

1/4" Shuttle Valve Product Line

REV	DATE	DESCRIPTION	ORIGIN (issued by)	APPROVED
Rev A	11-29-2016	Document No: 120-112916-001	AP	SS

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For more information:

Call (800) 469-8786
America.sales@proserv.com

Proserv
Gilmore Valve Facility
1231 Lumpkin Road
Houston, TX 77043

1/4" Shuttle Valve Product Line



Proserv's line of Gilmore 1/4" Shuttle Valves act as flow logic components that allow the automatic selection of flow from two supply (inlet) ports to be directed through a common function (outlet) port. During normal operation of the shuttle valve, the higher-pressure source from one inlet port moves the shuttle to close off the lower-pressure source from the other inlet port and, in turn, be directed to the outlet port.

Features and Benefits:

- PEEK Disc Seat
- Elgiloy spring
- T316 body material
- Nitronic 60 End Caps, Cage and Shuttle
- Spring biased, unbiased, low interflow and high interflow options.

Figure 1. PN 29005: 1/4" NPT Shuttle Valve, Low interflow

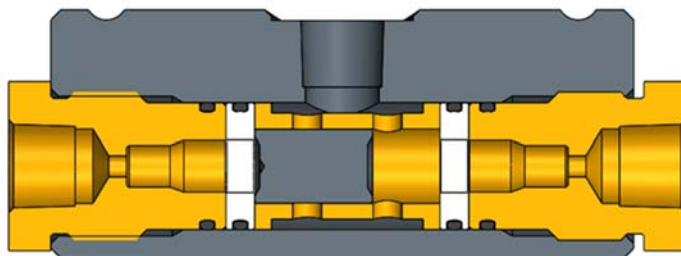
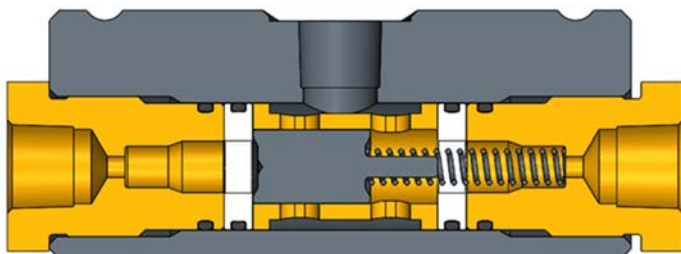


Figure 2. PN 29005-3: Spring Biased 1/4" NPT Shuttle Valve, High Interflow



Proserv has exceeded API 16D requirements by qualifying the new 1/4" Shuttle Valve designs to 2500 cycles.

The new Proserv Gilmore 1/4" Shuttle Valves have an identical footprint to the legacy valves.

As a result of the new Proserv Gilmore 1/4" Shuttle Valve product line, please note that sales of the legacy 1/4" Shuttle Valve part numbers listed below will be discontinued as of November 30, 2017. The new Proserv Gilmore 1/4" Shuttle Valve is now available as a replacement for the legacy 1/4" Shuttle Valves.

Proserv will continue to support discontinued legacy 1/4" Shuttle Valves after they are discontinued:

- Proserv will continue providing repair kits and seal kits in support of discontinued 1/4" Shuttle Valves for a minimum of 3 years. The Proserv 1/4" Shuttle Valves listed below are field repairable.
- Proserv Aftermarket will continue to support discontinued legacy products with factory failure analysis and repair services for a minimum of 3 years.

Table 1. New and Legacy 1/4" Shuttle Valve Part Numbers:

Item	Legacy Description	Legacy Valve PN	Legacy Repair Kit PN	New Valve Description	New Valve PN	New Repair Kit PN
1	Valve, Shuttle, 1/4 NPT, Spring Biased, Low Interflow	25416	25416 RK	Valve, Shuttle, 1/4 NPT, Spring Biased, Low Interflow, Disc Seat	29005-1	29005-1 RK
2	Valve, Shuttle, 1/4 NPT, Spring Biased, Low Interflow, T316	28443	28443 RK	Valve, Shuttle, 1/4 NPT, Spring Biased, Low Interflow, Disc Seat	29005-1	29005-1 RK
3	Valve, Shuttle, 1/4 NPT, Spring Biased, High Interflow	25416-1	25416-1 RK	Valve, Shuttle, 1/4 NPT, Spring Biased, Hi Interflow, Disc Seat	29005-3	29005-3 RK
4	Valve, Shuttle, 1/4 NPT, Spring Biased, High Interflow, T316	116518	116519	Valve, Shuttle, 1/4 NPT, Spring Biased, Hi Interflow, Disc Seat	29005-3	29005-3 RK
5	Valve, Shuttle, 1/4 NPT, Low Interflow	22519	22519 RK	Valve, Shuttle, 1/4 NPT, Non Biased, Low Interflow, Disc Seat	29005	29005 RK
6	Valve, Shuttle, 1/4 NPT, Low Interflow, N60	28195	28198 RK	Valve, Shuttle, 1/4 NPT, Low Interflow, Disc Seat	29005	29005 RK
7	Valve, Shuttle, 1/4 NPT, Low Interflow, T316	28440	28440 RK	Valve, Shuttle, 1/4 NPT, Low Interflow, Disc Seat	29005	29005 RK
8	Valve, Shuttle, 1/4 NPT, High Interflow	22760	22760 RK	Valve, Shuttle, 1/4 NPT, Hi Interflow, Disc Seat	29005-2	29005-2 RK
9	Valve, Shuttle, 1/4 NPT, High Interflow, T316	28438	28438 RK	Valve, Shuttle, 1/4 NPT, Hi Interflow, Disc Seat	29005-2	29005-2 RK
10	Valve, Shuttle, 3/8 NPT, Low Interflow	25409	25409 RK	Valve, Shuttle, 3/8 NPT, Low Interflow, Disc Seat	29007	29007 RK
11	Valve, Shuttle, 1/4 SAE, Spring Biased, Low Interflow, T316	109202	109209	Valve, Shuttle, 1/4 SAE, Spring Biased, Low Interflow, Disc Seat	29006-1	29006-1 RK

Item	Legacy Description	Legacy Valve PN	Legacy Repair Kit PN	New Valve Description	New Valve PN	New Repair Kit PN
12	Valve, Shuttle, 1/4 SAE, Low Interflow	25418	25418 RK	Valve, Shuttle, 1/4 SAE, Low Interflow, Disc Seat	29006	29006 RK
13	Valve, Shuttle, 1/4 SAE, Low Interflow	22627	22627 RK	Valve, Shuttle, 1/4 SAE, Low Interflow, Disc Seat	29006	29006 RK
14	Valve, Shuttle, 1/4 SAE, High Interflow	25811	25811 RK	Valve, Shuttle, 1/4 SAE, Hi Interflow, Disc Seat	29006-2	29006-2 RK
15	Valve, Shuttle, 1/4 SAE, High Interflow, T316	097953	097958	Valve, Shuttle, 1/4 SAE, Hi Interflow, Disc Seat	29006-2	29006-2 RK
16	Valve, Shuttle, 1/4 SAE, High Interflow, N60	28196	28196 RK	Valve, Shuttle, 1/4 SAE, Hi Interflow, Disc Seat	29006-2	29006-2 RK
17	Valve, Shuttle, 3/8 SAE, Spring Biased, Low Interflow, T316	28292	28292 RK	Valve, Shuttle, 3/8 SAE, Spring Biased, Low Interflow, Disc Seat	29008-1	29008-1 RK
18	Valve, Shuttle, 3/8 SAE, Low Interflow	25417	25417 RK	Valve, Shuttle, 3/8 SAE, Low Interflow, Disc Seat	29008	29008 RK

The following legacy 1/4" Shuttle Valves will be discontinued November 30, 2017. If a new 1/4" Shuttle Valve part number is not listed for a specific legacy part number, please contact Proserv Customer Service to request a quotation for a new part number.

Table 2. Legacy Shuttle Valve Part Numbers

Item	Legacy Description	Legacy Valve PN	Legacy Repair Kit PN	New Valve Description	New Valve PN	New Repair Kit PN
1	Valve, Shuttle, 1/4 BSPP, Spring Biased, Low Interflow	25416-2	25416-2 RK	N/A	N/A	N/A
2	Valve, Shuttle, Stack, 1/4 NPT, Spring Biased, Low Interflow	109207	109208	N/A	N/A	N/A
3	Valve, Shuttle, Stack, 3/8 SAE, Low Interflow, N60	28196-1	28196-1 RK	N/A	N/A	N/A
4	Valve, Shuttle, 1/4 BSPP, Spring Biased, Low Interflow, N60	097954	097959	N/A	N/A	N/A

Proserv will continue supporting these legacy valves through repair kits, seal kits and aftermarket support for a minimum of 3 years.

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29005 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29005 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	CW 11-11-16	APP 11/11/16	DM 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM
Cv = .6 (CALC)
MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

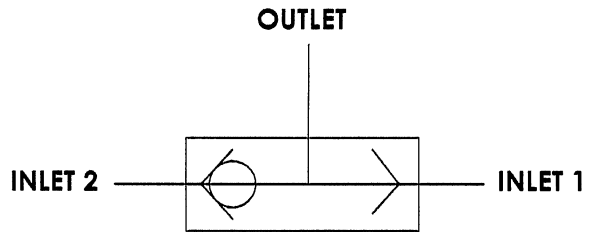
CRACKING PRESSURE <20 PSI

PORTS

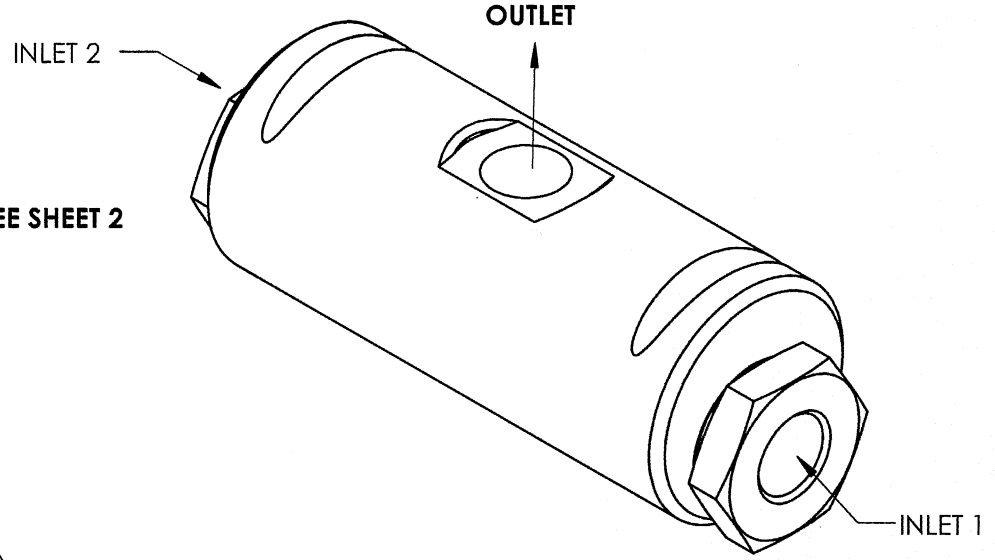
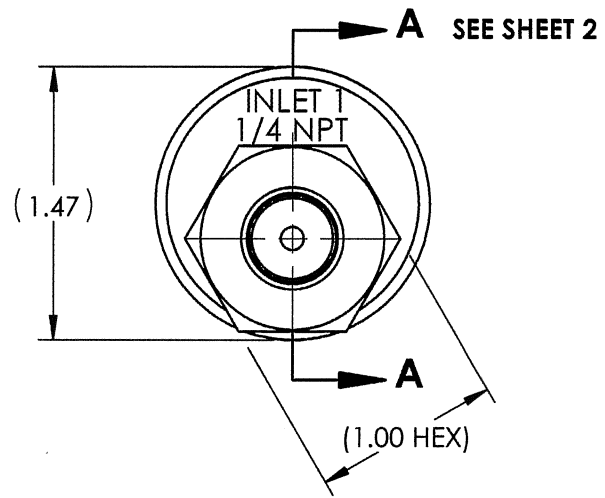
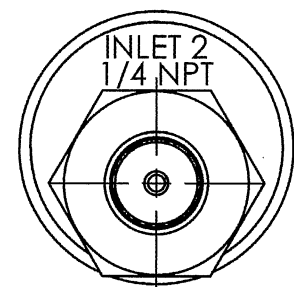
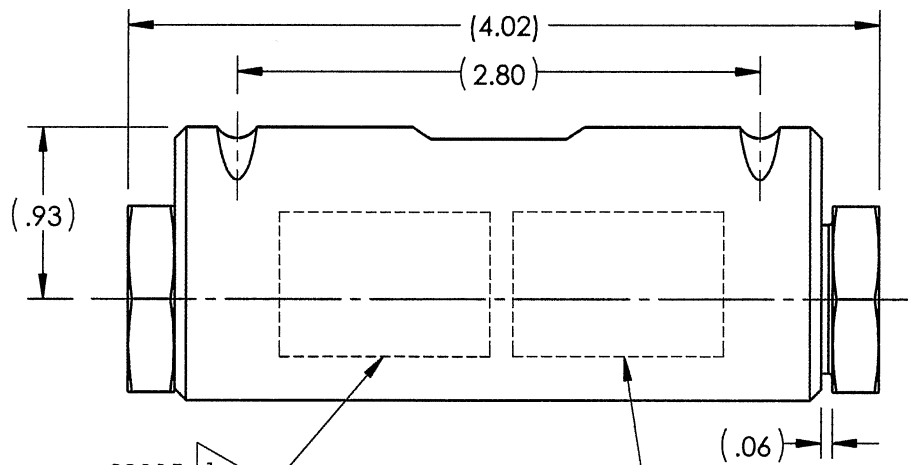
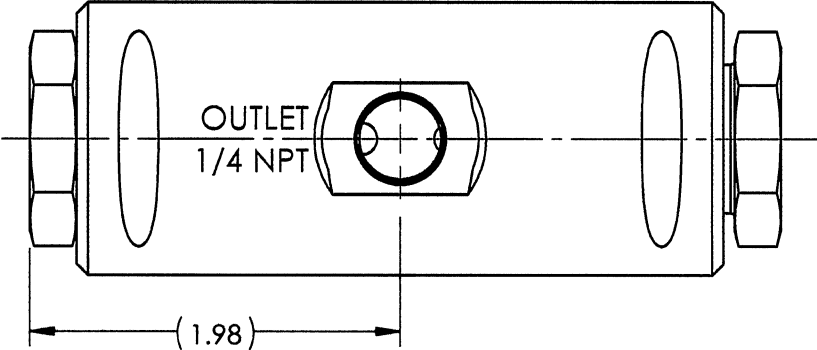
INLETS: 1/4" NPT
OUTLET: 1/4" NPT

GENERAL

APPROX WEIGHT: 1.6 LBS
TEMPERATURE: 32°F TO 150°F
FIELD SERVICEABLE




SCHEMATIC

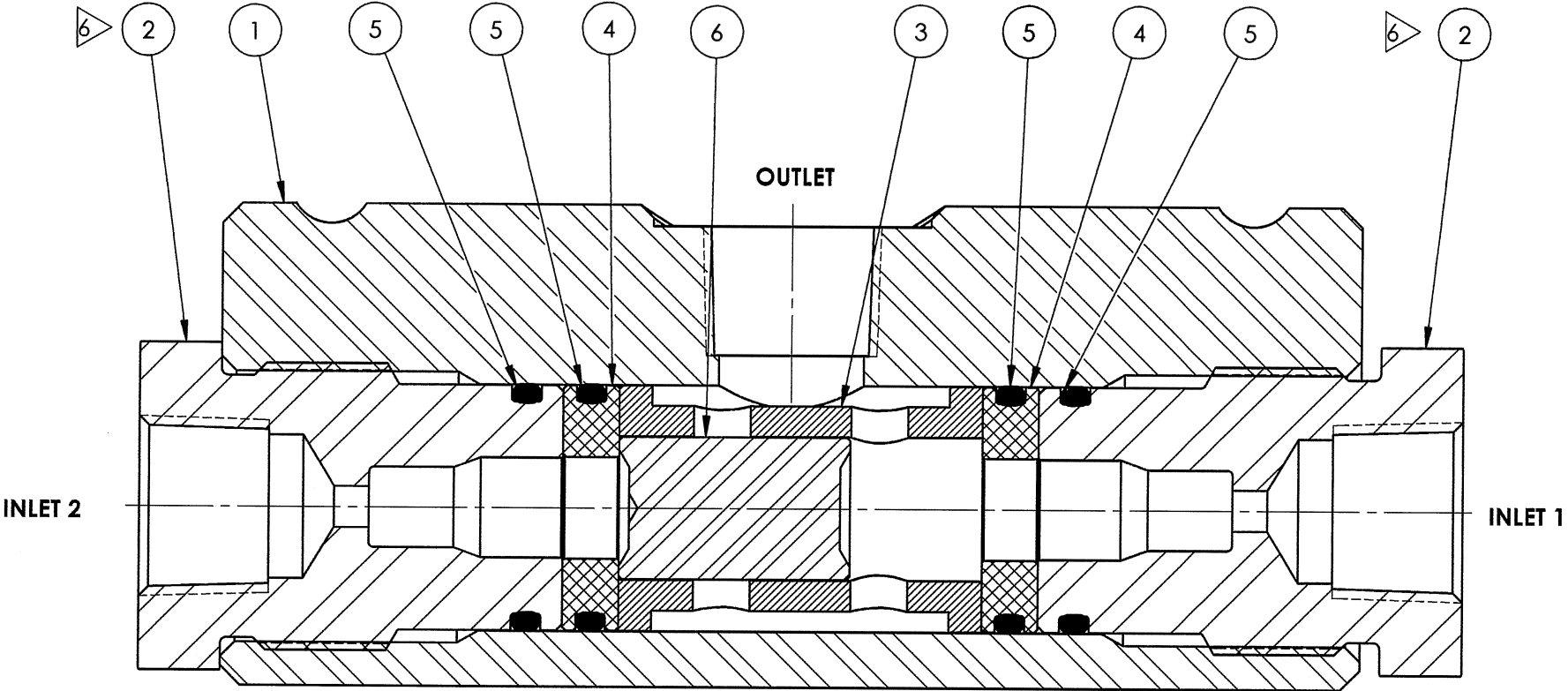


29005
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED


MARK WITH LOGO
AND COMPANY
INFORMATION

MATERIAL: SEE PARTS IN BOM		<div>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°</div>	APPROVAL		<div>proserv</div> <div>Gilmore</div>		
CONDITION:			DRAWN BY <div>CW</div>	DATE <div>11-11-16</div>	<div>VALVE, SHUTTLE, IN-LINE, 1/4" NPT IN, 1/4" NPT OUT, LI, 5000 PSI, DISC SEAL</div>		
			CHECKED BY <div>APP</div>	DATE <div>11/11/16</div>			
			ENGINEER <div>DM</div>	DATE <div>11/11/16</div>			
TREATMENT:			ERN NUMBER <div>02089</div>	DATE <div>10-13-16</div>			
PROCEDURE NUMBER:	<div>5</div>		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.			SIZE <div>B</div>	DWG NO
					SCALE 1:1	SolidWorks	SHEET 1 OF 2

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	108174	BODY- 1/4" NPT	A276 TP 316	1		
2	108178	END CAP- 1/4" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv 			
SIZE B	DWG NO 29005	REV A	
SCALE 1:1	SolidWorks	SHEET 2 OF 2	

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29005-1 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29005-1 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190
FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	CMP 11-11-16	APP 11/11/16	DM 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM

Cv = .6 (CALC)

MINIMUM SHUT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 1/4" NPT

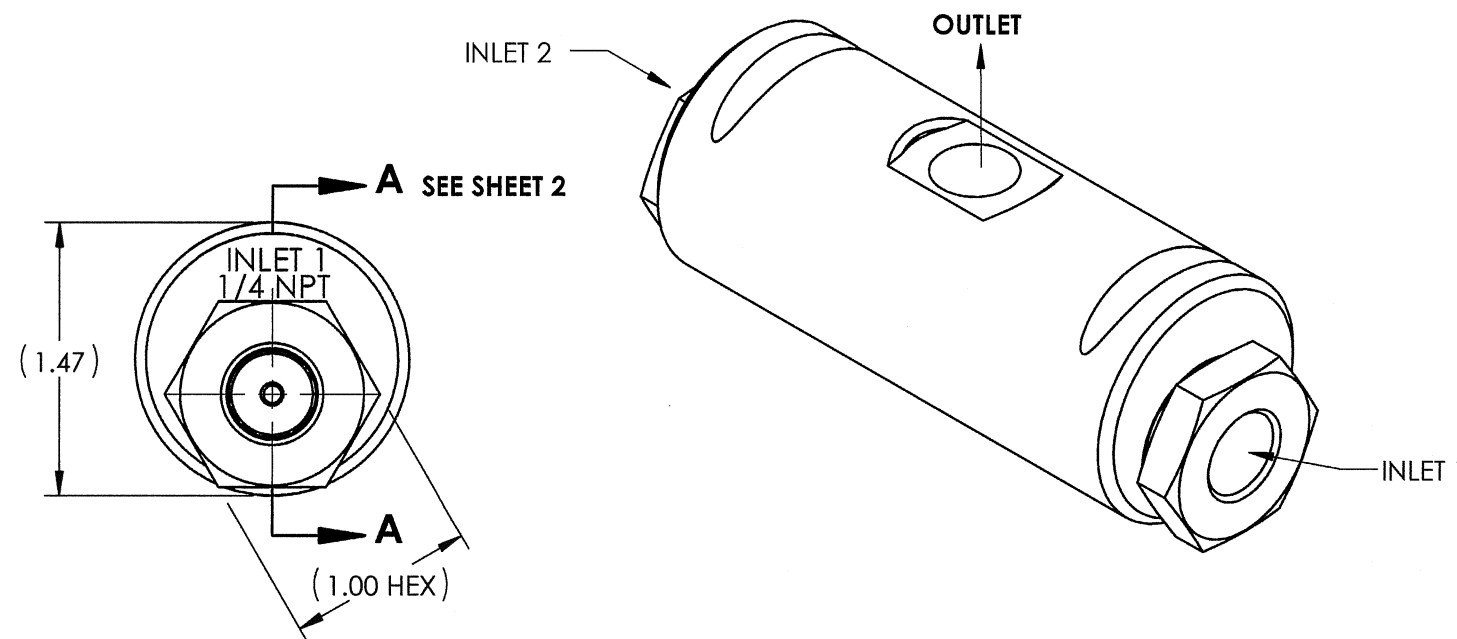
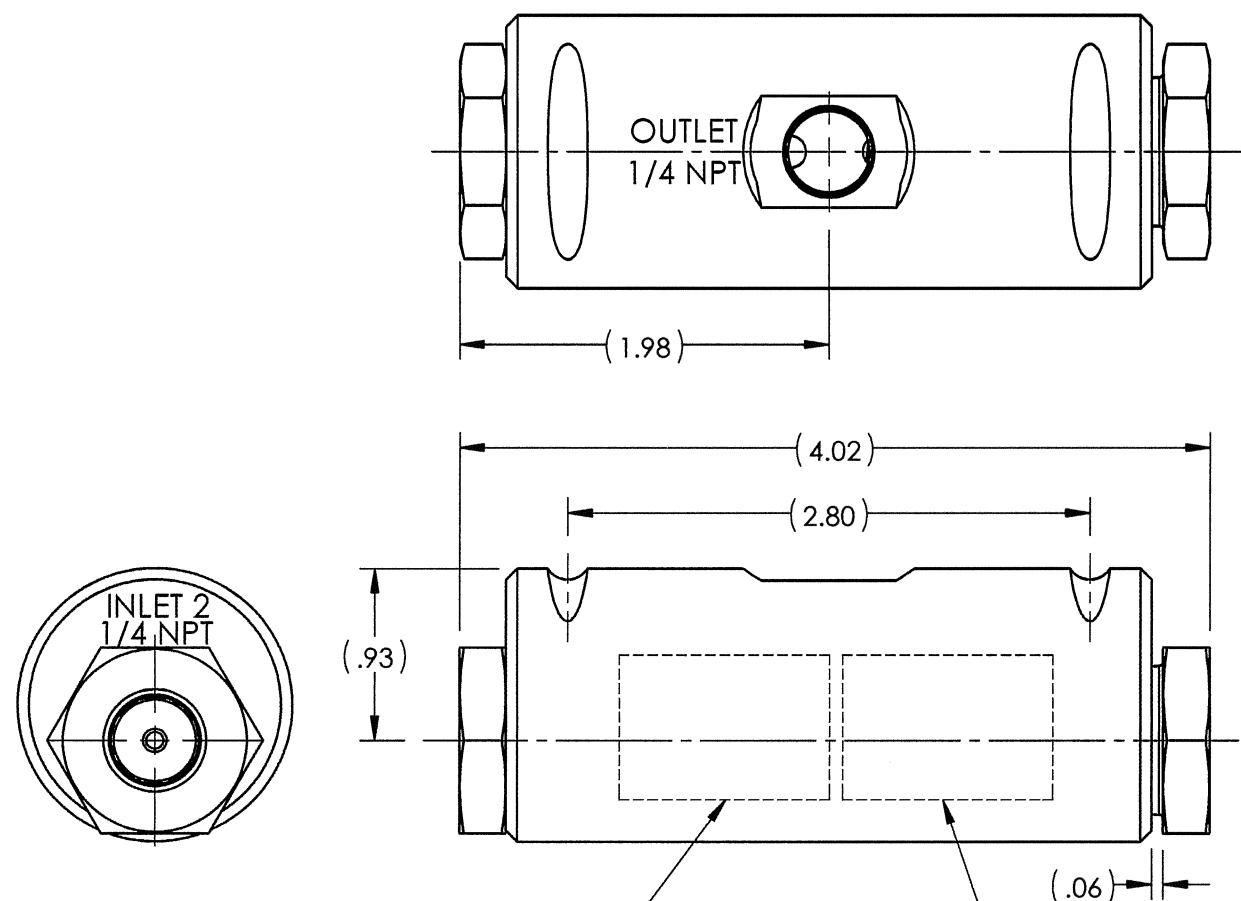
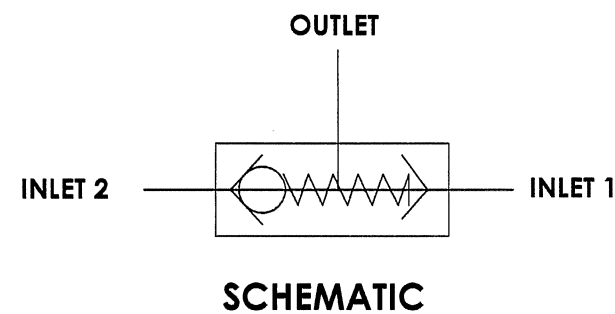
OUTLET: 1/4" NPT

GENERAL

APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



29005-1
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION

MATERIAL:
SEE PARTS IN BOM

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	DATE
CMP	11-11-16
CHECKED BY	DATE
APP	11/11/16
ENGINEER	DATE
DM	11/11/16
ERN NUMBER	DATE
02089	10-14-16

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

proserv 

**VALVE, SHUTTLE, IN-LINE, 1/4" NPT IN,
1/4" NPT OUT, LI, 5000 PSI, DISC SEAL
SPRING BIASED**

SIZE	DWG NO	REV
B	29005-1	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

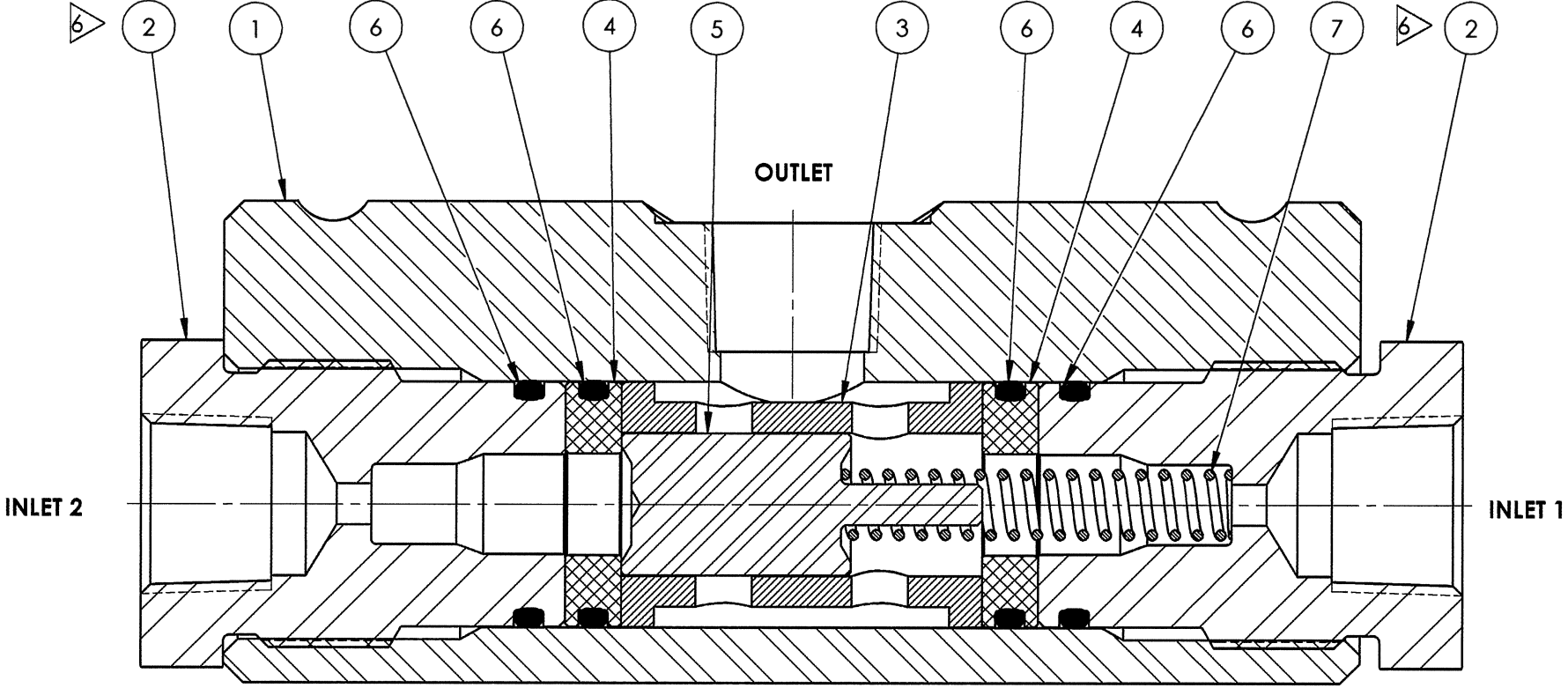
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3


2

1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	108174	BODY- 1/4" NPT	A276 TP 316	1		
2	108178	END CAP- 1/4" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	



SECTION A-A
SCALE 2 : 1

proserv | 

SIZE
B

DWG NO
29005-1

REV
A

SCALE
1:1

SolidWorks

SHEET 2 OF 2

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29005-2 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29005-2 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	CMY 11-11-16	APP 11/11/16	DM 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

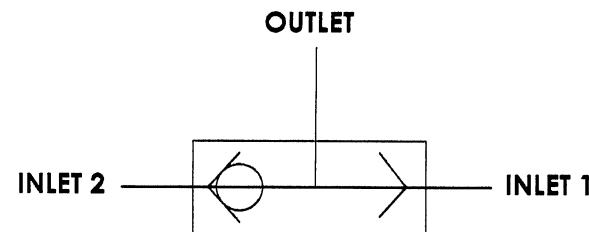
CRACKING PRESSURE <20 PSI

PORTS

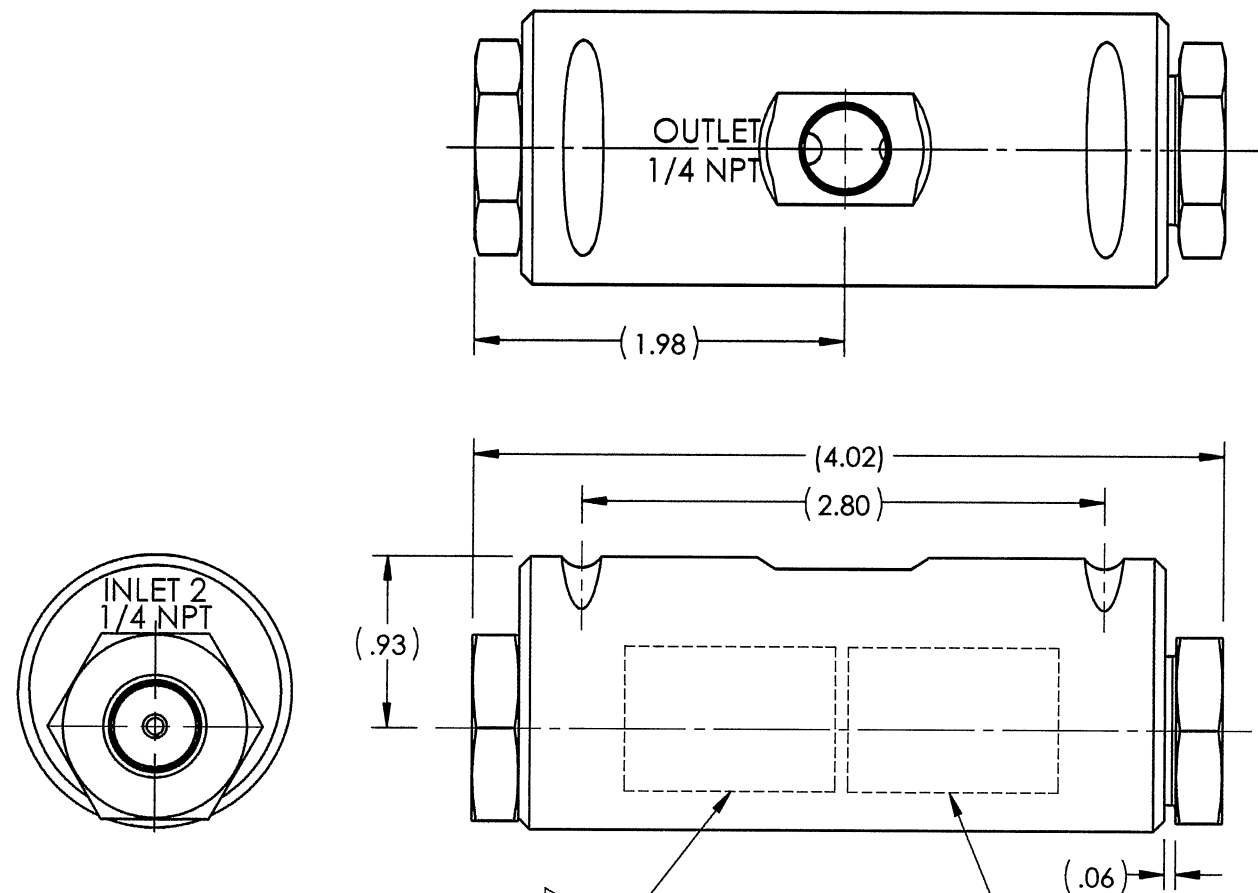
INLETS: 1/4" NPT
OUTLET: 1/4" NPT

GENERAL

APPROX WEIGHT: 1.6 LBS
TEMPERATURE: 32°F TO 150°F
FIELD SERVICEABLE

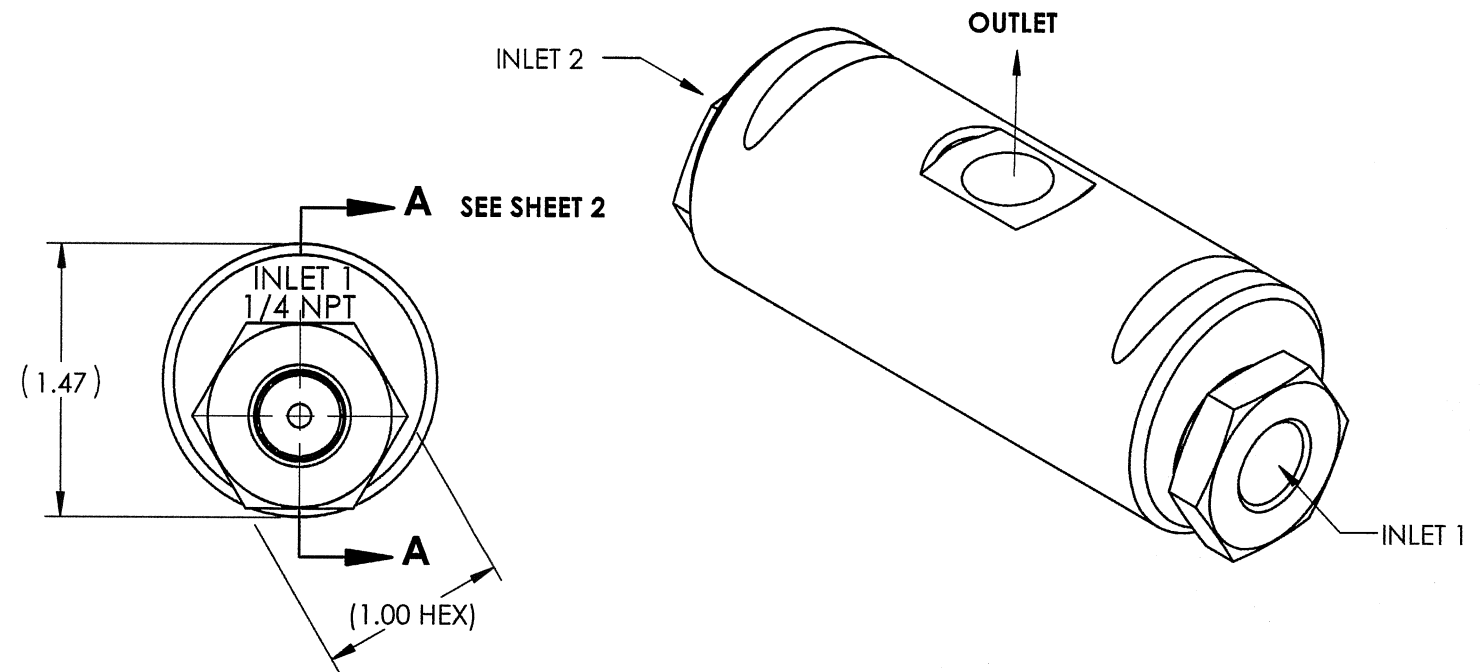


SCHEMATIC



29005-2
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION



PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 1/4" NPT IN,
1/4" NPT OUT, HI, 5000 PSI, DISC SEAL

SIZE	DWG NO	REV
B	29005-2	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL:	DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994. UNLESS OTHERWISE SPECIFIED:	APPROVAL
SEE PARTS IN BOM	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°	DRAWN BY CMY 11-11-16 CHECKED BY APP 11/11/16 ENGINEER DM 11/11/16 ERN NUMBER 02089 10-13-16
CONDITION:		
TREATMENT:		
PROCEDURE NUMBER: 5		

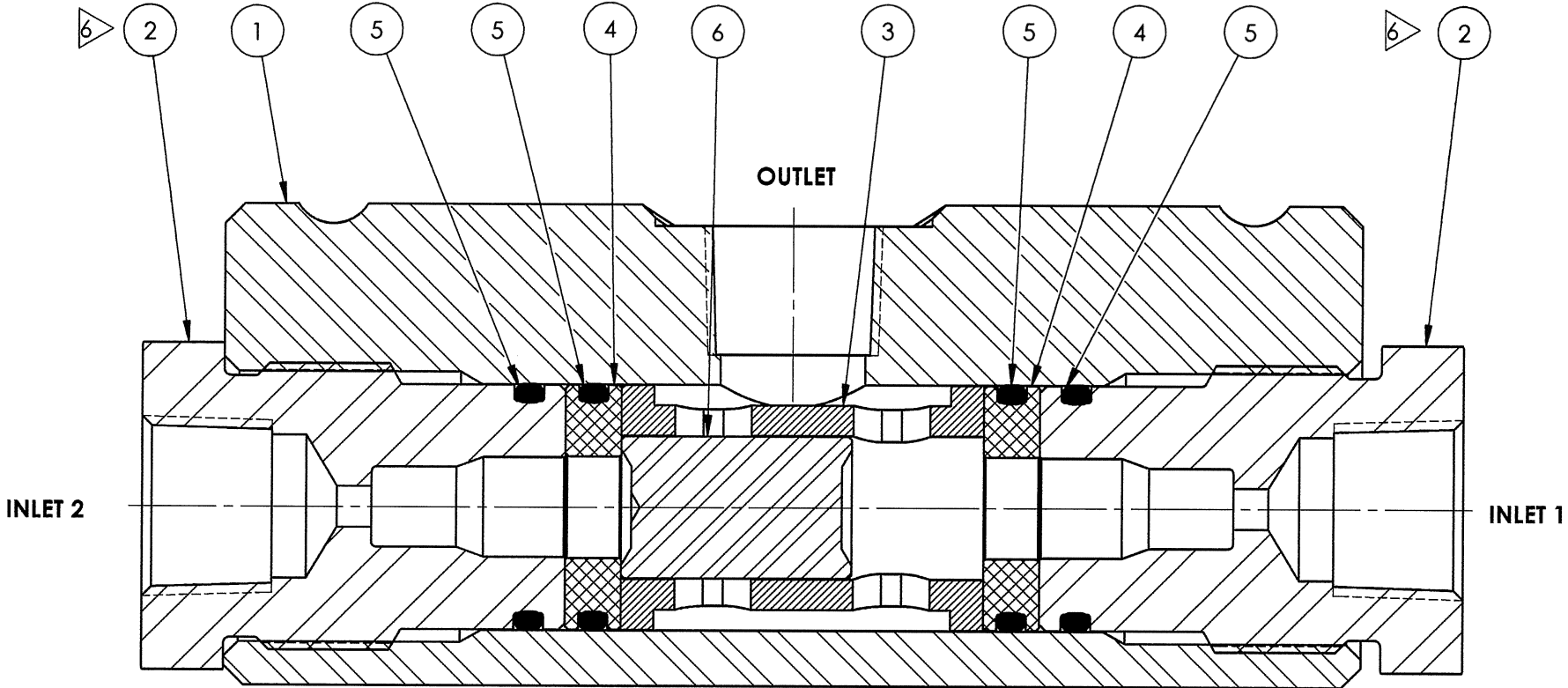
4

3


2

1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	108174	BODY- 1/4" NPT	A276 TP 316	1		
2	108178	END CAP- 1/4" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv | 

SIZE
B

DWG NO
29005-2

REV
A

SCALE
1:1

SolidWorks

SHEET 2 OF 2

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29005-3 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29005-3 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	Cmy 11-11-16	AGP 11/11/16	dm 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 1/4" NPT

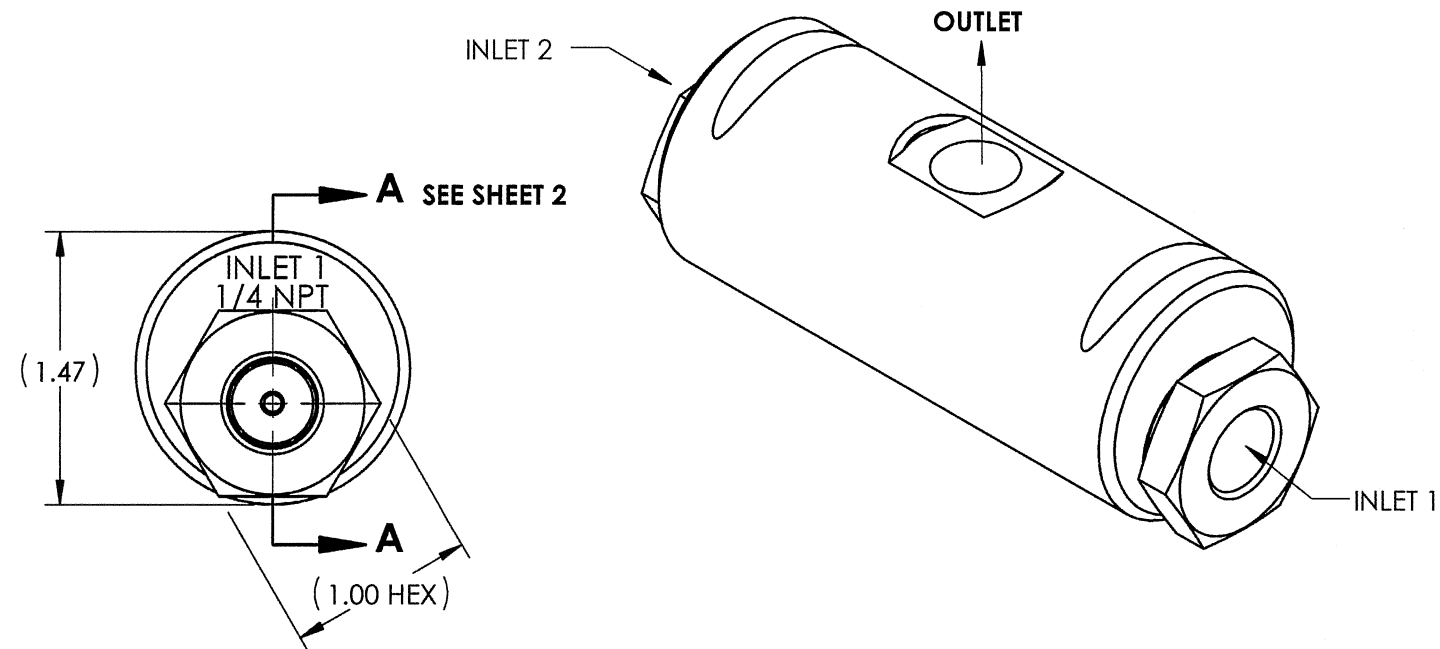
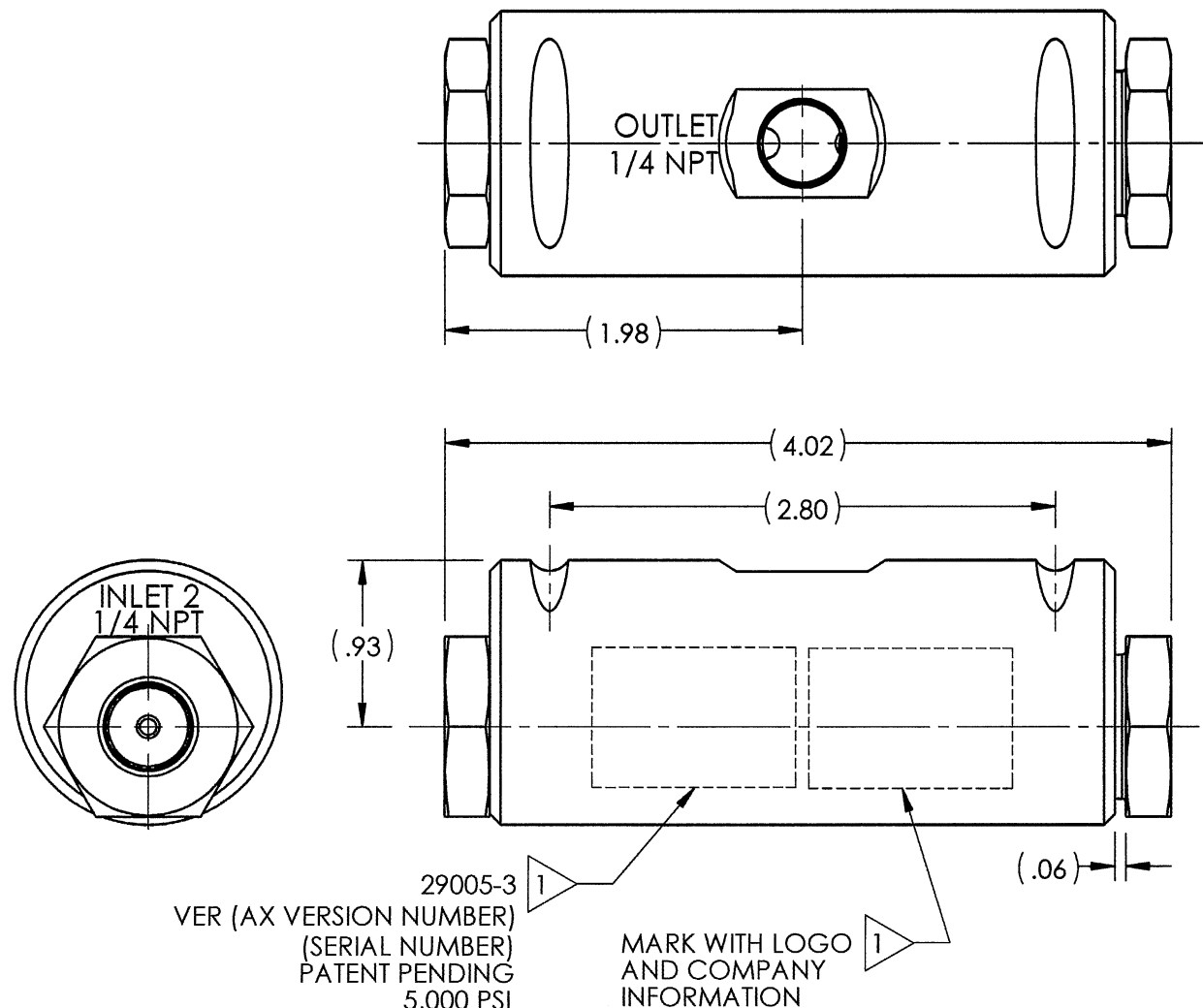
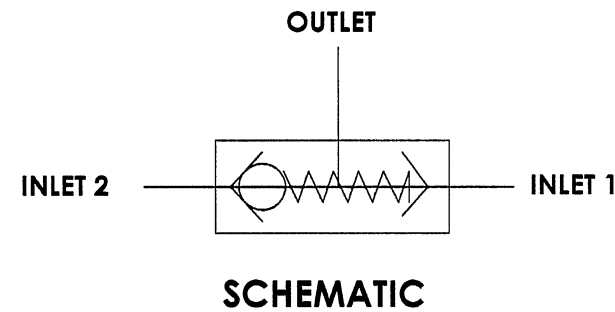
OUTLET: 1/4" NPT

GENERAL

APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



PATENT PENDING

proserv Gilmore

VALVE, SHUTTLE, IN-LINE, 1/4" NPT IN, 1/4" NPT OUT, HI, 5000 PSI, DISC SEAL SPRING BIASED

SIZE	DWG NO	REV
B	29005-3	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994. UNLESS OTHERWISE SPECIFIED:	APPROVAL
CONDITION:	1) TOLERANCES: .X: ±.1 .XX: ±.01 .XXX: ±.005 ANGLES: ±.5°	DRAWN BY Cmy 11-11-16
TREATMENT:	2) SURFACE TEXTURE: 63	CHECKED BY AGP 11/11/16
PROCEDURE NUMBER: 5	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°	ENGINEER dm 11/11/16
		ERN NUMBER 02089 10-14-16
		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.

4

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2

1

4

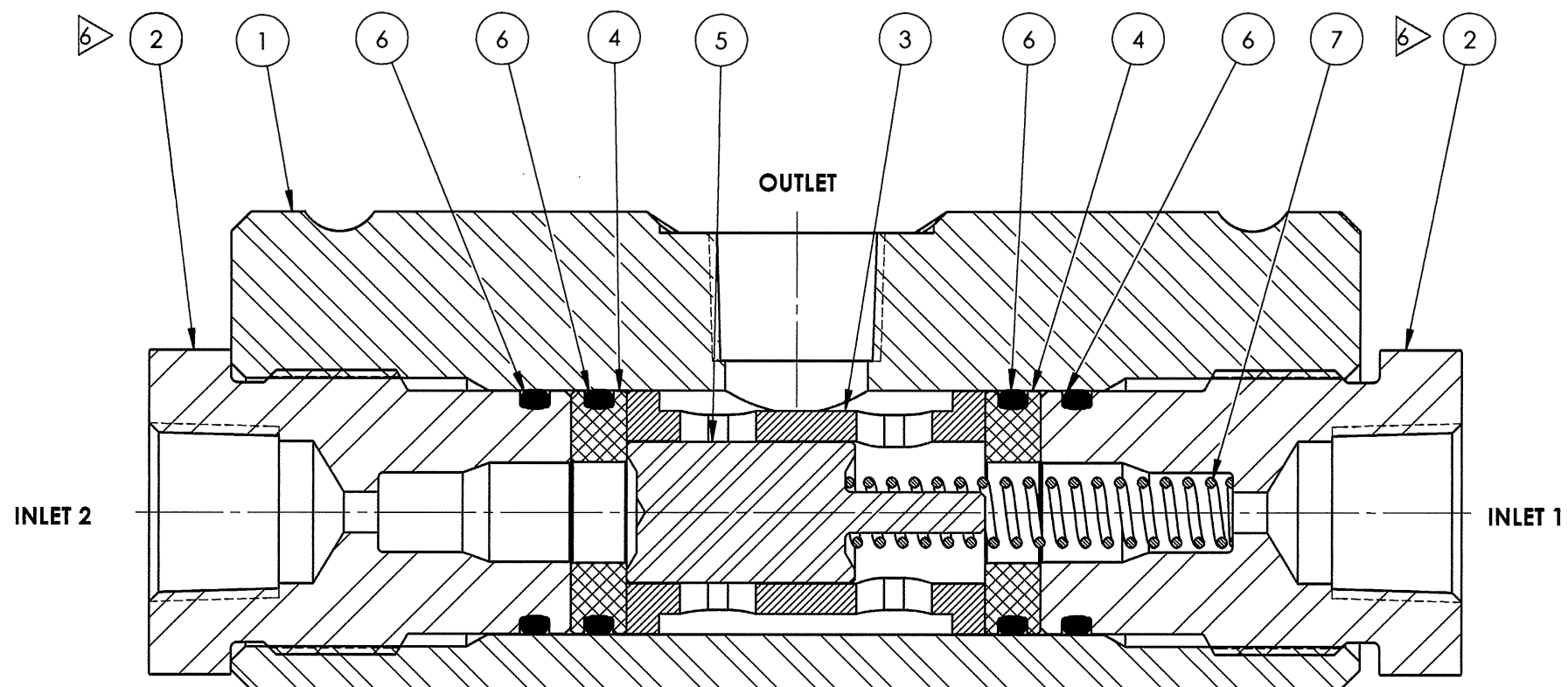
3

2

1

BILL OF MATERIALS

ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	108174	BODY- 1/4" NPT	A276 TP 316	1		
2	108178	END CAP- 1/4" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	

SECTION A-A
SCALE 2:1

proserv | Gilmore

SIZE B	DWG NO 29005-3	REV A
SCALE 1:1	SolidWorks	SHEET 2 OF 2

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29006 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29006 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	com 11-11-16	ADP 11/11/16	Jim 11/16/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM
Cv = .6 (CALC)
MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM
FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

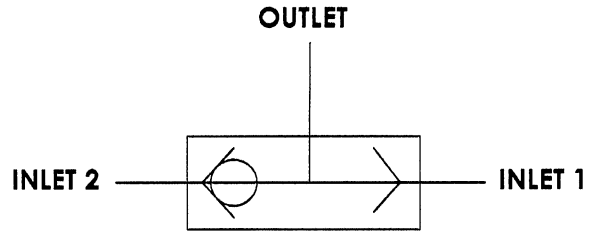
CRACKING PRESSURE <20 PSI

PORTS

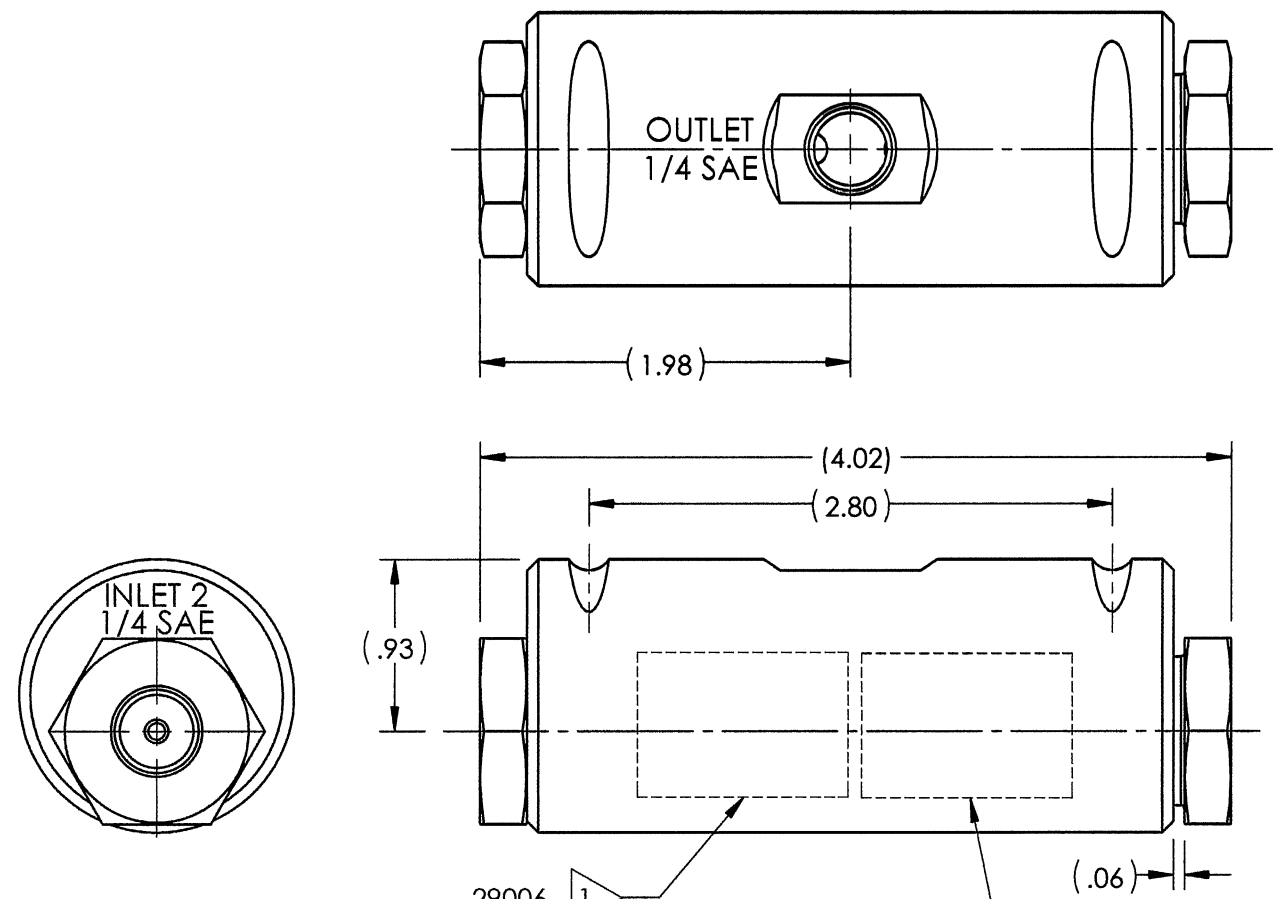
INLETS: 1/4" SAE
OUTLET: 1/4" SAE

GENERAL

APPROX WEIGHT: 1.6 LBS
TEMPERATURE: 32°F TO 150°F
FIELD SERVICEABLE

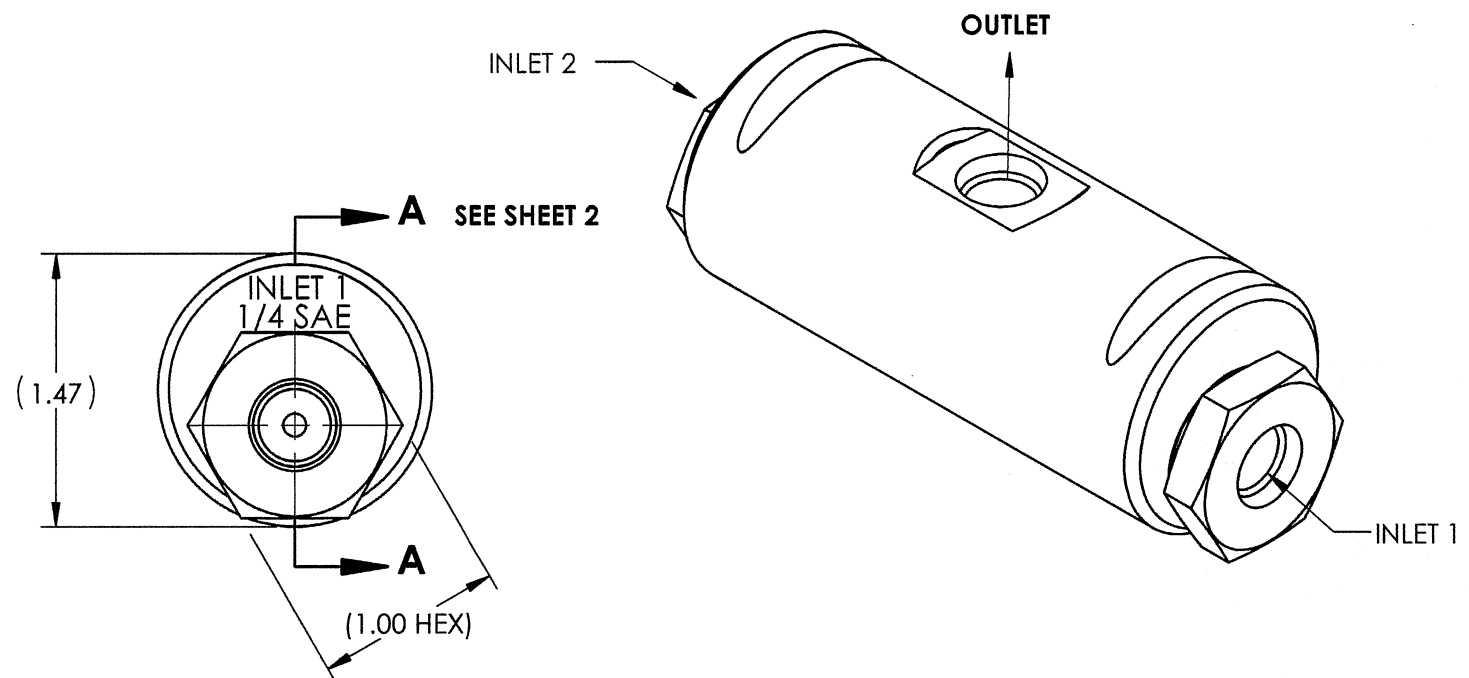


SCHEMATIC



29006
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION



PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 1/4" SAE IN
1/4" SAE OUT, LI, 5000 PSI, DISC SEAL

SIZE	DWG NO	REV
B	29006	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	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 com 11-11-16 CHECKED BY ADP 11/11/16 ENGINEER Jim 11/11/16 ERN NUMBER 02089 10-13-16 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.
CONDITION:		
TREATMENT:		
PROCEDURE NUMBER: 5		

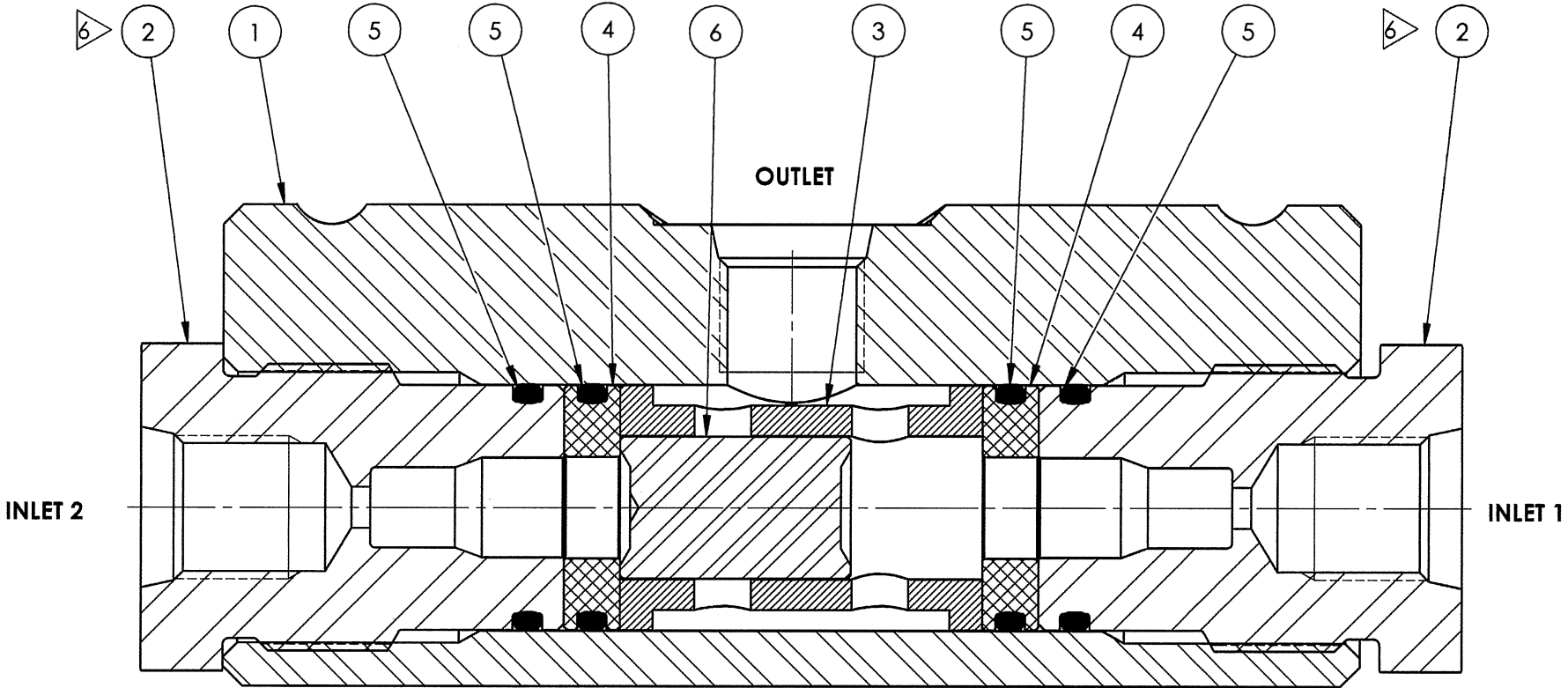
4

3

2


1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145192	BODY- 1/4" SAE	A276 TP 316	1		
2	144713	END CAP- 1/4" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv



SIZE B	DWG NO 29006	REV A
SCALE 1:1	SolidWorks	SHEET 2 OF 2

4

3

2

1

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29006-1 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29006-1 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	cmf 11-11-16	AGP 11/11/16	Bm 11/16/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 1/4" SAE

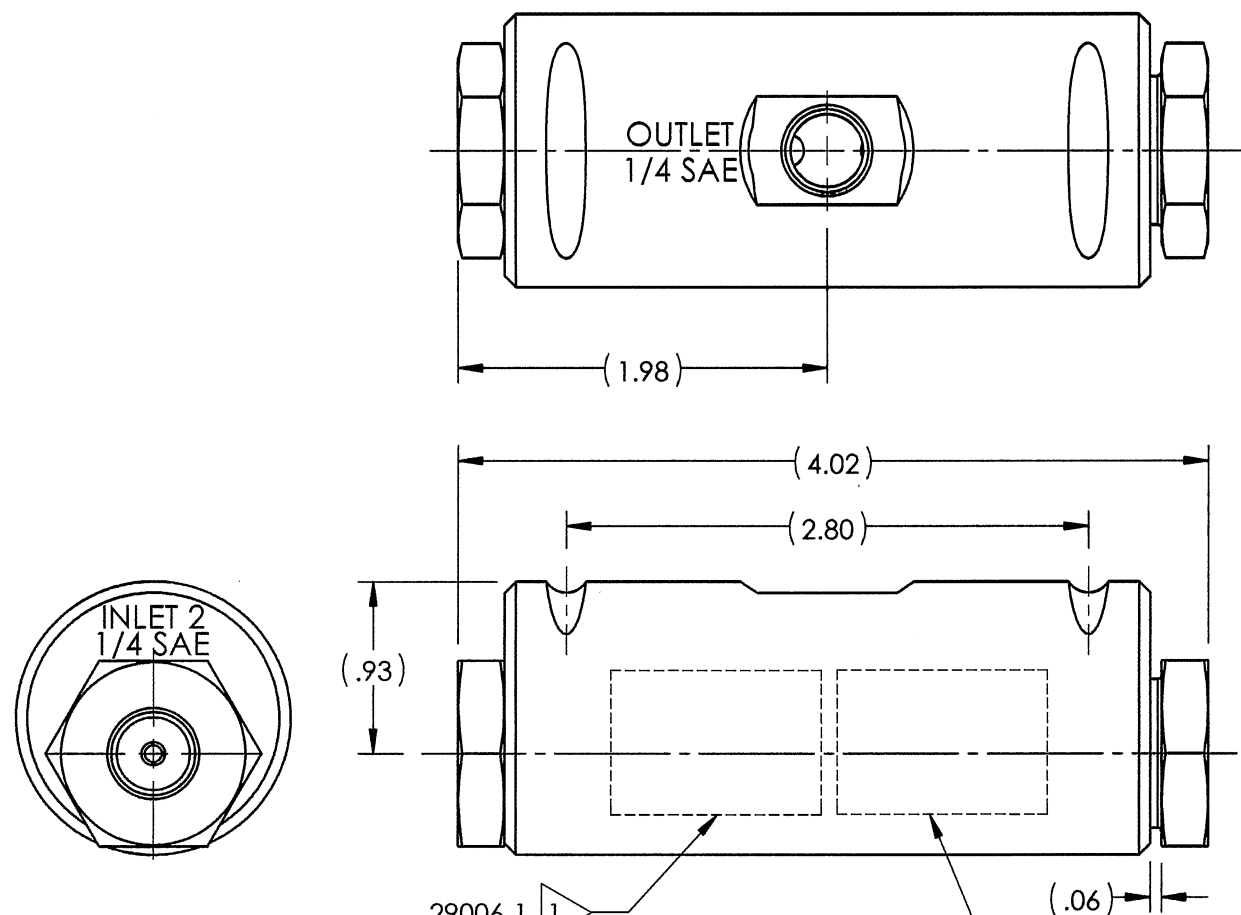
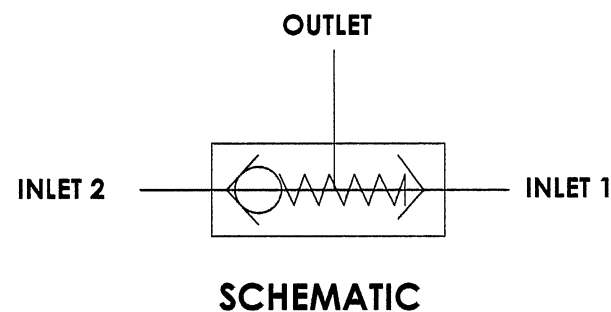
OUTLET: 1/4" SAE

GENERAL

APPROX WEIGHT: 1.6 LBS

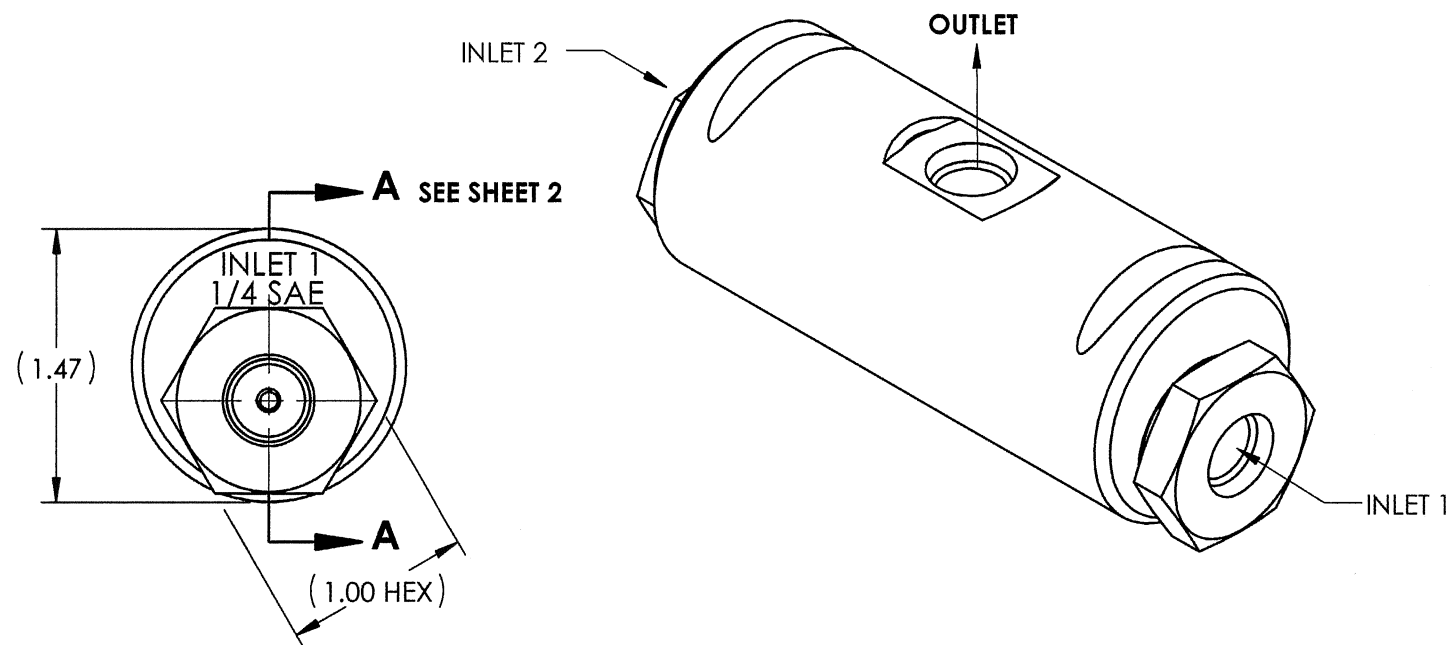
TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



29006-1
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION



PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 1/4" SAE IN,
1/4" SAE OUT, LI, 5000 PSI, DISC SEAL
SPRING BIASED

SIZE	DWG NO	REV
B	29006-1	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL:
SEE PARTS IN BOM

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

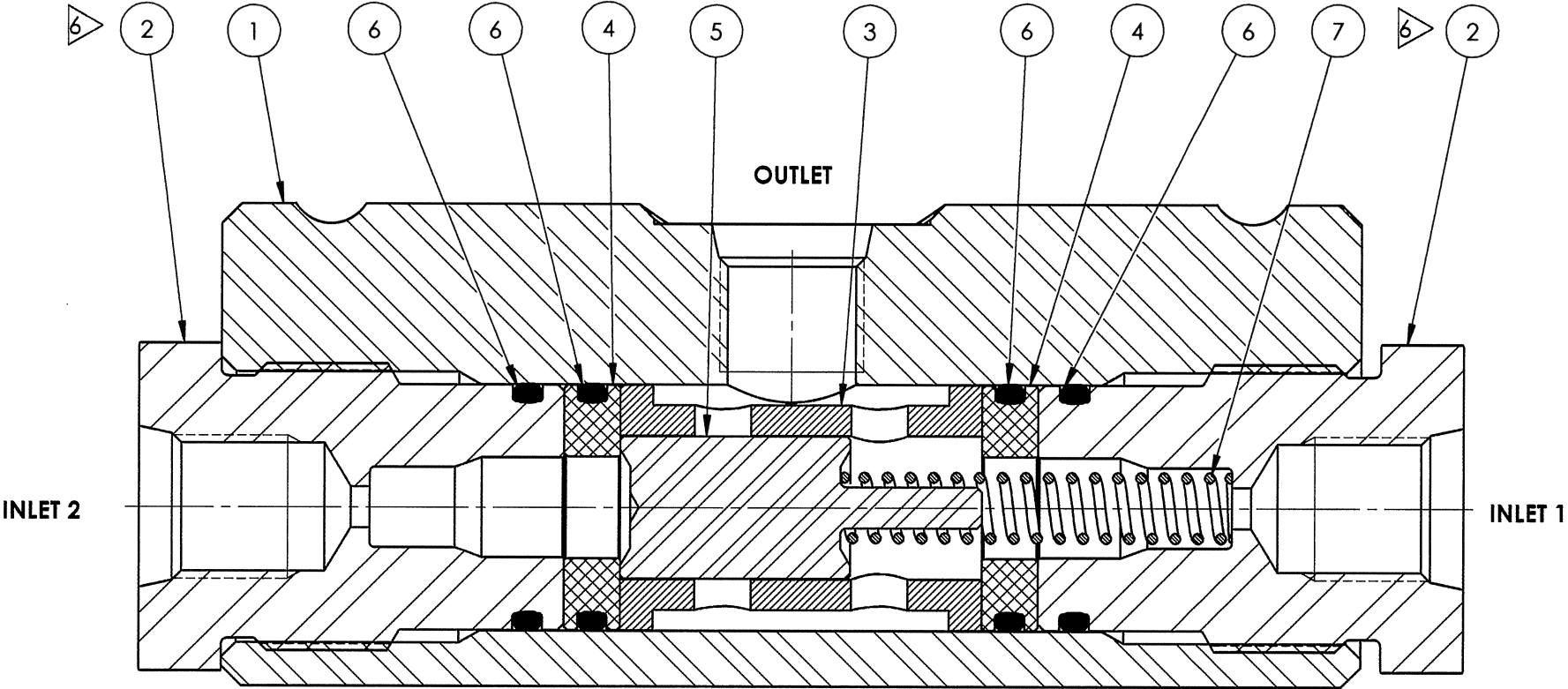
5) INTERNAL RADII SHALL BE .016 MAX

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


APPROVAL	
DRAWN BY	DATE
Cmf	11-11-16
CHECKED BY	DATE
AGP	11/11/16
ENGINEER	DATE
Bm	11/16/16
ERN NUMBER	DATE
02089	10-14-16

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THE WRITTEN PERMISSION OF GILMORE VALVE CO IS PROHIBITED.

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145192	BODY- 1/4" SAE	A276 TP 316	1		
2	144713	END CAP- 1/4" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001 C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	



SECTION A-A
SCALE 2 : 1

proserv 			
SIZE B	DWG NO 29006-1	REV A	
SCALE 1:1	SolidWorks	SHEET 2 OF 2	

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29006-2 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29006-2 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	cmj 11-11-16	ADP 11/11/16	dm 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 1/4" SAE

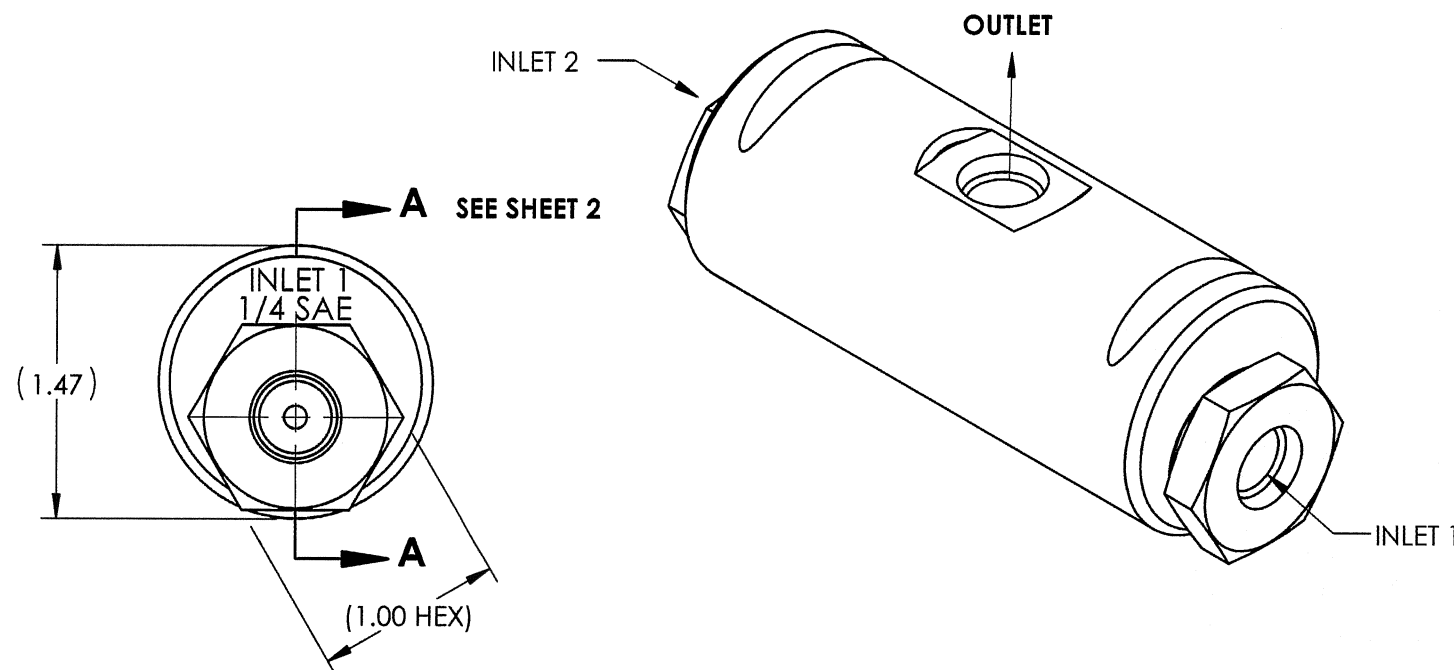
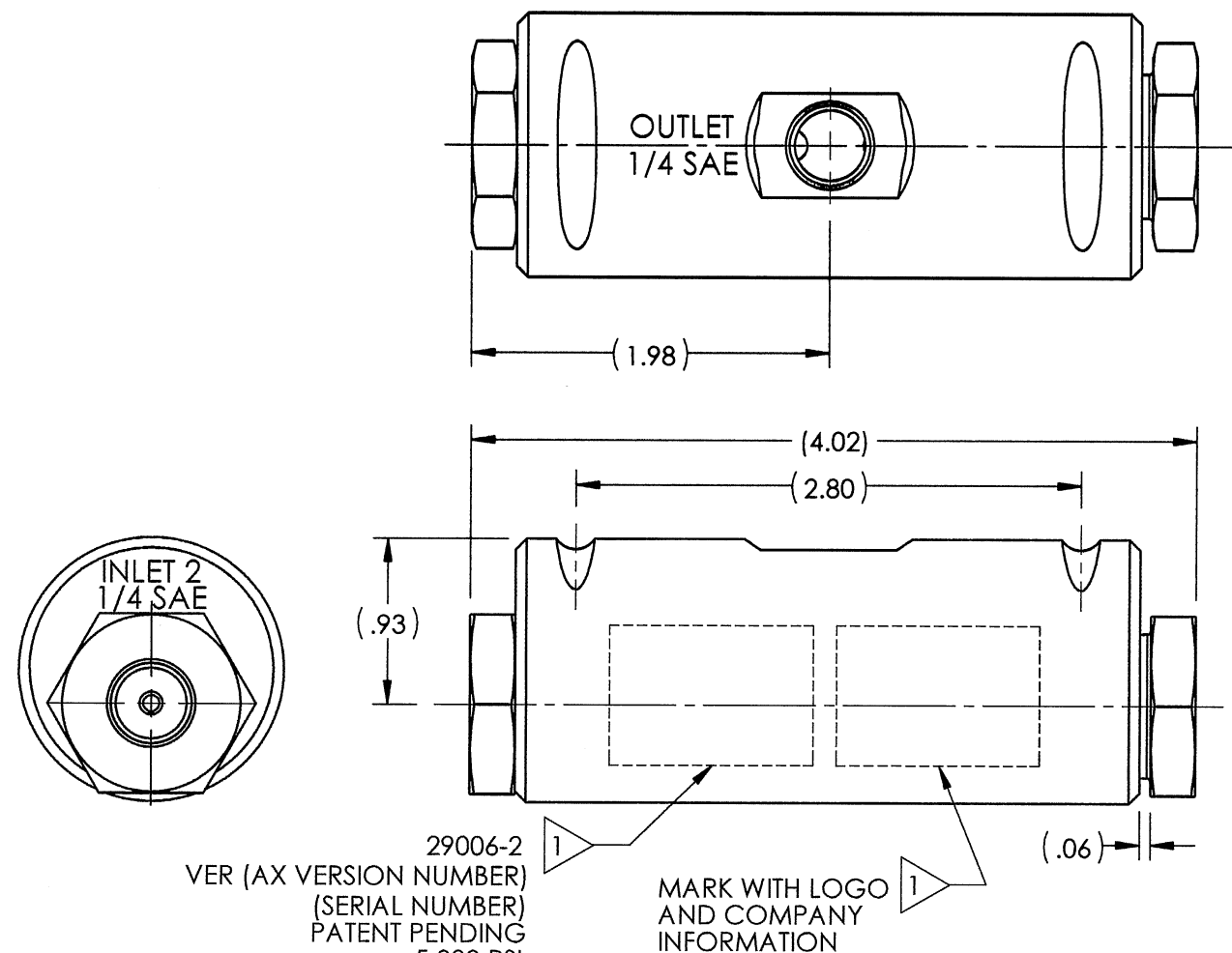
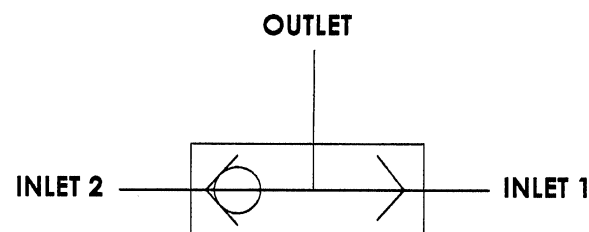
OUTLET: 1/4" SAE

GENERAL

APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 1/4" SAE IN
1/4" SAE OUT, HI, 5000 PSI, DISC
SEAL

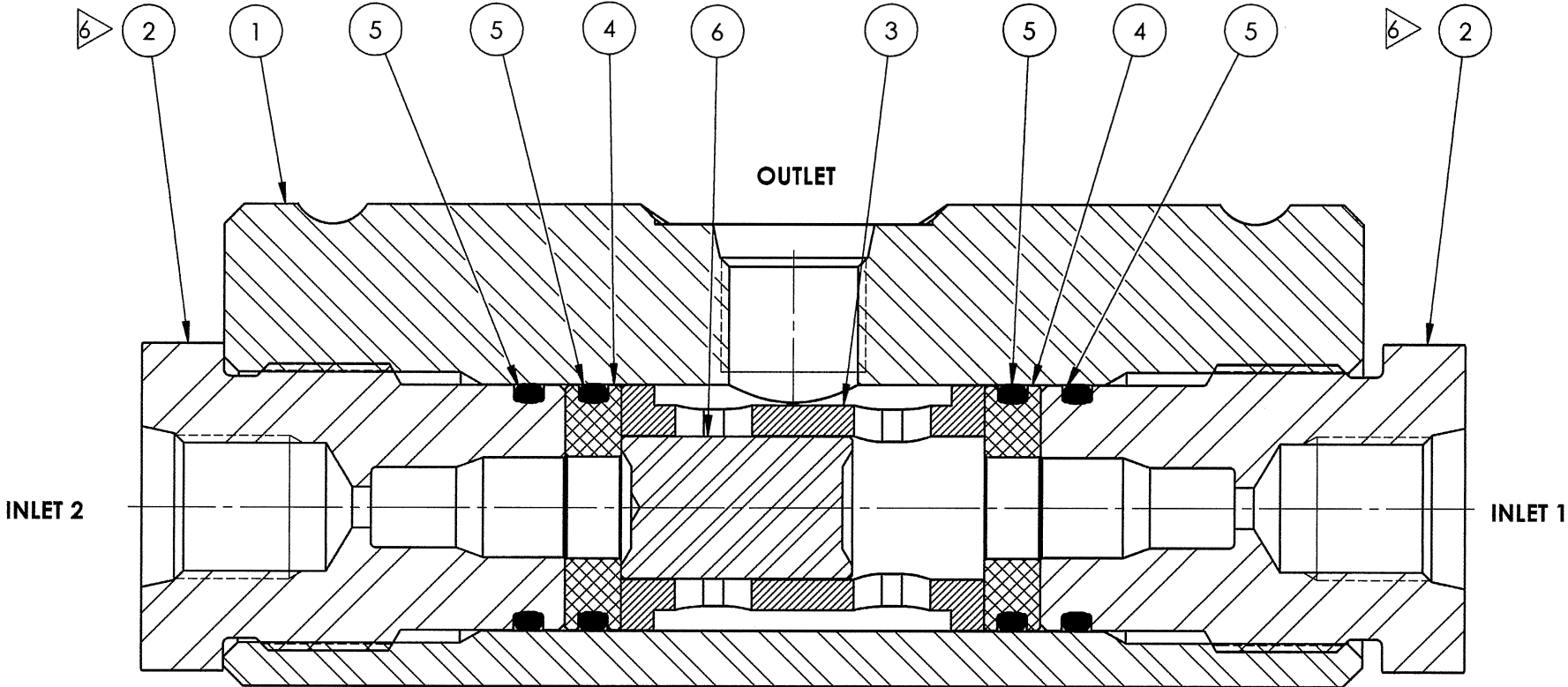
SIZE DWG NO

B 29006-2 A


SCALE 1:1 SolidWorks SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	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 cmj DATE 11-11-16 CHECKED BY ADP DATE 11/11/16 ENGINEER dm DATE 11/11/16 ERN NUMBER 02089 DATE 10-13-16 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.	SIZE DWG NO B 29006-2 SCALE 1:1 SolidWorks SHEET 1 OF 2
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BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145192	BODY- 1/4" SAE	A276 TP 316	1		
2	144713	END CAP- 1/4" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv | 

SIZE
B

DWG NO
29006-2

REV
A

SCALE
1:1

SolidWorks

SHEET 2 OF 2

NOTES:

- 1. MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2. ALL METAL PARTS ARE PASSIVATED.
- 3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29006-3 SK.
- 4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29006-3 RK.
- 5. FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6. TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	cmv 11-11-16	APP 11/11/16	DM 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM
Cv = .6 (CALC)
MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

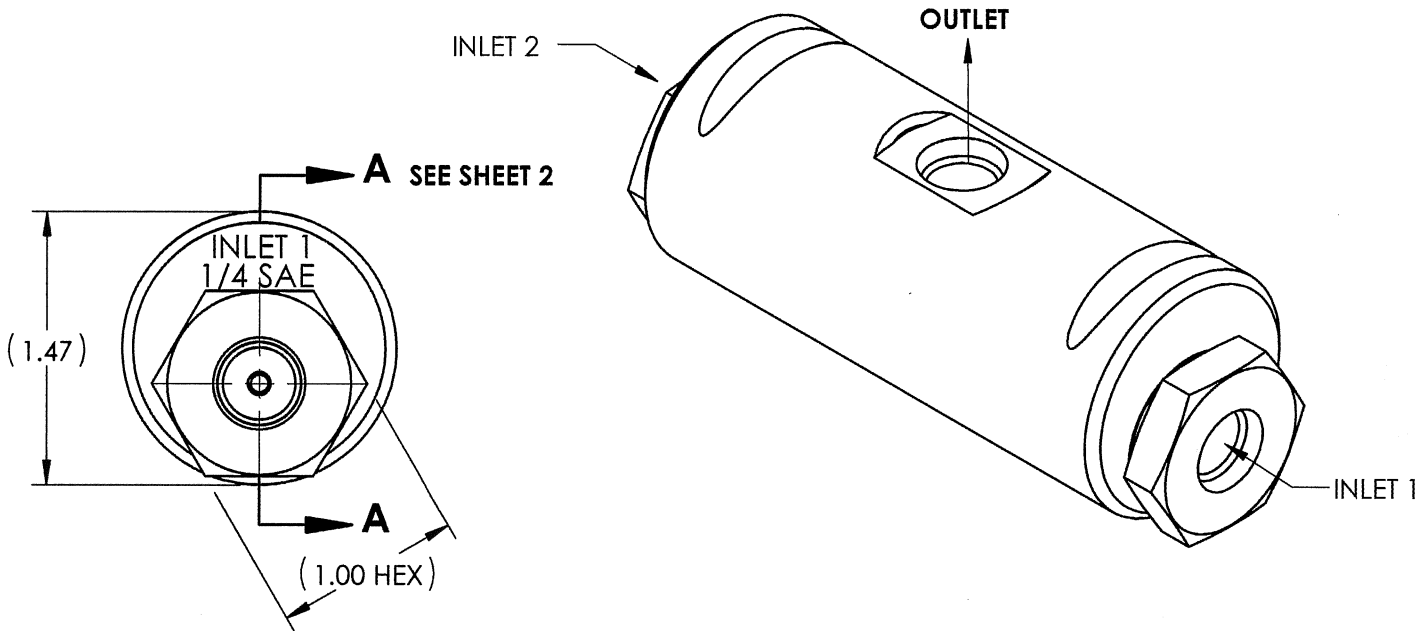
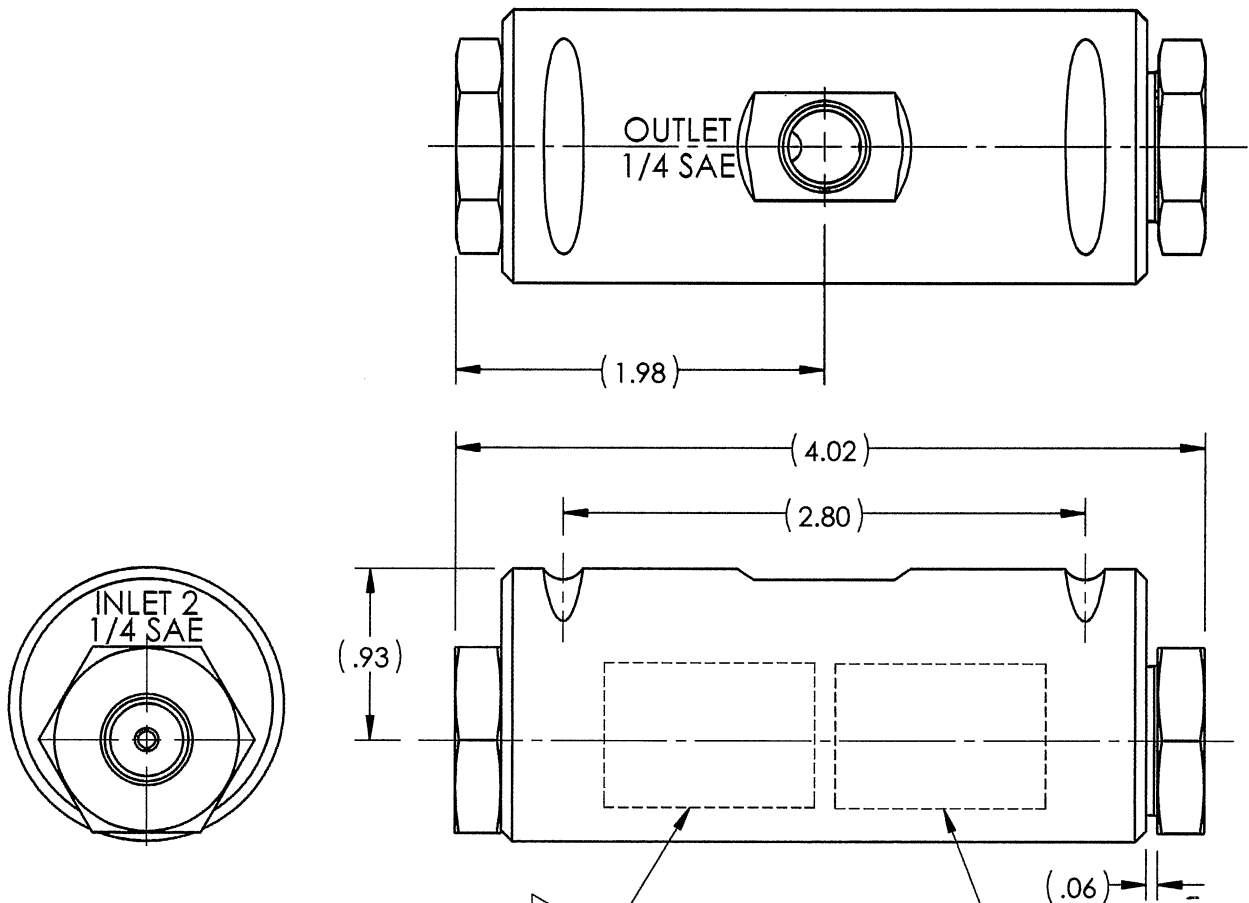
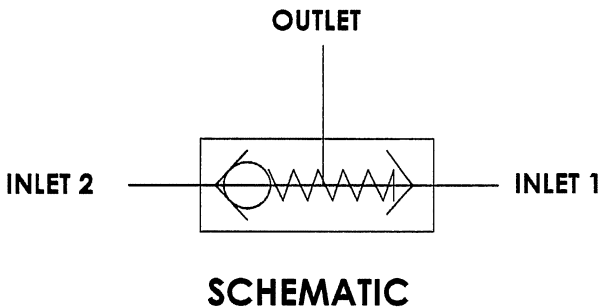
CRACKING PRESSURE <20 PSI

PORTS

INLETS: 1/4" SAE
OUTLET: 1/4" SAE

GENERAL

APPROX WEIGHT: 1.6 LBS
TEMPERATURE: 32°F TO 150°F
FIELD SERVICEABLE



29006-3
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION

PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 1/4" SAE IN,
1/4" SAE OUT, HI, 5000 PSI, DISC SEAL
SPRING BIASED

SIZE	DWG NO	REV
B	29006-3	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	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 cmv 11-11-16 CHECKED BY APP 11/11/16 ENGINEER DM 11/11/16 ERN NUMBER 02089 10-14-16 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.
CONDITION:		
TREATMENT:		
PROCEDURE NUMBER: 5		

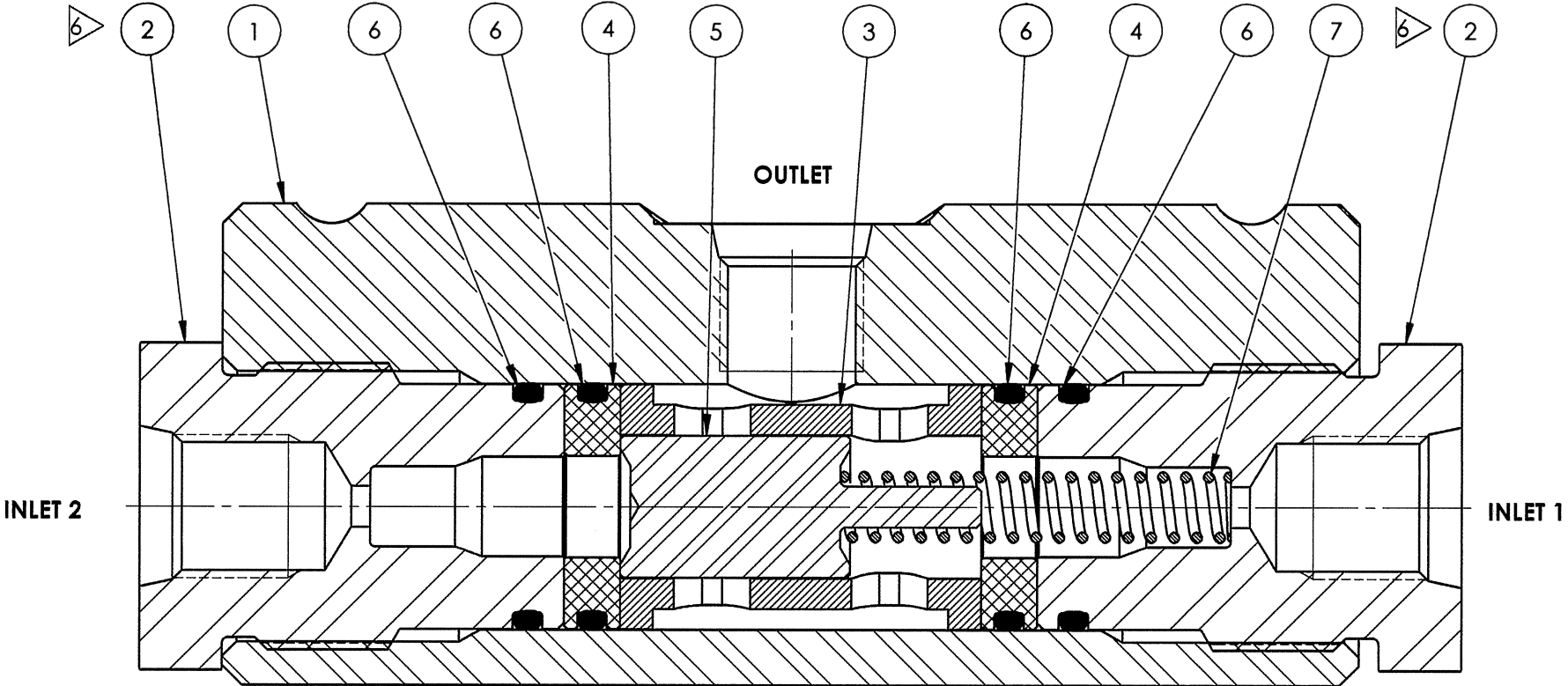
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3

2


1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145192	BODY- 1/4" SAE	A276 TP 316	1		
2	144713	END CAP- 1/4" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	



SECTION A-A
SCALE 2 : 1

proserv



SIZE

DWG NO

REV

B

29006-3

A

SCALE

1:1

SolidWorks

SHEET 2 OF 2

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29007 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29007 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190
FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	Cmy 11-11-16	AGP 11/11/16	Am 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" NPT

OUTLET: 3/8" NPT

GENERAL

APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

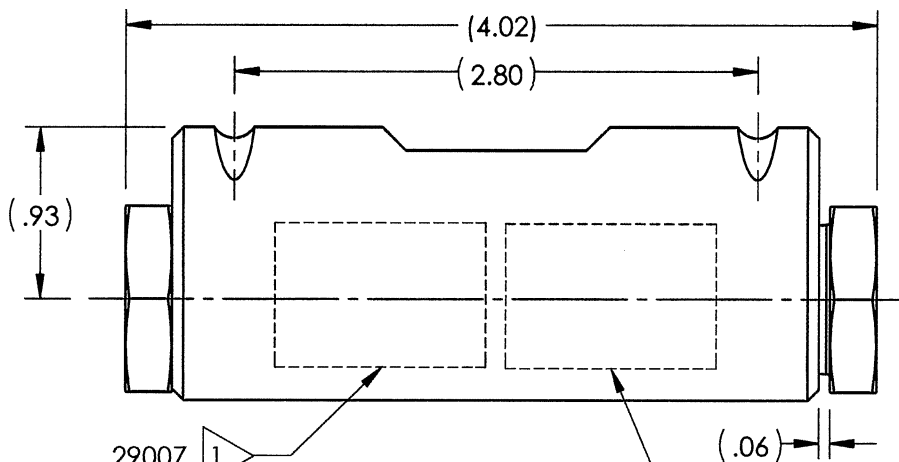
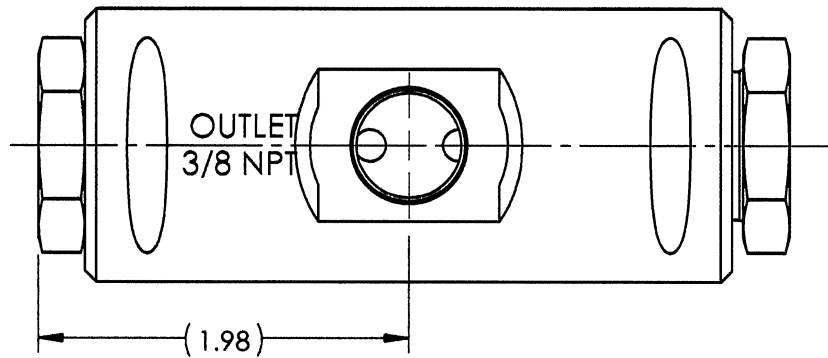
FIELD SERVICEABLE

OUTLET

INLET 2

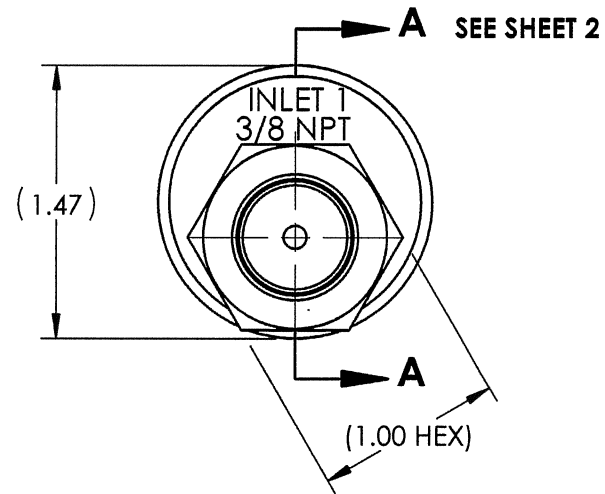
INLET 1

SCHEMATIC



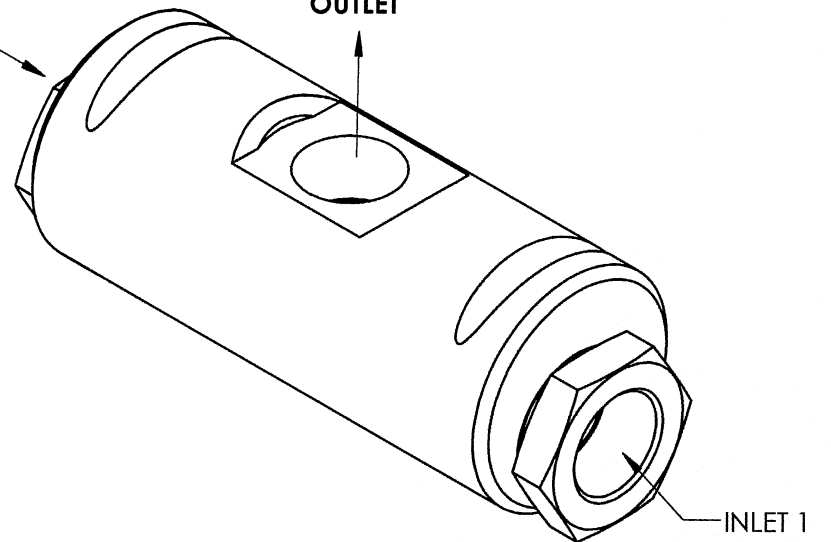
29007
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION



INLET 2

OUTLET



PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 3/8" NPT IN,
3/8" NPT OUT, LI, 5000 PSI, DISC SEAL

MATERIAL:
SEE PARTS IN BOM

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	Cmy	DATE	11-11-16
CHECKED BY	AGP	DATE	11/11/16
ENGINEER	Am	DATE	11/11/16
ERN NUMBER	02089	DATE	10-13-16

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SIZE
B

DWG NO

SCALE 1:1

SolidWorks

29007

REV
A

SHEET 1 OF 2

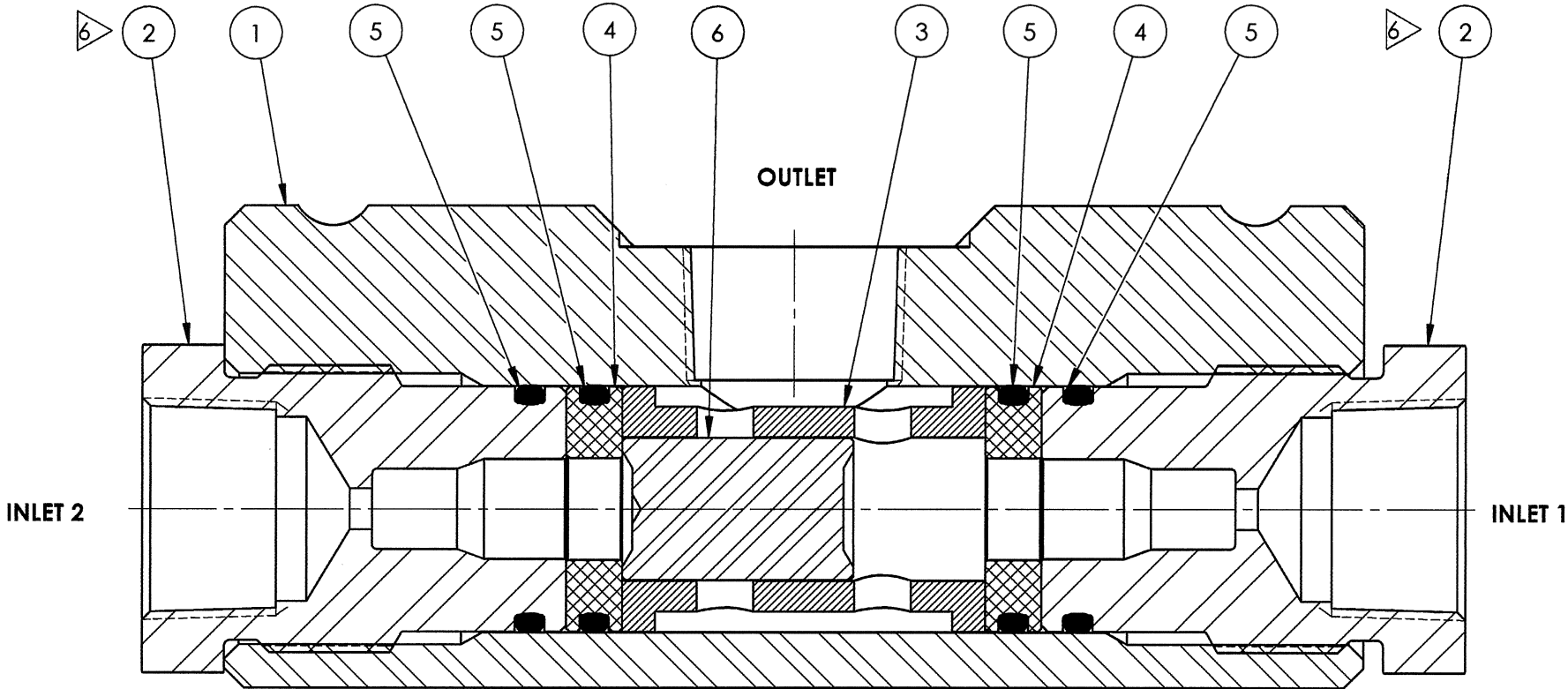
4

3

2


1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145193	BODY- 3/8" NPT	A276 TP 316	1		
2	144711	END CAP- 3/8" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv



SIZE
B

DWG NO
29007

REV
A

SCALE
1:1

SolidWorks

SHEET 2 OF 2

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29007-1 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29007-1 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	Cmy 11-11-16	APP 11/11/16	Jim 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM

Cv = .6 (CALC)

MINIMUM SHUT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" NPT

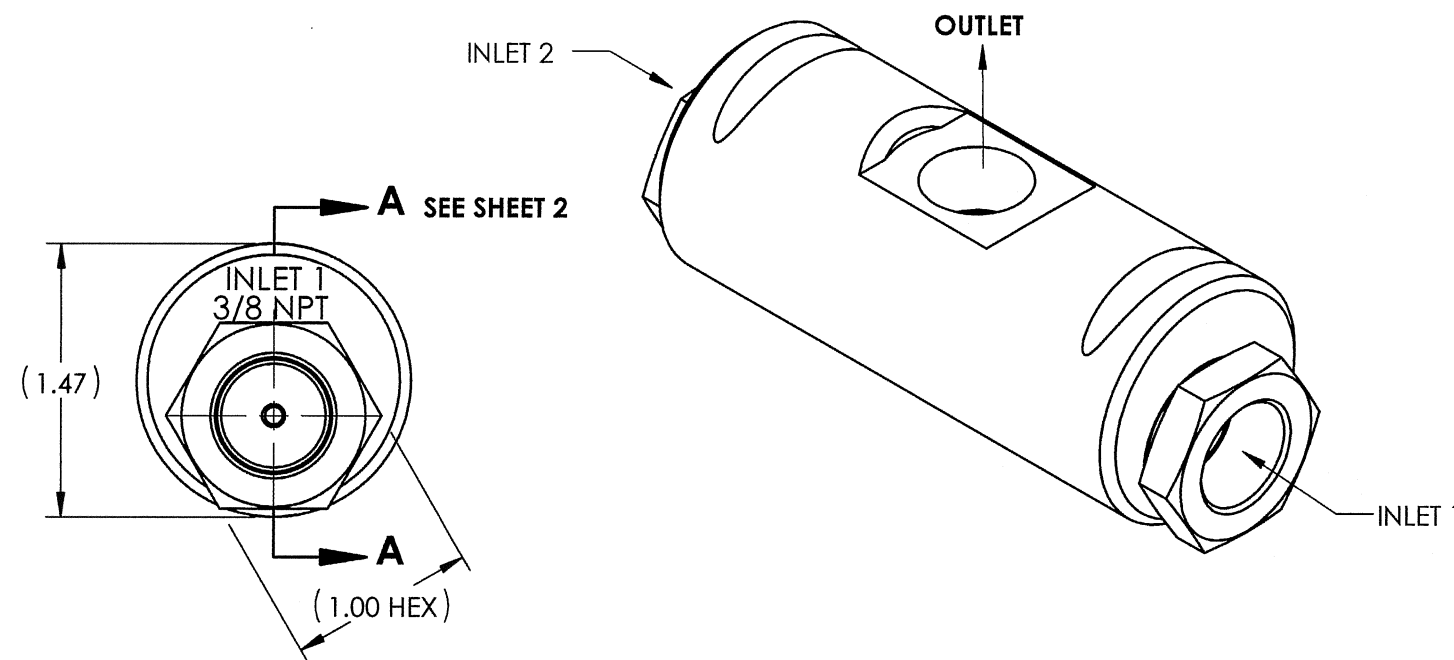
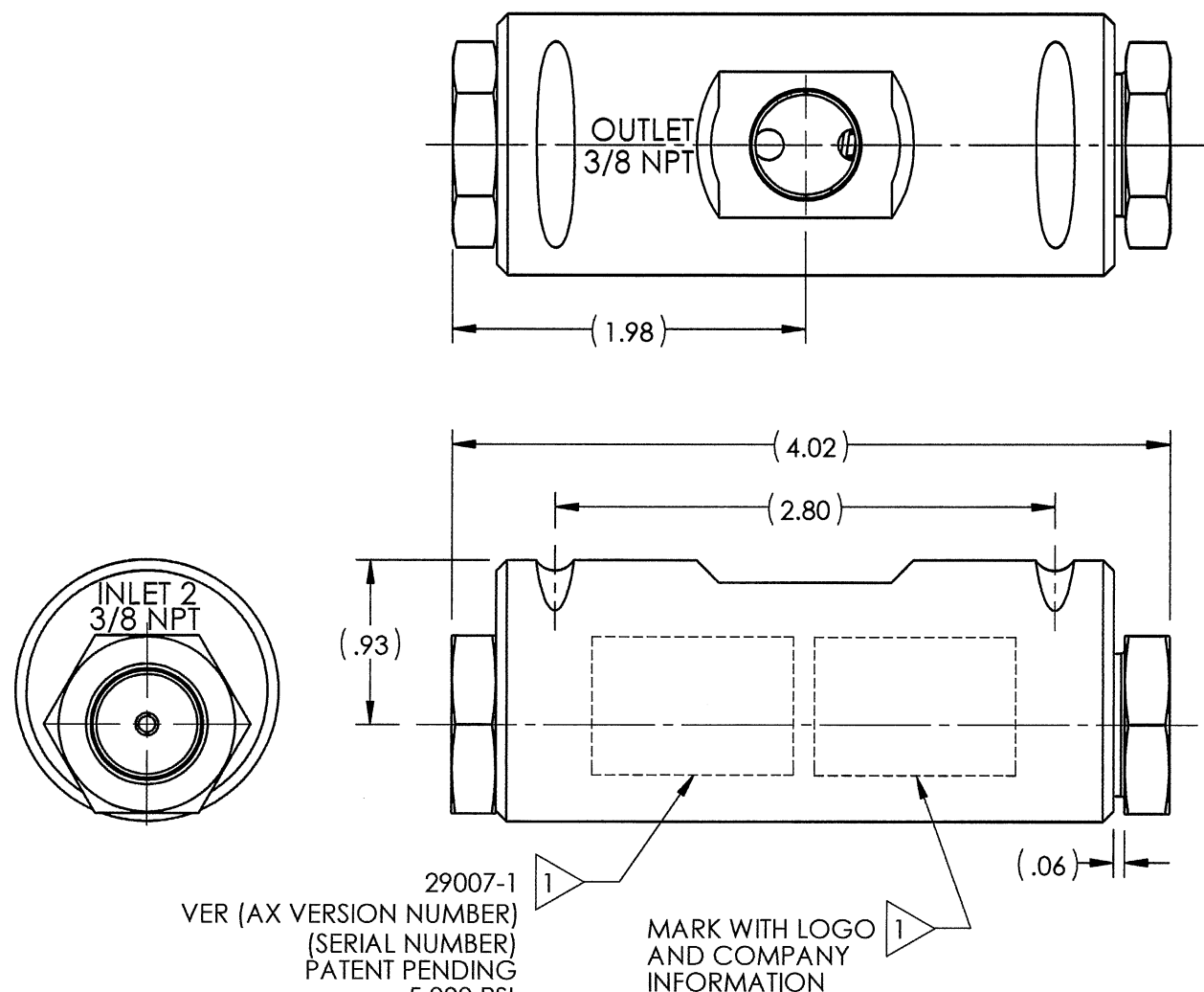
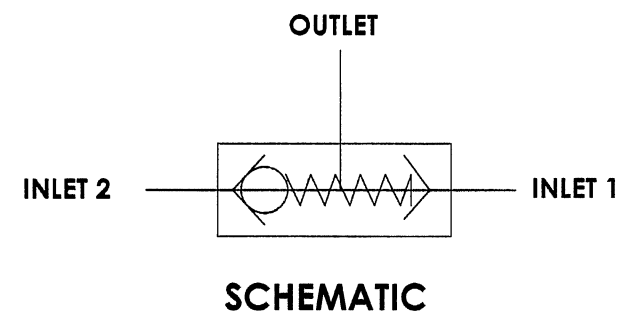
OUTLET: 3/8" NPT

GENERAL

APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



PATENT PENDING

proserv | **Gilmore**

VALVE, SHUTTLE, IN-LINE, 3/8" NPT IN, 3/8" NPT OUT, LI, 5000 PSI, DISC SEAL SPRING BIASED

SIZE	DWG NO	REV
B	29007-1	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	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 Cmy 11-11-16 CHECKED BY APP 11/11/16 ENGINEER Jim 11/11/16 ERN NUMBER 02089 10-14-16 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.
CONDITION:		
TREATMENT:		
PROCEDURE NUMBER: 5		

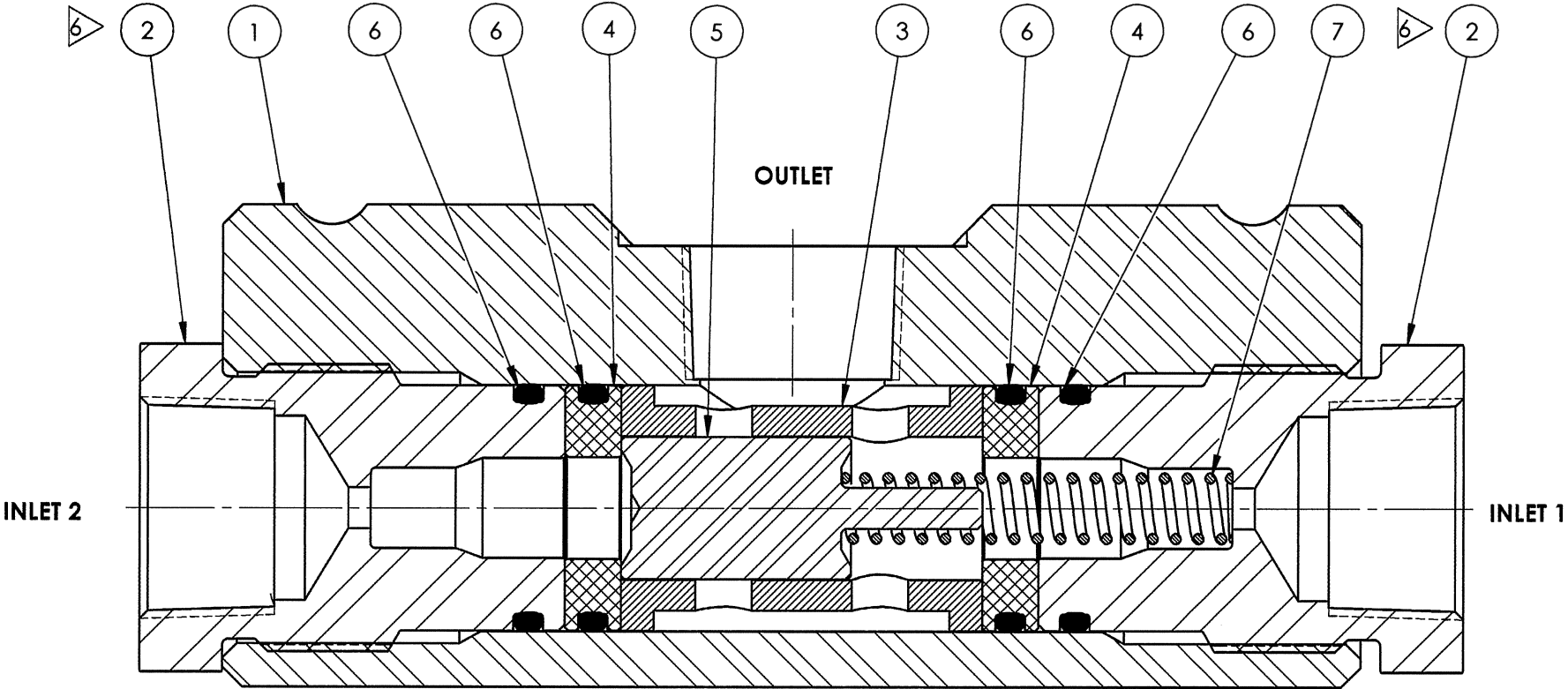
4

3


2

1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145193	BODY- 3/8" NPT	A276 TP 316	1		
2	144711	END CAP- 3/8" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	



SECTION A-A
SCALE 2 : 1

proserv | 

SIZE
B

DWG NO
29007-1

REV
A

SCALE
1:1

SolidWorks

SHEET 2 OF 2

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29007-2 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29007-2 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	Cmy 11-11-16	ADP 11/11/16	Jim 11/16/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.

2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" NPT

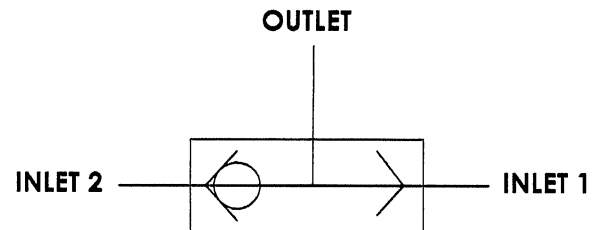
OUTLET: 3/8" NPT

GENERAL

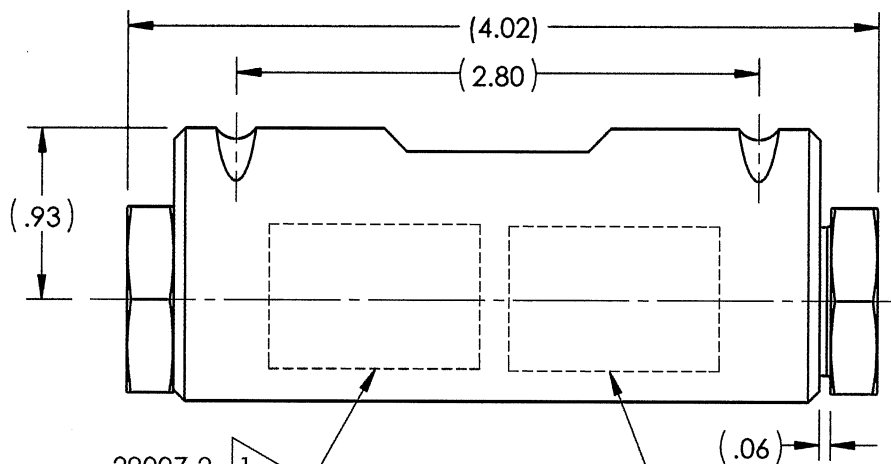
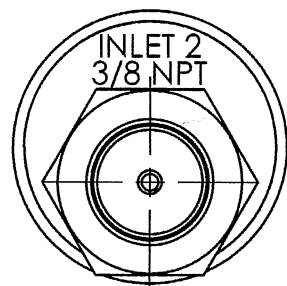
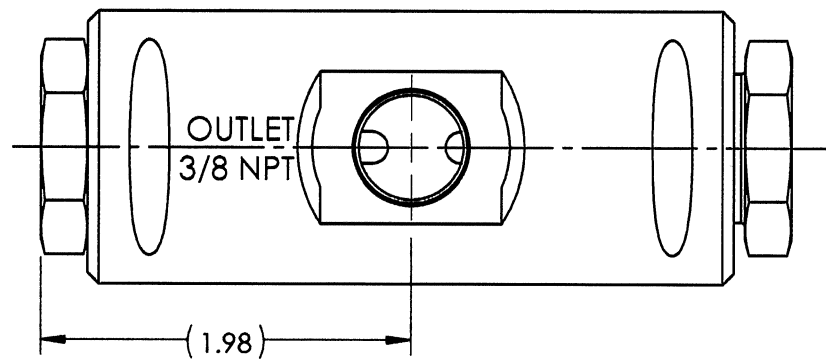
APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE

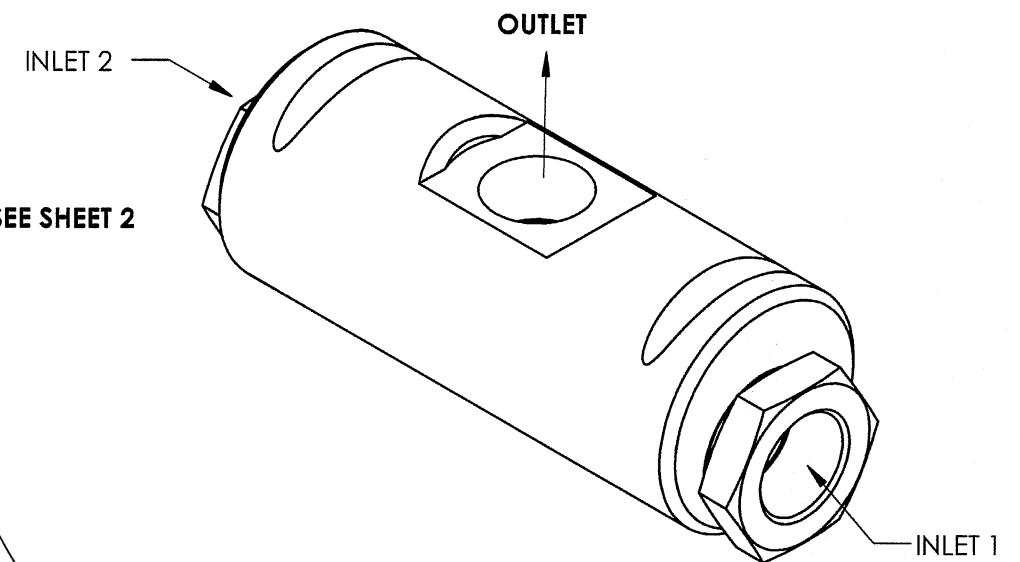
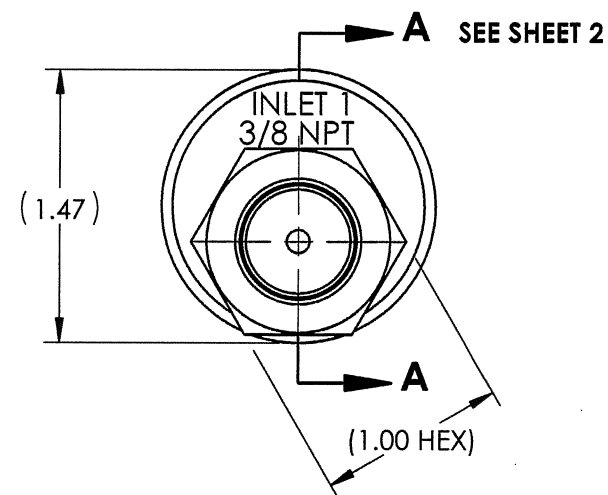


SCHEMATIC



29007-2
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION



PATENT PENDING

proserv 

VALVE, SHUTTLE, IN-LINE, 3/8" NPT IN,
3/8" NPT OUT, HI, 5000 PSI, DISC SEAL

SIZE	DWG NO	REV
B	29007-2	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994. UNLESS OTHERWISE SPECIFIED:	APPROVAL
CONDITION:	1) TOLERANCES: .X: ±.1 .XX: ±.01 .XXX: ±.005 ANGLES: ±.5°	DRAWN BY Cmy 11-11-16
TREATMENT:	2) SURFACE TEXTURE: 63	CHECKED BY ADP 11/11/16
PROCEDURE NUMBER: 5	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°	ENGINEER Jim 11/11/16
		ERN NUMBER 02089 10-13-16
		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.

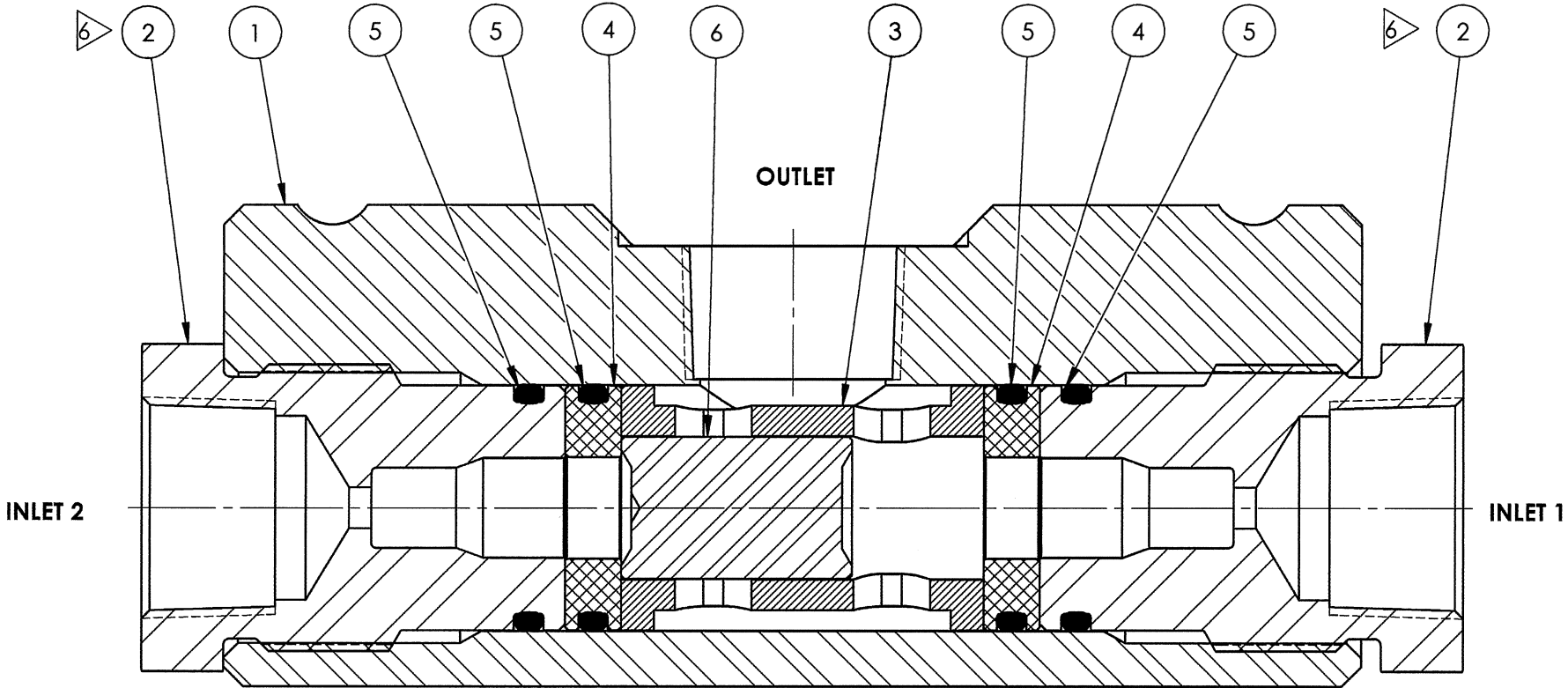
4

3

2

1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145193	BODY- 3/8" NPT	A276 TP 316	1		
2	144711	END CAP- 3/8" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv



SIZE B	DWG NO 29007-2	REV A
SCALE 1:1	SolidWorks	SHEET 2 OF 2

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29007-3 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29007-3 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	Cmy 11-11-16	APP 11/11/16	DEM 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" NPT

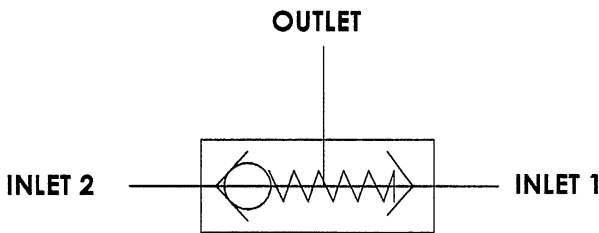
OUTLET: 3/8" NPT

GENERAL

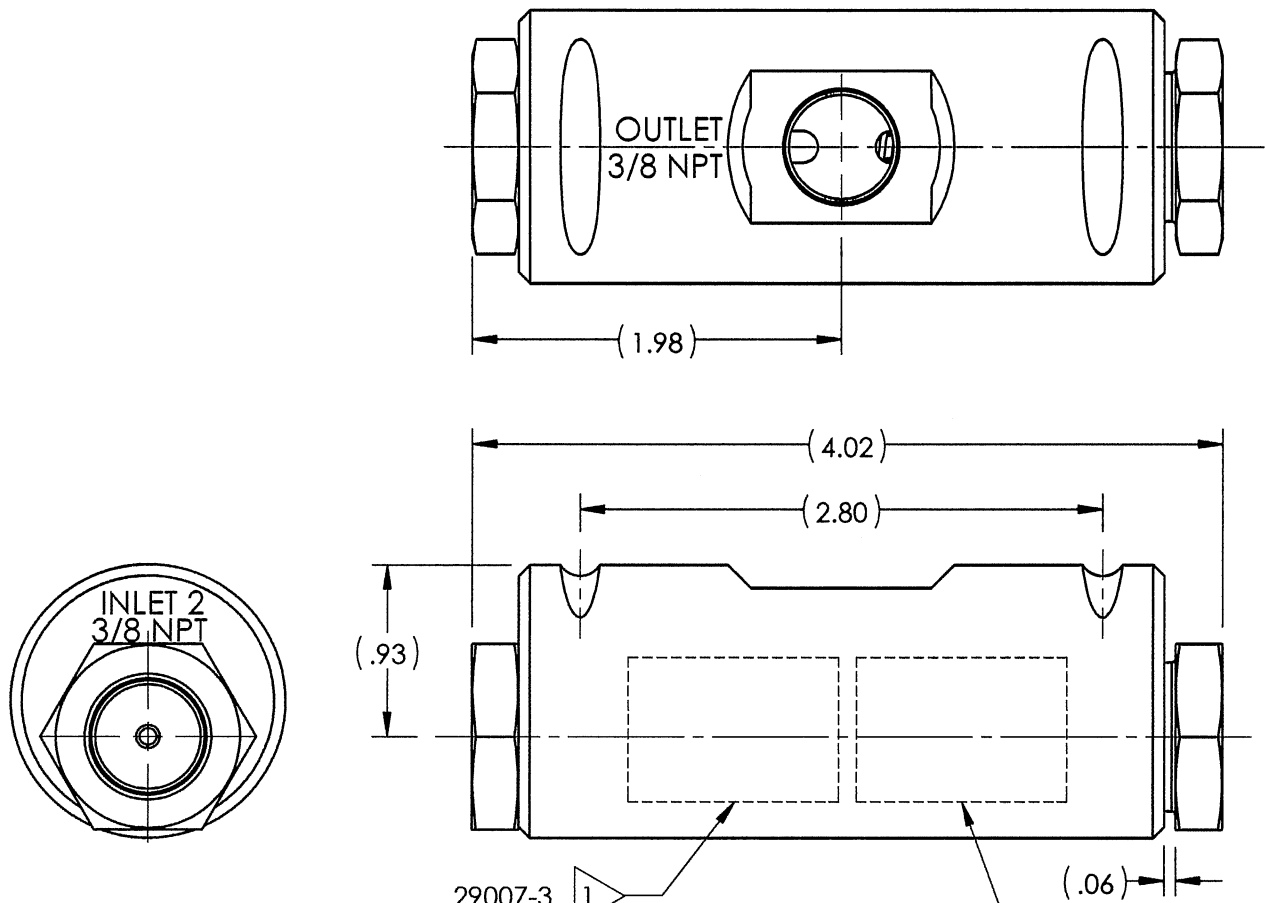
APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE

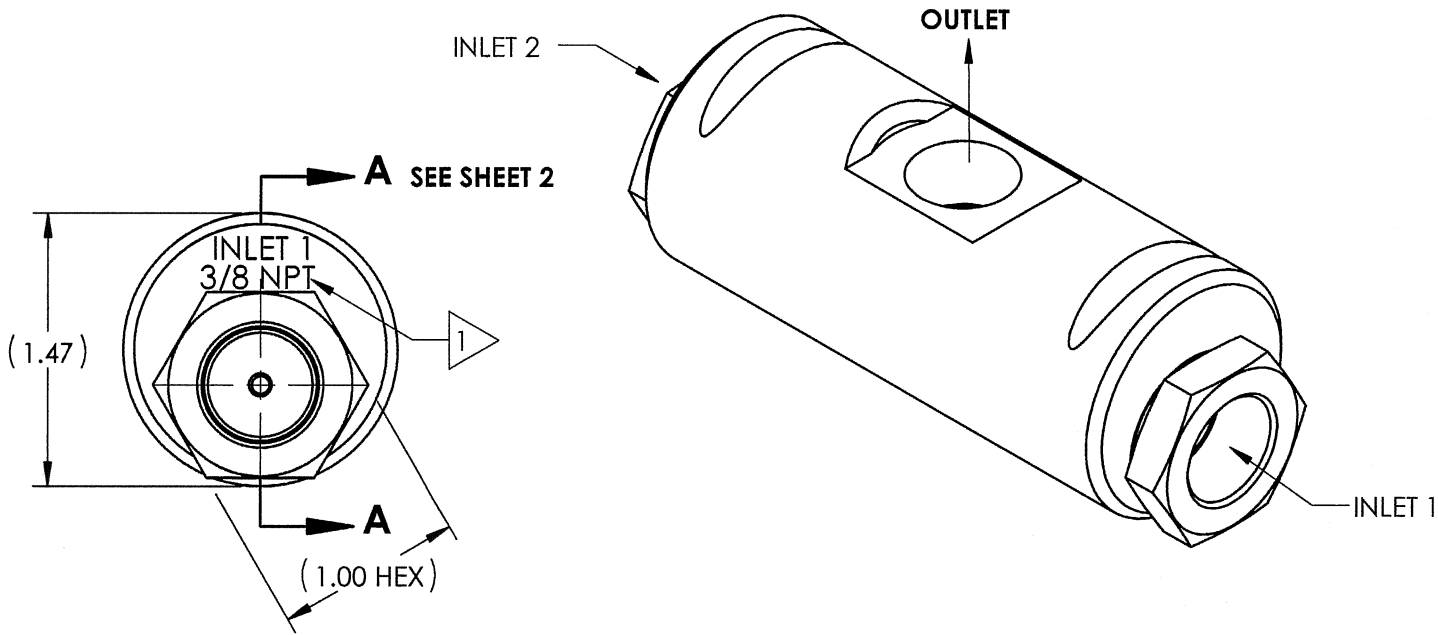


SCHEMATIC



29007-3
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION



PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 3/8" NPT IN,
3/8" NPT OUT, HI, 5000 PSI, DISC SEAL
SPRING BIASED

SIZE	DWG NO	REV
B	29007-3	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	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 Cmy 11-11-16 CHECKED BY APP 11/11/16 ENGINEER DEM 11/11/16 ERN NUMBER 02089 10-14-16 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.
CONDITION:		
TREATMENT:		
PROCEDURE NUMBER: 5		

4

3

2

1

4

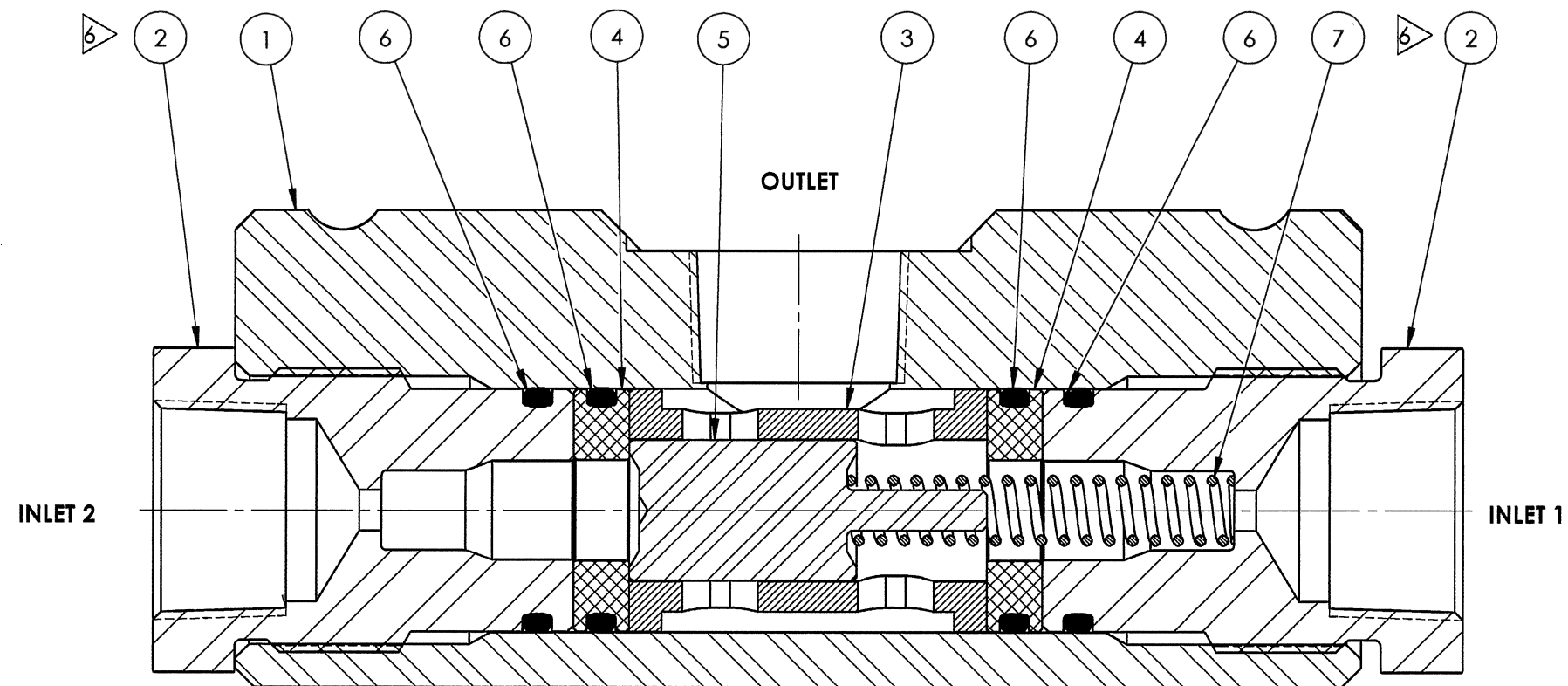
3

2

1

BILL OF MATERIALS

ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145193	BODY- 3/8" NPT	A276 TP 316	1		
2	144711	END CAP- 3/8" NPT	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	



SECTION A-A
SCALE 2 : 1

proserv | Gilmore

SIZE B	DWG NO 29007-3	REV A
SCALE 1:1	SolidWorks	SHEET 2 OF 2

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29008 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29008 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190
FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	com 11-11-16	APP 11/11/16	Jim 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" SAE

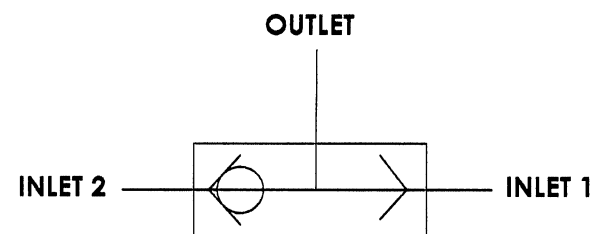
OUTLET: 3/8" SAE

GENERAL

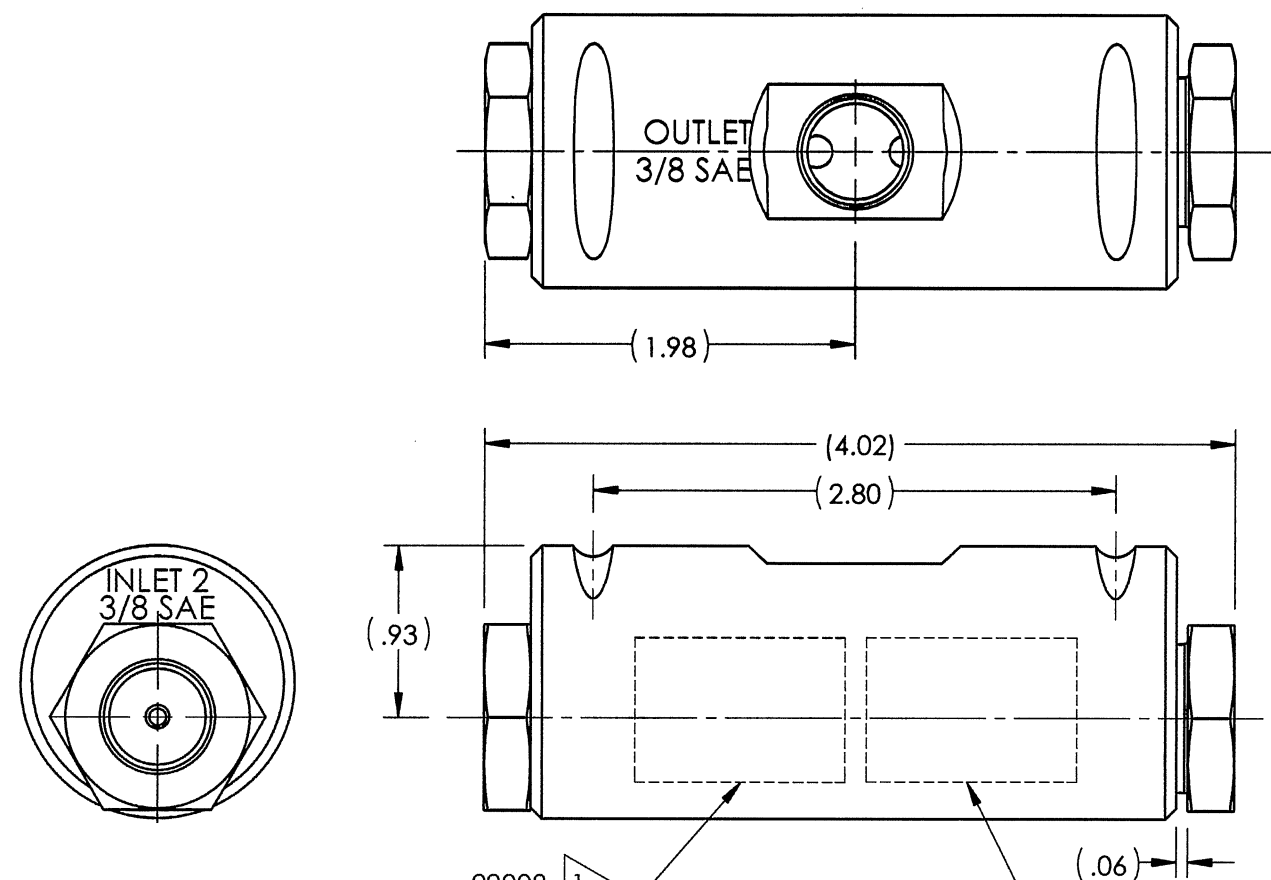
APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE

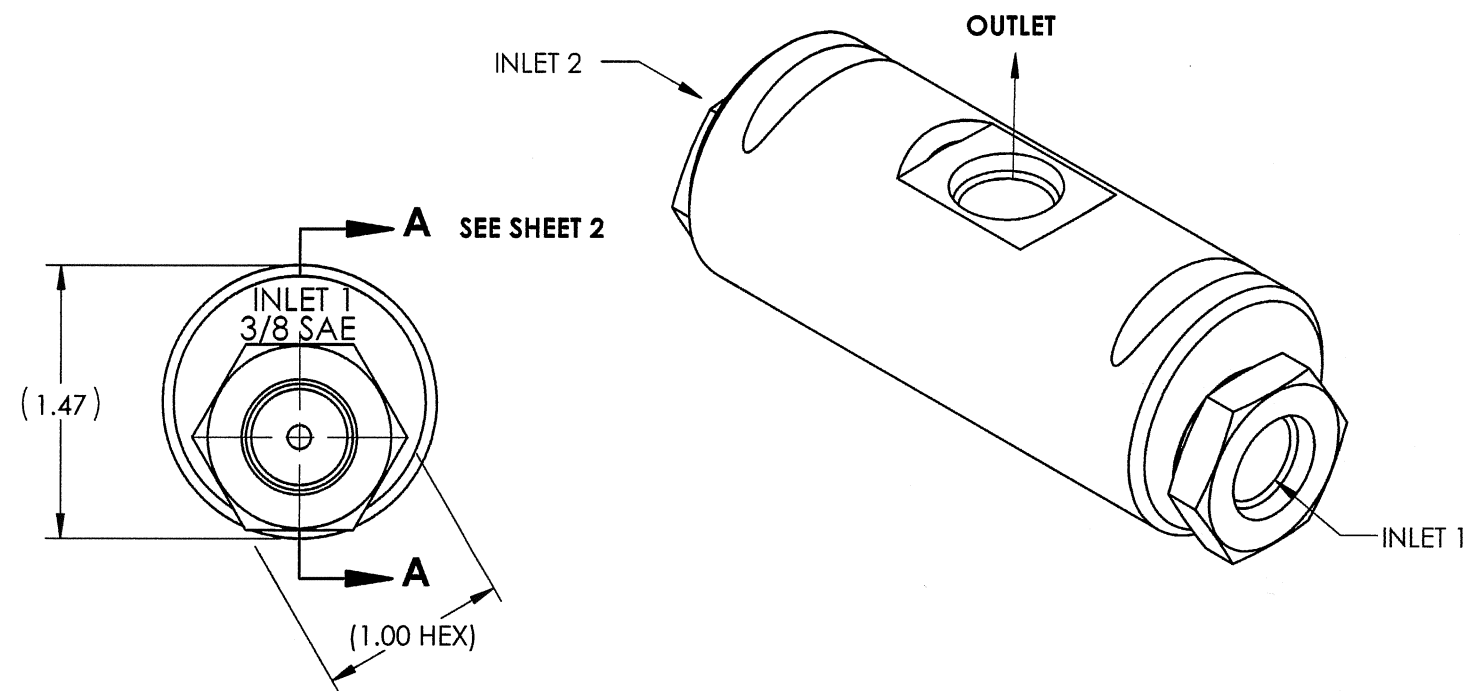


SCHEMATIC



29008
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION



PATENT PENDING

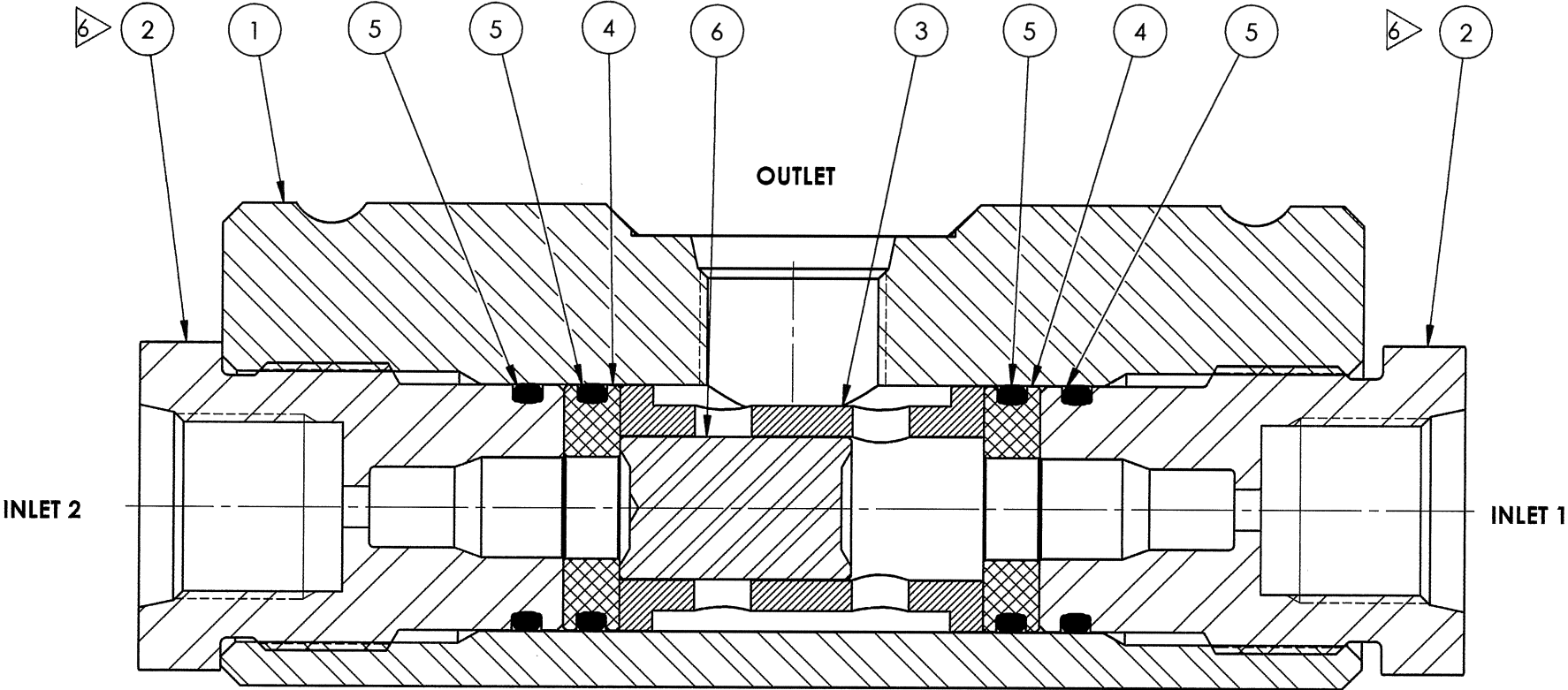
proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 3/8" SAE IN,
3/8" SAE OUT, LI, 5000 PSI, DISC SEAL


SIZE	DWG NO	REV
B	29008	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL:	DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994, UNLESS OTHERWISE SPECIFIED:	APPROVAL
SEE PARTS IN BOM	1) TOLERANCES: .X: ±.1 .XX: ±.01 .XXX: ±.005 ANGLES: ±.5°	DRAWN BY: com 11-11-16 CHECKED BY: APP 11/11/16 ENGINEER: Jim 11/11/16 ERN NUMBER: 02089 10-13-16
CONDITION:	2) SURFACE TEXTURE: 63	
TREATMENT:	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°	
PROCEDURE NUMBER: 5		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.

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145194	BODY- 3/8" SAE	A276 TP 316	1		
2	144714	END CAP- 3/8" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv 			
SIZE B	DWG NO 29008	REV A	
SCALE 1:1	SolidWorks	SHEET 2 OF 2	

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29008-1 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29008-1 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	cm 11-11-16	APP 11/11/16	dm 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" SAE

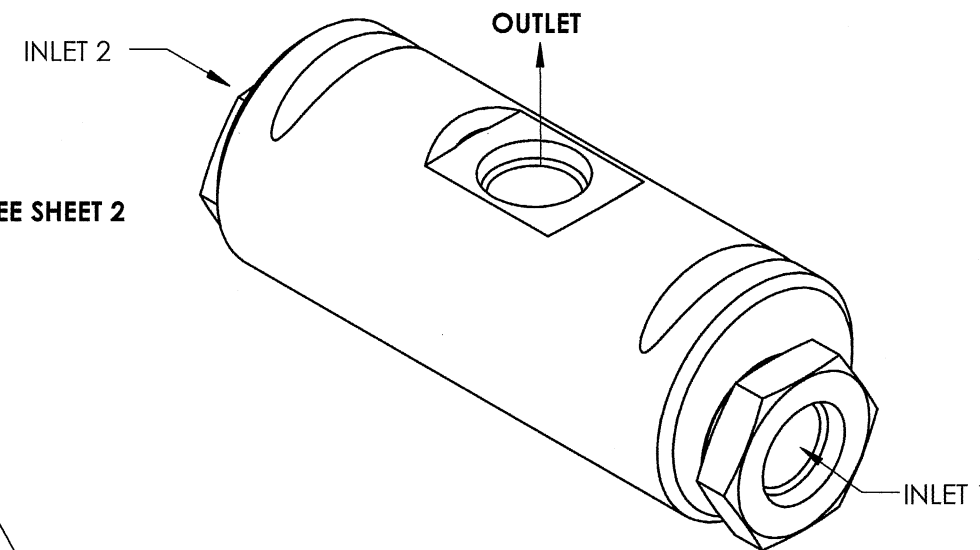
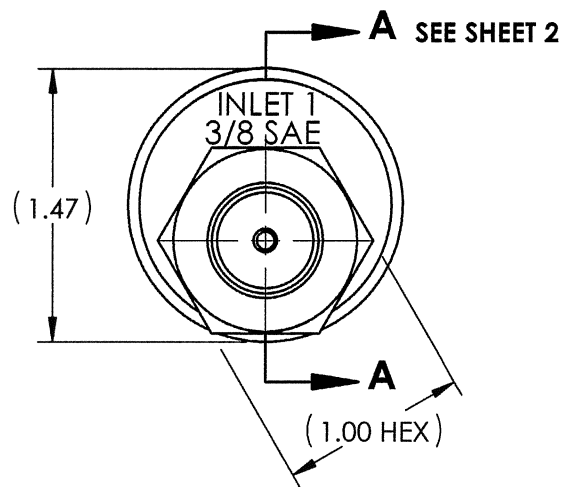
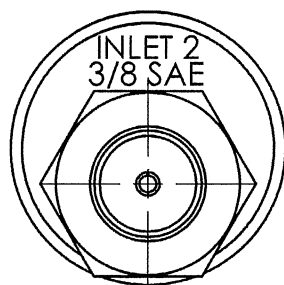
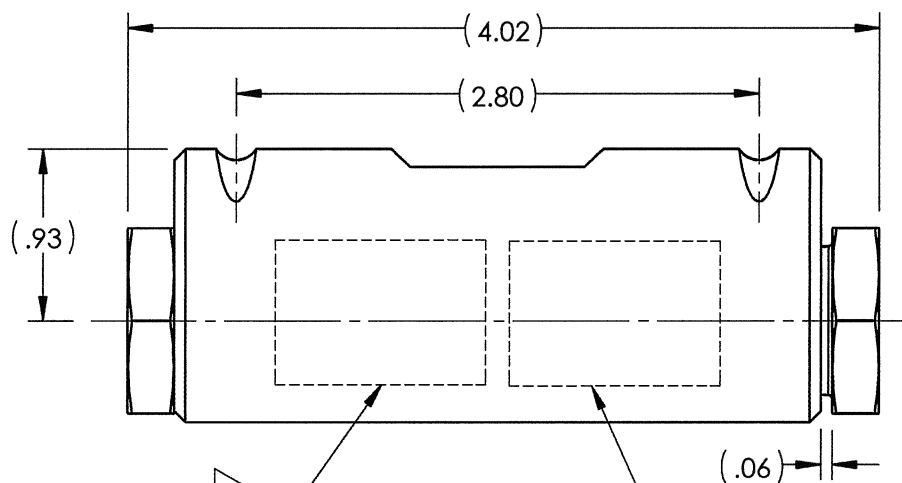
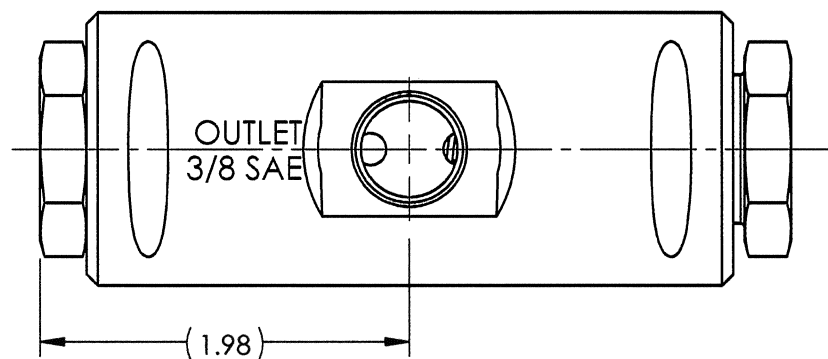
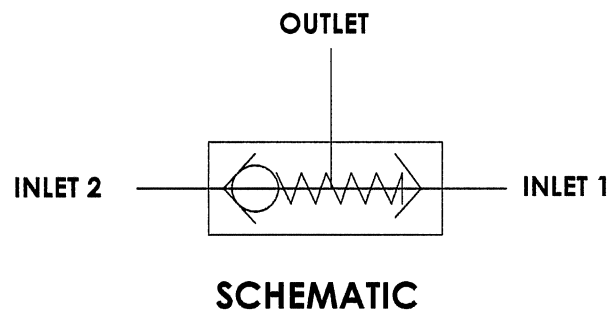
OUTLET: 3/8" SAE

GENERAL

APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



29008-1
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION

MATERIAL:
SEE PARTS IN BOM

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	DATE
Cmy	11-11-16
CHECKED BY	DATE
APP	11/11/16
ENGINEER	DATE
dm	11/11/16
ERN NUMBER	DATE
02089	10-14-16

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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

proserv 

**VALVE, SHUTTER, IN-LINE, 3/8" SAE IN,
3/8" SAE OUT, LI, 5000 PSI, DISC SEAL
SPRING BIASED**

SIZE	DWG NO	REV
B	29008-1	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

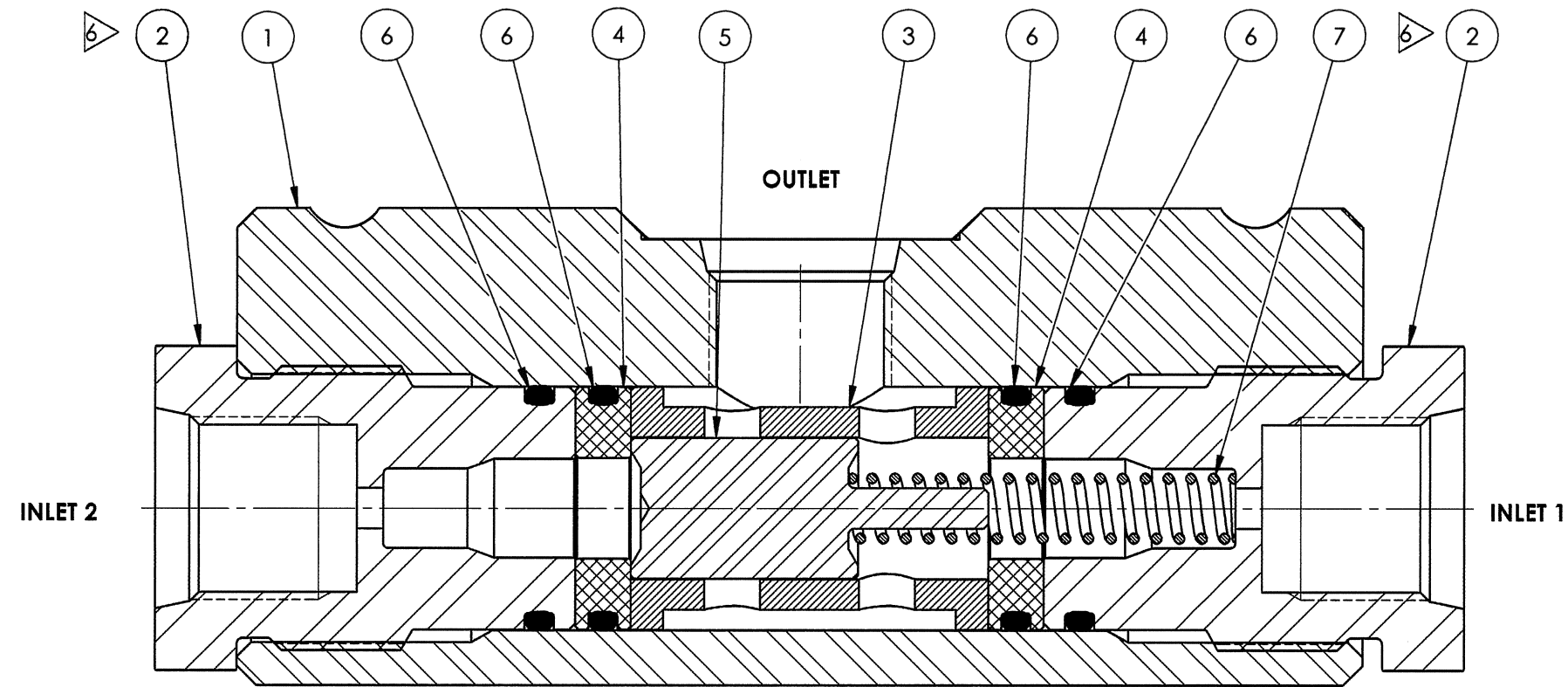
4

3

2


1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145194	BODY- 3/8" SAE	A276 TP 316	1		
2	144714	END CAP- 3/8" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	108176	CAGE- LI	A276 TP S21800 (NITRONIC 60)	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	



SECTION A-A
SCALE 2 : 1

proserv



SIZE
B

DWG NO
29008-1

REV
A

SCALE
1:1

SolidWorks

SHEET 2 OF 2

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29008-2 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29008-2 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	Cuy 11-11-16	APP 11/11/16	Am 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 8 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" SAE

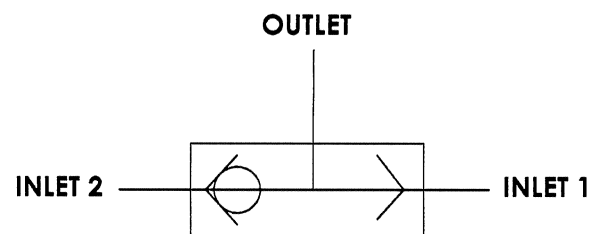
OUTLET: 3/8" SAE

GENERAL

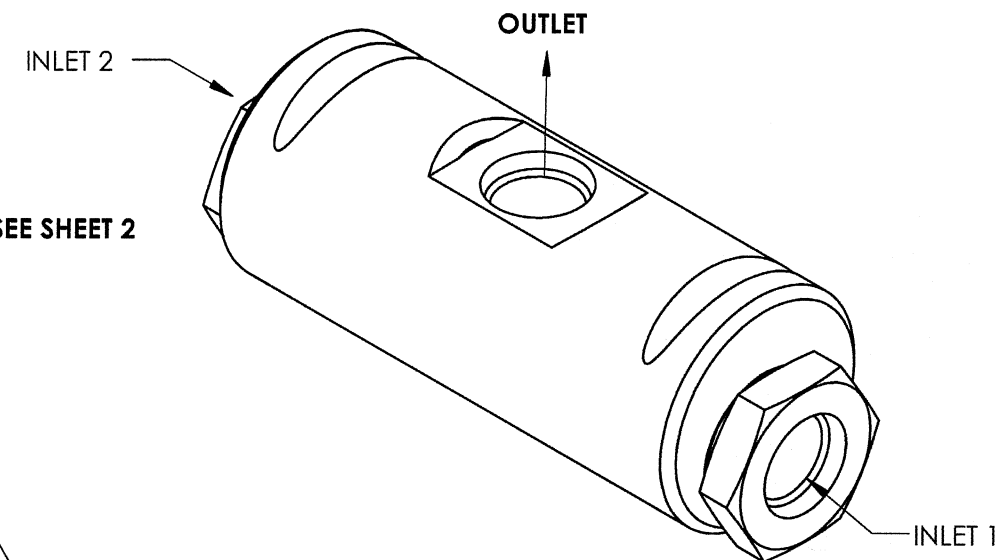
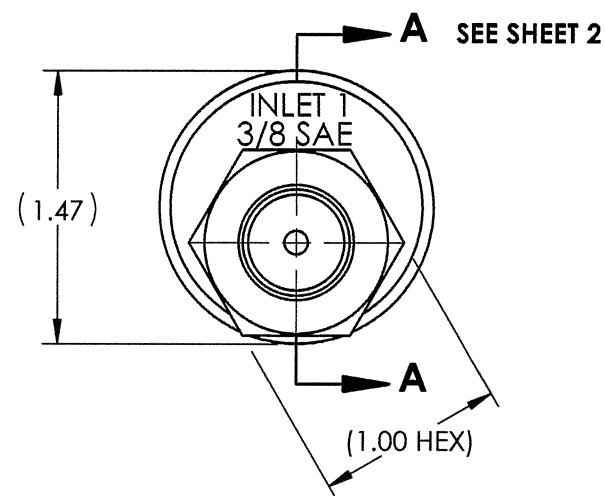
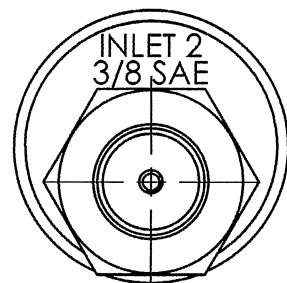
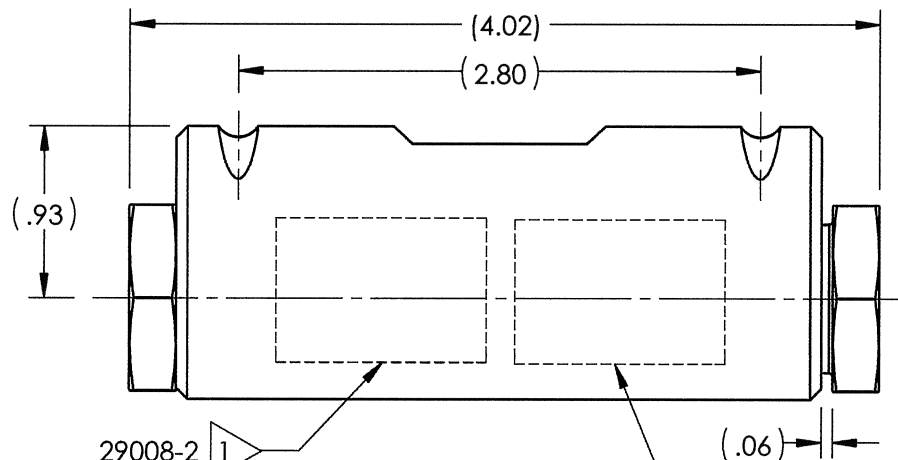
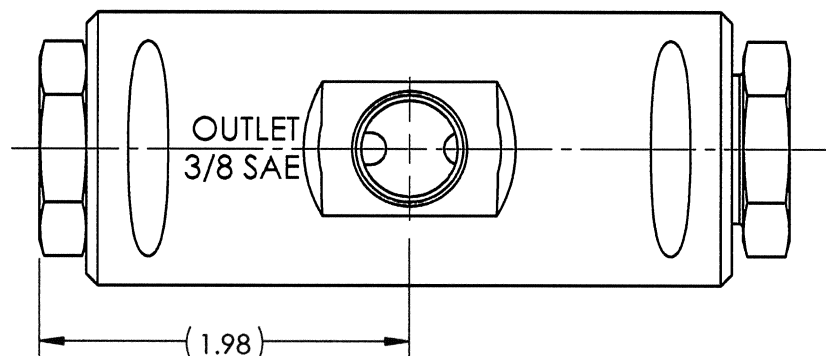
APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



SCHEMATIC



29008-2
VER (AX VERSION NUMBER)
(SERIAL NUMBER)
PATENT PENDING
5,000 PSI
(DATE OF MFG)
SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

MARK WITH LOGO
AND COMPANY
INFORMATION

PATENT PENDING

proserv | Gilmore

VALVE, SHUTTLE, IN-LINE, 3/8" SAE IN,
3/8" SAE OUT, HI, 5000 PSI, DISC SEAL

SIZE	DWG NO	REV
B	29008-2	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL:
SEE PARTS IN BOM

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	DATE
Cuy	11-11-16
CHECKED BY	DATE
APP	11/11/16
ENGINEER	DATE
Cuy	11/11/16
ERN NUMBER	DATE
02089	10-13-16

THE INFORMATION CONTAINED IN THIS DRAWING IS THE
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THE WRITTEN PERMISSION OF GILMORE VALVE CO IS PROHIBITED.

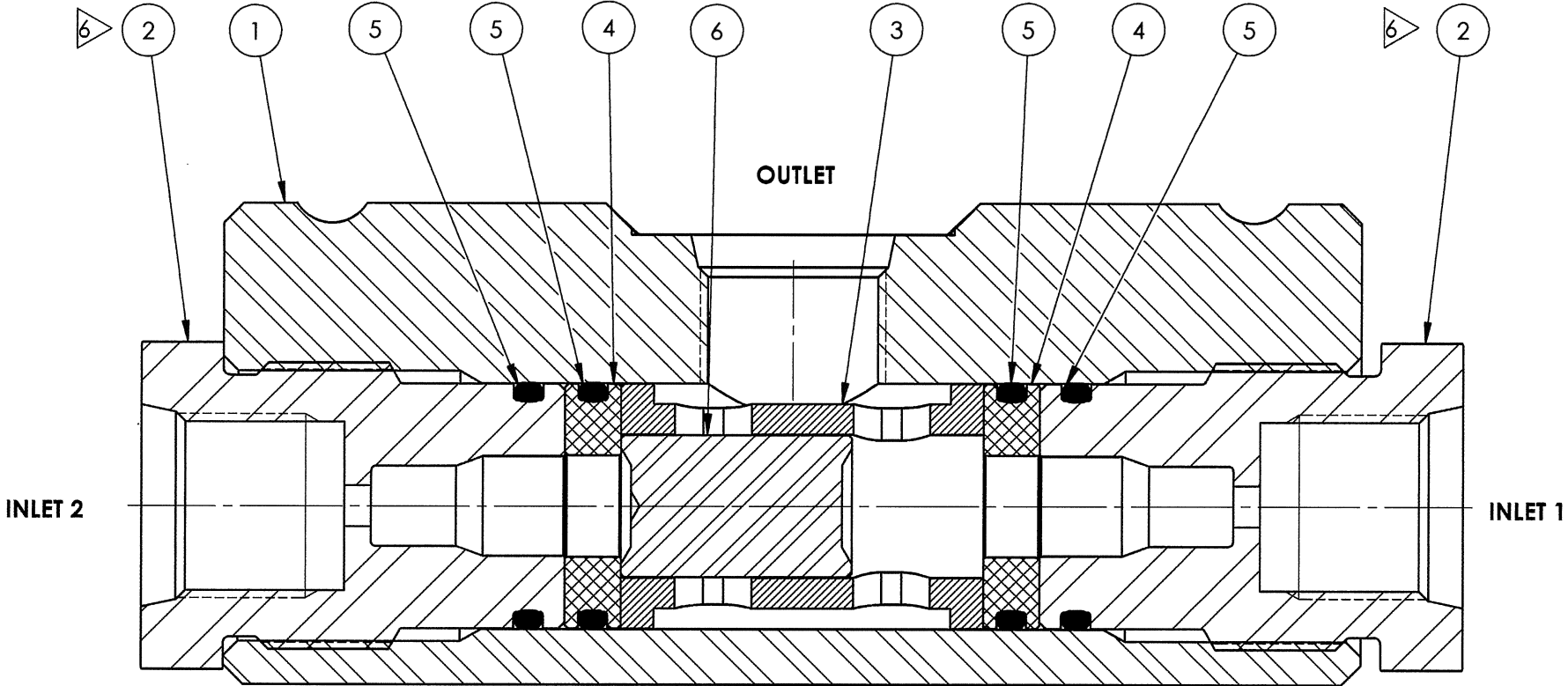
4

3

2

1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145194	BODY- 3/8" SAE	A276 TP 316	1		
2	144714	END CAP- 3/8" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	PEEK	2	X	X
5	18100-001C	O-RING	BUNA-N 90	4	X	X
6	144627	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	



SECTION A-A
SCALE 2 : 1

proserv | 

SIZE	DWG NO	REV
B	29008-2	A
SCALE	1:1	SHEET 2 OF 2
SolidWorks		

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .13 HIGH MIN CHARACTERS.
- 2 ALL METAL PARTS ARE PASSIVATED.
3. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 29008-3 SK.
4. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 29008-3 RK.
- 5 FOR ASSEMBLY PROCEDURE SEE 50190 FOR MAINTENANCE PROCEDURE SEE 51014
- 6 TORQUE CAPS TO 30 FT-LBS

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02089	cmf 11-11-16	APP 11/11/16	dm 11/11/16

PRESSURE DATA

MAWP: 5,000 PSI

FLOW DATA

MAX FLOW CAPACITY: 4 GPM

Cv = .6 (CALC)

MINIMUM SHIFT FLOW AT 1,500 PSI DIFFERENTIAL PRESSURE 0.10 GPM

FLUIDS: 1) WATER BASED DRILLING CONTROL FLUID.
2) MINERAL OIL BASED DRILLING CONTROL FLUID.

CRACKING PRESSURE <20 PSI

PORTS

INLETS: 3/8" SAE

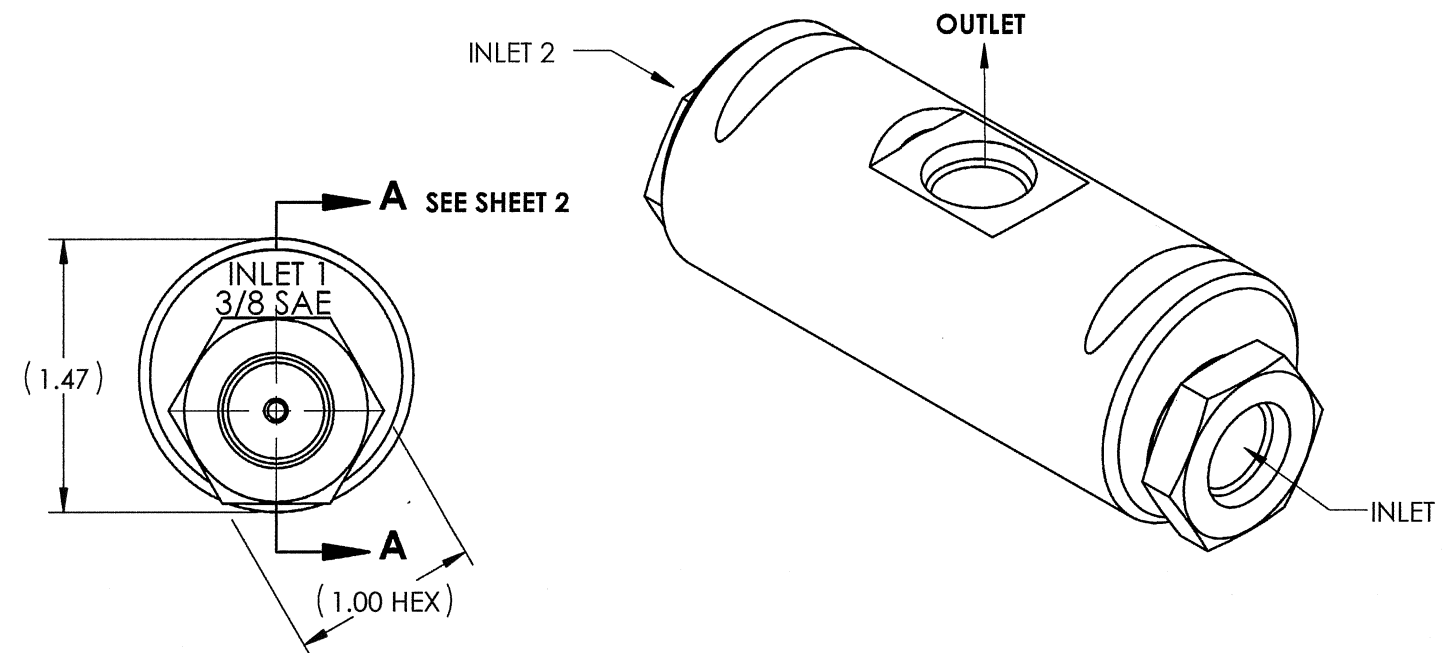
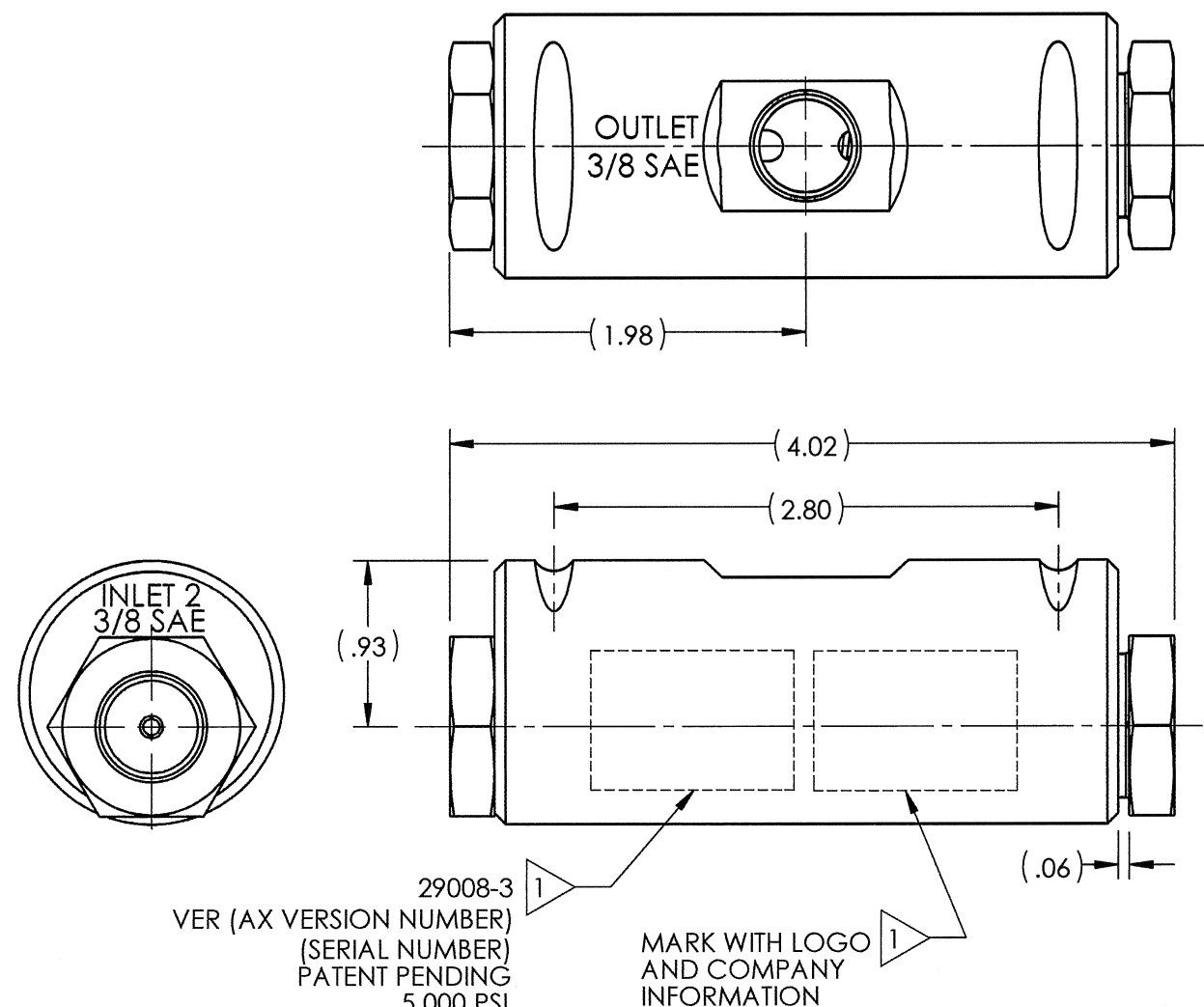
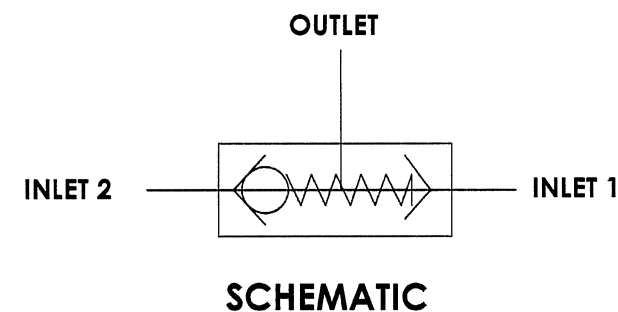
OUTLET: 3/8" SAE

GENERAL

APPROX WEIGHT: 1.6 LBS

TEMPERATURE: 32°F TO 150°F

FIELD SERVICEABLE



PATENT PENDING

proserv Gilmore

VALVE, SHUTTLE, IN-LINE, 3/8" SAE IN, 3/8" SAE OUT, HI, 5000 PSI, DISC SEAL SPRING BIASED

SIZE	DWG NO	REV
B	29008-3	A
SCALE 1:1	SolidWorks	SHEET 1 OF 2

MATERIAL: SEE PARTS IN BOM	DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994, UNLESS OTHERWISE SPECIFIED:	APPROVAL
CONDITION:	1) TOLERANCES: .X: ±.1 .XX: ±.01 .XXX: ±.005 ANGLES: ±.5°	DRAWN BY cmf 11-11-16
TREATMENT:	2) SURFACE TEXTURE: 63	CHECKED BY APP 11/11/16
PROCEDURE NUMBER: 5	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°	ENGINEER dm 11/11/16
		ERN NUMBER 02089 10-14-16
		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.

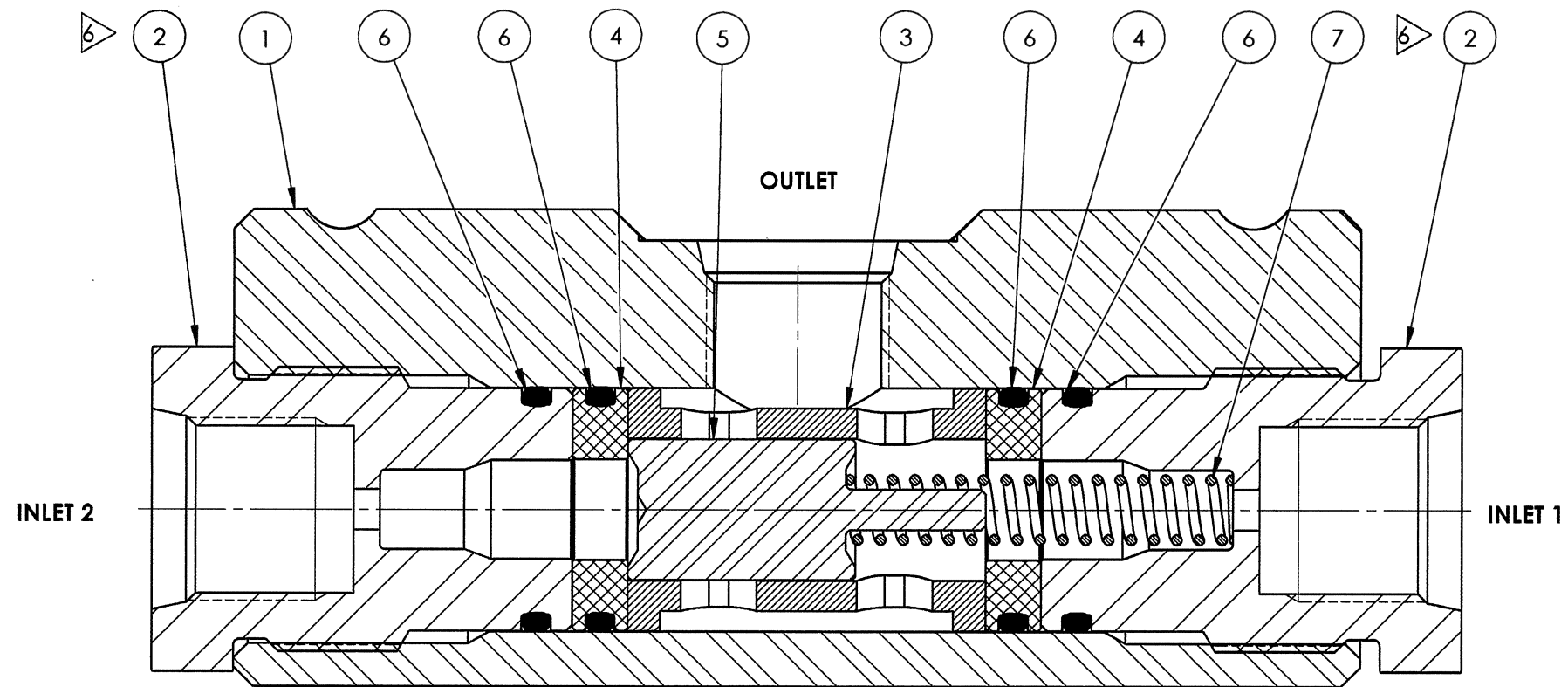
4

3

2


1

BILL OF MATERIALS						
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY.	RK	SK
1	145194	BODY- 3/8" SAE	A276 TP 316	1		
2	144714	END CAP- 3/8" SAE	A276 UNS S21800 (NITRONIC 60)	2		
3	144628	CAGE- HI	A276 TP S21800	1	X	
4	108175	SEAL, DISC	POLYETHERETHERKETONE	2	X	X
5	108177	SHUTTLE	A276 UNS S21800 (NITRONIC 60)	1	X	
6	18100-001C	O-RING	BUNA-N 90	4	X	X
7	28441	SPRING	ELGILOY	1	X	



SECTION A-A
SCALE 2:1

proserv



SIZE

DWG NO

REV

B

29008-3

A

SCALE

1:1

SolidWorks

SHEET 2 OF 2