

1" GEN2 Pressure Regulator, Manual Spring

REV	DATE	DESCRIPTION	ORIGIN (issued by)	APPROVED
Rev 001	09/01/20	Document No: 135-090120-001	AP	BR

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For more information:

Call (800) 469-8786 info@gilmore.com

Gilmore 1231 Lumpkin Road Houston, TX 77043



1" GEN2 Pressure Regulator, Manual Spring

Gilmore announces the new 1" GEN 2 Pressure Regulator with Manual Spring product line for critical offshore and subsea applications. The GEN 2 Pressure Regulator has been designed with the same footprint as the legacy Gilmore Manual Spring Regulators. This thoroughly redesigned product offering provides an improvement in cycle life and performance.

Features and Benefits:

- Qualification exceeds API 16D requirements 10,000 cycles at full flow rates and pressures
- Guided hydraulic dampening technology
- Improved deadband performance
- Refined Tungsten Carbide seal trim
- Enhanced bolted plunger guide
- Upgraded dynamic plunger T-Seal
- CRA Material Construction
- Threaded seal carrier alignment
- SAE Gauge and Auxiliary ports
- Vented spring housing for multi-directional drainage
- Performance Data available
- US Patent #10,739,796.



Figure 1. PN 29090: 1" Code 62 GEN 2 Pressure Regulator, Manual Spring, 1-1/2" Outlet, Dual 1" Inlets, 3500 – 1500 psi range

The new Gilmore 1" GEN 2 Manual Spring Regulators are now available for purchase. Gilmore will be creating other dropin 1" GEN 2 Manual Spring Pressure Regulator configurations as required. The new Gilmore 1" GEN 2 Manual Spring Regulators have identical footprints to their equivalent legacy regulators.

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1" GEN2 Pressure Regulator, Manual Spring

Gilmore has exceeded API 16D requirements by qualifying the new 1" GEN 2 Manual Spring Regulator designs to 10,000 cycles, at a starting flow rate of 125 gpm per inlet, at 5000 psi, with 1% - 4% water glycol test fluid. Their qualification report is available by request.

Note that Gilmore will continue to sell and support the legacy 1" Manual Spring Regulators with valve sales, repair kits, seal kits and Aftermarket support.

Please contact Gilmore Customer Service to request a quotation for the 1" GEN 2 Pressure Regulators listed below, or any other configurations required that are not listed.

Table 1. New 1" GEN 2 Pressure Regulators and Legacy Cross-References:

Item	New Valve Description	Legacy PN Reference	New Valve PN	New Repair Kit PN	New Seal Kit PN
1	Valve, Pressure Regulator, GEN 2, Manual Spring, 3500- 1500 psi range, Code 62 Ports, Dual Inlets,	28656-1	29090	29090 RK	29090 SK
2	Valve, Pressure Regulator, GEN 2, Manual Spring, 3500- 1500 psi range, SAE Ports, Single Inlet	45200-1*	29091	29091 RK	29091 SK
3	Valve, Pressure Regulator, GEN 2, Manual Spring, 3500- 1500 psi range, Seal Sub Mounted, Dual Inlets	60174-8* 170953	29093	29093 RK	29093 SK
4	Valve, Pressure Regulator, GEN 2, Manual Spring, 1500-500 psi range, NPT Ports, Single Inlet	44577* ** 44577-16*	29095	29095 RK	29095 SK
5	Valve, Pressure Regulator, GEN 2, Manual Spring, 3500- 1500 psi range, NPT Ports, Single Inlet	44577-1* 45200*	29130	29130 RK	29130 SK
6	Valve, Pressure Regulator, GEN 2, Manual Spring, 3500- 1500 psi range, Seal Sub Mounted, RH Single Inlet	60175* 164848	29131	29131 RK	29131 SK
7	Valve, Pressure Regulator, GEN 2, Manual Spring, 5500-2500 psi range, NPT Ports, Single Inlet	45100* ** 45101*	29132	29132 RK	29132 SK
8	Valve, Pressure Regulator, GEN 2, Manual Spring, 5500-2500 psi range, SAE Ports, Single Inlet	45101-1*	29133	29133 RK	29133 SK
9	Valve, Pressure Regulator, GEN 2, Manual Spring, 4500-2000 psi range, Code 62 Ports, Dual Inlets	-	29134	29134 RK	29134 SK

^{*}Gage port improvement from NPT to SAE.

Note that GEN 2 regulator kits **are not** interchangeable with legacy repair kits and cannot be used in the legacy regulators.

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^{**}Handle modified to Lock cap. Exact like for like handle can be created as needed



1" GEN2 Pressure Regulator, Manual Spring

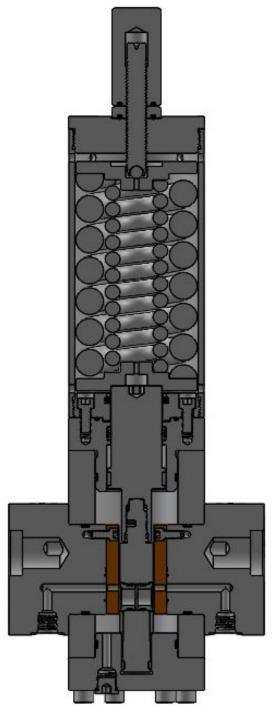
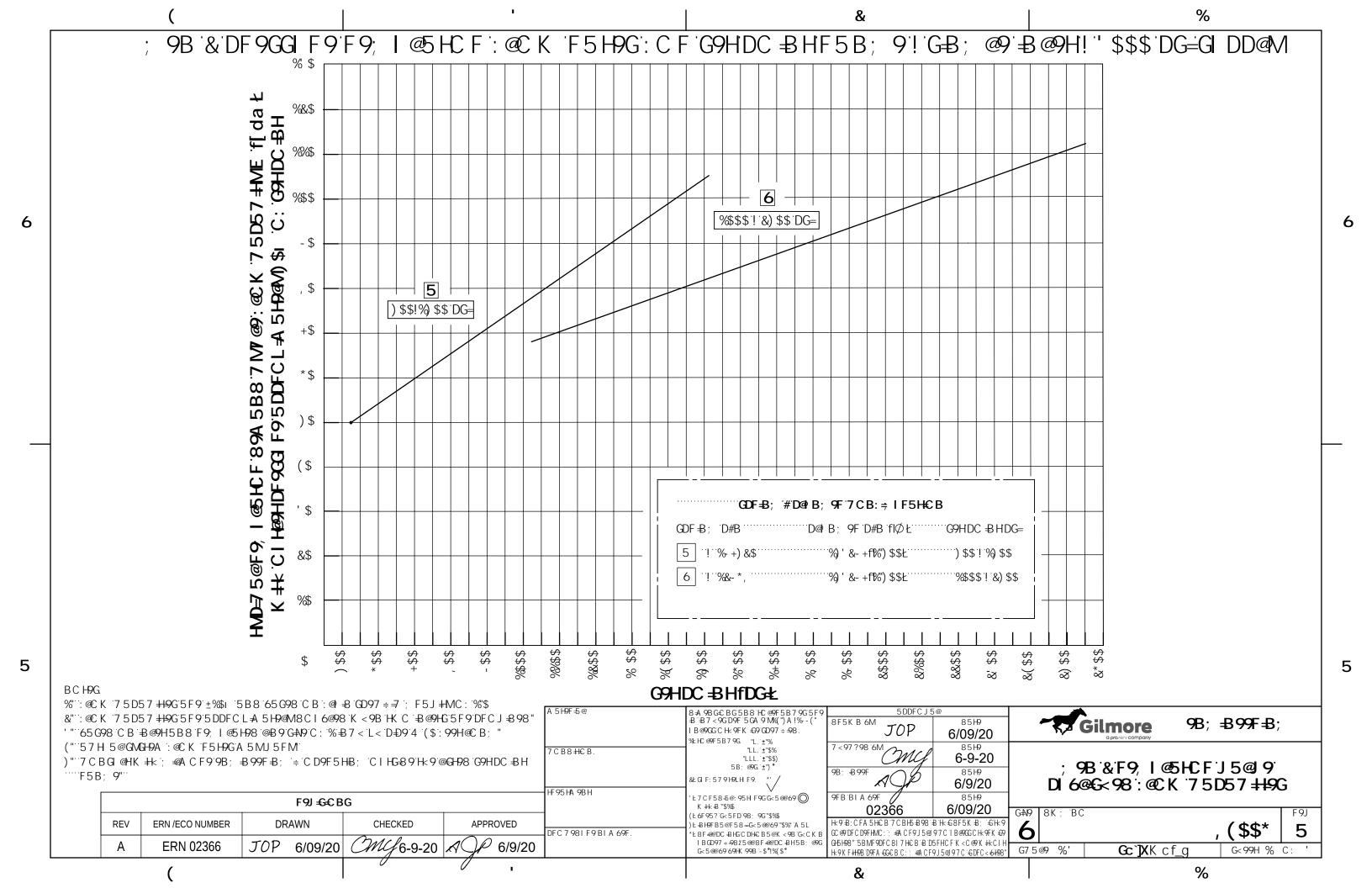


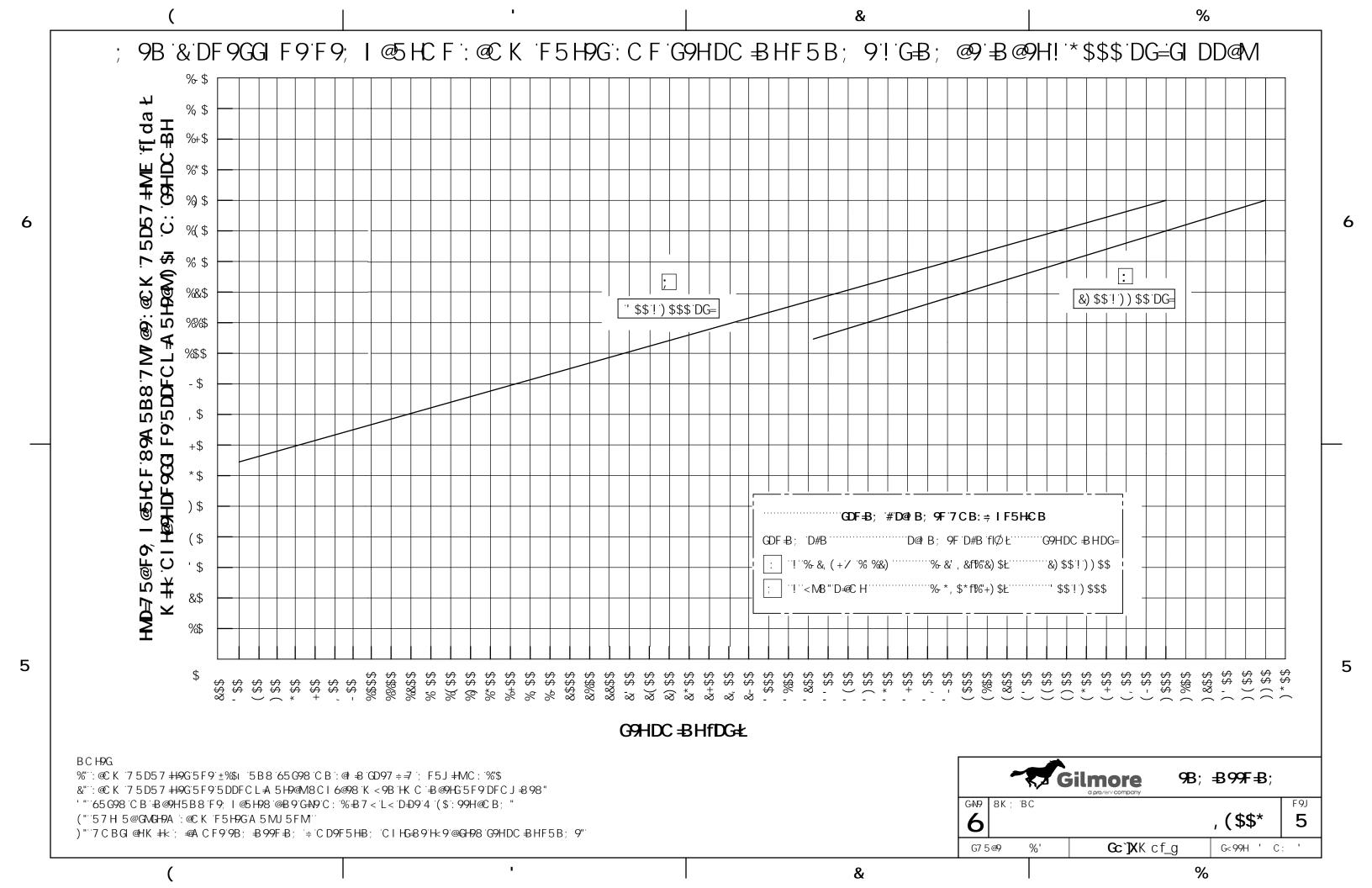
Figure 2. PN 29090: 1" Code 62 GEN 2 Pressure Regulator, Manual Spring, 1-1/2" Outlet, Dual 1" Inlets, 3500 - 1500 psi range

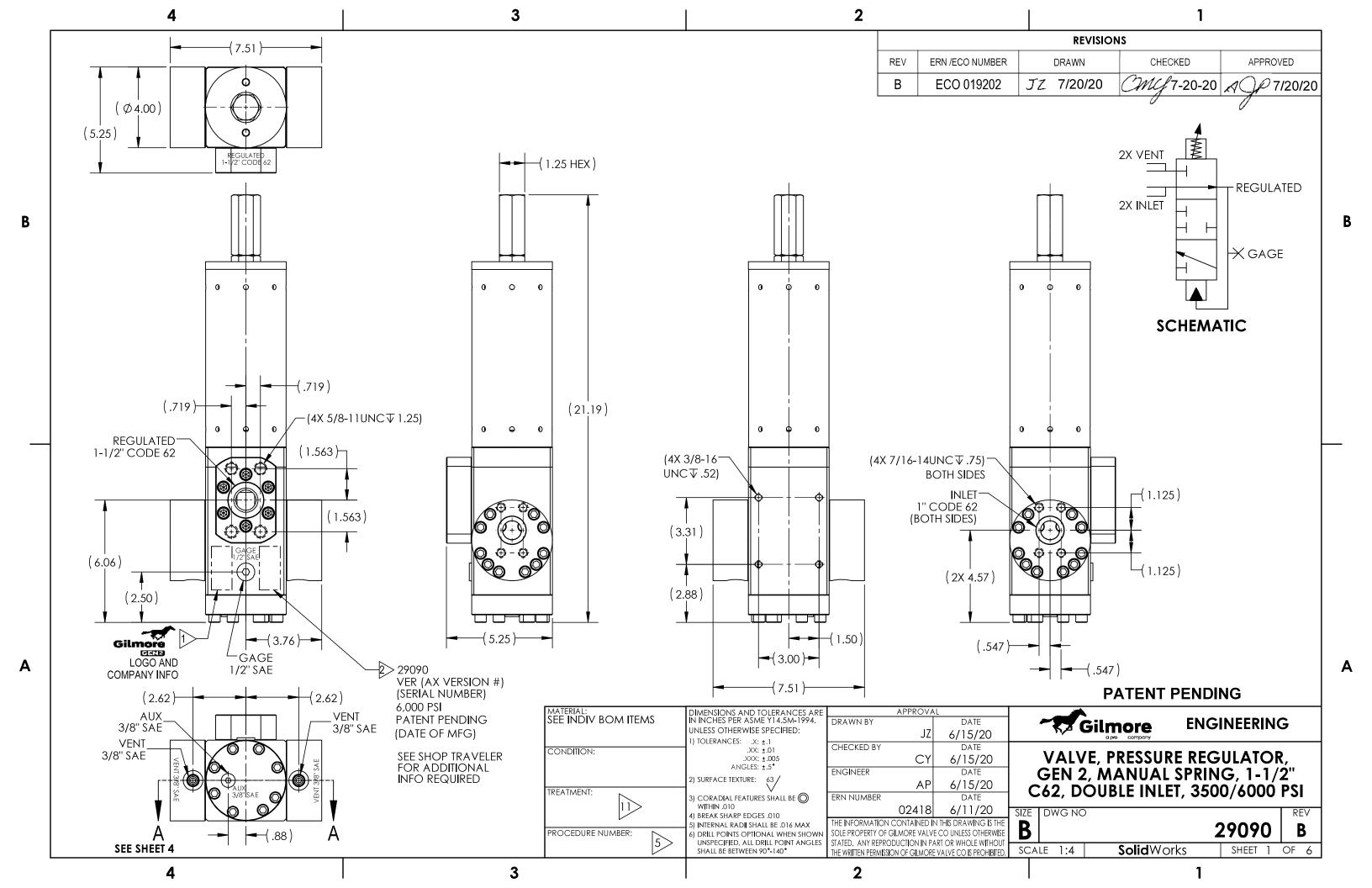
Please contact Gilmore Customer Service to request any drawings, manuals and quotations for these new GEN 2 regulators at info@gilmore.com.

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% ; 9B & DF 9GG F 9 F 9; I @5 HC F : @C K F 5 H9G : C F G9HDC & HF 5 B; 9 ! GB; @9 * & @9H!) \$\$ DG=GI DD@M % \$ 5D57 #ME 'f[da **%**+\$ **%***\$ %)\$ 6 8 %(\$ %) \$\$'!'') \$\$'DG= <u>`</u>, <u>₹</u> % \$ # 5HB@M) **%**\$\$ 7 %\$\$\$"!"&) \$\$"DG= &\$\$\$!()\$\$DG= 5DDFCL - \$, \$ HMD=75@F9, 1@5HCF.89A.! K + K : C1 H@9HDF93G F9: +\$ *\$ GDF+B; #D@B; 9F7CB: = 1F5HCB) \$ G9HDC BHDG= ``D@IB; 9F`D#B`Ø` (\$ '\$ &\$ 5 &+\$\$ &, \$\$ C9HDC BHfDGŁ %":@CK 75D57 | 19G5F9 ±%1 5B8 65G98 CB:@ +8 GD97 ≑ ₱ ; F5J +MC: %\$ &": @CK 75D57 ++9G5F95DDFCL + A 5 + D@M8Cl6@98K < 9BHKC + B@9HG5F9DFCJ + 898" ' "``65 G98 `C B `B @9H5 B 8 `F 9; I @5 H98 `@B 9 GA9 `C : '% B 7 < L < D D 9 4 (\$: 99H @C B; G#V9 , (\$\$* ("57H5@GMGH9A: @CKF5H9GA5MJ5FM **Gc`]X**K cf_q G<99H & C: G7 5 @9





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OPERATING DATA

- FOR TYPICAL FLOW CAPACITY REFER TO DRAWING 84006 FOR DOUBLE INLET.
- ADJUSTMENT SCREW TURNS NEEDED FOR 3,500 PSI SET POINT: 3 +/- 1 TURN OF SPRING COMPRESSION. (BASED ON FULLY OPEN POSITION SHOWN ON SHEET 4.)
- ADJUSTMENT SCREW TORQUE FOR 3,500 PSI SET POINT: 25 +/-5 FT-LB.
- CHANGE IN SET POINT PER ADJUSTMENT SCREW TURN: 375 +/-25 PSI.
- SET POINT ADJUSTED TO LESS THAN 1,500 PSI MAY RESULT IN NON-LINEAR DROP IN FLOW CAPACITY.
- FOR MORE DETAILED OPERATION INFORMATION REFER TO SERVICE MANUAL 51030.

PRESSURE DATA

MAXIMUM INLET PRESSURE RATING: 6,000 PSI **REGULATED RANGE:** 3,500 - 1,500 PSI TYPICAL DEADBAND AT 5000 PSI SUPPLY: 300 ± 100 PSI TYPICAL DEADBAND AT 3000 PSI SUPPLY: 200 ±50 PSI MAXIMUM REGULATED AND VENT PRESSURE RATING: 3500 PSI

FLOW DATAFULLY OPEN CV REGULATED: 14 (CALC) 2 (CALC) FULLY OPEN CV VENT: FULLY OPEN MAX REGULATED FLOW RATE: 250 GPM FLUIDS: WATER BASED DRILLING CONTROL FLUID MINERAL OIL BASED DRILLING CONTROL FLUID

PORTS:

INLET 1: 1" CODE 62 SEAL SUB INLET 2: 1" CODE 62 SEAL SUB REGULATED: 1-1/2" CODE 62 SEAL SUB

VENT 1: 3/8" SAE VENT 2: 3/8" SAE GAGE: 1/2" SAE AUX: 3/8" SAE

GENERAL DATA:

TEMP RANGE: 32°F TO 150°F

APPROX WEIGHT: 73 LBS

NOTES:

- MARK "ASSEMBLY W.O." AT VALVE ASSEMBLY IN ACCORDANCE WITH MA-W-9-10, BY GILMORE.
- MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- REGULATED RANGE SPECIFIED ENSURES ADEQUATE AMOUNT OF SPRING PRELOAD IS PRESENT FOR RELIABLE AND REPEATABLE SET POINT ADJUSTMENT.
- X IN THE BOM INDICATES PARTS IN REPAIR KIT 29090 RK AND SEAL KIT 29090 SK.

ASSEMBLY PROCEDURE: 50309 STANDARD FAT PROCEDURE: 50310 EXTENDED FAT PROCEDURE: 50311 SERVICE MANUAL: 51030

TORQUE TO 10 FT-LB

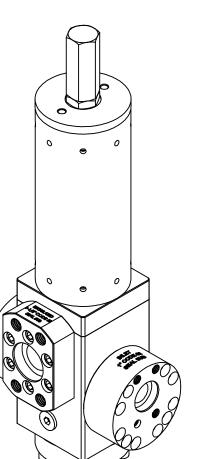
TORQUE TO 20 FT-LB

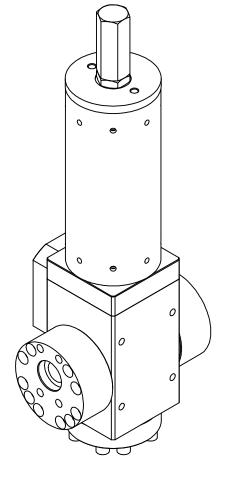
TORQUE TO 5 FT-LB

TORQUE TO 40 FT-LB

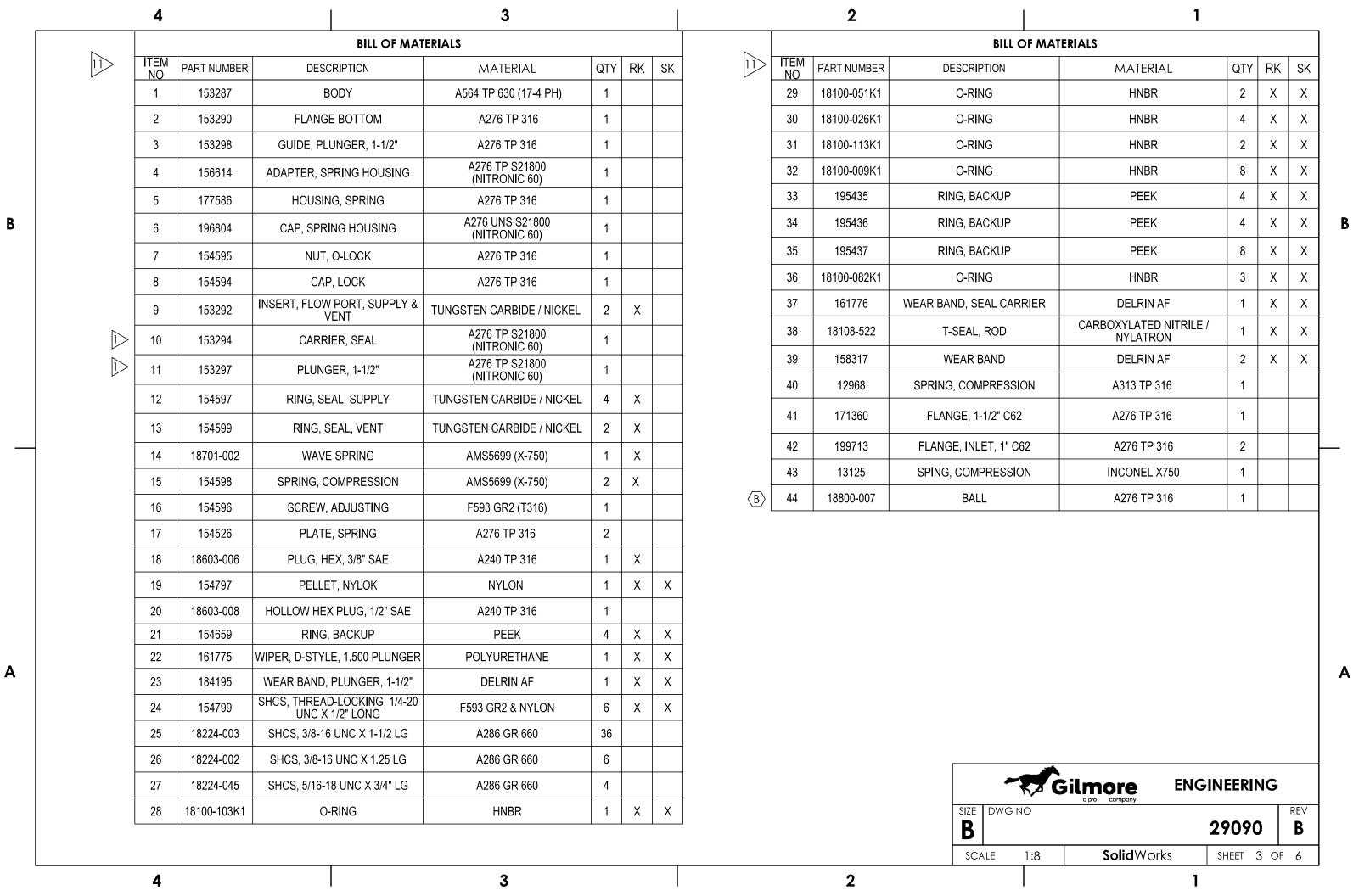
TORQUE TO 20 FT-LB

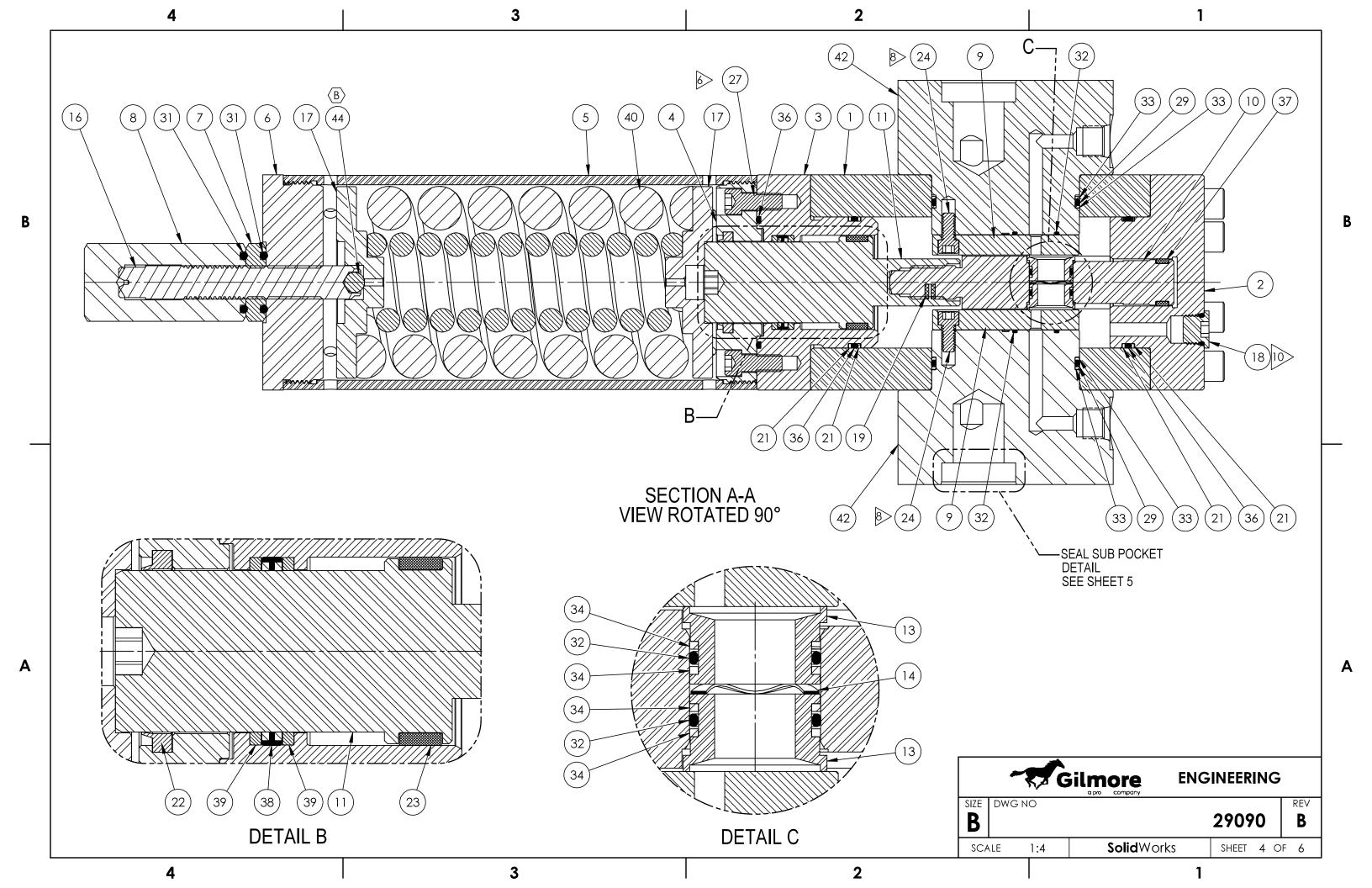
ALL MANUFACTURED ITEMS ARE PASSIVATED.

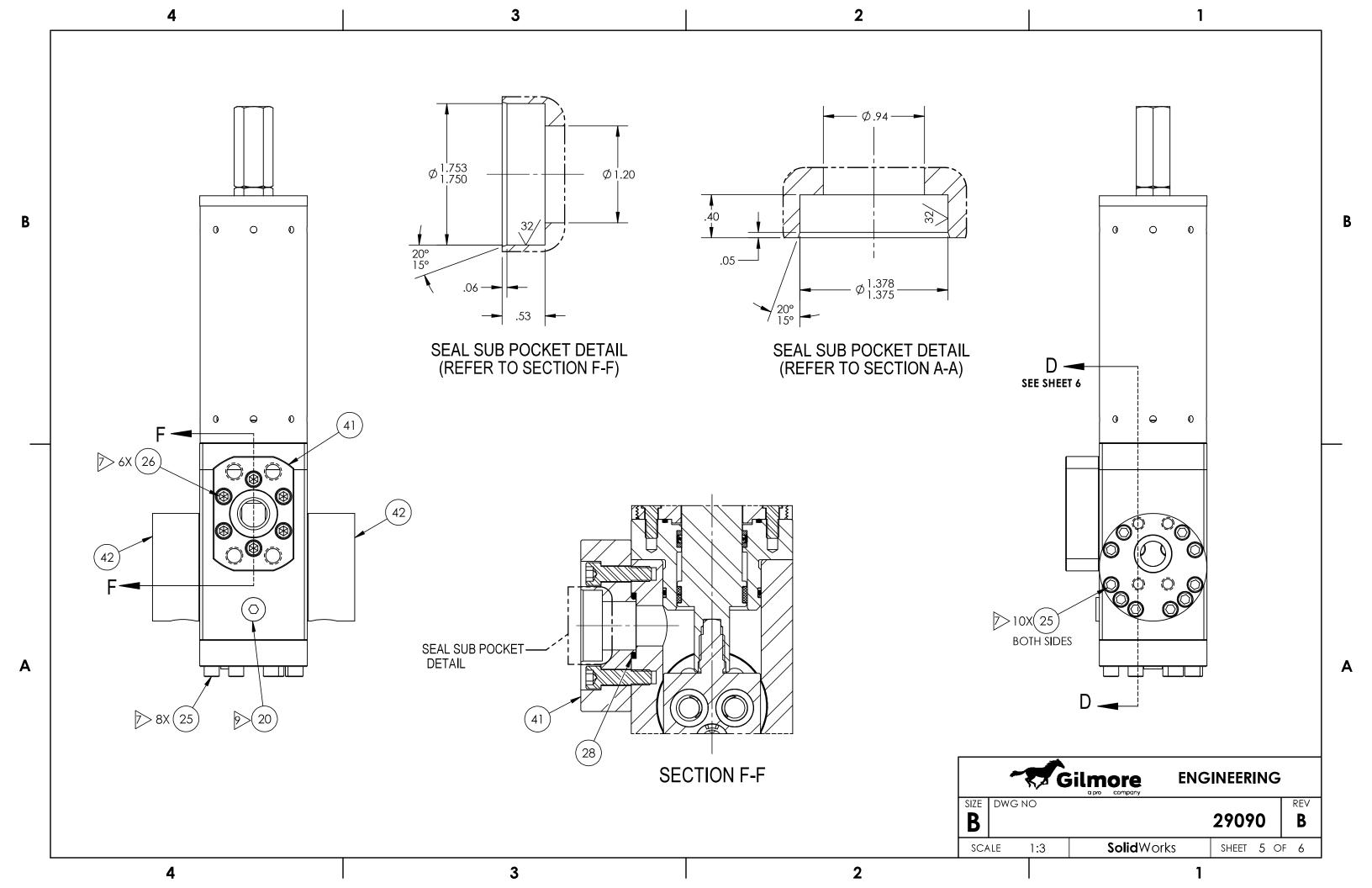


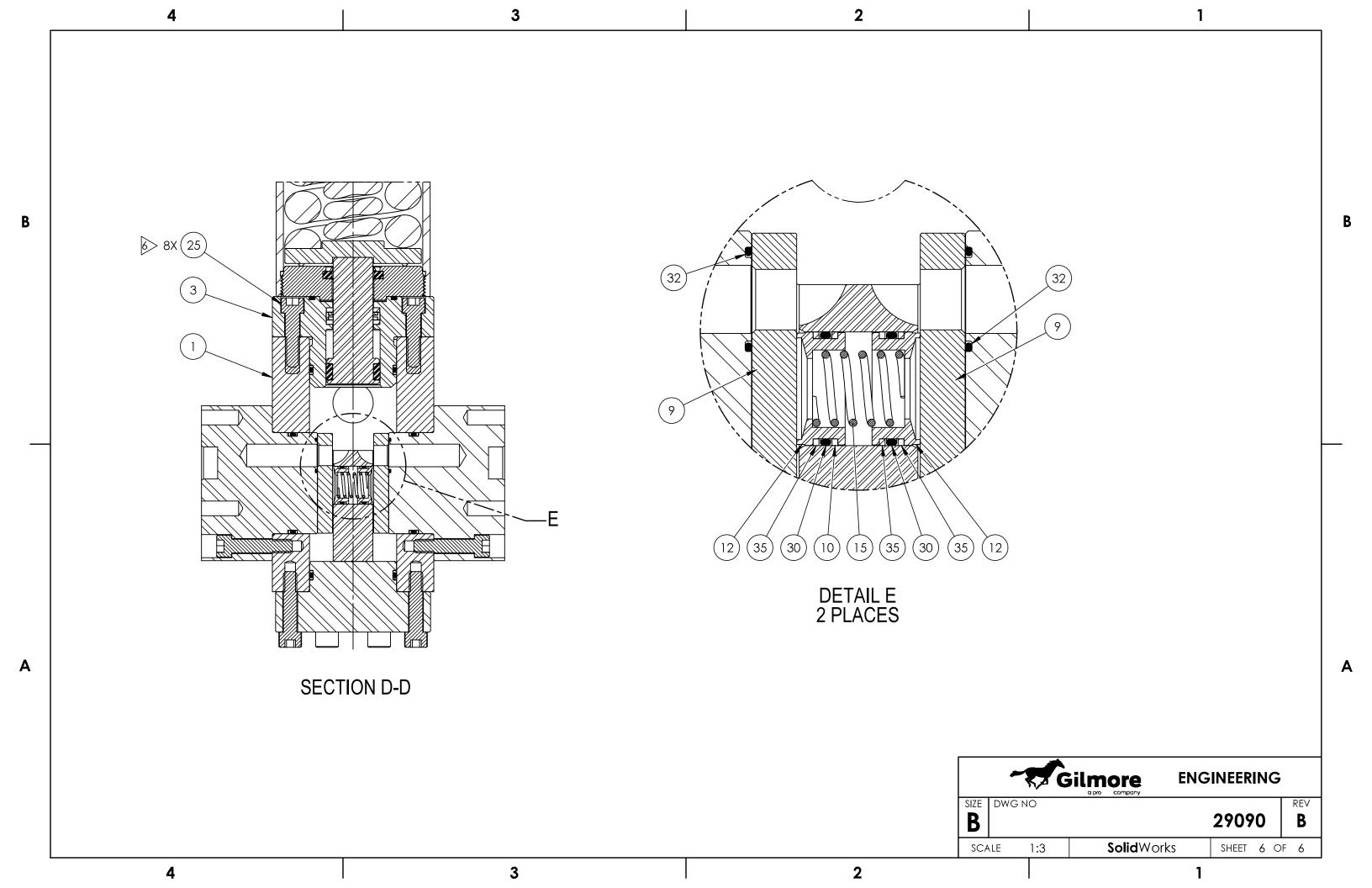


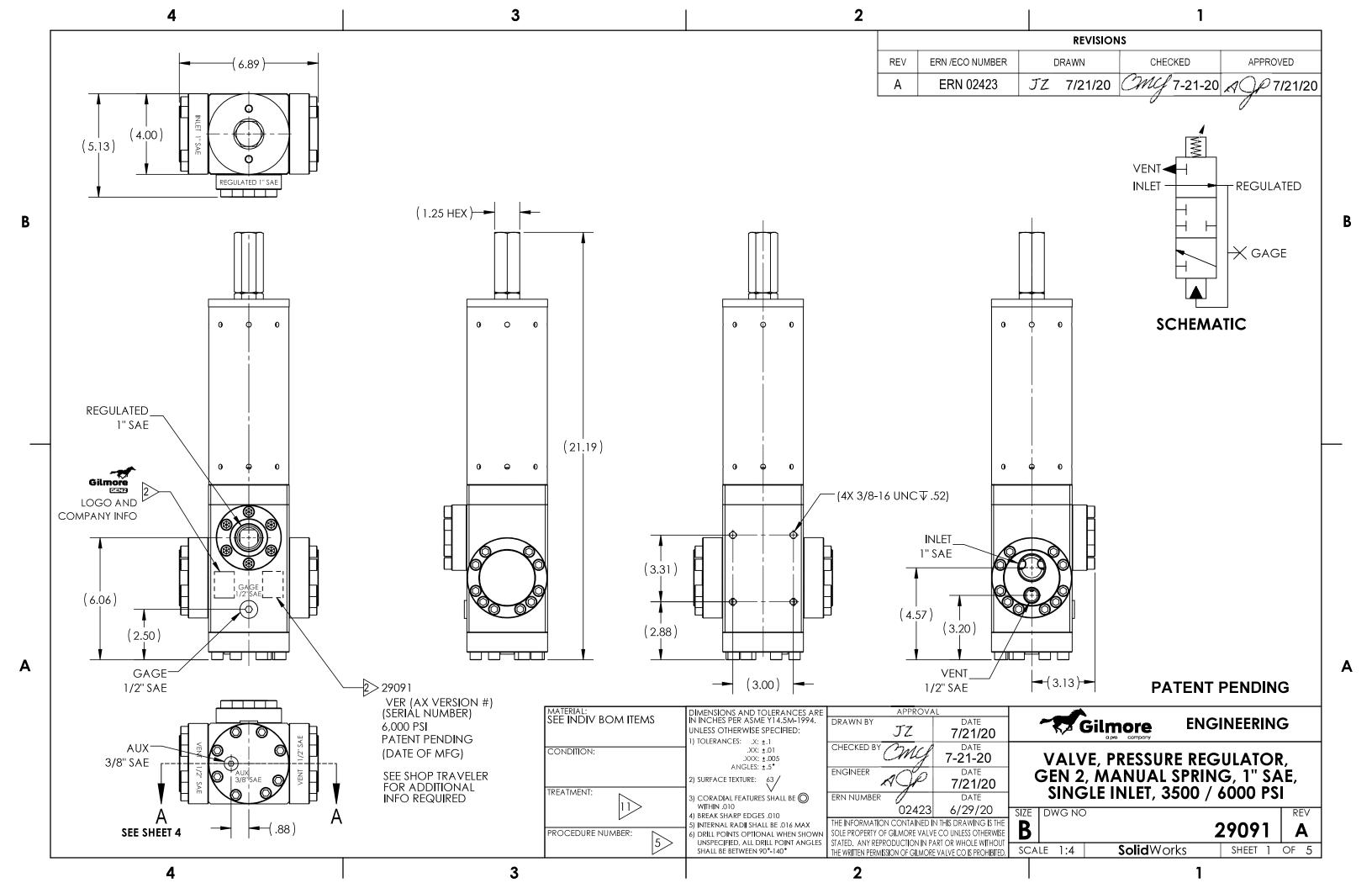
Gilmore **ENGINEERING** SIZE DWG NO REV 29090 **Solid**Works SCALE 1:4 SHEET 2 OF











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- 1. FOR TYPICAL FLOW CAPACITY REFER TO DRAWING 84006 FOR SINGLE INLET.
- 2. ADJUSTMENT SCREW TURNS NEEDED FOR 3,500 PSI SET POINT: 3 +/- 1 TURN OF SPRING COMPRESSION.
 (BASED ON FULLY OPEN POSITION SHOWN ON SHEET 4)
- 3. ADJUSTMENT SCREW TORQUE FOR 3,500 PSI SET POINT: 25 +/-5 FT-LB.
- 4. CHANGE IN SET POINT PER ADJUSTMENT SCREW TURN: 375 +/-25 PSI.
- 5. SET POINT ADJUSTED TO LESS THAN 1,500 PSI MAY RESULT IN NON-LINEAR DROP IN FLOW CAPACITY.
- 6. FOR MORE DETAILED OPERATIONS INFORMATION REFER TO SERVICE MANUAL 51030.

PRESSURE DATA:

MAXIMUM INLET PRESSURE RATING: 6,000 PSI

REGULATED RANGE: 3,500 - 1,500 PSI TYPICAL DEADBAND AT 5000 PSI SUPPLY: 300±100 PSI TYPICAL DEADBAND AT 3000 PSI SUPPLY: 200±50 PSI MAXIMUM REGULATED AND VENT PRESSURE RATING: 3500 PSI

FLOW DATA:

FULLY OPEN CV REGULATED: 7 (CALC)
FULLY OPEN CV VENT: 1 (CALC)
FULLY OPEN MAXIMUM REGULATED FLOW RATE: 125 GPM
FLUIDS: WATER BASED DRILLING CONTROL FLUID
MINERAL OIL BASED DRILLING CONTROL FLUID

PORTS:

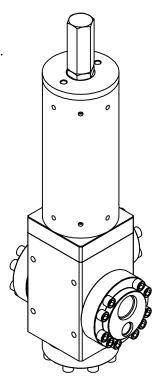
INLET: 1" SAE
REGULATED: 1" SAE
VENT: 1/2" SAE
GAGE: 1/2" SAE
AUX: 3/8" SAE

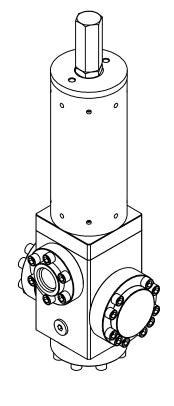
GENERAL DATA:

TEMP RANGE: 32°F TO 150°F APPROX WEIGHT: 70 LBS

NOTES:

- MARK "ASSEMBLY W.O." AT VALVE ASSEMBLY
 IN ACCORDANCE WITH MA-W-9-10, BY GILMORE.
- MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- 3. REGULATED RANGE SPECIFIED ENSURES ADEQUATE AMOUNT OF SPRING PRELOAD IS PRESENT FOR RELIABLE AND REPEATABLE SET POINT ADJUSTMENT.
- 4. X IN THE BOM INDICATES PARTS IN REPAIR KIT 29091 RK AND SEAL KIT 29091 SK.
- ASSEMBLY PROCEDURE: 50309
 STANDARD FAT PROCEDURE: 50310
 EXTENDED FAT PROCEDURE: 50311
 SERVICE MANUAL: 51030
- TORQUE TO 10 FT-LB
- TORQUE TO 20 FT-LB
- TORQUE TO 5 FT-LB
- TORQUE TO 40 FT-LB
- 10> TORQUE TO 20 FT-LB
- 11> ALL MANUFACTURED ITEMS ARE PASSIVATED.





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SIZE	DWG	NO				RE\	/
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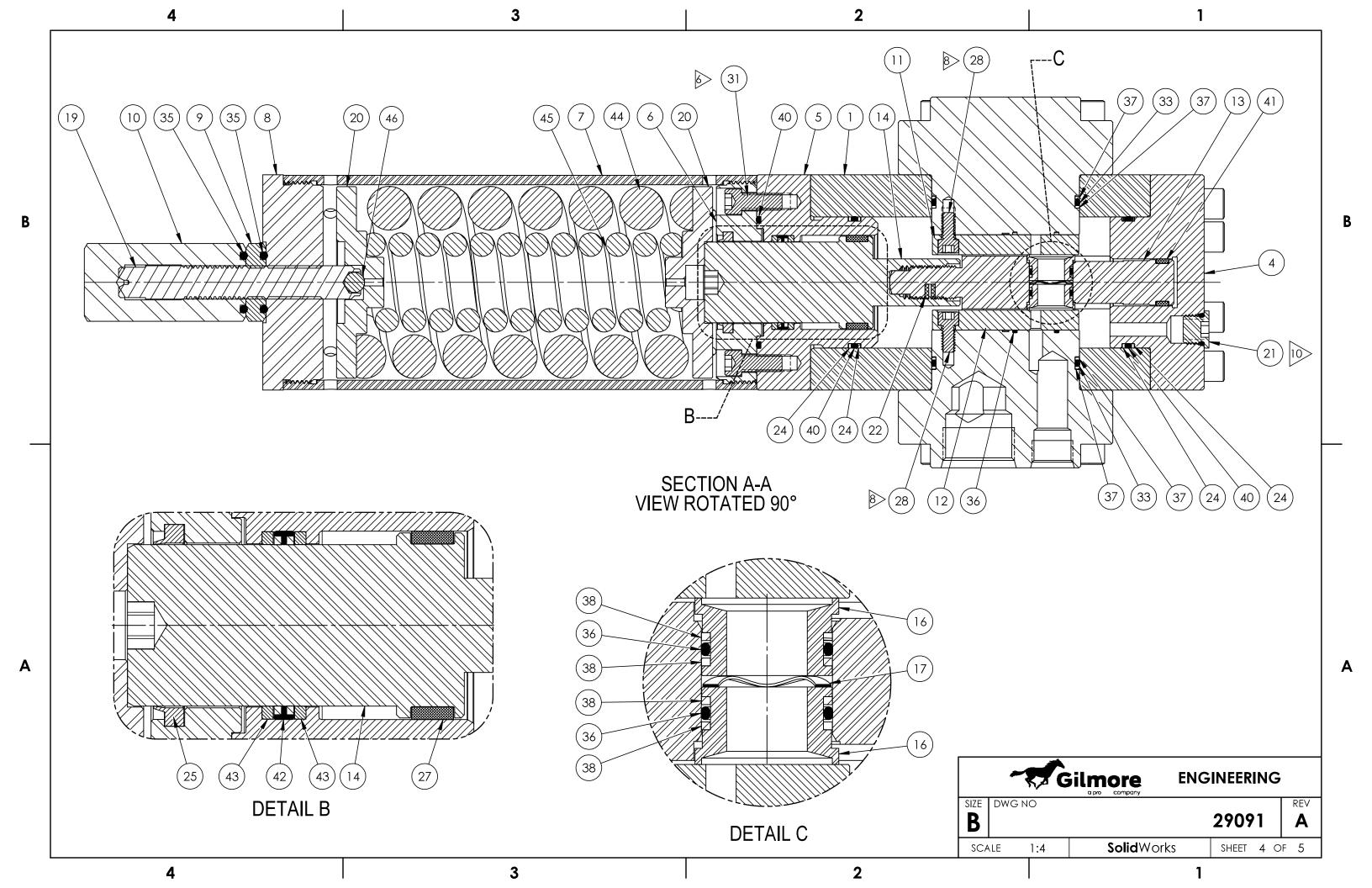
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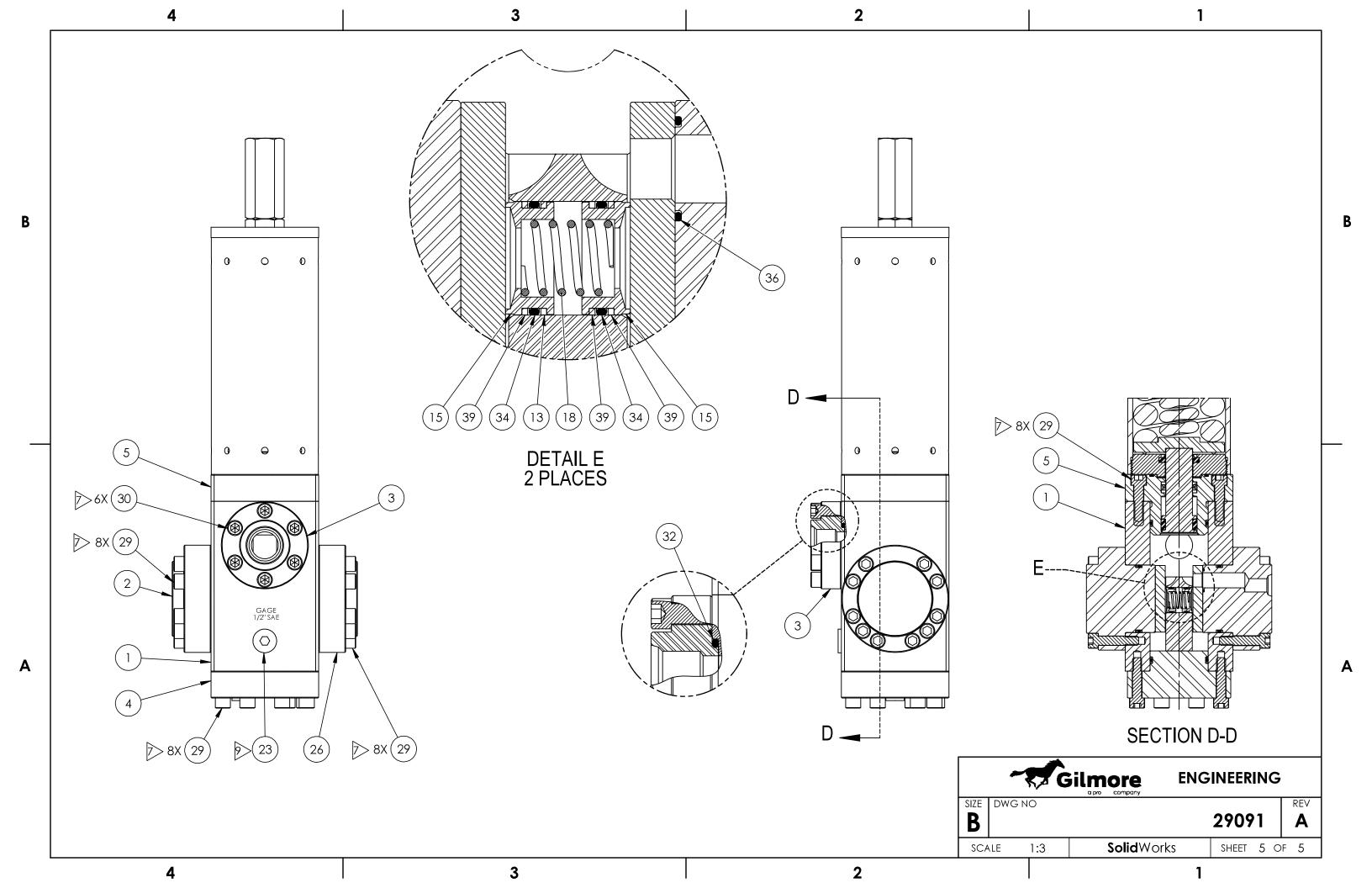
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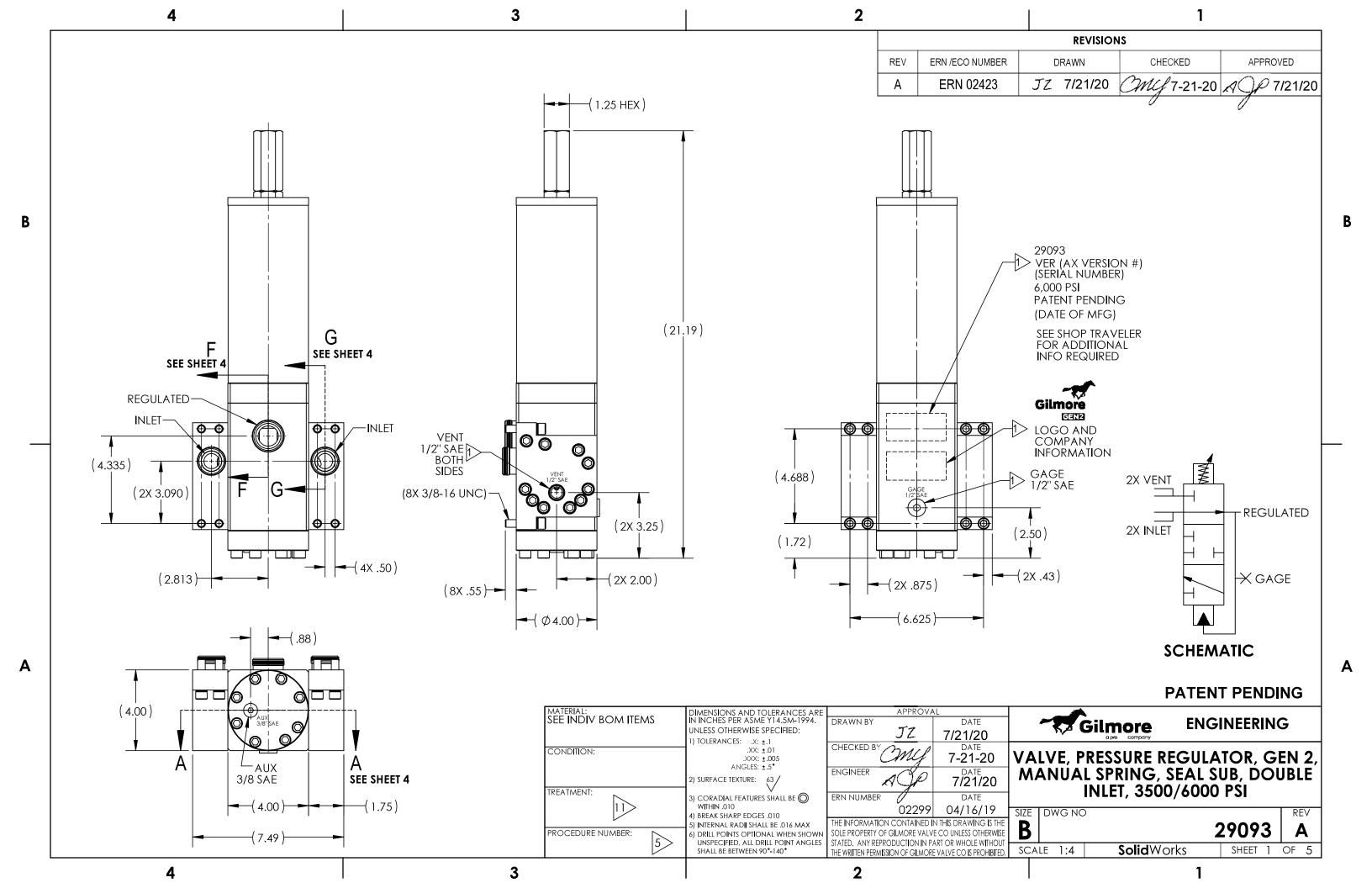
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OPERATING DATA:

- FOR TYPICAL FLOW CAPACITY REFER TO DRAWING 84006 FOR DOUBLE INLET.
- ADJUSTMENT SCREW TURNS NEEDED FOR 3,500 PSI SET POINT: 3 +/- 1 TURN. (BASED ON FULLY OPEN POSITION SOWN ON SHEET 4)
- ADJUSTMENT SCREW TORQUE FOR 3,500 PSI SET POINT: 25 +/-5 FT-LB.
- CHANGE IN SET POINT PER ADJUSTMENT SCREW TURN: 375 +/-25 PSI.
- SET POINT ADJUSTED TO LESS THAN 1,500 PSI MAY RESULT IN NON-LINEAR DROP IN FLOW CAPACITY.
- FOR MORE DETAILED DESCRIPTIONS REFER TO SERVICE MANUAL 51030.

PRESSURE DATA:

MAXIMUM INLET PRESSURE RATING: 6,000 PSI **REGULATED RANGE:** 3,500 - 1,500 PSI TYPICAL DEADBAND AT 5000 PSI SUPPLY: 300 ± 100 PSI TYPICAL DEADBAND AT 3000 PSI SUPPLY: 200 ± 50 PSI MAXIMUM REGULATED AND VENT PRESSURE RATING: 3500 PSI

FLOW DATA:

FULLY OPEN CV REGULATED: 14 (CALC) FULLY OPEN CV VENT: 2 (CALC) FULLY OPEN MAXIMUM REGULATED FLOW RATE: 250 GPM

FLUIDS: WATER BASED DRILLING CONTROL FLUID MINERAL OIL BASED DRILLING CONTROL FLUID

PORTS:

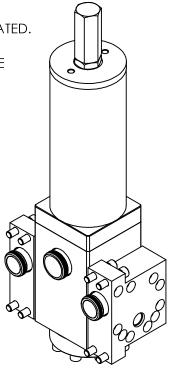
INLET (2X): 1" SEAL SUB REGULATED: 1-1/2" SEAL SUB **VENT (2X):** 1/2" SAE GAGE: 1/2" SAE AUX: 3/8" SAE

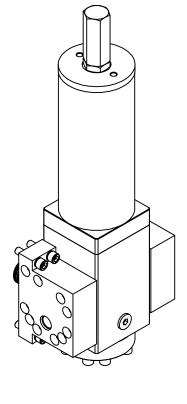
GENERAL DATA:

TEMP RANGE: 32°F TO 150°F APPROX WEIGHT: 70 LBS

NOTES:

- MARK "ASSEMBLY W.O." AT VALVE ASSEMBLY IN ACCORDANCE WITH MA-W-9-10, BY GILMORE.
- MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- REGULATED RANGE SPECIFIED ENSURES ADEQUATE AMOUNT OF SPRING PRELOAD IS PRESENT FOR RELIABLE AND REPEATABLE SET POINT ADJUSTMENT.
- X IN THE BOM INDICATES PARTS IN REPAIR KIT 29093 RK AND SEAL KIT 29093 SK.
- **ASSEMBLY PROCEDURE:** 50309 STANDARD FAT PROCEDURE: 50310 EXTENDED FAT PROCEDURE: 50311 51030 SERVICE MANUAL:
- TORQUE TO 10 FT/LB
- TORQUE TO 20 FT/LB
- TORQUE TO 5 FT/LB
- TORQUE TO 40 FT/LB
- TORQUE TO 20 FT/LB
- ALL MANUFACTURED ITEMS ARE PASSIVATED.
- 12. DOUBLE INLET MOUNTING KIT AVAILABLE PART NUMBER 29128

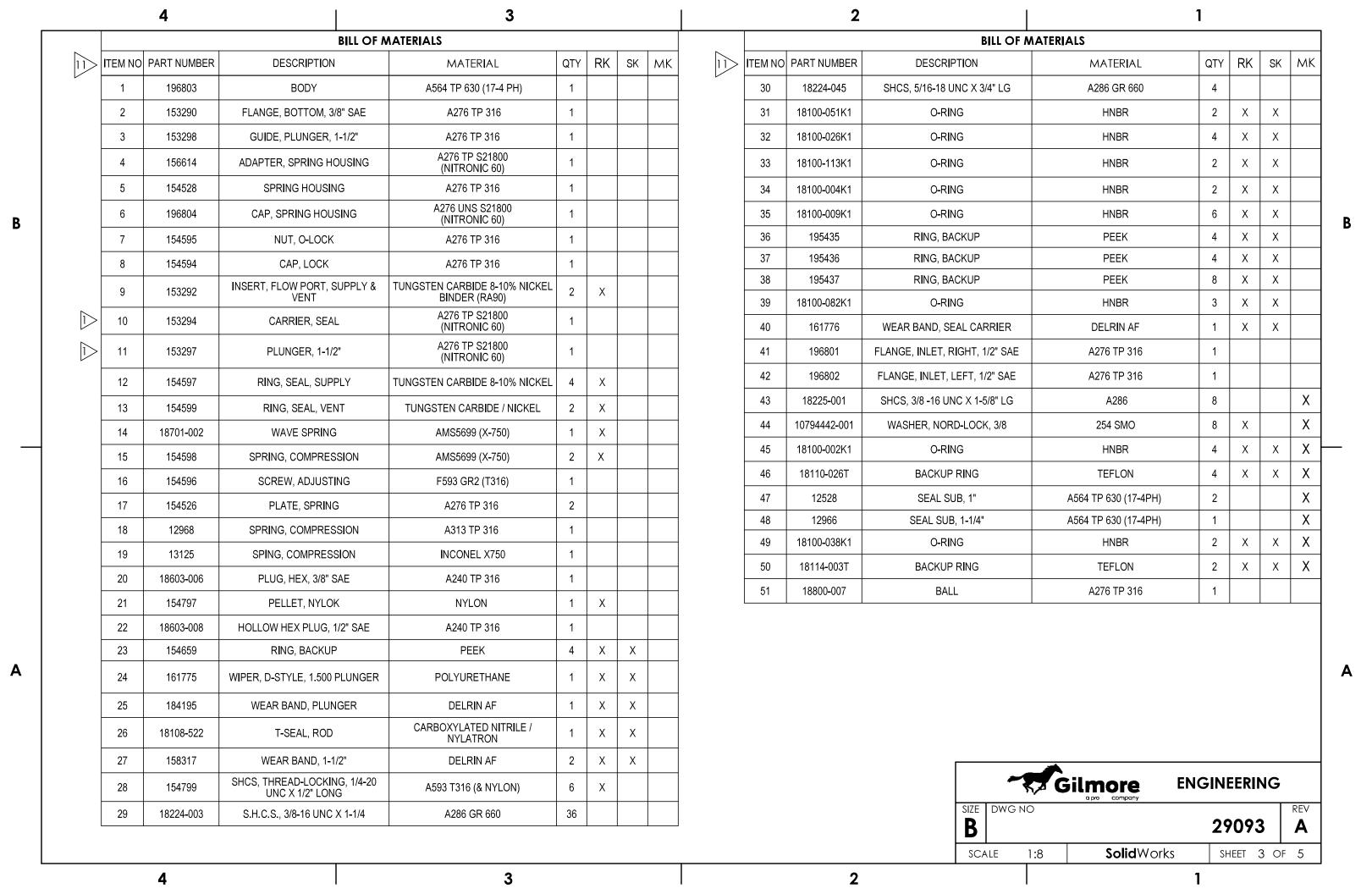


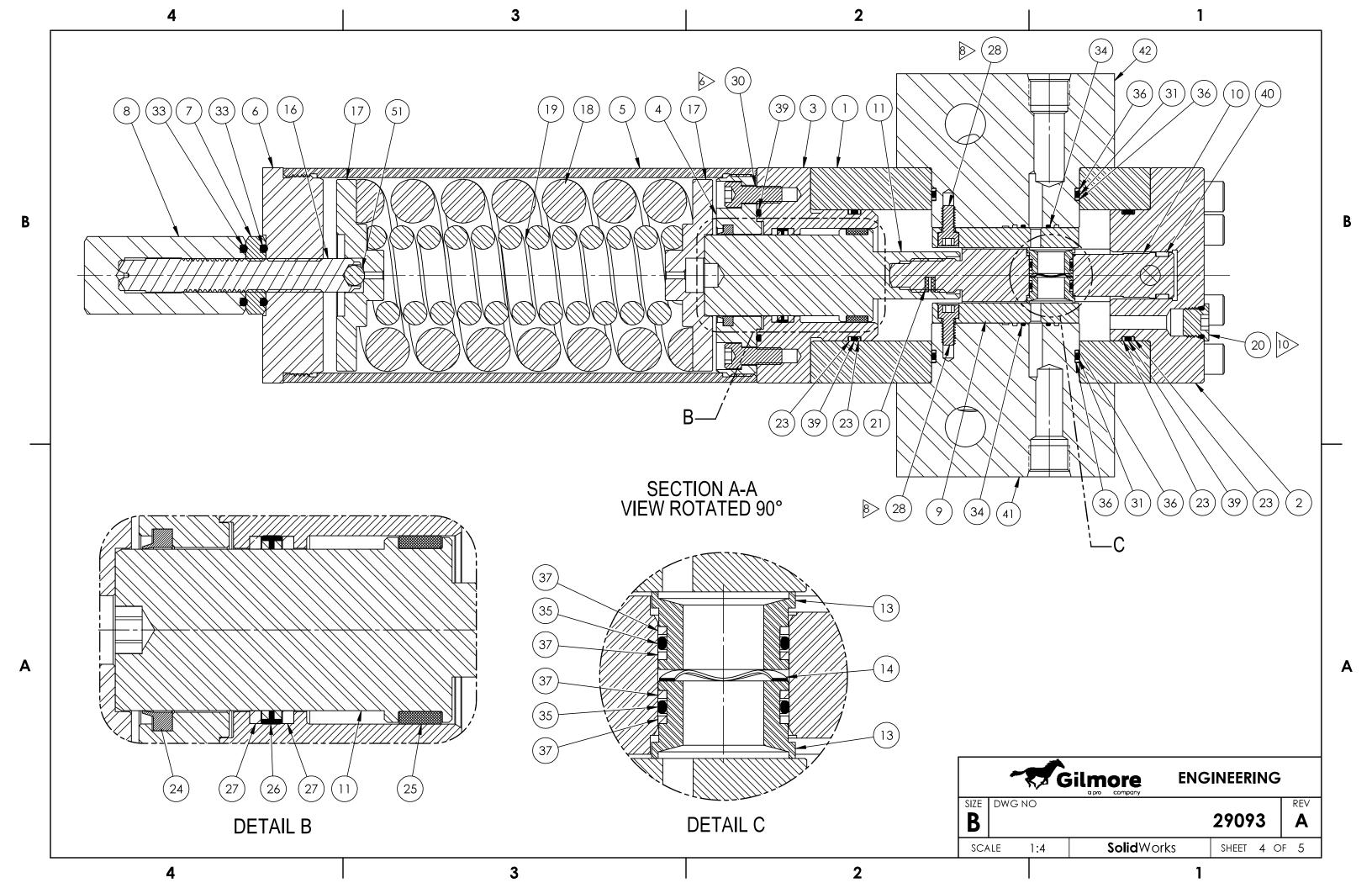


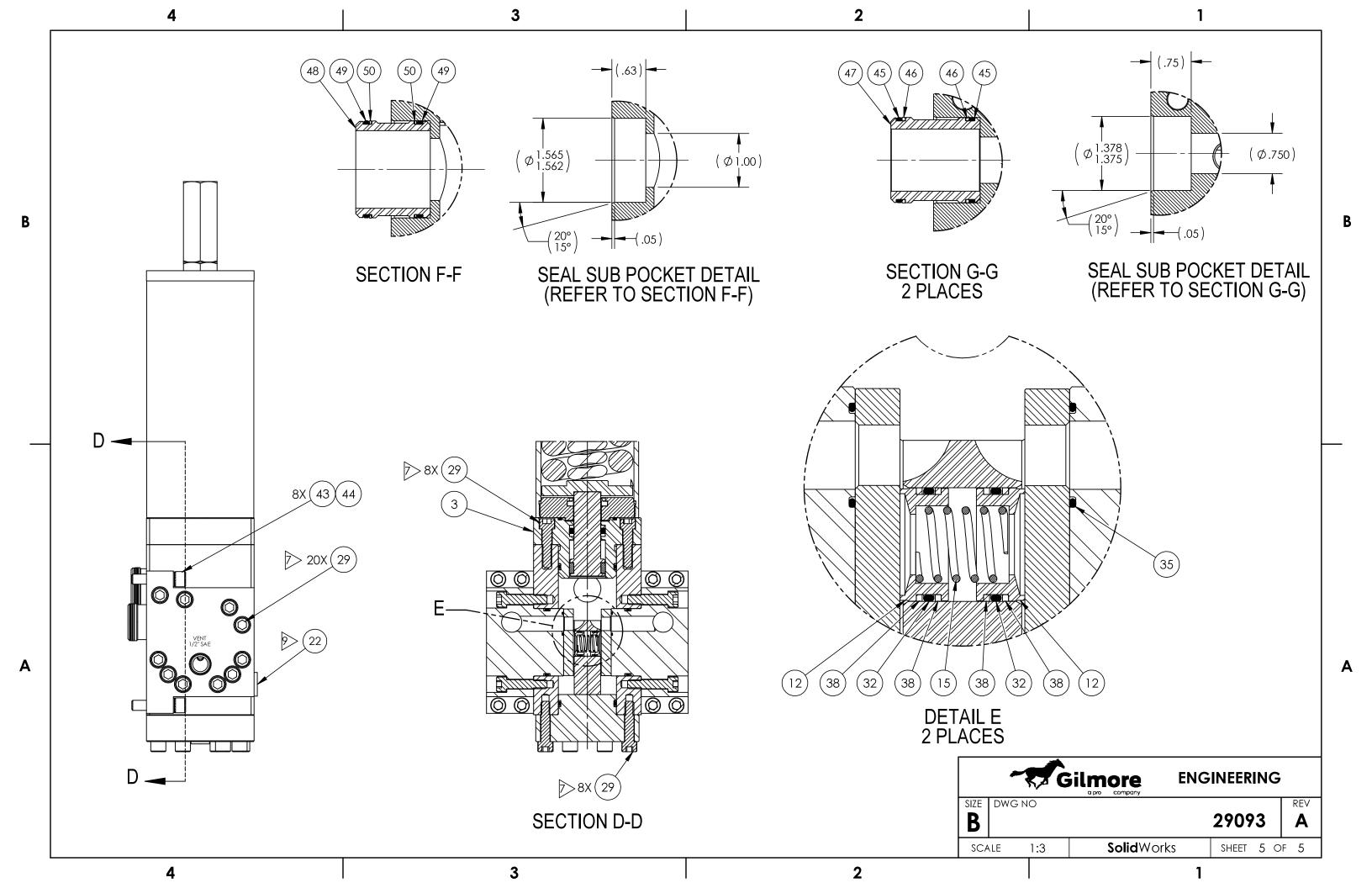
Gilmore **ENGINEERING** SIZE DWG NO REV 29093 **Solid**Works 1:3 SHEET 2 OF 5 SCALE

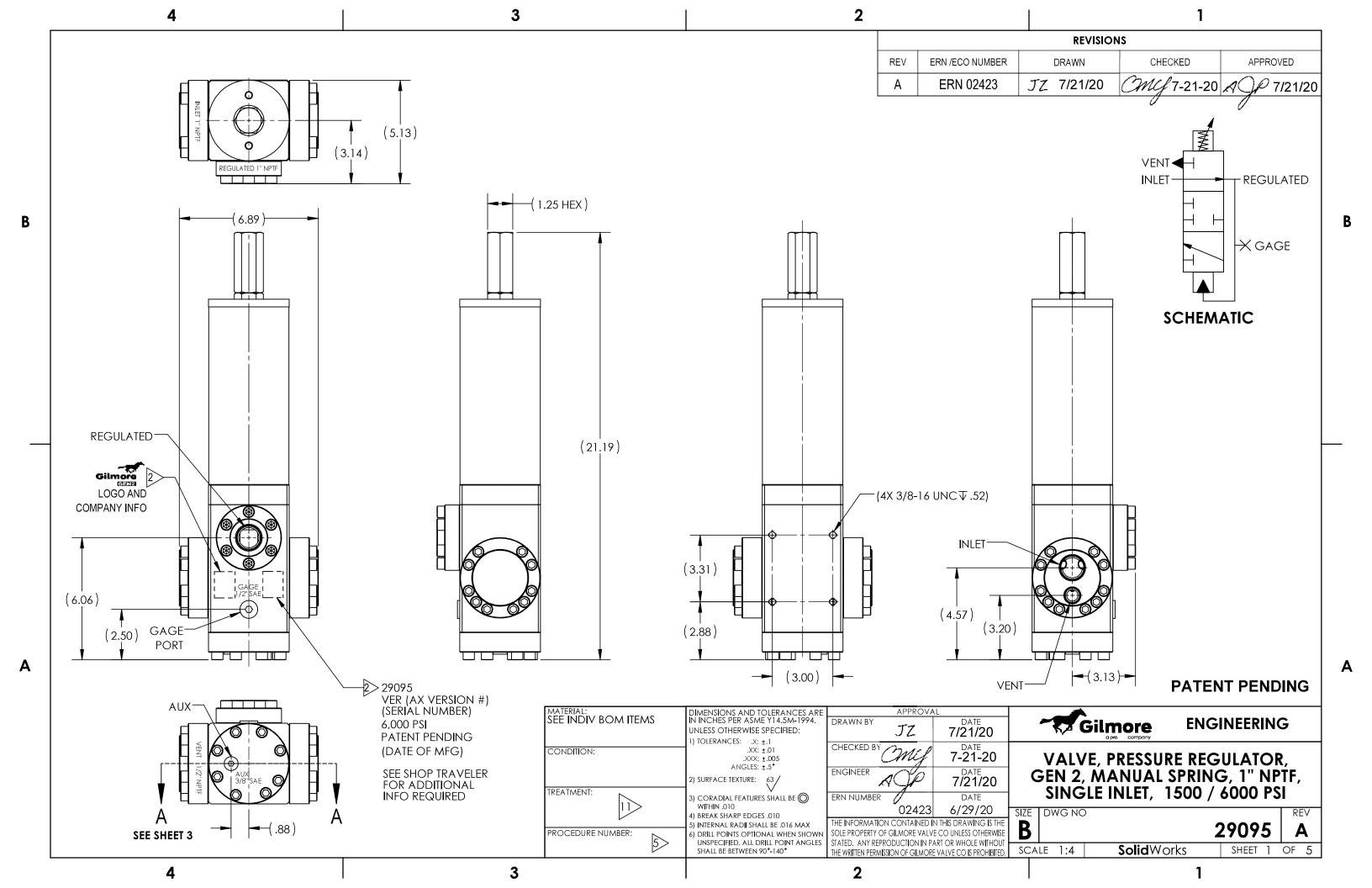
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OPERATING DATA:

- FOR TYPICAL FLOW CAPACITY REFER TO DRAWING 84006 FOR SINGLE INLET.
- ADJUSTMENT SCREW TURNS NEEDED FOR 1,500 PSI SET POINT: 3 +/- 1 TURN OF SPRING COMPRESSION. (BASED ON FULLY OPEN POSITION SHOWN ON SHEET 4)
- ADJUSTMENT SCREW TORQUE FOR 1500 PSI SET POINT: 15 +/-5 FT-LB. 3.
- CHANGE IN SET POINT PER ADJUSTMENT SCREW TURN: 125 +/-25 PSI.
- SET POINT ADJUSTED TO LESS THAN 500 PSI MAY RESULT IN NON-LINEAR DROP IN FLOW CAPACITY.
- FOR MORE DETAILED OPERATIONS INFORMATION REFER TO SERVICE MANUAL 51030.

PRESSURE DATA:

MAXIMUM INLET PRESSURE RATING: 6,000 PSI

1500 - 500 PSI PRESSURE RANGE: TYPICAL DEADBAND AT 5,000 PSI SUPPLY: 300 ± 100PSI TYPICAL DEADBAND AT 3,000 PSI SUPPLY: 200 ±50 PSI MAXIMUM REGULATED AND VENT PRESSURE RATING: 1500 PSI

FLOW DATA:

FULLY OPEN CV SUPPLY: 7 (CALC) FULLY OPEN CV VENT: (CALC) FULLY OPEN MAXIMUM REGULATED FLOW RATE: 100 GPM

FLUIDS: WATER BASED DRILLING CONTROL FLUID MINERAL OIL BASED DRILLING CONTROL FLUID

PORTS:

INLET: 1" NPTF REGULATED: 1" NPTF VENT: 1/2" NPTF GAGE: 1/2" SAE AUX: 3/8" SAE

GENERAL DATA:

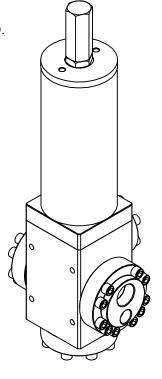
TEMP RANGE: 32°F TO 150°F

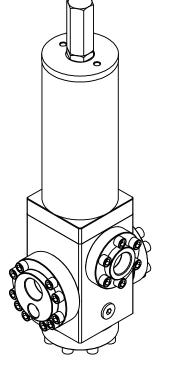
APPROX WEIGHT: 70 LBS

NOTES:

- MARK "ASSEMBLY W.O." AT VALVE ASSEMBLY IN ACCORDANCE WITH MA-W-9-10, BY GILMORE.
- MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- REGULATED RANGE SPECIFIED ENSURES ADEQUATE AMOUNT OF SPRING PRELOAD IS PRESENT FOR RELIABLE AND REPEATABLE SET POINT ADJUSTMENT WITH SUPPLY PRESENT
- X IN THE BOM INDICATES PARTS IN REPAIR KIT 29095 RK AND SEAL KIT 29095 SK.
- ASSEMBLY PROCEDURE: 50309 STANDARD FAT PROCEDURE: 50310 50311 EXTENDED FAT PROCEDURE: SERVICE MANUAL: 51030
- TORQUE TO 10 FT-LB
- TORQUE TO 15 FT-LB
- TORQUE TO 5 FT-LB
- TORQUE TO 40 FT-LB
- 10> TORQUE TO 20 FT-LB

ALL MANUFACTURED ITEMS ARE PASSIVATED.

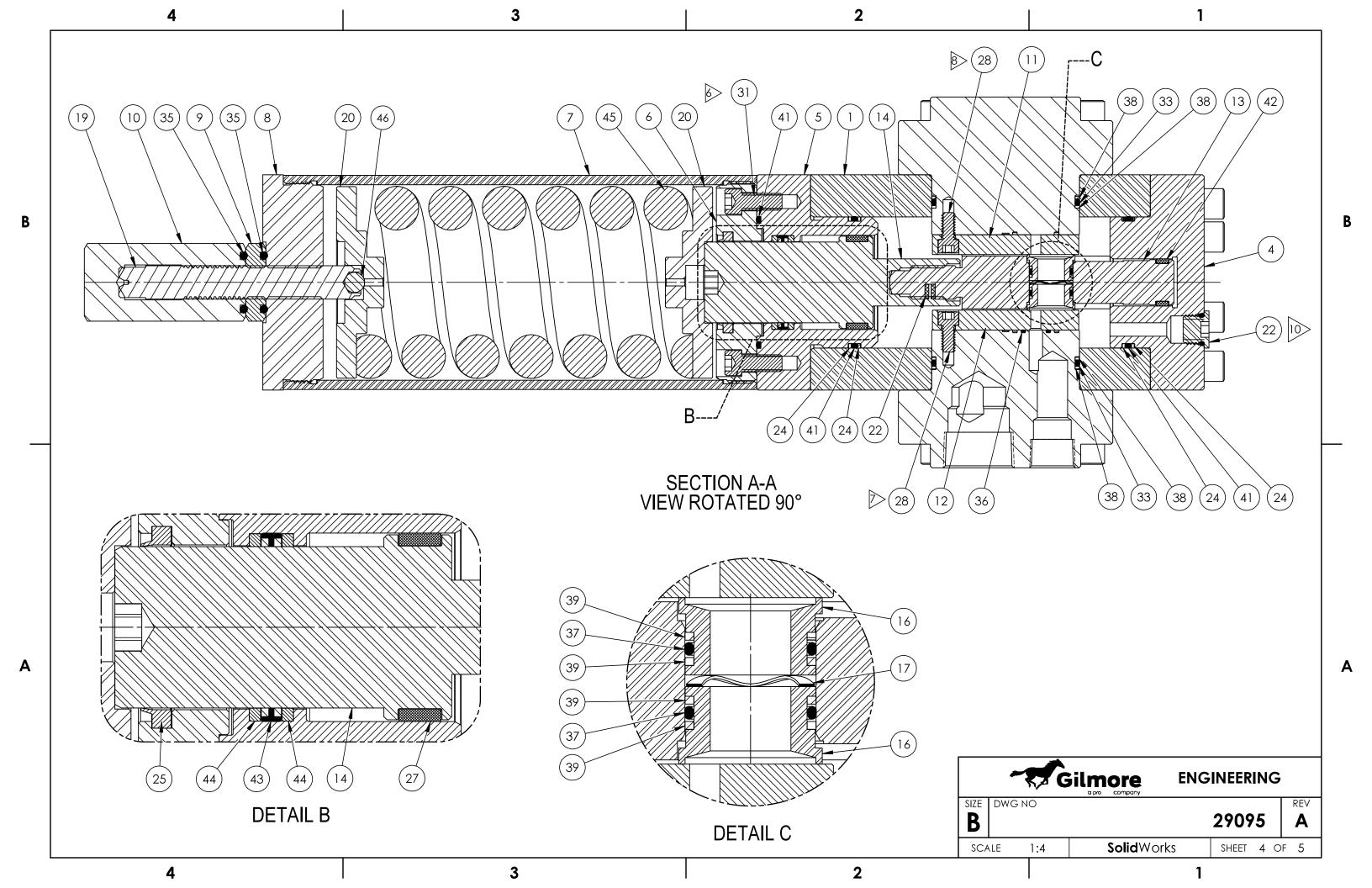


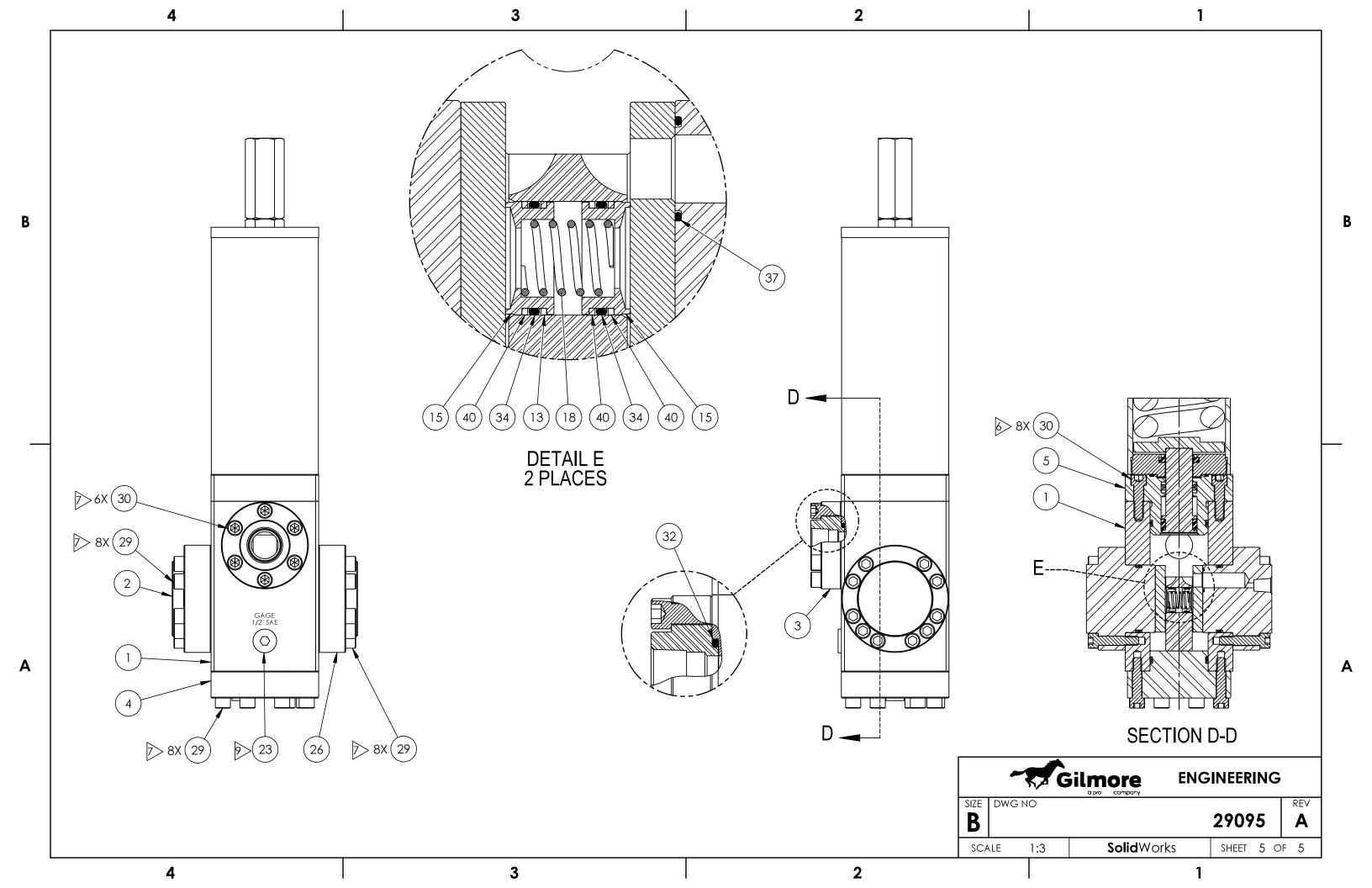


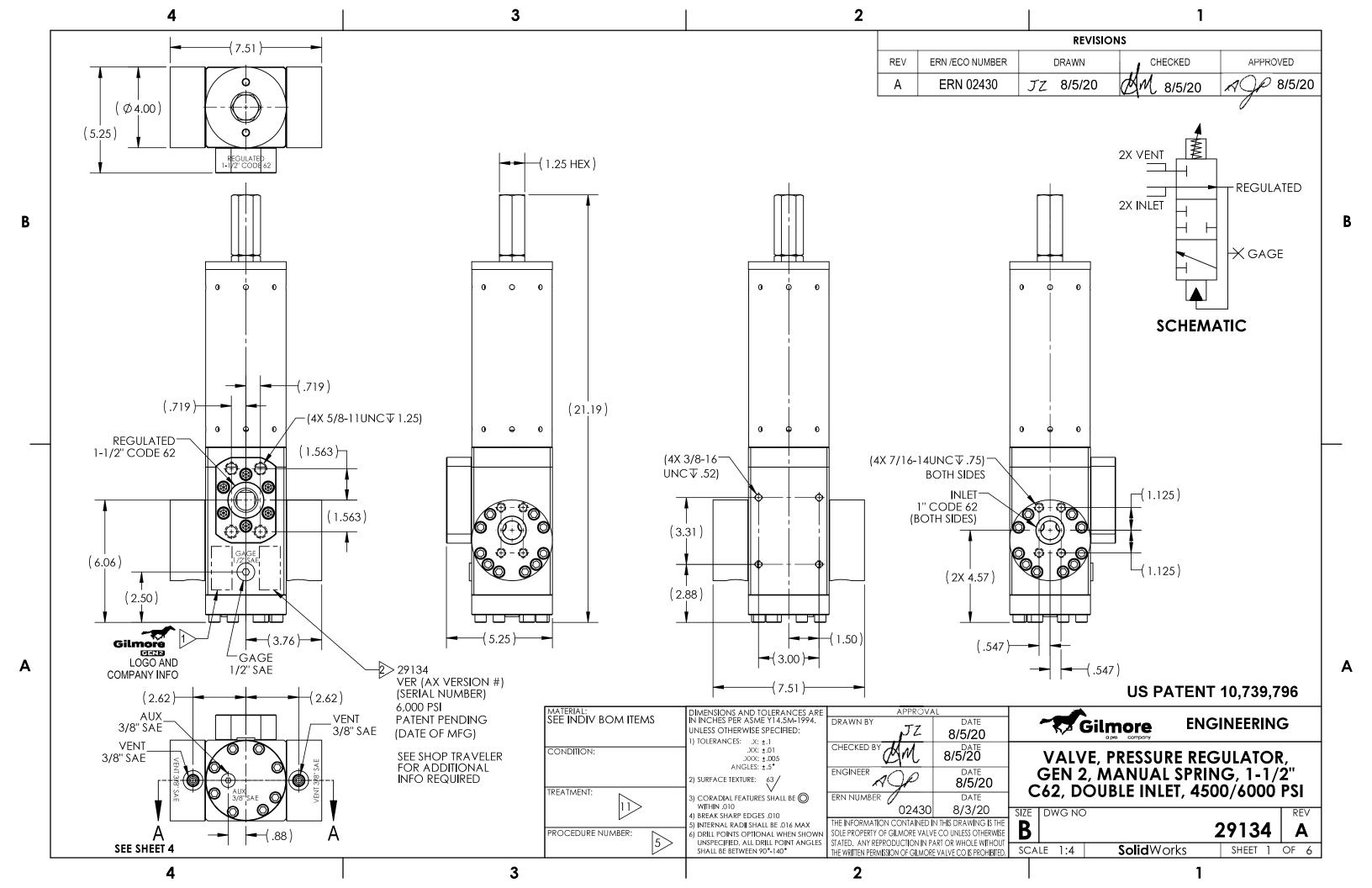
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	-	ENGINEERING		
SIZE	DWG NO			REV
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OPERATING DATA

- FOR TYPICAL FLOW CAPACITY REFER TO DRAWING 84006 FOR DOUBLE INLET.
- ADJUSTMENT SCREW TURNS NEEDED FOR 4,500 PSI SET POINT: 2 +/- 1 TURN OF SPRING COMPRESSION. (BASED ON FULLY OPEN POSITION SHOWN ON SHEET 4.)
- ADJUSTMENT SCREW TORQUE FOR 4,500 PSI SET POINT: 25 +/-5 FT-LB.
- CHANGE IN SET POINT PER ADJUSTMENT SCREW TURN: 550 +/-50 PSI.
- SET POINT ADJUSTED TO LESS THAN 2,000 PSI MAY RESULT IN NON-LINEAR DROP IN FLOW CAPACITY.
- FOR MORE DETAILED OPERATION INFORMATION REFER TO SERVICE MANUAL 51030.

PRESSURE DATA

MAXIMUM INLET PRESSURE RATING: 6,000 PSI **REGULATED RANGE:** 4,500 - 2,000 PSI TYPICAL DEADBAND AT 5000 PSI SUPPLY: 400 ± 100 PSI TYPICAL DEADBAND AT 3000 PSI SUPPLY: 200 ±50 PSI MAXIMUM REGULATED AND VENT PRESSURE RATING: 4500 PSI

FLOW DATAFULLY OPEN CV REGULATED: 14 (CALC) 2 (CALC) FULLY OPEN CV VENT: FULLY OPEN MAX REGULATED FLOW RATE: 250 GPM FLUIDS: WATER BASED DRILLING CONTROL FLUID MINERAL OIL BASED DRILLING CONTROL FLUID

PORTS:

INLET 1: 1" CODE 62 SEAL SUB INLET 2: 1" CODE 62 SEAL SUB REGULATED: 1-1/2" CODE 62 SEAL SUB

VENT 1: 3/8" SAE VENT 2: 3/8" SAE GAGE: 1/2" SAE AUX: 3/8" SAE

GENERAL DATA:

TEMP RANGE: 32°F TO 150°F

APPROX WEIGHT: 73 LBS

NOTES:

- MARK "ASSEMBLY W.O." AT VALVE ASSEMBLY IN ACCORDANCE WITH MA-W-9-10, BY GILMORE.
- MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- REGULATED RANGE SPECIFIED ENSURES ADEQUATE AMOUNT OF SPRING PRELOAD IS PRESENT FOR RELIABLE AND REPEATABLE SET POINT ADJUSTMENT.
- X IN THE BOM INDICATES PARTS IN REPAIR KIT 29134 RK AND SEAL KIT 29134 SK.

ASSEMBLY PROCEDURE: 50309 STANDARD FAT PROCEDURE: 50310 EXTENDED FAT PROCEDURE: 50311 SERVICE MANUAL: 51030

TORQUE TO 10 FT-LB

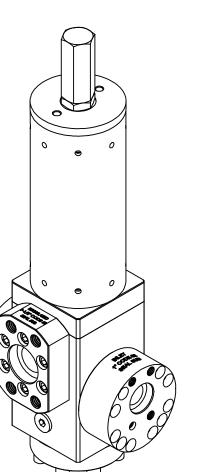
TORQUE TO 20 FT-LB

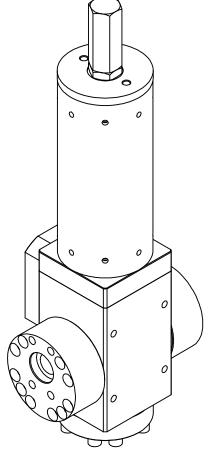
TORQUE TO 5 FT-LB

TORQUE TO 40 FT-LB

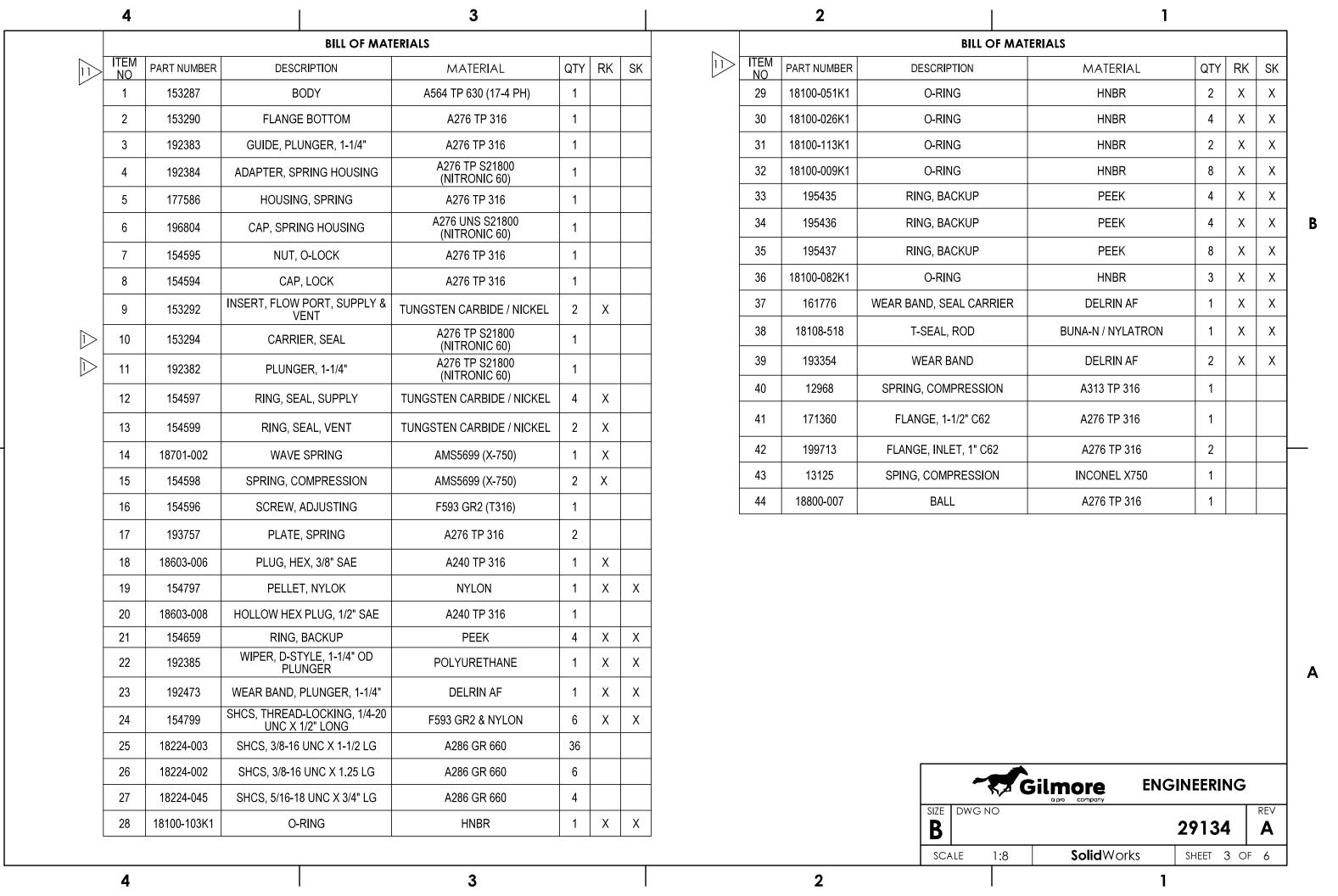
TORQUE TO 20 FT-LB

ALL MANUFACTURED ITEMS ARE PASSIVATED.





Gilmore **ENGINEERING** SIZE DWG NO REV 29134 **Solid**Works SCALE 1:4 SHEET 2 OF



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