KR-150 Regulator Specifications
Table of Contents

2. Specifications and Data Sheet
3. Configuration Overview
4. Regulator with Manual Operator Installation Drawing
5. Regulator with Failsafe Air Operator Installation Drawing
6. Regulator with Failsafe Hydraulic Operator Installation Drawing
7. Regulator with Hydraulic Pilot Operator Installation Drawing
8. High Pressure Low Deadband Regulator with Manual Operator Installation Drawing
9. High Pressure Low Deadband Regulator with High Torque Failsafe Air Operator Installation Drawing
10. High Pressure Low Deadband Regulator with Failsafe Hydraulic Operator Installation Drawing
11. Internal Override Bypass Options Installation Drawing
12. General Assembly Overview
13. L and H Model Configurations Assembly Drawing
14. D and W Model Configurations Assembly Drawing
15. P Model Configuration Assembly Drawing
16. Failsafe Air and Hydraulic Operators Assembly Drawing
17. High Pressure Low Deadband Adjustment Head Assembly Drawing
18. High Pressure Low Deadband Manual Operator Assembly Drawing
19. High Pressure Low Deadband Failsafe Air Operator Assembly Drawing
20. High Pressure Low Deadband Failsafe Hydraulic Operator Assembly Drawing
21. Internal Override Bypass Direct Operation Assembly Drawing
22. Internal Override Bypass with SV-25 Assembly Drawing
23. Internal Override Bypass with SVx-25 Assembly Drawing

All PacSeal Hydraulics' KR Pressure Regulators are designed with ShearFlo® metal-to-metal sealing technology. ShearFlo® sealing technology features:

- High cycle life and anti-wear design is suitable for critical service applications, including contaminated fluids.
- Leak proof, contaminant resistant metal-to-metal seal is accomplished by lapping and polishing hardened stainless steel sealing elements to exacting standards of finish and flatness.
- The sealing elements are spring preloaded and pressure energized, which maintains contact between the two sealing surfaces at all times.

All KR Regulators are tested to PacSeal's strict quality control standards to ensure proper function and reliability. Every ShearFlo® sealing component in a repair kit is inspected to ensure trouble-free performance after field maintenance and repair.

PacSeal Hydraulics' KR Pressure Regulators serve as pressure reducing and regulating valves to maintain system pressure at a desired value (set pressure) which is below that of the supply pressure.

The operator controls the outlet pressure by modulating the compression of springs that act on a pressurized piston. This in turn balances the hydraulic load inside the body. The operator options are as follows:

- Manual
- Failsafe Air Motor with Manual Override
- Failsafe Hydraulic Motor with Manual Override
- Hydraulic Pilot

The internal override bypass operator provides a lean solution for tight space applications by allowing full accumulator pressure to be supplied downstream of the regulator without a dedicated 4-way bypass valve in the hydraulic circuit.

NOTE: To prevent hammering, the downstream hydraulic circuit must have adequate flow; such that the pipe/hose diameter matches that of the KR-150 outlet. To safeguard this further, an accumulator is recommended to be used downstream of the regulator's outlet.

General Specifications	
Supply Port Size	1 in. NPT or SAE ORB (2X)
Outlet Port Size	1-1/2 in. NPT or SAE ORB
Vent Port Size	1 in. NPT or SAE ORB (2X)
Working Pressure Options (Liquid)	3000 or 5000 psi
Regulated Outlet Pressure Options	See Product Configurator
Cv Factor Outlet	21
Cv Factor Vent	4.1
Rated Flow	200 gpm
Temperature Rating (Regulators and Failsafe Air Motors)	-40° to 250°F
Fluid Media	Hydraulic Oil or lubricated water[1]
Weight	See installation drawings
Materials	
ShearFlo Sealing Components (i.e. Rotor and Seal Rings)	400 series hardened Stainless Steel[1]
Body	400 series Stainless Steel
Flanges and Operators	Carbon Steel
Hardware	Coated Carbon Steel
O-rings	Buna-N (N), Viton (V), or EPR (E)
Backup Rings	Teflon

[1] *For water based media, specail alloy seal rings may be required for optimum performance and durability - Contact PacSeal for details*

Model	Supply Pressure [psi]	Regulated Outlet Pressure [psi]	Deadband Range [psi]*
L	3000/5000	300-1800	100-150
D	5000/6000	500-3000	200-300
H	5000/6000	500-3300	100-150
W	6000	700-4500	200-300
P	3000/5000/ 6000	50-6000	0-100

*Deadband is the difference between the set pressure and the actual outlet pressure that triggers the KR to open or vent. The deadband will vary depending on factors that influence the friction between the seal rings and flow plates, such as: type of fluid and lubricity properties, temperature, differential pressure between supply and regulated outlet, seal ring and flow plate wear condition, and lastly interpretation influenced by gauge sensitivity.
The Reset Range or Hysteresis is within +/- 150 psi for all models.

Model Number Configurator

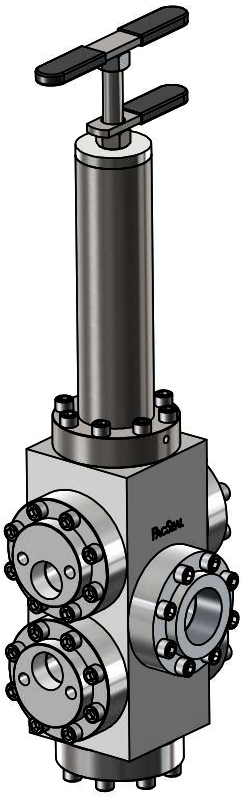
Basic Model	Ports	Supply Pressure	Regulated Outlet Pressure: Rated Range[2]	Regulated Outlet Pressure: Deadband	Operator	Internal Override Bypass
KR-150	**N** NPT	**3** 3000 psi	**L** 300-1800 psi	100-150 psi	**M** Manual	**-IO** Direct
	S SAE	**5** 5000 psi			**FSA** Failsafe Air Motor	**-IS** with SV-25
	C Code-61[1]	**5** 5000 psi	**D** 500-3000 psi	200-300 psi	**FSH** Failsafe Hydraulic Motor	**-IX** with SVx-25
	D Code-62[1]	**6** 6000 psi	**H** 500-3300 psi	100-150 psi		
		6 6000 psi	**W** 700-4500 psi	200-300 psi		*Leave blank if N/A*
		3, 5, or 6	**P**[3] 50-6000 psi	0-100 psi	**H** Hydraulic Pilot	

Notes:

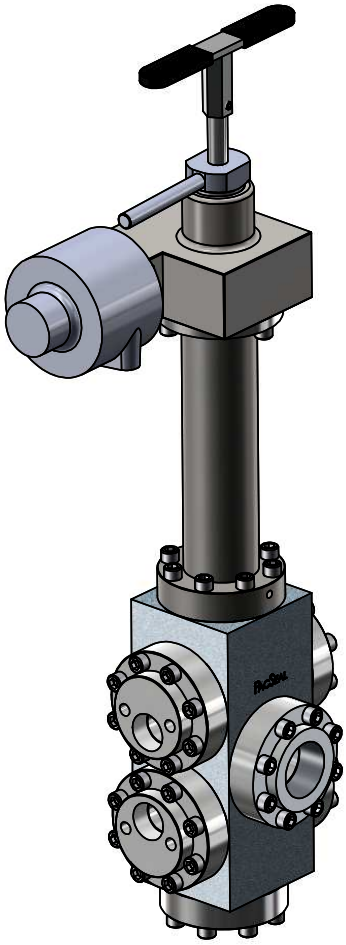
[1] *Not a standard option - special order only*

[2] *Rated Regulated Outlet Pressure cannot exceed supply pressure.*

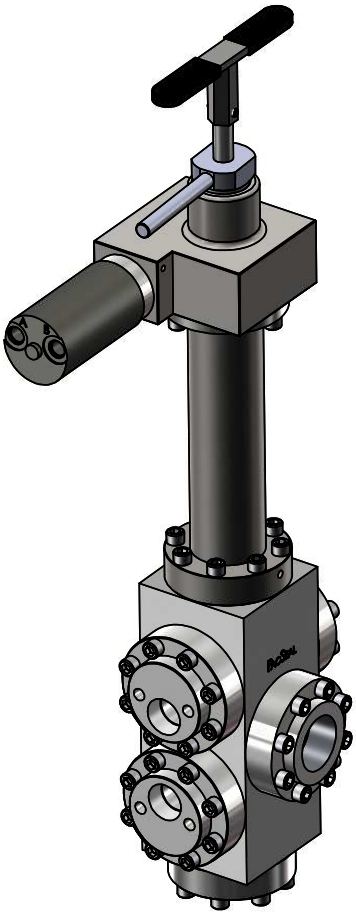
[3] *Maximum rated regulated outlet pressure matches the supply pressure for a regulator with the Hydraulic Pilot operator*



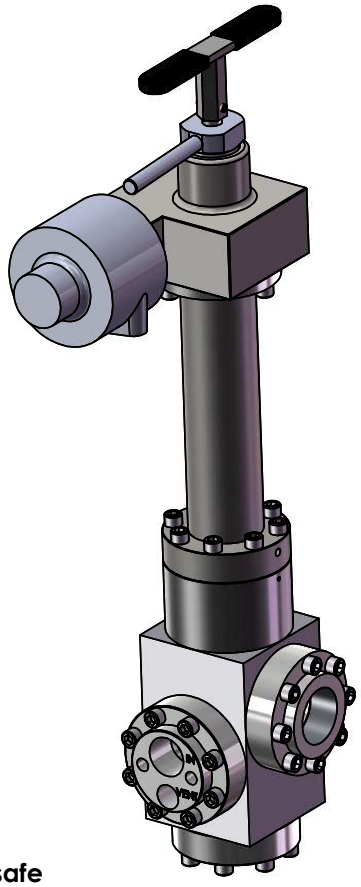
KR-150 Regulator with Standard Ports (NPT/SAE) and Manual Operator
Example: KR-150N5DM



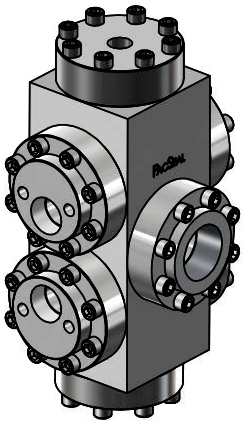
KR-150 Regulator with High Pressure Low Deadband and Failsafe Air Motor Operator
Example: KR-150S3LFSA



KR-150 Regulator with Failsafe Hydraulic Motor Operator
Example: KR-150N5HFSH



KR-150 Regulator with Direct Internal Override
Example: KR-150S3LM-IO



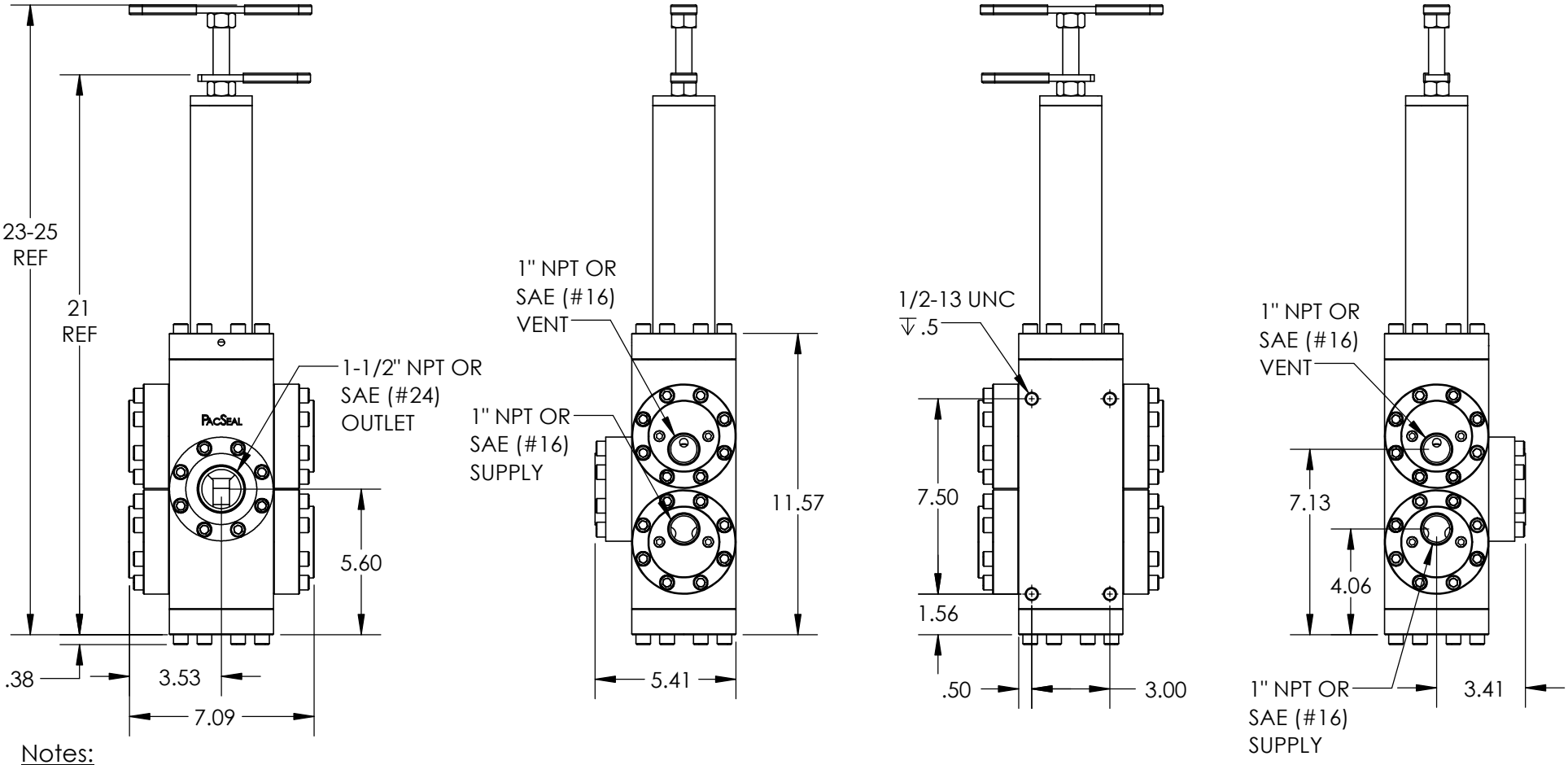
Hydraulic Pilot Operator
Example: KR-150N5PH

PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE: **Configuration Overview**

SIZE: A | REV: 1



Notes:

1. Adjustment handle can be threaded in or out to increase or decrease compression on the spring and thus on the regulated outlet pressure.
2. Model configuration (Regulated Outlet Pressure) options: L, D
3. Weight - 72 lb.
4. All dimensions are consistent for KR-150 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

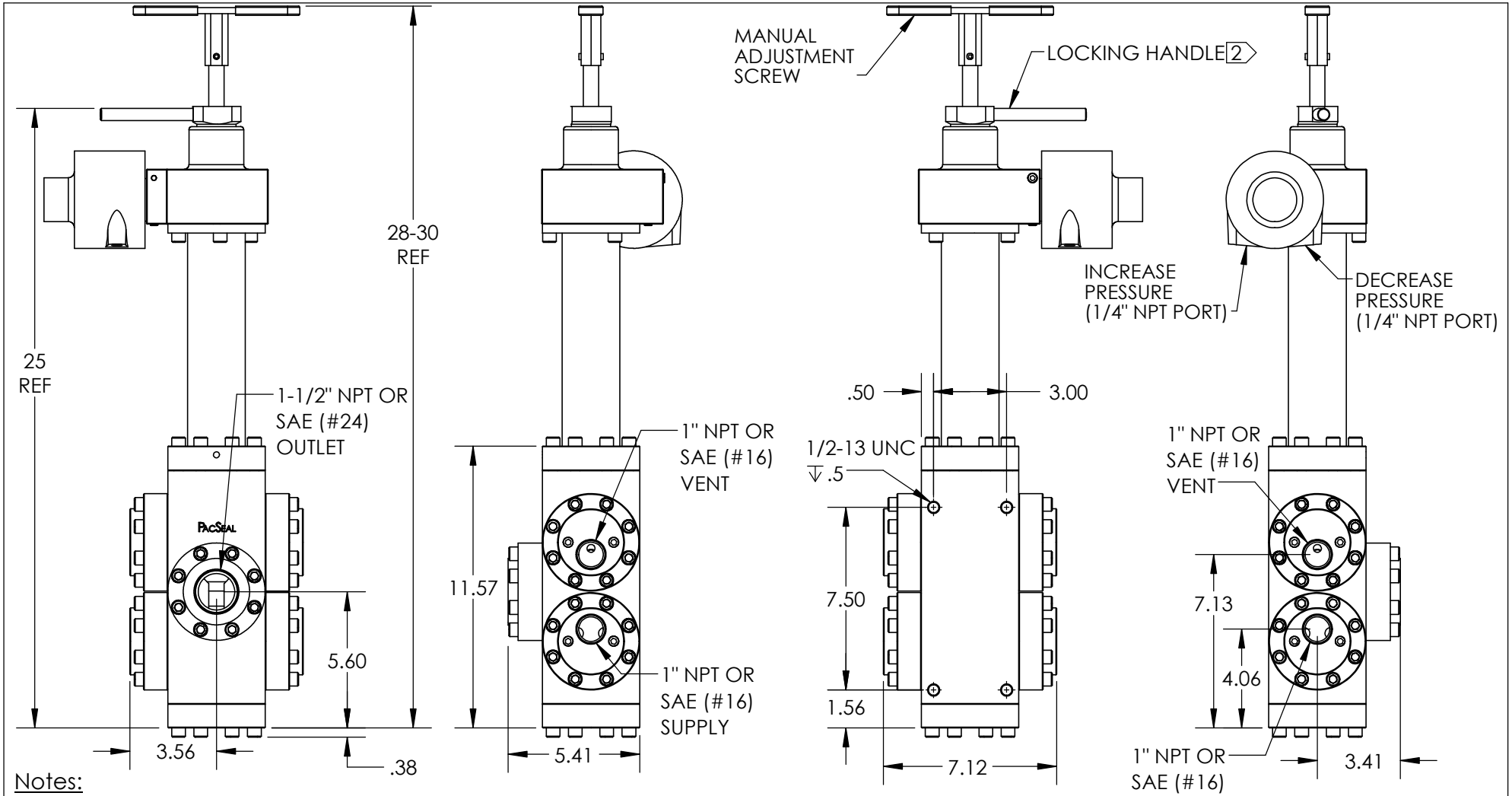
PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal Hydraulics IS PROHIBITED.

TITLE
KR-150 Regulator w/ Manual Operator (NPT/SAE) Installation Drawing

SIZE A | REV 1

5 4 3 2 1



Notes:

1. Failsafe Air Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
2. Turn locking handle clockwise to lock for failsafe remote operation. Turn locking handle counter-clockwise to unlock for manual operation/override.
3. Recommended Air Supply - 100 to 130 PSI
4. Model configuration (Regulated Outlet Pressure) options: L, D
5. Weight - 96 lb.
6. All dimensions are consistent for KR-150 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

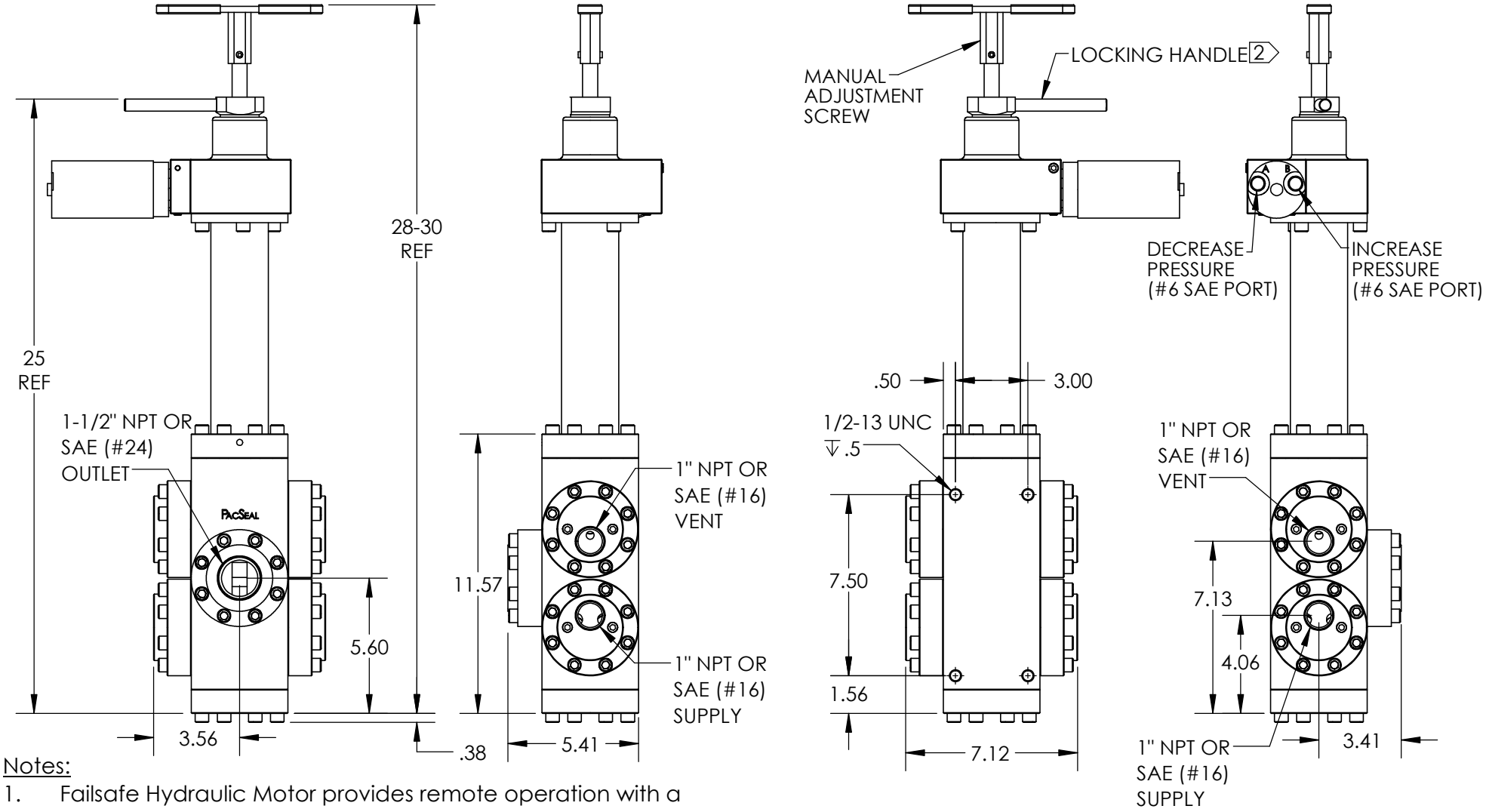
PacSeal Hydraulics

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal Hydraulics IS PROHIBITED.

TITLE **KR-150 Regulator w/ Failsafe Air Operator (NPT/SAE) Installation Drawing**

SIZE A | REV 1

5 4 3 2 1



Notes:

1. Failsafe Hydraulic Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
2. Turn locking handle clockwise to lock for failsafe remote operation. Turn locking handle counter-clockwise to unlock for manual operation/override.
3. Max Hydraulic Motor Supply Pressure - 1500 psi
4. Model configuration (Regulated Outlet Pressure) options: L, D
5. Weight - 94 lb.
6. All dimensions are consistent for KR-150 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

PACSEAL HYDRAULICS

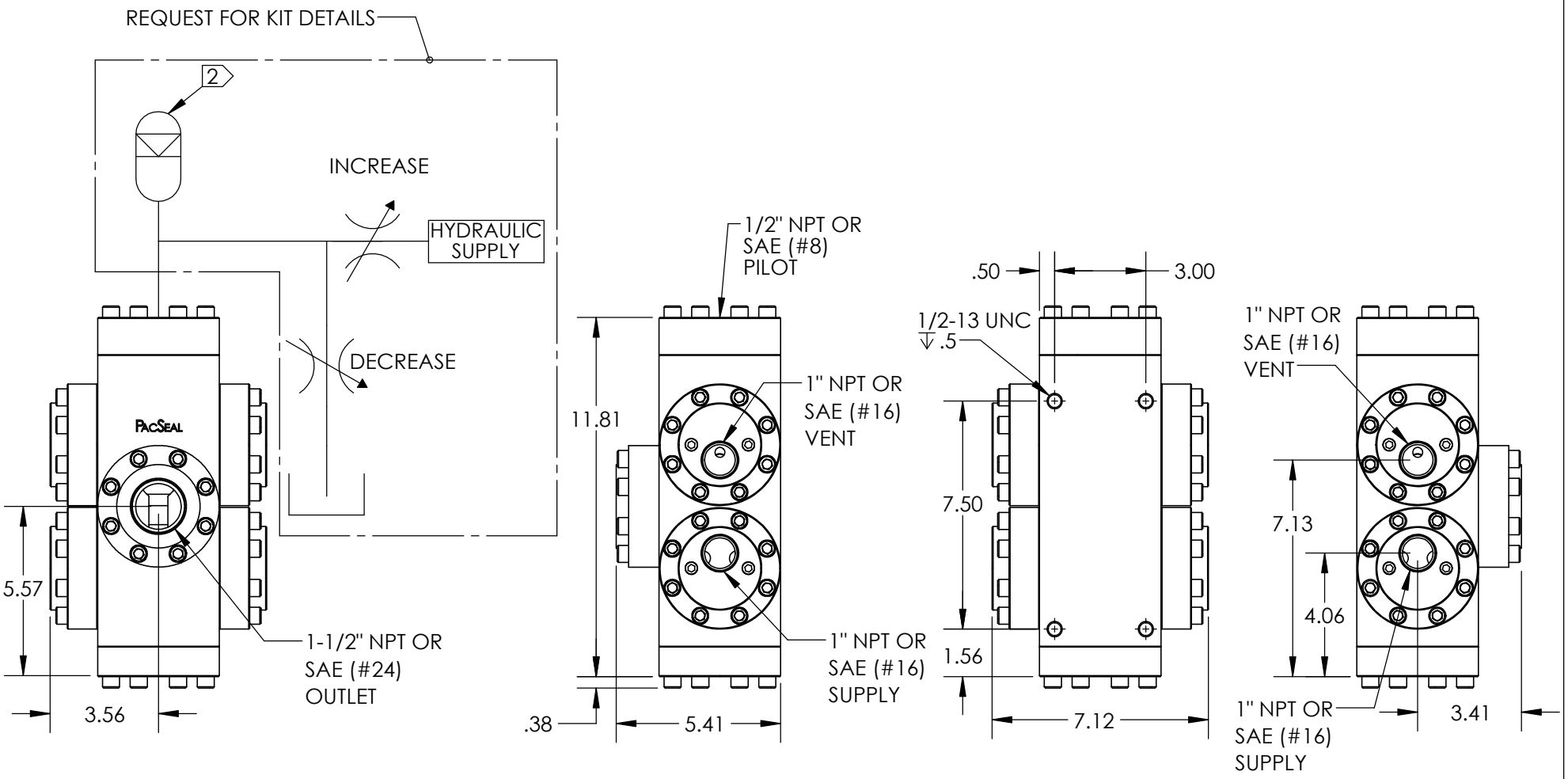
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal Hydraulics IS PROHIBITED.

TITLE **KR-150 Regulator w/ Failsafe Hydarulic Operator (NPT/SAE) Installation Drawing**

SIZE **A** | REV **1**

5 4 3 2 1



Notes:

1. A remote, variable hydraulic signal operates on a piston with a 1:1 ratio which allows for the most precisely controlled outlet pressures of all options. Loss of hydraulic pilot pressure will result in the outlet venting to tank.
2. Minimum 1 Pint Accumulator is recommended for operation.
3. Model configuration (Regulated Outlet Pressure) option: P
4. Weight - 61 lb.
5. All dimensions are consistent for KR-150 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

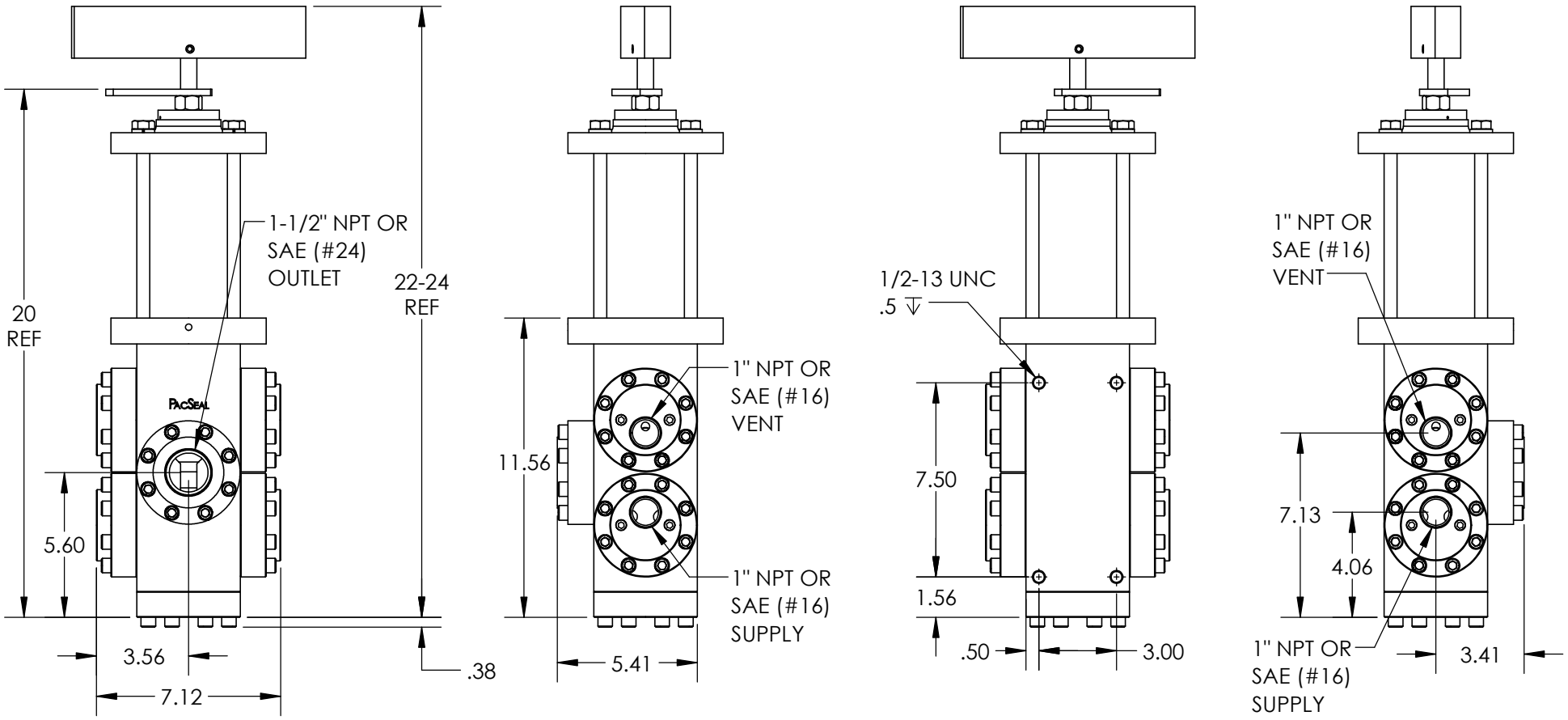
PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE **KR-150 Regulator w/ Hydraulic Pilot Operator (NPT/SAE) Installation Drawing**

SIZE A | REV 1

5 4 3 2 1



Notes:

1. Adjustment handle can be threaded in or out to increase or decrease compression on the spring and thus on the regulated outlet pressure.
2. Model configuration (Regulated Outlet Pressure) options: H (5000 psi supply) and W (6000 psi supply)
3. Weight - 96 lb.
4. All dimensions are consistent for KR-150 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

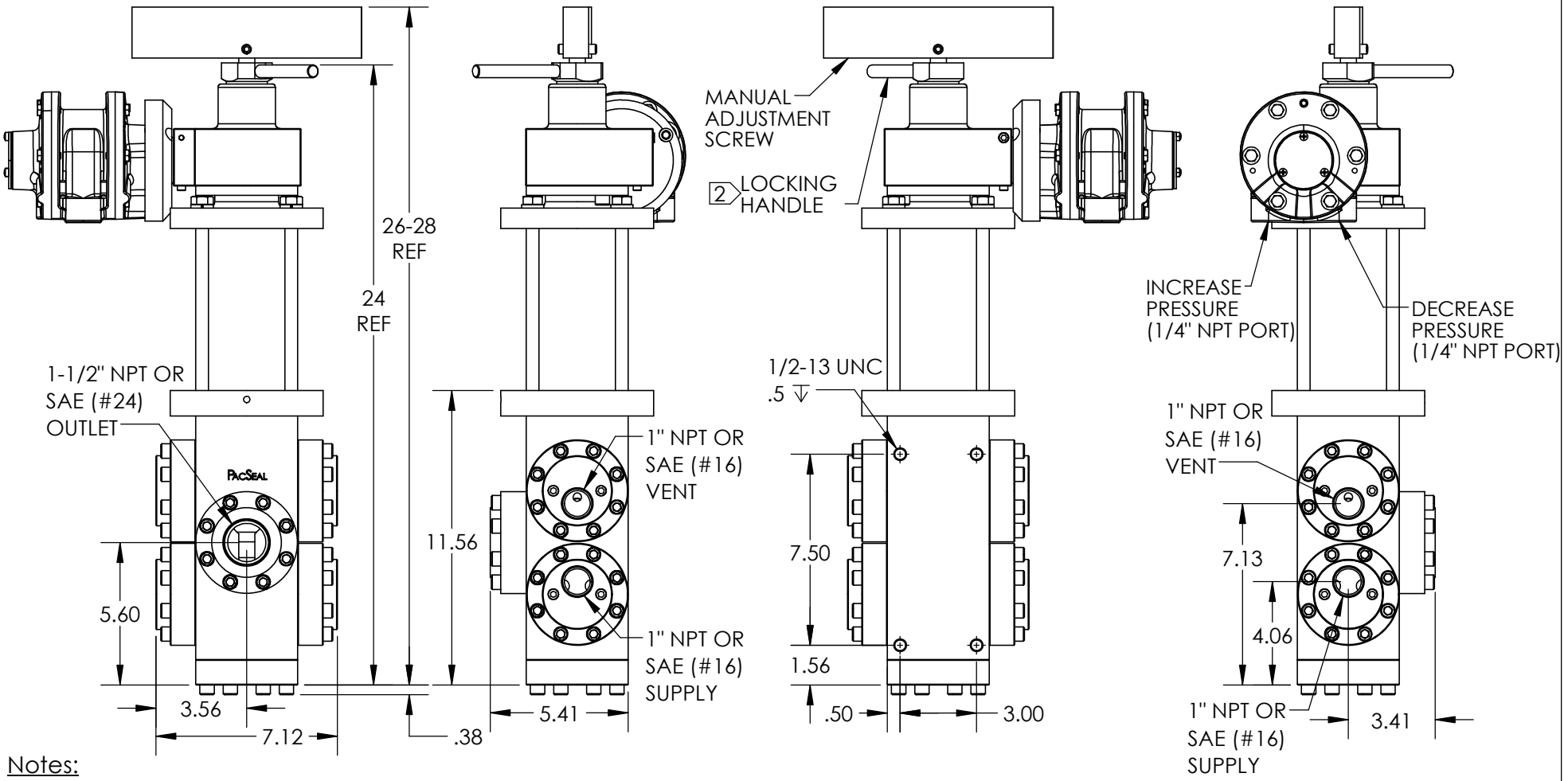
PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE **KR-150 High Pressure Low Deadband w/ Manual Operator Installation Drawing**

SIZE A | REV 1

5 4 3 2 1



Notes:

1. Failsafe Air Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
2. Turn locking handle clockwise to lock for failsafe remote operation. Turn locking handle counter-clockwise to unlock for manual operation/override.
3. Recommended air supply - 100 to 130 PSI
4. Model configuration (Regulated Outlet Pressure) option: H (5000 psi supply) and W (6000 psi)
5. Weight - 137 lb.
6. All dimensions are consistent for KR-150 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

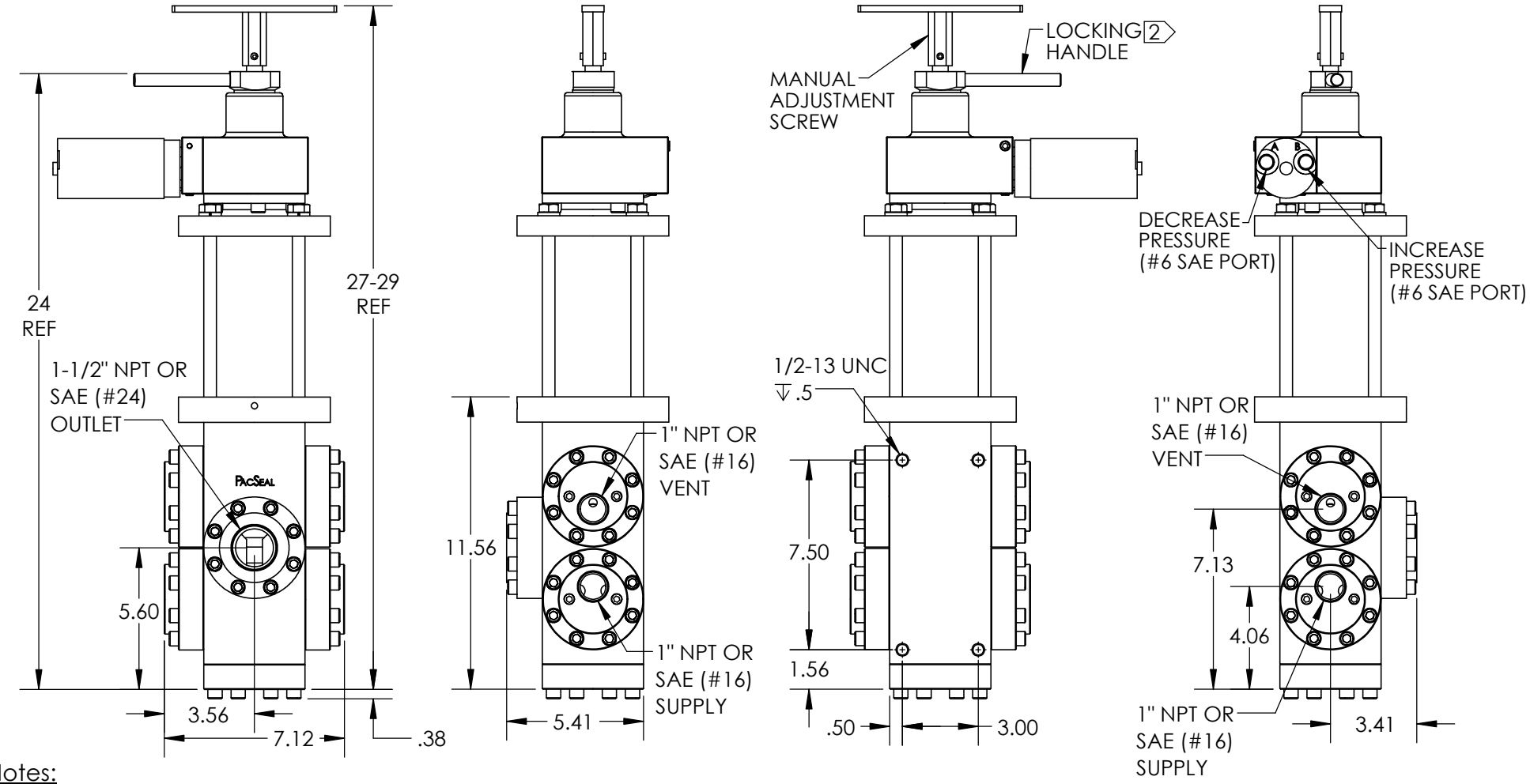
PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal Hydraulics IS PROHIBITED.

TITLE **KR-150 High Pressure Low Deadband Regulator w/ High Torque Failsafe Air Operator Installation Drawing**

SIZE **A** REV **1**

5 4 3 2 1



Notes:

1. Failsafe Hydraulic Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
2. Turn locking handle clockwise to lock for failsafe remote operation. Turn locking handle counter-clockwise to unlock for manual operation/override.
3. Max Hydraulic Motor Supply Pressure - 1500 psi
4. Model configuration (Regulated Outlet Pressure) option: H (5000 psi supply) and W (6000 psi supply).
5. Weight - 112 lb.
6. All dimensions are consistent for KR-150 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

PACSEAL HYDRAULICS

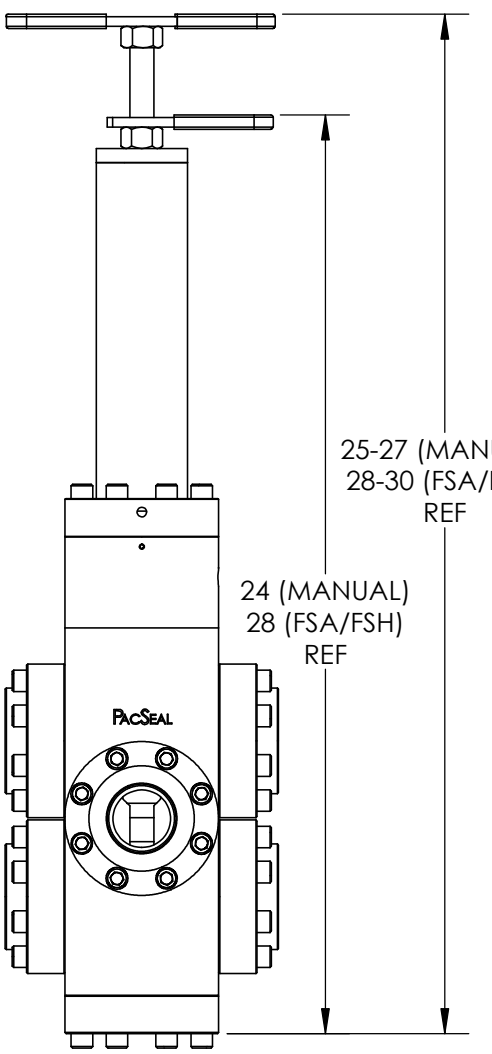
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

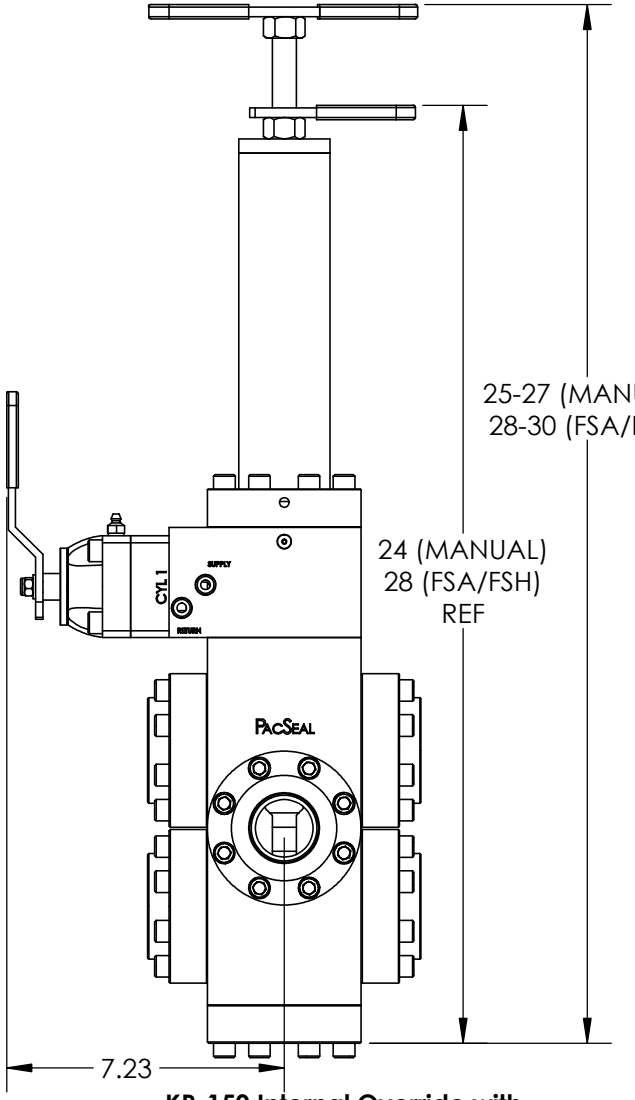
TITLE **KR-150 High Pressure Low Deadband Regulator w/ Failsafe Hydraulic Operator**

SIZE **A** | REV **1**

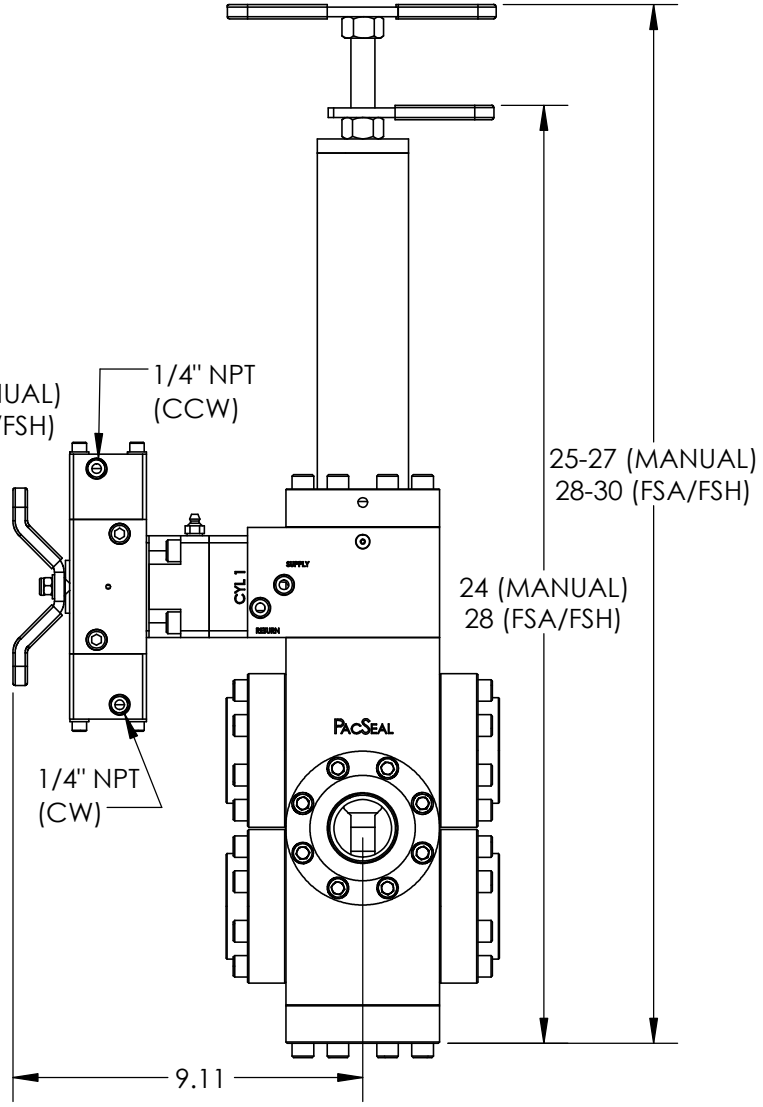
5 4 3 2 1



KR-150 Internal Override
Remote Pilot Operation (-IO)



KR-150 Internal Override with
1 SV-25 Open Center Pilot Valve (-IS)



KR-150 Internal Override with SVx-25
2 Open Center Pilot Air Actuated Valve (-IX)
(80-150 psi air inlet)
(3000 psi working pressure)

The I/O Bypass operator allows full accumulator pressure to be supplied downstream of the regulator without a dedicated 4-way bypass valve in the circuit. The over-ride bypass is accomplished by applying a pilot signal to the I/O operator which is equal to or greater than the accumulator pressure. The pilot pressure forces the piston/ seal container assembly to the full open position where supply pressure flows through the regulator to the output circuit. Releaving the pilot signal allows the regulator to return to the original set pressure.

Notes:
1. See SV-25 product information for further details
2. See SVx-25 product information for further details
3. Regulated outlet pressure options: L, D

PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

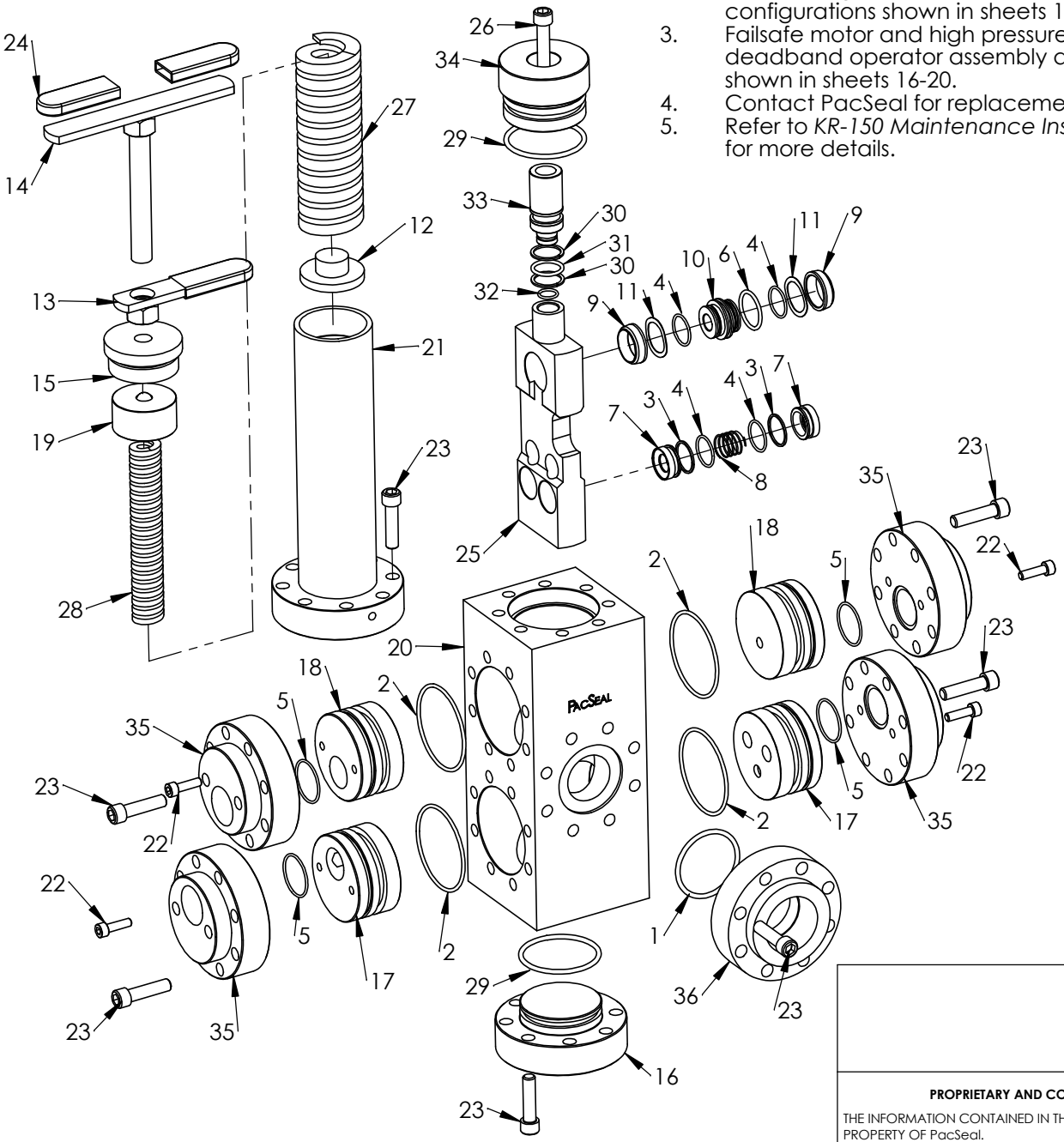
TITLE **Internal Override Options Installation Drawing**

SIZE **A** REV **1**

SHEET 11 OF 23

5 4 3 2 1

Notes:
1. KR-150 "D" Manual Regulator shown for illustration purposes.
2. All other regulated outlet pressure model configurations shown in sheets 13-15.
3. Failsafe motor and high pressure low deadband operator assembly drawings shown in sheets 16-20.
4. Contact PacSeal for replacement parts.
5. Refer to *KR-150 Maintenance Instructions* for more details.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1126	O-Ring	1
2	23-1263	O-Ring	4
3	23-1322	Backup Ring	4
4	23-1323	O-Ring	6
5	23-1325	O-Ring	4
6	23-1334	O-Ring	1
7	40-0014	Seal Ring, Supply	4
8	40-0110	Spring	2
9	40-0113	Seal Ring, Vent	2
10	40-0114	Valve, Cage	1
11	40-0115	Wave Spring	2
12	40-0134	Spring Plate	1
13	40-0135	Lock Handle	1
14	40-0136	Adjusting Screw & Handle	1
15	40-0140	Plug, Adjustment Head	1
16	40-0197	Flange, Lower	1
17	40-0285	Flow Plate, Supply	2
18	40-0286	Flow Plate, Vent	2
19	40-0300	Spring Guide	1
20	40-0323	Body	1
21	40-0383	Ajustment Head	1
22	50-0066	Bolt	8
23	50-0069	Bolt	56
24	50-0239	Grip, Handle	3
25	Note 2	Seal Container	1
26	Note 2	Bolt	1
27	Note 2	Spring, Outer	1
28	Note 2	Spring, Inner	1
29	Note 2	O-Ring	2
30	Note 2	Backup Ring	2
31	Note 2	O-Ring	1
32	Note 2	O-Ring	1
33	Note 2	Piston, Manual	1
34	Note 2	Piston Guide, Manual	1
35	Note 4	Flange, Inlet & Vent	4
36	Note 4	Flange, Outlet	1

PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal Hydraulics IS PROHIBITED.

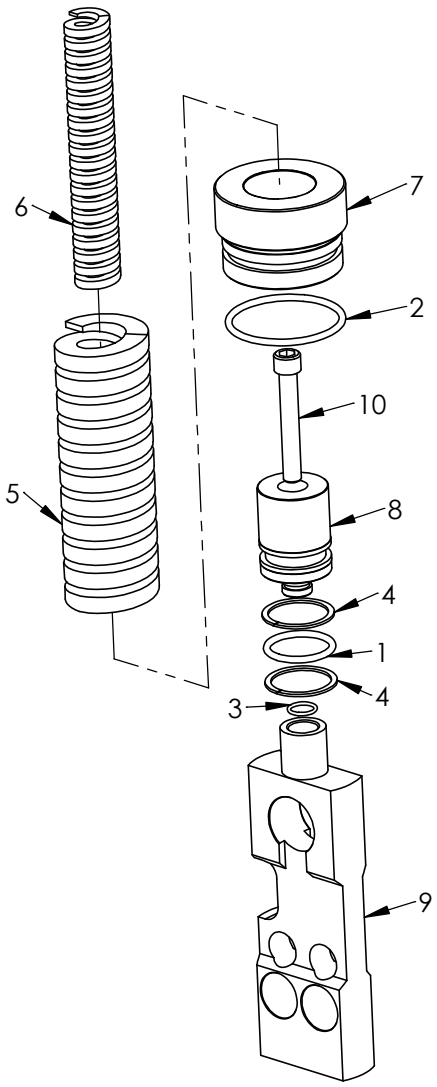
TITLE
KR-150 General Assembly Overview

SIZE **A** | REV **1**

5 4 3 2 1

Notes:

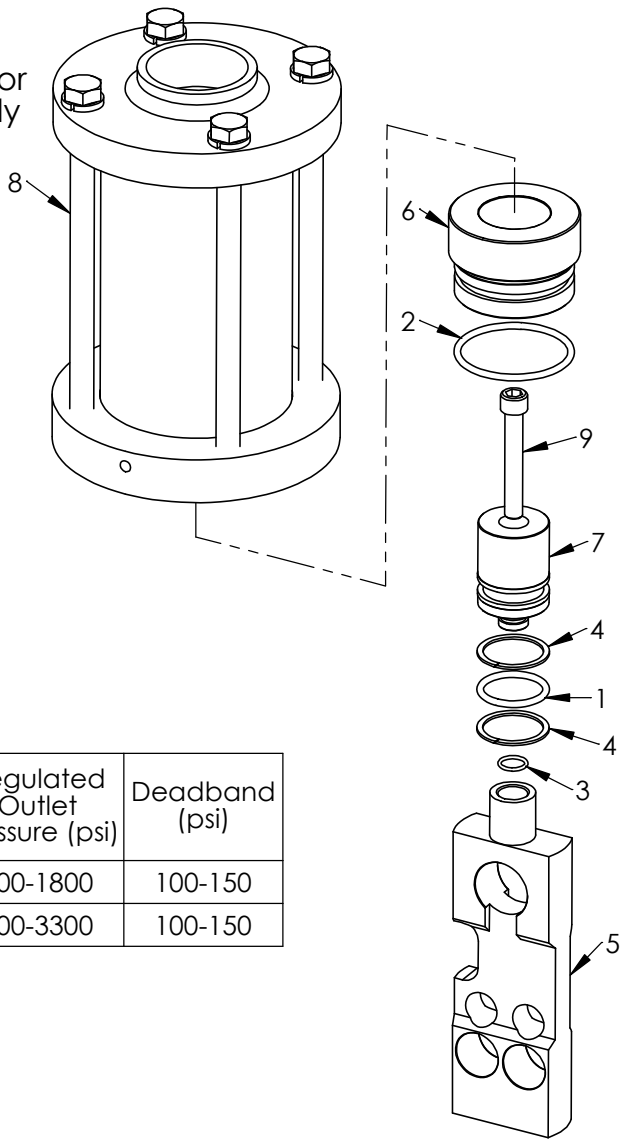
1. The listed components vary based on Supply and Regulated Outlet Pressures, while all other regulator components (shown in sheet 12 "General Assembly Overview") are shared.



KR-150 L Regulator

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1124	O-Ring	1
2	23-1319	O-Ring	1
3	23-1333	O-Ring	1
4	23-1342	Backup Ring	2
5	40-0143	Spring, Outer	1
6	40-0144	Spring, Inner	1
7	40-1351	Piston Guide, L	1
8	40-1352	Piston, L	1
9	40-0714	Seal Container	1
10	50-0331	Bolt	1

Model	Supply Pressure (psi)	Regulated Outlet Pressure (psi)	Deadband (psi)
L	3000/5000	300-1800	100-150
H	5000/6000	500-3300	100-150



KR-150 H Regulator
With High Pressure Low Deadband Adjustment Head

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1124	O-Ring	1
2	23-1319	O-Ring	1
3	23-1333	O-Ring	1
4	23-1342	Backup Ring	2
5	40-0714	Seal Container	1
6	40-1351	Piston Guide, L	1
7	40-1352	Piston, L	1
8	40-2927	High Pressure Low Deadband Adj. Head	1
9	50-0331	Bolt	1

PACSEAL HYDRAULICS

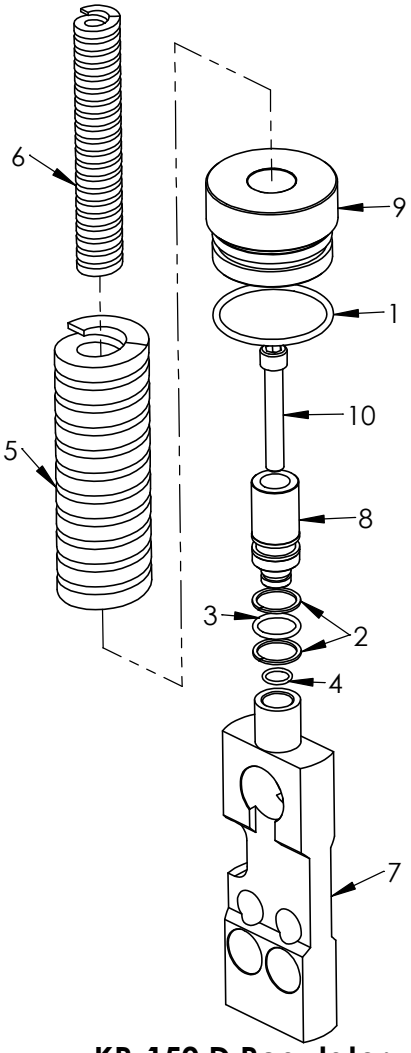
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE: **L and H Model Configurations Assembly Drawing**

SIZE: A | REV: 1

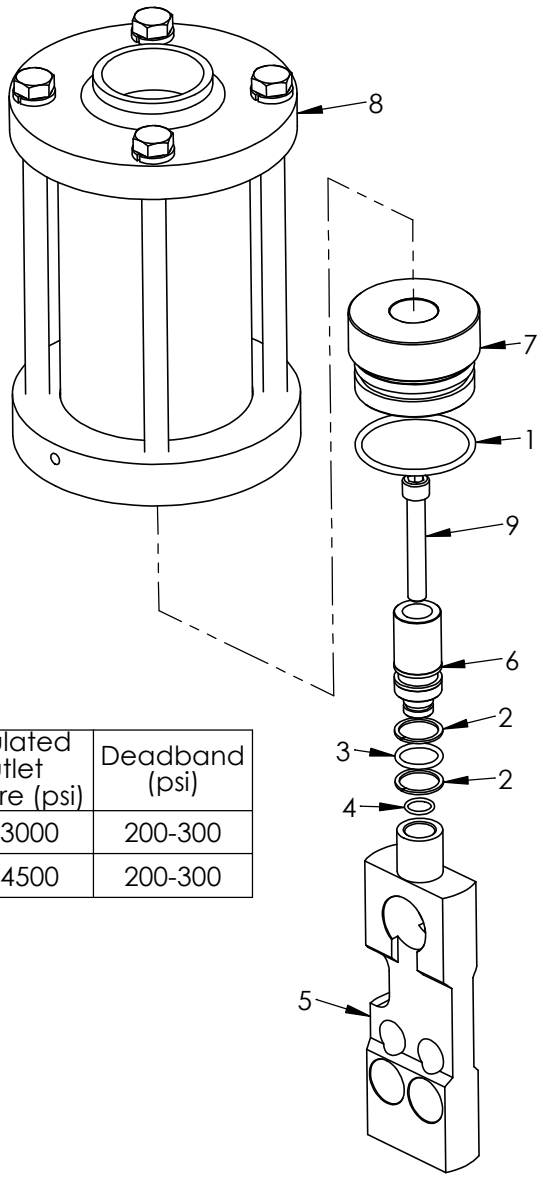
Notes:

1. The listed components vary based on Supply and Regulated Outlet Pressures, while all other regulator components (shown in sheet 12 "General Assembly Overview") are shared.



KR-150 D Regulator

Model	Supply Pressure (psi)	Regulated Outlet Pressure (psi)	Deadband (psi)
D	5000/6000	500-3000	200-300
W	6000	700-4500	200-300



KR-150 W Regulator

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1319	O-Ring	1
2	23-1331	Backup Ring	2
3	23-1332	O-Ring	1
4	23-1333	O-Ring	1
5	40-0143	Spring, Outer	1
6	40-0144	Spring, Inner	1
7	40-0714	Seal Container	1
8	40-0717	Piston, D	1
9	40-0718	Piston Guide, D	1
10	50-0331	Bolt	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1319	O-Ring	1
2	23-1331	Backup Ring	2
3	23-1332	O-Ring	1
4	23-1333	O-Ring	1
5	40-0714	Seal Container	1
6	40-0717	Piston, D	1
7	40-0718	Piston Guide, D	1
8	40-2654	High Pressure Low Deadband Adj. Head	1
9	50-0331	Bolt	1

PACSEAL HYDRAULICS

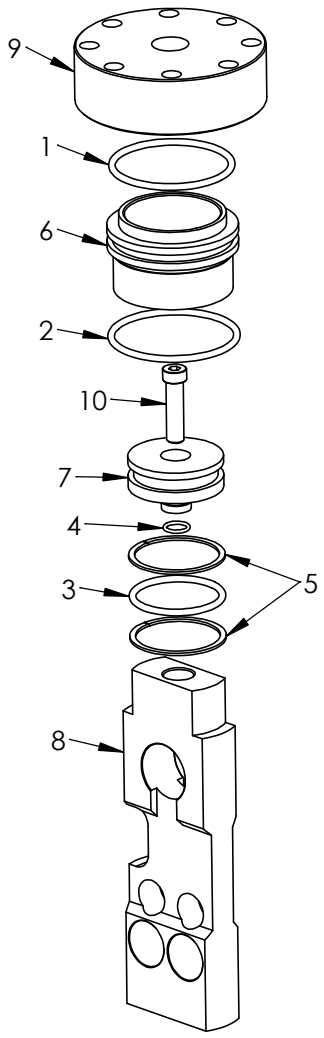
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE **D and W Model Configurations Assembly Drawing**

SIZE **A** REV **1**

Notes:

1. The listed components vary based on Supply and Regulated Outlet Pressures, while all other regulator components (shown in sheet 12 "General Assembly Overview") are shared.



KR-150 P Regulator (Hydraulic Pilot)

Model	Supply Pressure (psi)	Regulated Outlet Pressure (psi)	Deadband (psi)
P	3000/5000/6000	50-6000	0-100

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1128	O-Ring	1
2	23-1327	O-Ring	1
3	23-1330	O-Ring	1
4	23-1343	O-Ring	1
5	23-1413	Backup Ring	2
6	40-0318	Piston Guide	1
7	40-0319	Piston, Hydraulic	1
8	40-0320	Seal Container	1
9	40-0324	Hydraulic Head	1
10	50-0068	Bolt	1

PacSeal Hydraulics

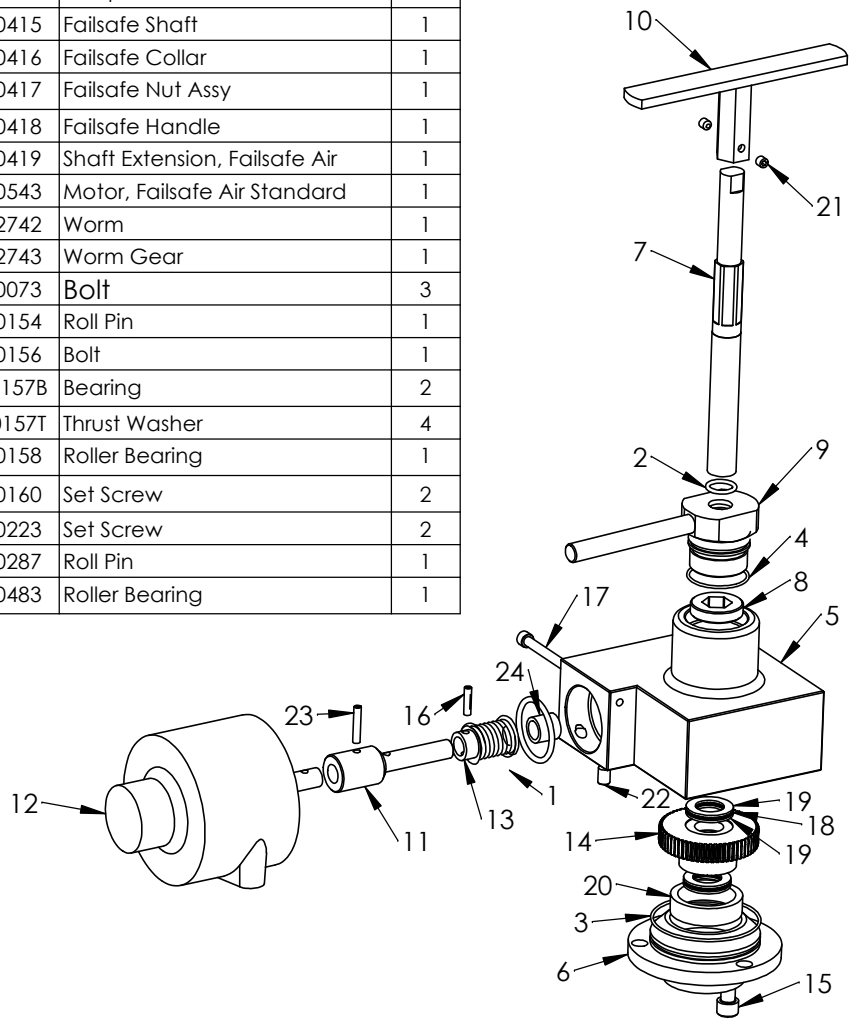
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE: **P Model Configuration Assembly Drawing**

SIZE: A | REV: 1

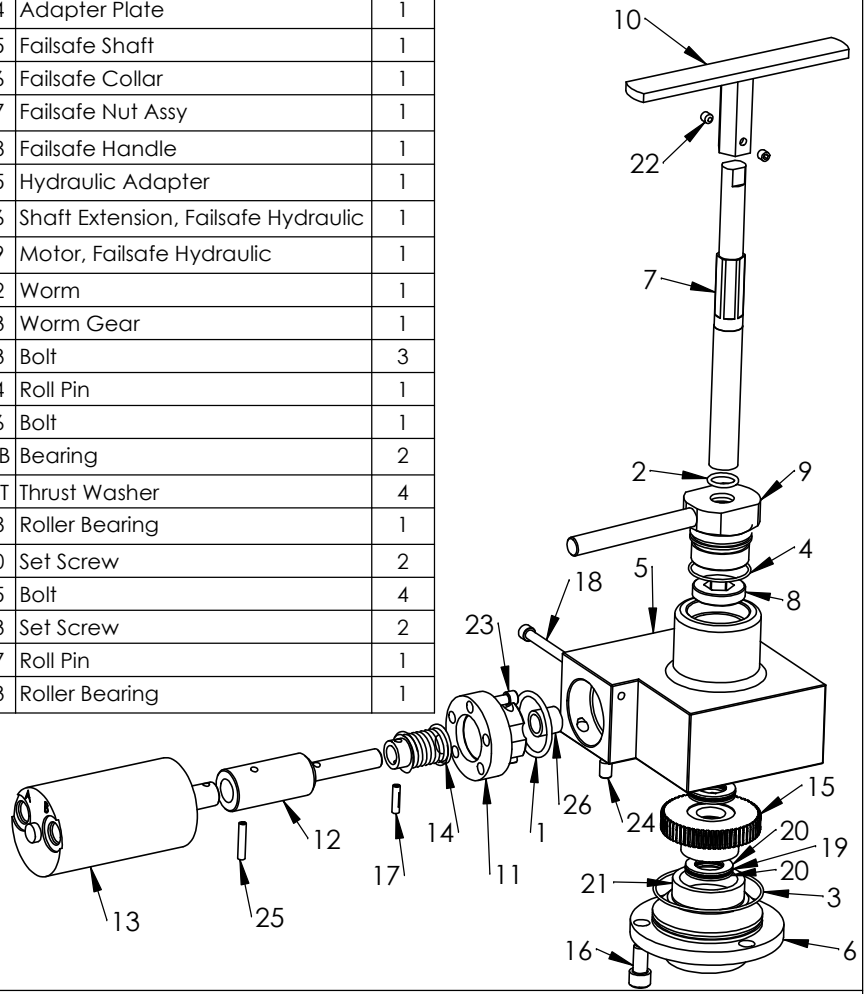
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	23-1123	O-Ring	1
2	23-1385	O-Ring	1
3	23-1404	O-Ring	1
4	23-1405	O-Ring	1
5	40-0413	Failsafe Body	1
6	40-0414	Adapter Plate	1
7	40-0415	Failsafe Shaft	1
8	40-0416	Failsafe Collar	1
9	40-0417	Failsafe Nut Assy	1
10	40-0418	Failsafe Handle	1
11	40-0419	Shaft Extension, Failsafe Air	1
12	40-0543	Motor, Failsafe Air Standard	1
13	40-2742	Worm	1
14	40-2743	Worm Gear	1
15	50-0073	Bolt	3
16	50-0154	Roll Pin	1
17	50-0156	Bolt	1
18	50-0157B	Bearing	2
19	50-0157T	Thrust Washer	4
20	50-0158	Roller Bearing	1
21	50-0160	Set Screw	2
22	50-0223	Set Screw	2
23	50-0287	Roll Pin	1
24	50-0483	Roller Bearing	1

Failsafe Air Operator (40-1564)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	23-1123	O-Ring	1
2	23-1385	O-Ring	1
3	23-1404	O-Ring	1
4	23-1405	O-Ring	1
5	40-0413	Failsafe Body	1
6	40-0414	Adapter Plate	1
7	40-0415	Failsafe Shaft	1
8	40-0416	Failsafe Collar	1
9	40-0417	Failsafe Nut Assy	1
10	40-0418	Failsafe Handle	1
11	40-0715	Hydraulic Adapter	1
12	40-0716	Shaft Extension, Failsafe Hydraulic	1
13	40-0719	Motor, Failsafe Hydraulic	1
14	40-2742	Worm	1
15	40-2743	Worm Gear	1
16	50-0073	Bolt	3
17	50-0154	Roll Pin	1
18	50-0156	Bolt	1
19	50-0157B	Bearing	2
20	50-0157T	Thrust Washer	4
21	50-0158	Roller Bearing	1
22	50-0160	Set Screw	2
23	50-0215	Bolt	4
24	50-0223	Set Screw	2
25	50-0287	Roll Pin	1
26	50-0483	Roller Bearing	1

Failsafe Hydraulic Operator (40-1641)



PacSeal Hydraulics

PROPRIETARY AND CONFIDENTIAL

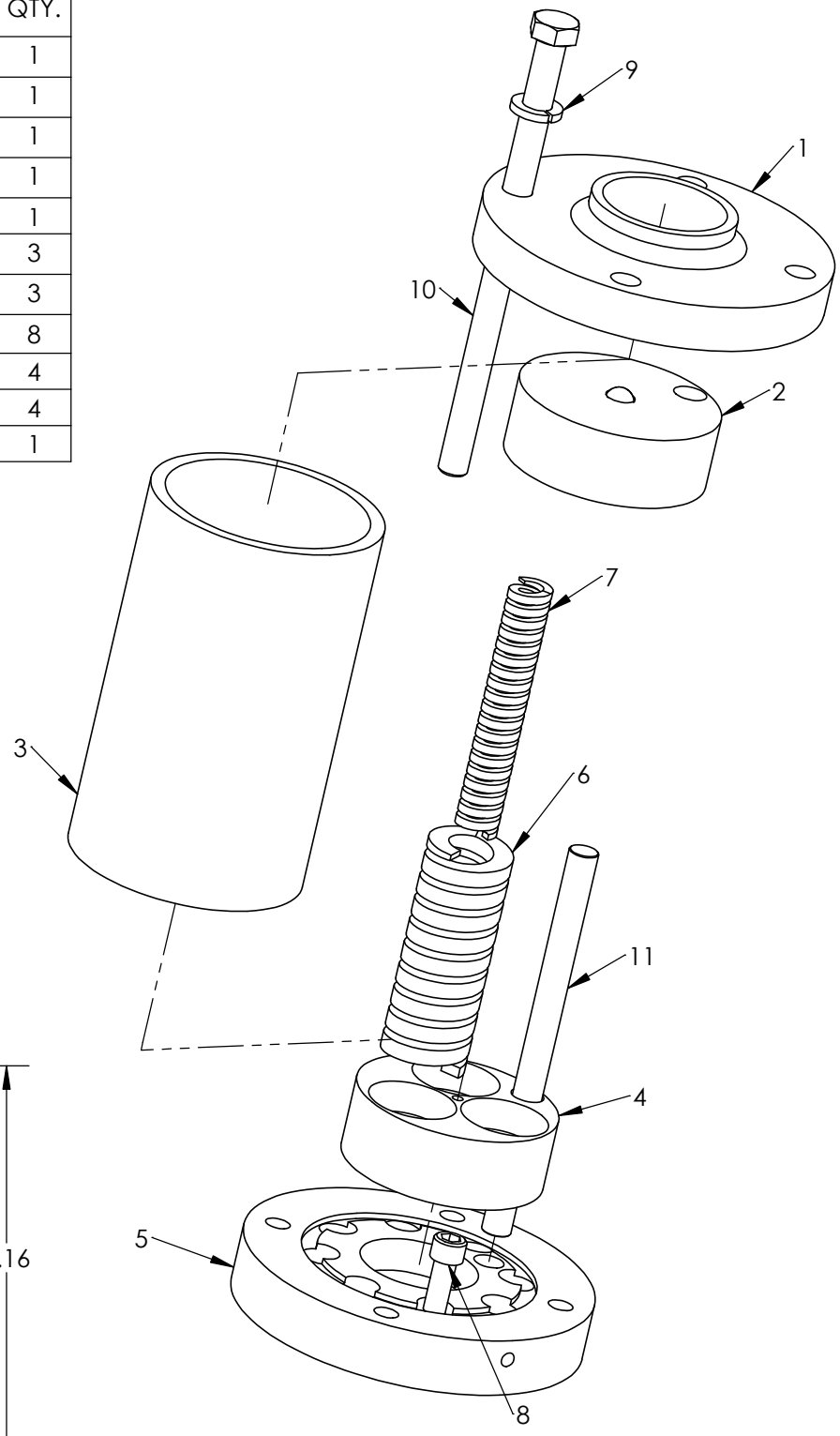
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

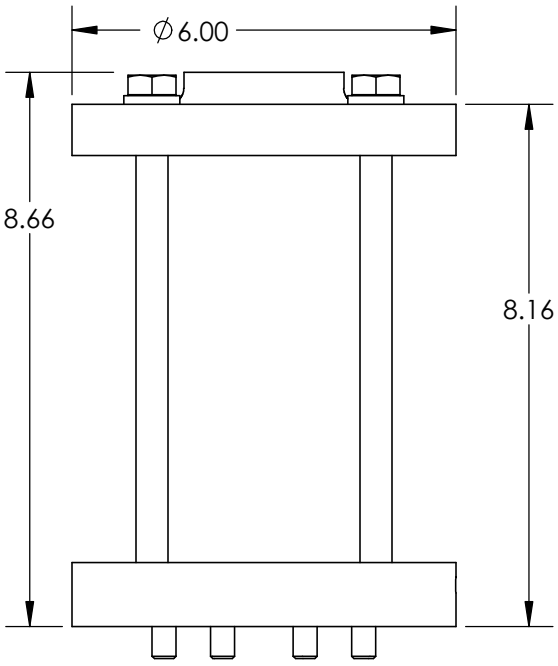
TITLE **Failsafe Air and Hydraulic Operators Assembly Drawing**

SIZE **A** REV **1**

5 4 3 2 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	40-2654	Plate, Upper Actuator	1
2	40-2655	Plate, Upper Spring	1
3	40-2656	Cylinder, Actuator	1
4	40-2657	Plate, Lower Spring	1
5	40-2658	Plate, Lower Actuator	1
6	40-2659	Spring, Outer	3
7	40-2660	Spring, Inner	3
8	50-0072	Bolt	8
9	50-0104	Lock Washer	4
10	50-0434	Bolt	4
11	50-0435	Rod	1





KIT PART NUMBER
40-2927

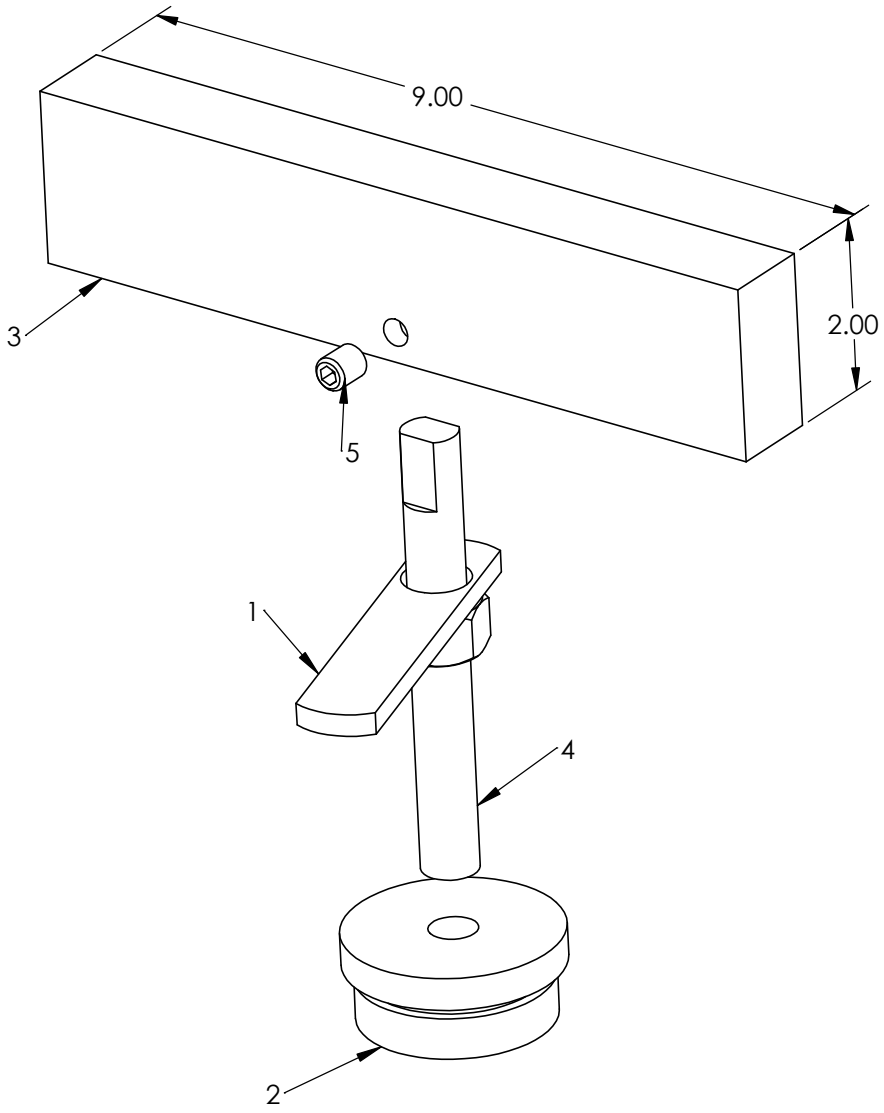
PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE **High Pressure Low Deadband Adjustment Head Assembly Drawing**

SIZE **A** | REV **1**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	40-0135	Lock Handle	1
2	40-0140	Plug, Adjustment Head	1
3	40-3237	Handle, Fail Safe HP	1
4	40-3414	Adjusting Rod	1
5	50-0482	Set Screw	2



KIT PART NUMBER
40-3558

PacSeal Hydraulics

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

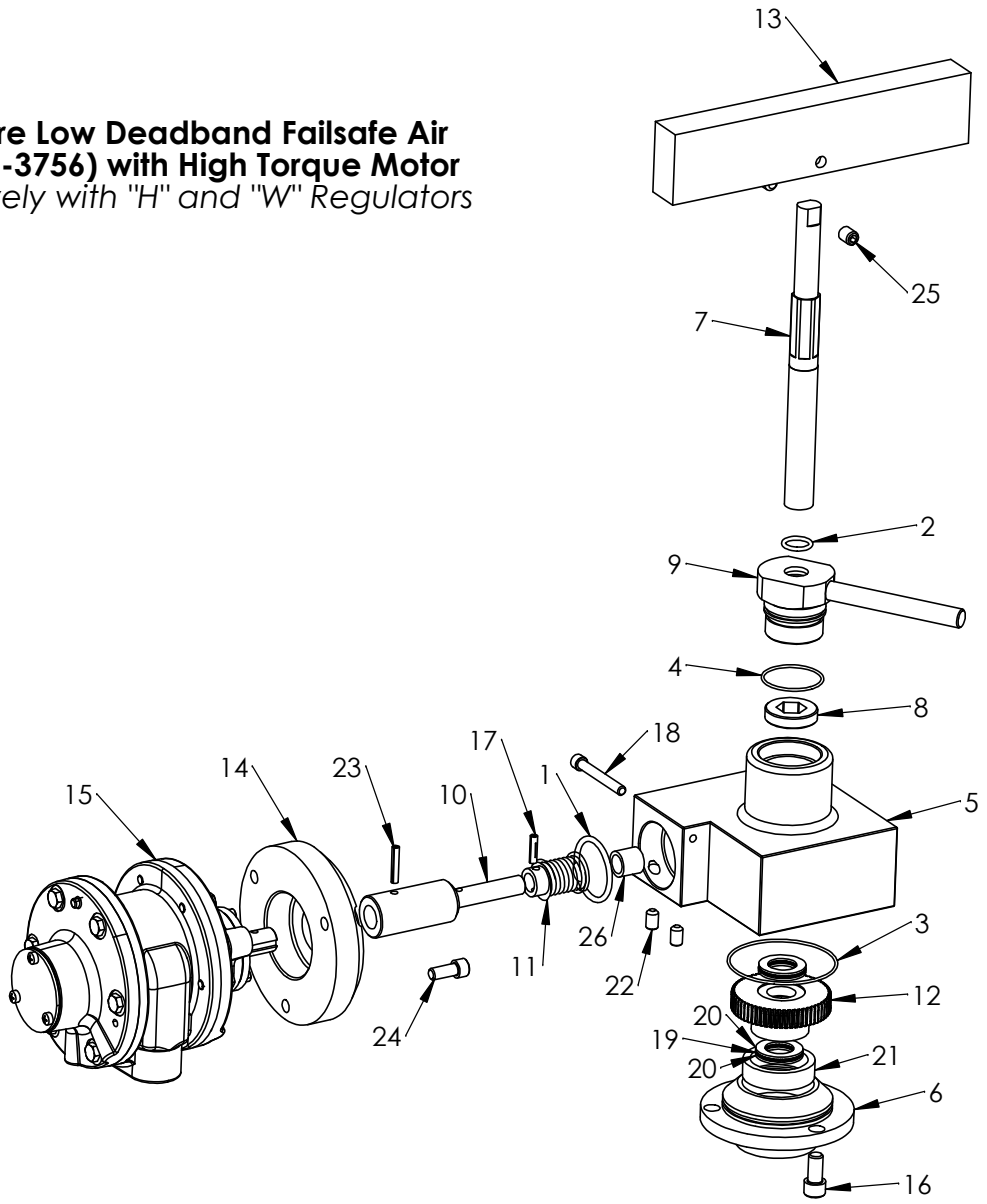
TITLE **High Pressure Low Deadband Manual Handle Assembly Drawing**

SIZE **A** REV 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	23-1123	O-Ring	1
2	23-1385	O-Ring	1
3	23-1404	O-Ring	1
4	23-1405	O-Ring	1
5	40-0413	Failsafe Body	1
6	40-0414	Adapter Plate	1
7	40-0415	Failsafe Shaft	1
8	40-0416	Failsafe Collar	1
9	40-0417	Failsafe Nut Assy	1
10	40-0716	Shaft Extension, Failsafe Hydraulic	1
11	40-2742	Worm	1
12	40-2743	Worm Gear	1
13	40-3237	Handle, Failsafe HP	1
14	40-3757	Adapter Plate, Motor	1
15	40-3761	Motor, Failsafe Air High Torque	1
16	50-0073	Bolt	3
17	50-0154	Roll Pin	1
18	50-0156	Bolt	1
19	50-0157B	Bearing	2
20	50-0157T	Thrust Washer	4
21	50-0158	Roller Bearing	1
22	50-0223	Set Screw	2
23	50-0287	Roll Pin	1
24	50-0319	Bolt	3
25	50-0482	Set Screw	2
26	50-0483	Roller Bearing	1

High Pressure Low Deadband Failsafe Air Actuator (40-3756) with High Torque Motor

Used exclusively with "H" and "W" Regulators



PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

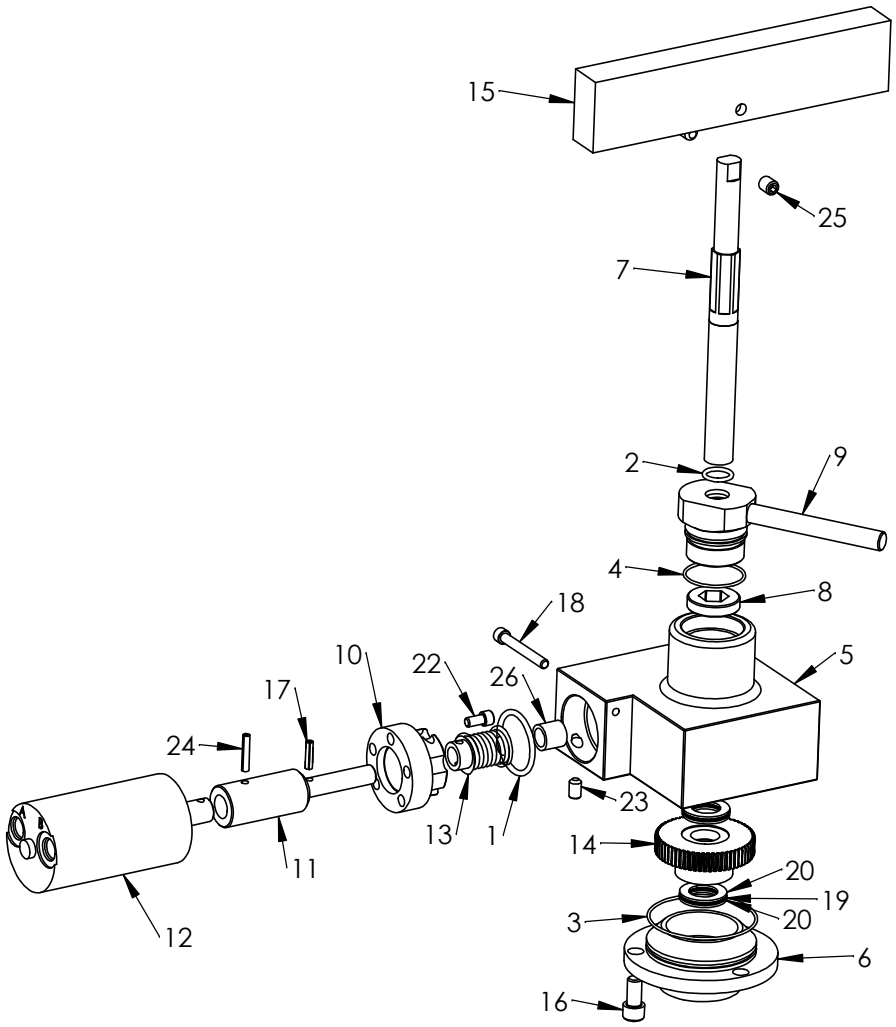
TITLE: **High Pressure Low Deadband Failsafe Air Operator Assembly Drawing**

SIZE: A | REV: 1

5 4 3 2 1

High Pressure Low Deadband Failsafe Hydraulic Actuator (40-3557)

Used exclusively with "H" and "W" Regulators



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	23-1123	O-Ring	1
2	23-1385	O-Ring	1
3	23-1404	O-Ring	1
4	23-1405	O-Ring	1
5	40-0413	Failsafe Body	1
6	40-0414	Adapter Plate	1
7	40-0415	Failsafe Shaft	1
8	40-0416	Failsafe Collar	1
9	40-0417	Failsafe Nut Assy	1
10	40-0715	Hydraulic Adapter	1
11	40-0716	Shaft Extension, Failsafe Hydraulic	1
12	40-0719	Motor, Failsafe Hydraulic	1
13	40-2742	Worm	1
14	40-2743	Worm Gear	1
15	40-3237	Handle, Failsafe HP	1
16	50-0073	SHCS	3
17	50-0154	Roll Pin	1
18	50-0156	SHCS	1
19	50-0157B	Bearing	2
20	50-0157T	Thrust Washer	4
21	50-0158	Roller Bearing	1
22	50-0215	SHCS	5
23	50-0223	Hex Socket	2
24	50-0287	Roll Pin	1
25	50-0482	Set Screw	2
26	50-0483	Roller Bearing	1

PACSEAL HYDRAULICS

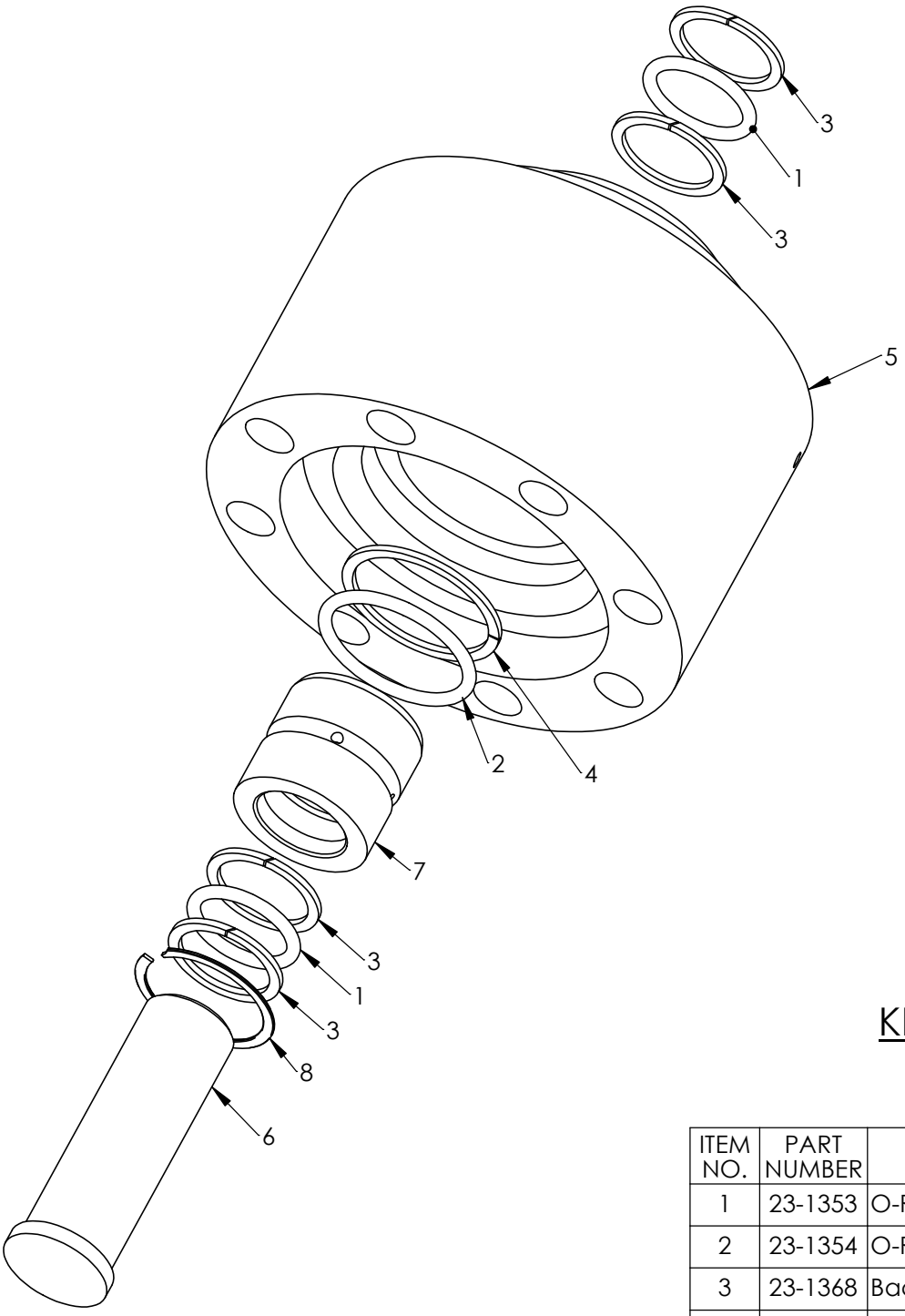
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE
High Pressure Low Deadband Failsafe Hydraulic Operator Assembly Drawing

SIZE **A** | REV **1**

5 4 3 2 1



KIT PART NUMBER
40-3147

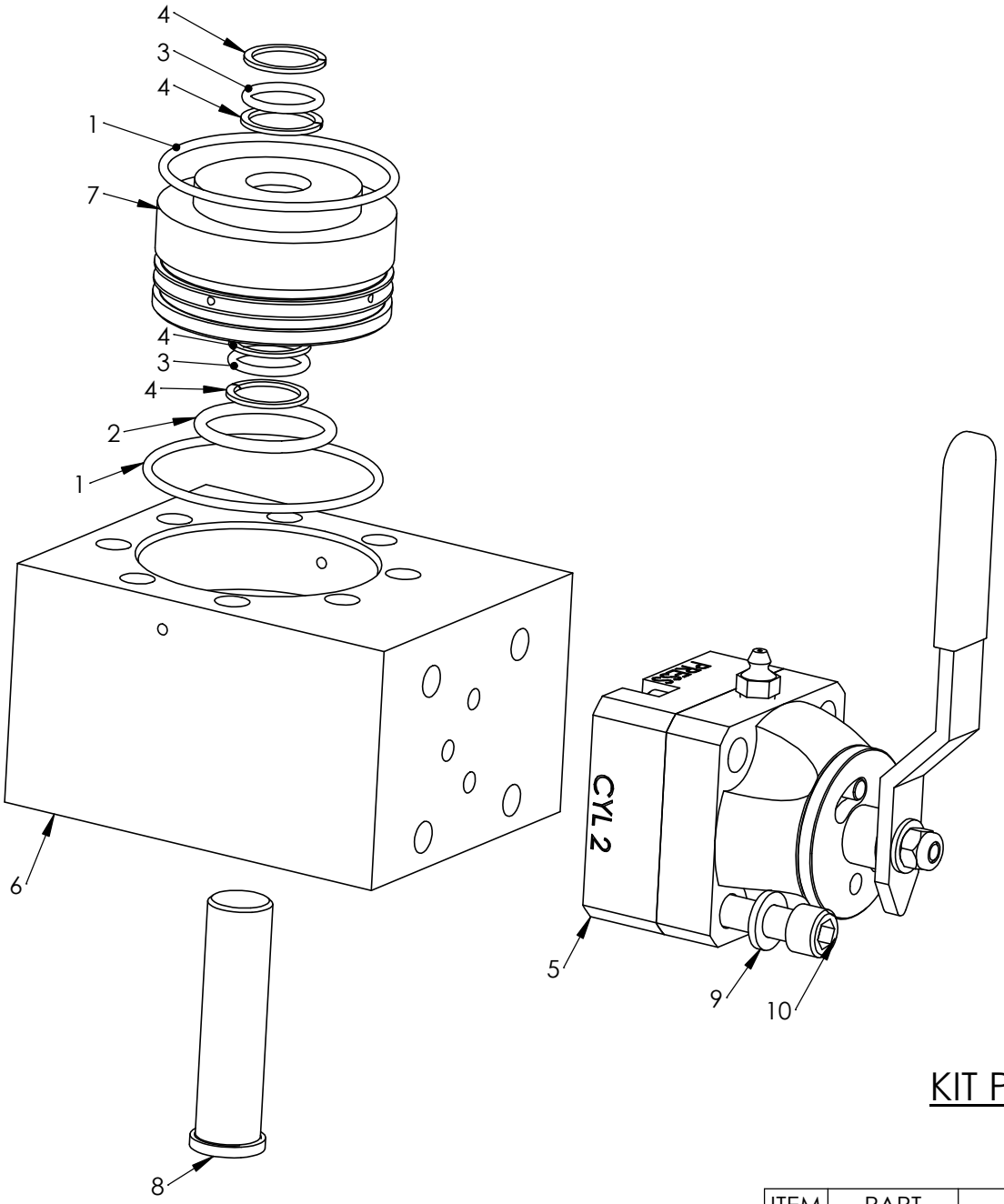
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1353	O-Ring	2
2	23-1354	O-Ring	1
3	23-1368	Backup Ring	4
4	23-1595	Backup Ring	1
5	40-2404	Body, Internal Override	1
6	40-2405	Piston, Internal Override	1
7	40-2436	Bushing, Int Override	1
8	50-0409	Retaining Ring	1

PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE **Internal Override Bypass Direct Operation Assembly Drawing**

SIZE **A** REV **1**



KIT PART NUMBER
40-3463

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1263	O-Ring	2
2	23-1324	O-Ring	1
3	23-1353	O-Ring	2
4	23-1368	Backup Ring	4
5	40-3301	SV-25 Open Center	1
6	40-3458	Body, Internal Override	1
7	40-3460	Bushing	1
8	40-3461	Piston, Internal Override	1
9	50-0103	Lock Washer	4
10	50-0338	Bolt	4

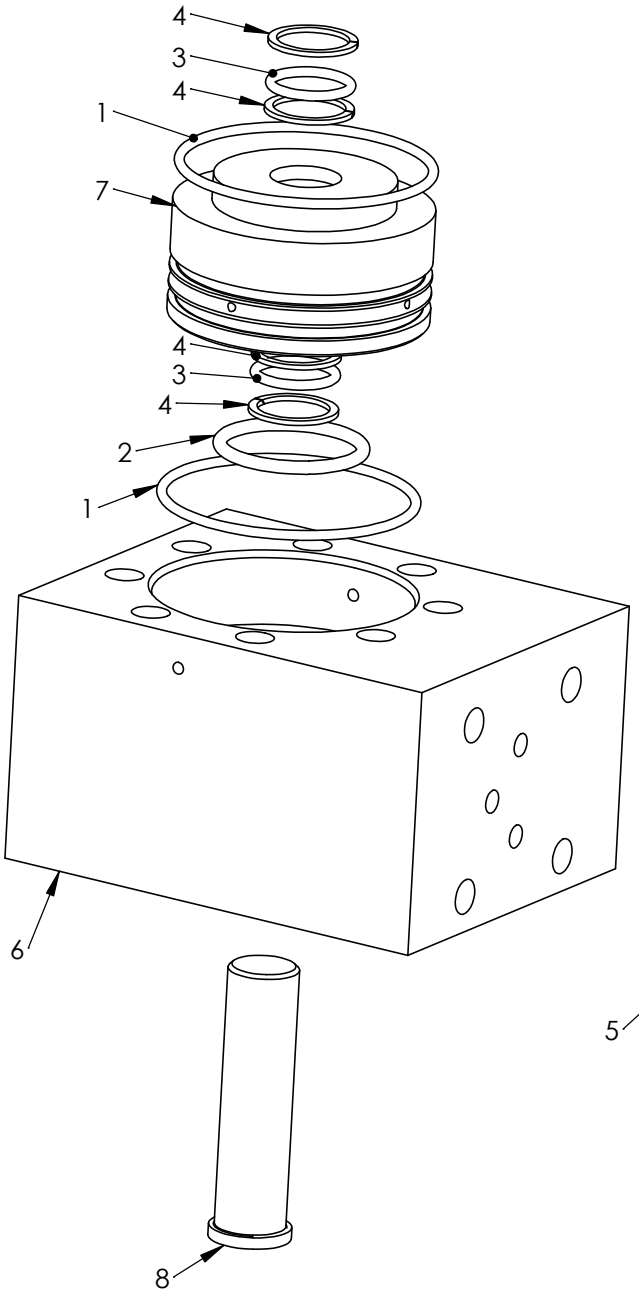
PACSEAL HYDRAULICS

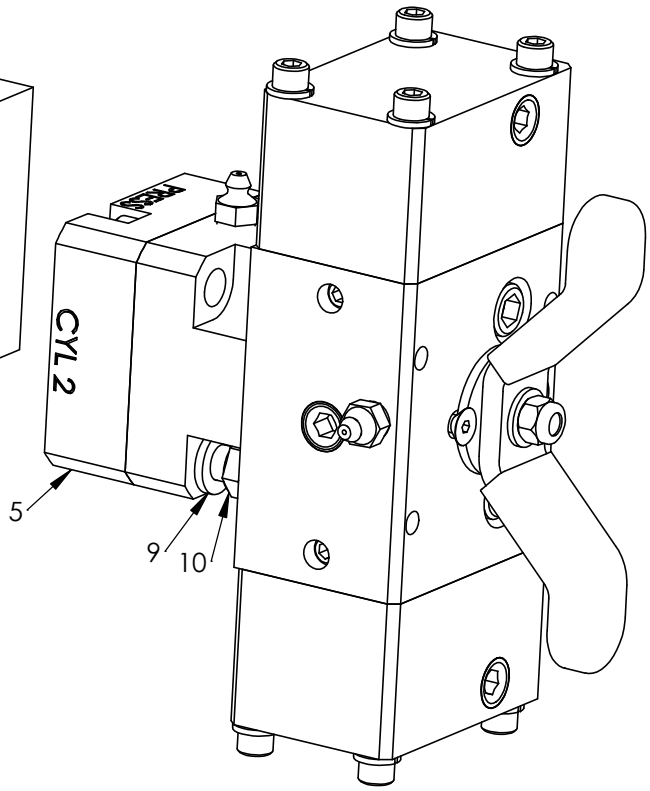
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE: **Internal Override Bypass w/ SV-25 Assembly Drawing**

SIZE: A | REV: 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1263	O-Ring	2
2	23-1324	O-Ring	1
3	23-1353	O-Ring	2
4	23-1368	Backup Ring	4
5	40-3302	SVx-25 Open Center	1
6	40-3458	Body, Internal Override	1
7	40-3460	Bushing	1
8	40-3461	Piston, Internal Override	1
9	50-0103	Lock Washer	4
10	50-0291	Bolt	4





KIT PART NUMBER
40-3561

PACSEAL HYDRAULICS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.

TITLE: **Internal Override Bypass w/ SVx-25 Assembly Drawing**

SIZE: A | REV: 1