



# AURORA 790 CP BOSS

## SELECTION DATA

**DETERMINE PRV SIZE(S):**

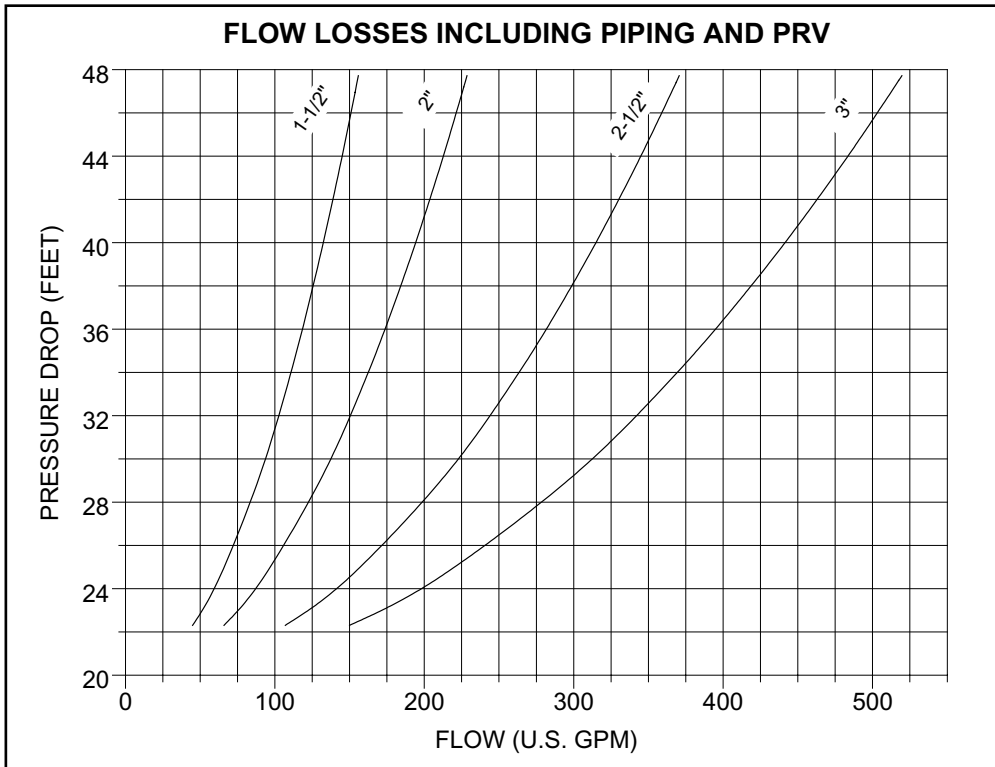
*(PRV size is based on individual pump flows)*

PUMP FLOW	0-110 GPM	111-191 GPM	192-280 GPM	281-435 GPM
PRV SIZE	1-1/2"	2"	2-1/2"	3"

Duplex: PRV1 \_\_\_\_\_ in.      Triplex: PRV1 \_\_\_\_\_ in.  
 PRV2 \_\_\_\_\_ in.                      PRV2 \_\_\_\_\_ in.  
    PRV3 \_\_\_\_\_ in.

**DETERMINE SYSTEM/PIPING/PRV FLOW LOSSES:**

C:      Determine Flow Losses based on PRV size: \_\_\_\_\_ FT.



*(See Chart Below)*

Duplex: P1 Flow Losses \_\_\_\_\_ Ft (C1)      Triplex: P1 Flow Losses \_\_\_\_\_ Ft (C1)  
 P2 Flow Losses \_\_\_\_\_ Ft (C2)                      P2 Flow Losses \_\_\_\_\_ Ft (C2)  
    P3 Flow Losses \_\_\_\_\_ Ft (C3)

**CALCULATE REQUIRED PUMP TDH: [ (A - B) X 2.31 ] + C**

A: Required System Discharge Pressure (From Field Conditions)

B: System Suction Pressure (From Field Conditions)

C: (1,2,3): Flow Losses (From Chart Above)

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Dated **October 2003**

P1 [ (A) \_\_\_\_\_ PSIG - (B) \_\_\_\_\_ PSIG ] x 2.31 + (C1) \_\_\_\_\_ Ft. = \_\_\_\_\_ Ft.  
 P2 [ (A) \_\_\_\_\_ PSIG - (B) \_\_\_\_\_ PSIG ] x 2.31 + (C2) \_\_\_\_\_ Ft. = \_\_\_\_\_ Ft.  
 P3 [ (A) \_\_\_\_\_ PSIG - (B) \_\_\_\_\_ PSIG ] x 2.31 + (C3) \_\_\_\_\_ Ft. = \_\_\_\_\_ Ft.

## Individual Pump Duty Points:

P1 \_\_\_\_\_ GPM @ \_\_\_\_\_ Ft. TDH

P2 \_\_\_\_\_ GPM @ \_\_\_\_\_ Ft. TDH

P3 \_\_\_\_\_ GPM @ \_\_\_\_\_ Ft. TDH

**TANK SELECTION & MOUNTING OPTIONS:**

Select the tank size required:

 120-132 gallon       158-165 gallon       211-220 gallon

Select tank pressure:

 125       175

Tank mounting:

 Remote (by others)       Factory mounted on system base
**PUMP & MOTOR SELECTION:**

Select required pumps from the CP Boss Bulletin. Curves are available from the 390 section of the Aurora Pump catalog or H2Optimize.

**CONTROL PANEL SELECTION:**

Control Panel Configuration:

 Duplex       Triplex

Controller Phase:

 1       3

Controller Voltage:

 115       208       230       460

Pump Horsepower Requirements:

Duplex: P1 \_\_\_\_\_ HP      Triplex: P1 \_\_\_\_\_ HP

P2 \_\_\_\_\_ HP      P2 \_\_\_\_\_ HP

P3 \_\_\_\_\_ HP

Pump Sequencing:

 Pressure Sensing       Flow Sensing       Current Sensing

Control Panel Options

- A High System Pressure Switch & Light
- B High Suction Pressure Switch & Light
- C Low System Pressure Switch & Light
- D Three Phase Lightning Arrestor
- E O/L Trip Light (alarm w/silence PB Std)
- F Failure to Start Light
- G Circuit Breakers in Place of Fuses
- H Individual Motor Disconnects
- J NEMA 4 Enclosure
- K NEMA 12 Enclosure
- L PLC Display Module

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## SELECTION DATA

### Control Panel Options Cont.

- M PLC Computer Link Cable
- N PLC Memory Cartridge
- P Lead/Lag Manual Selector Switch
- Q Remove Alarm Contacts
- R Space Heater with Thermostat
- T Tank Pressure Switch
- W Elapsed Time Meter
- X Pressure Transducer
- Z PLC Real Time Clock

### SYSTEM TESTS:

Standard Factory Test: All CP Boss systems are factory tested to assure proper sequencing to meet the design flows and pressure.

#### OPTIONAL FACTORY TESTS

- Certified Test
- Witness Test

### SYSTEM DIMENSIONS:

Dimension Page \_\_\_\_\_ (from catalog)