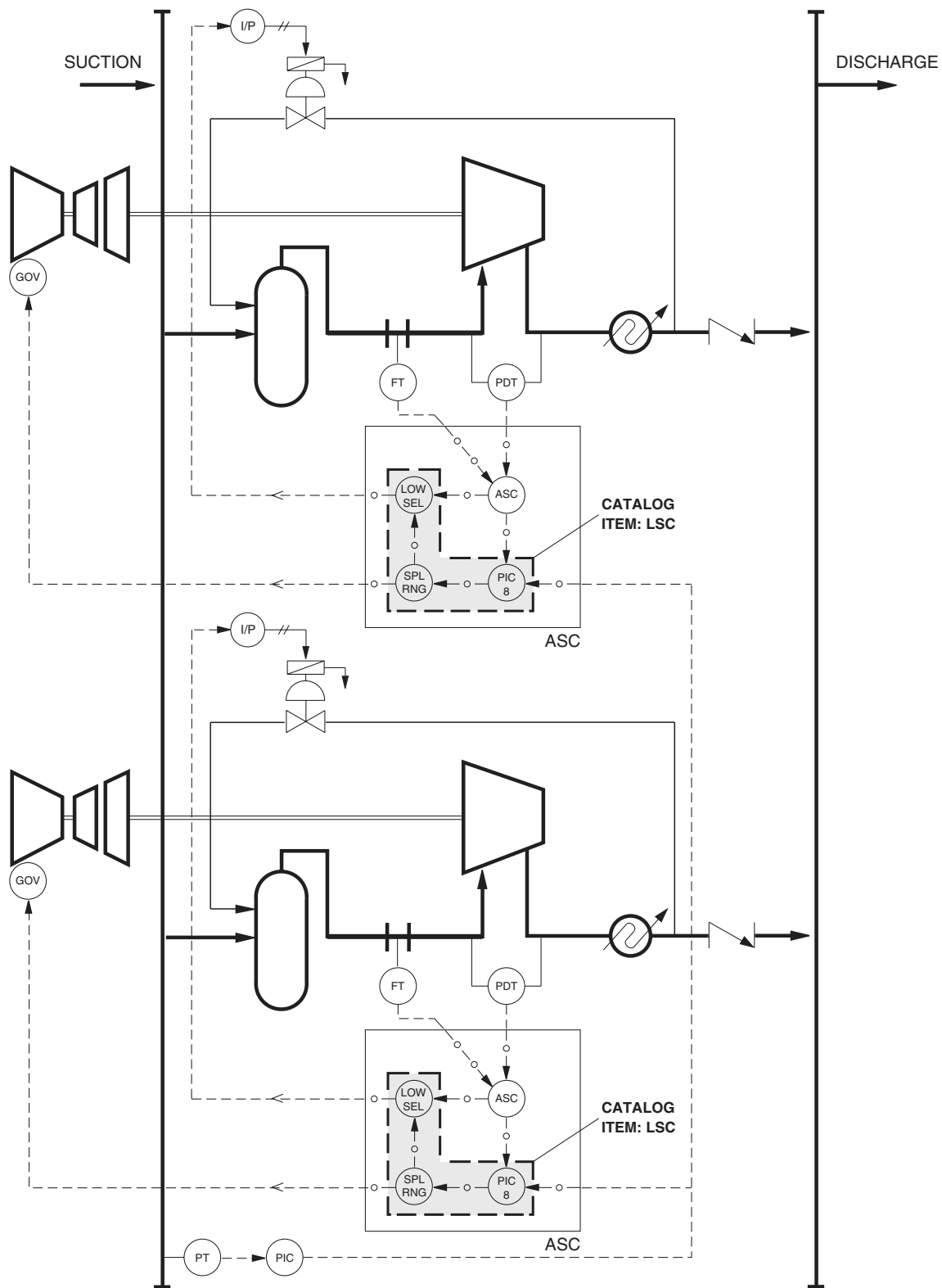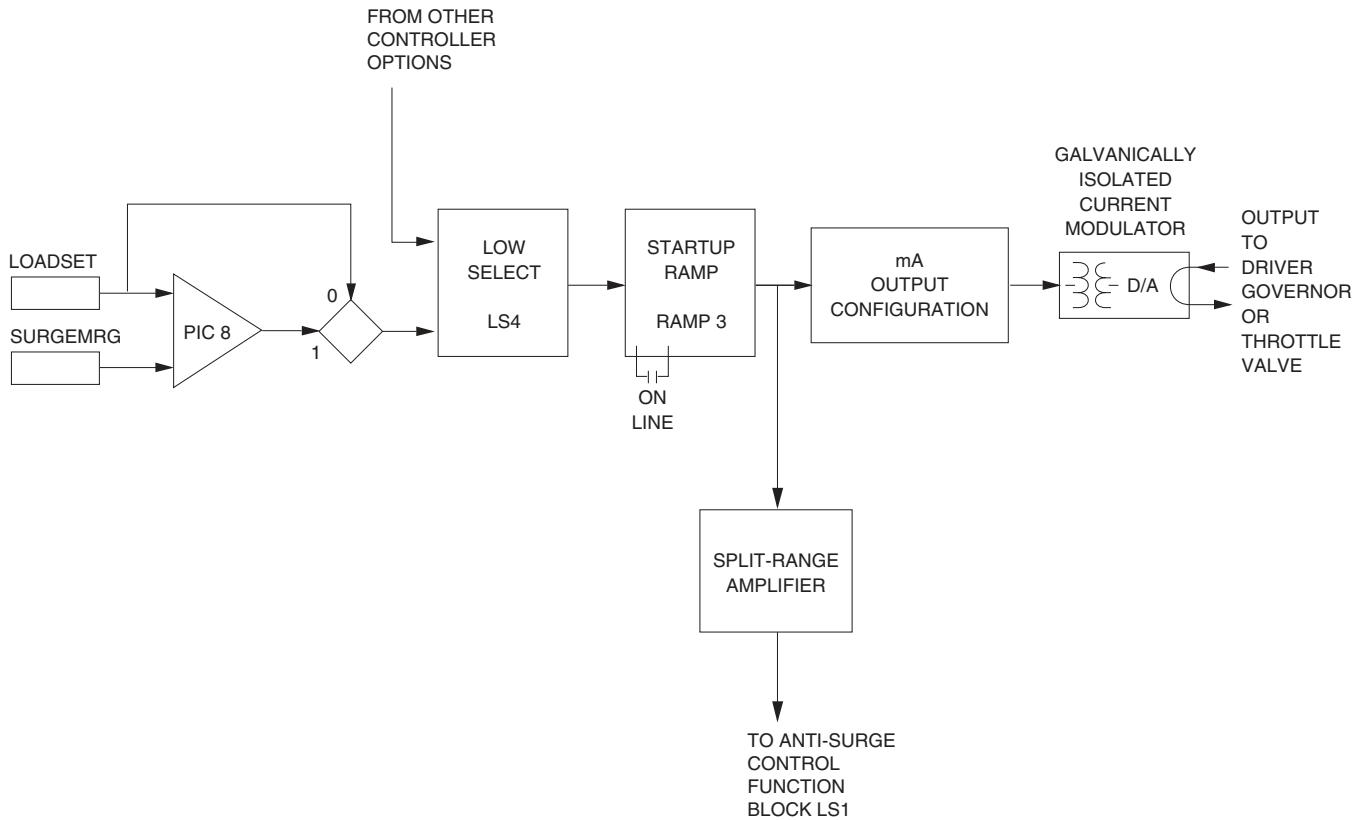# SINGLE BODY LOADSHARE CONTROLLER

PETROTECH

MAY 2012

Simplified instrument diagram showing the LOADSHARE CONTROLLER (PIC 8) option using ASC measurements to provide speed or throttle adjustment for equal surge margin operation of multiple compressors in parallel. The output can control a driver governor as shown, or a throttle valve.

SIMPLIFIED FUNCTIONAL BLOCK DIAGRAM

FROM OTHER
CONTROLLER
OPTIONS

LOADSET

SURGEMRG

PIC 8

0

1

LOW
SELECT

LS4

STARTUP
RAMP

RAMP 3

ON
LINE

mA
OUTPUT
CONFIGURATION

GALVANICALLY
ISOLATED
CURRENT
MODULATOR

D/A

OUTPUT
TO
DRIVER
GOVERNOR
OR
THROTTLE
VALVE

SPLIT-RANGE
AMPLIFIER

TO ANTI-SURGE
CONTROL
FUNCTION
BLOCK LS1

TUNING, SETPOINTS, AND CONFIGURATION

- Select loadshare controller service:

    0 = Not in service

    1 = In service

- Loadshare controller tuning constants.
- Output configuration:

    Minimum mA

    Maximum mA

    Direct/reverse

SCOPE OF SUPPLY

Catalog item LSC, Loadshare Controller option, includes:

- All of the control functions shown above, added to a ASC application control package operating on a PLC hardware platform.

Not included:
- Multiple-Body Integrated Compressor Control application control pacakge (required).
- PLC hardware.