



KR-75 Regulator Specifications Table of Contents

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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.

General Specifications

Supply Port Size	1 in. NPT or SAE ORB (2X)
Outlet Port Size	1 in. NPT or SAE ORB
Vent Port Size	1/2 in. NPT or SAE ORB
Working Pressure Options (Liquid)	3000, 5000, or 6000 psi
Regulated Outlet Pressure Options	See Product Configurator
Cv Factor Outlet	11.5
Cv Factor Vent	1.4
Rated Flow	100 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)	Hardened stainless steel ¹
Body	Stainless steel
Operators	Carbon Steel
Flanges and Hardware	Coated Carbon Steel
O-rings	Buna-N (N), Viton (V), or EPR (E)
Backup Rings	Teflon

¹For water based media, special 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	200-2000	85-150
R	3000/5000	550-2500	300-600
H	5000/6000	350-3300	85-150
D	5000/6000	400-4000	150-250
V	6000	1200-5500	450-800
W	6000	600-5000	150-250
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

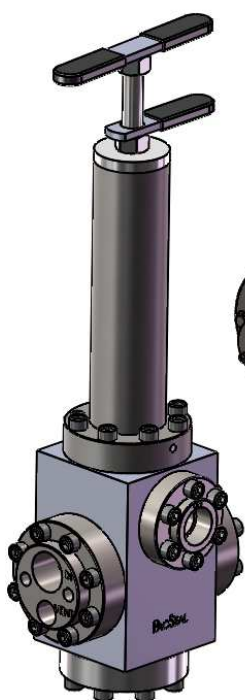
Basic Model	Ports	Supply Pressure	Regulated Outlet Pressure		Operator	Internal Override Bypass	Water Glycol App's
			Operating Range ²	Deadband			
N	NPT	3 3000 psi	L 200-2000 psi	85-150 psi	M Manual	-IO Direct	-W ¹ Special Alloy
S	SAE	5 5000 psi	R 550-2500 psi	300-600	FSA Failsafe Air Motor	-IS with SV-25	Seal Rings
M	Subplate Mount (NPT)	5 5000 psi	H 350-3300 psi	85-150 psi	FSH Failsafe Hydraulic	-IX with SVx-25	
KR-75	T Subplate Mount (SAE) ¹	6 6000 psi	D 400-4000 psi	150-250			
	C Code-61 ¹	6 6000 psi	W 600-5000 psi	150-250			
	D Code-62 ¹	6 6000 psi	V 1200-5500 psi	450-800 psi			
		3, 5, or 6	P ³ 50-6000 psi	0-100 psi	H Hydraulic Pilot		

Leave blank if N/A

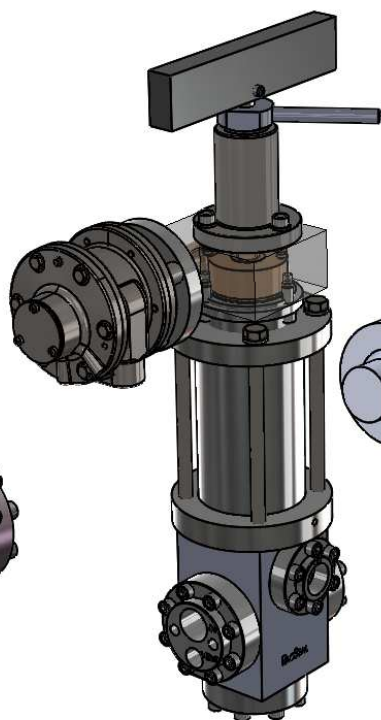
Notes: ¹ Not a standard option - special order only

² Regulated Outlet Pressure cannot exceed supply pressure. Absolute Outlet Pressure is 0 psi up to 25% above the maximum operating pressure.

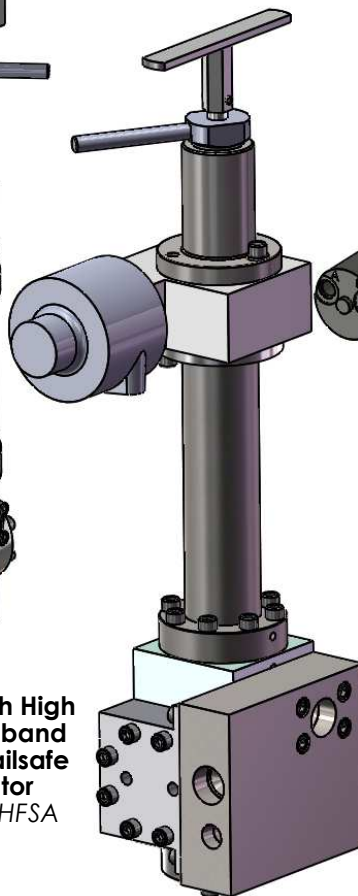
³ Maximum regulated outlet pressure matches the supply pressure for a regulator with the Hydraulic Pilot operator



KR-75 Regulator with Standard Ports (NPT/SAE) and Manual Operator
Example: KR-75N3LM



KR-75 Regulator with High Pressure Low Deadband and High Torque Failsafe Air Motor Operator
Example: KR-75N3HFSA



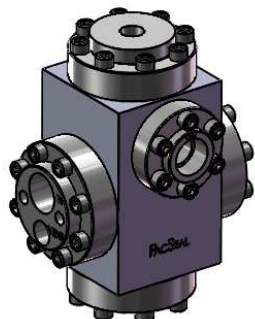
KR-75 Regulator with Subplate Mount (NPT/SAE) and Failsafe Air Motor Operator
Example: KR-75M3RFSA



KR-75 Regulator with Failsafe Hydraulic Motor Operator
Example: KR-75N3RFSH



KR-75 Regulator with Direct Internal Override
Example: KR-75S5DM-IO



KR-75 Regulator with Hydraulic Pilot Operator
Example: KR-75N5PH



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TITLE

Configuration Overview

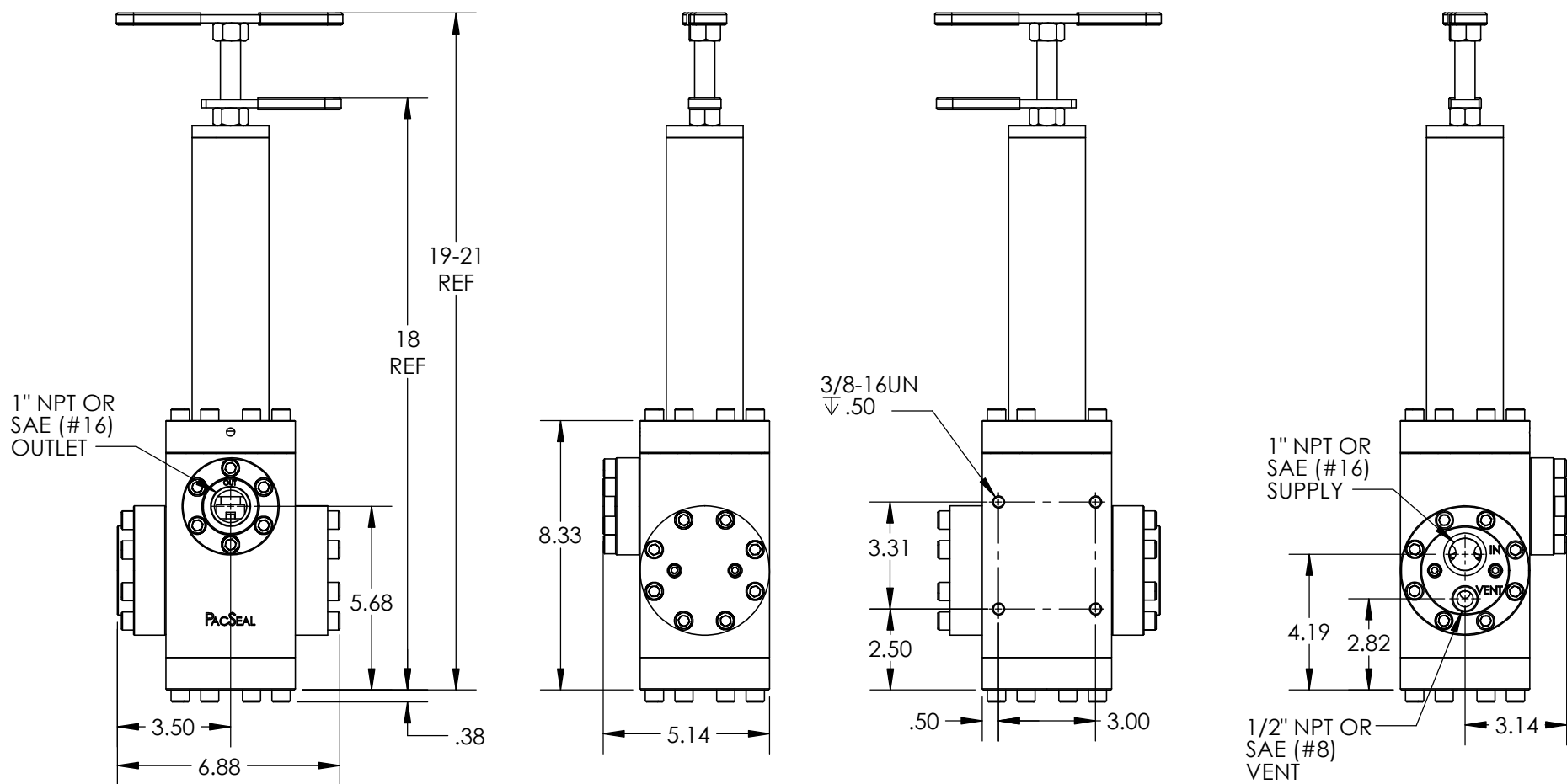
SIZE

A

REV

7

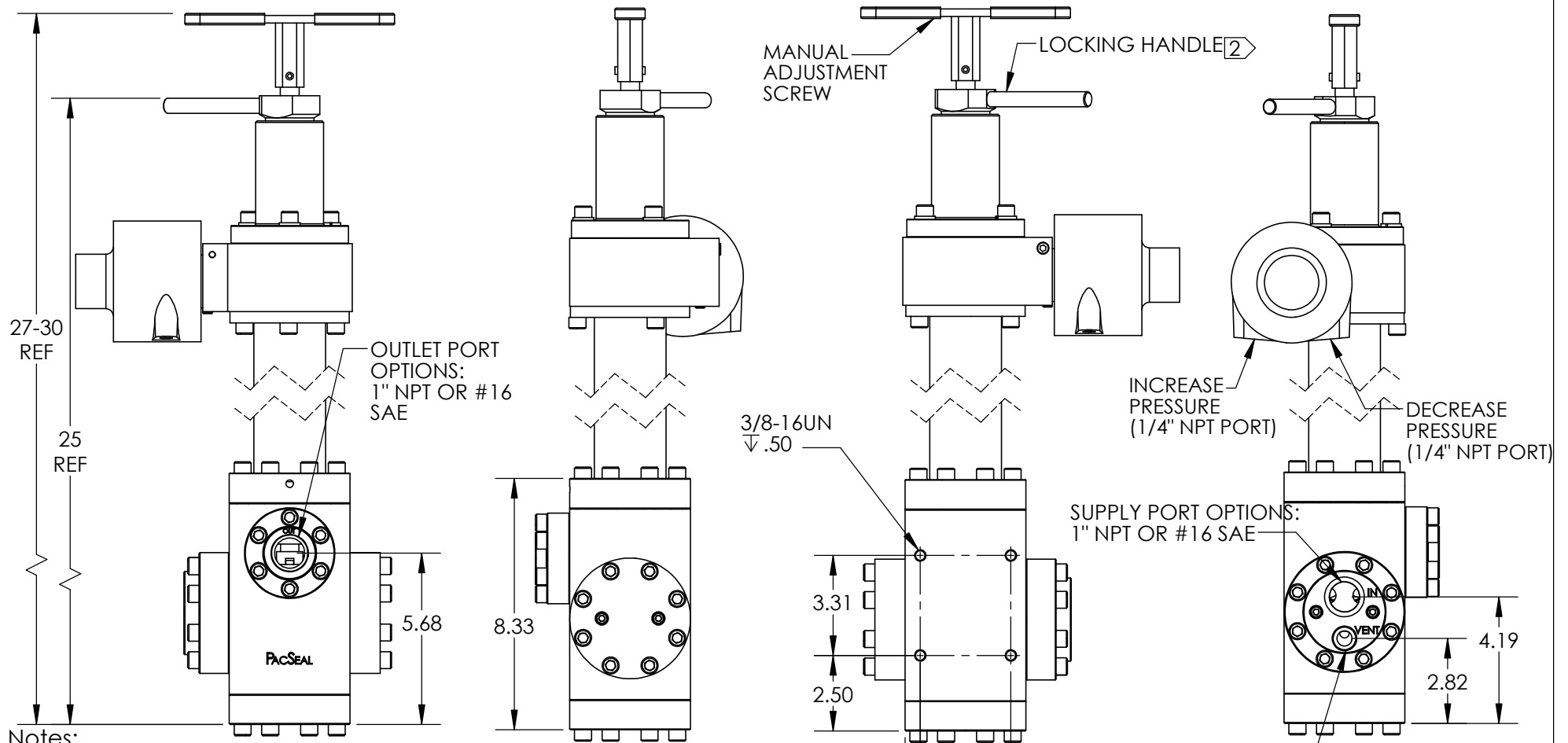
SHEET 3 OF 26



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, R, D, V
3. Weight - 48 lb.
4. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

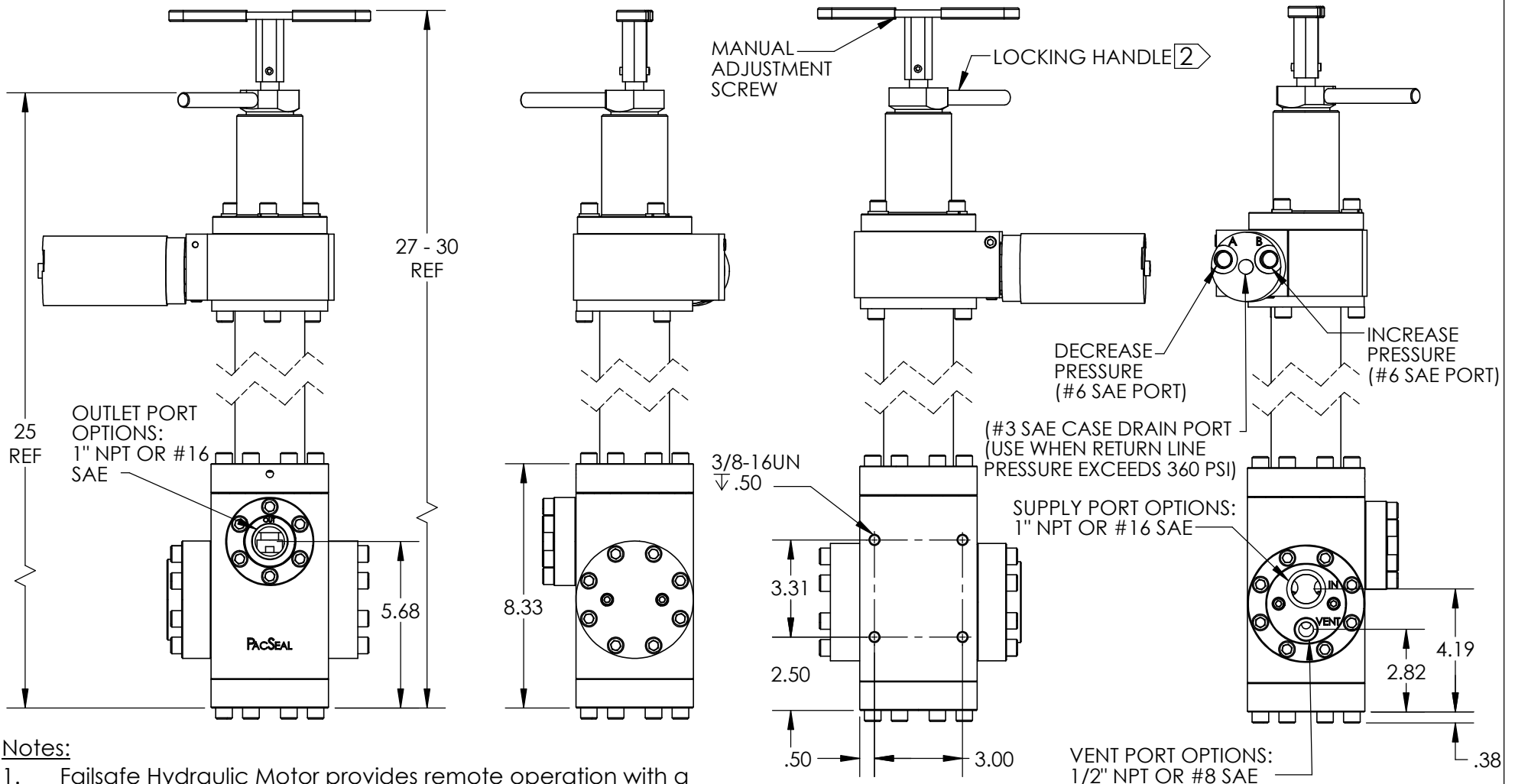
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		<p>SHEET 4 OF 26</p>	



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. Max air motor supply pressure - 115 psi maximum with 1/2" tubing.
4. Model configuration (Regulated Outlet Pressure) options: L, R, D, V
5. Weight - 77 lb.
6. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

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		<p>SHEET 5 OF 26</p>	



Notes:

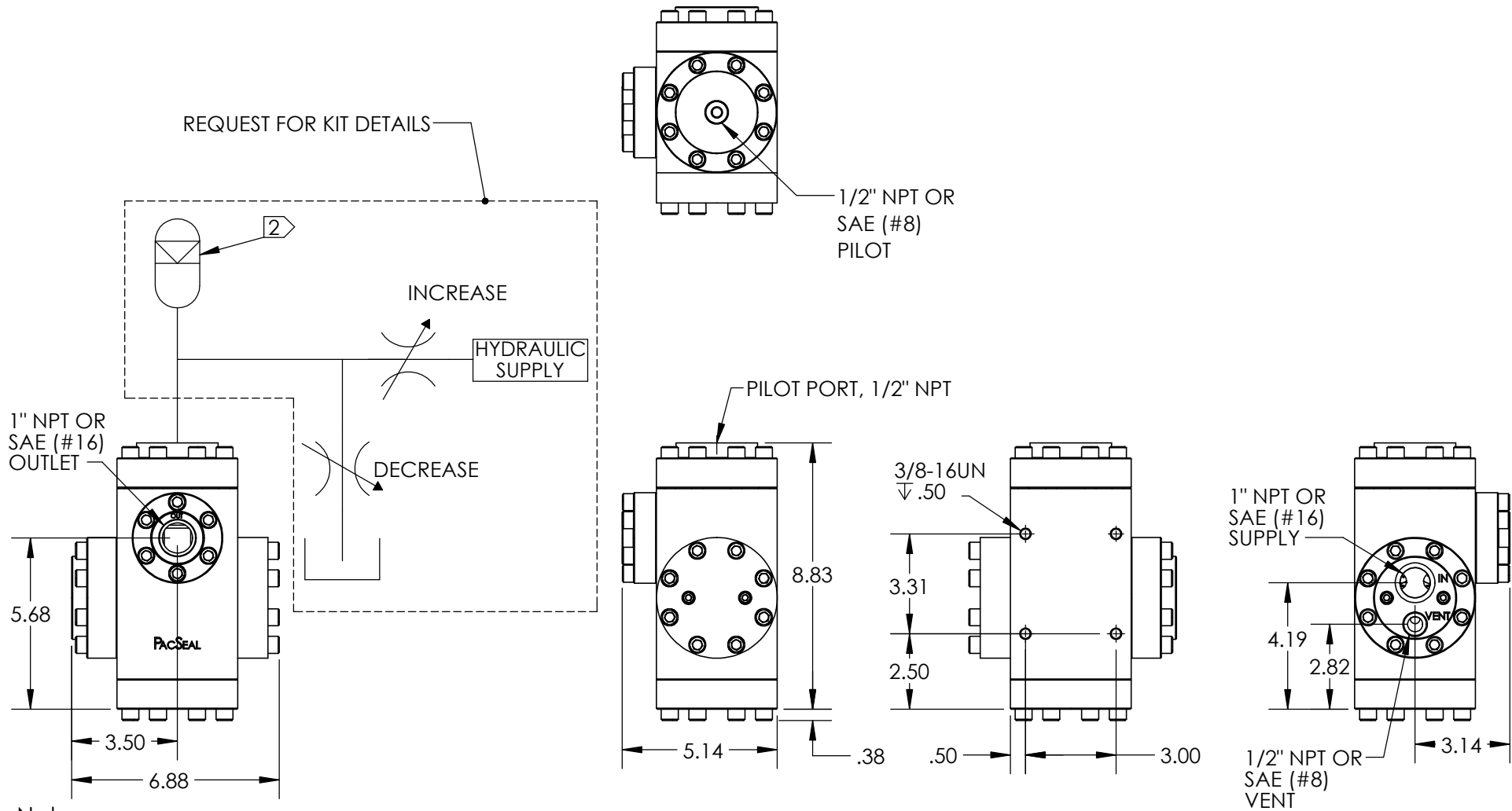
1. Failsafe Hydraulic Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
- ② Turn locking handle clockwise to lock for failsafe remote operation. Turn locking handle counter-clockwise to unlock for manual operation/override.
3. Max hydraulic motor supply pressure - 1500 psi maximum
4. Model configuration (Regulated Outlet Pressure) options: L, R, D, V
5. Weight - 74 lb.
6. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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TITLE **KR-75 Regulator w/
 Failsafe Hydraulic
 Operator (NPT/SAE)
 Installation Drawing**

SIZE A	REV 7
SHEET 6 OF 26	



Notes:

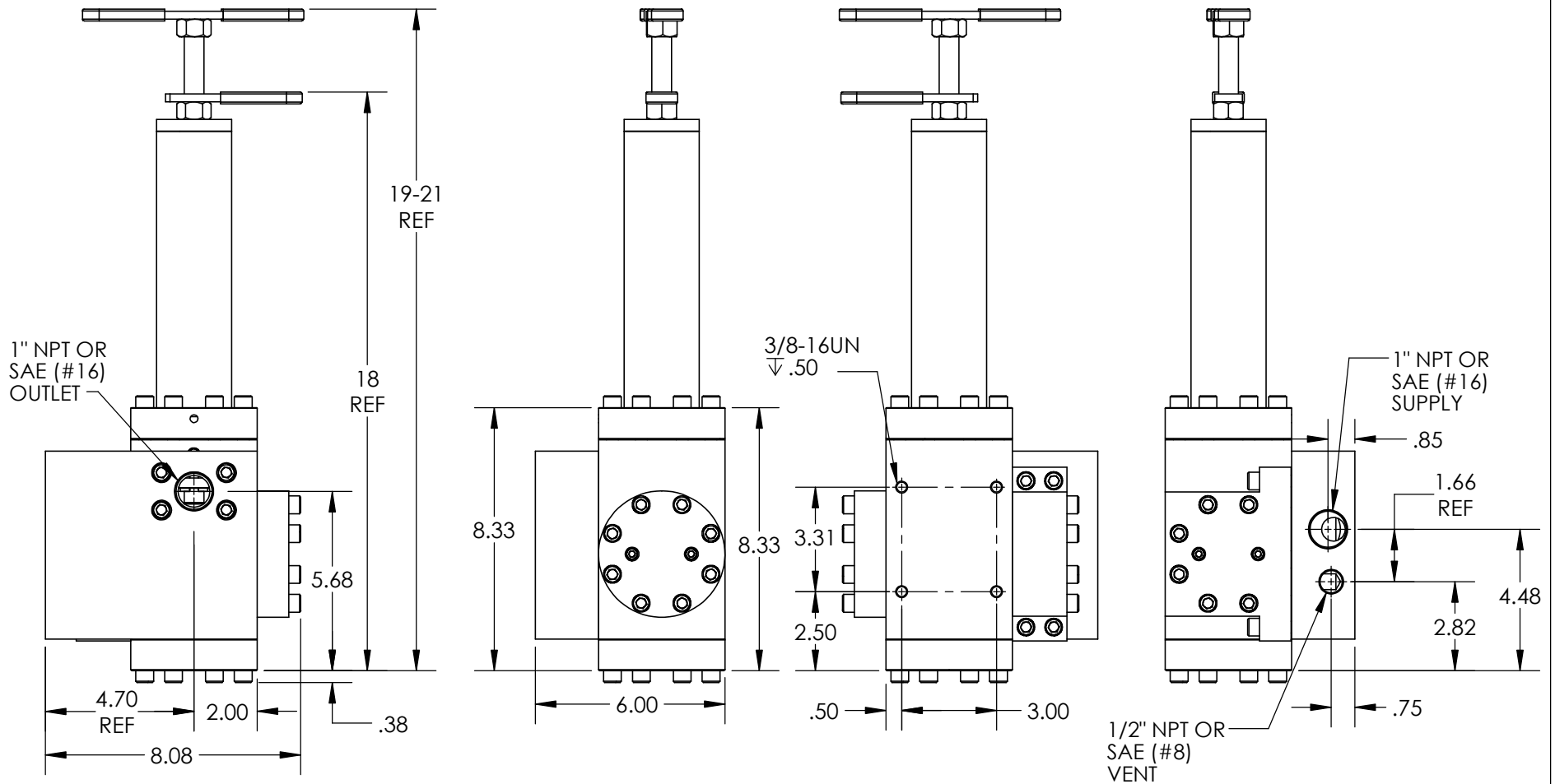
1. A remote, variable hydraulic signal operates on a piston with a 1:1 ratio which allows for the most precisely controlled outlet pressures of all options. As a safety measure, loss of hydraulic pilot pressure will result in the outlet venting to tank.
- ② Requires a minimum 1 Pint Accumulator for operation
3. Model configuration (Regulated Outlet Pressure) option: P
4. Weight - 41 lb.
5. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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TITLE **KR-75 Regulator w/
 Hydraulic Pilot
 Operator (NPT/SAE)
 Installation Drawing**

SIZE A	REV 7
SHEET 7 OF 26	



Notes:

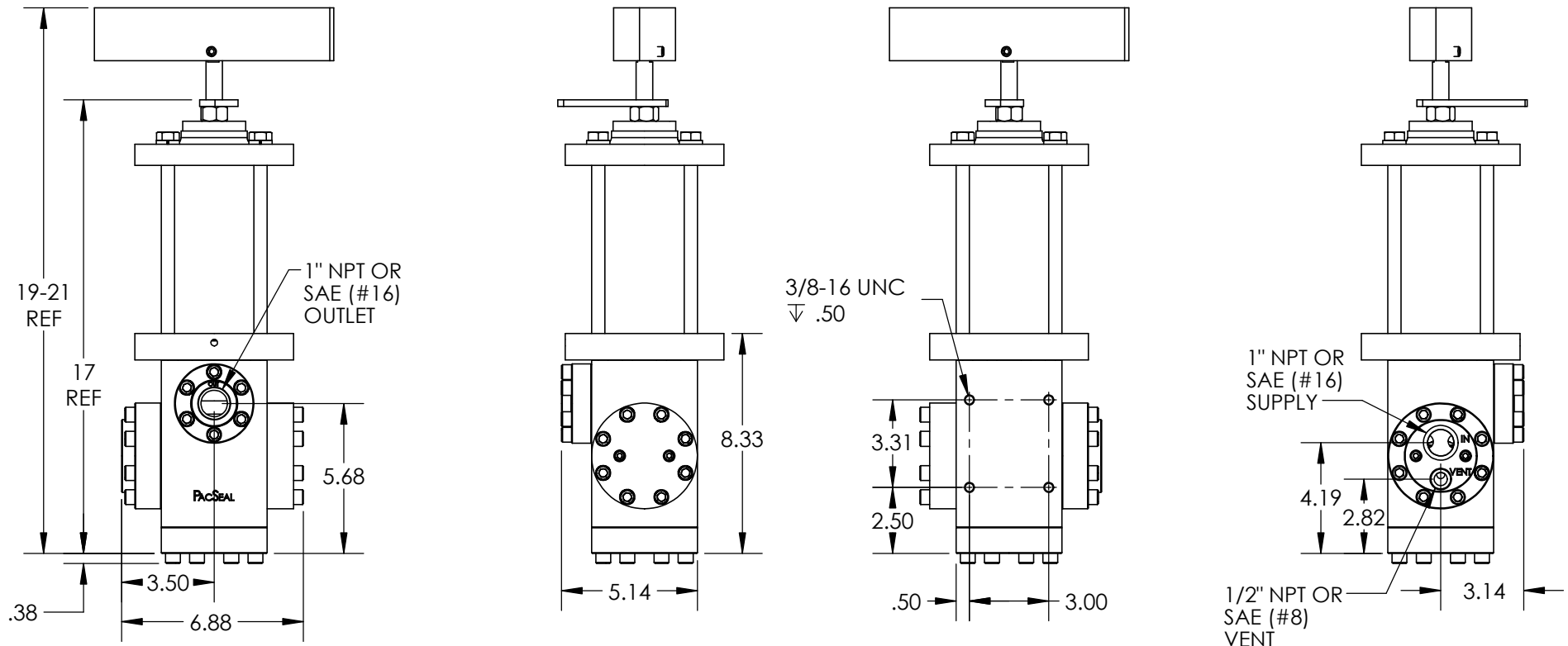
1. Operator options: Manual, FSA, FSH, or Hydraulic Pilot
2. Model configuration (Regulated Outlet Pressure) options: D, L, R, V
3. Weight - 73 lb.
4. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.
5. Refer to sheets 5-7 for other operator dimensions.



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TITLE
KR-75 Subplate Mount (NPT/SAE) Regulator Installation Drawing

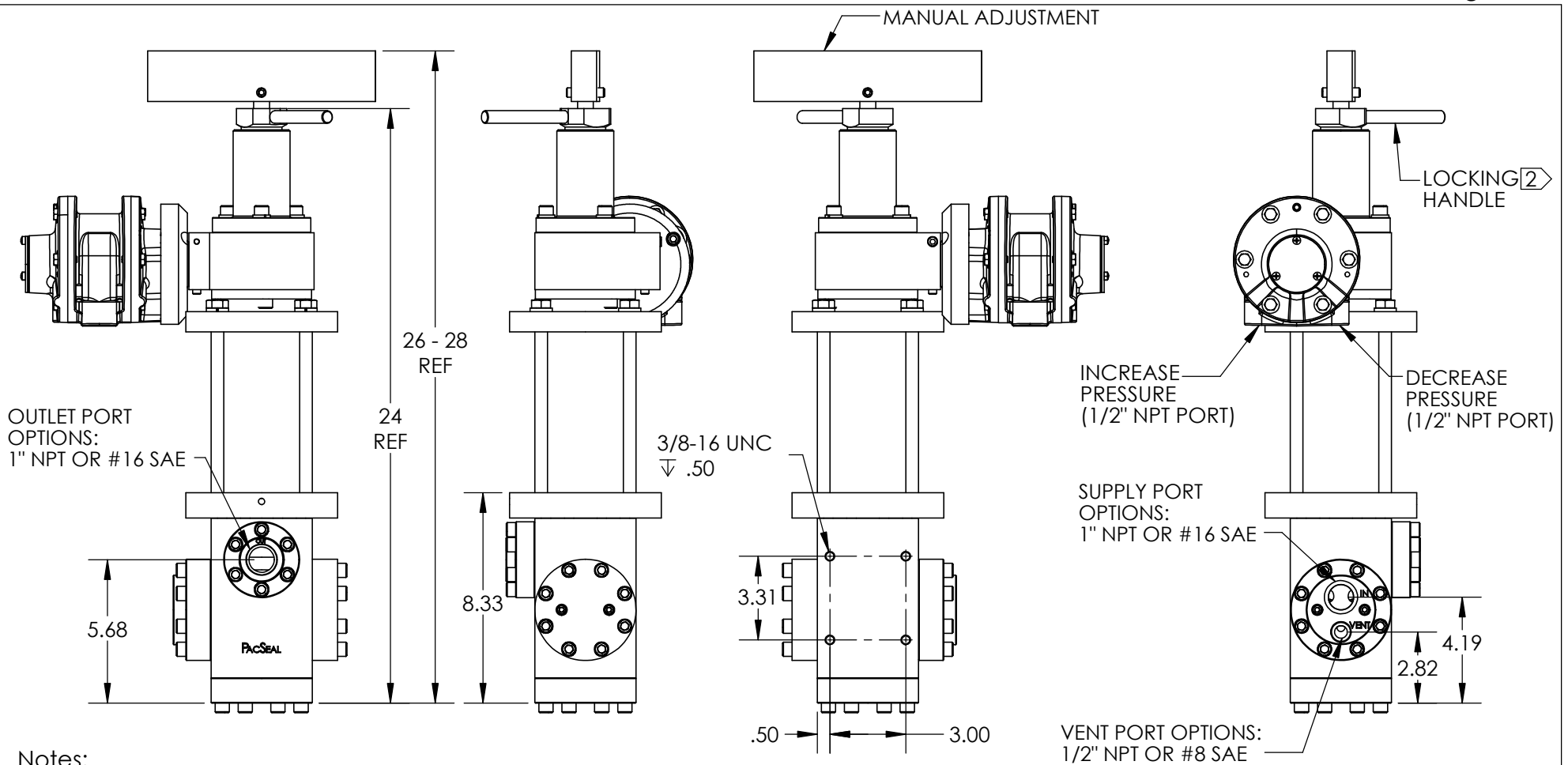
SIZE A	REV 7
SHEET 8 OF 26	



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 (5000/6000 psi supply) and W (6000 psi supply).
3. Weight - 73 lb.
4. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

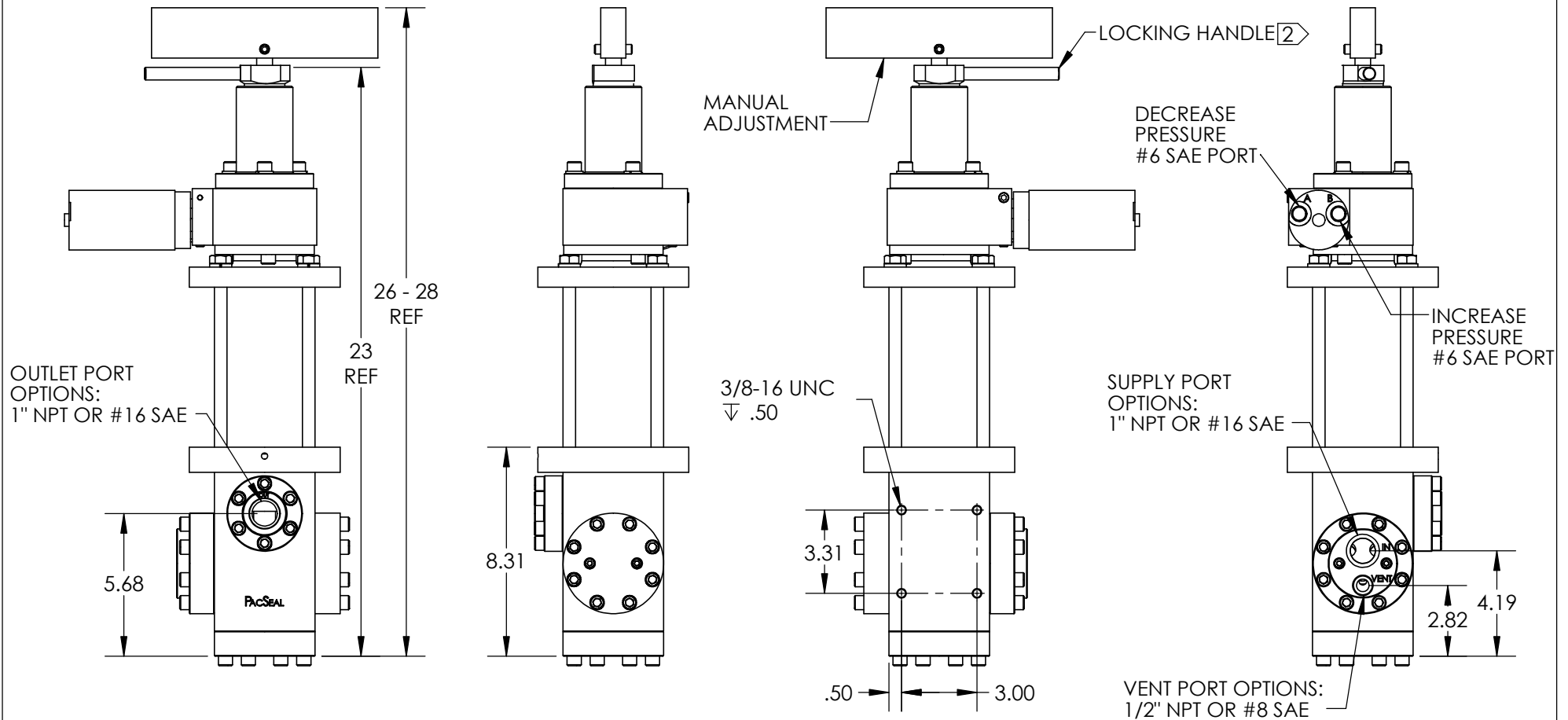
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			<p>SHEET 9 OF 26</p>



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. Max air motor supply pressure - 115 psi maximum with 1/2" tubing.
4. Model configuration (Regulated Outlet Pressure) option: H (5000 psi supply) and W (6000 psi supply).
5. Weight - 115 lb.
6. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

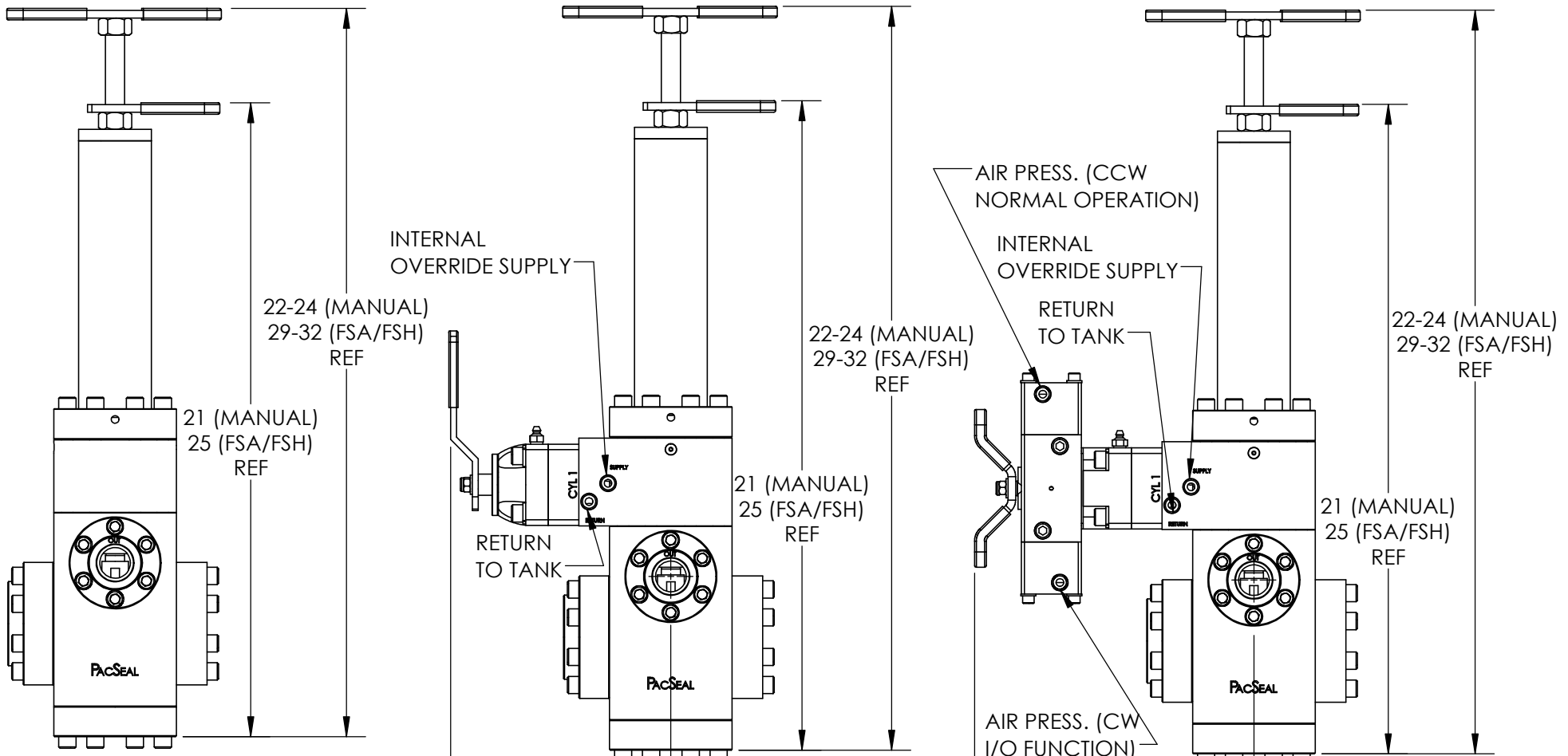
			
<p style="text-align: center;">PROPRIETARY AND CONFIDENTIAL</p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PacSeal. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PacSeal IS PROHIBITED.</p>	<p>TITLE High Pressure Output Regulator w/ High Torque Failsafe Air Operator</p>	<p>SIZE A</p>	<p>REV 7</p>
			<p>SHEET 10 OF 26</p>



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 maximum
4. Model configuration (Regulated Outlet Pressure) option: H (5000 psi supply) and W (6000 psi supply).
5. Weight - 98 lb.
6. All dimensions are consistent for KR-75 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.

			
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			<p>SHEET 11 OF 26</p>



KR-75 Internal Override Remote Pilot Operation (-IO)

KR-75 Internal Override with SV-25 Open Center Pilot Valve (-IS)

KR-75 Internal Override with SVx-25 Open Center Pilot Air Actuated Valve (-IX) (80-150 psi air inlet) (3000 psi working pressure)

Notes:

- ① See SV-25 (40-3301) product information for further details
- ② See SVx-25 (40-4549) product information for further details
- 3. Regulated outlet pressure options: L, R, E, D, V

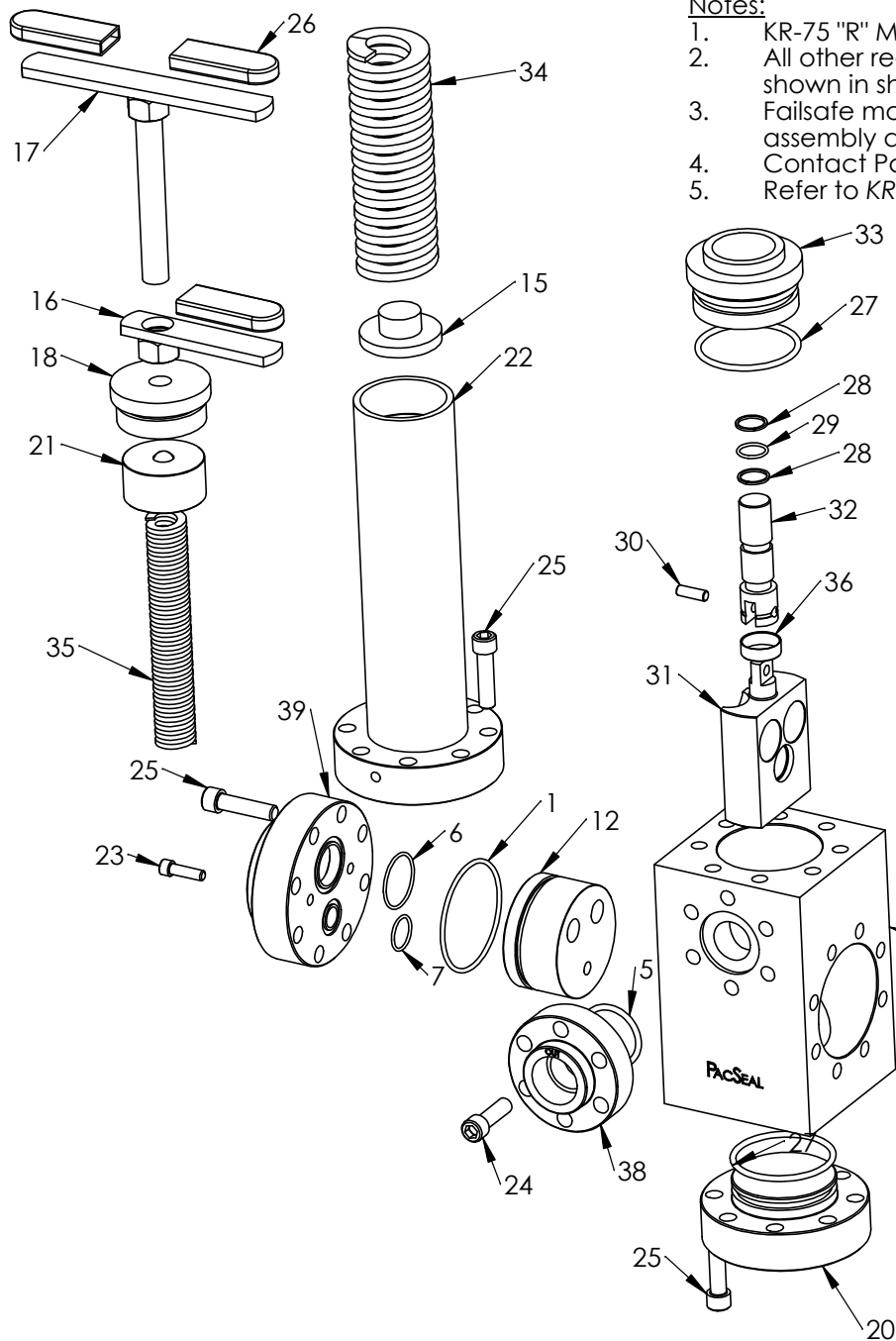
The I/O Bypass operator allows full accumulator pressure to be supplied downstream of the regulator without a dedicated 4-way bypass valve in the circuit. The over-ride bypass is accomplished by applying a pilot signal to the I/O operator which is equal to or greater than the accumulator pressure. The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



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TITLE KR-75 Internal Override Options Installation Drawing

SIZE A	REV 7
SHEET 12 OF 26	



Notes:

1. KR-75 "R" Manual Regulator shown for illustration purposes.
2. All other regulated outlet pressure model configurations shown in sheets 14 - 17.
3. Failsafe motor High Pressure Low Deadband operator assembly drawings shown in sheets 18-22.
4. Contact PacSeal for replacement parts.
5. Refer to KR-75 Maintenance Instructions for more details.

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	23-1263	O-Ring	2
2	23-1293	O-Ring	2
3	23-1322	Backup Ring	4
4	23-1323	O-Ring	4
5	23-1324	O-Ring	1
6	23-1325	O-Ring	1
7	23-1326	O-Ring	1
8	23-1329	Backup Ring	2
9	40-0013	Seal Ring, Vent	2
10	40-0014	Seal Ring, Supply	4
11	40-0015	Flow Plate, Blind	1
12	40-0016	Flow Plate, Supply	1
13	40-0109	Wave Spring	1
14	40-0110	Spring	2
15	40-0134	Spring Plate	1
16	40-0135	Lock Handle	1
17	40-0136	Adjusting Screw & Handle	1
18	40-0140	Plug, Adjustment Head	1
19	40-0195	Flange, Blind	1
20	40-0197	Flange, Lower	1
21	40-0300	Spring Guide	1
22	40-0383	Ajustment Head	1
23	50-0066	SHCS	4
24	50-0068	Bolt	6
25	50-0069	Bolt	32
26	50-0239	Grip, Handle	3
27	Note 2	O-Ring	2
28	Note 2	Backup Ring	2
29	Note 2	O-Ring	1
30	Note 2	Dowel Pin	1
31	Note 2	Seal Container	1
32	Note 2	Piston	1
33	Note 2	Piston Guide	1
34	Note 2	Spring, Outer	1
35	Note 2	Spring, Inner	1
36	Note 2	Pin, Retainer	1
37	Note 4	Body	1
38	Note 4	Flange, Outlet 1" NPT	1
39	Note 4	Flange, Main	1



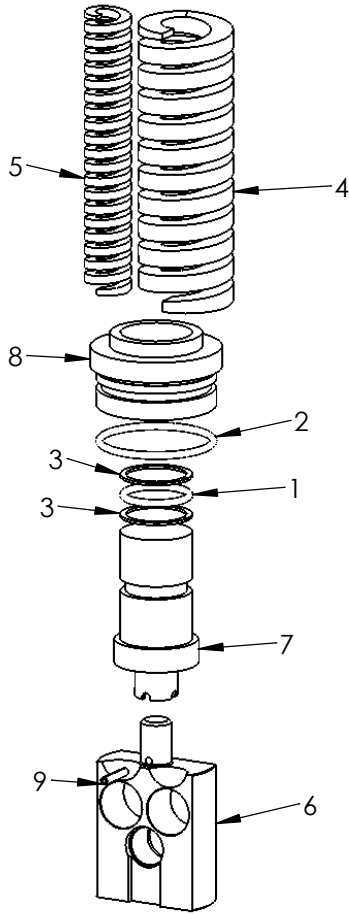
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TITLE
KR-75 General Assembly Overview

SIZE A	REV 7
SHEET 13 OF 26	

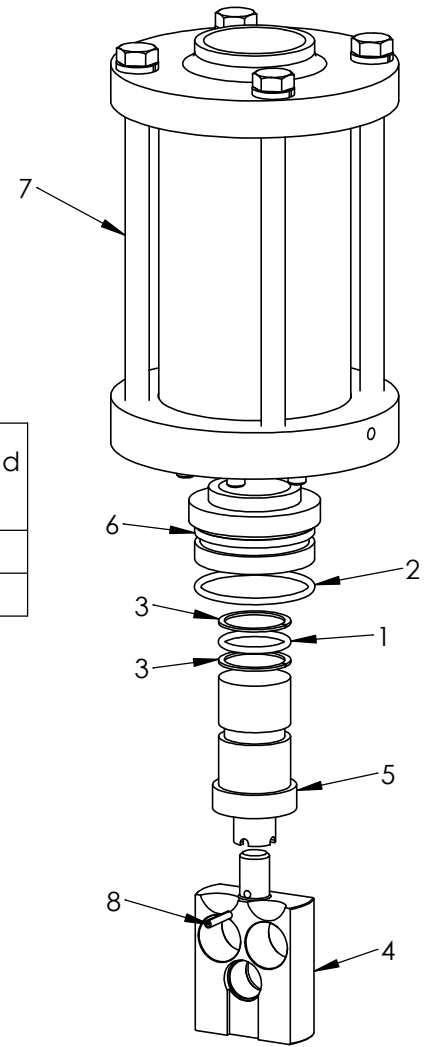
Notes:

- The listed components vary based on Supply and Regulated Outlet Pressures, while all other regulator components (shown in sheet 13 "General Assembly Overview") are shared.



KR-75 "L" Regulator

Model	Supply Pressure (psi)	Regulated Outlet Pressure (psi)	Deadband (psi)
L	3000/5000	200-2000	85-150
H	5000/6000	350-3300	85-150



**KR-75 "H" Regulator
with High Pressure Output
Adjustment Head**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1124	O-Ring	1
2	23-1319	O-Ring	1
3	23-1342	Backup Ring	2
4	40-0143	Spring, Outer	1
5	40-0144	Spring, Inner	1
6	40-0182	Seal Container	1
7	40-0995	Piston, L	1
8	40-0996	Piston Guide, L	1
9	50-0117	Roll Pin	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1124	O-Ring	1
2	23-1319	O-Ring	1
3	23-1342	Backup Ring	2
4	40-0182	Seal Container	1
5	40-0995	Piston, L	1
6	40-0996	Piston Guide, L	1
7	40-2927	KR-75/140/150 L-HP Manual Operator	1
8	50-0117	Roll Pin	1



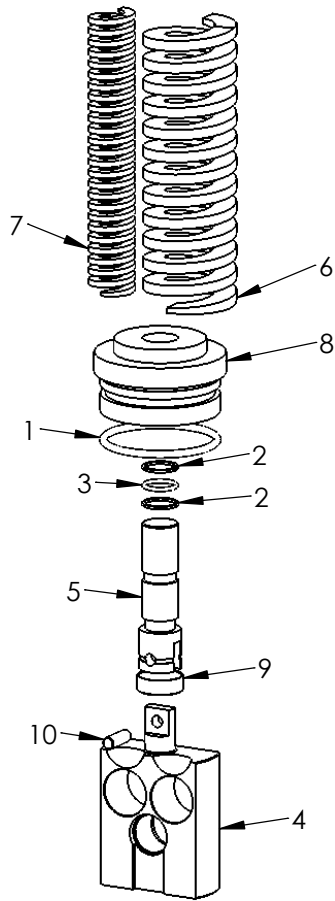
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TITLE **L and H Model Configurations Assembly Drawing**

SIZE **A** REV **7**
SHEET 14 OF 26

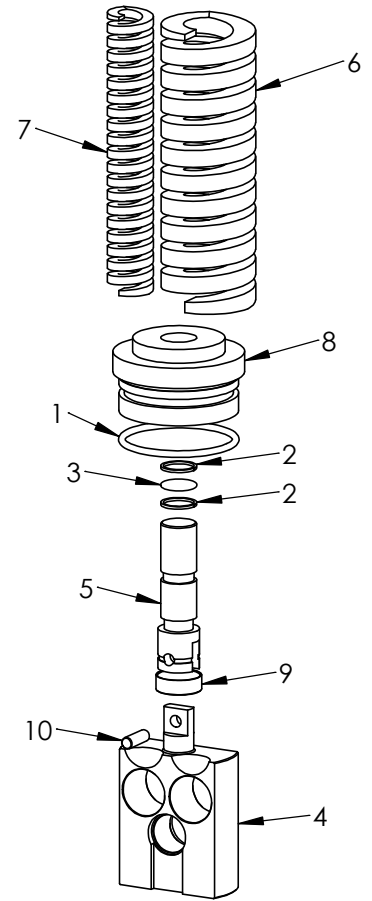
Notes:

1. The listed components vary based on Supply and Regulated Outlet Pressures, while all other regulator components (shown in sheet 13 "General Assembly Overview") are shared.



KR-75 "R" Regulator

Model	Supply Pressure (psi)	Regulated Outlet Pressure (psi)	Deadband (psi)
R	3000/5000	550-2500	300-600
V	6000	1200-5500	450-800



KR-75 "V" Regulator

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1319	O-Ring	1
2	23-1320	Backup Ring	2
3	23-1321	O-Ring	1
4	40-0106	Seal Container	1
5	40-0107	Piston, R	1
6	40-0189	Spring, Outer	1
7	40-0190	Spring, Inner	1
8	40-0186	Piston Guide, R	1
9	40-0199	Pin, Retainer	1
10	50-0087	Dowel Pin	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1319	O-Ring	1
2	23-1320	Backup Ring	2
3	23-1321	O-Ring	1
4	40-0106	Seal Container	1
5	40-0107	Piston, R	1
6	40-0143	Spring, Outer	1
7	40-0144	Spring, Inner	1
8	40-0186	Piston Guide, R	1
9	40-0199	Pin, Retainer	1
10	50-0087	Dowel Pin	1



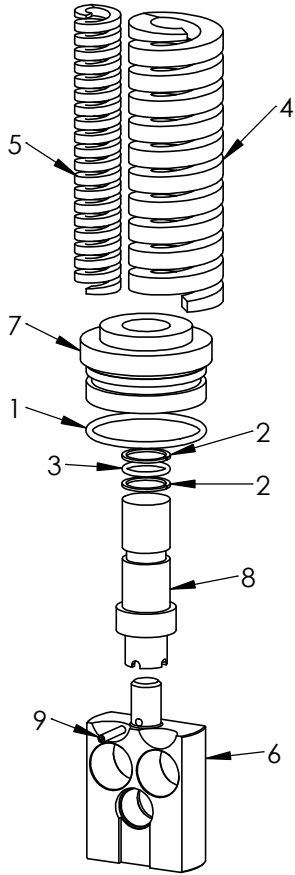
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TITLE **R and V Model Configurations Assembly Drawing**

SIZE **A** REV **7**
 SHEET 15 OF 26

Notes:

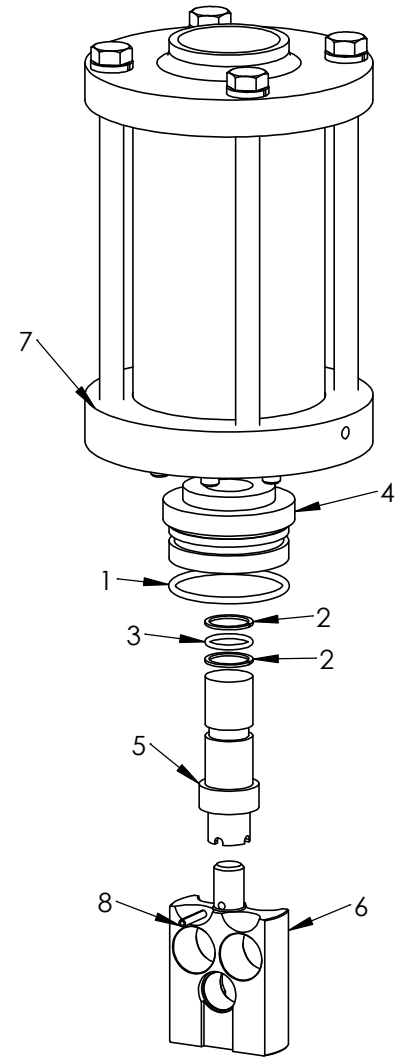
1. The listed components vary based on Supply and Regulated Outlet Pressures, while all other regulator components (shown in sheet 13 "General Assembly Overview") are shared.



Model	Supply Pressure (psi)	Regulated Outlet Pressure (psi)	Deadband (psi)
D	5000/6000	400-4000	150-250
W	6000	600-5000	150-250

KR-75 "D" 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	40-0143	Spring, Outer	1
5	40-0144	Spring, Inner	1
6	40-0182	Seal Container	1
7	40-1076	Piston Guide, D	1
8	40-1077	Piston, D	1
9	50-0117	Roll Pin	1



KR-75 "W" Regulator with High Pressure Output Adjustment Head

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	40-1076	Piston Guide, D	1
5	40-1077	Piston, D	1
6	40-1292	Seal Container	1
7	40-2927	KR-75/140/150 L-HP Manual Operator	1
8	50-0117	Roll Pin	1



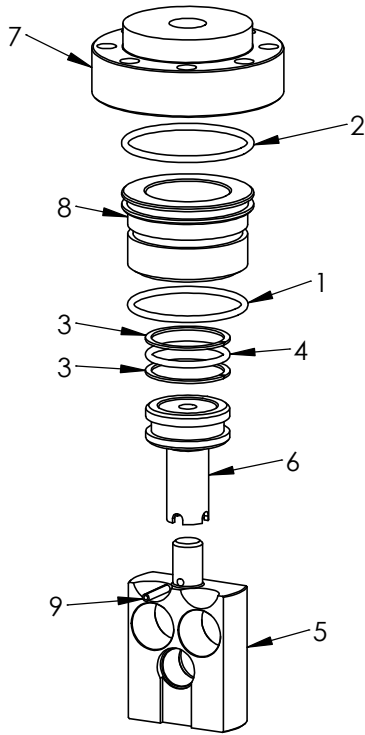
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TITLE **D and W Model Configurations Assembly Drawing**

SIZE **A** REV **7**
 SHEET 16 OF 26

Notes:

- The listed components vary based on Supply and Regulated Outlet Pressures, while all other regulator components (shown in sheet 13 "General Assembly Overview") are shared.



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

KR-75 "P" Regulator

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1319	O-Ring	1
2	23-1327	O-Ring	1
3	23-1328	Backup Ring	2
4	23-1529	O-Ring	1
5	40-0182	Seal Container	1
6	40-0183	Piston	1
7	40-0298	Hydraulic Head	1
8	40-0299	Piston Guide	1
9	50-0117	Roll Pin	1



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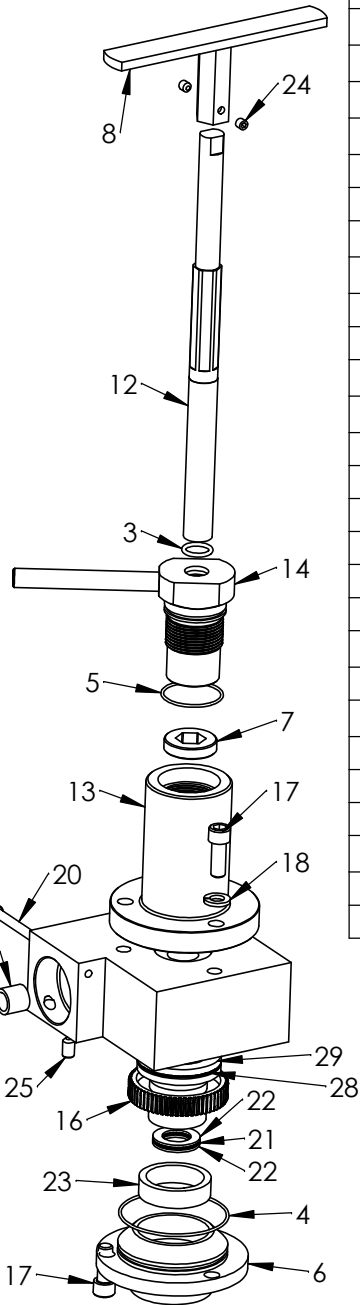
TITLE
P Model Configurations Assembly Drawing

SIZE A	REV 7
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SHEET 17 OF 26

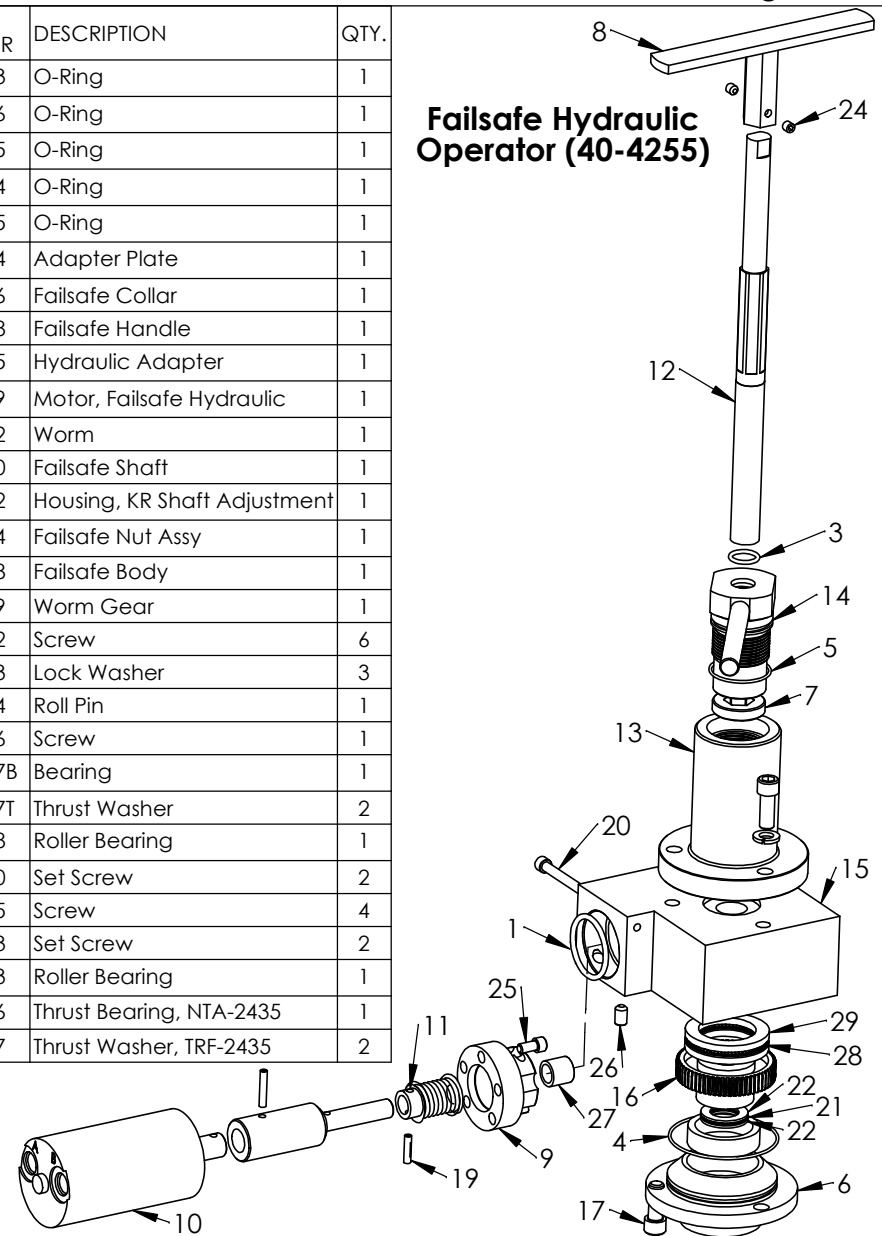
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1123	O-Ring	1
2	23-1356	O-Ring	1
3	23-1385	O-Ring	1
4	23-1404	O-Ring	1
5	23-1405	O-Ring	1
6	40-0414	Adapter Plate	1
7	40-0416	Failsafe Collar	1
8	40-0418	Failsafe Handle	1
9	40-0419	Shaft Extension, Failsafe Air	1
10	40-0543	Motor, Failsafe Air Standard	1
11	40-2742	Worm	1
12	40-3960	Fail Safe Shaft, KR	1
13	40-3962	Housing, KR Shaft Adjustment	1
14	40-3964	Failsafe Nut Assy	1
15	40-4978	Failsafe Body	1
16	40-4979	Worm Gear	1
17	50-0072	Screw	6
18	50-0103	Lock Washer	3
19	50-0154	Roll Pin	1
20	50-0156	Screw	1
21	50-0157B	Bearing, NTA-1220	1
22	50-0157T	Thrust Washer, TRB-1220	2
23	50-0158	Roller Bearing	1
24	50-0160	Set Screw	2
25	50-0223	Set Screw	2
26	50-0287	Roll Pin	1
27	50-0483	Roller Bearing	1
28	50-0686	Bearing	1
29	50-0687	Thrust Washer	2

Failsafe Air Operator (40-3963)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1123	O-Ring	1
2	23-1356	O-Ring	1
3	23-1385	O-Ring	1
4	23-1404	O-Ring	1
5	23-1405	O-Ring	1
6	40-0414	Adapter Plate	1
7	40-0416	Failsafe Collar	1
8	40-0418	Failsafe Handle	1
9	40-0715	Hydraulic Adapter	1
10	40-0719	Motor, Failsafe Hydraulic	1
11	40-2742	Worm	1
12	40-3960	Failsafe Shaft	1
13	40-3962	Housing, KR Shaft Adjustment	1
14	40-3964	Failsafe Nut Assy	1
15	40-4978	Failsafe Body	1
16	40-4979	Worm Gear	1
17	50-0072	Screw	6
18	50-0103	Lock Washer	3
19	50-0154	Roll Pin	1
20	50-0156	Screw	1
21	50-0157B	Bearing	1
22	50-0157T	Thrust Washer	2
23	50-0158	Roller Bearing	1
24	50-0160	Set Screw	2
25	50-0215	Screw	4
26	50-0223	Set Screw	2
27	50-0483	Roller Bearing	1
28	50-0686	Thrust Bearing, NTA-2435	1
29	50-0687	Thrust Washer, TRF-2435	2

Failsafe Hydraulic Operator (40-4255)

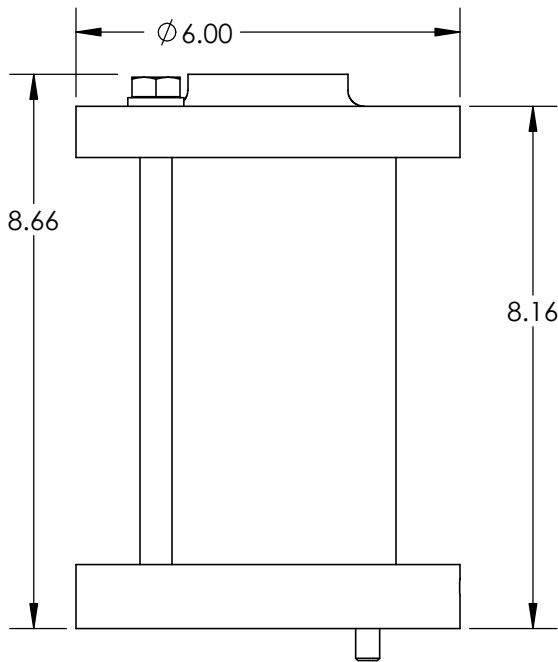
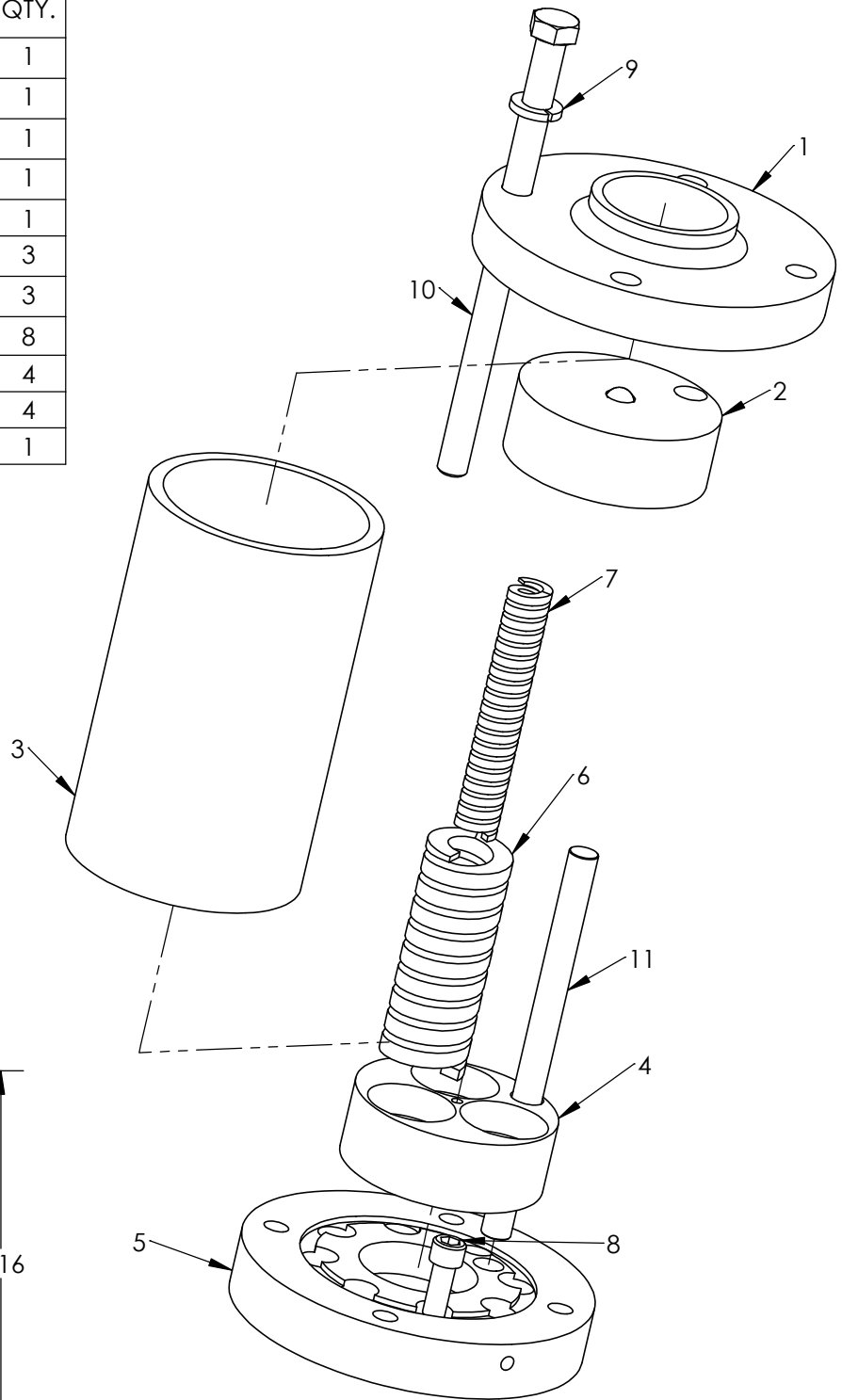


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TITLE Failsafe Air and Hydraulic Operators Assembly Drawing

SIZE A	REV 7
SHEET 18 OF 26	

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

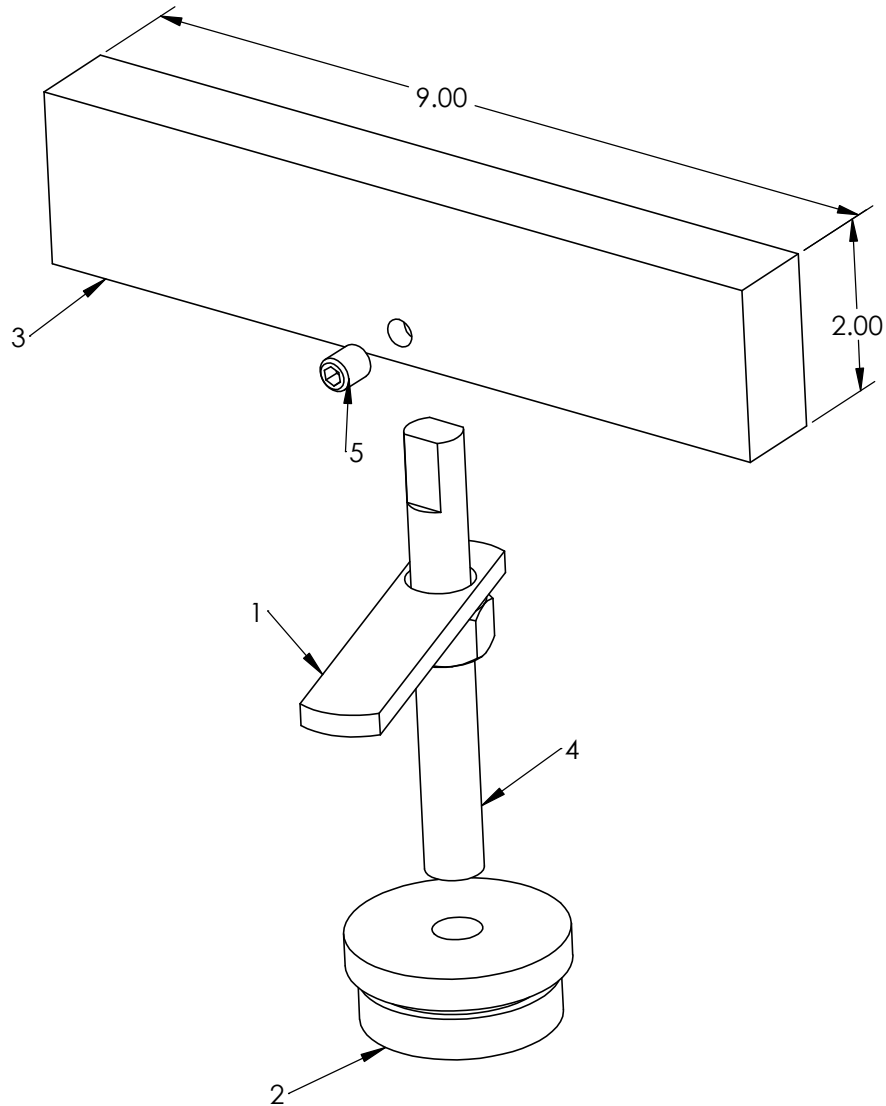


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TITLE
**High Pressure Output
Adjustment Head
Assembly Drawing**

SIZE A	REV 7
SHEET 19 OF 26	

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

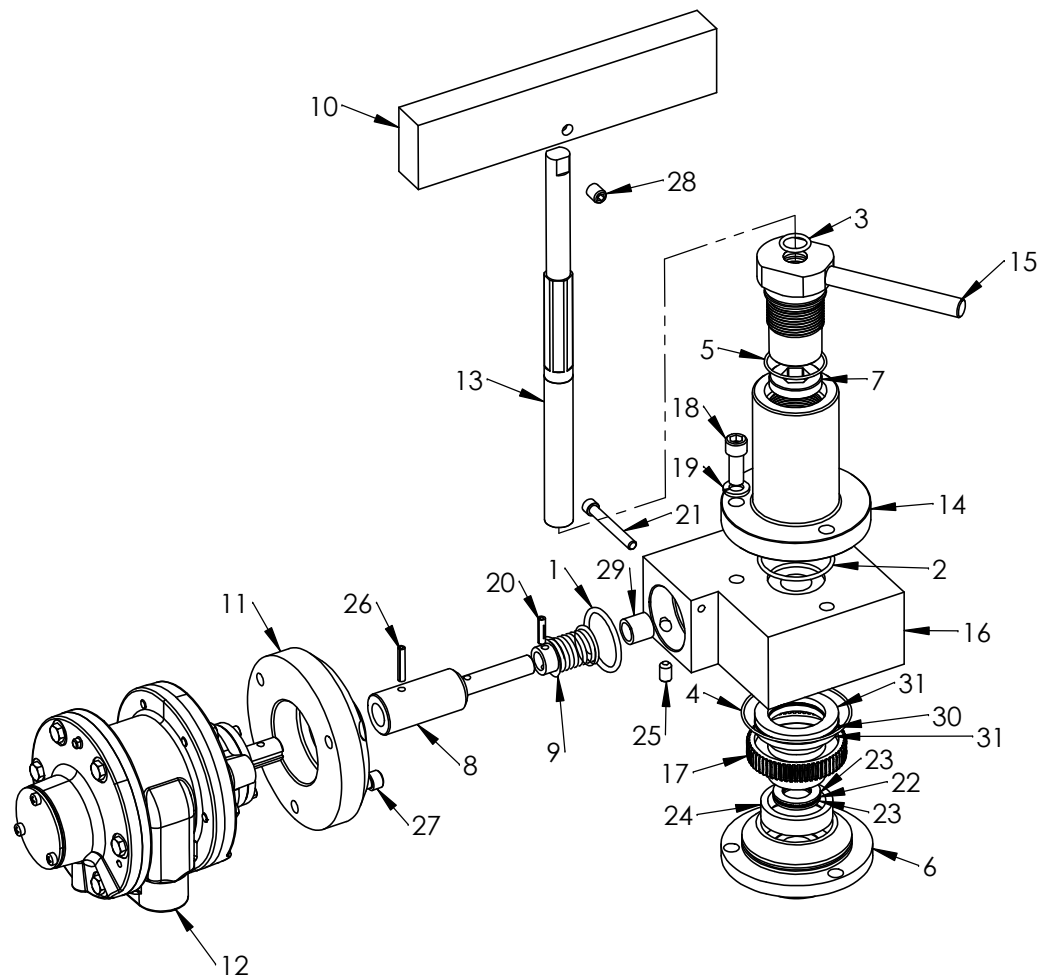


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TITLE High Pressure Output Manual Handle Assembly Drawing

SIZE	REV
A	7

**High Pressure Output Failsafe Air Actuator
(40-4982) with High Torque Motor**
Used exclusively with "H" and "W" Regulators



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1123	O-Ring	1
2	23-1356	O-Ring	1
3	23-1385	O-Ring	1
4	23-1404	O-Ring	1
5	23-1405	O-Ring	1
6	40-0414	Adapter Plate, FailSafe	1
7	40-0416	Fail Safe Collar	1
8	40-0716	Shaft Extension	1
9	40-2742	Worm	1
10	40-3237	Handle, Fail Safe HP	1
11	40-3757	Adapter Plate	1
12	40-3761	Air Motor	1
13	40-3960	Fail Safe Shaft	1
14	40-3962	Housing	1
15	40-3964	Fail Safe Nut Assy	1
16	40-4978	Fail Safe Body	1
17	40-4979	Worm Gear, FailSafe	1
18	50-0072	Screw	6
19	50-0103	Lock Washer	3
20	50-0154	Roll Pin	1
21	50-0156	Screw	1
22	50-0157B	Bearing	1
23	50-0157T	Thrust Washer	2
24	50-0158	Roller Bearing	1
25	50-0223	Set Screw	2
26	50-0287	Roll Pin	1
27	50-0319	Screw	3
28	50-0482	Set Screw	2
29	50-0483	Roller Bearing	1
30	50-0686	Thrust Bearing	1
31	50-0687	Thrust Washer	2



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TITLE

**High Pressure Output
Failsafe Air Operators
Assembly Drawing**

SIZE

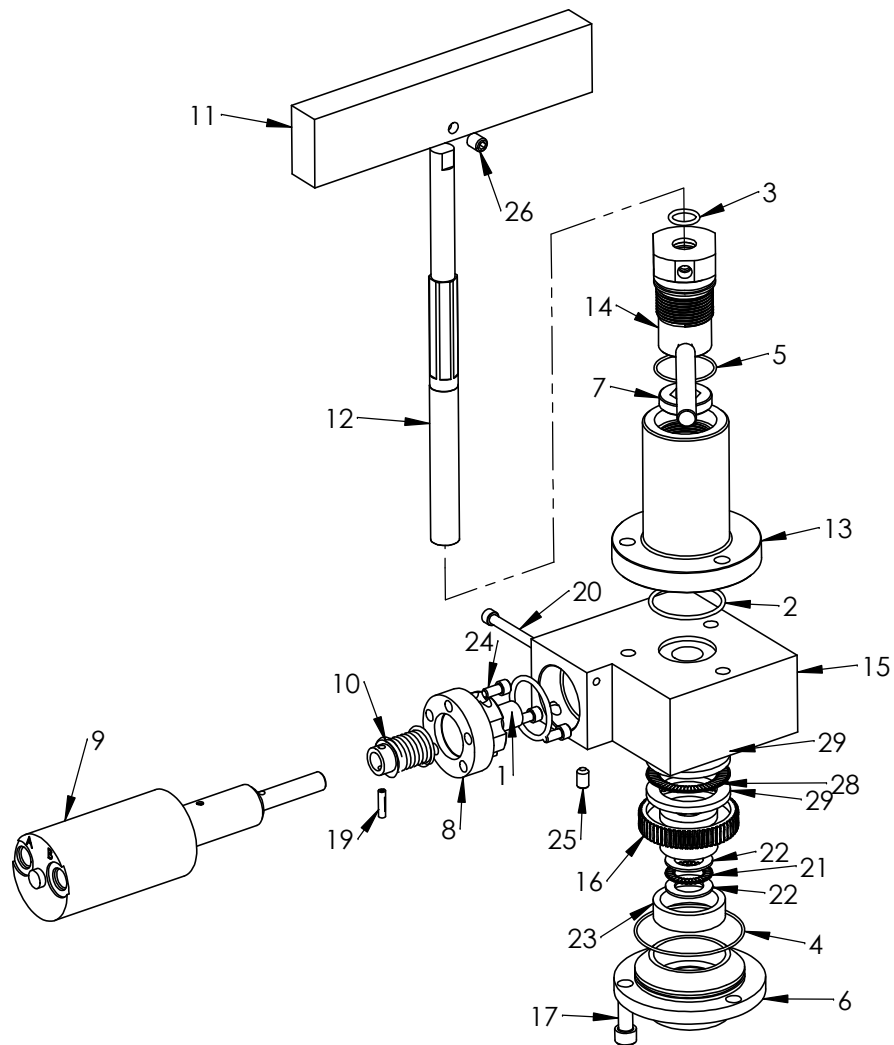
A

REV

7

SHEET 21 OF 26

**High Pressure Output Failsafe Hydraulic Actuator
(40-4981) with High Torque Motor**
Used exclusively with "H" and "W" Regulator



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1123	O-Ring	1
2	23-1356	O-Ring	1
3	23-1385	O-Ring	1
4	23-1404	O-Ring	1
5	23-1405	O-Ring	1
6	40-0414	Adapter Plate	1
7	40-0416	Fail Safe Collar	1
8	40-0715	Hydraulic Adapter	1
9	40-0719	Motor, Hydraulic	1
10	40-2742	Worm	1
11	40-3237	Handle, Fail Safe HP	1
12	40-3960	Fail Safe Shaft	1
13	40-3962	Housing	1
14	40-3964	Fail Safe Nut Assy	1
15	40-4978	Fail Safe Body	1
16	40-4979	Worm Gear	1
17	50-0072	Screw	6
18	50-0103	Lock Washer	3
19	50-0154	Roll Pin	1
20	50-0156	Screw	1
21	50-0157B	Bearing	1
22	50-0157T	Thrust Washer	2
23	50-0158	Roller Bearing	1
24	50-0215	Screw	5
25	50-0223	Set Screw	2
26	50-0482	Set Screw	2
27	50-0483	Roller Bearing	1
28	50-0686	Thrust Bearing	1
29	50-0687	Thrust Washer	2



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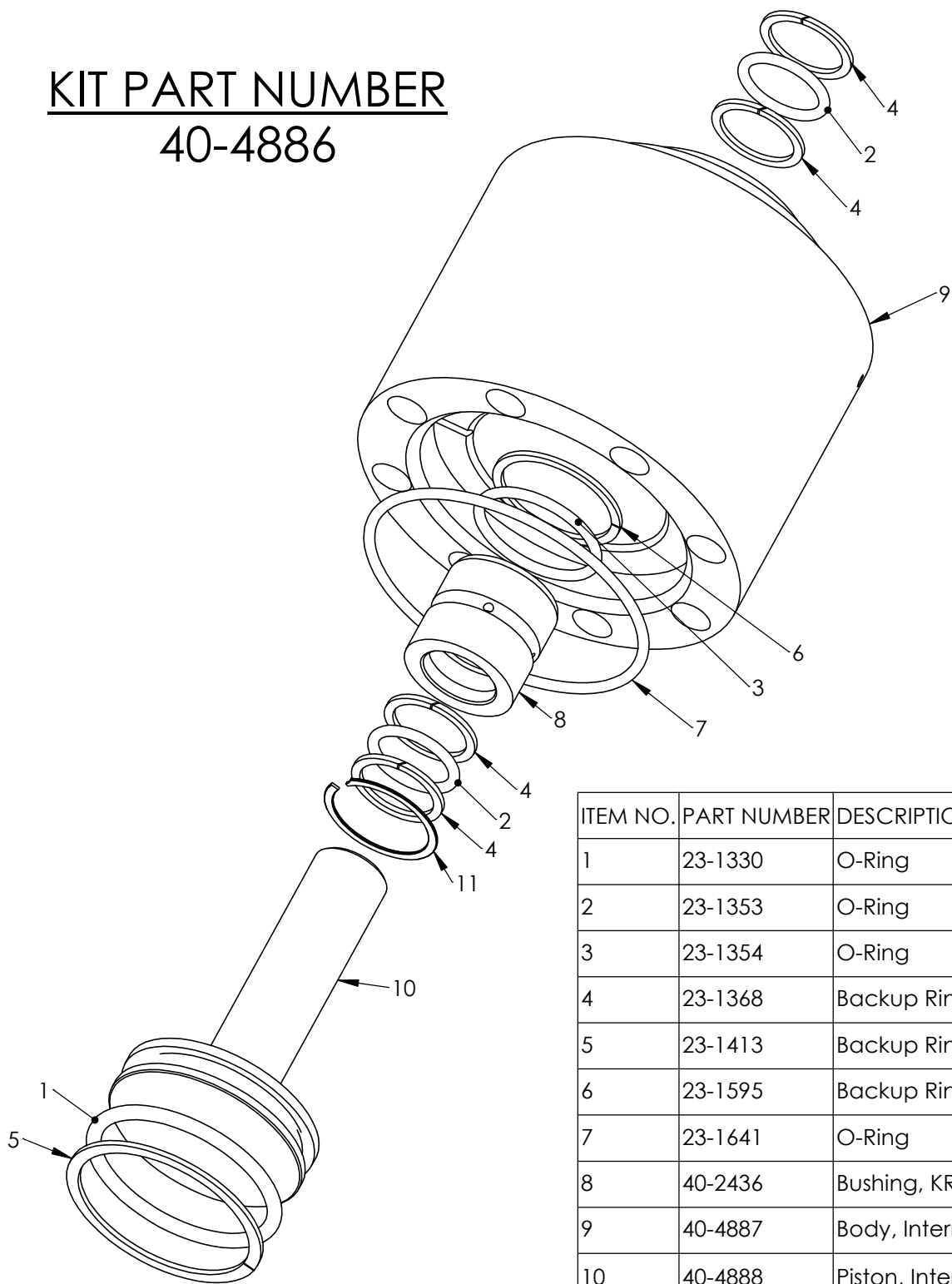
TITLE
**High Pressure Output
Failsafe Hydraulic Operator
Assembly Drawing**

SIZE
A

REV
7

SHEET 22 OF 26

KIT PART NUMBER
40-4886



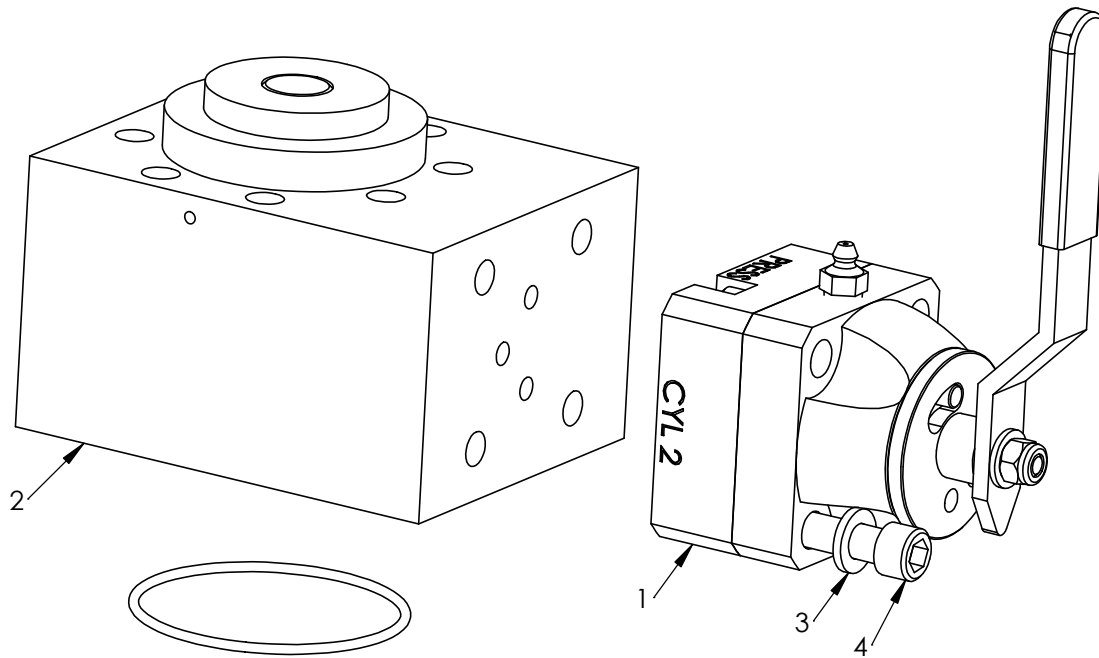
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	23-1330	O-Ring	1
2	23-1353	O-Ring	2
3	23-1354	O-Ring	1
4	23-1368	Backup Ring	4
5	23-1413	Backup Ring	1
6	23-1595	Backup Ring	1
7	23-1641	O-Ring	1
8	40-2436	Bushing, KR-75/140 Int Override	1
9	40-4887	Body, Internal Override	1
10	40-4888	Piston, Internal Override	1
11	50-0409	Retaining Ring	1



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TITLE Internal Override Bypass Direct Operation Assembly Drawing

SIZE A	REV 7
SHEET 23 OF 26	



KIT PART NUMBER
40-4899

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	40-3301	SV-25 Open Center	1
2	40-4895	Internal Override, KR-75/140/150/200	1
3	50-0103	Lock Washer	4
4	50-0338	SHCS	4



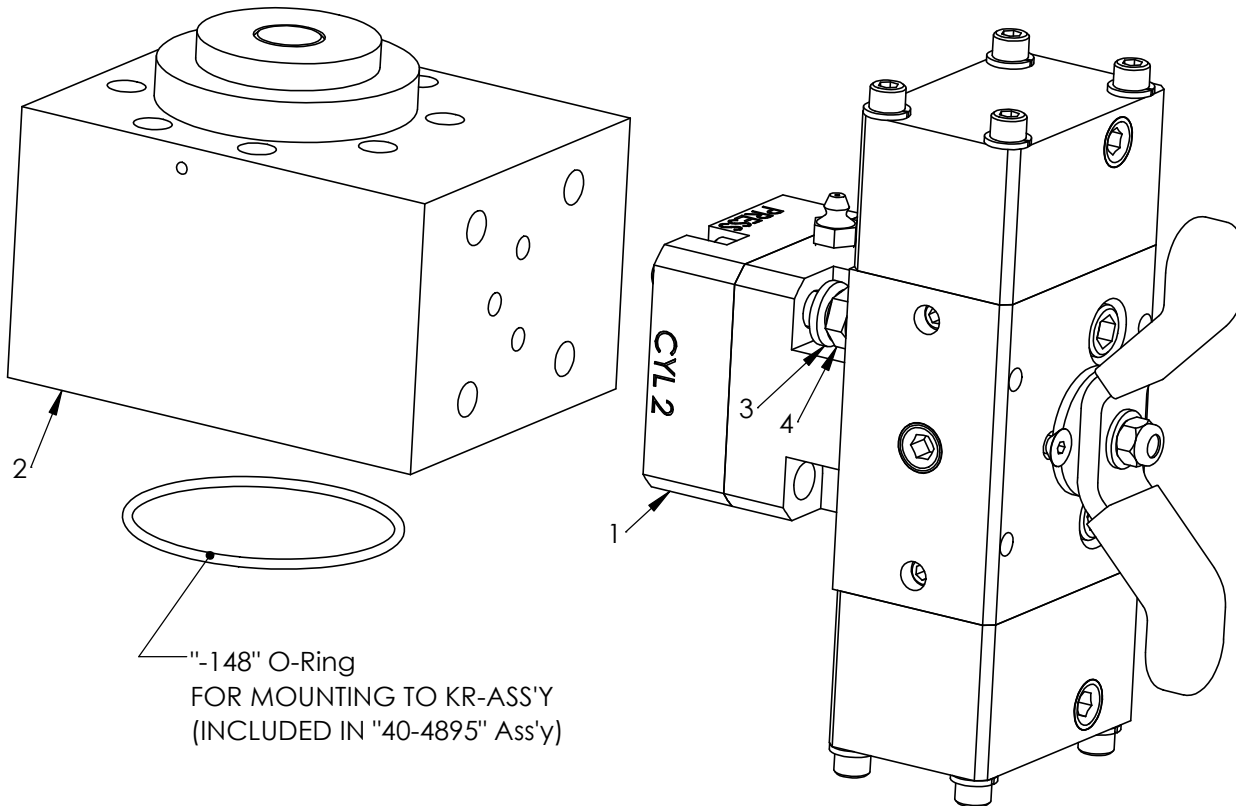
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TITLE
**Internal Override
Bypass w/ SV-25
Assembly Drawing**

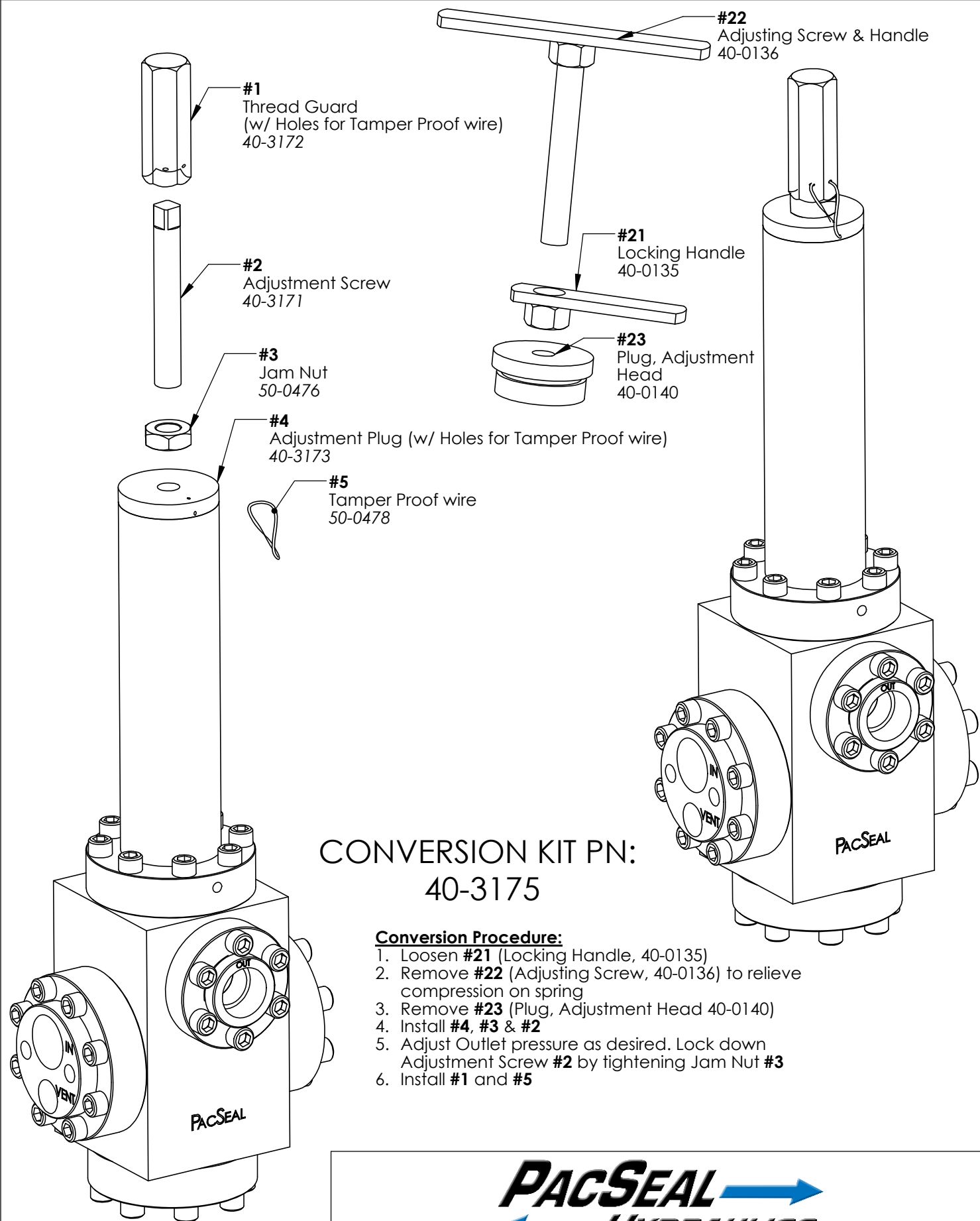
SIZE A	REV 7
SHEET 24 OF 26	

KIT PART NUMBER
40-4894

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	40-4549	SVx-25 Open Center, 2-Pos 45° CW	1
2	40-4895	Internal Override, KR-75/140/150/200	1
3	50-0103	Lock Washer	4
4	50-0291	Bolt	4



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		<p>SHEET 25 OF 26</p>	



CONVERSION KIT PN:
40-3175

Conversion Procedure:

1. Loosen **#21** (Locking Handle, 40-0135)
2. Remove **#22** (Adjusting Screw, 40-0136) to relieve compression on spring
3. Remove **#23** (Plug, Adjustment Head 40-0140)
4. Install **#4**, **#3** & **#2**
5. Adjust Outlet pressure as desired. Lock down Adjustment Screw **#2** by tightening Jam Nut **#3**
6. Install **#1** and **#5**



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TITLE
Tamper Proof Conversion Kit

SIZE A	REV 7
SHEET 26 OF 26	