



TYPE K Damper Drives

Apr 2009

BULLETIN SG-8000

APPLICATION DATA

TYPE K Representative information

* Rep Company Lesman Instrument Company
* Sales Contact:

DATE:
Phone: 800-953-7626
Fax: 630-595-2386
E-mail: sales@lesman.com

Your Contact information

* Plant & Unit #:
* Address:
* City/State/Zip
* Contact Name
* Phone:
* Cell: FAX:

BILL TO:
Address:
City/St/Zip:
Contact:
Phone:
E-mail:

Existing Damper Drive info

1. Why is existing drive being replaced?

Blank lines for answer 1

2. What other brands are being considered?

Blank lines for answer 2

3. What drive factors are important to this customer?

Blank lines for answer 3

4. Are there any other TYPE K drives installed at this location?

Blank lines for answer 4

5. What is the application?

Blank lines for answer 5

Comments

Blank lines for comments

K:SG-8000 - 04-08-09

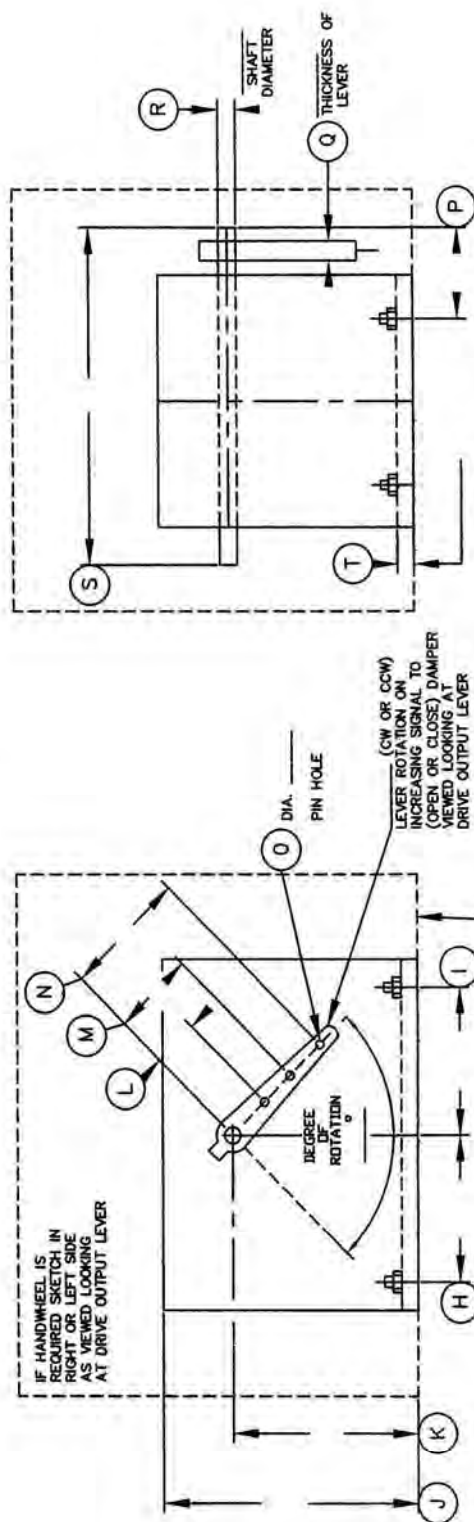
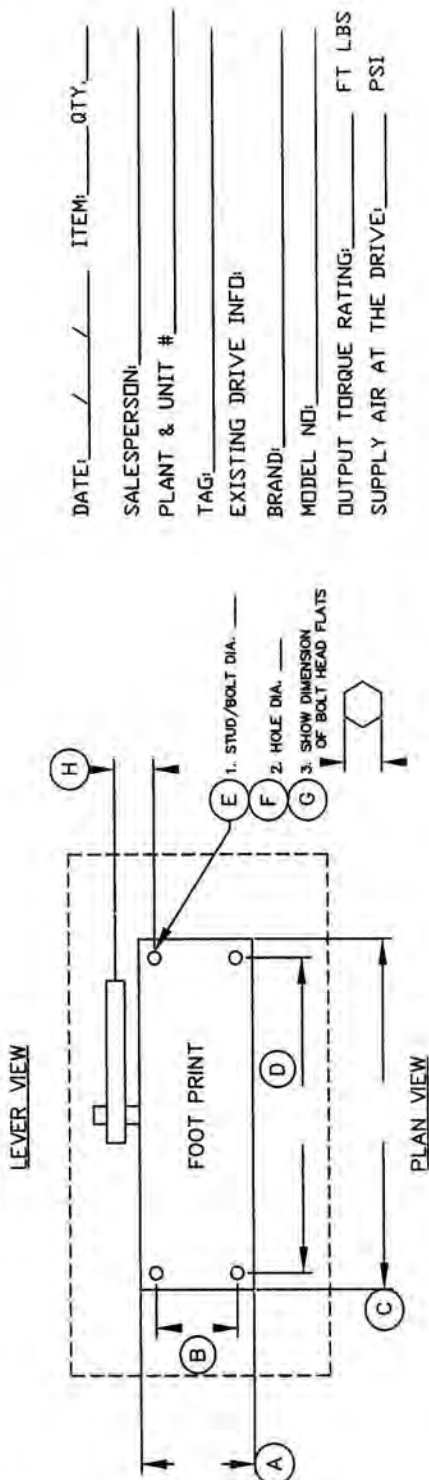
Logo and company name

Contact information

Website: www.lesman.com

For more information or your
Local Representative, call:
Ph: 630-595-2386
Fax: 630-595-2386

EXISTING DAMPER DRIVE DETAILS



USE DASH LINES SKETCH IN ANY OBSTRUCTIONS WITH DIMENSIONS TO THE DRIVE

_____ mA Damper Close

_____ mA Damper Open

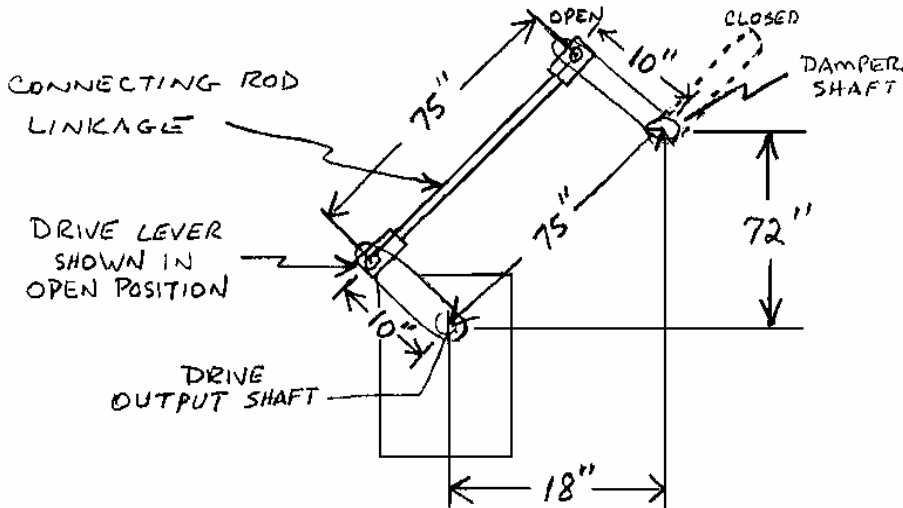
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DRAWING SURVEY/DWG DATE: 12-03-08

EXAMPLE

DRIVE POSITION RELATIONSHIP TO DAMPER LEVER AND CONNECTING ROD LINKAGE



This is an example for one of many different styles of linkage systems.

DAMPER SHOWN IN OPEN POSITION

SKETCH YOUR STYLE LINKAGE APPLICATION WITH DIMENSIONS BELOW:

TYPE K Damper Drives

DATE: _____ REV. _____

ITEM: _____ QTY: _____

QUOTE NO: _____

TAG: _____

FILE NO: _____

PLANT / UNIT NO.: _____

CUSTOMER: _____

END USER P.O. NO: _____

P.O. NO: _____

1 RATED TORQUE AT 100 PSI SUPPLY AIR

TK-1	90 Ft. Lbs.	PLANT Supply Air Min. _____ PSI Norm _____ PSI Max. _____ PSI
TK-2	190 Ft. Lbs.	
TK-3	416 Ft. Lbs.	
TK-4	1000 Ft. Lbs.	
TK-5	2250 Ft. Lbs.	
TK-6	5000 Ft. Lbs.	
TK-7	10416 Ft. Lbs.	

X OTHER: _____

6 ELECTRICAL ENCLOSURE RATING

1 NEMA 4X, Watertight & Dust tight
 2 NEMA 4X, Cl. 1, Gr. C & D, Div. 1, 2, Explosion Proof
 3 NEMA 4X, Cl. 1, Gr. A, B, C & D, Div. 2, Non-Incendive
 X OTHER: _____

7 AIR FAILURE LOCK-UP IN LAST POSITION

Model Number: _____

0 None
 1 Included, Lock-up set at _____ PSI, (Auto-Reset is Std)

2 MOUNTING ARRANGEMENT

1 Pedestal Mount Design _____
 3 Direct Bolt Mount to Damper _____
 5 Direct Weld Mount to Damper _____
 X OTHER: _____

NOTE: Replace existing: _____

8 MANUAL OVERRIDE

Model Number: _____

A None
 B Pneumatic Override
 D Lever Override with locking plate. Specify Quadrant looking at drive output lever: _____
 F Floor Stand Declutchable Handwheel Gear Override: _____
 G Direct Mount Declutchable Handwheel Gear Override: _____
 H Solenoid Valve Override
 X OTHER: _____

3 CONTROL DEMAND SIGNAL

Model Number: _____

At _____ PSI or _____ mAdc: _____ CLOSE _____ OPEN

A 3-15 PSI (Use C-400 Positioner)
 B 3-27 or 6-30 psig (Use C-400 Positioner)
 (Specify: _____ PSI input signal range)
 C 4-20 mAdc with HART (Use S-800 Positioner)
 E 4-20 mAdc with internal I/P (Use C400 Positioner)
 F 4-20 mAdc with external I/P (Use C400 Positioner with XP-1000 or XP-2000 external I/P)
 G 4-20 mAdc for Hold-Last-Position on loss of demand signal (Use C400 Positioner with C-700 External I/P)
 H 4-20 mAdc for Hold-Last-Position on loss of demand signal (Use S-800 with 24 VDC solenoid valve & 24 VDC separate power supplied by end user).
 J 4-20 mAdc for Hold-Last-Position on loss of demand signal & 120 VAC power (Use S-800 with J-Box 120 VAC to 24 VDC power supply and 24 VDC solenoid valve).
 N ON/OFF Solenoid Valve (Single Coil)
 120 VAC, 24 VDC, 125 VDC (Specify: _____)
 P ON/OFF Solenoid Valve (Dual Coil, 2 Position)
 120 VAC, 24 VDC, 125 VDC (Specify: _____)
 S STANDARD: 304 SS Flex Tubing & 316 SS Fittings
 T OPTION: 316 SS Rigid Tubing & 316 SS Fittings
 X OTHER: _____

9 DEGREES OF DAMPER DRIVE ROTATION

_____ Enter Degrees (Example: 90° is standard)

10 DIRECTION OF DAMPER DRIVE ROTATION

PEDESTAL MOUNT DESIGN:
 Rotation: looking at output lever side of drive.

DIRECT MOUNT TO DAMPER:
 Rotation: looking at positioner indicator.

A CCW on Increasing Signal to OPEN damper
 B CCW on Increasing Signal to CLOSE damper
 C CW on Increasing Signal to OPEN damper
 D CW on Increasing Signal to CLOSE damper
 G Energize single solenoid, CCW to OPEN damper
 H Energize single solenoid, CCW to CLOSE damper
 J Energize single solenoid, CW to OPEN damper
 K Energize single solenoid, CW to CLOSE damper
 M Energize dual coil "A" = CCW to OPEN damper
 N Energize dual coil "A" = CCW to CLOSE damper
 X OTHER: _____

4 POSITION FEEDBACK TRANSMITTER

Model Number: _____

_____ 4-20 mA Direct Feedback; _____ 20-4 mA Reverse Feedback

0 None
 2 4-20 mAdc (Use C-400 or S-800 Positioner)
 X OTHER: _____

11 CODES FOR ADDITIONAL ACCESSORIES

Model Number: _____

0 None
 1 Combo Particulate and Coalescing Air Filter with gauge
 2 Particulate Air Filter only
 3 Drive Enclosure with Heater and Thermostat
 4 Connecting Rod Linkage: Clevis or Ball Rod Ends _____" long
 5 Air Pressure Regulator, set at _____ PSI
 6 Air Failure Alarm Pressure Switch/Local Reset Button
 7 2 Volume Booster Relays for fast drive rotation
 8 High ambient temp actuator -40°F to 300°F (-40°C to 150°C)
 9 _____ Gallon Air Reservoir: _____ Fail Open, _____ Fail Close
 X OTHER: _____

5 ALARM / TRAVEL SWITCHES

Model Number: _____

0 None
 1 2 SPDT Mechanical Switches (Use C-400 Positioner switches rated 10 A @ 125/250 VAC or 24 VDC)
 (Use S-800 Positioner switches rated 4 A @ 250 VAC or 24 VDC)
 2 4 SPDT Mechanical Switches (Use external housing switches rated 10 A @ 125/250 VAC or 0.5 A @ 125 VDC)
 7 2 SPDT Solid State Proximity Switches
 (Use C-400 Positioner rated 0.3A @ 125 VAC or VDC)
 8 4 SPDT Solid State Proximity Switches
 (Use external housing switches rated 0.3 A @ 125 VAC or VDC)
 X OTHER: _____

TYPE K Dwg No: _____

Approx Weight: _____ lbs. ea. uncrated

SELECTED FIGURE NO: TK- _____
Code Item: <u>1</u> <u>2</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u> <u>11</u>