A:	0	ml/min
Leak Rate Side B:	0	ml/min
Combined Leak Rate of Both Gaskets:	0	ml/min
Allowable Leakage:	150	ml/min
Is Leakage Below Allowable?:	YES	

Does Gasket Pass API 607 Leakage Requirements?:	YES
---	------------

Witnesses



Yarmouth Research and Technology

Exxon Additional Requirements to API 607 4th Edition Fire Test

Customer: Triangle Fluid Controls Ltd.	Date: 7/14/2009
Project Number: PN20978	
Specification: Exxon additional requirements to API 607 4th Edition	
Product Code: Durlon® Durtec™ Gaskets	
Flange Mfgr: Weldbend	
Nut +Bolt Mfgr: Alloy & Stainless Fasteners/Shih Hsang	
Comments:	
YRT Technician: Matthew J. Wasielewski, P.E.	

Bolt Torques (ft-lbs)

Bolt Location	At Start of Test	Before Adjustments	At Test Completion
Upstream #1	200		100
Upstream #2	200		120
Upstream #3	200		120
Upstream #4	200		100
Downstream #1	200		100
Downstream #2	200		120
Downstream #3	200		120
Downstream #4	200		140

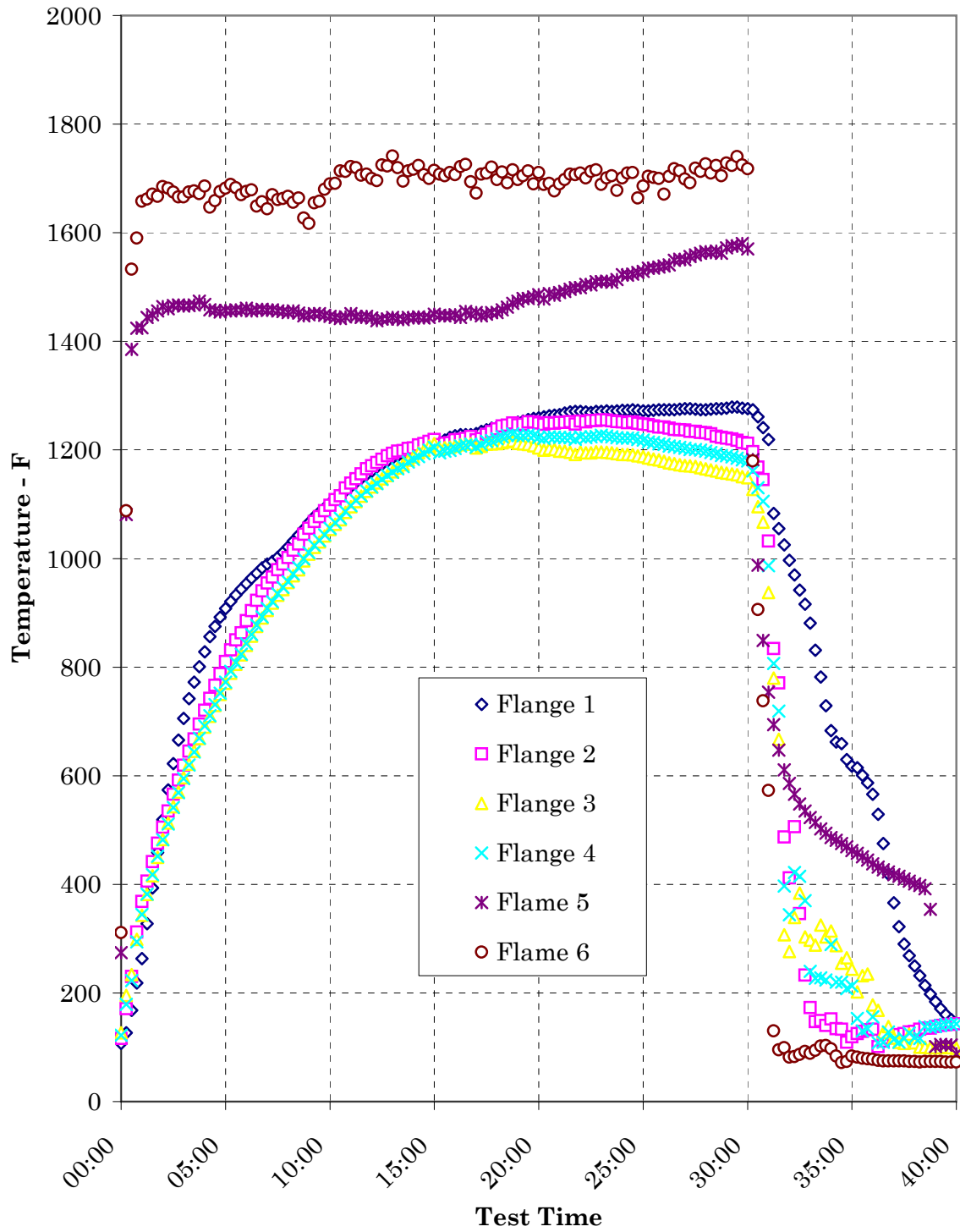
Test Pressure (psig)	Side A Leak Rate (ml/min)	Side B Leak Rate (ml/min)	Total Leak Rate (ml/min)	Flange Bolt Retorques
30	0	0	0	
50	0	0	0	
100	0	0	0	
200	0	0	0	
300	0	0	0	
700	0	0	0	

Combined leakage was less than 150 ml/min at all pressures.

Witnesses _____



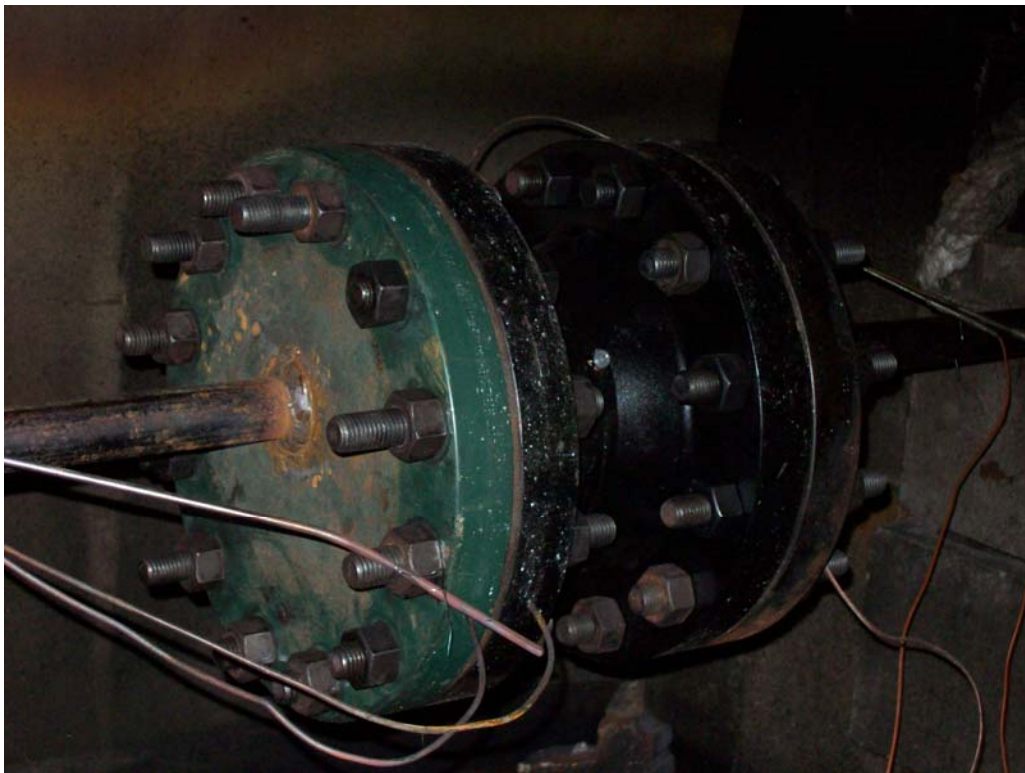
Time versus Temperature Chart



Yarmouth Research and Technology



Sample of Gasket Before Test



Test Setup

Yarmouth Research and Technology



Assembly During Burn

Yarmouth Research and Technology



Gaskets After Test

Durlon® Durtec™ gaskets are made with a specially engineered corrugated metal core that is bonded on both sides with soft covering layers, typically flexible graphite. The core is produced by patented technology that allows the finished gasket to have the best possible mechanical support function. Corrugations in the Durtec™ core are virtually uncrushable unlike conventional corrugated metal core gaskets. The precision construction guarantees that Durlon® Durtec™ gaskets will have excellent sealing characteristics even under low bolt loads.

Application

Durlon® Durtec™ gaskets can be used in any industry where excellent sealing characteristics are required. We manufacture gaskets for virtually any connection configuration such as pipeline flanges, valves, small and large pressure vessels, heat exchangers, towers, tanks, etc. The Durtec™ gasket is designed to withstand high temperatures and pressures, to be blowout resistant, to be fire safe, and to resist toxic and/or corrosive chemicals. The design of the Durtec™ gasket also makes it an excellent choice for tough to seal cyclical pressure and temperature applications. Durlon® Durtec™ gaskets will meet all of your sealing requirements.

Durlon® Durtec™ gaskets have a much lower leakage rate as compared with spiral wound type gaskets under conditions of the same loading stresses. They provide excellent sealing performance and safety after installation and are an excellent choice to replace spiral wound gaskets.

Sizes, Types, & Materials

- ◆ Standard ASME, DIN, JIS, and BS EN sizes
- ◆ Non-Standard MSS SP-44, API 605, and other sizes up to 236" (6m) in diameter
- ◆ Ovals (normal or irregular), manways, track shapes, diamonds, squares/rectangles, with ribs, etc.
- ◆ Standard core material is 316L stainless steel. Other core materials such as SS304, SS321, SS316Ti, Monel®, Titanium, Hastelloy®, and Alloy 20 can be manufactured to your specifications upon request.
- ◆ Alternate facing material is available upon request. Popular materials include Durlon® 9600 expanded PTFE (ePTFE), mica, and ceramic.

Physical Properties

Temperature (according to selected materials)

Min.	-200°C (-328°F)
Max.	1000°C (1832°F)
Pressure, max	4600 psi (320 bar)
pH Range, room temp.	0 to 14

Thickness: 1/16" to 5.0mm (according to selected materials and application requirements)

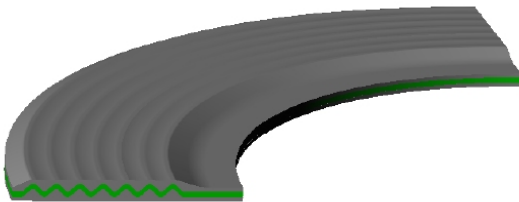
Gasket Factors

Gb, psi	187
---------	-----

a	0.467
Gs, psi	0.5
m	1.5
Y, psi	833

The Durtec™ Advantage

- 🔧 **Fire Safe** – SS316L/Graphite Passed Modified API 607 fire test
- 🔧 **Blow Out Resistant** – Metal core provides excellent resistance to internal pressure spikes
- 🔧 **Reusable** – On larger sizes and for special configurations, the core may be refaced with new material and reused providing lower cost of ownership
- 🔧 **Superior Core Technology** – Durtec™ design can allow for complete replacement of spiral wound and kammprofile gaskets with improved performance and lower life cycle cost
- 🔧 **Easy and safe to handle, easy to install**
- 🔧 **Seals tightly with lower bolt loads** vs. spiral wounds and kammprofiles



Monel is a registered trademark of Special Metals Corporation.
Hastelloy is a registered trademark of Haynes International Inc.

Yarmouth Research and Technology

Fire Test Information

Customer: Triangle Fluid Controls Ltd.

Date: 7/14/2009

Project Number: PN20978

Product Code: Durlon® Durtec™ Gaskets

Burn and Cooldown Raw Data

Time	Pressure (psig)	Water Volume (mls)	Upstream Flange 1 Temp - F	Upstream Flange 2 Temp - F	Downstrm Flange 3 Temp - F	Downstrm Flange 4 Temp - F	Upstream Flame 5 Temp - F	Downstrm Flame 6 Temp - F
15:40:00	30.8	27499	107	116	126	122	274	311
15:40:15	30.8	27499	127	171	196	179	1081	1088
15:40:30	30.8	27517	168	230	234	223	1385	1533
15:40:45	30.8	27519	219	312	298	294	1424	1590
15:41:00	30.9	27529	263	369	343	344	1425	1658
15:41:15	30.9	27526	328	406	381	382	1444	1662
15:41:30	30.9	27534	393	442	416	418	1449	1671
15:41:45	30.8	27533	459	476	450	452	1456	1667
15:42:00	30.9	27546	519	505	483	482	1464	1685
15:42:15	30.8	27548	574	535	513	511	1460	1682
15:42:30	30.9	27561	622	566	543	542	1466	1675
15:42:45	30.9	27569	666	592	570	569	1467	1666
15:43:00	30.9	27579	705	619	596	595	1465	1666
15:43:15	30.9	27598	742	645	621	620	1466	1675
15:43:30	30.9	27608	772	668	645	644	1467	1677
15:43:45	30.9	27610	801	695	669	669	1474	1672
15:44:00	30.9	27623	828	721	690	691	1468	1686
15:44:15	30.9	27636	856	742	709	711	1458	1647
15:44:30	30.9	27671	875	766	729	731	1457	1659
15:44:45	31.0	27676	892	788	750	752	1454	1676
15:45:00	30.9	27692	908	810	771	772	1457	1682
15:45:15	31.0	27743	921	832	789	792	1456	1689
15:45:30	31.0	27781	933	850	805	808	1458	1683
15:45:45	31.0	27745	944	863	823	824	1457	1670
15:46:00	31.1	27809	954	885	840	843	1461	1676
15:46:15	31.1	27842	964	904	857	860	1456	1679
15:46:30	31.0	27876	973	923	875	877	1458	1649
15:46:45	31.1	27930	983	941	891	893	1459	1657
15:47:00	31.1	27991	990	955	904	908	1457	1644
15:47:15	31.1	27993	995	966	918	920	1458	1670
15:47:30	31.2	28135	1002	979	932	935	1456	1661
15:47:45	31.2	28228	1011	990	943	947	1455	1663
15:48:00	31.3	28408	1021	1002	956	957	1453	1667
15:48:15	31.4	28654	1032	1015	968	972	1456	1656
15:48:30	31.6	29111	1043	1027	979	983	1452	1664
15:48:45	31.9	29763	1054	1044	996	999	1447	1627
15:49:00	32.9	30563	1066	1056	1008	1010	1449	1617

Yarmouth Research and Technology

Time	Pressure (psig)	Water Volume (mls)	Upstream Flange 1 Temp - F	Upstream Flange 2 Temp - F	Downstrm Flange 3 Temp - F	Downstrm Flange 4 Temp - F	Upstream Flame 5 Temp - F	Downstrm Flame 6 Temp - F
15:49:15	33.8	31325	1077	1068	1021	1024	1451	1655
15:49:30	33.4	32045	1085	1077	1030	1033	1451	1658
15:49:45	33.7	32364	1093	1088	1042	1044	1448	1680
15:50:00	33.6	32364	1102	1098	1054	1056	1446	1690
15:50:15	34.0	32736	1110	1109	1063	1066	1444	1691
15:50:30	34.4	32844	1118	1115	1072	1074	1442	1714
15:50:45	34.9	32965	1125	1130	1085	1087	1445	1713
15:51:00	35.1	33009	1133	1139	1095	1097	1451	1722
15:51:15	35.5	33178	1141	1147	1105	1107	1446	1720
15:51:30	35.5	33222	1148	1156	1115	1116	1444	1706
15:51:45	35.5	33311	1155	1165	1124	1124	1446	1708
15:52:00	35.5	33605	1161	1171	1132	1131	1443	1700
15:52:15	35.7	33511	1169	1177	1139	1138	1438	1696
15:52:30	35.7	33641	1174	1183	1147	1146	1441	1725
15:52:45	35.7	33372	1180	1189	1153	1153	1441	1723
15:53:00	31.3	29671	1185	1194	1160	1159	1444	1741
15:53:15	30.1	30183	1189	1198	1167	1165	1441	1720
15:53:30	30.4	30969	1192	1199	1173	1170	1440	1695
15:53:45	30.6	30800	1195	1203	1181	1178	1444	1714
15:54:00	30.7	30676	1197	1204	1187	1183	1443	1717
15:54:15	30.8	31728	1199	1209	1195	1188	1445	1724
15:54:30	29.1	31467	1202	1212	1199	1193	1443	1707
15:54:45	28.6	31088	1206	1216	1207	1200	1444	1700
15:55:00	29.0	31191	1210	1219	1211	1205	1450	1715
15:55:15	29.6	31715	1214	1210	1202	1195	1448	1708
15:55:30	29.2	31408	1218	1212	1204	1198	1447	1705
15:55:45	28.6	31188	1223	1213	1205	1199	1447	1711
15:56:00	29.1	31353	1226	1219	1207	1203	1449	1707
15:56:15	29.3	31144	1228	1219	1210	1207	1444	1722
15:56:30	29.2	31188	1228	1221	1211	1209	1455	1726
15:56:45	29.4	31409	1228	1225	1211	1211	1450	1694
15:57:00	29.2	31493	1230	1219	1204	1205	1453	1673
15:57:15	29.1	31468	1234	1221	1207	1210	1447	1708
15:57:30	29.2	31493	1237	1229	1211	1216	1450	1710
15:57:45	29.1	31406	1240	1234	1211	1217	1453	1721
15:58:00	29.0	31345	1242	1239	1212	1221	1453	1698
15:58:15	28.4	31112	1245	1244	1213	1224	1458	1712
15:58:30	28.7	30925	1246	1246	1215	1227	1463	1692
15:58:45	29.1	31033	1248	1249	1217	1230	1470	1716
15:59:00	29.2	31234	1251	1246	1212	1227	1474	1698
15:59:15	29.4	31399	1253	1247	1211	1226	1479	1705
15:59:30	29.4	31404	1256	1252	1210	1228	1479	1714
15:59:45	29.2	31287	1258	1251	1208	1226	1482	1690
16:00:00	28.9	31144	1259	1249	1203	1223	1486	1711
16:00:15	28.8	31041	1261	1247	1199	1221	1478	1689
16:00:30	29.0	31067	1263	1250	1202	1224	1488	1691

Yarmouth Research and Technology

Time	Pressure (psig)	Water Volume (mls)	Upstream Flange 1 Temp - F	Upstream Flange 2 Temp - F	Downstrm Flange 3 Temp - F	Downstrm Flange 4 Temp - F	Upstream Flame 5 Temp - F	Downstrm Flame 6 Temp - F
16:00:45	29.3	31456	1264	1249	1200	1223	1485	1677
16:01:00	29.2	31061	1265	1251	1198	1223	1490	1690
16:01:15	28.4	31298	1268	1251	1198	1223	1492	1698
16:01:30	29.6	31420	1270	1252	1196	1222	1496	1708
16:01:45	29.4	31352	1271	1247	1192	1220	1499	1707
16:02:00	29.4	31148	1271	1253	1196	1224	1499	1710
16:02:15	29.4	30857	1270	1252	1195	1223	1505	1701
16:02:30	28.0	29243	1269	1254	1195	1224	1504	1713
16:02:45	29.4	31222	1271	1254	1196	1225	1510	1716
16:03:00	29.2	31264	1271	1255	1196	1227	1510	1689
16:03:15	29.6	31514	1272	1255	1196	1226	1511	1701
16:03:30	29.3	30729	1271	1253	1195	1224	1509	1705
16:03:45	29.5	31427	1272	1252	1193	1223	1514	1678
16:04:00	29.5	31800	1273	1251	1192	1222	1523	1701
16:04:15	29.2	31250	1273	1250	1192	1222	1522	1710
16:04:30	28.1	30858	1274	1251	1191	1222	1524	1711
16:04:45	30.3	31864	1273	1249	1189	1219	1527	1664
16:05:00	29.2	31131	1272	1247	1188	1218	1529	1686
16:05:15	29.8	31666	1272	1246	1185	1215	1535	1704
16:05:30	29.3	30609	1273	1244	1183	1214	1535	1702
16:05:45	29.6	31484	1274	1242	1182	1211	1537	1700
16:06:00	29.1	31165	1274	1242	1179	1210	1539	1671
16:06:15	30.1	31717	1274	1240	1176	1207	1541	1704
16:06:30	29.4	31190	1274	1238	1175	1206	1549	1718
16:06:45	29.3	31342	1275	1237	1173	1205	1551	1714
16:07:00	29.2	31383	1276	1237	1171	1203	1550	1699
16:07:15	29.6	31418	1276	1234	1171	1201	1556	1692
16:07:30	29.6	31392	1275	1234	1170	1201	1559	1719
16:07:45	29.4	31036	1274	1232	1167	1200	1562	1713
16:08:00	29.4	31230	1274	1232	1165	1197	1565	1727
16:08:15	29.0	31214	1275	1230	1163	1195	1563	1710
16:08:30	29.5	31141	1276	1225	1161	1193	1566	1724
16:08:45	29.6	31504	1276	1223	1159	1190	1562	1705
16:09:00	29.6	31481	1277	1222	1157	1189	1572	1728
16:09:15	29.6	31402	1279	1220	1156	1187	1576	1724
16:09:30	29.5	31344	1279	1218	1154	1185	1575	1740
16:09:45	29.5	31463	1277	1214	1151	1182	1580	1725
16:10:00	29.6	31304	1276	1212	1149	1180	1570	1718
16:10:15	29.3	31365	1274	1196	1127	1161	1182	1180
16:10:30	29.6	31463	1261	1168	1095	1130	988	906
16:10:45	29.4	31355	1241	1145	1067	1105	849	738
16:11:00	29.5	31981	1219	1032	937	987	754	573
16:11:15	29.0	30726	1083	834	780	807	694	130
16:11:30	29.6	31524	1055	771	667	719	647	95
16:11:45	29.9	31570	1025	487	307	397	611	99
16:12:00	28.8	31394	997	412	276	344	586	82

Yarmouth Research and Technology

Time	Pressure (psig)	Water Volume (mls)	Upstream Flange 1 Temp - F	Upstream Flange 2 Temp - F	Downstrm Flange 3 Temp - F	Downstrm Flange 4 Temp - F	Upstream Flame 5 Temp - F	Downstrm Flame 6 Temp - F
16:12:15	28.8	31328	970	506	339	422	566	83
16:12:30	29.0	30745	942	346	384	415	548	87
16:12:45	29.5	31439	916	233	303	370	535	92
16:13:00	28.6	30211	881	173	297	240	523	89
16:13:15	27.9	27114	831	147	288	227	514	94
16:13:30	27.4	27817	782	149	325	228	502	102
16:13:45	27.3	27468	729	140	303	224	494	103
16:14:00	27.4	27224	683	152	314	289	486	97
16:14:15	27.2	27546	662	134	287	220	481	84
16:14:30	27.1	27717	659	133	255	220	475	72
16:14:45	27.1	27578	630	109	265	208	469	74
16:15:00	27.1	27604	618	119	244	213	462	84
16:15:15	27.6	27718	615	125	202	153	457	82
16:15:30	31.1	27634	601	129	232	130	451	80
16:15:45	30.9	27503	587	132	235	134	445	79
16:16:00	31.0	27538	566	133	178	156	438	78
16:16:15	31.0	27566	529	101	168	108	432	76
16:16:30	31.1	27621	475	111	127	109	427	75
16:16:45	31.2	27670	419	117	138	128	423	75
16:17:00	31.3	27738	366	121	117	114	418	75
16:17:15	31.5	27801	322	123	109	109	415	75
16:17:30	31.5	27855	290	125	107	116	410	75
16:17:45	31.7	27892	269	128	124	126	406	74
16:18:00	31.8	27943	250	129	108	118	401	74
16:18:15	32.0	27997	232	133	100	116	398	73
16:18:30	32.0	27657	214	135	100	138	392	74
16:18:45	32.1	27504	198	135	99	137	354	74
16:19:00	32.3	27560	184	138	99	138	101	74
16:19:15	32.3	27526	171	140	99	140	105	74
16:19:30	32.4	27493	160	141	100	142	104	73
16:19:45	32.5	27477	151	142	99	142	104	73
16:20:00	32.5	27454	143	143	98	143	88	73

End of 30 minute Burn and 10 minute Cooldown

Yarmouth Research and Technology

Leakage Summary for Burn and Cool Down Periods

Leakage was collected electronically.

Start Water Volume:	27499	mls
End Water Volume:	27454	mls
Total Water Lost During 40 Minute Burn and Cooldown:	45	mls
Water Collected in System Relief:	0	mls
Calculated Water Leakage:	45	mls
Calculated Average Leak Rate Over 40 Minute Duration:	1.1	ml/min

Summary of Test Parameters During Burn and Cool Down Periods

Pressure Information

Amount of Time Pressure Dropped Below 15 psig:	0	minutes
Maximum Allowable Low Pressure Time:	2	minutes
Average Pressure During Burn:	30.4	psig
Maximum Pressure During Burn/Cool Down:	35.7	psig
Minimum Pressure During Burn/Cool Down:	27.1	psig

Flange Temperature Information

Three out of four times must be greater than 15:00.

Flange Number	Time Temp > 1200 deg.	Max Temp-F	Min Temp-F	Average Temp-F
1	15.3	1279	107	981
2	18.0	1255	101	882
3	15.8	1217	99	855
4	11.5	1230	108	863

Flame Temperature Information

Maximum Upstream Flame Temperature During Burn:	1580	deg. F
Average Upstream Flame Temperature During Burn:	1235	deg. F
Maximum Downstream Flame Temperature During Burn:	1741	deg. F
Average Downstream Flame Temperature During Burn:	1314	
Average of Both Flame Temperatures During Burn:	1274	deg. F

Notes

Yarmouth Research and Technology

Post Burn Test Information

Customer: Triangle Fluid Controls Ltd.

Date: 7/14/2009

Project Number: PN20978

Product Code: Durlon® Durtec™ Gaskets

Test Pressure: 30

Raw Data

Time	Pressure (psig)	Flange 1 Temp - F	Flange 2 Temp - F	Flange 3 Temp - F	Flange 4 Temp - F
16:20:30	30	172	167	165	166
16:20:45	30	172	168	165	166
16:21:00	30	170	167	165	166
16:21:15	30	171	166	164	165
16:21:30	30	170	167	164	166
16:21:45	30	169	166	165	166
16:22:00	30	169	167	163	165
16:22:15	30	171	166	164	165
16:22:30	30	170	167	163	165
16:22:45	30	169	166	165	166
16:23:00	30	169	166	163	164
16:23:15	30	170	166	163	164
16:23:30	30	169	165	163	164
16:23:45	30	167	166	158	162
16:24:00	30	169	166	164	165
16:24:15	30	167	165	162	164
16:24:30	30	167	168	161	164
16:24:45	30	168	166	163	164
16:25:00	30	165	165	159	162
16:25:15	30	167	165	163	164
16:25:30	30	167	166	163	164

Leakage Collected from Upstream Flange Gasket A:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Leakage Collected from Downstream Flange Gasket B:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Was the Combined Leakage Below 150 ml/min?	Yes	

Yarmouth Research and Technology

Post Burn Test Information

Customer: Triangle Fluid Controls Ltd.

Date: 7/14/2009

Project Number: PN20978

Product Code: Durlon® Durtec™ Gaskets

Test Pressure: 50

Raw Data

Time	Pressure (psig)	Flange 1 Temp - F	Flange 2 Temp - F	Flange 3 Temp - F	Flange 4 Temp - F
16:28:33	50	166	164	161	162
16:28:48	50	165	164	161	162
16:29:03	50	165	165	160	162
16:29:18	50	165	164	160	162
16:29:33	50	164	163	159	161
16:29:48	50	164	164	160	162
16:30:03	50	163	163	159	161
16:30:18	50	164	163	159	161
16:30:33	50	164	163	159	161
16:30:48	50	163	163	158	160
16:31:03	50	163	163	158	160
16:31:18	50	163	163	159	161
16:31:33	50	163	163	158	160
16:31:48	50	162	162	159	160
16:32:03	50	163	163	159	161
16:32:18	50	162	162	157	160
16:32:33	50	163	162	157	160
16:32:48	50	162	162	159	160
16:33:03	50	162	162	158	160
16:33:18	50	161	162	157	160
16:33:33	50	162	162	158	160

Leakage Collected from Upstream Flange Gasket A:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Leakage Collected from Downstream Flange Gasket B:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Were Both Flange Leakages Below 150 ml/min?	Yes	

Yarmouth Research and Technology

Post Burn Test Information

Customer: Triangle Fluid Controls Ltd.

Date: 7/14/2009

Project Number: PN20978

Product Code: Durlon® Durtec™ Gaskets

Test Pressure: 100

Raw Data

Time	Pressure (psig)	Flange 1 Temp - F	Flange 2 Temp - F	Flange 3 Temp - F	Flange 4 Temp - F
16:40:12	101	160	161	156	158
16:40:27	101	161	161	156	158
16:40:42	101	160	161	156	158
16:40:57	100	160	160	156	158
16:41:12	100	160	161	155	158
16:41:27	100	159	160	156	158
16:41:42	100	160	160	155	158
16:41:57	100	159	160	156	158
16:42:12	100	159	160	155	158
16:42:27	100	159	160	155	158
16:42:42	100	158	159	155	157
16:42:57	100	160	159	155	157
16:43:12	100	158	159	155	157
16:43:27	100	158	159	155	157
16:43:42	100	158	160	155	158
16:43:57	100	158	159	154	156
16:44:12	100	158	159	154	156
16:44:27	100	158	159	154	156
16:44:42	100	158	158	154	156
16:44:57	100	157	158	154	156
16:45:12	100	158	159	154	156

Leakage Collected from Upstream Flange Gasket A:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Leakage Collected from Downstream Flange Gasket B:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Were Both Flange Leakages Below 150 ml/min?	Yes	

Yarmouth Research and Technology

Post Burn Test Information

Customer: Triangle Fluid Controls Ltd.

Date: 7/14/2009

Project Number: PN20978

Product Code: Durlon® Durtec™ Gaskets

Test Pressure: 200

Raw Data

Time	Pressure (psig)	Flange 1 Temp - F	Flange 2 Temp - F	Flange 3 Temp - F	Flange 4 Temp - F
16:51:45	200	156	157	153	155
16:52:00	200	156	157	153	155
16:52:15	200	155	157	151	154
16:52:30	200	156	157	152	154
16:52:45	200	155	157	153	155
16:53:00	201	155	156	151	154
16:53:15	200	155	157	153	155
16:53:30	200	155	156	151	154
16:53:45	200	156	156	152	154
16:54:00	201	154	156	151	154
16:54:15	200	155	157	152	154
16:54:30	200	155	156	152	154
16:54:45	200	154	156	151	154
16:55:00	200	155	156	152	154
16:55:15	200	154	155	151	153
16:55:30	200	154	155	151	153
16:55:45	200	154	155	152	154
16:56:00	200	153	155	151	153
16:56:15	200	153	156	150	153
16:56:30	200	153	155	153	154
16:56:45	200	153	155	150	152

Leakage Collected from Upstream Flange Gasket A:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Leakage Collected from Downstream Flange Gasket B:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Were Both Flange Leakages Below 150 ml/min?	Yes	

Yarmouth Research and Technology

Post Burn Test Information

Customer: Triangle Fluid Controls Ltd.

Date: 7/14/2009

Project Number: PN20978

Product Code: Durlon® Durtec™ Gaskets

Test Pressure: 300

Raw Data

Time	Pressure (psig)	Flange 1 Temp - F	Flange 2 Temp - F	Flange 3 Temp - F	Flange 4 Temp - F
17:02:32	300	152	153	150	152
17:02:47	300	152	154	150	152
17:03:02	300	152	153	150	152
17:03:17	300	152	152	149	150
17:03:32	301	152	153	149	151
17:03:47	301	151	153	149	151
17:04:02	301	151	153	149	151
17:04:17	301	152	153	149	151
17:04:32	301	151	153	149	151
17:04:47	301	151	153	148	150
17:05:02	302	150	153	148	150
17:05:17	301	151	152	148	150
17:05:32	301	150	152	149	150
17:05:47	301	150	152	147	150
17:06:02	301	150	153	148	150
17:06:17	301	151	152	148	150
17:06:32	301	150	151	148	150
17:06:47	301	149	151	148	150
17:07:02	301	150	151	148	150
17:07:17	301	149	151	147	149
17:07:32	301	149	151	147	149

Leakage Collected from Upstream Flange Gasket A:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Leakage Collected from Downstream Flange Gasket B:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Were Both Flange Leakages Below 150 ml/min?	Yes	

Yarmouth Research and Technology

Post Burn Test Information

Customer: Triangle Fluid Controls Ltd.

Date: 7/14/2009

Project Number: PN20978

Product Code: Durlon® Durtec™ Gaskets

Test Pressure: 700

Raw Data

Time	Pressure (psig)	Flange 1 Temp - F	Flange 2 Temp - F	Flange 3 Temp - F	Flange 4 Temp - F
11:15:30	700	148	150	145	148
11:15:45	700	149	150	145	148
11:16:00	700	149	150	146	148
11:16:15	700	148	149	146	148
11:16:30	700	148	149	145	147
11:16:45	700	148	150	145	148
11:17:00	700	148	150	146	148
11:17:15	700	148	149	146	148
11:17:30	700	147	149	145	147
11:17:45	700	147	150	144	147
11:18:00	700	147	149	146	148
11:18:15	702	147	149	146	148
11:18:30	702	147	148	144	146
11:18:45	702	147	149	144	146
11:19:00	701	148	148	146	147
11:19:15	701	146	149	144	146
11:19:30	701	146	149	145	147
11:19:45	701	147	148	144	146
11:20:00	701	146	148	145	146
11:20:15	701	145	148	143	146
11:20:30	701	146	148	143	146

Leakage Collected from Upstream Flange Gasket A:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Leakage Collected from Downstream Flange Gasket B:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Were Both Flange Leakages Below 150 ml/min?	Yes	