

HIDALGO CHEMICAL COMPANY
BROWNSVILLE CHEMICAL PLANT
BROWNSVILLE, TEXAS

DATA BOOK
SECTION 600-800
VOLUME II

THE LUMMUS COMPANY
HOUSTON - NEW YORK
JOB 3590



DE 006802

PLAINTIFF'S EXHIBIT

UC-P-66

THE LUMMUS COMPANY
METER RUN DATA SHEET

SERVICE SEE BELOW

CODE 0

REF. _____

SHEET 2 OF 2

FOR STANOLIND OIL AND GAS COMPANY
LOCATION BROWNSVILLE, TEXAS

1-3" Meter run in accordance with the AGA standard (Report #2) and the following detail specifications:

PIPE: 3" Sch. 40, buttwelded ASTMA-53 Gr. A

FLANGES: 3" 300# RF Steel ASTMA-181 GR. 1 Orifice Flanges.

PLATE: 1/8" S.S. Bored to 2.418" handle type, stamped with 1/8" letters on upstream side of handle giving bore, TAG number and line size.

GASKETS: 2 - 1/16" compressed asbestos, JM-60 or equal.

BOLTS: Steel ASTM-A-307

METER RUN: Upstream length from upstream face of plate to be 3'-0"

Downstream length from upstream face of plate to be 1'-3"

Both ends of pipe shall be beveled for welding.

Line number shall be stenciled on pipe in 1" or larger letters.

Line Number: CC-600-CC

FLOW CONDITIONS:

FLUID: Condensate

TEMPERATURE: 160°F

PRESSURE: 50 PSIG

g/d RATIO: 0.700

TAG: EE-1601

SERVICE: Condensate to Storage

REMARKS:

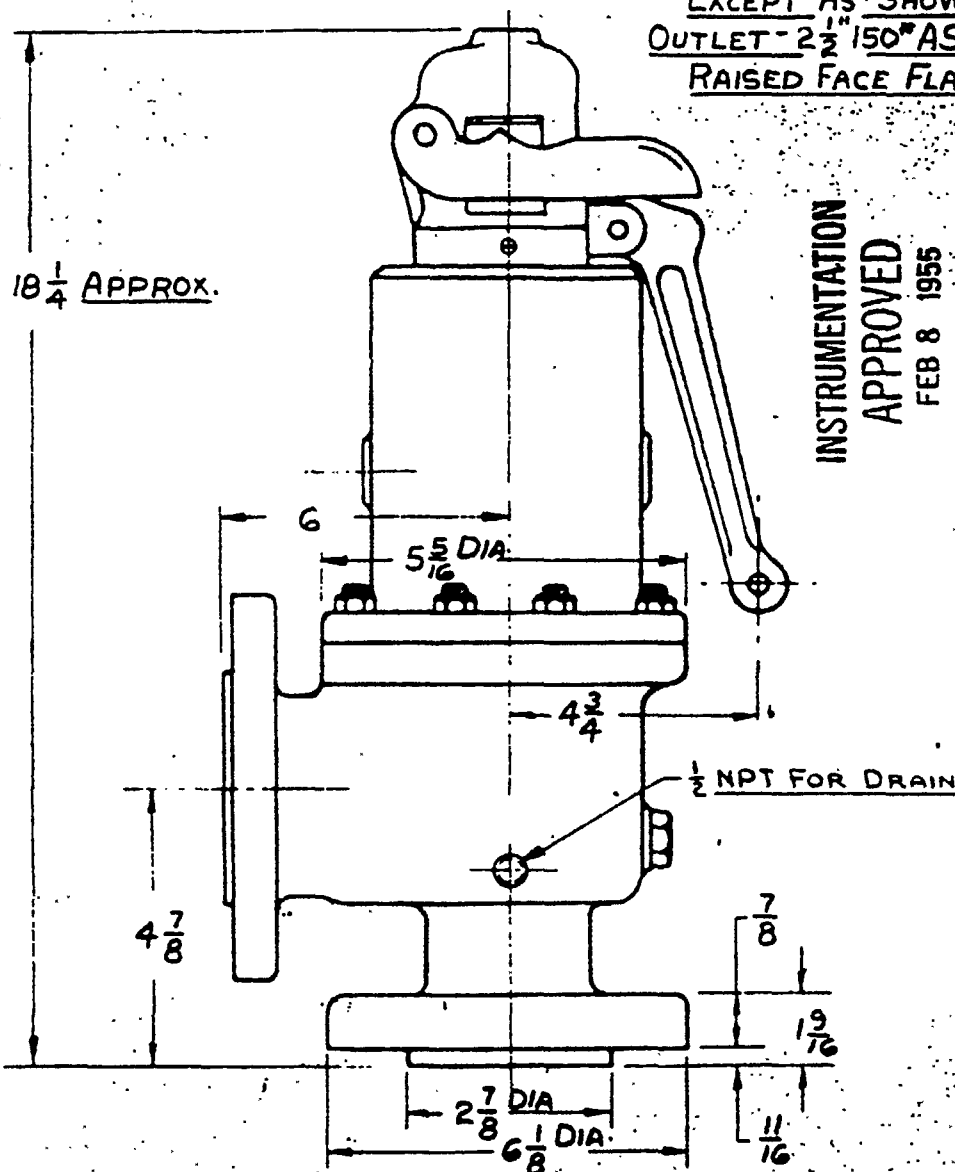
PRPD. BY— <u>Cap</u>	REV.	BY	DATE
DATE— <u>11/10/54</u>			
CHKD. BY— <u>EDH</u>			
DATE— <u>11-2-54</u>			
APPVD. BY— <u>WJH</u>			
DATE— <u>12-2</u>			
APPVD. FOR REGR.— <u>WJH</u>	DATE— <u>12-5-54</u>		
APPVD. FOR PURCH.— <u>WJH</u>	DATE— <u>1-2-55</u>		

DE 006803

1000 - 217

JOB NO.— TEX 3585 P. O. NO.— 3585-100-217

INLET - $1\frac{1}{2}$ " 300° ASA STD.
 RAISED FACE FLANGE
 EXCEPT AS SHOWN:
 OUTLET - $2\frac{1}{2}$ " 150° ASA STD.
 RAISED FACE FLANGE



INSTRUMENTATION
 APPROVED
 FEB 8 1955

AS TO DESIGN & GENERAL ARRANGEMENT
 SIGNED: *G. B. Allen*

P.O. No. TEX-3585-1002-264
 Job No. Q
 Tag: ~~PRV-1601~~ PRV-1601
 Set Press. 275 psig

$1\frac{1}{2}$ " TYPE 1910Gt
 SAFETY RELIEF VALVE

CONSOLIDATED RELIEF VALVES
 MANNING, MAXWELL & MOORE, INC.
 TULSA, OKLAHOMA

CERTIFIED
 W. E. VESIE, CHIEF ENGR.
 BY *W. N. Galt*

$1\frac{1}{2}$ -1910Gt-31-7-0

PART NAME	MATERIAL
Base	Carbon Steel
Nozzle	Stainless Steel
Disc	Stainless Steel
Disc Retainer	Stainless Steel
Disc Holder	Stainless Steel
Guide	Stainless Steel
Guide Sleeve	Carbon Steel
Guide Flange	Soft Iron
Guide Gasket	Stainless Steel
Adjusting Ring	Carbon Steel
Adj. Ring Pin	Stainless Steel
Ring Pin Head	Carbon Steel
Ring Pin Stem	Stainless Steel
Adj. Ring Pin Gasket	Soft Iron
Bonnet	Carbon Steel
Bonnet Gasket	Soft Iron
Stud	Class B7 Steel
Stud Nuts	Carbon Steel
Spindle	Stainless Steel
Spindle Head	Carbon Steel (Rustproofed)
Spindle Stem	Stainless Steel
Spindle Retainer	Carbon Steel
Spring Washer	Carbon Steel (Rustproofed)
Spring - 1910 (c) Valves	Tungsten Steel (Rustproofed)
1910 (t) Valves	Stainless Steel
Adjusting Screw	Carbon Steel
Adj. Screw Nut	Carbon Steel
Cap (Screwed, Bolted and Packed Lifting Gear)	Soft Iron
Cap Gasket	Carbon Steel
Cap Bolts	Malleable Iron
Cap (Plain Lifting Gear)	Malleable Iron
Lifting Levers	Carbon Steel
Lever Pins	Cast Iron
Lever Weight	Stainless Steel
Lever Shaft	Stainless Steel
Packing Nut	Asbestos
Packing	Malleable Iron
Lifting Fork	Carbon Steel
Release Nut	

INSTRUMENTATION
APPROVED

FEB 8 1956

AS TO DESIGN & GENERAL ARRANGEMENT

SIGNED: *A. Bullen / eap*

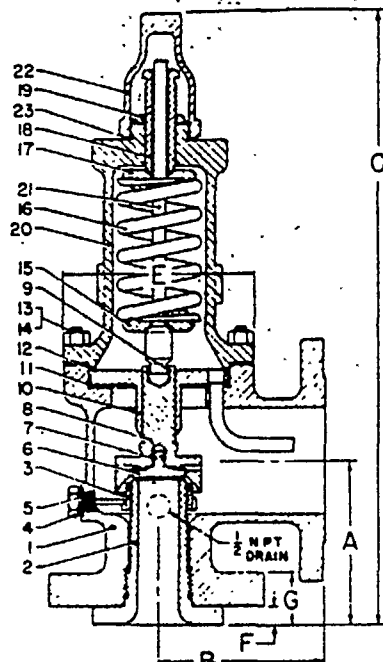
P.O. No. TEX-3585-1002-264
Job No. Q
Tag: ~~PRV-1601~~ PRV-1601
Set Press. 275 psig

PARTS AND MATERIAL LIST
FOR
TYPE 1910 STEEL SAFETY RELIEF VALVE

CONSOLIDATED RELIEF VALVES
MANNING, MAXWELL & MOORE INC.
TULSA, OKLAHOMA

CERTIFIED
W. E. LESLIE CHIEF ENGR.
BY *W. E. Leslie*

1910



REF. NO.	NOMENCLATURE	MATERIAL
1	BASE (1905-1912) BASE (1920-1922) EDUCTOR TUBE	ASTM A216 GRADE WCB CARBON STEEL ASTM A217 GRADE WC1 ALLOY STEEL AISI 304 STAINLESS STEEL
2	NOZZLE	ASTM A182 GRADE F304 STAINLESS STEEL
3	ADJUSTING RING	17-20% CHROME STEEL
4	ADJ. RING PIN RING PIN HEAD RING PIN STEM	AISI A4140 CARBON STEEL AISI 414 STAINLESS STEEL
5	ADJ. RING PIN GASKET	SOFT IRON
6	DISC	ASTM A182 GRADE F304 STAINLESS STEEL
7	DISC RETAINER	AISI 302 STAINLESS STEEL
8	DISC HOLDER	ASTM A182 GRADE F304 STAINLESS STEEL
9	SPINDLE RETAINER	AISI 302 STAINLESS STEEL
10	GUIDE GUIDE SLEEVE	AISI 430 STAINLESS STEEL (17% MIN. CHROME)
11	GUIDE FLANGE	AISI C1020 CARBON STEEL
12	GUIDE GASKET	SOFT IRON
13	BONNET GASKET	SOFT IRON
14	STUD	ASTM A193 GRADE B7 ALLOY STEEL
15	NUT	ASTM A194 CLASS 1 STEEL
16	SPRING WASHER SPRING TYPES 1900Q TYPES 1900Q1	AISI C1020 CARBON STEEL CARBON STEEL (RUSTPROOFED) TUNGSTEN STEEL (8.75-9.75 TUNGSTEN) (RUSTPROOFED)
17	SPRING WASHER	AISI C1020 CARBON STEEL
18	ADJUSTING SCREW	AISI 414 STAINLESS STEEL
19	ADJ SCREW NUT	AISI C1020 CARBON STEEL
20	BONNET	ASTM A216 GRADE WCB CARBON STEEL
21	SPINDLE SPINDLE HEAD SPINDLE STEM	AISI 414 STAINLESS STEEL AISI C1020 CARBON STEEL (RUSTPROOFED)
22	CAP	ASTM A216 GRADE WCB CARBON STEEL
23	CAP GASKET	SOFT IRON

INSTRUMENTATION
APPROVED
JUL 31 1956

PO. TEX 3585-1014-1000
TAG: PRV-1605 & 1606

DESIGN & GENERAL PLANT WORK
ENGR. *S. S. Smith* / *CS*

TYPE	INLET (EXCEPT AS NOTED)	OUTLET	A	B	C	D	E	F	G	K	L	M	N	P	Q	R	APPROX WEIGHT
1905Qc 1905Ql	6" 150° ASA STD RF OR RJ	8" 150° ASA STD RF	9 7/8	9 1/2	39 1/2	41	13 3/8	13 1/8	13 1/8	2 1/4	20	24	36	44	7 3/8	6 1/2	430
1906Qc 1906Ql	6" 300° ASA STD RF OR RJ	8" 150° ASA STD RF	9 7/8	9 1/2	39 1/2	41	13 3/8	13 1/8	2 1/4	2 1/4	20	24	36	44	7 3/8	6 1/2	445
1910Qc 1910Ql	6" 300° ASA STD RF OR RJ	8" 150° ASA STD RF	9 7/8	9 1/2	41 3/4	43 1/4	14	13 1/8	2 1/4	2 1/4	20	24	36	44	7 3/8	6 1/2	580
1912Qc 1912Ql	6" 600° ASA STD RF OR RJ	8" 150° ASA STD RF	9 7/8	9 1/2	44 1/2	46	14 1/4	13 1/8	2 1/4	2 1/4	20	24	36	44	7 3/8	6 1/2	710
1920Ql	6" 300° ASA STD RF OR RJ	8" 150° ASA STD RF	9 7/8	9 1/2	39 1/2	41	13 3/8	13 1/8	2 1/4	2 1/4	20	24	36	44	7 3/8	6 1/2	445
1922Ql	6" 600° ASA STD RF OR RJ	8" 150° ASA STD RF	9 7/8	9 1/2	44 1/2	46	14 1/4	13 1/8	2 1/4	2 1/4	20	24	36	44	7 3/8	6 1/2	710

CONSOLIDATED
SAFETY RELIEF VALVES



MANNING, MAXWELL & MOORE, INC.
TULSA, OKLAHOMA

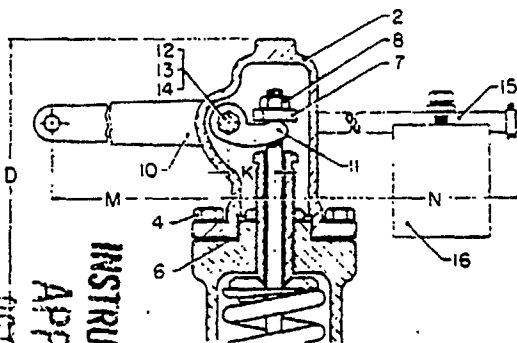


CERTIFIED
W.E. LESLIE, CHIEF ENGR.
BY *W. N. Gathie*

1905Q-1922Q

DE 006806

REF. NO.	NOMENCLATURE	MATERIAL
1	CAP (STEEL VALVES)	ASTM A216 GRADE WCB CARBON STEEL
	CAP (IRON VALVES)	ASTM A126 CLASS B CAST IRON
2	CAP	ASTM A216 GRADE WCB CARBON STEEL
3	CAP	ASTM A47 GRADE 350/8 MALLABLE IRON
4	CAP BOLT	CARBON STEEL
5	CAP SET SCREW	CARBON STEEL
6	CAP GASKET	SOFT IRON
7	RELEASE NUT	ASTM C1020 CARBON STEEL
8	RELEASE LOCK NUT	CARBON STEEL
9	LEVER	ASTM A47 GRADE 350/8 MALLABLE IRON
10	LEVER	SAE 2340 FORGED STEEL
11	LIFTING FORK	ASTM A47 GRADE 350/8 MALLABLE IRON
12	LEVER SHAFT	AISI 414 STAINLESS STEEL
13	PACKING	ASBESTOS
14	PACKING NUT	AISI 414 STAINLESS STEEL
15	PIPE	IRON PIPE
16	WEIGHT	CAST IRON
17	EXTENSION ARM	ASTM A216 GRADE WCB CARBON STEEL
18	TOP LEVER	ASTM A47 GRADE 350/8 MALLABLE IRON
19	DROP LEVER	ASTM A47 GRADE 350/8 MALLABLE IRON
20	GAG	AISI C1020 CARBON STEEL
21	SEALING PLUG	AISI C1020 CARBON STEEL
22	SEALING PLUG GASKET	SOFT IRON



A cross-sectional diagram of a trigger gun assembly. It shows a central trigger gun handle with a trigger button at the top. The handle is connected to a spray lance. A spring is visible below the handle, likely for the trigger mechanism. The entire assembly is mounted on a base plate. Labels with leader lines point to various components: 'D' points to the trigger button, 'E' points to the trigger gun handle, 'F' points to the spray lance, 'G' points to the base plate, and 'H' points to the spring.

CONSOLIDATED
SAFETY RELIEF VALVES

W. E. LESLIE, CHIEF ENGR.
BY *U. N. Patton*

DE 006807

