



POLYETHYLENE  
ETHYLENE GAS  
250 PSIG @ 150F  
150 PSIG @ 450F

PIPE

P-28 1/4 THRU 1 1/2 ASTM A-106 GR A OR B, EX STRONG SEAMLESS  
STEEL PIPE.

P-3 2 THRU 8 ASTM A-53 OR API-5L, GR A OR B, SCH 40  
SEAMLESS STEEL PIPE, OPEN HEARTH OR ELEC  
FURNACE STEEL.

FITTINGS E=90 DEG ELL, L=45 DEG ELL, T=TEE, X=CROSS, R=REDUCER

⑧ ELTR-66 1/4 THRU 1 1/2 2000-LB SCREWED FORGED STEEL FITTINGS, ASTM  
A-105 GR II.

C-3 3000-LB FORGED STEEL SCREWED COUPLING, ASTM  
A-105 GR II.

U-5 3000-LB SCREWED FS UNION, ROCKWOOD 603 OR  
AAR 3000-LB STD.

ELTR-15 2 THRU 8 STD WEIGHT SEAMLESS STEEL WELDING FITTINGS,  
ASTM A-234 GR WPA OR WPB, ASA B16.9.

PC-4 WELDING CAP, WALL THICKNESS AND MATERIAL TO  
CONFORM WITH WELDING FITTINGS.

FLANGES

F-24-RF 150-LB RAISED FACE WELDING NECK FLANGE,  
ASTM A-181 GR I OR II, ASA B16.5, BORE TO  
MATCH WELDING FITTINGS.

F-3-RF 150-LB RAISED FACE BLIND FLANGE, ASTM A-181  
GR I OR II, ASA B16.5.

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-58W FOR WELDED PIPING, USE STRAIGHT SIZE OR  
REDUCING TEE. WELDLET OR REINFORCED NOZZLE  
MAY BE USED ON REDUCING BRANCH CONNECTION.

**STANDARD**

PLACE OF REDUCING TEE. FOR THREADED BRANCH CONNECTION, USE THREDOLET OR 3000-LB FULL COUPLING WELDED TO HEADER.

## GASKETS

G-4

STD FLAY RING GASKET: 1/16 INCH THICK  
ASBESTOS: GARLOCK 900.

## JOINT COMPOUND

35-15

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

FLANGE BOLTS

6-1

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

## BOLT LUBRICANT

31. - 1 A

ARMITE LED-PLATE 250.

## VALVES

W. 357 1/4 THRU 1 1/4.

600-LB SCREWED OS&Y WELD WEDGE GATE VALVE,  
CARBON STEEL BODY, 1 1/2 INCH ALLOY STEEL  
TRIM WITH HARD-FACED SEAT RINGS.

CRANE 3604XU

HANCOCK 3505

JENKINS 3800

OIC 1111-4

PACIFIC 595-2

RP-C F-56-DE

SMITH 800-SE

VELAN S-2540-2TY

VOGT 12111-18

WORCESTER 600-HF

V-617 1/2 THRU 2

150-LB FLANGED OS&Y GATE VALVE, CARBON  
STEEL BODY, 13 CHROME ALLOY STEEL TRIM WITH  
HARD-FACED SEATS.

CRANF 3510XU

HANCOCK 950-F-15

JENKINS 0315

OIC 1100--W

PACIFIC 7150-2

RP-C F-109-2F

SMITH DIS

Robertas - Kelat  
Warrant  
Baskets  
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|       |                |                                                                                                                                                                                                                                                                           |
|-------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V-56  | 3 THRU 8       | 150-LB FLANGED OS/Y WEDGE GATE VALVE, CARBON STEEL BODY, 13 CHROME ALLOY STEEL TRIM WITH NICKEL ALLOY SEAT RINGS.<br>CRANE 47XR<br>JENKINS 1009-CM<br>LUNK 1751B6<br>DIC 1502-N<br>PACIFIC 150-3<br>POWELL 1503<br>RP-C 1501DR<br>STOCKHAM 15-OF-4<br>WALWORTH 5202-F-AAA |
| V-104 | 1/4 THRU 1 1/2 | 600-LB SCREWED OS/Y GLOBE VALVE, CARBON STEEL BODY, 13 CHROME ALLOY STEEL TRIM WITH HARD-FACED SEAT, BOLTED BONNET.<br>CRANE 3644XW<br>HANCOCK 5500-S<br>JENKINS 8G80<br>DIC 1711-W<br>PACIFIC 3661-2<br>RP-C F-80-DE<br>SMITH G-80SE                                     |
| V-36  | 2 THRU 8       | 150-LB FLANGED OS/Y GLOBE VALVE, CARBON STEEL BODY, 13 CHROME ALLOY STEEL TRIM.<br>CHAPMAN 153-A<br>CRANE 143X<br>JENKINS 1040-C<br>LUNK 1755B2<br>DIC 1532-C<br>PACIFIC 160-1<br>POWELL 1531-P<br>RP-C 1511D<br>STOCKHAM 15-GPF-1<br>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.<br>CRANE 3674X<br>JENKINS 8C80<br>DIC 2311-W<br>PACIFIC 3681-1<br>RP-C F-90-DE<br>SMITH C80R                                                                       |
| V-46  | 2 THRU 8       | 150-LB FLANGED HORIZONTAL SWING CHECK VALVE, CARBON STEEL BODY, 13 CHROME ALLOY STEEL TRIM, BOLTED CAP.                                                                                                                                                                   |

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CHAPMAN 151-A  
CRANE 147X  
JENKINS 1025-C  
LUNK 1759B2  
OIC 1572-C  
PACIFIC 180-1  
POWELL 1561-A  
RP-C 1531D  
STOCKHAM 15-SF-1  
WALWORTH 5341-F-AA

Note:

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