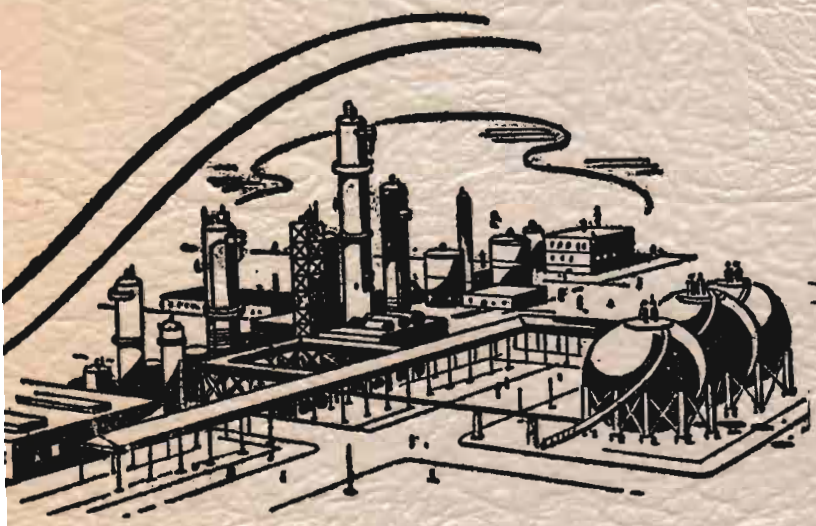


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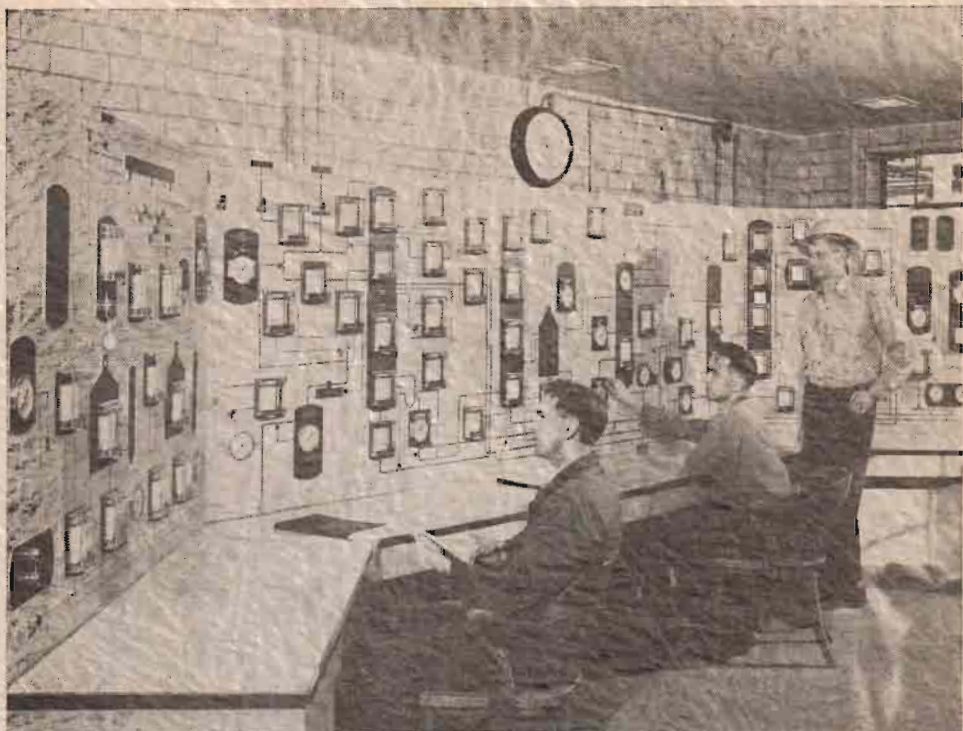
INSTRUMENT
SOCIETY of
AMERICA



SARNIA SECTION



Monthly Bulletin



WIDE-SCREEN PRESENTATION OF PETRO-CHEMICAL PLANT

by *Taylor*

Taylor Graphic Panels, contributing close supervisory control in the Petroleum Industry, are also serving in the Petro-Chemical field. Photographed above, for example, is the Taylor Panel at CIL'S Polythene Plant at Edmonton, Alberta.

The instrumentation here is served by Taylor Controls and Transmitters throughout the extensive intricate plant operation.

Taylor produces instruments for indicating, recording and controlling temperature, pressure, flow, liquid-level, speed, density and humidity.

Taylor Instrument Companies of Canada Limited, P. O. Box 87, Station D. Toronto 9, Ontario. Branches Montreal, Winnipeg, Calgary, Vancouver.

TAYLOR INSTRUMENTS MEAN ACCURACY FIRST



The Instrument Society of America

SARNIA SECTION

has as its objective the advancement of the arts and sciences associated with the theory, design, and use of measuring and control instruments in the various industries in the Sarnia area.

The immediate benefits derived by the Sarnia members include a monthly meeting at which a qualified speaker discusses an instrument subject after which members fraternize with other instrument men and interchange ideas and news at a social hour, a subscription to the "I.S.A. JOURNAL", a subscription to the Sarnia Section "BULLETIN", access to all technical data, servicing techniques and standardization policies developed by the National Committees of the ISA and an annual school for mechanics and technicians.

As a member of the National body of the Instrument Society of America, a rapidly growing and influential technical society, the member partakes indirectly in the progress of instrumentation made possible by the work of the various National Committees.

Executive Officers for the 1956-57 season are:

President	H. KOHLMEIER Polymer Corp. Ltd.
Vice-President	R. ASSELTINE Canadian Oil Refineries Ltd.
Secretary	F. CROFT Catalytic Construction Co.
Treasurer	R. ROSE Catalytic Construction Co.

Meetings are held on the fourth Monday of each month from September to May inclusive at 8.00 P.M. The meetings are held at the Vendome Hotel unless otherwise announced.

Anyone earning his livelihood through the manufacture or use of instruments and who is acceptable to the executive body may become a member of the Sarnia Section, I.S.A. Dues are \$12.00 per annum. Associate Members are those who are associated with instruments but who do not earn their livelihood directly from them, such as stationary engineers, process operators, etc. Their dues are \$7.50 per annum.

Correspondence relating to the general activities of the Sarnia Section should be addressed to the Secretary, Mr. F. Croft, 612 St. Clair Ave., Pt. Edward, Ont. Dues should be made payable to the Sarnia Section, Instrument Society of America and sent to the Treasurer, Mr. R. J. Rose, 675 Woodhaven, Sarnia, Ont.

Correspondence concerning programs should be sent to the Program Chairman Mr. G. M. Hicks, 280 St. Vincent St., Sarnia, Ont.

Copy for "THE BULLETIN" should be sent to the Managing Editor, Mr. H. Hobbs, 122 Cameron Street, Sarnia, Ontario.

PRECISION INSTRUMENTS AND CONTROLS



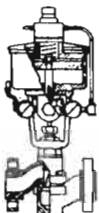
BARTON

BARTON DP FLOW-METERS—with stainless steel, rupture-proof bellows. Indicators, recorders and pneumatic transmitters are available (electric contacts optional).



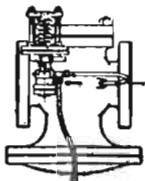
ALNOR

ALNOR INSTRUMENTS—for measuring surface and furnace temperatures—Alnor Velometers for air speed — Alnor Dewpointers — multi-circuit electrical thermometers.



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CONOFLOW CONTROL VALVES—with powerful pneumatic motors. Also Butterfly, Saunders and Pulp Stock valves for throttling control. Instrument air differential and filter regulators.



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SPENCE STEAM REGULATORS — Packless, non-wiredrawing, self-contained pressure, temperature, and back pressure regulators. Pump governors, desuperheaters and differential regulators.



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11. Instruments to ASTM specifications
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13. Flame failure indicators
14. Turbidity meters.

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Company

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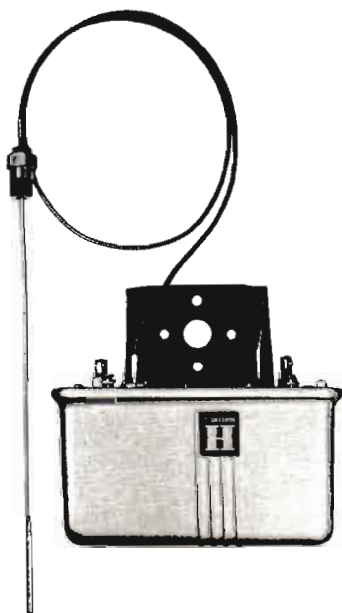
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Range limits are — 375 to + 1,000 F, and 40 to 600 psi. A simple adjustment allows you to set the span limits of 20 psi and 50 F minimum, and 150 psi and 400 F maximum. Zero output can easily be adjusted to allow this span to cover any desired portion of the overall transmitter range.

For more information about this and other controls contact your nearest HONEYWELL Branch Office, or write HONEYWELL, Leaside, Toronto 17, Ontario.

Honeywell

Industrial Division



Brown Instruments



12A Temperature Transmitter



M/42 Indicating Pneumatic Transmitter



13A Differential Pressure (d/p) Cell



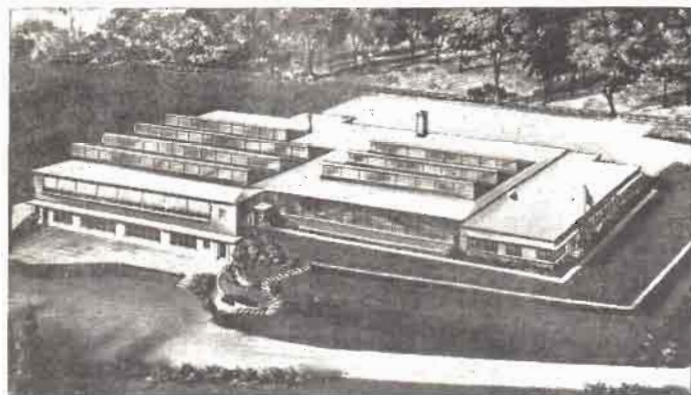
M/40 Recording Controller

PROCESS MEASUREMENT AND CONTROL

Complete process measurement and control instrumentation covering such variables as temperature, pressure, flow, liquid level, humidity, pH, conductivity, density, dew point, viscosity, force, speed, position, etc. etc. Instrument designs to suit conventional or graphic type panels — controllers for board or local mounting.

This complete line of Canadian made Foxboro instruments, combined with the wide application knowledge and engineering experience of Peacock Brothers Limited, guarantees the best instrumentation for almost any process.

Pictured below is the Canadian home of Foxboro instruments — Canada's largest and most up-to-date process instrument manufacturing plant.



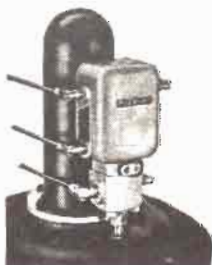
M/52 Consotrol Indicating Controller



M/53 Consotrol Recording Station



M/58 Consotrol Controller



M/59 Consotrol Valve Mounted Controller



PEACOCK BROTHERS LIMITED

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The "BULLETIN"

VOLUME 6 No. 8.

APRIL 1957

MARCH MEETING

Our regular meeting was held the evening of March 25th, at the Vendome Hotel.

Our speaker for the evening was Mr. Robert Silva, of Foxboro, who was introduced by Mike Hicks of Polymer.

Mr. Silva devotes part of his time to lecturing on Instrumentation at University, and judging by the interesting and thorough manner in which he spoke to us, his students cannot help but benefit from his efforts.

His talk to us included some discussion of the theory of flow and the equations relevant thereto.

The remainder of the time was devoted to some of Foxboro's latest developments which include d. p. cells adapted to measure extremely small flows, and their very impressive magnetic flow meter which does not need a primary measuring device. Unfortunately for most local uses, the flowing fluid must not have a high electrical resistance. This rules out nearly all hydrocarbon materials.

The thirty members and friends who were present kept Mr. Silva busy answering their questions. Thanks to his comprehensive knowledge and clever footwork he was never any where near becoming trapped.

We are indebted to Mr. Silva and Foxboro for their courtesy and hope that a return engagement can be arranged.

★ ★ ★

NEXT YEAR'S EXECUTIVE

The following very capable people have responded to the wooing of Bob Connell and his nominating committee and will take office for 1957-58 at the May meeting.

President — Ron Asselstine, Canadian Oil

Vice-President — Mike Hicks, Polymer

Secretary — D. Vetter, Catalytic

Treasurer — G. Westerburg, I. O. L.

NEWS ITEM

Our friend, Fred Croft has a letter from some enterprising souls out in California. They read the Bulletin, which dealt with the steam tracing problem and although it puzzles me how Californians can set themselves up as experts in this matter I am properly grateful for their consideration. They include with their letter a sympathetic and perhaps useful brochure. It seems that they manufacture some type of heat-conducting material which, when liberally coated on a valve body is said to make one loop of copper tubing as good as a steam jacket.

Very good indeed, friends, we appreciate your kindly intentions and would name your product here and now, if it were not for our strong sense of fair play to our own advertisers.

The thought does occur though, that a material which spreads heat around may equally well let the cold come in, so what happens when a trap fails during a high wind.

**INSTRUMENTS ARE MY LINE**

By E. W. Kirk

This month I would like to discuss a phase of our trade which is not thought much about — that is scales.

In our plant where a lot of process is of the batch type, each batch or mixture is made up before hand. The usual system used is by weight. So we have scales weighing out materials in lbs. and tons. Since the engineers rely on the scales giving accurate weight, someone must service and calibrate these often.

Our department has such a man. He services, repairs and checks well over a hundred scales, small and large. I asked him how he checks the calibration and he explained that you have to check the scales against a known weight. Normally these weights are 50 lbs. each. Immediately I mentally calculated that if he were checking a 3000 lb. scale, he would need sixty 50 lb. weights in order to get full scale travel. Since this fellow

wasn't built like Charles Atlas, I asked him how he managed to lift on and off so many weights during the calibration period.

First off, he told me it depended on what type of scale you were calibrating. If it had a tank on it, you placed four 50 lb. weights on the empty tank. The scale should read 200 lb. Then take off the weights and fill the drum with water until it reads 200 lbs. Then put the 4 weights back on and check the 400 lb. spot. You keep doing this until full scale reading is reached. He only needed to take 4 weights with him to do the job. If the scale didn't have a tank, he made up several 400 lb. blocks of steel. He uses a cart, similar to those used to carry bags of grain, to lift these weights on and off his scale. He says this is alright, except where the scale is not mounted flush with the floor. I asked him how did he know the blocks of steel were exactly 400 lbs. Why, he said, I used the regular weights on one side of a balance scale and the steel on the other. He kept chipping away on the large blocks until they were right on.

Perhaps you think our scale man is lazy, but I think he uses his head instead of his back, because he sure keeps our scales in tip top condition and he does all his work alone.

IMPORTANT NOTICE

SARNIA SECTION I. S. A.

Annual Dinner Meeting

PLACE GUILDWOOD INN — PT. EDWARD, ONTARIO

DATE FRIDAY, MAY 3rd, 1957

TIME 7 P.M. DINNER (The Bar opens at 6.)

SPEAKER NONE WHATEVER.

The TICKETS are heavily subsidized for members at \$2.00. Non-members are still getting a good bargain because this includes **one** (1) free drink, with the superb meal, and everyone will share in the draw for the splendid **door prizes** presented by our friends, 18 (count them) 18 instrument vendors.—(everyone guaranteed a prize.)

Get your tickets early from any executive members, or your company representative.

Members \$2.00

Others \$3.50

MEETING NOTICE

PLACE: VENDOME HOTEL

DATE: 22nd APRIL, 1957

TIME: 8.00 P.M.

SPEAKER: SEVERAL CAREFULLY SELECTED MEMBERS OF OUR SECTION WHO WILL ANNOUNCE THEIR OWN TOPICS AND INVITE COMMENT, DEBATE, AND CRITICISM FROM ALL.

SUBJECT: **LET US CALL IT "GADGETEERING"**

NOTE: This meeting will be a good one, so come and get informed on a lot of trouble-shooting ideas. We will pry little known secrets from heretofore close-mouthed individuals.

WRITTEN ON A ROLL CHART
I'll Huff and I'll Puff

Ages ago, I learned in school,
That a meat packing man was nobody's fool.
He hacked each pig with vigour and vim,
And wasted never a part of him,
From snort to tail, from bone to gristle,
And even the scanty useful bristle, ,
And to help the profit on every deal
He rather cleverly bottled the squeal.
Now this same man must flush with pride,
And, looking at his record, feel warm inside,
Though the warmth may die to a feeble glow,
If he studies the methods of some men we know.
Their frugal methods are a sterner sort,
That make the pig man's look like sport,
They make him look like an honest square,
When they cleverly sell what isn't there,
They feel both ethical and fine,
When they pump their trash through a propane line,
They laugh and fail to face the facts,
When we talk of sulphur, clay or wax,
They nod and grin a friendly grin,
When we bewail the shape we're in,
They smile and send their bill again,
As though it really were propane.
Our lines are plugged, our valves won't move,
Our meters follow a frozen groove,
Our screens are full, and every tank
Is blocked with a waxish, clayish blank.
Our pumps will turn, but little use,

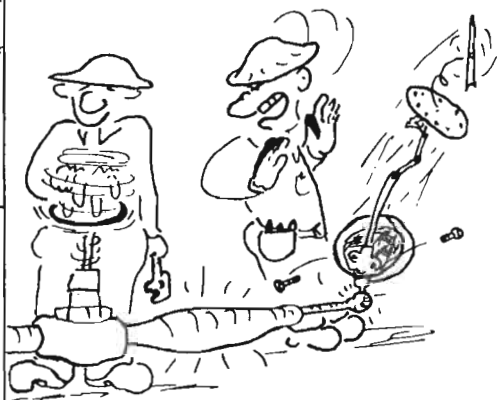
They fail to spout the proper juice.
And sadder still grows every hour.
And lower do the storm-clouds glower,
For the goo moves on both sure and slow,
Like a seething, deadly, lava-flow.
And wickedly enters and starts to fill,
The trays and spouts of our final still
The still, and I'm smiling thru my tears,
We've ran untouched for several years,
And might have ran for many more
Had not this propane been so poor.
Our hats are off, our heads are bowed,
The pig man slinks into the crowd,
His laurels gone, his medals dim,
And conscious how they've beaten him.
He'd be the first one to admit,
His record fails by quite a bit,
And the line is rather hard to see
Where thrift divides from robbery.

Good friends, I have but one proposal,
Look elsewhere for garbage-disposal.

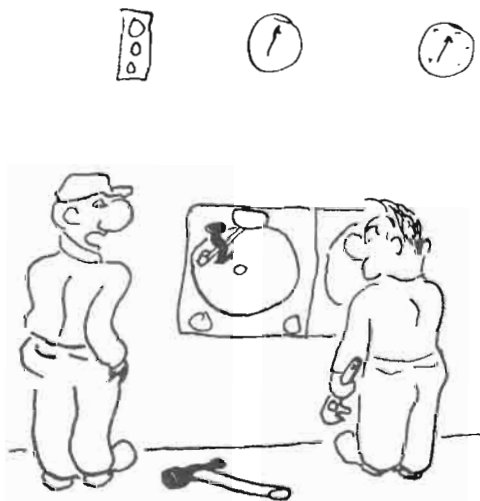
—H. Hobbs



THOSE? THEY'RE PIECES OF TUBING HE FORGOT TO PUT A FLARE NUT ON BEFORE FLARING.



IS THAT WHAT YOU CALL CRACKING THE STEAM IN GENTLY?



WELL I SEE THAT INSTRUMENT MECHANIC FINALLY GOT A FLOW TO SHOW ON THE METER

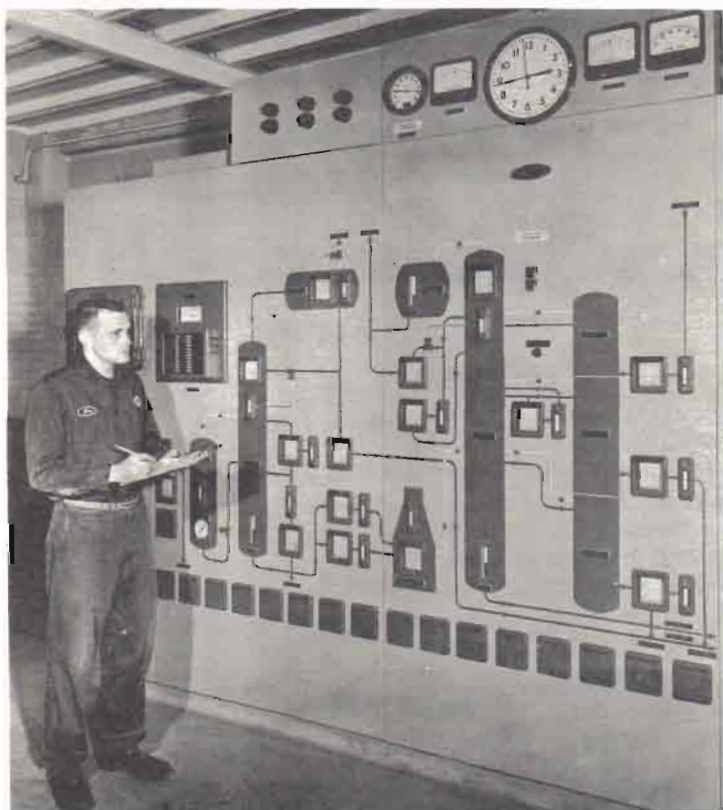


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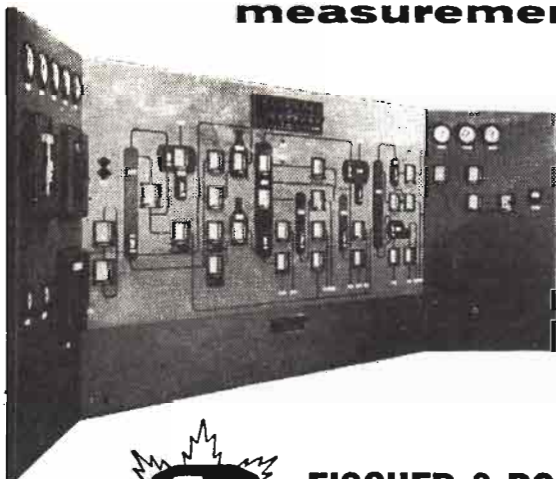
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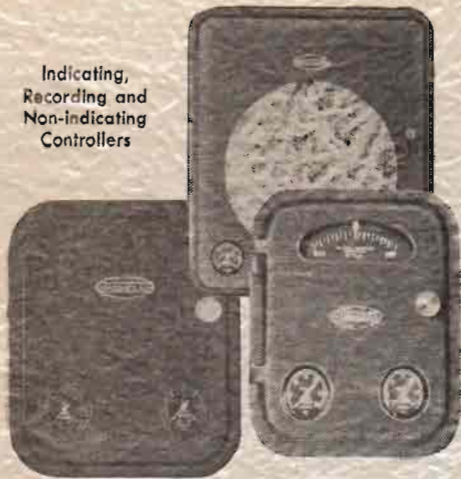
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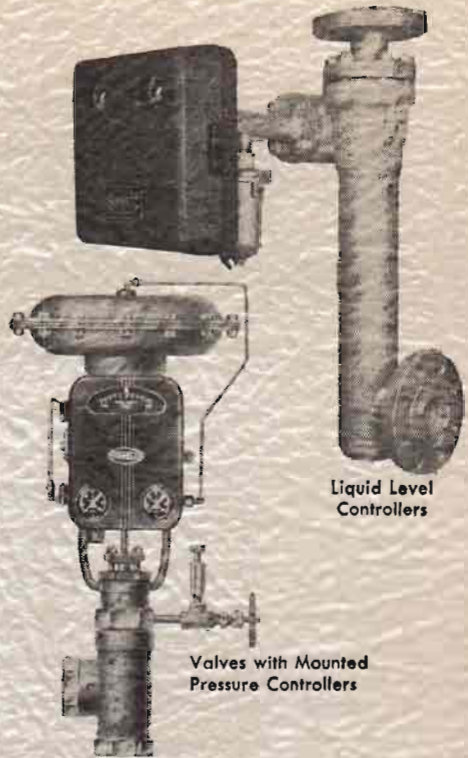
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