

METHYL CHLORIDE
150 Psig Maximum

Piping System

Series 150-1

Valves (For General Valve Index See Engineering Specification 48-900)

1" thru 1 1/2"	V-367 (Gate)	800-lb. screwed, CS/Y, solid wedge, gate valve, carbon steel body, 13 chrome alloy steel trim with hard-faced seat rings.
1 1/2" thru 2"	V-617 (Gate)	150-lb. flanged, CS/Y, gate valve, carbon steel body, 13 chrome alloy steel trim with hard-faced seats.
2" thru 18"	V-56 (Gate)	150-lb. flanged, CS/Y, wedge gate valve, carbon steel body, 13 chrome alloy steel trim with nickel alloy seat rings.
1" thru 1 1/2"	V-104 (Globe)	600-lb. screwed, CS/Y, globe valve, carbon steel body, 13 chrome alloy steel trim with hard-faced seat, bolted bonnet.
2" thru 8"	V-36 (Globe)	150-lb. flanged, CS/Y, globe valve, carbon steel body, 13 chrome alloy steel trim.
1" thru 1 1/2"	V-102 (Check)	600-lb. screwed, horizontal lift, check valve, carbon steel body, 13 chrome alloy steel trim, bolted cap.
2" thru 18"	V-46 (Check)	150-lb. flanged, horizontal swing, check valve, carbon steel body, 13 chrome alloy steel trim, bolted cap.
1" thru 1 1/2"	V-87 (Plug)	300-lb. screwed, carbon steel, lubricated, wrench operated, plug valve.
2" thru 4"	V-383 (Plug)	150-lb. flanged, carbon steel, short pattern plug valve, wrench operated, lubricated.
6" thru 8"	V-384 (Plug)	150-lb. flanged, carbon steel, short pattern plug valve, wrench operated, lubricated.
8" thru 18"	V-54 (Plug)	150-lb. flanged, carbon steel, worm gear operated, lubricated, short pattern plug valve.
1 1/2" thru 18"	V-373 (Plug)	125-lb. flanged, venturi pattern, plug valve, semisteel, spur gear operated, lubricated.

* General Revision

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1501 per
Bo East
4/27/69*

METHYL CHLORIDE
150 PSIG MAX

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PIPE

P-6	1/4 THRU 1 1/2	ASTM A-53 OR API-5L, SCH 40 CONTINUOUS BUTT WELD STEEL PIPE.
P-3	2 THRU 10	ASTM A-53 OR API-5L, GR A OR B, SCH 40 SEAMLESS STEEL PIPE, OPEN HEARTH OR ELEC FURNACE STEEL.
P-32	12 THRU 18	ASTM A-53 OR API-5L, GR A OR B, 0.375 WALL, SEAMLESS OR ELEC WELD STEEL PIPE. PIPE SIZES OVER 24 OD TO BE ASTM A-134 USING ASTM A-285 GR B OR C STEEL PLATE.

FITTINGS 90 DEG ELL, 45 DEG ELL, TEE, CROSS, REDUCER

ELXR-3	1/4 THRU 1 1/2	1000-LB SCREWED DUCTILE IRON FITTINGS, ASTM A-395.
R-22		EX STRONG FORGED STEEL SCREWED SWAGED NIPPLE.
C-1		1000-LB DUCTILE IRON SCREWED LINE COUPLING.
C-3W		3000-LB FORGED STEEL SCREWED COUPLING, OR STD WEIGHT THREDDERT, FOR WELDING IN.
PC-1		PLUG-USE EX HEAVY NIPPLE AND PIPE CAP.
U-5		3000-LB SCREWED FL UNION, ROCKWELL 603 OR AAR 3000-LB STD.
ELR-15	2 THRU 18	STD WEIGHT SEAMLESS STEEL WELDING FITTINGS, ASTM A-234 GR WPA 10.1 PH, ASA B16.9.
PC-4	2 THRU 12	WELDING CAP, WALL THICKNESS AND MATERIAL TO CONFORM WITH WELDING FITTINGS.
PC-7	14 THRU 18	ASME STD FLANGED AND RISHED HEAD WITH 1 1/2 INCH STRAIGHT FLANGE, 0.375 WALL, OD TO CONFORM WITH PIPE SIZE, ASTM A-285 GR B OR C STEEL.

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FLANGES

- F-24-RF 150-LB RAISED FACE WELDING NECK FLANGE, ASTM A-181 GR I OR II, ASA B16.5, MORE 10 MATCH WELDING FITTINGS.
- F-3-RF 150-LB RAISED FACE BLIND FLANGE, ASTM A-181 GR I OR II, ASA B16.5.
- N-66 REDUCING FLANGES SHALL BE SLIP-ON TYPE EXCEPT ON SIZES WHERE THREADED FITTINGS ARE SPECIFIED THREADED REDUCING FLANGES MAY BE USED.

BRANCH CONNECTIONS

- BC-2S FOR THREADED PIPING, USE STRAIGHT SIZE OR REDUCING TEE. WHEN BRANCH IS SMALLER THAN HEADER, A NIPPLE AND REDUCING COUPLING OR SWAGED NIPPLE MAY BE USED.
- BC-16W FOR WELDED PIPING, BRANCH LINES MAY BE WELDED IN WITHOUT REINFORCEMENT REGARDLESS OF SIZE COMBINATION. FOR THREADED BRANCH CONNECTION, USE THREDLET OR 3000-LB FULL COUPLING WELDED TO HEADER.

GASKETS

- G-4 STD FLAT RING GASKET, 1/16 INCH THICK ASBESTOS, GAPLOCK 600.

JOINT COMPOUND

- JC-1S TEFLON TAPE 1/2 INCH BY 3 MIL THICKNESS, SCOTCH BRAND 547.

FLANGE BOLTS

- B-1 ASTM A-307 GR B GALV MACHINE BOLTS WITH HEAVY HEX NUTS.

BOLT LUBRICANT

- BL-3 TEXACO 2303 THREACK.

VALVES

- V-367 1/4 THRU 1 1/2 800-LB SCREWED BODY SOLID WEDGE GATE VALVE, CARBON STEEL BODY, 13 CR 5% Ni ALLOY STEEL

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TRIM WITH HARD-FACED SEAT RINGS.

CRANE 3604XU
HANCOCK 950S
JENKINS 8800
OIC 1111-W
PACIFIC 595-2
RP-C F-56-DE
SMITH 800-SE
VELAN S-2540-2TY
VOGT 12111-18
WORCESTER 600-PF

V-617 1 1/2 THRU 2

150-LB FLANGED OXYGEN GATE VALVE, CARBON
STEEL BODY, 13 CHROME ALLOY STEEL TRIM &
HARD-FACED SEATS.
CRANE 3510XU
HANCOCK 950-F-15
JENKINS 8815
OIC 1100-W
PACIFIC 3150-2
RP-C F-152-DE
SMITH 915

V-56 3 THRU 18

150-LB FLANGED OXYGEN WEDGE GATE VALVE,
CARBON STEEL BODY, 13 CHROME ALLOY STEEL
TRIM WITH NICKEL ALLOY SEAT RINGS.
CRANE 47XR
JENKINS 1009-CM
LUNK 1751H6
OIC 1502-N
PACIFIC 150-3
POWELL 1503
RP-C 1501DR
STOCKHAM 15-CF-4
VALVORTH 5202-F-415

V-104 1/4 THRU 1 1/2

600-LB SCREWED OXYGEN GLOBE VALVE, CARBON
STEEL BODY, 13 CHROME ALLOY STEEL TRIM WITH
HARD-FACED SEAT, POLISHED BONNET.
CRANE 3644XW
HANCOCK 5500-S
JENKINS 8680
OIC 1711-X
PACIFIC 3661-2
RP-C F-80-DE
SMITH G-80SE

V-36 2 THRU 8

150-LB FLANGED OXYGEN GLOBE VALVE, CARBON
STEEL BODY, 13 CHROME ALLOY STEEL TRIM.
CHAPMAN 153-A

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CRANE 143X
JENKINS 1040-C
LUNK 175582
OIC 1532-C
PACIFIC 160-1
POWELL 1531-P
RP-C 1511D
STOCKHAM 15-GPF-1
WALWORTH 5275-F-AA

V-102 1/4 THRU 1 1/2 600-LB SCREWED HORIZONTAL LIFT CHECK VALVE,
CARBON STEEL BODY, 13 CHROME ALLOY STEEL
TRIM, BOLTED CAP.

CRANE 3674X
JENKINS 8080
OIC 2311-W
PACIFIC 3681-1
RP-C F-90-DE
SMITH 880R

V-46 2 THRU 10 150-LB FLANGED HORIZONTAL SWING CHECK
VALVE, CARBON STEEL BODY, 13 CHROME ALLOY
STEEL TRIM, BOLTED CAP.

CHAPMAN 151-A
CRANE 147X
JENKINS 1025-C
LUNK 175982
OIC 1572-C
PACIFIC 150-1
POWELL 1561-A
RP-C 1531D
STOCKHAM 15-SF-1
WALWORTH 5341-F-AA

V-87 1/2 THRU 1 1/2 300-LB SCREWED CARBON STEEL, LUBRICATED,
WRENCH OPERATED, PLUG VALVE.
NORD 2024
WALWORTH 1760

V-383 2 THRU 4 150-LB FLANGED CARBON STEEL SHORT PATTERN,
PLUG VALVE, WRENCH OPERATED, LUBRICATED.
NORD 1925
WALWORTH 1749-F

V-384 6 THRU 8 150-LB FLANGED CARBON STEEL SHORT PATTERN,
PLUG VALVE, WRENCH OPERATED, LUBRICATED.
NORD 1945
WALWORTH 1754-F

V-54 8 THRU 12 150-LB FLANGED CARBON STEEL, WORM GEAR

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OPERATED, LUBRICATED, SHORT PATTERN PLUG
VALVE.

NORD 1989

V-373 14 THRU 18

125-LB FLANGED VENTURI PATTERN PLUG VALVE,
SEMISTEEL, SPUR GEAR OPERATED, LUBRICATED.
NORD 1167

N-31

PLUG VALVES 14 THRU 20 INCH ARE LIMITED TO
125 PSIG MAX AND 361F MAX.

Note:

1. Piping shall be installed in accordance with Engr Spec. 47-110.

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THE DOW CHEMICAL COMPANY

TEXAS DIVISION
FREEPORT TEXAS 77541

Date:

June 26, 1969

To: _____

Attached is a copy of Engineering Specification, Piping

Spec. 46-700, Dated 7-15-69, Page(s) 13

which is in final form for issuing.

If this specification meets your approval, please sign below and return.

Issuing date has been set for 7-15-69. To meet this deadline this copy must be returned promptly as it cannot be issued until we receive your signature as approved.

Note: (R) on the specification indicates revision.

APPROVED: _____

O A EASTON

Date: 6-27-69

NOT APPROVED AS MARKED: _____

Date: _____

RETURN TO:

Angie H. Barnes
Building A-1201

ahb

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