

## Product Information Bulletin (PIB)

***Gilmore Compact Pressure Regulator***

REV	DATE	DESCRIPTION	ORIGIN (issued by)	APPROVED
002	06/18/21	Document No: 135-050721-002	AP	BR
001	05/07/21	Document No: 135-050721-001	AP	BR

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**For more information:**

Call (800) 469-8786

[Gilmore@proserv.com](mailto:Gilmore@proserv.com)

Gilmore, A Proserv Company  
1231 Lumpkin Road  
Houston, TX 77043

## Product Information Bulletin (PIB)

# *Gilmore Compact Pressure Regulator*

Gilmore announces the new Compact Pressure Regulator product line for critical hydraulic control systems, operating with supply pressures up to 15,000 psi.

With Tungsten Carbide shear seal trim, the Compact Pressure Regulator is a simple, robust manual spring valve design that provides the utmost reliability. Its small footprint can be readily panel mounted.

### Features and Benefits:

- Qualification exceeds industry requirements
  - 7,500 endurance cycles
- Supply pressure up to 15,000 psi
- Extensive regulated pressure range from 9000 psi – 3000 psi
- Failsafe manual spring configuration
- Construction allows for quick and simple field maintenance
- Tungsten Carbide shear seal trim design
- Optional panel mounting bracket available for installation ease
- CRA Material Construction
  - Tungsten Carbide seal trim
  - Nitronic 50 Body
  - Nitronic 60 Seal Carrier
  - T316 Flanges
  - Inconel X-750 Compression Spring



**Figure 1 PN 29149: Compact Pressure Regulator,  
Maximum 15 ksi Inlet, 9 – 3 ksi Regulated Range, 1/4" x 3/8" NPT**

## Product Information Bulletin (PIB)

***Gilmore Compact Pressure Regulator***

Gilmore has exceeded industry requirements by qualifying the new Compact Pressure Regulator design to 7,500 cycles, with a flow rate of 4 gpm, at 15,000 psi inlet & 3000 psi setpoint with 1% - 4% water glycol test fluid.

The new Gilmore Compact Pressure Regulators are now available for purchase. Examples of assembly configurations are listed below for reference. Gilmore will create other customized Compact Pressure Regulator configurations at customer request.

Please contact Gilmore Customer Service to request a quotation for the Compact Pressure Regulator listed below, or for other custom configurations as required.

**Table 1. New Compact Pressure Regulator and Kit Part Numbers:**

Item	New Valve Description	New Valve PN	New Repair Kit PN	New Seal Kit PN
1	Valve, Compact Regulator, 15 ksi Inlet, 9 – 3 ksi setpoint range, 1/4" Supply and Vent, 3/8" Regulated NPT Ports	29149	29149 RK	29149 SK
2	Valve, Compact Regulator, 15 ksi Inlet, 9 – 3 ksi setpoint range, 1/4" Supply and Vent, 3/8" Regulated NPT Ports, Panel Bracket	29150	29150 RK	29150 SK
3	Valve, Compact Regulator, 15 ksi Inlet, 9 – 3 ksi setpoint range, 1/4" MP Ports	29164	29164 RK	29164 SK
4	Valve, Compact Regulator, 15 ksi Inlet, 9 – 3 ksi setpoint range, 1/4" MP Ports, Panel Bracket	29167	29167 RK	29167 SK

## *Gilmore Compact Pressure Regulator*

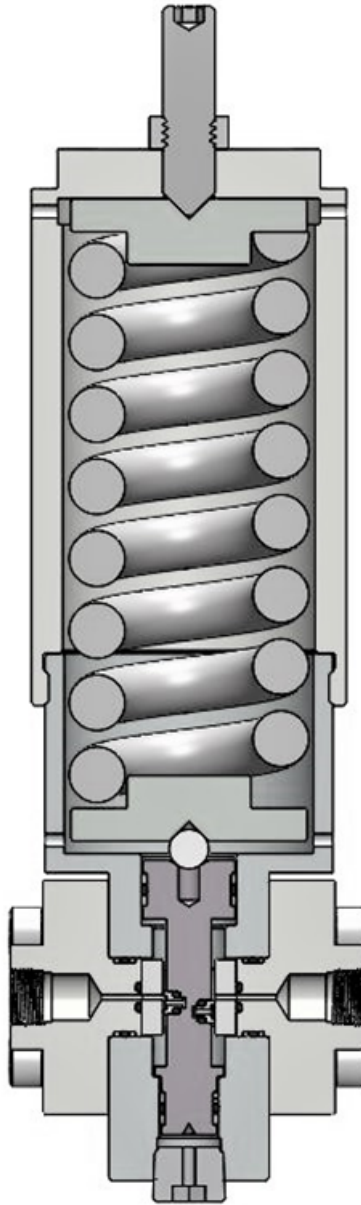


Figure 2. PN 29149: Compact Pressure Regulator, Maximum 15 ksi Inlet, 9 – 3 ksi Regulated Range, 1/4 x 3/8 NPT

Please contact Gilmore Customer Service to request any drawings, manuals and quotations for the new Compact Pressure Regulators at [Gilmore@proserv.com](mailto:Gilmore@proserv.com).

1

### PRESSURE DATA

- VALVE MAWP: 15,000 PSI  
REGULATED PRESSURE RANGE: 3,000 - 9,000 PSI  
DEADBAND: 900 +/- 100 PSI AT 15,000 PSI SUPPLY  
700 +/- 100 PSI AT 10,000 PSI SUPPLY  
TYPICAL FLOW RATE: 4 GPM  
ADJUSTMENT SCREW TORQUE MAX 35 FT-LB

## REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
C	ECO 020676	JZ 5/6/21	RV 5/6/21	AO 5/6/21

## PORTS

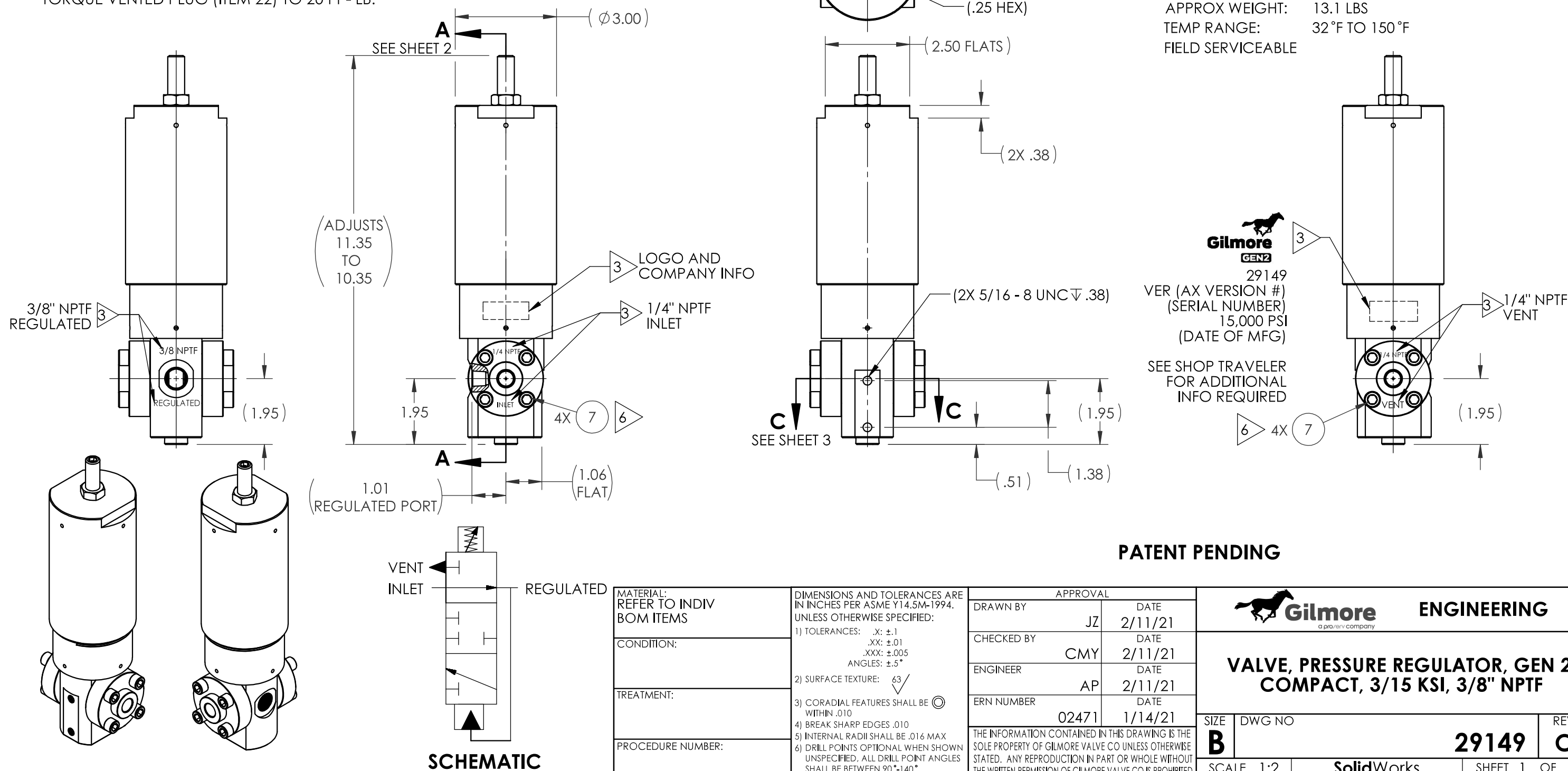
INLET PORT: 1/4" NPTF  
REGULATED PORT: 3/8" NPTF  
VENT PORT: 1/4" NPTF

## FLOW DATA

Cv: .08 (CALC)  
FLUIDS: WATER BASED DRILLING CONTROL FLUID  
MINERAL OIL BASED DRILLING CONTROL FLUID

## GENERAL DATA

APPROX WEIGHT: 13.1 LBS  
TEMP RANGE: 32°F TO 150°F  
FIELD SERVICEABLE



**PATENT PENDING**



**Gilmore**  
a proserv company

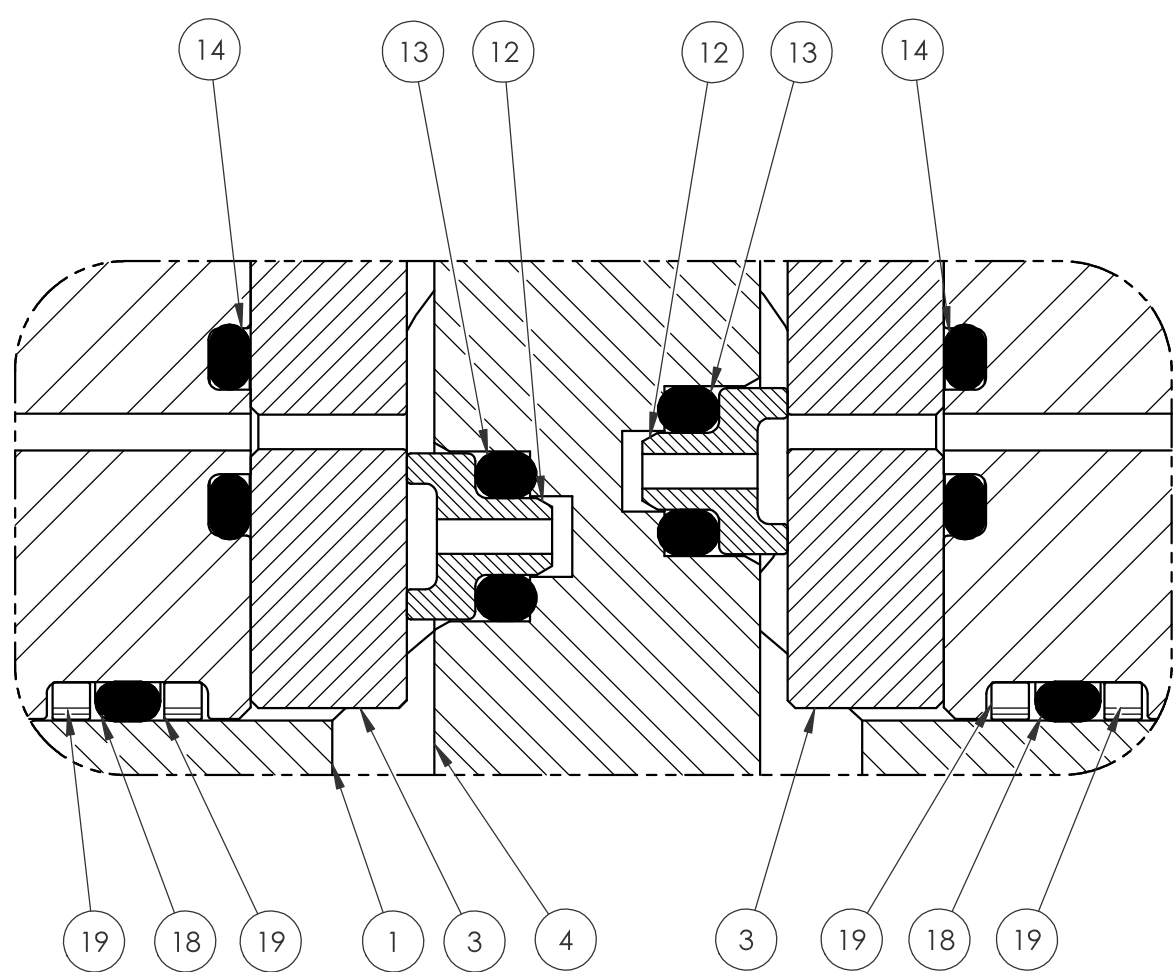
**ENGINEERING**

**VALVE, PRESSURE REGULATOR, GEN 2,  
COMPACT, 3/15 KSI, 3/8" NPTF**

SIZE <b>B</b>	DWG NO <b>29149</b>	REV <b>C</b>
SCALE 1:2	<b>SolidWorks</b>	SHEET 1 OF

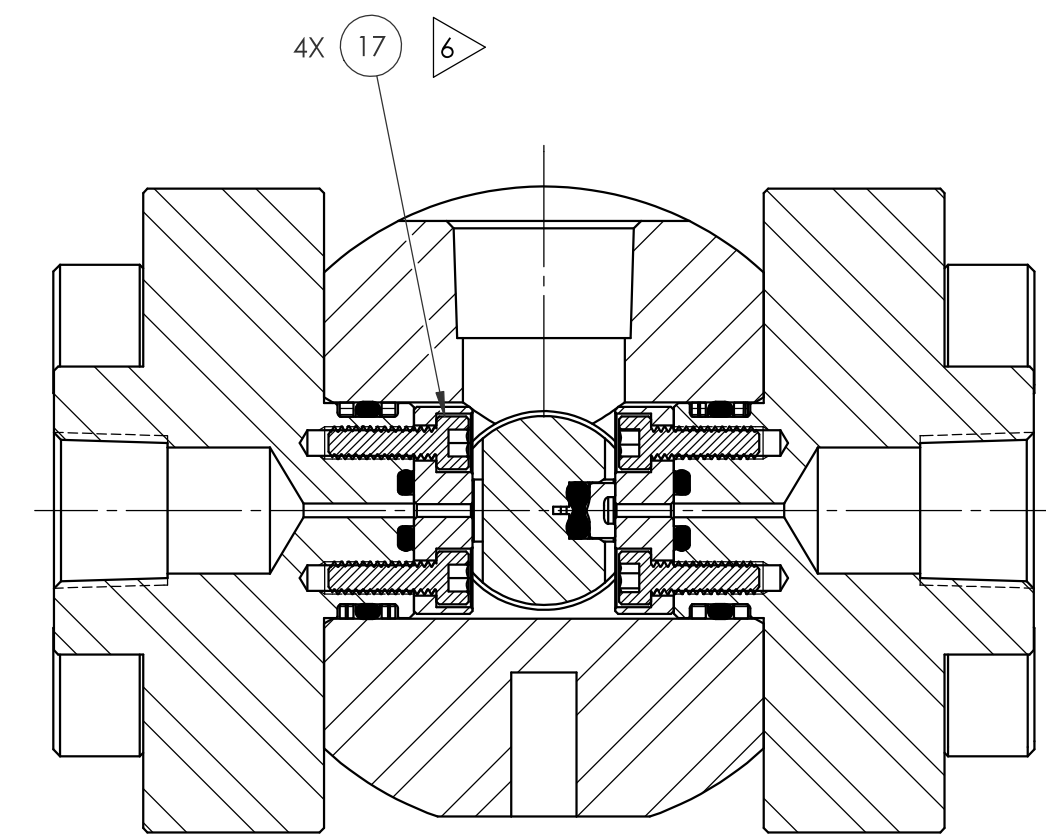
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**DETAIL B**

(REFER TO SHEET 4 FOR POSITIONS)

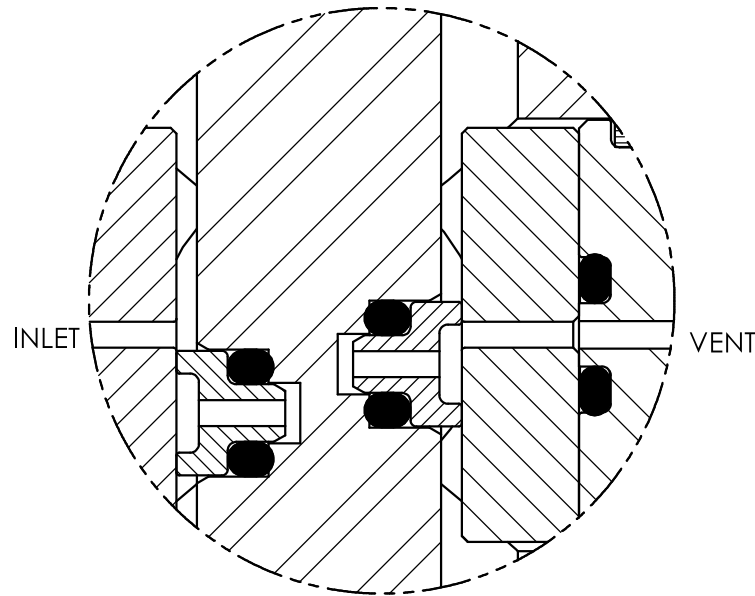


**SECTION C-C**

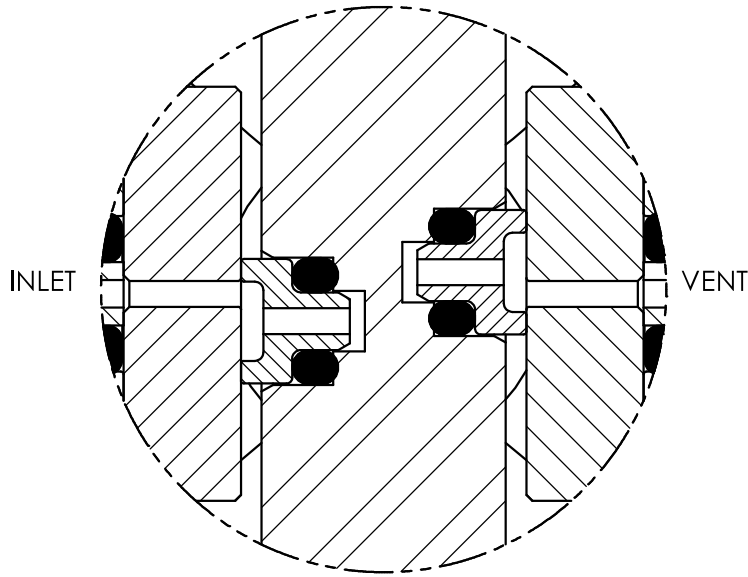
 <b>Gilmore</b> <small>a pro/erv company</small> <b>ENGINEERING</b>			
SIZE <b>B</b>	DWG NO <b>29149</b>	REV <b>C</b>	
SCALE 1:2	SolidWorks	SHEET 3 OF 4	

B

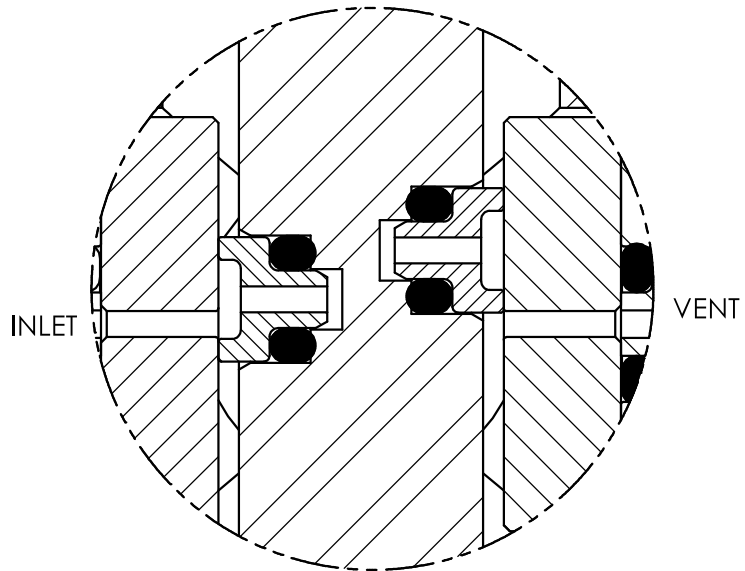
B



DETAIL B  
OPEN



DETAIL B  
CLOSED



DETAIL B  
VENT

A

A



ENGINEERING

SIZE

**B**

DWG NO

**29149**

REV

**C**

SCALE

1:2

**SolidWorks**

SHEET 4 OF 4



- NOTES:
- 1 MARKING: MARK COMPONENT WITH ASSEMBLY W.O. AS SHOWN ON COMPONENT DRAWING.
  - 2. "X" IN THE BOM DEPICTS PARTS IN REPAIR KIT 29150 RK, AND SEAL KIT 29150 SK.
  - 3 MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
  - 4 ASSEMBLY PROCEDURE: 50331  
STANDARD FAT PROCEDURE: 50332  
EXTENDED FAT PROCEDURE: 50333  
SERVICE MANUAL: 51033
  - 5 ALL MANUFACTURED ITEMS ARE PASSIVATED
  - 6 TORQUE CAPSCREW (ITEM 7) TO 10 FT - LB.  
TORQUE CAPSCREW (ITEM 17) TO 5 IN - LB.  
TORQUE VENTED PLUG (ITEM 22) TO 20 FT-LB.

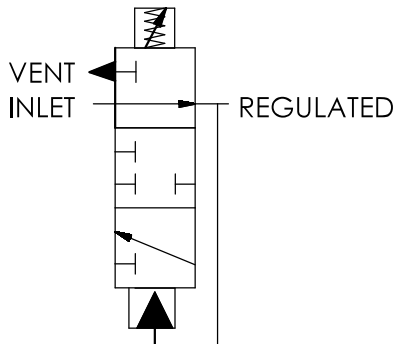
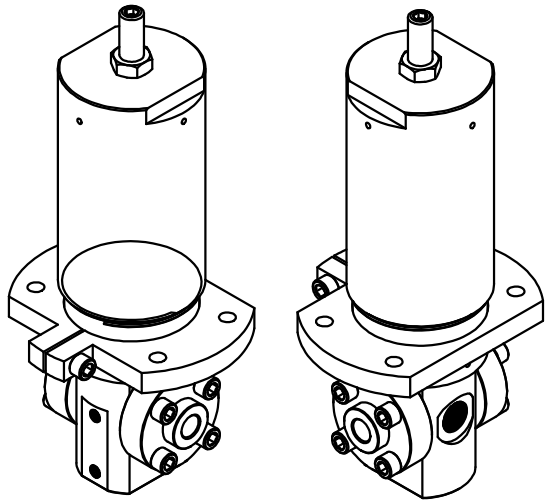
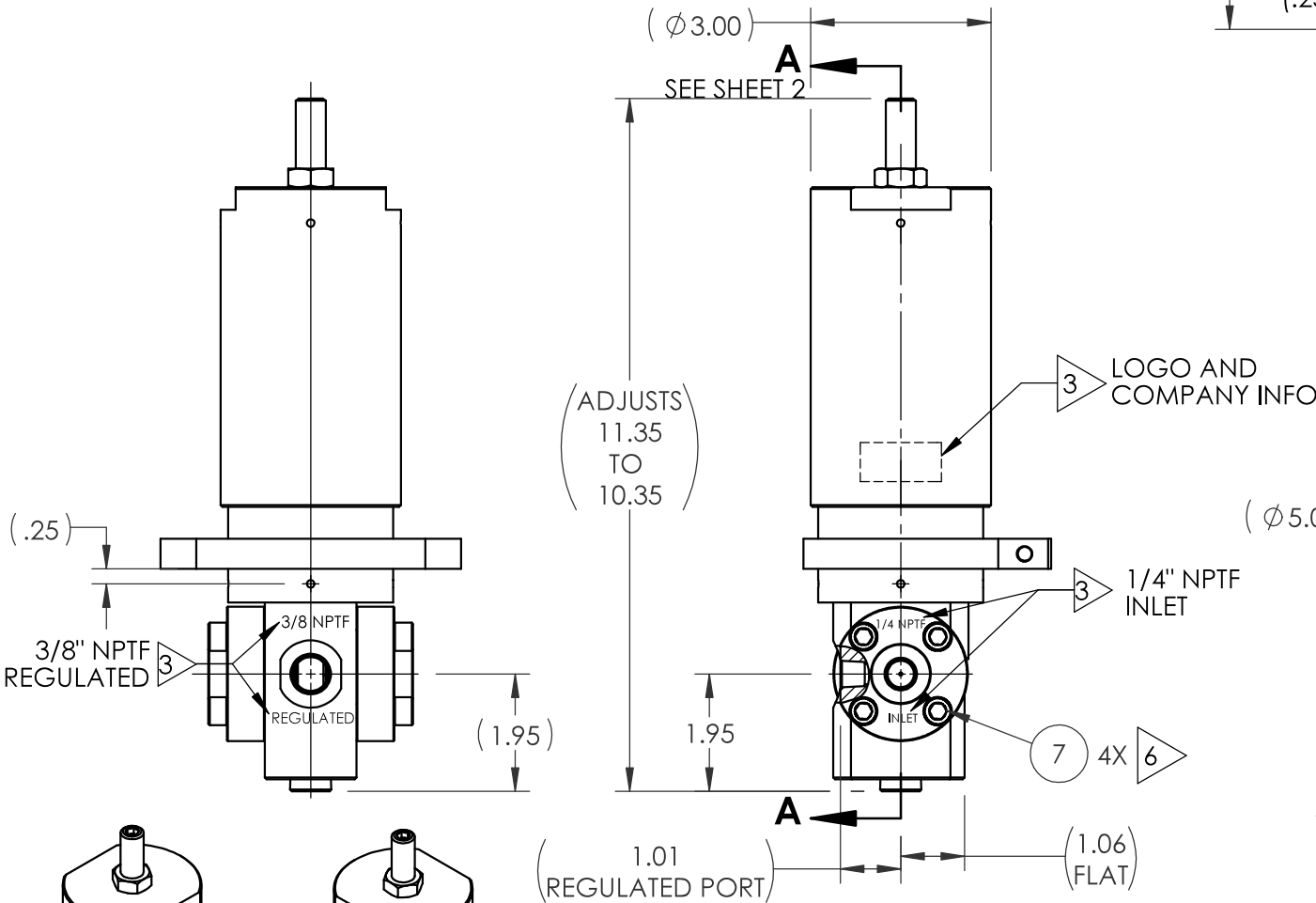
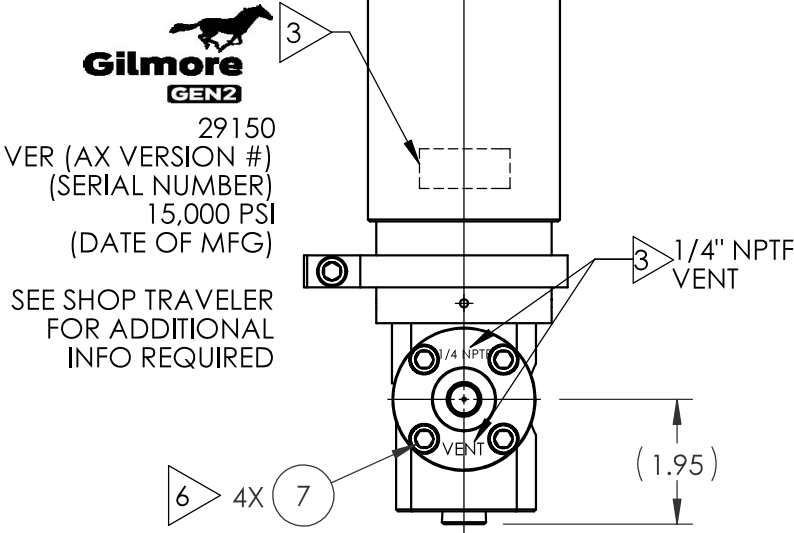
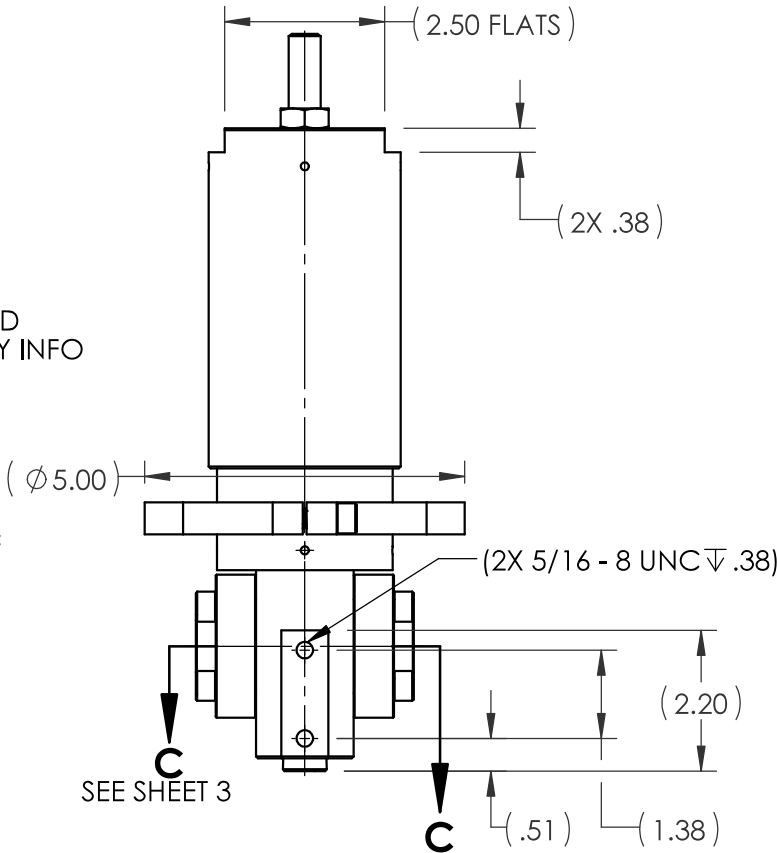
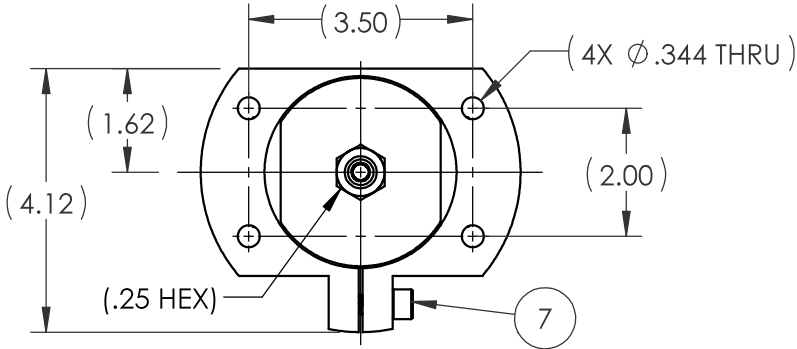
**PRESSURE DATA**  
VALVE MAWP: 15,000 PSI  
REGULATED PRESSURE RANGE: 3,000 - 9,000 PSI  
DEADBAND: 900 +/- 100 PSI AT 15,000 PSI SUPPLY  
700+/- 100 PSI AT 10,000 PSI SUPPLY  
TYPICAL FLOW RATE: 4 GPM  
ADJUSTMENT SCREW TORQUE MAX 35 FT-LB.

REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
B	ECO 020676	JZ 5/6/21	RV 5/6/21	AJP 5/6/21

**PORTS**  
INLET PORT: 1/4" NPTF  
REGULATED PORT: 3/8" NPTF  
VENT PORT: 1/4" NPTF

**FLOW DATA**  
Cv: .08 (CALC)  
FLUIDS: WATER BASED DRILLING CONTROL FLUID  
MINERAL OIL BASED DRILLING CONTROL FLUID


**GENERAL DATA**  
APPROX WEIGHT: 13.3 LBS  
TEMP RANGE: 32°F TO 150°F  
FIELD SERVICEABLE

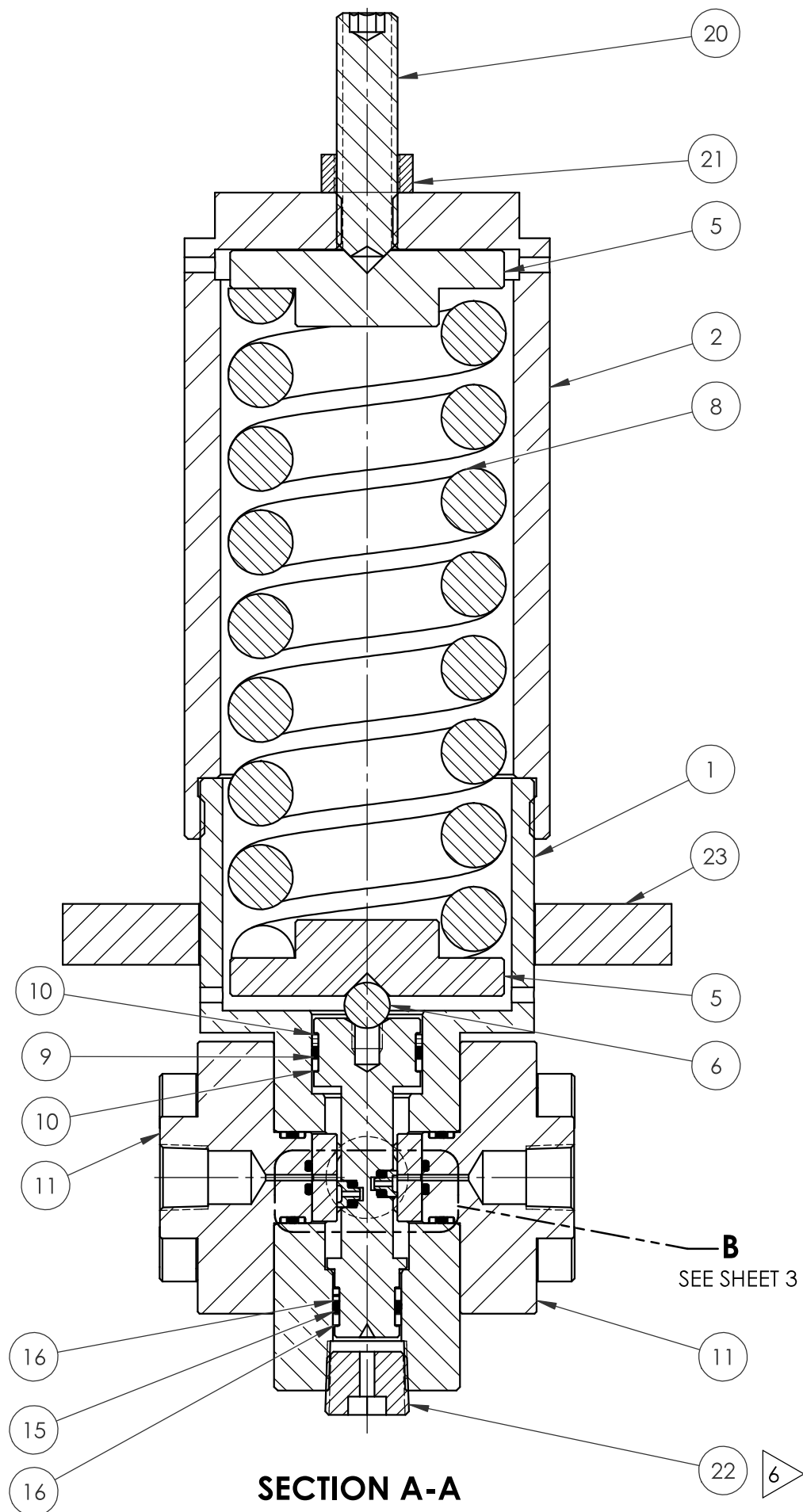


**SCHEMATIC**

MATERIAL: REFER TO INDIV BOM ITEMS	DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994. UNLESS OTHERWISE SPECIFIED: 1) TOLERANCES: .X: ±.1 .XX: ±.01 .XXX: ±.005 ANGLES: ±.5° 2) SURFACE TEXTURE: 63/ 3) CORADIAL FEATURES SHALL BE  WITHIN .010 4) BREAK SHARP EDGES .010 5) INTERNAL RADII SHALL BE .016 MAX 6) DRILL POINTS OPTIONAL WHEN SHOWN UNSPECIFIED, ALL DRILL POINT ANGLES SHALL BE BETWEEN 90°-140°	APPROVAL	
CONDITION:		DRAWN BY	DATE
TREATMENT:		CHECKED BY	DATE
PROCEDURE NUMBER:		ENGINEER	DATE
		ERN NUMBER	DATE
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		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GILMORE VALVE CO UNLESS OTHERWISE STATED. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF GILMORE VALVE CO IS PROHIBITED.	

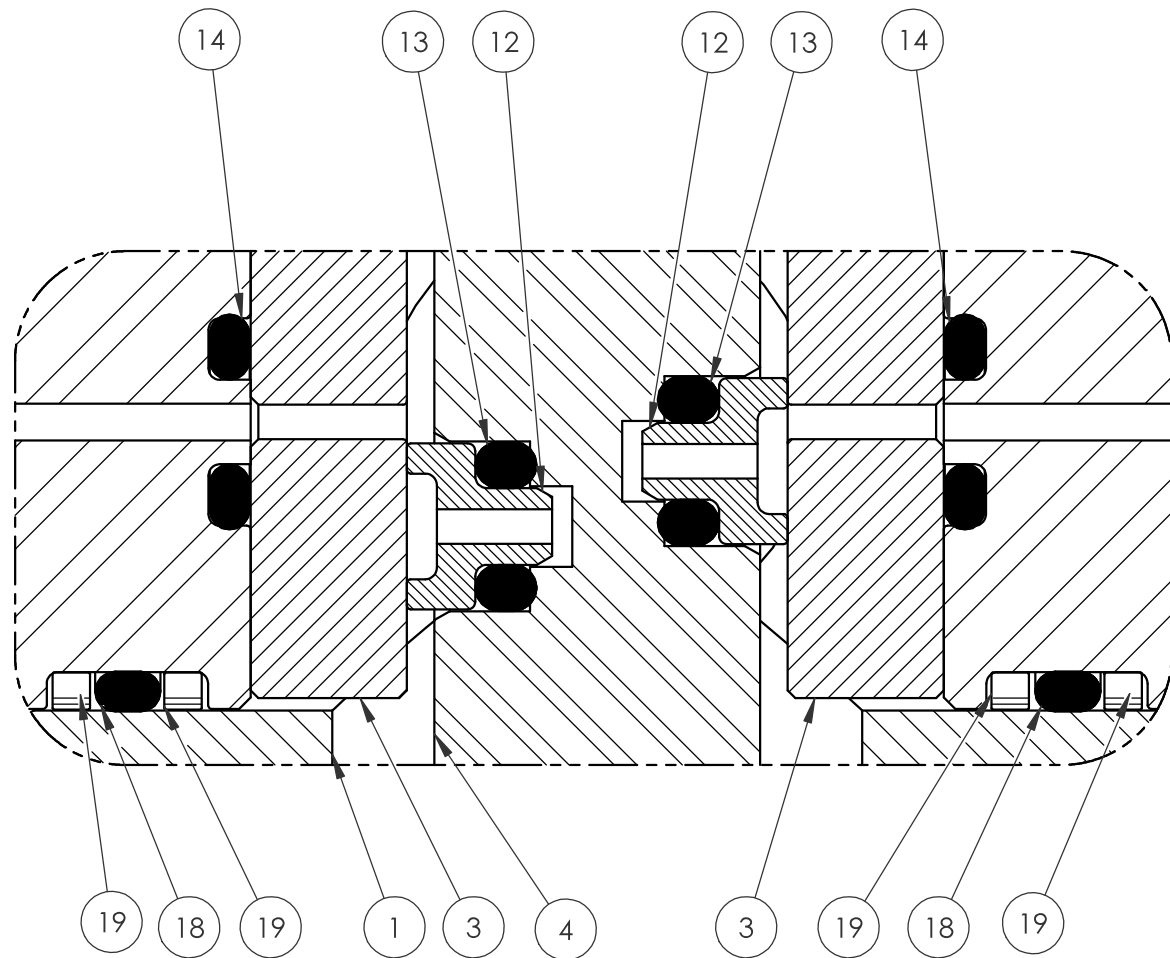
**PATENT PENDING**

 <b>Gilmore</b> <small>a proserv company</small>		<b>ENGINEERING</b>	
<b>VALVE, PRESSURE REGULATOR, GEN 2, COMPACT, BRACKET, 3/15 KSI, 3/8" NPTF</b>			
SIZE	DWG NO		REV
<b>B</b>	<b>29150</b>		<b>B</b>
SCALE	1:2	<b>SolidWorks</b>	SHEET 1 OF 4



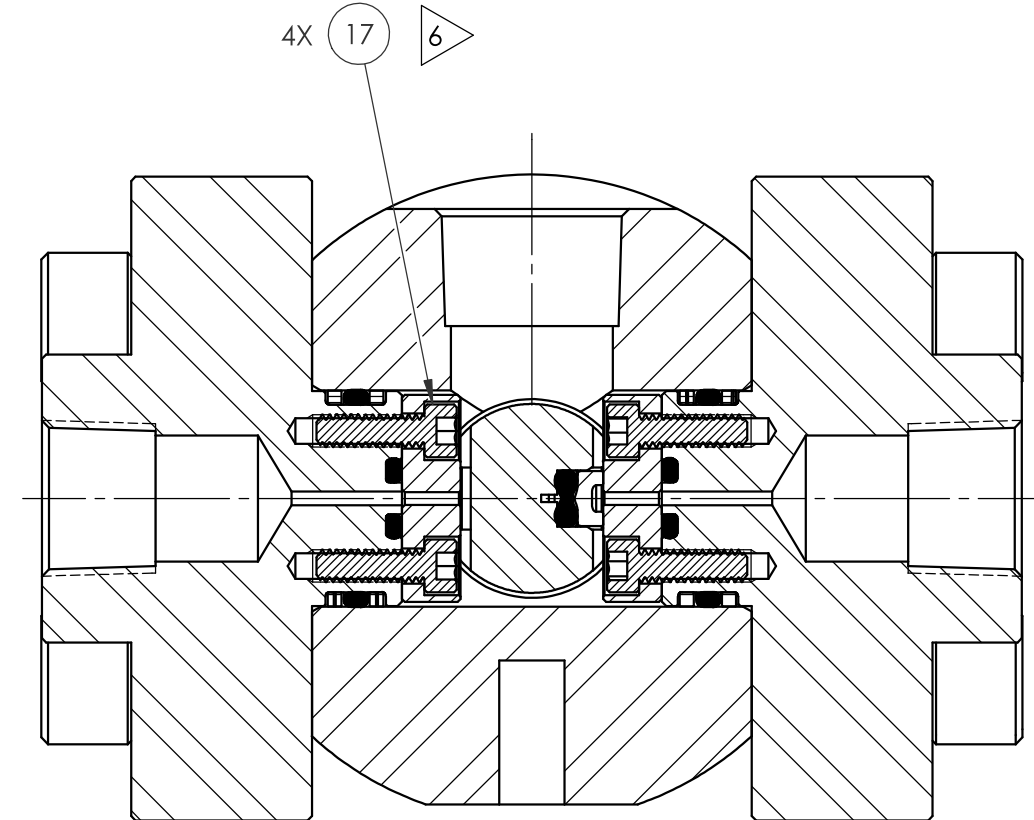
	BILL OF MATERIALS						
5	ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK	SK
	1	216344	BODY, 3/8" NPTF, COMPACT REGULATOR	A276 TP S20910 (NITRONIC 50)	1		
	2	216345	HOUSING, SPRING, VALVE, COMPACT REGULATOR, GEN 2	A276 UNS S21800 (NITRONIC 60)	1		
	3	205409	PLATE, SEAL, COMPACT REGULATOR	TUNGSTEN CARBIDE /NICKEL	2	X	
1	4	205410	CONTAINER, SEAL, COMPACT REGULATOR	A276 TP S21800 (NITRONIC 60)	1	X	
	5	216346	SPRING DISK	A276 TP 316 (316 SS)	2		
	6	18800-007	BALL	A276 TP 316 (316 SS)	1		
	7	18224-047	SHCS, 5/16-18 UNC X 1" LG	A453 GR660	9		
	8	214606	SPRING, COMPRESSION	INCONEL X-750	1		
	9	18100-007K1	O-RING	HNBR	1	X	X
	10	212267	BACKUP RING	PEEK	2	X	X
	11	205412	FLANGE, 1/4" NPTF, COMPACT REGULATOR	A276 TP 316 (316 SS)	2		
	12	205414	HYDRO SEAL, VENT, COMPACT REGULATOR	TUNGSTEN CARBIDE /NICKEL	2	X	
	13	18100-014K1	O-RING	HNBR	2	X	X
	14	18100-613K1	O-RING	HNBR	2	X	X
	15	18100-013K1	O-RING	HNBR	1	X	X
	16	205415	BACKUP RING	PEEK	2	X	X
	17	18221-010G	SHCS #4-40 UNC X 3/8" LG NYLON	F593 Gr 2 COND A (316 SS)/NYLON	4	X	X
	18	18100-001K1	O-RING	HNBR	2	X	X
	19	205416	BACKUP RING	PEEK	4	X	X
B	20	216348	ADJUSTMENT SCREW, 1/2"-13 UNC	TP 316	1		
B	21	216349	JAM - NUT, HEX, 1/2"-13 UNC	TP 316	1		
	22	216350	PIPE PLUG, 3/8" NPT, VENTED	TP 316	1		
	23	216547	PANEL BRACKET	A240	1		

 <b>Gilmore</b> <small>a pro/erv company</small>		<b>ENGINEERING</b>	
SIZE <b>B</b>	DWG NO <div style="text-align: right;"><b>29150</b></div>		REV <b>B</b>
SCALE 1:2		<b>SolidWorks</b>	SHEET 2 OF 4



**DETAIL B**

(REFER TO SHEET 4 FOR POSITIONS)



**SECTION C-C**

 <b>Gilmore</b> <small>a pro/erv company</small> <b>ENGINEERING</b>			
SIZE <b>B</b>	DWG NO <b>29150</b>	REV <b>B</b>	
SCALE 1:2	SolidWorks	SHEET 3 OF 4	

4

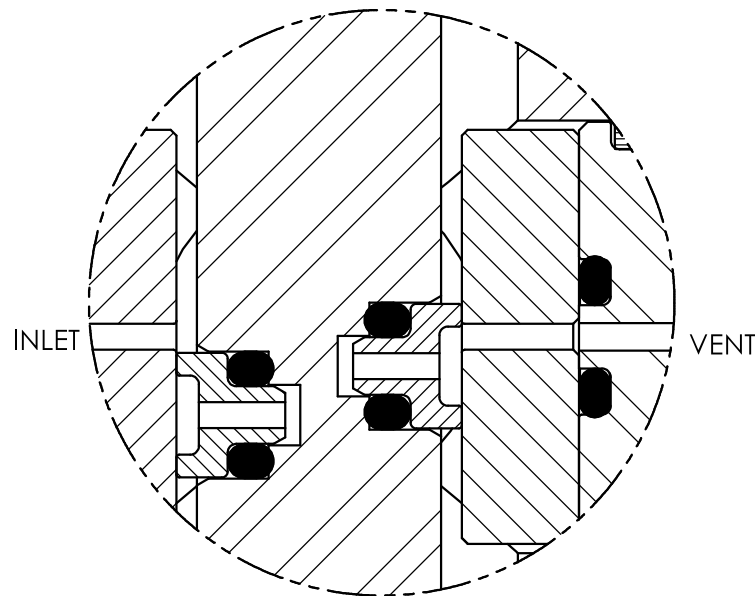
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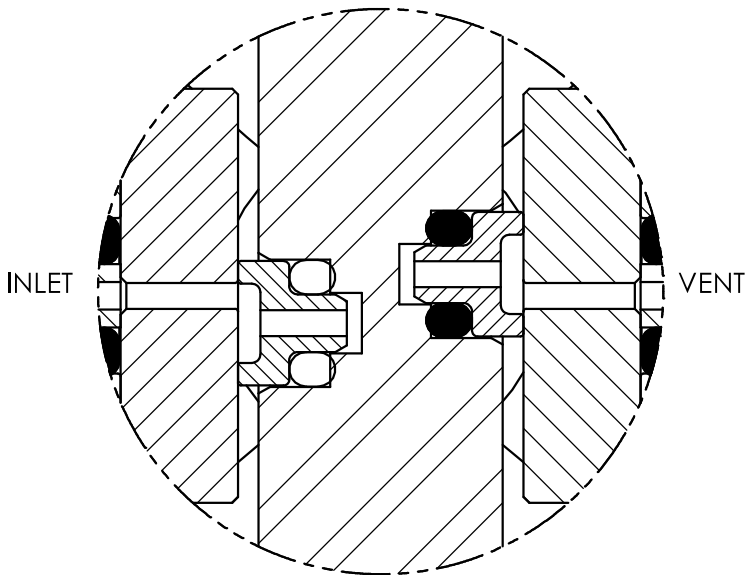
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B

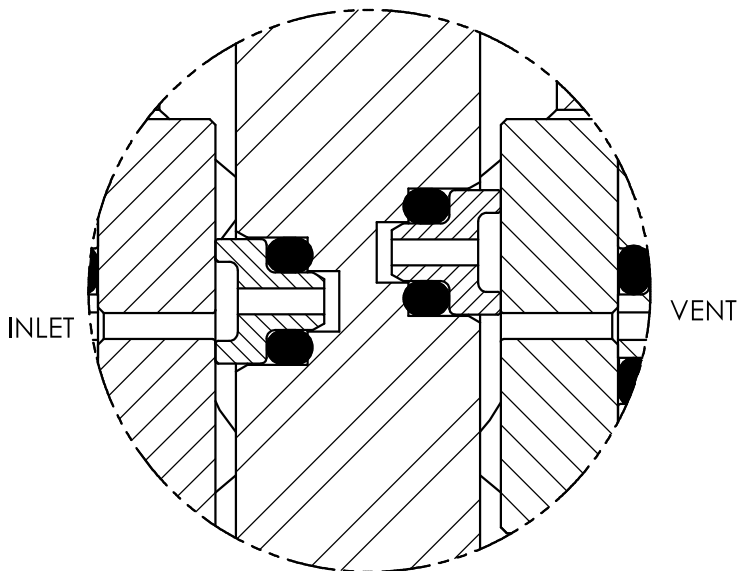
B



DETAIL B  
OPEN



DETAIL B  
CLOSED



DETAIL B  
VENT

A

A

4

3

2

1



ENGINEERING

SIZE

**B**

DWG NO

**29150**

REV

**B**

SCALE

1:2

**SolidWorks**

SHEET 4 OF 4

1

## PRESSURE DATA

- VALVE MAWP: 15,000 PSI  
REGULATED PRESSURE RANGE: 3,000 - 9,000 PSI  
DEADBAND: 900 +/- 100 PSI AT 15,000 PSI SUPPLY  
700 +/- 100 PSI AT 10,000 PSI SUPPLY  
TYPICAL FLOW RATE: 4 GPM  
ADJUSTMENT SCREW TORQUE MAX 35 FT-LB

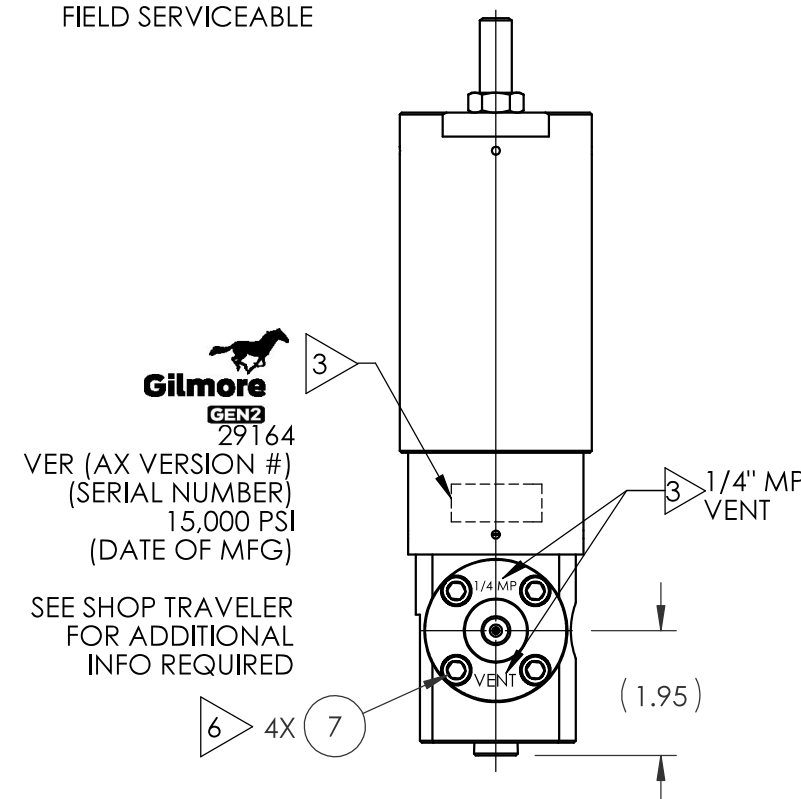
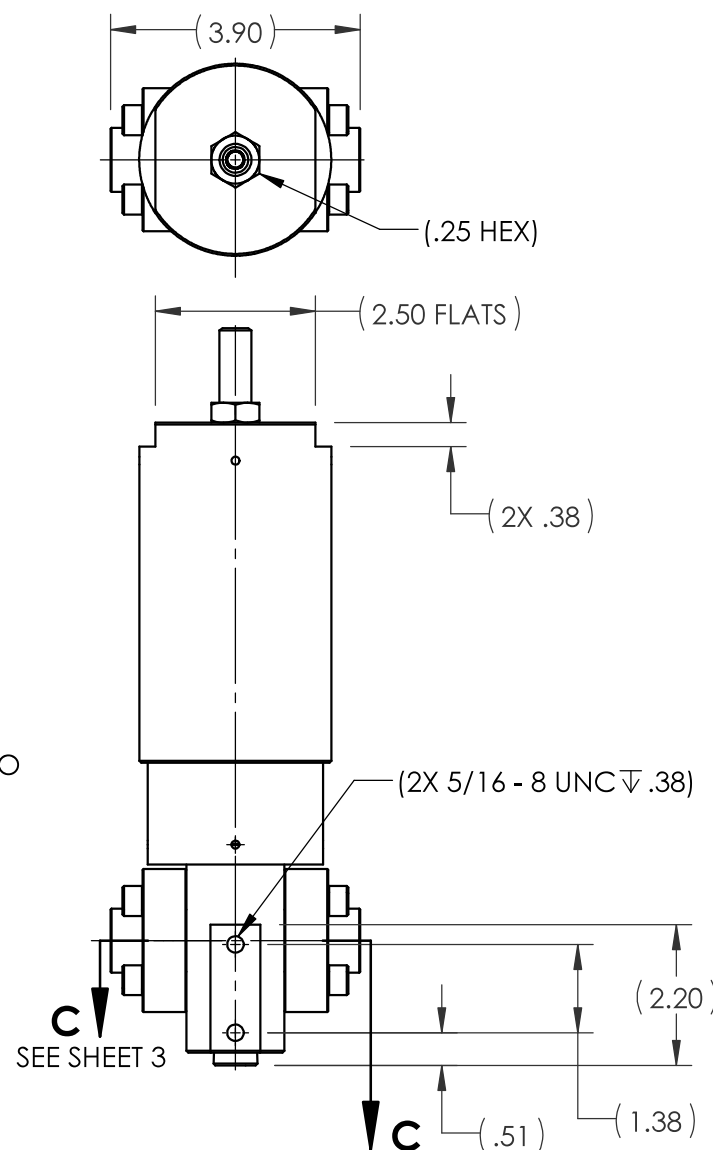
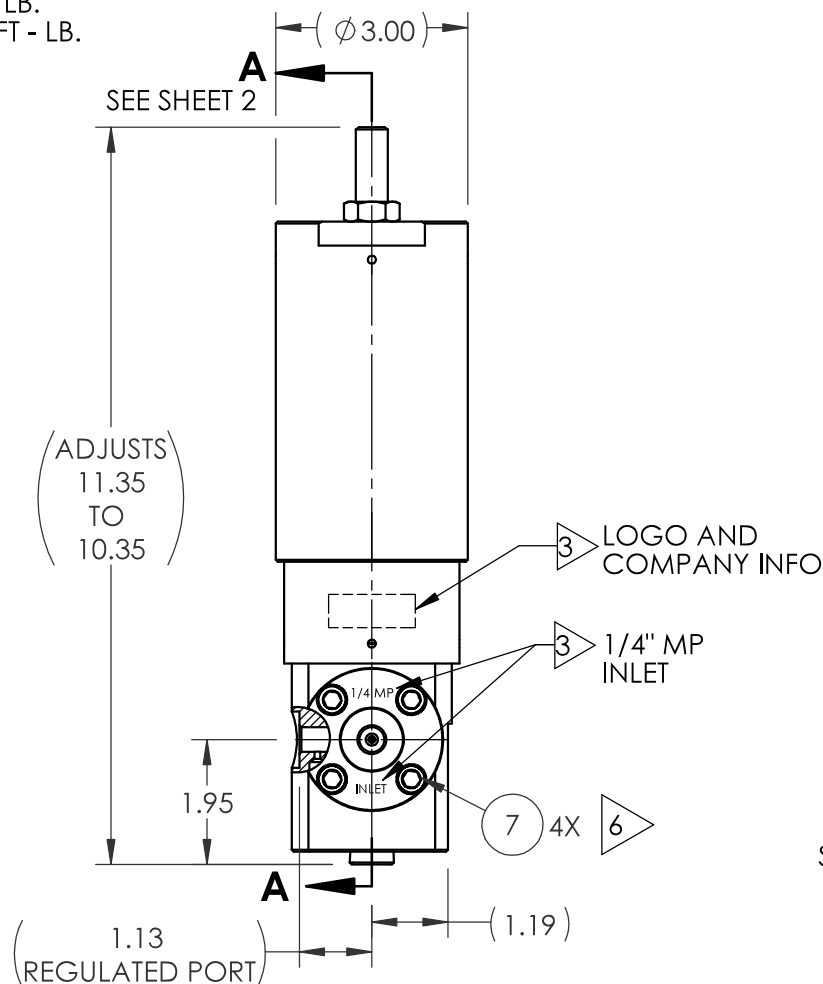
## REVISIONS

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B	ECO 020676	JZ 5/6/21	RV 5/6/21	AP 5/6/21

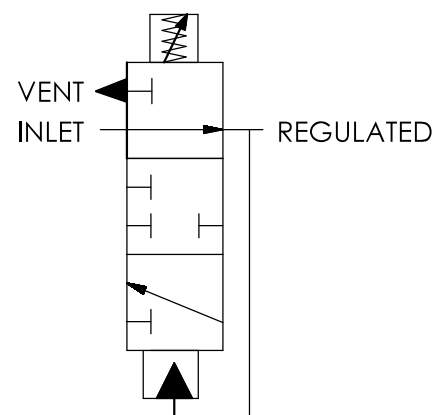
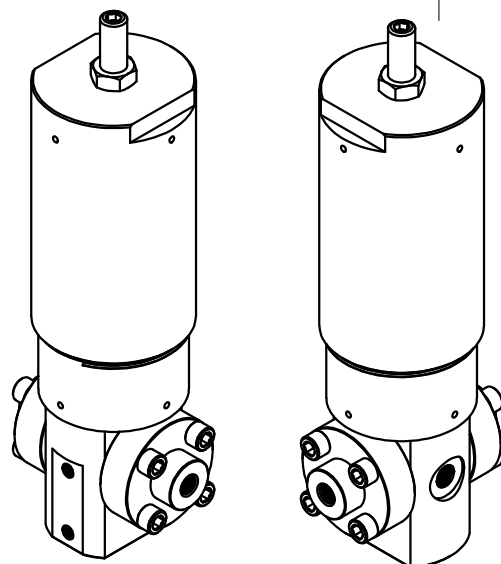
INLET PORT: 1/4" MP  
REGULATED PORT: 1/4" MP  
VENT PORT: 1/4" MP

Cv: .08 (CALC)  
FLUIDS: WATER BASED DRILLING CONTROL FLUID  
MINERAL OIL BASED DRILLING CONTROL FLUID


APPROX WEIGHT: 13.6 LBS  
TEMP RANGE: 32°F TO 150°F  
FIELD SERVICEABLE



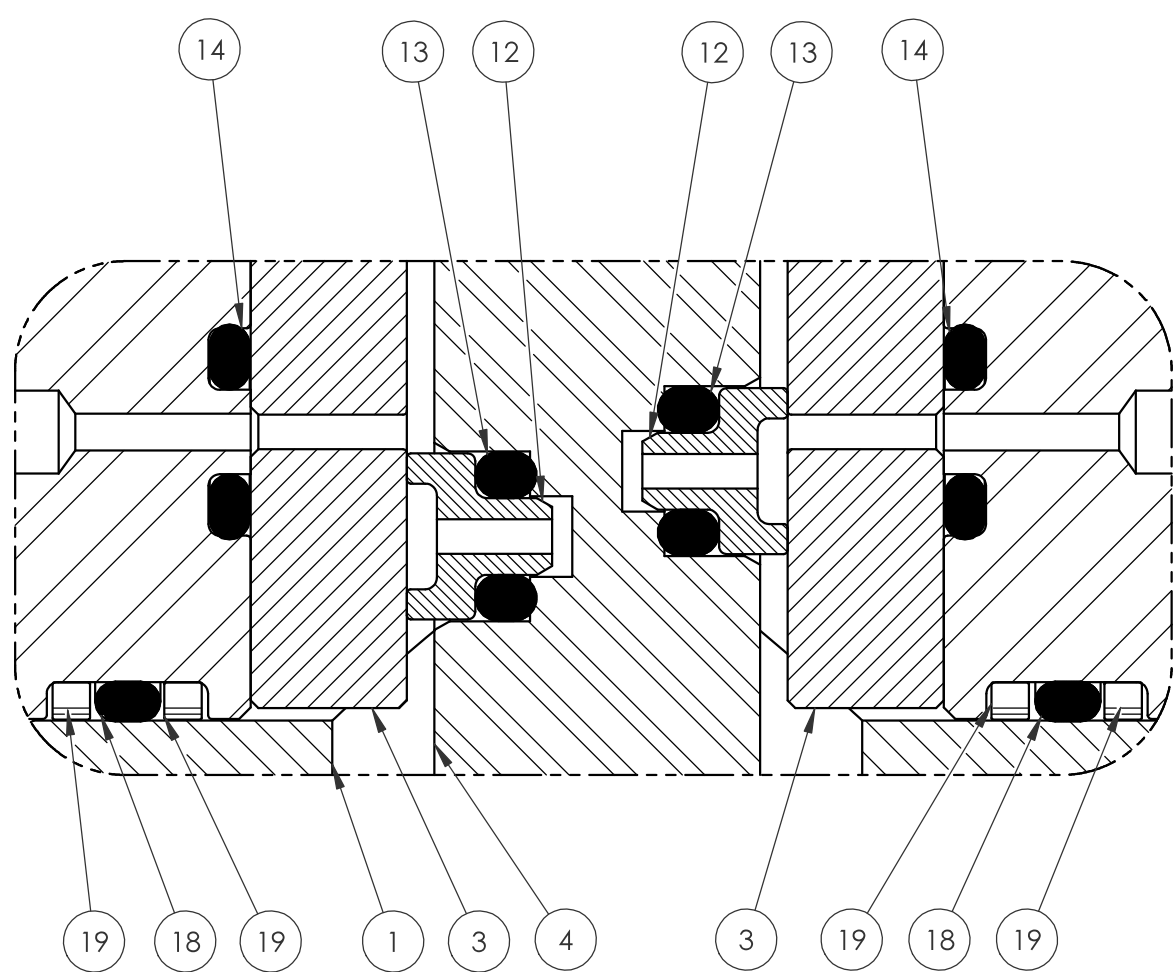
**PATENT PENDING**



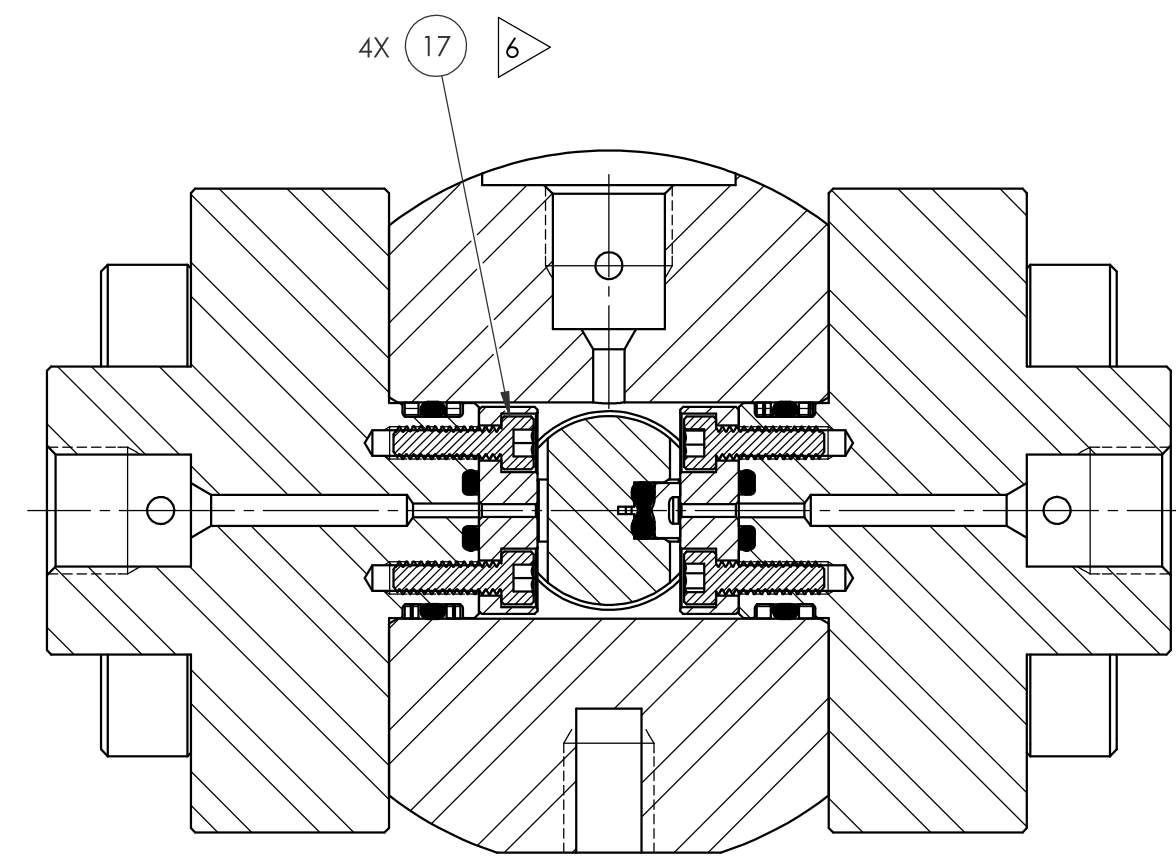
## SCHEMATIC

MATERIAL: REFER TO INDIV BOM ITEMS		DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994. UNLESS OTHERWISE SPECIFIED:  1) TOLERANCES: .X: ±.1 .XX: ±.01 .XXX: ±.005 ANGLES: ±.5°  2) SURFACE TEXTURE: 63/√  3) CORADIAL FEATURES SHALL BE ☉ WITHIN .010 4) BREAK SHARP EDGES .010 5) INTERNAL RADII SHALL BE .016 MAX 6) DRILL POINTS OPTIONAL WHEN SHOWN UNSPECIFIED, ALL DRILL POINT ANGLES SHALL BE BETWEEN 90°-140°	APPROVAL		 <b>Gilmore</b> <small>a precision company</small>		<b>ENGINEERING</b>	
CONDITION:			DRAWN BY JZ	DATE 2/26/21	<b>VALVE, PRESSURE REGULATOR, GEN 2, COMPACT, 3/15 KSI, 1/4" MP</b>			
TREATMENT:			CHECKED BY CMY	DATE 2/26/21				
5			ENGINEER AP	DATE 2/26/21				
PROCEDURE NUMBER:		ERN NUMBER 02481	DATE 2/22/21	SIZE <b>B</b>		DWG NO <b>29164</b>	REV <b>B</b>	
4		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GILMORE VALVE CO UNLESS OTHERWISE STATED. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF GILMORE VALVE CO IS PROHIBITED		SCALE 1:2		SolidWorks	SHEET 1 OF 4	





**DETAIL B**  
(REFER TO SHEET 4 FOR POSITIONS)



**SECTION C-C**

 <b>Gilmore</b> <small>a pro/erv company</small> <b>ENGINEERING</b>			
SIZE <b>B</b>	DWG NO <b>29164</b>	REV <b>B</b>	
SCALE 1:2	SolidWorks	SHEET 3 OF 4	

4

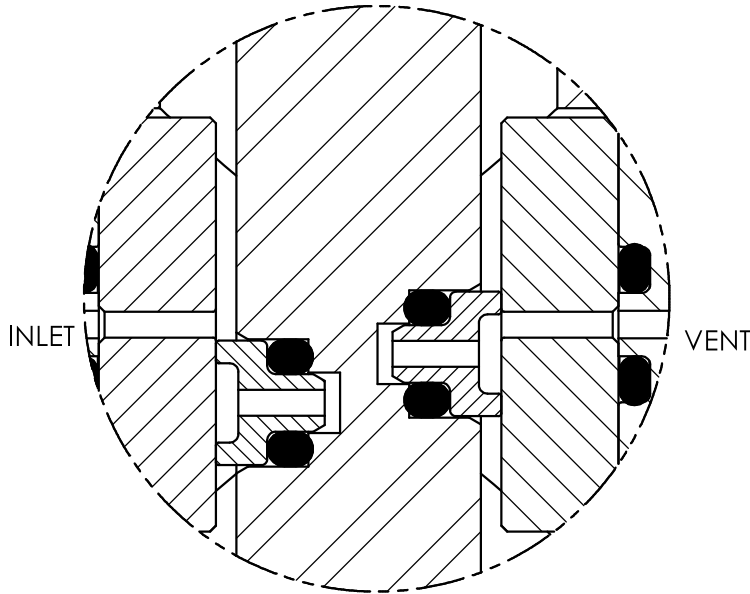
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2

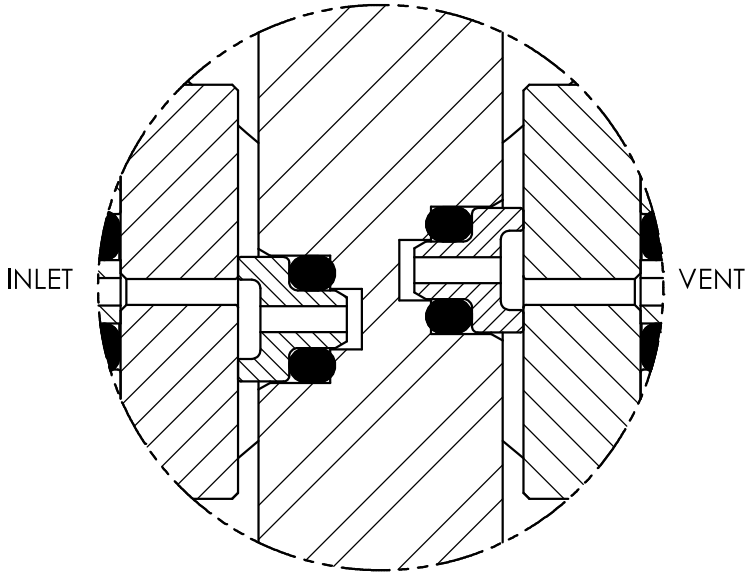
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B

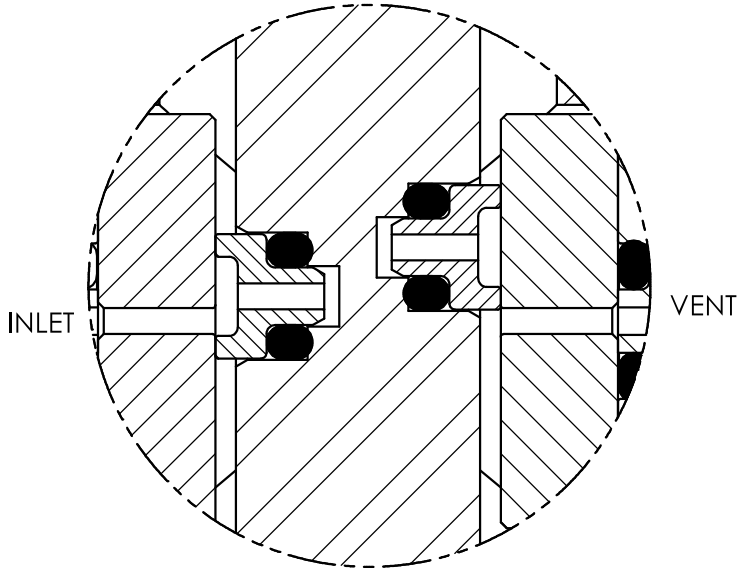
B



DETAIL B  
OPEN



DETAIL B  
CLOSED



DETAIL B  
VENT

A

A

4

3

2

1



ENGINEERING

SIZE

**B**

DWG NO

**29164**

REV

**B**

SCALE

1:2

**SolidWorks**

SHEET 4 OF 4



- NOTES:
- 1 MARKING: MARK COMPONENT WITH ASSEMBLY W.O. AS SHOWN ON COMPONENT DRAWING.
  - 2. "X" IN THE BOM DEPICTS PARTS IN REPAIR KIT 29165 RK, AND SEAL KIT 29165 SK.
  - 3 MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
  - 4 ASSEMBLY PROCEDURE: 50331  
STANDARD FAT PROCEDURE: 50332  
EXTENDED FAT PROCEDURE: 50333  
SERVICE MANUAL: 51033
  - 5 ALL MANUFACTURED ITEMS ARE PASSIVATED
  - 6 TORQUE CAPSCREW (ITEM 7) TO 10 FT - LB.  
TORQUE CAPSCREW (ITEM 17) TO 5 IN - LB.  
TORQUE VENTED PLUG (ITEM 22) TO 20 FT-LB.

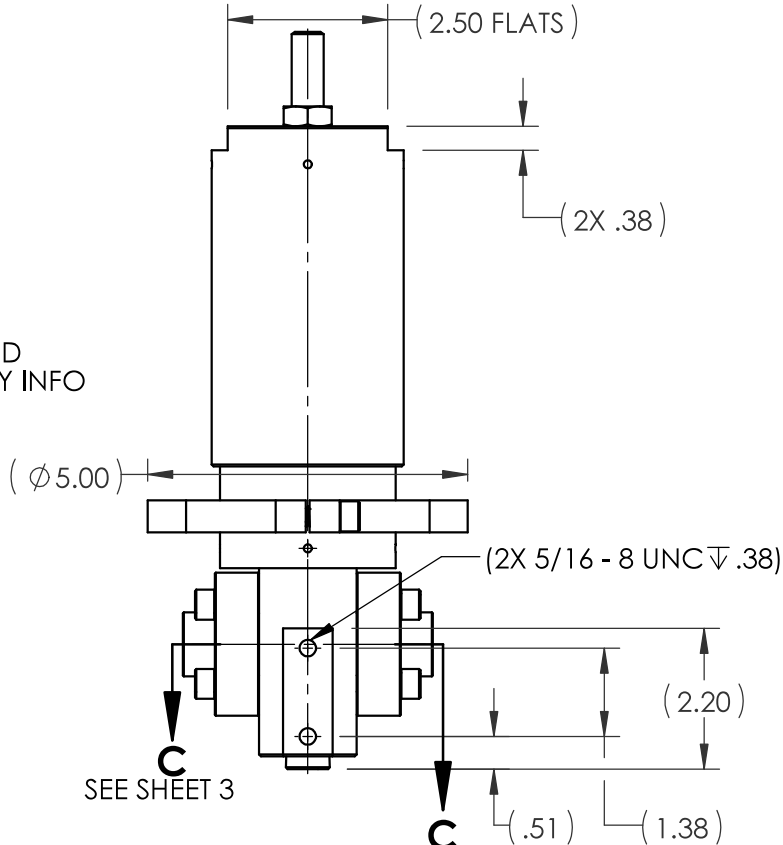
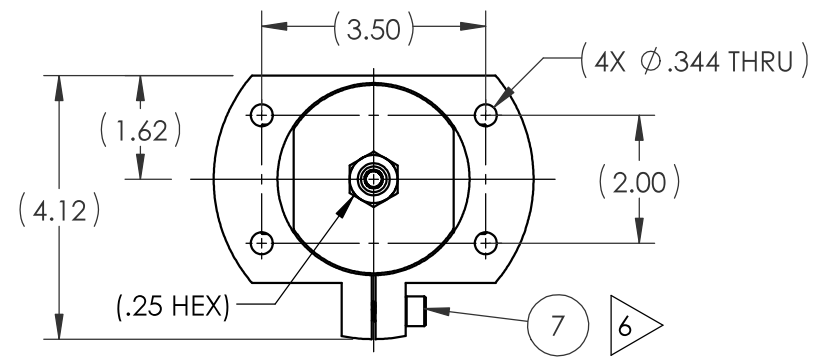
**PRESSURE DATA**  
VALVE MAWP: 15,000 PSI  
REGULATED PRESSURE RANGE: 3,000 - 9,000 PSI  
DEADBAND: 900 +/- 100 PSI AT 15,000 PSI SUPPLY  
700+/- 100 PSI AT 10,000 PSI SUPPLY  
TYPICAL FLOW RATE: 4 GPM  
ADJUSTMENT SCREW TORQUE MAX 35 FT-LB.


REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
B	ECO 020676	JZ 5/6/21	AV 5/6/21	AJP 5/6/21

**PORTS**  
INLET PORT: 1/4" MP  
REGULATED PORT: 1/4" MP  
VENT PORT: 1/4" MP

**FLOW DATA**  
Cv: .08 (CALC)  
FLUIDS: WATER BASED DRILLING CONTROL FLUID  
MINERAL OIL BASED DRILLING CONTROL FLUID

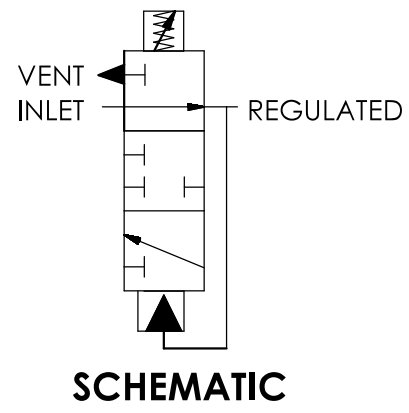
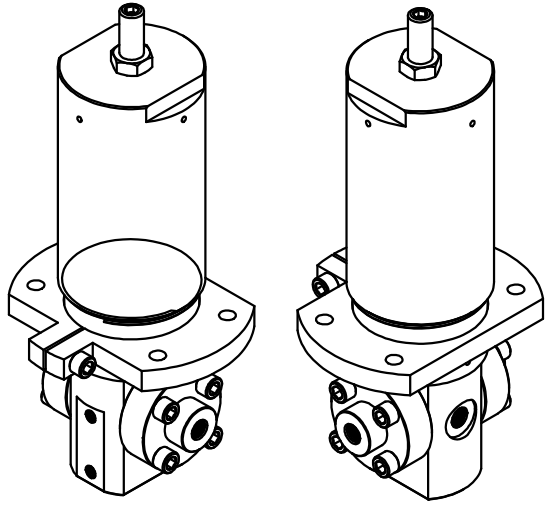
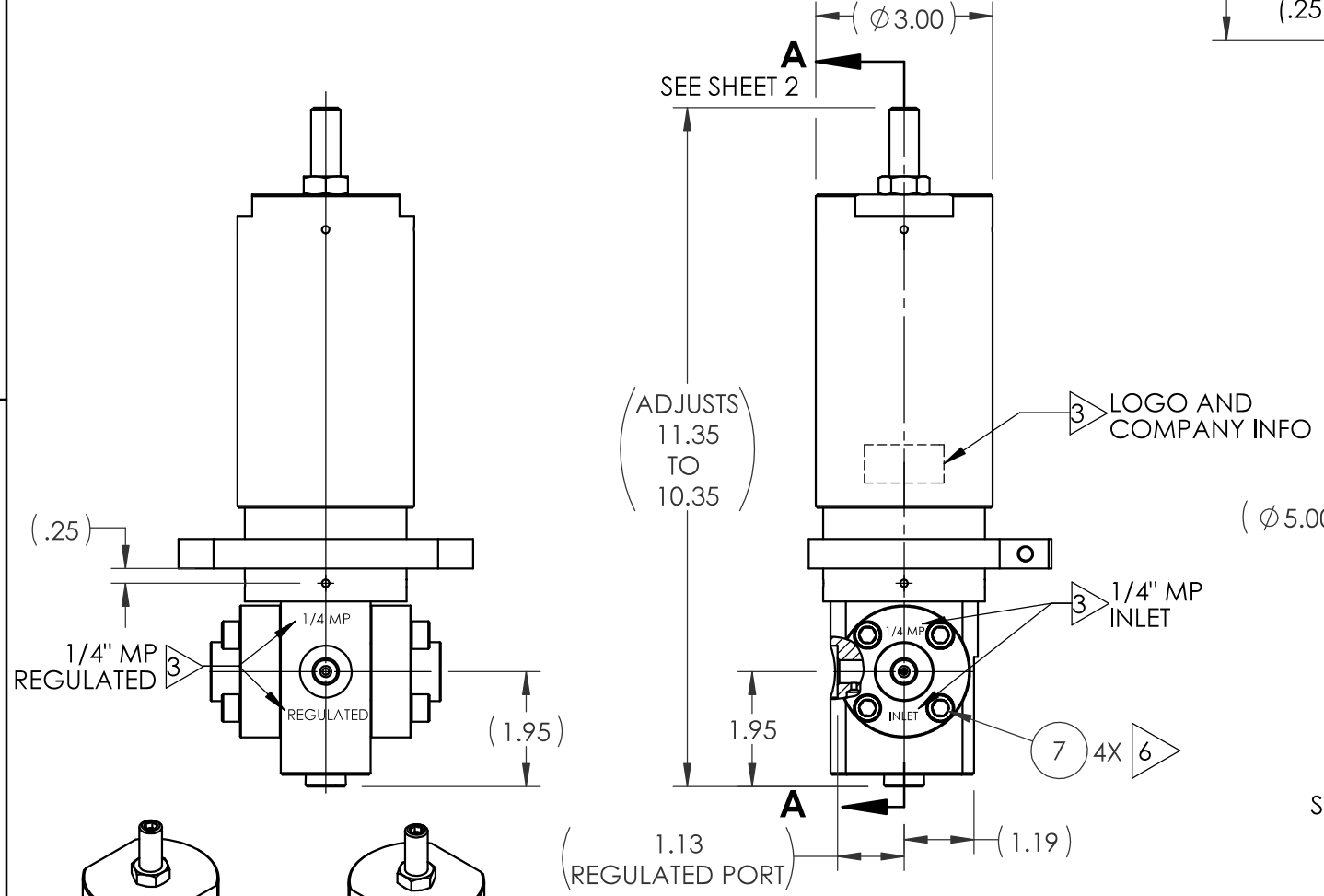
**GENERAL DATA**  
APPROX WEIGHT: 13.9 LBS  
TEMP RANGE: 32°F TO 150°F  
FIELD SERVICEABLE





29165  
VER (AX VERSION #)  
(SERIAL NUMBER)  
15,000 PSI  
(DATE OF MFG)

SEE SHOP TRAVELER  
FOR ADDITIONAL  
INFO REQUIRED



**MATERIAL:**  
REFER TO INDIV  
BOM ITEMS

**CONDITION:**

**TREATMENT:**

**PROCEDURE NUMBER:**

DIMENSIONS AND TOLERANCES ARE  
IN INCHES PER ASME Y14.5M-1994.  
UNLESS OTHERWISE SPECIFIED:

1) TOLERANCES: .X: ±.1  
.XX: ±.01  
.XXX: ±.005  
ANGLES: ±.5°

2) SURFACE TEXTURE: 63/√

3) CORADIAL FEATURES SHALL BE ©  
WITHIN .010

4) BREAK SHARP EDGES .010


5) INTERNAL RADII SHALL BE .016 MAX

6) DRILL POINTS OPTIONAL WHEN SHOWN  
UNSPECIFIED, ALL DRILL POINT ANGLES  
SHALL BE BETWEEN 90°-140°

**APPROVAL**

DRAWN BY	JZ	DATE	2/26/21
CHECKED BY	CMY	DATE	2/26/21
ENGINEER	AP	DATE	2/26/21
ERN NUMBER	02481	DATE	2/23/21

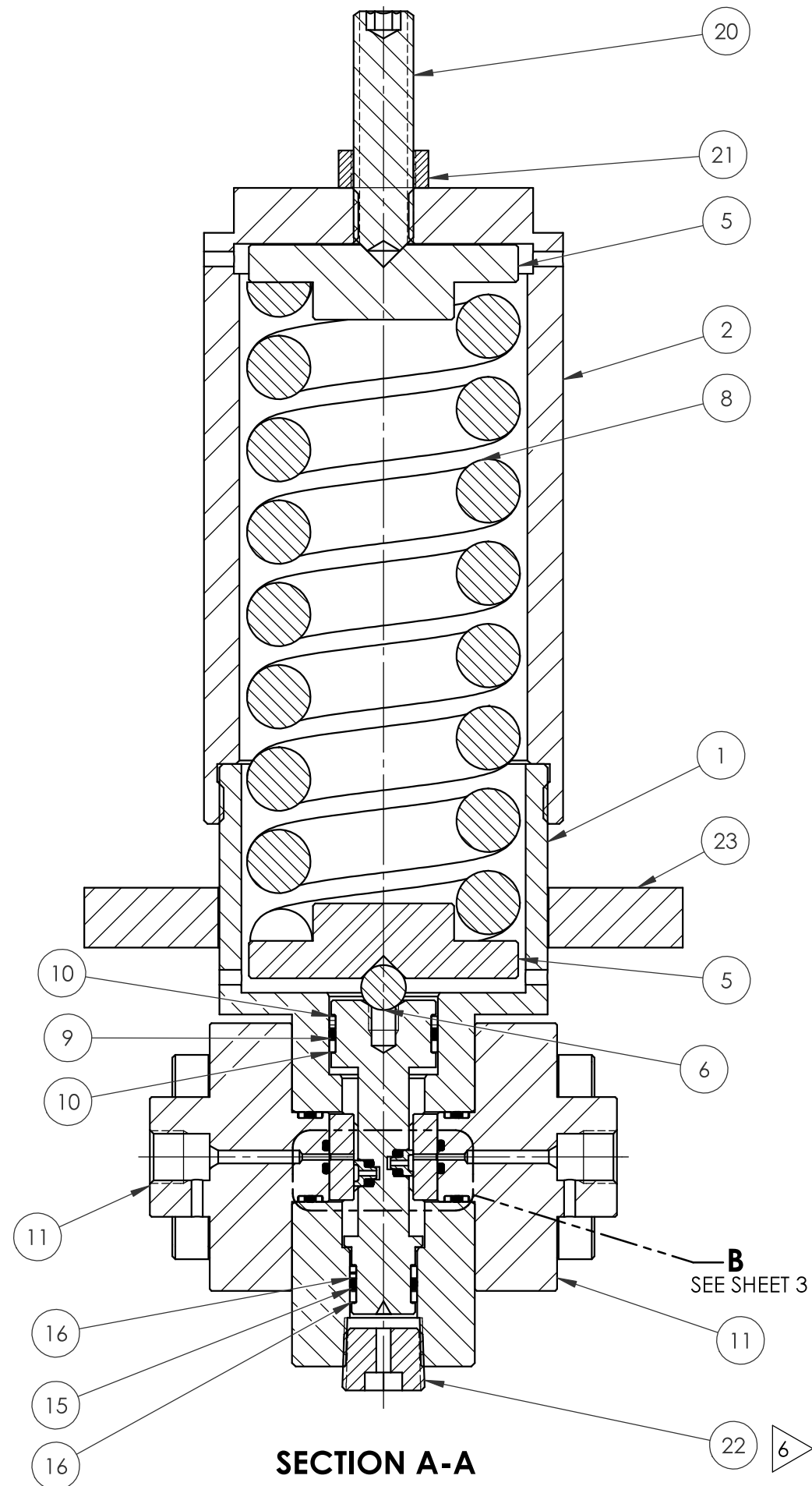
THE INFORMATION CONTAINED IN THIS DRAWING IS THE  
SOLE PROPERTY OF GILMORE VALVE CO UNLESS OTHERWISE  
STATED. ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF GILMORE VALVE CO IS PROHIBITED.

 **ENGINEERING**

**VALVE, PRESSURE REGULATOR,  
GEN 2, COMPACT, BRACKET,  
3/15 KSI, 1/4" MP**

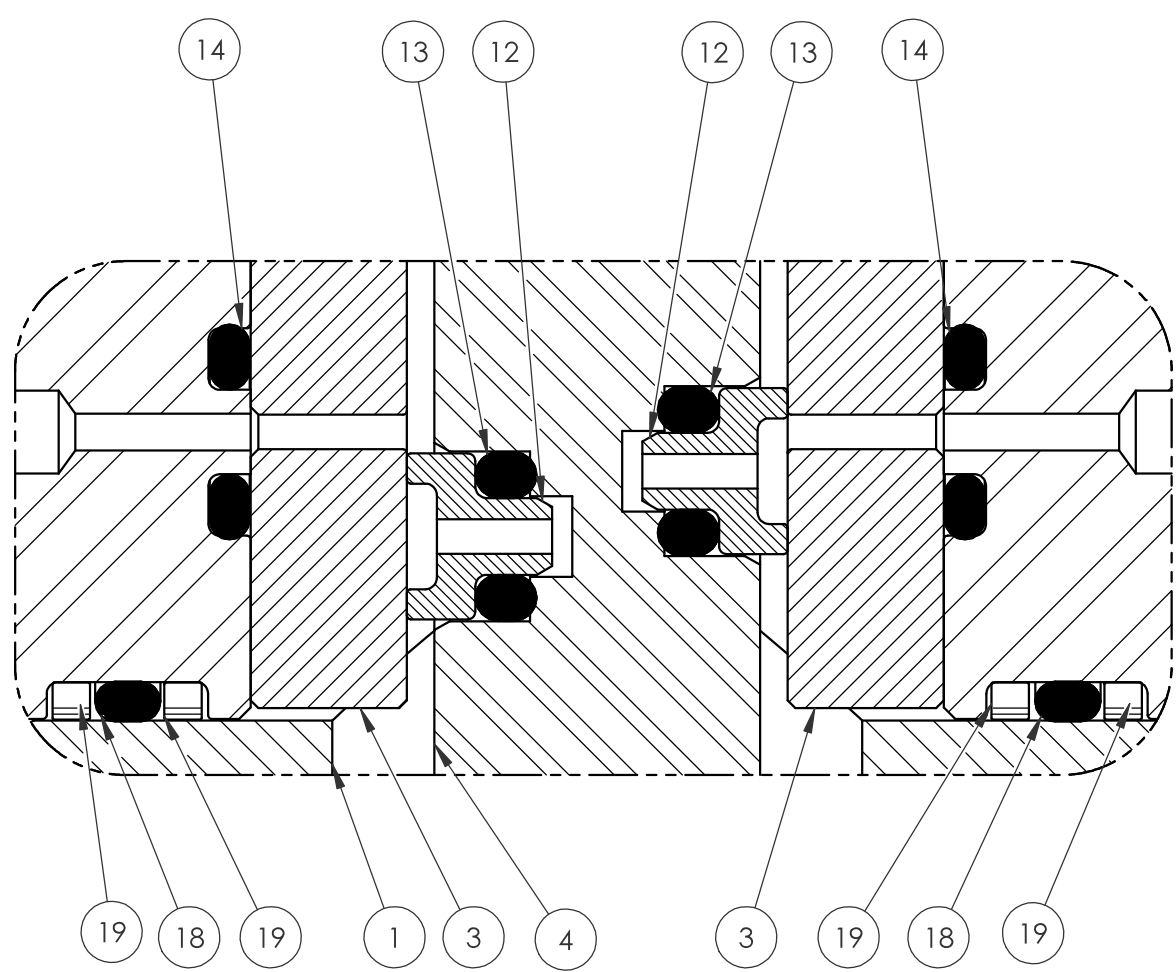
SIZE	DWG NO	REV
<b>B</b>		<b>B</b>

SCALE 1:2    SolidWorks    SHEET 1 OF 4

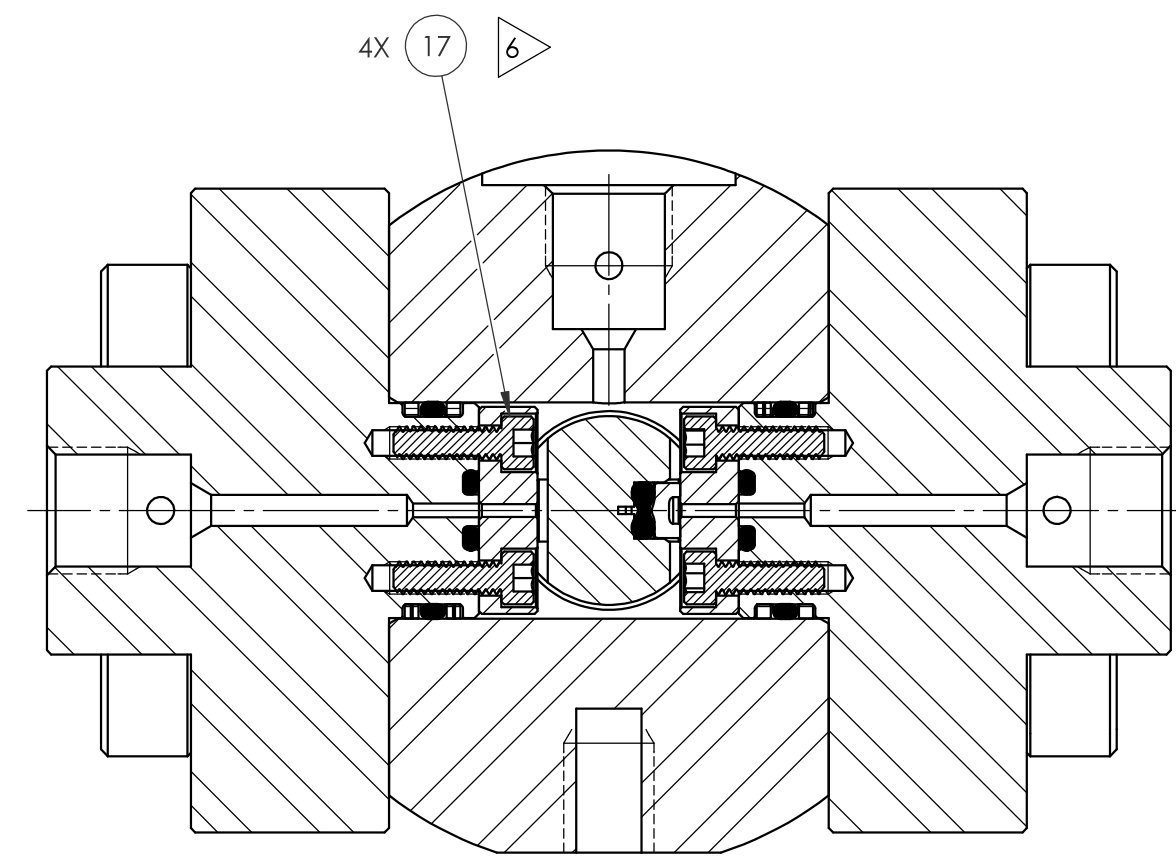


BILL OF MATERIALS							
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK	SK	
5	1	217526	BODY, 1/4" MP, COMPACT REGULATOR	A276 TP S20910 (NITRONIC 50)	1		
	2	216345	HOUSING, SPRING, VALVE, COMPACT REGULATOR, GEN 2	A276 UNS S21800 (NITRONIC 60)	1		
	3	205409	PLATE, SEAL, COMPACT REGULATOR	TUNGSTEN CARBIDE /NICKEL	2	X	
	4	205410	CONTAINER, SEAL, COMPACT REGULATOR	A276 TP S21800 (NITRONIC 60)	1	X	
	5	216346	SPRING DISK	A276 TP 316 (316 SS)	2		
	6	18800-007	BALL	A276 TP 316 (316 SS)	1		
	7	18224-047	SHCS, 5/16-18 UNC X 1" LG	A453 GR660	9		
	8	214606	SPRING, COMPRESSION	INCONEL X-750	1		
	9	18100-007K1	O-RING	HNBR	1	X	X
	10	212267	BACKUP RING	PEEK	2	X	X
1	11	217525	FLANGE, 1/4" MP, COMPACT REGULATOR	A276 TP 316 (316 SS)	2		
	12	205414	HYDRO SEAL, VENT, COMPACT REGULATOR	TUNGSTEN CARBIDE /NICKEL	2	X	
	13	18100-014K1	O-RING	HNBR	2	X	X
	14	18100-613K1	O-RING	HNBR	2	X	X
	15	18100-013K1	O-RING	HNBR	1	X	X
	16	205415	BACKUP RING	PEEK	2	X	X
	17	18221-010G	SHCS #4-40 UNC X 3/8" LG NYLON	F593 Gr 2 COND A (316 SS)/NYLON	4	X	X
	18	18100-001K1	O-RING	HNBR	2	X	X
	19	205416	BACKUP RING	PEEK	4	X	X
	20	216348	ADJUSTMENT SCREW, 1/2"-13 UNC	TP 316	1		
	21	216349	JAM - NUT, HEX, 1/2"-13 UNC	TP 316	1		
	22	216350	PIPE PLUG, 3/8" NPT, VENTED	TP 316	1		
	23	216547	PANEL BRACKET	A240	1		

 <b>Gilmore</b> <small>a pro/ery company</small>		<b>ENGINEERING</b>	
SIZE <b>B</b>	DWG NO  <div style="text-align: right; font-size: 2em; font-weight: bold;">29167</div>		REV  <div style="text-align: center; font-size: 2em; font-weight: bold;">B</div>
SCALE      1:2		<b>SolidWorks</b>	SHEET   2   OF   4



**DETAIL B**  
(REFER TO SHEET 4 FOR POSITIONS)

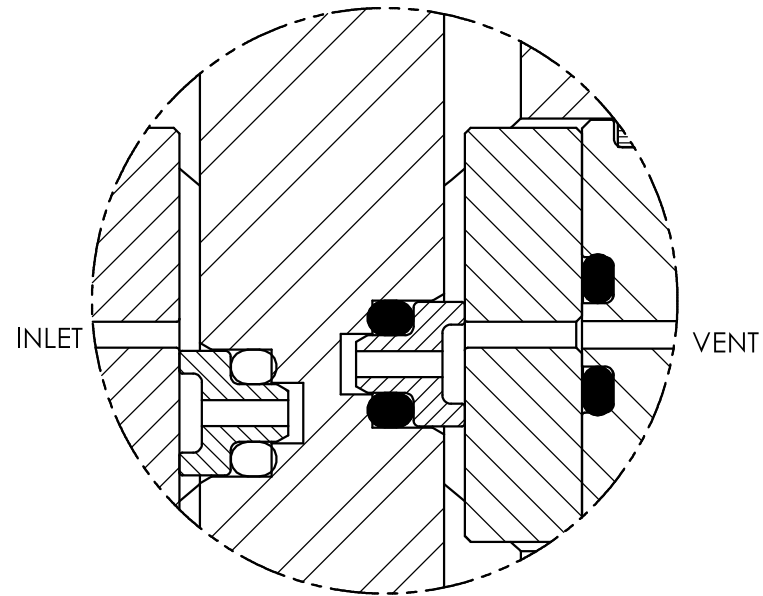


**SECTION C-C**

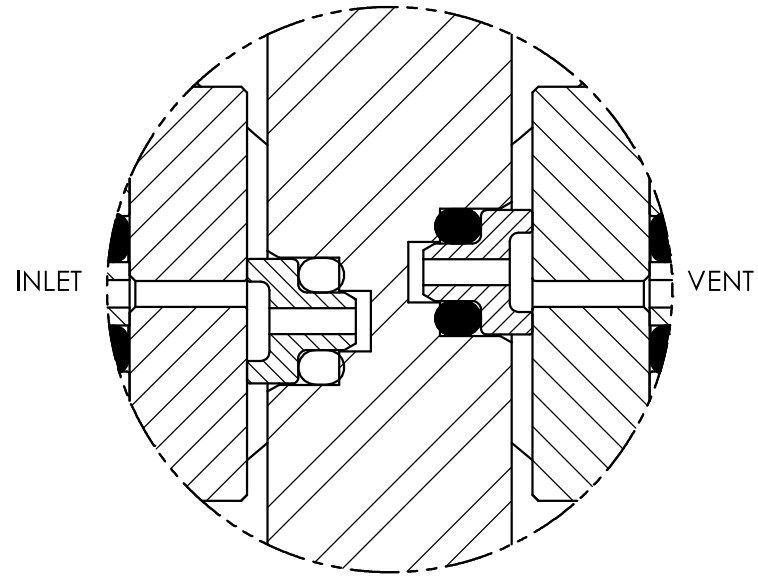
 <b>Gilmore</b> <small>a pro/erv company</small> <b>ENGINEERING</b>			
SIZE <b>B</b>	DWG NO <b>29167</b>		REV <b>B</b>
SCALE 1:2	SolidWorks		SHEET 3 OF 4

B

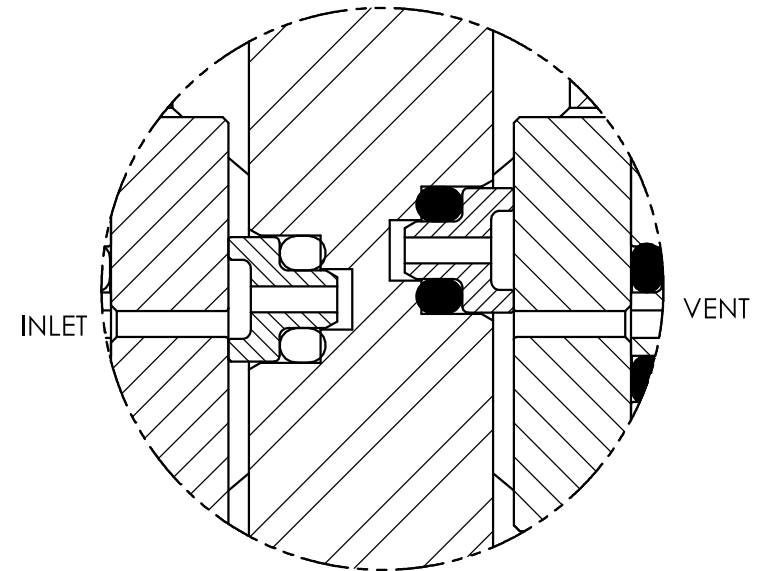
B



DETAIL B  
OPEN



DETAIL B  
CLOSED



DETAIL B  
VENT

A

A

 <b>Gilmore</b> <small>a pro/erv company</small>				<b>ENGINEERING</b>	
SIZE <b>B</b>	DWG NO <b>29167</b>			REV <b>B</b>	
SCALE	1:2	SolidWorks		SHEET	4 OF 4