Detect – Repair - Save

Air Leak Detection Audit and Repair





Leaks in a compressed air system

Detect – Repair - Save

All compressed air systems have leaks. The average leakage rate is approximately 25% but some plants lose as much as 80% of their compressed air due to leaks. A single 3mm diameter leak can cost up to £600 a year.

While it may not be practical to eliminate all leaks, it is not difficult to greatly reduce and minimise them. The percentage lost to leakage should be less than 10% of your total compressed air production. A well-maintained system with a proactive leak detection programme in place should allow you to achieve this.

In addition to being a source of wasted energy, leaks can also contribute to other operating losses. By forcing the equipment to cycle more frequently, leaks shorten the life of almost all system equipment (including the compressor package itself). They cause a drop in system pressure, which can make applications run less efficiently, adversely affecting production.

The benefits of an air leak detection audit:

- Reduced energy consumption
- Cost savings
- Short payback period
- Less environmental impact
- Improved reliability
- Prolonged equipment life
- Production lines operate more efficiently and to their optimum capacity
- A pro-active process that can be planned and timed
- · Equipment runs more quietly leading to more comfortable working conditions

Common causes of leaks in a compressed air system:

While leakage can come from any part of the system, the most common problem areas are:

- Couplings, hoses, tubes, and fittings (tubes and push-to-lock fittings in particular)
- Disconnects: O-rings required to complete the seal may be missing.
- Filters, regulators and lubricators (FRLs): Low first-cost, improperly installed FRLs often leak.
- Open condensate traps: Improperly operating solenoids and dirty seals are often problem areas.
- Pipe joints: Missed welds are a common problem.
- Control and shut-off valves: Worn packing through the stem can cause leaks.
- Point of use devices: Old or poorly maintained tools can have internal leaks.
- Flanges: Missed welds are a common problem.
- Cylinder rod packing: Worn packing materials can cause leaks.
- Thread sealants: Incorrect and/or improperly applied thread sealants cause leaks.



Increased running time due to air leaks can lead to additional maintenance requirements and increased unscheduled downtime. Finally, leaks can lead to increasing compressor capacity unnecessarily.

BCAS specialist engineers have extensive knowledge of compressed air systems and our state-of-the-art ultrasonic testing equipment provides accurate results to allow us to identify and quantify all air leaks – many of which are not audible. Our comprehensive leak assessment and repair programme can vastly improve the operation and efficiency of your facility and generate significant financial savings.

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Audit and repair





Repairs are carried out and recommendations are made regarding user best practice to identify and minimise future leaks. A comprehensive report is produced with the results of the audit, recording all leaks, locations and projected costs. Repair recommendations and costs are also included.

BCAS can manage the entire process for you: from logging the performance of your system, to identifying and repairing leaks. We recommend that data logging is carried out prior to a leak detection audit to determine the energy costs of running your equipment, and then after repairs are made so that you can see just how much you are saving.



Example: Snapshot

Detect – Repair - Save

These are some examples of leaks that have been identified, recorded and tagged during a leak detection audit. Calculations are then made to establish how much air and therefore money is being lost to each individual leak every year and how much it will cost to repair.

Leak 7 - Fresh milk pasteuriser 10 mm pushfit



Severity: 3 Total air loss: 3.75 CFM Cost per year: £532.17 Cost to repair: £90

Leak 27 - Line 5 - behind milk filler, behind desiccant dryer



Severity: 5 Total air loss: 6.25 CFM Cost per year: £886.95 Cost to repair: £95

Leak 43 - Beneath date labeler 6mm pushfitt on Manifold

Leak 39 - Behind tank 1060 6-8mm elbow



Severity: 4 Total air loss: 5 CFM Cost per year: £709.56 Cost to repair: £95



Severity: 2 Total air loss: 2.5 CFM Cost per year: £354.78 Cost to repair: £95

Tags are left in place so that leaks can be easily located when repairs are being carried out and data is compiled so that further calculations can be made. These results are then presented in report form for you to see exactly what has been found and what next steps should be.



Example: Snapshot

Detect – Repair - Save

This is an example of some of the data produced during an air leak detection audit. From this you can see the level of detail involved as well as the headline figures which illustrate the likely payback period of the entire project.

Location of Leak	Slide	Leak in Location	CFM Value	Est'd Value £	Cost to repair £	Est'd Payback £	Leak Tag #	Fittings/Parts Required	Photo #	Repair Responsibility
Raw milk cip	1	Think top V1033T	2.5	354.78	95.00	259.78	1	6mm Elbow	1	BCAS
Raw milk cip	2	Upper floor tank T142 V1074	2.5	354.78	95.00	259.78	2	6mm to 1/4" BSP	2	BCAS
Raw milk Silos	3	MS1B - TK06 Manifold	2.5	354.78	95.00	259.78	3	6mm to 1/4" BSP	3	BCAS
Kaw milk Silos	4	Downstairs payt to manifold V0391	3.75	332.17	95.00	422.17	4	2 x 6mm elbows to 1/8 BSP 6mm to 1/4" BSP puch fit	4	BCAS
Top Car Park	6	Valve V8631.170.26	6.25	886.95	55100	200.70	6	Valve seal in think top valve	6	Customer
Efficient plant	7	In front of vertical air receiver	2.5	354.78	120.00	234.78	7	Solenoid valve 2 x 8mm to 1/4 BSP	7	BCAS
Efficient plant	8	In front of main air receiver	2.5	354.78			8	Solenoid valve 110v	8	Customer
Milks process room	9	Top valve next to elec box 530-38-3	6.25	886.95			9	valve next to elec box 530-38-3	9	Customer
Milks process room	10	Manifold V1426 behind tank TK02 343	1.25	177.39	95.00	82.39	10	3/8 BSP fitting needs re-seal	10	BCAS
Milks process room	11	Valve next to tetra alcross	1.25	177.39	110.00	67.39	11	10mm tee	11	BCAS
Milks process room	13	Manifold in front of interface tank 102	1.25	177.39	140.00	37.39	13	3x6mm to 1/4 BSP push fitts	13	BCAS
RCA	14	Line 2 trolley lead entrance	3.75	532.17	140.00		14	Activator leaking	14	Customer
1st floor creamery	15	Steam activation regulator gauge	3.75	532.17	95.00	437.17	15	Gauge re-seal	15	BCAS
1st floor creamery	16	Back manifold off room V7119.170.27	2.5	354.78	140.00	214.78	16	1/4 - bmm push fit x 4	16	BCAS
1st floor creamery	17	P1002 main air machine in valve.	2.5	354.78	110.00	244.78	17	10mm to 1/2 BSP push fit	17	BCAS
1st floor creamery	18	P1011 panel back of reg block	2.5	354.78	110.00	244.78	18	3/8 BSP to 10mm push	18	BCAS
1st floor creamery	19	Behind 702 cabinet	1.25	177.39	110.00	67.39	19	6mm to 10mm reducer push fit	19	BCAS
1st floor creamery	20	Choosite room above control box 208-01	3./3	354.78	155.00	377.17	20	0mm to 1/8 BSP X 10	20	BCAS
1st floor creamery CIP	22	Lower floor between pipe runs	2.5	354.78	110.00	244.78	22	1/2" BSP - 10mm push fit	22	BCAS
1st floor creamery CIP	23	Elec Box CB301-05	3.75	532.17	160.00	372.17	23	6mm - 1/8 BSP push fitts x 8	23	BCAS
1st floor creamery CIP	24	Lower floor between pipe runs	2.5	354.78	110.00	244.78	24	1/2" BSP -10mm	24	BCAS
Cream almix 1200m	25	Underneath Almix tank A1202	3.75	532.17	95.00	437.17	25	1/8BSP to 6mm elbow	25	BCAS
Cream Almix room	26	Next to hopper panel manifold	1.25	177.39	95.00	82.39	26	Fittings re-seal	26	BCAS
Cream Almix room	27	Manifold behind tank 1092	2.5	354.78	95.00	259.78	27	Fittings re-seal	27	BCAS
Cream Almix room	28	Manifold above pig launch station 9	3.75	532.17	95.00	437.17	28	6mm-1/4 BSP push fit	28	BCAS
Cream Almix room	29	Launch station 1 manifold	2.5	533.17	95.00	259.78	29	Oring on filter	29	BLAS
Line 1	31	Bark of de-elevation on union	2.5	354.78	95.00	259.78	31	Re-seal union	31	BCAS
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Creamen 2nd flooi 2nd flooi Conti rol Milk process Milk process	45	Abover upstairs seperator 1	2.5	354.78	95.00	259.78	2 0,127	.31	45	BCAS
Creamer 2nd floo 2nd floo Conti rol MCDonal, Milk process separator room Milk process separator room	45 46	Abover upstalrs seperator 1 Upstalrs above seperator 2 on think top valve V212	2.5 2.5	354.78 354.78	95.00	259.76	20,127	.31 6mm pip 1/2 meter 6mm to blue think top	45 46	BCAS Customer
Creamer 2nd floo 2nd floo Conti rol Milk process separator room Milk process separator room Second floor creamery	45 46 47	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-11 underneath tank T1213	2.5 2.5 3.75	354.78 254.78 532.17	95.00	259.78	45 46 47	31 6mm pip 1/2 meter 6mm to blue think top 1/8 BSP to 6mm x 8	45 46 47	BCAS Customer BCAS
Creamer 2nd floo 2nd floo 2nd floo Conti rel Milk process separator room Milk process separator room Milk process separator room Second floor creamery Second floor creamery	45 46 47 48	Abover upstalrs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box (B30-21) underneath tank T1213 Pig launch manifold filler 6	2.5 2.5 3.75 2.5	354.78 254.78 532.17 354.78	95.00 160.00 95.00	259.78 372.17 259.78	45 46 47 48	31 6mm pip 1/2 meter 6mm to blue think top 1/8 859 to 6mm x 8 6mm to 1/4 859	45 46 47 48	BCAS Customer BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 333,34 Milk process Milk process seperator room Milk process seperator room Second floor creamery Second floor creamery Second floor creamery	45 46 47 48 49	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-31 underneath tank T1213 Pig launch manifold filler 6 Pig launch manifold filler 5	2.5 2.5 3.75 2.5 2.5 2.5	354.78 354.78 532.17 354.78 354.78 354.78	95.00 160.00 95.00 95.00	259.78 372.17 259.78 259.78 269.79	45 46 47 48 49 50	.31 6mm pip 1/2 meter 6mm to blue think top 1/8 BSP to 6mm x 8 6mm to 1/4 BSP 6mm to 1/4 BSP 1/4 BSP to 1/4 BSP	45 46 47 48 49 50	BCAS Customer BCAS BCAS BCAS BCAS
Creamer 2nd floo 2nd floo 2nd floo 2nd floo 2nd floo 2nd floo 2nd floo 2nd floo 2nd floo 3nd	45 46 47 48 49 50 51	Abover upstairs seperator 1 Upstairs salvore seperator 2 on think top valve V222 Elec box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5	2.5 2.5 3.75 2.5 2.5 2.5 2.5 2.5	354.78 354.78 332.17 354.78 354.78 354.78 354.78	95.00 160.00 95.00 95.00 95.00 95.00	259.78 372.17 259.78 259.78 259.78 259.78	45 46 47 48 49 50	6mm pip 1/2 meter 6mm to blue think top 1/8 85P to 6mm x 8 6mm to 1/4 85P 1/4 85P to 6mm elbow 1/4 85P to 6mm elbow	45 46 47 48 49 50 51	BCAS Customer BCAS BCAS BCAS BCAS BCAS
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Creamer 2nd flooi 2nd flooi Conti rol Milk process Milk process seperator room Milk process seperator room Milk process seperator room Second floor creamery Second floor creamery	45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-31 underneath tank T213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tettar pak cabiner 707 on gauge Inside elec box CB302-03 behind tank T1089 Filter bowl on main line in firnt of tank T1133 Valve seal on V8442 underneath tank T1133 Manifold sposite office red plug leaking Elec box CB 302-07 behind panel opposite washroom Manifold at back and between tanks T1059-T1057	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 110.00 160.00 160.00 60.00 60.00	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 372.17 372.17 254.78	45 46 47 48 49 50 51 52 53 53 54 55 56 57 58 59 60	.311 6mm pip 1/2 meter 6mm to blue think top 1/8 857 to 6mm x 8 6mm to 1/4 85P 6mm to 1/4 85P 1/4 857 to 6mm pushfit 1/4 857 to 6mm elbow 1/4 857 to 6mm melbor 1/4 857 to 6mm elbow 1/4 857 to 6mm melbor 1/4 857 to 6mm melbor 1/4 857 to 6mm sushfit Think top valve 3/8 plug 3/8 plug 1/4 859 P fug 1/4 859 P log	45 46 47 50 51 52 53 54 55 55 56 57 58 59 60	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
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Creamer 2nd floo 2nd floo 3nd floo 3nd floo 2nd	45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch mater and state tank T133 Manifold 202-07 behind panel opposite washroom Elec box CB 302-07 behind panel opposite washroom Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1057	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 60.00	259.76 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 372.17 372.17 294.78 294.78 294.78 294.78	45 46 47 48 49 50 51 52 53 54 55 56 57 57 58 59 60 61 61 62	31 6mm pip 1/2 meter 6mm to blue think top 1/8 85? to 6mm x 8 6mm to 1/4 85P 1/4 85? to 6mm pushfit 1/4 85? to 6mm pushfit 1/4 85? to 6mm pushfit 1/4 85? to 10mm pushfit 1/4 85? to 10mm pushfit Think top valve 3/8 plug 1/4 85? to 10mm nushfit 1/2 8 blug 1/2 Plug 1/2 Plug 1/2 Plug 1/2 Plug 1/2 Plug 1/2 Plug	45 46 47 48 49 51 52 53 53 54 55 56 55 55 55 56 60 61 62	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd floo	45 46 47 48 49 50 51 52 53 55 55 55 55 55 55 55 60 61 62 63	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-31 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tettar pak cabiner 707 on gauge Inside else box CB302-03 behind tank T1089 Filter bowl on main line in front of tank T1133 Manifold sourd Devotes tanks T103-T1037 Manifold at back and between tanks T1039-T1057 Manifold at back and between tanks T1059-T1055 Manifold at back and between tanks T1059-T1055	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78	95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 95.00 160.00 160.00 60.00 60.00 160.00 160.00	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 359.78 437.17 244.78 791.95 472.17 372.17 294.78 294.78 294.78 294.78 294.78	45 46 47 48 49 50 51 52 53 53 54 55 55 56 57 58 59 60 61 61 62 63	.311 6mm pip 1/2 meter 6mm to blue think top 1/8 857 to 6mm x 8 6mm to 1/4 85P 6mm to 1/4 85P 1/4 857 to 6mm pushfit 1/4 857 to 6mm elbow 1/4 857 to 6mm pushfit 1/4 857 to 6mm elbow 1/4 859 to 6mm pushfit 1/8 85P to 6mm staffit 1/8 85P to 6mm staffit 1/4 859 to 6mm staffit 1/4 859 to 6mm staffit 1/4 859 Plug 1/2 B10	45 46 47 48 50 51 52 53 53 54 55 57 57 57 58 59 60 61 61 63	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd floo	45 46 47 48 49 50 51 52 53 55 55 55 55 55 56 60 61 61 62 63 64	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tetra pak cabinet 707 on gauge Filler bowl on main line in front of tank T1089 Filler bowl on main line in front of tank T1089 Filler bowl on main line in front of tank T1133 Manifold suback and between tanks T1059-T1057 Manifold at back	25 25 25 25 25 25 25 25 25 25 25 25 25 2	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 352.17 354.78 352.17 354.78 354.78 354.78 354.78 354.78	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 95.00 110.00 60.00	259.78 377.17 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 4472.17 372.17 294.78 294.78 294.78 294.78	45 46 47 48 49 50 51 52 53 54 54 55 56 57 57 58 59 60 61 61 62 63 64	6mm pip 1/2 meter 6mm to blue think top 1/8 BSP to 6mm x 8 6mm to 1/4 BSP 6mm to 1/4 BSP 6mm to 1/4 BSP 1/4 BSP to 6mm elbow 1/4 BSP to 6mm pushfit 1/4 BSP to 6mm slow 1/4 BSP to 6mm x 8 1/2 Blug 1/2 Plug 1/2 Plug 1/2 Plug 1/2 BSP to 6mm elbow x 8 1/2 Plug	45 46 47 50 51 53 53 53 54 55 56 57 58 59 60 61 61 62 63 64	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer Zond Tioo 2nd Tioo 2nd Tioo Anti rei Milk process Milk process seperator room Milk process seperator room Second floor creamery Second floor cream	45 46 47 48 49 50 51 52 53 55 55 55 55 55 55 55 55 55 55 55 55	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Dr right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tetra pak cabinet 707 on gauge Inside eleto box CB302-03 behind tank T1089 Filler bowl on main line in front of tank T1133 Valve seal on V8422 underneath tank T1133 Valve seal on 204-07 behind panel opposite washroom Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1055 Manifold at back and between tanks T1059-T1055 Elec box CB 302-05 behind tanks T1069-T1062 Manifold at back and between tanks T1059-T1055 Elec box CB 302-05 behind tanks T1060-T1062 Manifold at back and between tanks T1059-T1055 Elec box CB 302-05 behind tanks T1060-T1062 Manifold partice tanks T1069-T1062	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 354.78 352.17 354.78355555555555555555555555555555	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 60.00	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 372.17 372.17 294.78 294.78 294.78 294.78	45 46 47 48 49 50 51 52 53 54 55 56 57 57 58 59 60 61 61 62 63 64 65	31 6mm pip 1/2 meter 6mm to blue think top 1/8 85? to 6mm x 8 6mm to 1/4 85? 1/4 85? to 6mm pushfit 1/4 85? to 10mm pushfit Think top valve 3/8 plug 1/4 85? to 10mm pushfit 1/4 85? to 10mm pushfit 1/4 85? to 10mm x 8 1/2 85? to 10mm x 8 1/2 Plug	45 46 47 49 50 51 52 53 54 55 55 56 60 61 62 63 64 65	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd floo	45 46 47 50 51 52 53 55 55 55 55 55 55 55 55 55 60 61 62 63 64 65 66	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-31 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tettar pak cabiner 707 on gauge Inside else box CB302-03 behind tank T1089 Filter bowl on main line in front of tank T1033 Valve seal on V4442 underneath tank T1133 Manifold soc 20-70 behind panel opposite washroom Manifold at back and between tanks T1059-T1055 Manifold at back and between tanks T1059-T1055 Manifold at back and between tanks T1059-T1055 Manifold at back and between tanks T1059-T1052 Manifold at back and between tanks T1059-T1052 Manifold behind tanks between tanks T1062-T1052 Manifold behind tanks between tanks T1062-T1052 Manifold behind tanks between tanks T062-T1052	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78355555555	95.00 96.00 96	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 359.78 437.17 244.78 791.95 472.17 372.17 294.78 294.78 294.78 294.78 294.78 372.17 294.78 372.17 294.78	45 46 47 47 50 51 52 53 55 56 57 58 59 60 61 61 62 63 64 65 65	.311 6mm pip 1/2 meter 6mm to blue think top 1/8 BS7 to 6mm x 8 6mm to 1/4 BSP 6mm to 1/4 BSP 1/4 BS7 to 6mm pushfit 1/4 BS7 to 6mm pushfit 1/8 BS7 to 6mm pushfit 1/8 BS7 to 6mm pushfit 1/8 BSP to 6mm pushfit 1/4 BS9 to 6mm st 8 1/4 BS9 to 6mm elbow x 8 1/2 Plug 1/2 P	45 46 47 48 49 50 51 52 53 53 54 55 56 56 56 60 61 62 63 64 66 66 66	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd floo	45 46 47 47 48 49 50 51 52 55 55 55 55 55 55 60 61 61 62 63 64 65 66 66 67 7	Abover upstains seperator 1 Upstains above seperator 2 on think top valve V212 Else box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tetra pak cabinet 707 on gauge Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1133 Manifold suback and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1057	25 25 25 25 25 25 25 25 25 25 25 25 25 2	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 352.17 354.78 354.77 35	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 95.00 110.00 60.00 60.00 60.00 60.00 60.00 110.00 95.00 110.00 100.00	259.78 377.17 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 477.17 372.17 372.17 294.78 294.78 294.78 294.78 294.78 294.78 294.78	20,127 45 46 47 48 49 50 51 52 53 54 55 56 57 56 57 58 59 60 61 62 63 64 65 66 66 66 67 49	6mm pip 1/2 meter 6mm to blue think top 1/8 85P to 6mm x 8 6mm to 1/4 85P 6mm to 1/4 85P 6mm to 1/4 85P 1/4 85P to 6mm elbow 1/4 85P to 6mm pushfit 7/4 85P to 6mm s0 1/4 85P to 6mm x 8 1/4 85P to 6mm x 8 1/4 85P to 6mm x 8 1/2 85P to 6mm x 8 1/2 Flug 1/2 Plug 1/2 Plug <td>45 46 47 48 50 51 51 52 53 53 54 55 55 55 55 55 55 55 60 61 61 62 63 64 64 66 66 66 66 66 66 66</td> <td>BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS</td>	45 46 47 48 50 51 51 52 53 53 54 55 55 55 55 55 55 55 60 61 61 62 63 64 64 66 66 66 66 66 66 66	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer Zond Tioo Zond Tioo Conti rel Milk process Milk process seperator room Milk process seperator room Second floor creamery Second floor creamery Sec	45 46 47 48 49 50 51 52 53 55 55 55 55 55 55 60 61 62 63 64 64 65 66 66 67 68	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tetra pak cabinet 707 on gauge Inside elec box CB302-30 behind tank T1089 Filler bowl on main line in front of tank T1133 Manifold sock CB302-40 behind panel opposite washroom Valve seal on V4420 underneath tank T1133 Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1055 Manifold at back and between tanks T1059-T1055 Elec box CB 302-05 behind tanks T1069-T1065 Elec box CB 302-05 behind tanks T1069-T1065 Manifold at back and between tanks T1059-T1055 Elec box CB 302-05 behind tanks T1069-T1065 Manifold at back and between tanks T1059-T1055 Vat no1133 pneumatic lipter cylinder Behind gate and behind cheese tanks box 716-10 Behind gate and behind cheese tanks box 716-108 Behind gate and behind cheese tanks box 716-108 Behind gate and behind cheese tanks box 716-108	25.00 25 3.75 25 25 25 25 25 25 25 3.75 5 3.75 5 25 3.75 5 5 3.75 5 5 5 5 5 5 5 5 5 5 5 5 5	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.783555555555555555	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 60.00 60.00 60.00 60.00 60.00 60.00 10.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 10.0	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 372.17 372.17 294.78 294.78 294.78 294.78 372.17 294.78 294.78 372.17 294.78 294.78 372.17 294.78	45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 61 62 63 64 64 65 66 66 67 67 68 69	31 6mm pip 1/2 meter 6mm to blue think top 1/8 85? to 6mm x 8 6mm to 1/4 85? 1/4 85? to 6mm elbow 1/4 85? to 6mm pushfit 1/4 85? to 6mm pushfit 1/4 85? to 6mm nelbow 1/4 85? to 6mm pushfit 1/4 85? to 6mm pushfit 1/4 85? to 6mm nelbow 1/4 85? to 10mm pushfit 1/4 85? to 10mm x 8 1/2 858 to 6mm x 8 1/2 Plug 1/2 Hom pushfit 1/4 85? to 6mm 1/4 85? to 6mm x 2 Think to yaive	45 46 47 50 51 52 53 55 55 55 55 55 60 61 62 63 64 64 65 66 67 66 69	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd floo	45 46 47 47 48 49 55 53 55 55 55 55 55 55 55 55 55 55 55	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-31 underneath tank T213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tettar pak cabiner 707 on gauge Inside elec box CB302-03 behind tank T1089 Eller bowl G0-207 behind panel opposite washroom Manifold at back and between tanks T1035-T1035 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold behind tanks Detween tanks T1055-T1055 Manifold behind tanks to 1074-1082 Manifold behind tanks between tanks T1057-1055 Manifold behind tanks between tanks T1057-1055 Manifold behind tanks between tanks T1057-1055 Manifold behind tanks between tanks T1057-1053 Manifold behind tanks between tanks T1057-1053 Manifold behind tanks between tanks T1057-1058 Behind gate and behind cheese tanks box 716-10A Behind gate and behind these tanks box 716-10A	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 354.77357 357 357 357 357 357 357 357 357 357	95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 95.00 160.00 60.00 60.00 60.00 60.00 160.00 160.00 100.00 110.00 95.00 110.00 100.00	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 359.78 437.17 244.78 791.95 472.17 372.17 294.78 294.78 294.78 294.78 294.78 294.78 294.78 294.78 372.17 294.78 294.78	45 46 47 48 49 50 51 52 53 54 55 56 57 57 58 58 59 60 61 61 62 63 64 65 66 67 68 66 67 68 69 70	311 6mm pip 1/2 meter 6mm to blue think top 1/8 85° to 6mm x 8 6mm to 1/4 85° 1/4 85° to 6mm pushfit 1/2 85° to 6mm elbow 1/4 85° to 6mm elbow x 8 1/2 Plug 1/2 Plug 1/2 Plug 1/2 Plug 1/2 Plug 1/2 Nog 2/1/4 85° to 6mm 1/4 85° to 6mm x 2 Think top valve 1/4 85° to 6mm x 2	45 46 47 50 51 53 53 54 55 56 57 58 56 60 61 62 63 64 66 66 67 66 67 70	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 3nd floo	45 45 47 48 50 51 52 53 55 55 55 55 55 55 55 55 55 55 60 61 62 63 64 66 67 70 71	Abover upstains seperator 1 Upstains above seperator 2 on think top valve V212 Else box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of Take T1089 on manifold between thinktops Behind telstar per mini dominick hunter stainless bowl Underneath tetra pak cabiner 707 on gauge Inside else box CB302-03 behind tank T1089 Filter bowl on main line in front of tank T1133 Manifold oposite office red plug leaking Else box CB302-07 behind panel opposite washroom Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1052 Manifold at back and between tanks T1054-T1059 Vat no113 pneumatic lipter cylinder Behind gate and behind cheese tanks box 716-10 Behind gate and behind cheese tanks box 716-10 Behind gate and behind these tanks box 716-08 Inside gate far wall next to steam pipe valve V9756 Middle foor upper back	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 352.17 354.78 352.17 354.78 354.77357 357 357 3575	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 100.00 60.00 60.00 60.00 100.00 60.00 10	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 254.78 254.78 254.78 254.78 254.78 254.78 254.78 372.17 254.78 372.17 254.78 372.17 254.78 372.17 244.17 244.17	45 46 47 48 49 50 51 52 53 53 54 55 56 57 57 58 60 61 61 62 63 64 65 66 66 67 68 66 67 70 71	6mm pip 1/2 meter 6mm to blue think top 1/8 BSP to 6mm x 8 6mm to 1/4 BSP 6mm to 1/4 BSP 6mm to 1/4 BSP 6mm to 1/4 BSP 1/4 BSP to 6mm elbow 1/4 BSP to 6mm pushfit 7/4 BSP to 6mm s 7/4 BSP to 6mm s 7/2 Big 7/2 Plug 7/4 BSP to 6mm x 2 Think top valve 7/4 BSP to 6mm x 2 7/4 BSP to 6mm x 2 7/4 BSP to 6mm x 1 7/4 BSP to 6mm x 2 7/4 BSP to 6mm x 1 7/2 BSP to 6mm x 2 7/4 BSP to 6mm x 2	45 46 47 48 50 51 51 52 53 53 54 55 55 55 55 55 60 61 62 63 64 66 66 66 66 66 69 70 71	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer Zond Tioo 2nd Tioo 2nd Tioo 2nd Tioo And Tioo 2nd Tioo Conti rel Milk process separator room Second Tioor creamery Second Ti	45 45 46 47 48 49 50 51 52 53 55 55 55 55 55 55 55 55 55 60 1 62 63 64 65 66 67 66 69 70 71 77 72	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar per mini dominick hunter stainless bowl Underneath tetra pak cabine 720 ng auge Inside eleto x CB30-20 behind tank T1089 Filter bowl on main line in front of tank T1133 Manifold at back and between tanks T1035-T1057 Manifold at back and between tanks T1035-T1055 Elec box CB 30-20 behind tanks T1059-T1055 Elec box CB 30-20 behind tanks T1059-T1055 Manifold at back and between tanks T1059-T1055 Manifold at and behind cheese tanks box 716-104 Behind gate and behind cheese tanks box 716-104 Behind gate and behind cheese tanks box 716-104 Middle floor upper back Manifold next to hoist	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.71 354.17 354.17	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 60.00 60.00 60.00 60.00 60.00 60.00 160.00 60.00 10.00 95.00 110.00 95.00 110.00 75.00	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 372.17 372.17 234.78 294.78 294.78 294.78 294.78 372.17 234.78 294.78 294.78 372.17 294.78 294.78 372.17 294.78 294.78 294.78 294.78 294.78 294.78 294.71 295.17 244.17 259.17 244.17 297.17	20,127 45 46 47 48 49 50 51 52 53 54 55 56 57 58 56 60 61 62 63 64 64 65 66 67 68 69 70 71 72	311 6mm pip 1/2 meter 6mm to blue think top 1/8 B5P to 6mm x 8 6mm to 1/4 B5P 6mm to 1/4 B5P 1/4 B5P to 6mm elbow 1/4 B5P to 6mm pushfit 1/4 B5P to 6mm klow 1/2 B10g 1/2 Plug 1/2 Plug 1/2 Plug 1/2 H35P to 6mm klow x 8 1/2 B10 form pushfit 1/4 B5P to 6mm x 1/4 B5P to 6mm 1/4 B5P to 6mm x 2 Think top walve 1/4 B5P to 6mm x 2 1/2 B10 form x 2 Think top walve 1/4 B5P to 10mm pushfit 1/2 B5P to 10mm pushfit	45 46 47 48 50 51 52 53 53 54 55 55 55 60 61 61 62 63 64 64 65 66 67 68 970 70 71 72	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd floo	45 46 47 48 49 50 52 53 55 56 60 61 62 63 66 66 62 63 66 66 67 67 67 77 77 77 77 77	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-31 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tettar pak cabiner 707 on gauge Inside elec box CB302-03 behind tank T1089 Filter bowl on main line in front of tank T1033 Manifold stoak and between tanks T1033- T1037 Manifold at back and between tanks T1035-T1055 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold behind tanks between tanks T1055-T1055 Manifold at back and between tanks T1054-T1052 Elec box CB30-205 behind tanks T1063-T1052 Manifold at back and between tanks T1054-T1052 Manifold at and behind cheese tanks box 716-104 Behind gate and behind cheese tanks box 716-104 Behind gate and behind theese tanks box 716-104 Behind gate and behind theese tanks box 716-104 Behind gate and behind theese tanks box 716-048 Inside gate far wall next to steam pipe valve V9756 Middle floor upper back Manifold next to holst Elec box CB30-25	25.00 25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.77 354.77357 357 357 357 357 357	95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 10.00 95.00 10.00 60.00 60.00 60.00 60.00 60.00 10.00 10.00 95.00 10	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 375.78 259.78 437.17 244.78 791.95 472.17 372.17 294.78 294.78 294.78 294.78 372.17 294.78 372.17 294.78 372.17 294.78 372.17 294.78 372.17 294.78 372.17 294.78	45 46 47 47 50 51 52 53 55 56 57 58 55 60 61 61 62 63 64 65 66 66 67 68 66 67 70 71 72 73	311 6mm pip 1/2 meter 6mm to blue think top 1/8 B5? to 6mm x 8 6mm to 1/4 B5P 1/4 B5P to 6mm pushfit 1/2 B5P to 6mm elbow 1/4 B5P to 6mm elbow 1/4 B5P to 6mm elbow 1/4 B5P to 6mm elbow 1/2 B1/2 1/2 B5P to 6mm elbow x 8 1/2 Plug 1/2 B5P to 6mm x 2 Think top valve 1/4 B5P to 6mm x 2 Think top val	45 46 47 50 51 53 53 54 55 56 57 58 56 60 61 62 63 64 65 66 66 66 67 70 70 71 72 73	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 3nd flooi 8econd floor creamery Second floor creamery Seco	45 46 47 50 53 55 55 55 55 55 55 55 55 55 55 55 60 61 62 63 64 66 66 67 70 71 72 73 73 73 74 74	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Piter bowl on main line in front of tank T133 Filter bowl on main line in front of tank T133 Manifold oposite office red plug leaking Elec box CB30-47 behind panel opposite washroom Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1052 Manifold at back and between tanks T1059-T1052 Manifold behind tanks 11069-T1059 Vat no1139 neumatic lipter cylinder Behind gate and behind cheese tanks box 716-10 Behind gate and behind cheese tanks box 716-10 Behind gate and behind cheese tanks box 716-08 Inside gate far wall next to steam pipe valve V9736 Middle floor upper back Manifold next to hoist Elec box CB30-255 Manifold between fruit vids	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 352.17 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.17 35	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 160.00 60.00 60.00 60.00 60.00 160.00 60.00 100.	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 294.78 294.78 294.78 294.78 372.17 294.78 372.17 294.78 372.17 294.78 372.17 294.78 372.17 294.78 372.17 294.78	20,127 45 46 47 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67 68 66 67 70 71 72 73 74	6mm pip 1/2 meter 6mm to blue think top 1/8 BSP to 6mm x 8 6mm to 1/4 BSP 1/4 BSP to 6mm elbow 1/4 BSP to 6mm pushfit 7/4 BSP to 6mm pushfit 7/4 BSP to 6mm pushfit 7/4 BSP to 6mm pushfit 1/4 BSP to 6mm s 7/4 BSP to 6mm elbow 1/4 BSP to 6mm elbow x 8 1/2 Flug 1/2 BSP to 6mm X 2 Think top valve	45 46 47 48 50 51 52 55 53 54 55 55 55 55 55 60 61 62 63 64 65 66 66 66 66 66 66 69 70 71 72 73 73 74	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer Zond Tioo 2nd Tioo 2nd Tioo 2nd Tioo And Tioo 2nd Tioo Conti rel Milk process separator room Second floor creamery Second fl	45 45 46 47 48 49 50 51 52 53 55 55 55 55 55 55 55 55 55 55 55 55	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-11 underneath tank T1213 Pig launch manifold filler 5 To right of Takk T1089 on manifold between thinktops Behind telstar per mini dominich hunter stainless bowl Underneath tetra pak cabinet 207 on gauge Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1089 Filter bowl on main line in front of tank T1089 Manifold aback and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1055 Elec box CB 302-05 behind tanks T1069-T1062 Manifold at back and between tanks T1059-T1055 Behind gate and behind cheese tanks box 716-10 Behind gate and behind these tanks box 716-80 Find gate gate back Manifold	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.77 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 60.00 60.00 60.00 60.00 60.00 60.00 100.00 110.00 95.00 110.00 75.00 110.00 75.00 140.00 60.00 60.00 10.00 75.00 140.00 60.00 60.00 60.00 10.00 75.00 10.00 75.00 10.00 75.00 10.00 1	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 372.17 372.17 254.78 294.78 294.78 294.78 372.17 294.78 294.78 294.78 294.78 294.78 244.17 259.17 244.17 259.17 244.17 279.17 244.17 294.17 294.17	20,127 45 46 47 48 49 50 51 52 53 54 55 56 57 58 56 60 61 62 63 64 64 65 66 67 68 66 67 68 69 70 71 72 73 74	311 6mm pip 1/2 meter 6mm to blue think top 1/8 B5P to 6mm x 8 6mm to 1/4 B5P 6mm to 1/4 B5P 1/4 B5P to 6mm elbow 1/4 B5P to 6mm pushfit 1/4 B5P to 6mm klow 1/4 B5P to 6mm x 8 1/2 Plug 1/2 Plug 1/2 Plug 1/2 Plug 1/2 B5P to 6mm x 1 1/4 B5P to 6mm x 2 1/4 B5P to 6mm x 2 1/4 B5P to 6mm x 2 1/4 B5P to 6mm x 4 1/4 B5P to 6mm x 4 1/4 B5P to 10mm pushfit 1/4 B5P to 10mm pushfit 1/4 B5P to 10mm pushfit 1/2 B5P to 10mm pushfit 1/4 B5P to 10mm pushfit 1/4 B5P to 10mm pushfit 1/4 B5P for m x 4 Plugs 1/4 B5P 1/4 B5P for m x 4 Plugs 1/4 B5P 1/4 B5P	45 46 47 48 50 51 52 53 54 55 55 55 55 60 61 61 62 63 66 66 66 67 66 69 70 71 71 72 73 73 73 73	BCAS BCAS Customer BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd flooi 3nd floo reamery Second floor creamery Second floor creame	45 46 47 51 52 53 55 56 55 55 56 61 62 63 64 63 64 65 66 66 67 70 77 77 73 74 75 77 77 77 77 77	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-31 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tettar pak cabiner 707 on gauge Inside elec box CB302-03 behind tank T1089 Elec box CB 302-07 behind panel opposite washroom Manifold at back and between tanks T1035-T1035 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold behind tanks 1T060-T1052 Wat n0113p neumatic lipter (yinder Behind gate and behind cheese tanks box 716-10 Behind gate and behind cheese tanks box 716-10A Behind gate and behind these tanks bo	25.00 25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.71 354.17 35	95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 10.00 95.00 10.00 60.00 60.00 60.00 60.00 10.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 95.00 110.00 95.00 9	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 244.78 294.78 294.78 294.78 294.78 372.17 294.78 294.78 294.78 294.17 295.17 294.17 295.17 294.17 295.17 205.10	20,127 45 46 47 47 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 77	311 6mm pip 1/2 meter 6mm to blue think top 1/8 B5* to 6mm x 8 6mm to 1/4 B5P 1/4 B5* to 6mm pushfit 1/4 B5P to 6mm pushfit 1/4 B5P to 6mm pushfit 1/4 B5P to 10mm pushfit 1/4 B5P to 10mm pushfit 1/4 B5P to 10mm pushfit 1/2 B10g 1/2 Plug 1/4 B5P to 6mm x 2 Think top valve 1/4 B5P to 6mm x 4 Plugs 1/4 B5P Plugs 1/4 B5P 1/4 B5P to 6mm x 4 Plugs 1/4 B5P	45 46 47 48 50 51 53 53 54 55 56 57 58 56 60 61 62 63 64 65 66 66 66 67 70 71 71 72 73 73 74 75 77 77	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 3nd floo	41.4 45 46 47 50 52 53 54 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 55 57 57	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-11 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pitter bowl on main line in front of tank T133 Filter bowl on main line in front of tank T133 Manifold oposite office red plug leaking Elec box CB302-07 behind panel opposite washroom Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1052 Manifold at back and between tanks T1059-T1052 Manifold behind tanks T1069-T1052 Manifold filter opper back Manifold me door Manifold next to hoist Elec box CB30-25 Manifold between fruit vats Manifold between fruit vats Manifold on back wall next to activator Outside in front of tanks at 40bar Outside in front of tanks at 40bar	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 352.17 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.17 35	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 160.00 60.00 60.00 60.00 60.00 100	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 244.78 791.95 472.17 294.78 295.17 295.17 295.17 295.17 295.17 295.17 295.17	20,127 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 76 76 77 78	6mm pip 1/2 meter 6mm to blue think top 1/8 BSP to 6mm x 8 6mm to 1/4 BSP 1/4 BSP to 6mm elbow 1/4 BSP to 6mm pushfit Plug re-seal 1/4 BSP to 6mm pushfit 1/8 BSP to 6mm elbow 1/4 BSP to 6mm pushfit 1/8 BSP to 6mm s 1/8 BSP to 6mm s 1/2 Flug 1/2 BSP 1/4 BSP to 6mm x 2 1/4 BSP to 6mm x 4 1/4 BSP 1/4 BSP 1/4 BSP 1/4 BSP	45 46 47 48 50 51 52 55 53 54 55 55 55 55 55 55 60 61 62 63 64 65 66 66 66 66 66 67 70 77 73 74 75 75 77 77	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer Zond Tioo 2nd Tioo Milk process seperator room Second floor creamery Second floor creamery	45 45 46 47 48 48 50 51 52 53 53 55 55 55 55 55 55 55 55 55 55 55	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-11 underneath tank T1213 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tetra pak cabinet 707 on gauge Filter bowl on main fline in front of tank T1089 Filter bowl on main fline in front of tank T1089 Filter bowl on main line in front of tank T1089 Filter bowl on main fline in front of tank T1089 Filter bowl on main fline in front of tank T1089 Filter bowl on main fline in front of tank T1089 Filter bowl on main fline in front of tank T1089 Filter bowl on main fline in front of tank T1089 Filter bowl on tank T1	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 352.17 354.78 352.17 354.78 352.17 354.78 353.17 354.78 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17 354.17	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 60.00 60.00 60.00 60.00 60.00 60.00 100.00 100.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 100.0	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 437.17 244.78 791.95 472.17 372.17 254.78 294.78 294.78 294.78 294.78 294.78 294.78 294.78 294.78 294.78 294.77 294.17 295.17 294.17 295.17 295.17 295.17 259.17	20,127 45 46 47 48 49 50 51 52 53 54 55 56 57 56 57 58 59 60 61 62 63 64 64 65 66 67 68 69 70 71 72 73 74 77 79	31 6mm pip 1/2 meter 6mm to blue think top 1/8 55* to 6mm x 8 6mm to 1/4 85* 6mm to 1/4 85* 1/4 85* to 6mm pushfit 1/4 85* to 6mm second 1/4 85* to 6mm pushfit 1/4 85* to 6mm x 6 1/4 85* to 6mm x 7 1/4 85* to 6mm x 7 1/4 85* to 6mm pushfit 1/4 85* to 6mm x 1/4 1/2 Flug 1/4 Flug 1/4 Flug 1/4 Flug 1/4 Flug 1/4 Flug 1/4	45 46 47 48 50 51 52 53 54 55 55 55 55 55 55 55 60 61 62 63 64 66 66 67 66 67 68 69 70 71 72 73 73 73 77 77 79	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 2nd flooi 3nd floo	45 46 47 51 52 53 55 55 55 55 55 55 55 55 66 61 62 63 64 65 66 66 67 70 71 72 73 73 74 75 77 77 78 80	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Elec box CB302-31 underneath tank T1213 Pig launch manifold filler 5 Pig launch manifold filler 5 Pig launch manifold filler 5 To right of tank T1089 on manifold between thinktops Behind telstar pcr mini dominick hunter stainless bowl Underneath tettar pak cabine 707 on gauge Inside elec box CB302-03 behind tank T1089 Filter bowl on main line in front of tank T1033 Valve seal on V9442 underneath tank T1133 Manifold oposite office red plug leaking Elec box CB 302-07 behind panel opposite washroom Manifold at back and between tanks T1035-T1055 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold at back and between tanks T1055-T1055 Manifold behind tanks Detween tanks T1055-T1055 Manifold behind tanks between tanks T1055-T1052 Manifold at back and between tanks T1055-T1055 Manifold behind tanks between tanks T1054-T1052 Elec box CB 302-05 behind tanks T1063-T1052 Manifold behind tanks between tanks T1054-T1052 Behind gate and behind cheese tanks box 716-104 Behind gate and behind cheese tanks box 716-104 Behind gate and behind tanks tates to x716-062 Inside gate far wall next to steam pipe valve V9756 Middle filtor upger back Manifold next to holst Elec box CB 303-25 Manifold between fit vats Manifold next well next to activator Outside in front of tanks at 40bar Outside in front of tanks at 40bar Outside in front of tanks at 40bar Outside in front of tanks at 40bar Not Deko drain on inlet of dryer 4 Not Deko drain on linet of dryer 4 Not Deko drain on linet of dryer 4 Not Deko drain on linet of dryer 4	25.00 25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.17 35	95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 10.00 95.00 10.00 60.00 60.00 60.00 60.00 60.00 10.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 95.00 110.00 110.00 110.00 110.00 110.00 110.00 110.00 10.	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 244.78 294.78 294.78 294.78 294.78 294.78 372.17 295.17 295.17 295.17 295.17 295.17 325.78 144.17 295.17 322.78 344.17 255.17 324.17 324.17 255.17 32.78 344.17 255.17 32.44.17 255.17 32.44.17 255.17 32.44.17 255.17 32.44.17 34	20,127 45 46 47 48 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 66 67 70 71 72 73 74 75 76 80 80 80 80 80 80 80 80 80 80	311 6mm to blue think top 128 85° to 6mm x 8 6mm to 1/4 85° 6mm to 1/4 85° 1/4 85° to 6mm pushfit 1/2 85° to 6mm x 8 1/2 Plug 1/4 85° to 6mm ± Think top valve 1/4 85° to 6mm × 2 Think top valve 1/4 85° 1/4 85° 1/2 85° 1/4 85° 1/4 85° 1/4 85°	45 46 47 48 50 51 52 53 54 55 56 58 58 56 60 61 62 63 66 66 66 66 67 68 69 70 71 71 72 73 74 75 76 77 77 78 80	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS
Creamer 2nd flooi 2nd flooi 3nd flooi 3nd flooi 3nd flooi 3nd flooi 2second floor creamery Second	41.4 45 46 47 50 53 53 54 55 55 55 55 55 55 55 55 55	Abover upstairs seperator 1 Upstairs above seperator 2 on think top valve V212 Else box CB302-11 underneath tank T1213 Pig launch manifold filler 5 To right of Tak T1089 on manifold between thinktops Behind telstar per mini dominick hunter stainless bowl Underneath tetra pak cabiner 707 on gauge Inside else box CB302-03 behind tank T1089 Filter bowl on main line in front of tank T1133 Manifold oposite office red plug leaking Elec box CB 302-07 behind panel opposite washroom Manifold at back and between tanks T1059-T1057 Manifold at back and between tanks T1059-T1055 Manifold at back and between tanks T1059-T1052 Manifold at back and between tanks T1059-T1052 Manifold behind tanks between tanks T1061-T1059 Vat no1113 pneumatic lipter cylinder Behind gate and behind cheese tanks box 716-80 Inside gate far wall next to steam pipe valve V9756 Middle filoor upper back Manifold next to hoist Else box CB30-25 Manifold on back wall next to activator Outside in front of tanks at 40bar Outside in front of tanks at 40bar Not1 beko drain on initet of dryer 1 On Donaidson filter bowl above Atlas Copto On filter bowl above Atlas Copto	25.00 25 25 25 25 25 25 25 25 25 25	354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 352.17 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.78 354.17 35	95.00 160.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 110.00 160.00 60.00 60.00 60.00 60.00 60.00 100.0	259.78 372.17 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 259.78 244.78 791.95 472.17 254.78 254.78 254.78 254.78 254.78 254.78 254.78 254.17 259.17	20,127 45 46 47 50 51 52 53 54 55 55 56 57 58 59 60 61 61 62 63 64 65 66 66 67 70 70 71 72 75 76 77 78 80 81	6mm pip 1/2 meter 6mm to blue think top 1/8 BSP to 6mm x 8 6mm to 1/4 BSP 1/4 BSP to 6mm elbow 1/4 BSP to 6mm elbow 1/4 BSP to 6mm elbow 1/4 BSP to 6mm pushfit Plug re-seal 1/4 BSP to 6mm pushfit 1/4 BSP to 6mm pushfit 1/2 BSP to 6mm elbow 1/4 BSP to 6mm elbow 1/4 BSP to 6mm elbow x 8 1/2 Plug 1/2 Pl	45 46 47 48 50 51 53 53 54 55 55 55 55 55 55 55 60 61 62 63 64 66 66 66 66 66 66 66 67 70 77 73 74 75 76 76 77 78 80	BCAS Customer BCAS BCAS BCAS BCAS BCAS BCAS BCAS BCAS

This data forms part of a leak detection report and is presented alongside a list of recommended works and repair costs.

7,715.00

20,127.31

33,341.40

Once the works have been completed, the system is logged once again, to measure performance and to verify the savings made.

Holistic approach

With energy prices currently increasing exponentially, the return on investment of a one-off leak detection audit and repair service have never been greater. In fact, we recommend that you have an ongoing programme in place in order to continually optimise the energy efficiency of your compressed air system. However, there are additional measures that can be taken to reduce your energy costs and which should be included in your overall energy efficiency plan.

At BCAS, we recognise the importance of taking a holistic approach to the efficiency of a compressed air system. We recommend a range of checks and measures that will all contribute towards reducing your energy consumption and costs.

Specialists

Our Energy Efficiency services are heading up by our inhouse specialist engineer, Des Fuller, can advise on all aspects of energy efficiency in compressed air and can tailor the services that will have the most impact for your specific system set-up.

Resources

Further information on how you can reduce the running costs of your compressor equipment can be found in our Guide to Energy Efficiency in compressed air.

To find out more about Air Leak Detection Audits or to receive a copy of our Energy Efficiency Guide, contact BCAS:

sales@bcaslimited.co.uk 01491 821737 www.bcaslimited.co.uk



BCAS Compressed Air Services

Detect – Repair - Save

Air Leak Detection Audit

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