

KR-140 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	1-1/2 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	14.9		
Cv Factor Vent	2.8		
Rated Flow	150 gpm		
Temperature Rating (Regulators and Failsafe Air Motors)	-40° to 250°F		
Fluid Media	Hydraulic oil or lubricated water ¹		
Weight	See installation drawings		
N	Naterials		
ShearFlo Sealing Components (i.e. Rotor and Seal Rings)	400 series hardened stainless steel ¹		
Body	Carbon Steel		
Flanges and Operators	Carbon Steel		
Hardware	Coated Carbon Steel		
O-rings	Buna-N (N), Viton (V), or EPR (E)		
Backup Rings	Teflon		

For water based media, special alloy seal rings may be required for optimum perfomance and durability - Contact PacSeal for details.

	Supply	Regulated	Deadand
Model	Pressure	Outlet Pressure	Range
	[psi]	[psi]	[psi]*
L	3000/5000	200-2000	85-150
R	3000/5000	550-2500	300-600
Н	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
Р	3000/5000/ 6000	50-6000	0-100

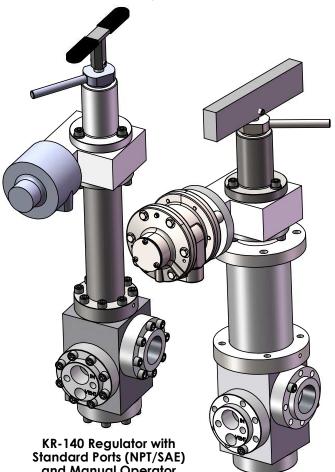
*Deadband is the difference between the set pressure and the actual outlet pressure that triggers the KR to open or vent. The deadband will vary depending on factors that influence the friction between the seal rings and flow plates, such as: type of fluid and lubricity properties, temperature, differential 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.

						10 Kegerarere
	Model Number Configurator					
Basic Model	Ports	Supply Pressure	Regulated Out	let Pressure	Operator	Internal Override
			Rated Range ²	<u>Deadband</u>		Bypass
	N NPT	3 3000 psi	L 200-2000 psi	85-150 psi	M Manual	-IO Direct
	S SAE	5 5000 psi	R 550-2500 psi	300-600 psi	FSA Failsafe Air Motor	-IS with SV-25
	M Subplate Mount (NPT)	5 5000 psi	H 350-3300 psi	85-150 psi	FSH Failsafe Hydraulic Motor	-IX with SVx-25
KR-140	T Subplate Mount (SAE) ¹	6 6000 psi	D 400-4000 psi	150-250 psi		
	C Code-61 ¹	6 6000 psi	W 600-5000 psi	150-250 psi	_	Leave blank if
	D Code-62 ¹	• 0000 psi	V 1200-5500 psi	450-800 psi		Leave blank II 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. Absolute Outlet Pressure is 0 psi up to 25% above the maximum operating pressure.

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



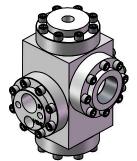
and Manual Operator Example: KR-140N3LFSA

KR-140 Regulator with **High Pressure Low** Deadband and Failsafe **Air Motor Operator** Example: KR-140N5HFSA

KR-140 Regulator with Subplate Mount (NPT/SAE) and Manual Operator

KR-140 Regulator with Failsafe Hydraulic **Motor Operator**

Example: KR-140S3RFSH



KR-140 Regulator with Hydraulic Pilot Operator Example: KR-140N6PH



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Example: KR-140M6VM

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TITLE

Configuration Overview

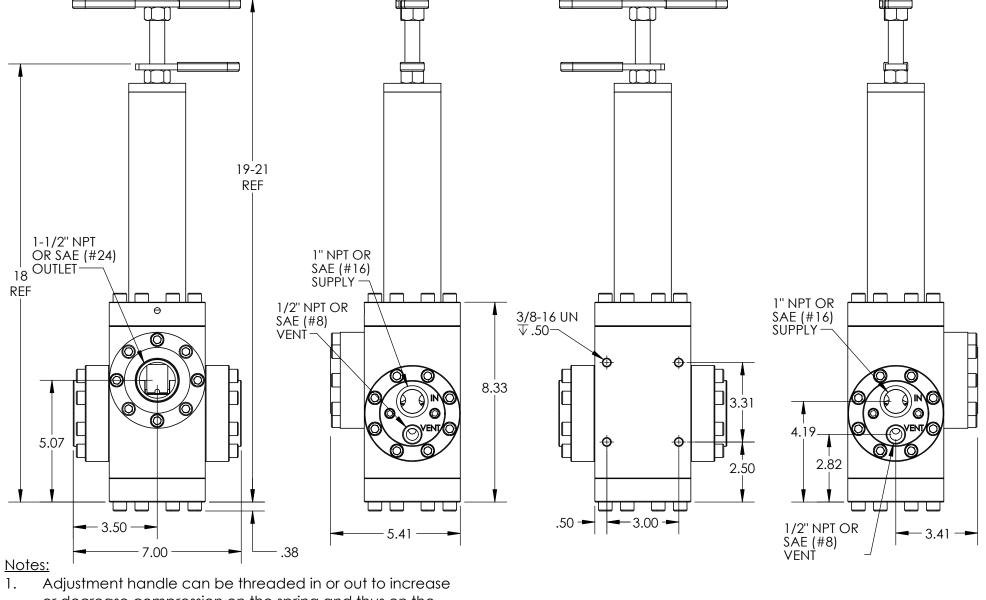
SIZE **REV**

KR-140 Regulator with Direct Internal

> Override Example:

KR-140N3LM-IO

SHEET 3 OF 25



- 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: D, L, R, V
- 3. Weight 50 lb.
- 4. All dimensions are consistent for KR-140 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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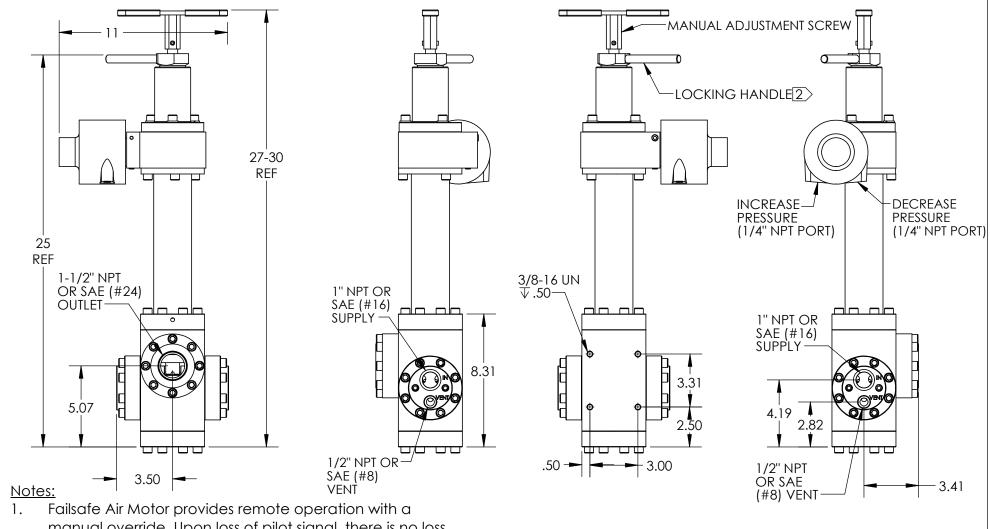
KR-140 Regulator w/
Manual Operator (NPT/SAE)
Installation Drawing

SIZE REV A 4

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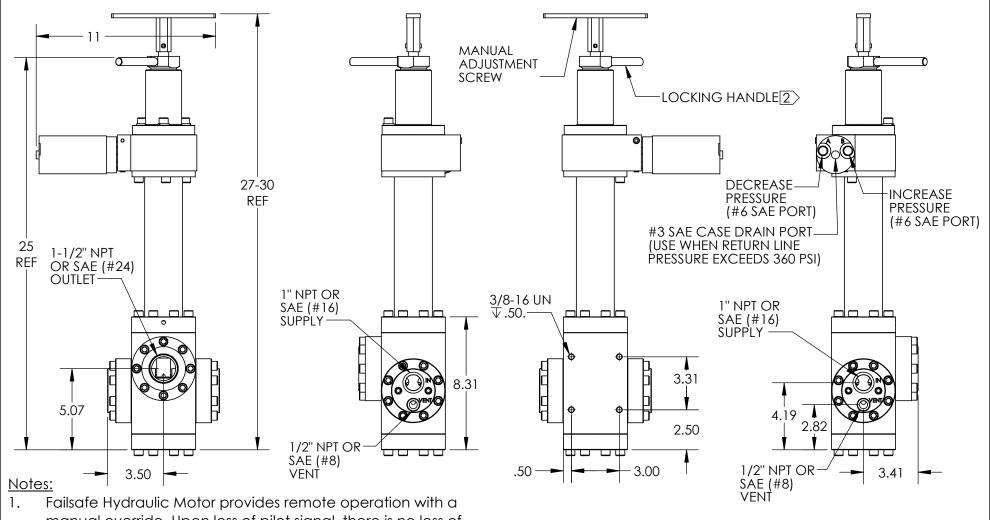
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- manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
- Turn locking handle clockwise to lock for failsafe remote operation. Turn locking handle counter-clockwise to unlock for manual operation/override.
- Recommended Air Supply 80 to 130 PSI
- Model configuration (Regulated Outlet Pressure) options: D, L, R, V
- Weight 79 lb. 5.
- All dimensions are consistent for KR-140 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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- Failsafe Hydraulic Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
- 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
- Model configuration (Regulated Outlet Pressure) options:
 D, L, R, V
- 5. Weight 75 lb.
- 6. All dimensions are consistent for KR-140 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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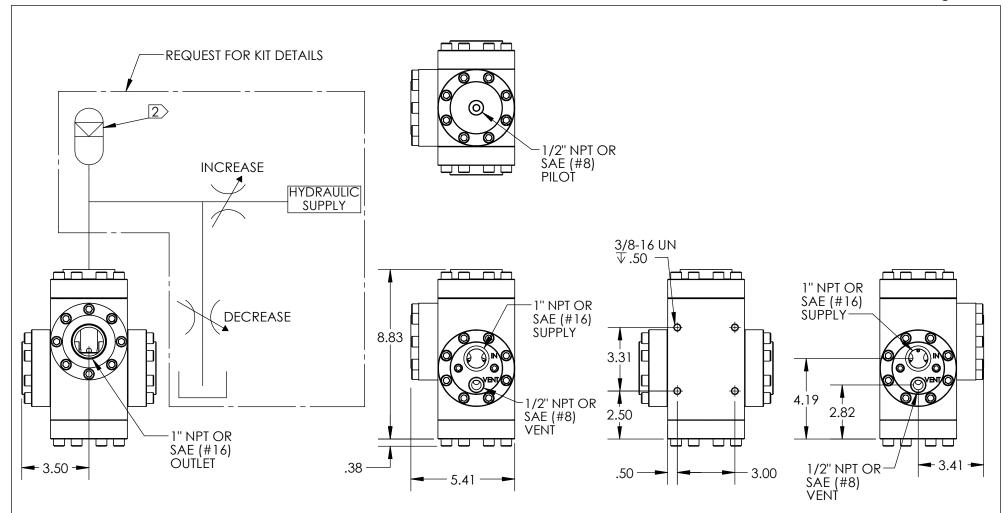
Regulator w/ Failsafe
Hydraulic Operator
(NPT/SAE)
Installation Drawing

SIZE REV A 4 SHEET 6 OF 25

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- 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 Requires a minimum 1 Pint Accumulator for operation
- 3. Model configuration (Regulated Outlet Pressure) option: P
- 4. Weight 42 lb.
- 5. All dimensions are consistent for KR-140 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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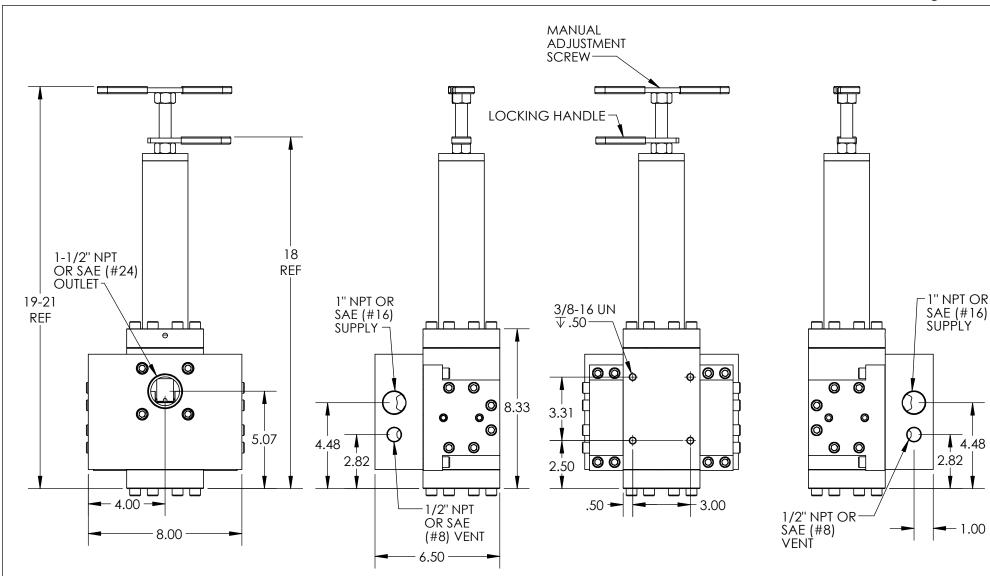
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Regulator w/ Hydraulic Pilot Operator (NPT/SAE) Installation Drawing

SIZE REV 4 SHEET 7 OF 25

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- 1. Operator options: Manual, FSA, FSH, or Hydraulic Pilot
- 2. Model configuration (Regulated Outlet Pressure) options: L, R, V, E, D
- 3. Weight 85 lb.
- 4. All dimensions are consistent for KR-140 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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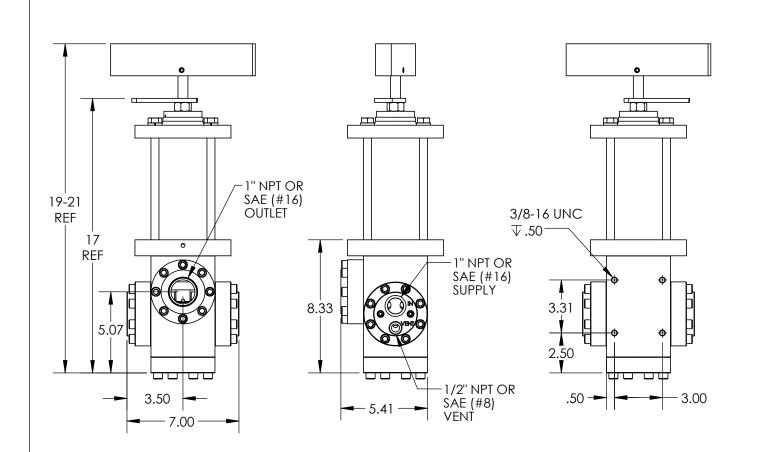
(NPT/SAE) Regulator Installation Drawing SIZE REV A 4 SHEET 8 OF 25

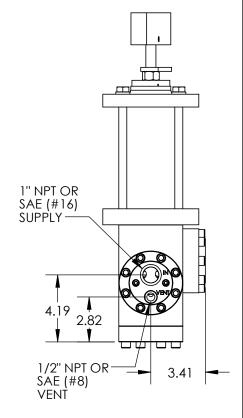
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- Adjustment handle can be threaded in or out to increase or decrease compression on the spring and thus on the regulated outlet pressure.
- 2. Model configuration (Regulated Outlet Pressure) options: H (5000/6000 psi supply) and W (6000 psi supply).
- 3. Weight 74 lb.
- All dimensions are consistent for KR-140 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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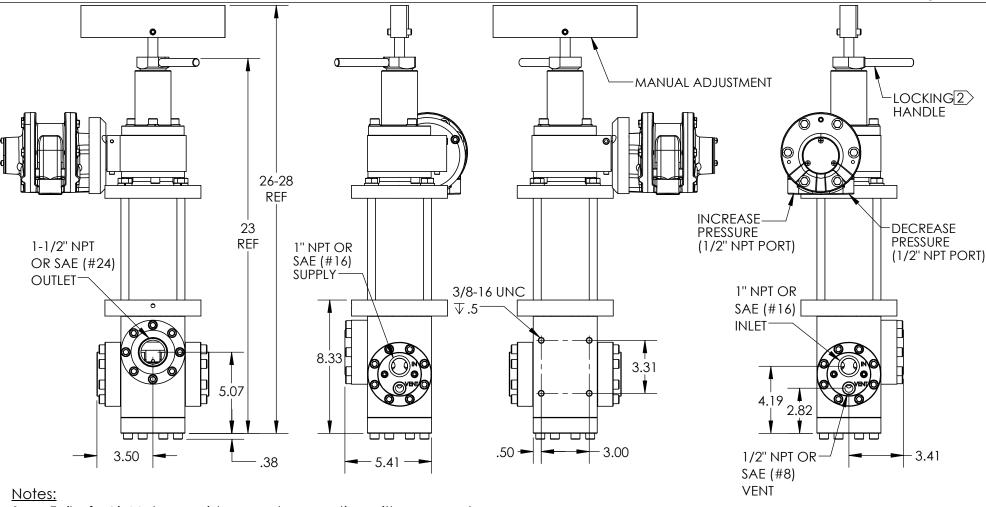
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High Pressure
Ouput w/
Manual Operator

SIZE REV A 4 SHEET 9 OF 25



- Failsafe Air Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
- 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 80 to 130 PSI
- Model configuration (Regulated Outlet Pressure) option:
 H (5000 psi supply) and W (6000 psi supply)
- 5. Weight 119 lb.
- 6. All dimensions are consistent for KR-140 NPT or SAE ORB porting options, regardless of supply/outlet pressure and operator selection.



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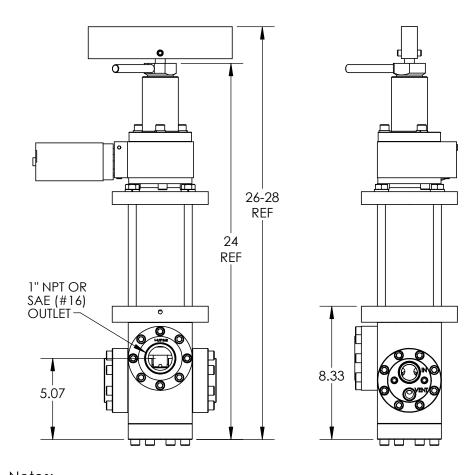
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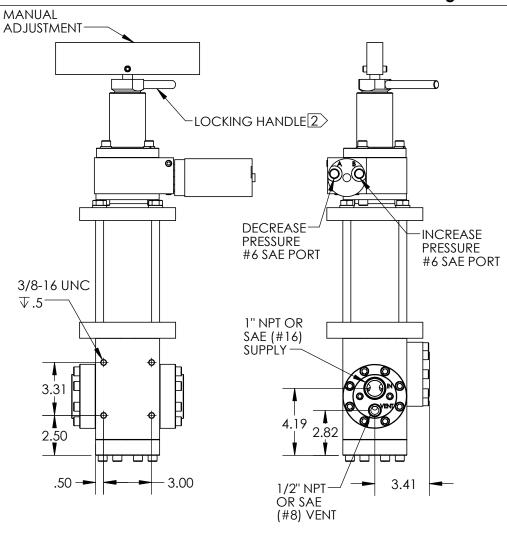
Regulator w/ High Torque
Failsafe Air Operator

SIZE REV A 4 SHEET 10 OF 25



<u>Notes:</u>

- Failsafe Hydraulic Motor provides remote operation with a manual override. Upon loss of pilot signal, there is no loss of regulated outlet pressure.
- 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 98 lb.
- All dimensions are consistent for KR-140 NPT or SAE porting options, regardless of supply/outlet pressure and operator selection.





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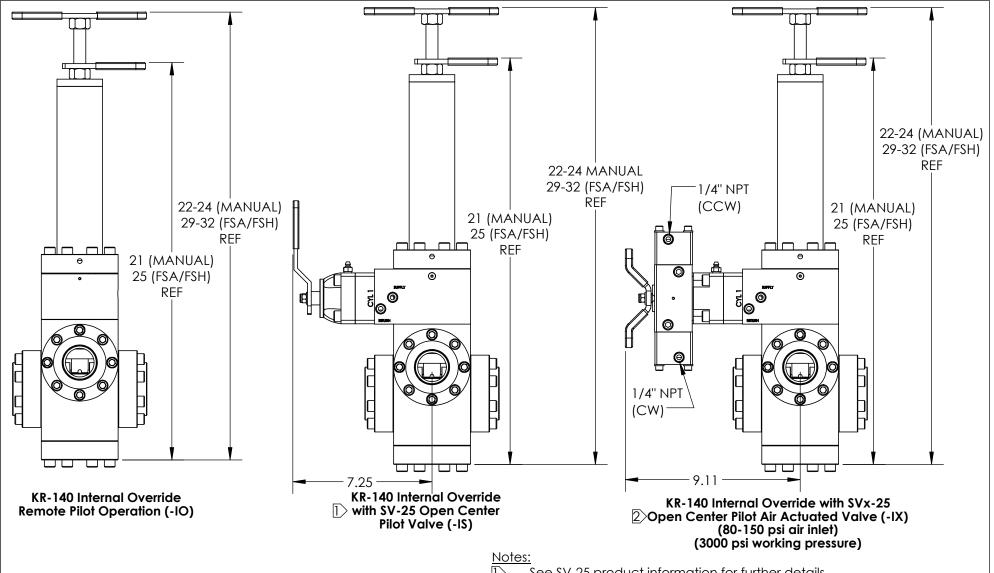
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High Pressure Ouput
Regulator w/ Failsafe
Hydraulic Operator

SIZE REV A
4
SHEET 11 OF 25



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.

- See SV-25 product information for further details
- See SVx-25 product information for further details
- Regulated outlet pressure options: D, L, R, V



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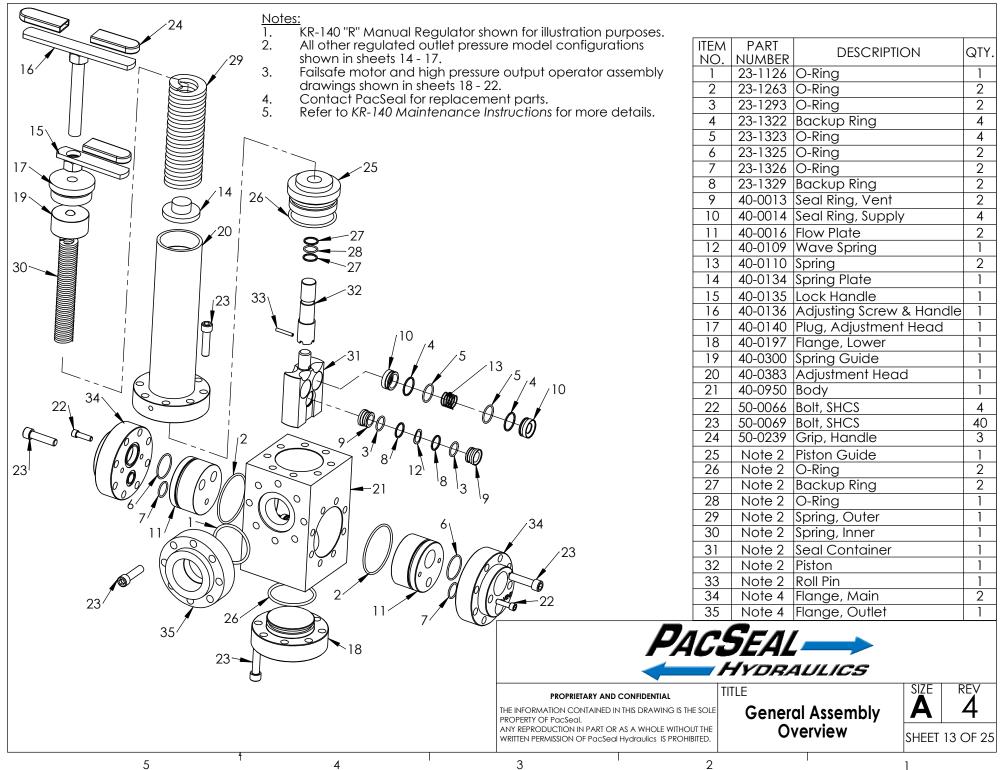
TITLE

Internal Override Options 🗛 **Installation Drawing**

SIZE REV

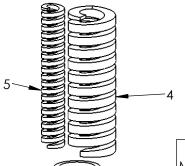
SHEET 12 OF 25

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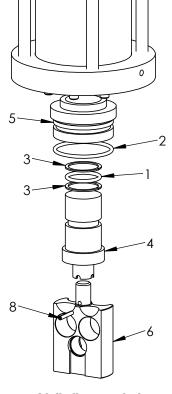




The listed components vary based on Supply and Regulated Outlet Pressures, while all other components (shown in sheet 13 "General Assembly Overview") are shared.



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



KR-140 "L" Regulator

KR-140 "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	40-0995	Piston, L	1
7	40-0996	Plunger Guide, L	1
8	40-1292	Seal Container	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	40-0995	Piston, L	1
5	40-0996	Piston Guide, L	1
6	40-1292	Seal Container	1
7	40-2927	High Pressure Output Adj. Head	1
8	50-0117	Roll Pin	1



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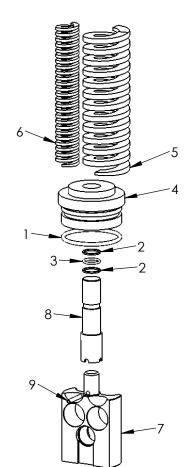
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L and H Model Configurations **Assembly Drawing**

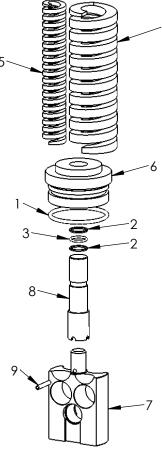
SIZE **REV**

SHEET 14 OF 25

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



Model	Supply Pressure (psi)	Regulated Outlet Pressure (psi)	Deadband (psi)
R	3000/5000	550-2500	300-600
٧	6000	1200-5500	450-800



KR-140 "V" Regulator

KR-140 "R" 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	40-0186	Piston Guide, R	1
5	40-0189	Spring, Outer	1
6	40-0190	Spring, Inner	1
7	40-1292	Seal Container	1
8	40-2875	Piston, R	1
9	50-0117	Roll 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	40-0143	Spring, Outer	1
5	40-0144	Spring, Inner	1
6	40-0186	Piston Guide, R	1
7	40-1292	Seal Container	1
8	40-2875	Piston, R	1
9	50-0117	Roll Pin	1



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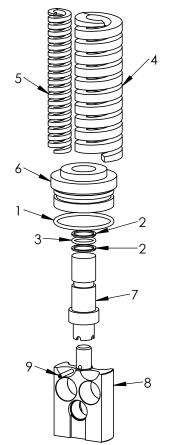
TITLE R and V Model **Configurations**

SIZE

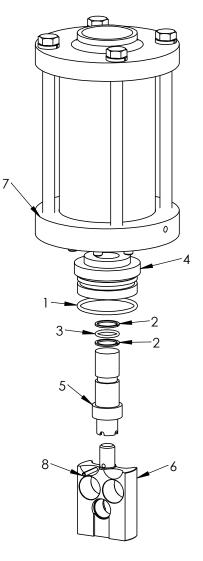
REV

Assembly Drawing SHEET 15 OF 25

The listed components vary based on Supply and Regulated Outlet Pressures, while all other 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-140 "W" Regulator with High Pressure Output KR-140 "D" Regulator 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	40-0143	Spring, Outer	1
5	40-0144	Spring, Inner	1
6	40-1076	Piston Guide, D	1
7	40-1077	Piston, D	1
8	40-1292	Seal Container	1
9	50-0117	Roll Pin	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	40-1076	Piston Guide, D	1
5	40-1077	Piston, D	1
6	40-1292	Seal Container	1
7	40-2927	High Pressure Output Adj. Head	1
8	50-0117	Roll Pin	1



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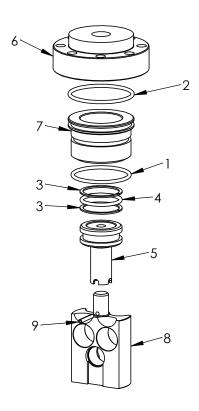
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TITLE D and W Model Configurations Assembly Drawing SHEET 16 OF 25

SIZE **REV**

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



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

KR-140 "P" Regulator (Hydraulic Pilot)

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	40-0183	Piston, A/H	1
6	40-0298	Hydraulic Head	1
7	40-0299	Piston Guide	1
8	40-1292	Seal Container	1
9	50-0117	Roll Pin	1



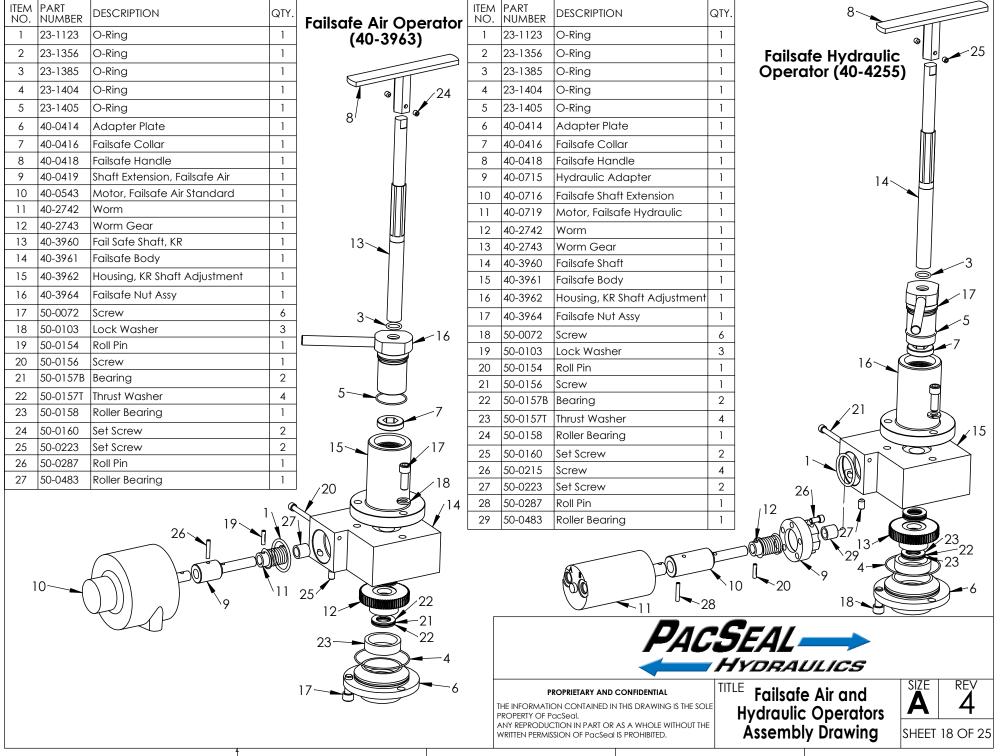
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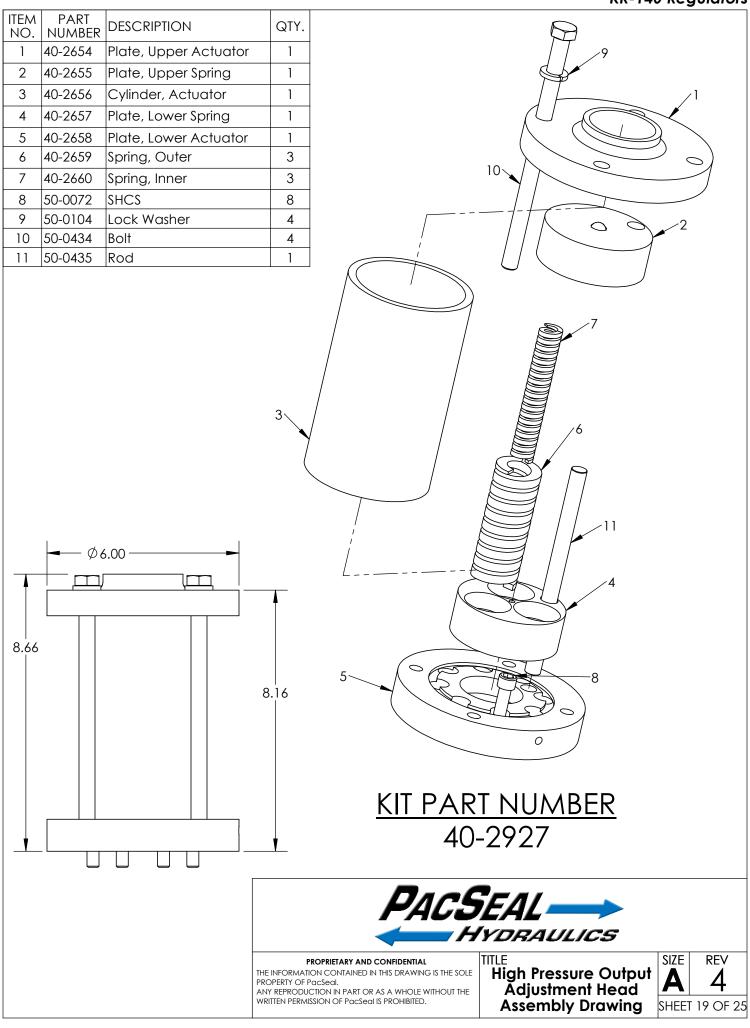
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TITLE P Model Configuration Assembly Drawing SHEET 17 OF 25

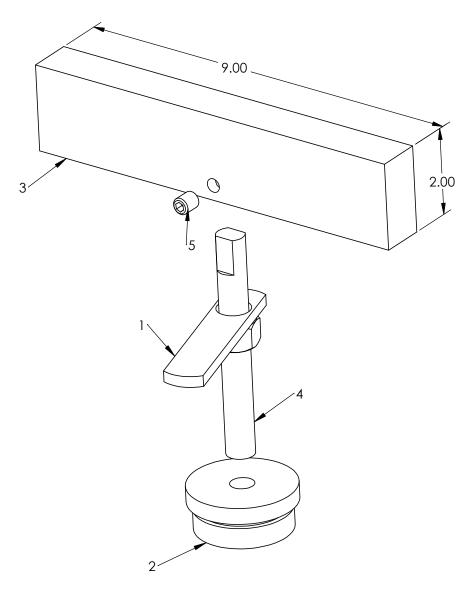
SIZE **REV**



5 4 2



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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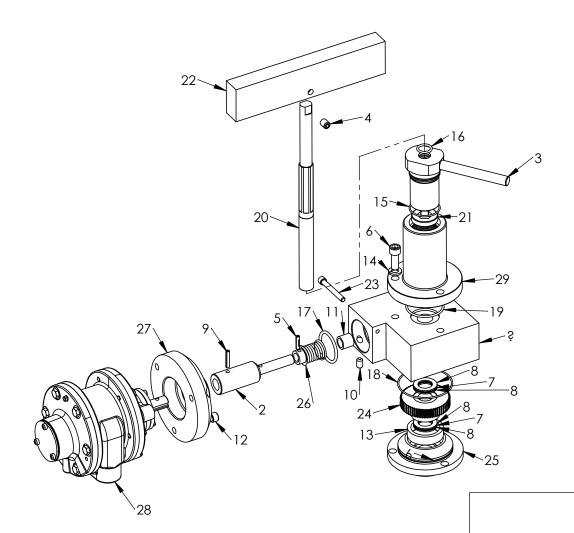
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TITLE
High Pressure Output
Manual Handle
Assembly Drawing

SIZE REV A 4 SHEET 20 OF 25

High Pressure Output Failsafe Air Actuator (40-4280) with Standard Motor Used exclusively with "H" and "W" Regulators



5

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	Collar	1
8	40-0716	Shaft Extension, Air	1
9	40-2742	Worm	1
10	40-2743	Worm Gear	1
11	40-3237	Handle, High Torque	1
12	40-3757	Adapter Plate	1
13	40-3761	Motor, Air High Torque	1
14	40-3960	Shaft	1
15	40-3961	Body	1
16	40-3962	Housing	1
17	40-3964	Failsafe Nut Ass'y	1
18	50-0072	Bolt	6
19	50-0103	Lock Washer	3
20	50-0154	Roll Pin	1
21	50-0156	Bolt	1
22	50-0157B	Bearing	2
23	50-0157T	Thrust Washer	4
24	50-0158	Roller Bearing	1
25	50-0223	Bolt	2
26	50-0287	Roll Pin	1
27	50-0319	Bolt	3
28	50-0482	Set Screw	2
29	50-0483	Roller Bearing	1



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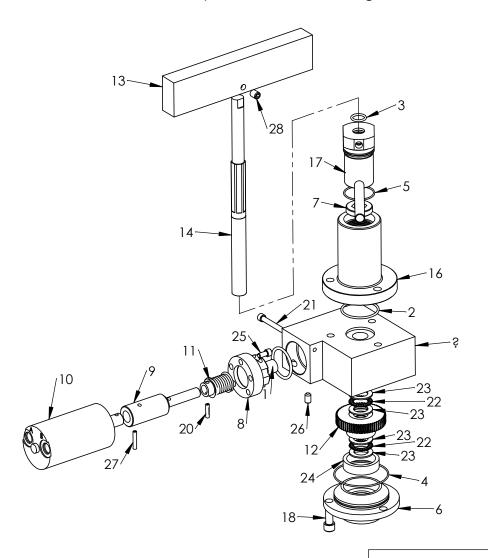
TITLE

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

REV

SHEET 21 OF 25

High Pressure Output Failsafe Hydraulic Actuator (40-4284) with High Torque Motor Used exclusively with "H" and "W" Regulator



5

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	Collar	1
8	40-0715	Hydraulic Adapter	1
9	40-0716	Shaft Extension, Hydraulic	1
10	40-0719	Motor, Hydraulic	1
11	40-2742	Worm	1
12	40-2743	Worm Gear	1
13	40-3237	Handle, High Torque	1
14	40-3960	Shaft	1
15	40-3961	Body	1
16	40-3962	Housing	1
17	40-3964	Failsafe Nut Ass'y	1
18	50-0072	Bolt	6
19	50-0103	Lock Washer	3
20	50-0154	Roll Pin	1
21	50-0156	Bolt	1
22	50-0157B	Bearing	2
23	50-0157T	Thrust Washer	4
24	50-0158	Roller Bearing	1
25	50-0215	Bolt	4
26	50-0223	Set Screw	2
27	50-0287	Roll Pin	1
28	50-0482	Set Screw	2
29	50-0483	Roller Bearing	1



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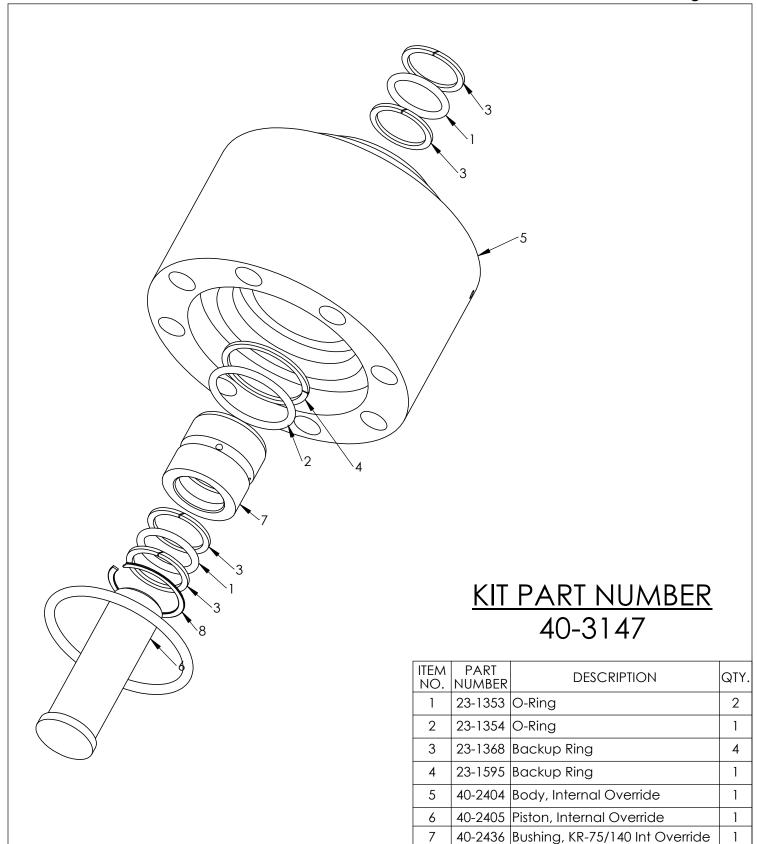
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TITLE

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

REV

SHEET 22 OF 25





50-0409 Retaining Ring

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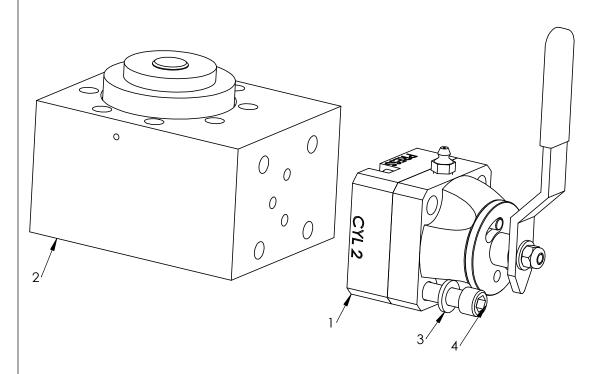
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TITLE Internal Override **Bypass Direct Operation Assembly Drawing**

SIZE

REV SHEET 23 OF 25

1



KIT PART NUMBER 40-3463

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	40-3301	SV-25 Open Center	1
2	40-3459	Internal Override, KR-75	1
3	50-0103	Lock Washer	4
4	50-0338	SHCS	4



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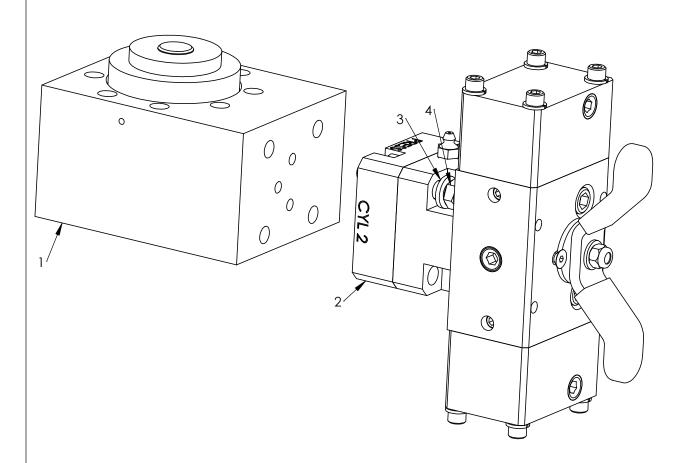
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Internal Override
Bypass w/ SV-25
Assembly Drawing

SIZE

REV SHEET 24 OF 25

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	40-3459	Internal Override, KR-75	1
2	40-4549	SVx-25 Open Center, 2-Pos 45° CW	1
3	50-0103	Lock Washer	4
4	50-0291	Bolt	4



KIT PART NUMBER 40-3561



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TITLE

Internal Override Bypass w/ SVx-25 Assembly Drawing

SIZE

REV SHEET 25 OF 25