

Product Improvement Notification

Gilmore Regulator Tungsten Carbide Improvements

REV	DATE	DESCRIPTION	ORIGIN (issued by)	APPROVED
001	02-07-2020	Document No: 135-020720-001	SD	BR

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Call (800) 469-8786

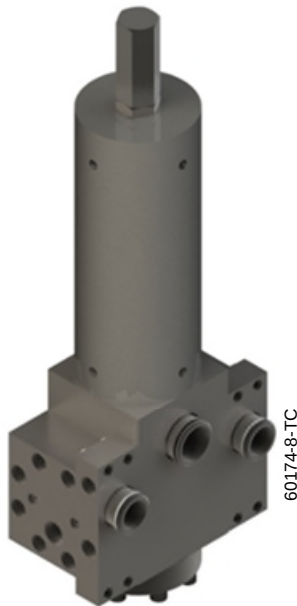
Gilmore@proserv.com

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

Product Improvement Notification

Gilmore Regulator Tungsten Carbide Improvements

Figure 1. PN 60174-8-TC: 1" Seal Sub Mounted Hydraulic Pressure Regulator



Gilmore has released an improved version of our 1" Manual Regulators.

Features:

- » Upgraded existing dynamic O-ring seal to T-seal design for improved debris tolerance and resistance to spiral failure
- » Upgraded plunger piston material to nickel aluminium bronze for improved galling resistance
- » Improved shear seal trim to Tungsten Carbide material

Figure 2. PN 60174-8-TC: Cross-section of 1" Hydraulic Pressure Regulator with T-seal detail

- » The improved regulators have identical footprints to the legacy manual regulators and conversion kits are available for existing regulators.

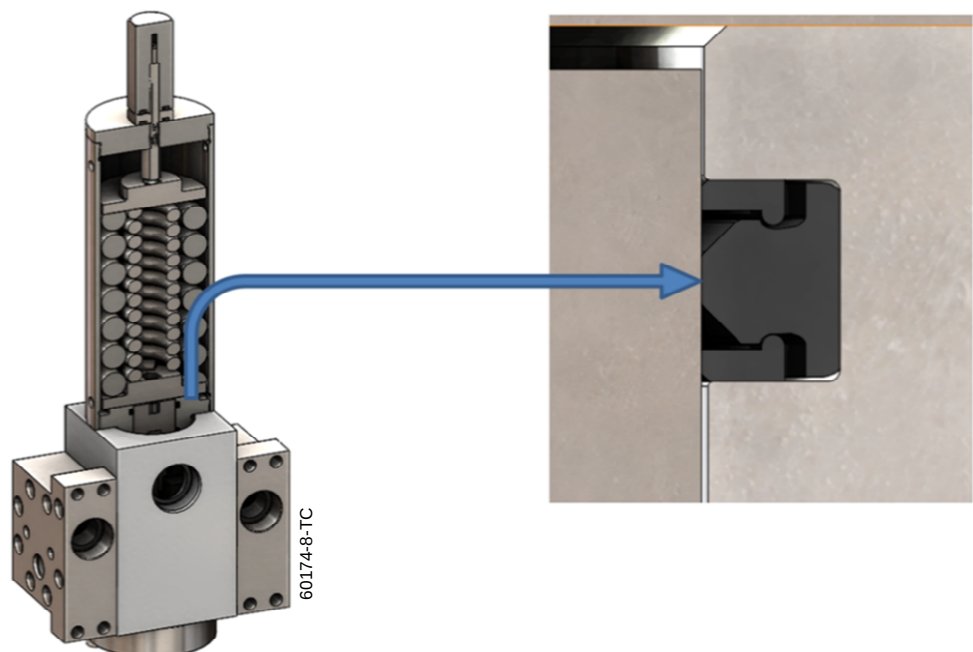
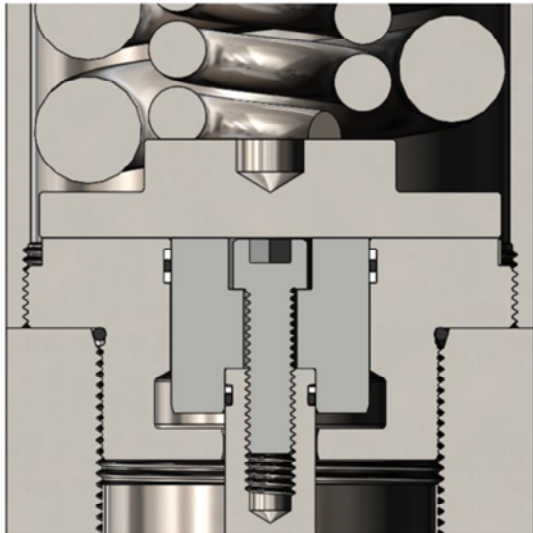
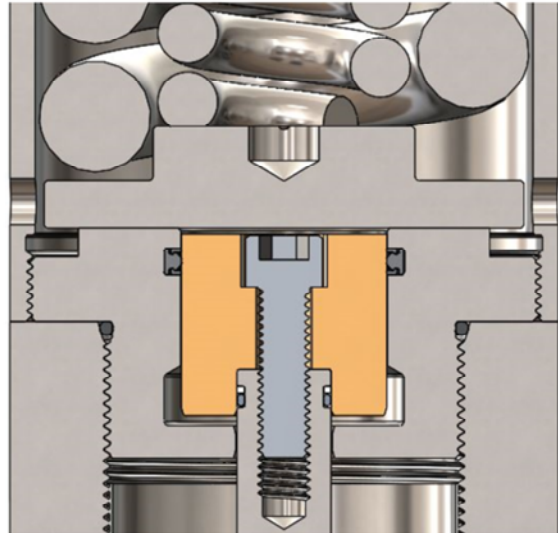


Figure 3. Legacy Nitronic 60 Plunger (12942-3) with O-ring vs new Nickel Aluminum Bronze Plunger (197511) with T-seal

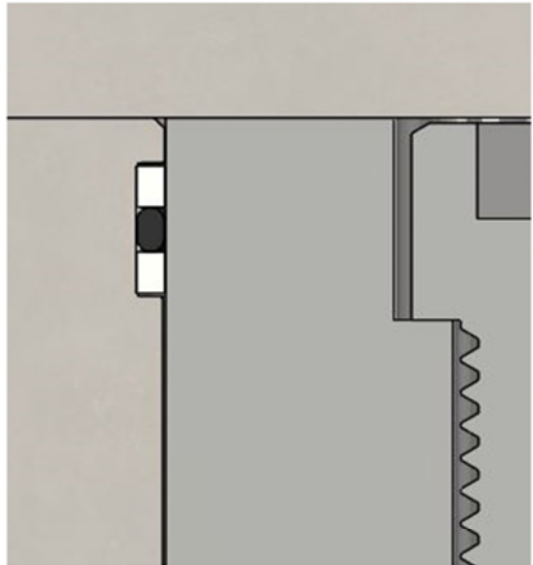


12942-3

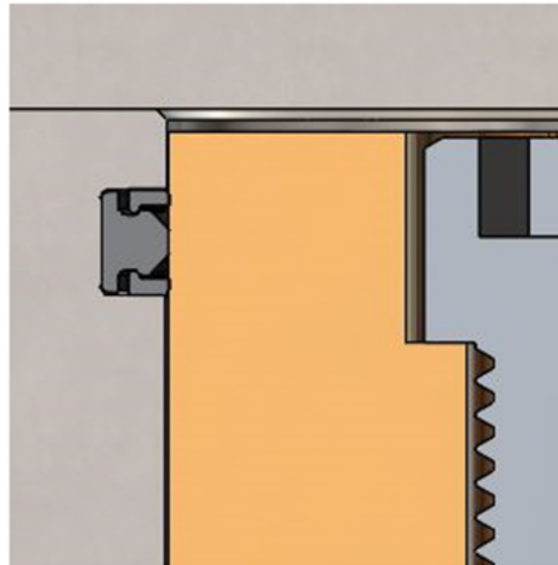


197511

Figure 4. Detail cross-section of Dynamic O-ring vs New T-seal



12942-3



197511

The new Gilmore 1" manual regulators have an identical footprint to the legacy valves listed below in Table 1. Along with purchasing a new valve, the improvements can be implemented in the legacy valves utilizing the conversion kits also listed below in Table 1.

Table 1. Affected New and Legacy 1" Regulator Part Numbers with Conversion Kit Part Numbers:

Item	Legacy Description	Legacy Valve PN	Conversion Kit PN	New Valve Description	New Valve PN
1	Valve, 1" Regulator, Hydraulic Pressure, Seal Sub Mounted	60174-8	60174-8-TC CK	Valve, Regulator, Hydraulic Pressure, Manual, 1-1/4" Seal Sub 3000/5000 psi, w/T-seal	60174-8-TC
2	Valve, 1" Regulator, Hydraulic Press, Seal Sub	60174	60174-TC CK	Valve, Regulator, Hydraulic Pressure, Manual, 1-1/4" Seal Sub 3000/5000 psi, w/T-seal	60174-TC
3	Valve, 1" Regulator, Hydraulic Press, Seal Sub	60175	60175-TC CK	Valve, Regulator, Hydraulic Pressure, Manual, 1-1/4" Seal Sub 3000/5000 psi, w/T-seal	60175-TC

Please Note: The legacy repair kits and seal kits listed below in Table 2 cannot be used interchangeably between legacy and new regulators due to changes to the plunger piston and plunger guide.

Table 2. Affected New and Legacy 1" Regulator Kit Part Numbers:

Item	Valve Description	Legacy Valve PN	Legacy Valve Repair Kit	Legacy Valve Seal Kit
1	Legacy Valve, 1" Regulator, Hydraulic Press, Seal Sub	60174-8	60174-8 RK	60174-8 SK
2	Legacy Valve, 1" Regulator, Hydraulic Press, Seal Sub	60174	60174 RK	60174 SK
3	Legacy Valve, 1" Regulator, Hydraulic Press, Seal Sub	60175	60175 RK	60175 SK
4	Legacy Valve, 1" Regulator, Hydraulic Press, Seal Sub	60174-8-TC	60174-8-TC RK	60174-8-TC SK
5	Legacy Valve, 1" Regulator, Hydraulic Press, Seal Sub	60174-TC	60174-TC RK	60174-TC SK
6	Legacy Valve, 1" Regulator, Hydraulic Press, Seal Sub	60175-TC	60175-TC RK	60175-TC SK

Product Improvement Notification

Gilmore Regulator Tungsten Carbide Improvements

Figure 5. PN 44475-TC: 3/8" Seal Sub Vent Hydraulic Pressure Regulator



Gilmore has released Tungsten Carbide shear seal trim improvements to 3/8" Manual and Hydraulic Pilot Regulators and 1" Hydraulic Pilot Regulators. The shear seal trim includes seal rings, flow ports and seal plates of the regulator providing metal-to-metal sealing.

Feature:

- » Improved shear seal trim to Tungsten Carbide material

Figure 6. PN 60173-1-TC: Cross-section of Seal Sub Mounted, Tungsten Carbide Trim, 1" Hydraulic Pilot Pressure Regulator

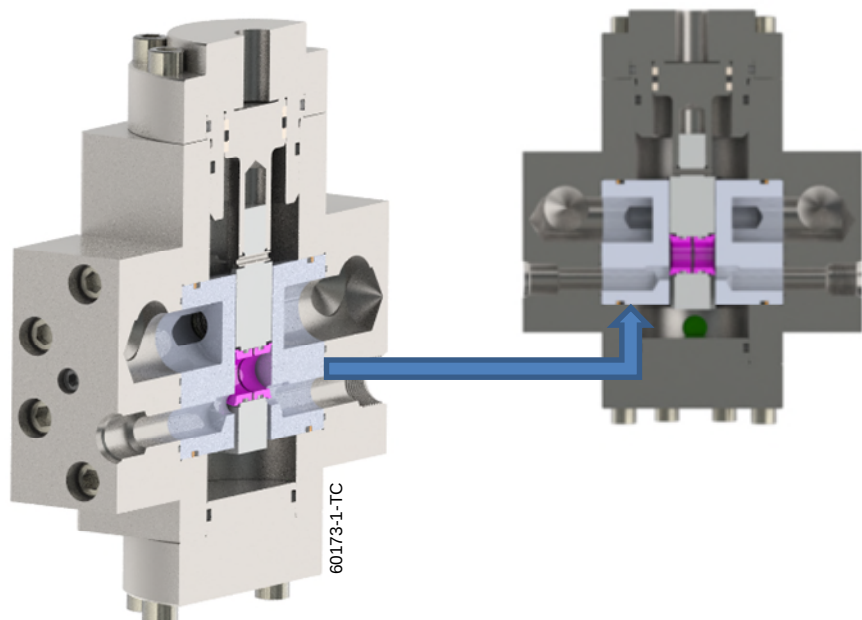


Table 3. Affected New and Legacy 3/8" Regulator Part Numbers with Conversion Kit Part Numbers:

Item	Legacy Description	Legacy Valve PN	Conversion Kit PN	New Valve Description	New Valve PN
1	Valve, 3/8" Regulator, Hydraulic Press, Seal Sub	44475	44475-TC CK	Valve, Regulator, Hydraulic Pressure, Seal Sub ½" SAE Vent	44475-TC
	Valve, 3/8" Regulator, Hydraulic Press, Seal Sub	44475-2	44475-2-TC CK	Valve, Regulator, Hydraulic Pressure, Seal Sub ¼" NPT Pilot	44475-2-TC
2	Valve, 1" Regulator, Hydraulic Press, Seal Sub	60173-1	60173-1-TC CK	Valve, Regulator, Pilot Operated, Tungsten Trim, Hydraulic Press, Seal Sub Mounted	60173-1-TC

Please Note: The legacy repair kits and seal kits listed below in Table 4 cannot be used interchangeably between legacy and new regulators.

Table 4. Affected New and Legacy 3/8" Regulator Kit Part Numbers:

Item	Valve Description	Legacy Valve PN	Legacy Valve Repair Kit	Legacy Valve Seal Kit
1	Valve, 3/8" Regulator, Hydraulic Press, Seal Sub	44475	44475 RK	44475 SK
2	Valve, 3/8" Regulator, Hydraulic Press, Seal Sub	44475-2	44475-2 RK	44475-2 SK
3	Valve, 3/8" Regulator, Hydraulic Press, Seal Sub	60173-1	60173-1 RK	60173-1 SK
4	Valve, 3/8" Regulator, Hydraulic Press, Seal Sub	44475-TC	44475-TC RK	44475-TC SK
5	Valve, 3/8" Regulator, Hydraulic Press, Seal Sub	44475-2-TC	44475-2-TC RK	44475-2-TC SK
6	Valve, 1" Regulator, Hydraulic Press, Seal Sub	60173-1-TC	60173-1-TC RK	60173-1-TC SK

Please contact Gilmore Customer Service to request quotations for these regulators and kits at Gilmore@proserv.com.

4

3

2

1

NOTES:

- 1 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
2. AN 'X' IN THE 'SK' COLUMN OF THE BOM INDICATES PARTS IN SEAL KIT 60173-1-TC SK
3. AN 'X' IN THE 'RK' COLUMN OF THE BOM INDICATES PARTS IN REPAIR KIT 60173-1-TC RK
4. AN 'X' IN THE 'MK' COLUMN OF THE BOM INDICATES PARTS IN MOUNTING KIT 60173-1-TC MK
- 5 AN 'X' IN THE 'CK' COLUMN OF THE BOM INDICATES PARTS IN CONVERSION KIT 60173-1-TC CK. THE CONVERSION TAG IS ONLY USED IN THE CONVERSION KIT.
6. VALVE ASSEMBLY CONTAINS LOT CONTROLLED PRESSURE CONTAINING SCREWS.

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
D	ECO 018653	CMJ 5-15-20	JOP 5/15/20	DM 5/15/20

PORTS

INLET:	SEAL SUB (2)	5,000 PSI
REGULATED:	SEAL SUB (1)	400/4,000 PSI
VENT:	1/2" SAE (2)	3,000 PSI
PILOT PORT:	1/2" NPTF (1)	4,000 PSI
GAGE PORT:	3/8 NPTF (1)	4,000 PSI

FLOW DATA

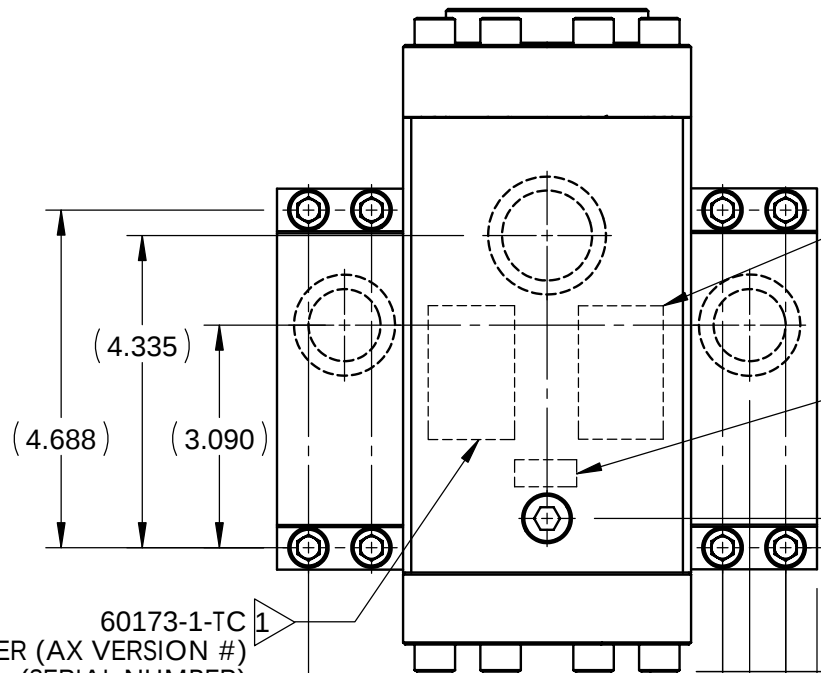
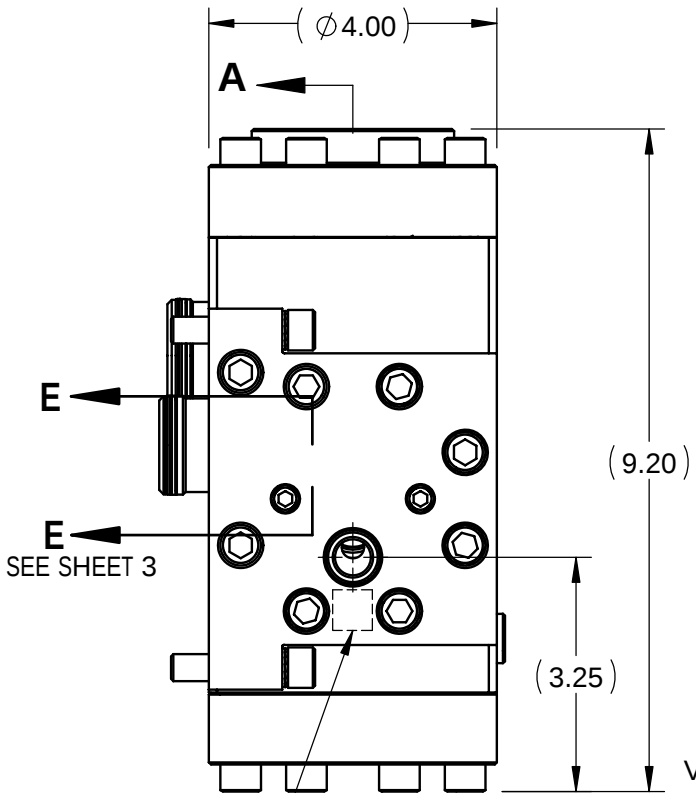
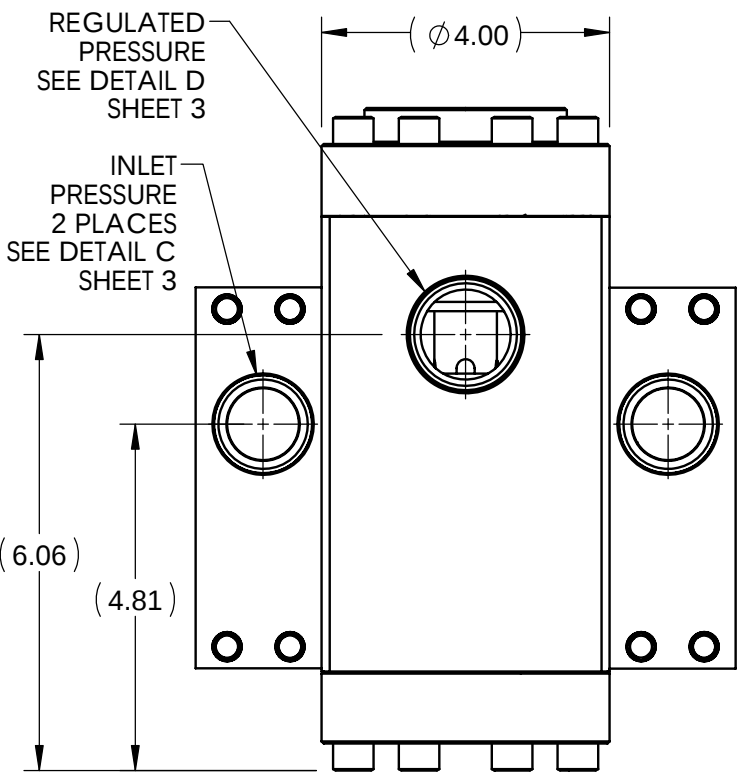
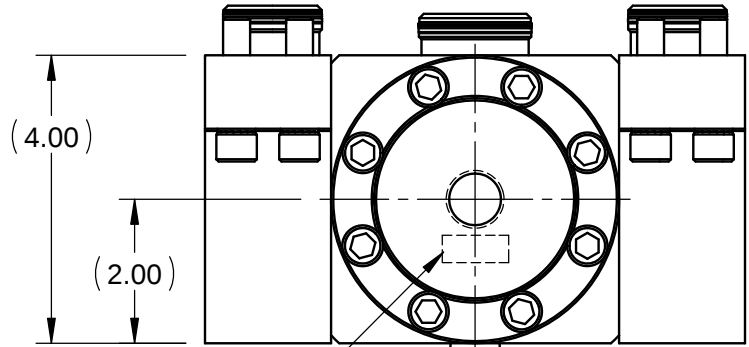
Cv (CALCULATED): SUPPLY: 18.8
VENT: 2.8

GENERAL DATA

APPROX WEIGHT: 47 LBS

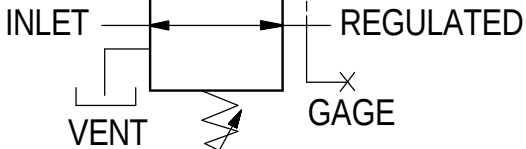
MATERIALS

A286 TP S21800
A582 T416
TUNGSTEN CARBIDE
A276 T316
A276 T304
INCONEL X-750
NITRILE
TEFLON
DELIRIN 511P
A276 T420
A564 TP 630

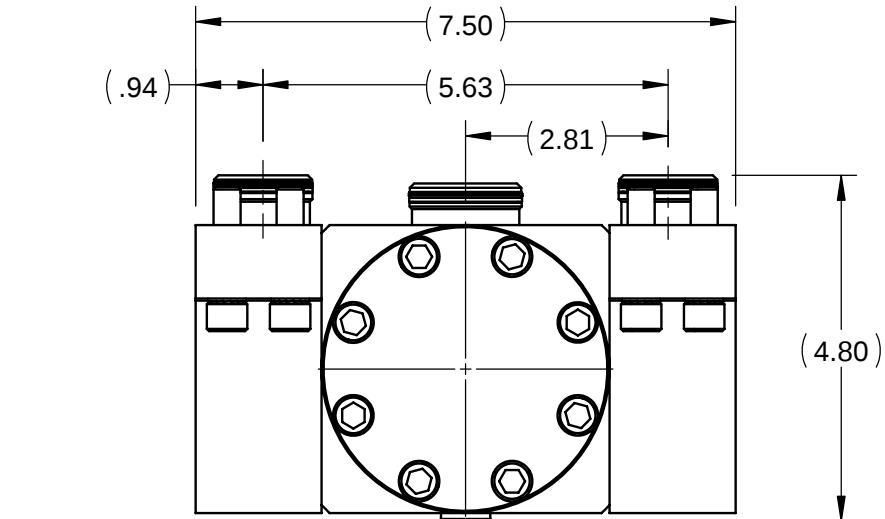


1 COMPANY NAME AND LOGO

1 3/8 NPTF GAGE



SCHEMATIC



MATERIAL:
SEE INDIV 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	JOP	DATE	06/25/19
CHECKED BY	CY	DATE	06/25/19
ENGINEER	GM	DATE	06/25/19
ERN NUMBER	02321	DATE	06/25/19

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ENGINEERING

VALVE, REGULATOR, PILOT OPERATED, TUNGSTEN TRIM, HYDRAULIC PRESSURE, SEAL SUB MOUNTED

SIZE

DWG NO

REV

B

60173-1-TC

D

SCALE 3:8

SolidWorks

SHEET 1 OF 3

4

3

2

1

4

3

2

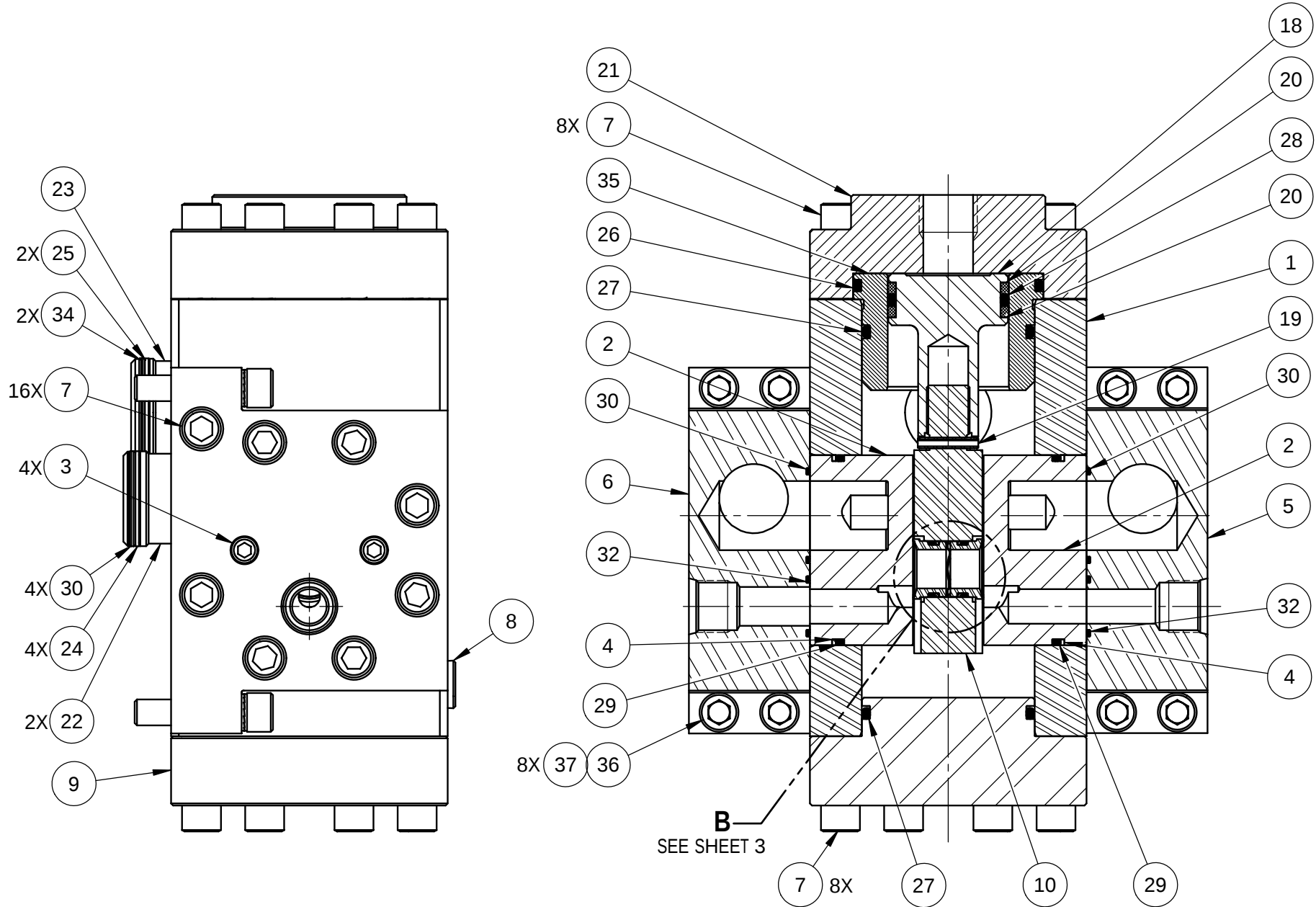
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BILL OF MATERIALS							
ITEM NO	PART NUMBER	DESCRIPTION	QTY	RK	SK	MK	CK
35	22317	PLUNGER GUIDE	1				
36	18225-001	SHCS 3/8 - 16 X 1-5/8" LG	8			X	
37	10794442-001	WASHER, NORD-LOCK, 3/8	8	X		X	X
38	25999	TAG, CONVERSION	1				X

BILL OF MATERIALS							
ITEM NO	PART NUMBER	DESCRIPTION	QTY	RK	SK	MK	CK
1	33006-18	VALVE BODY	1				
2	13057-2	FLOW PORT	2	X			X
3	18220-118S	SHCS, 1/4-20 UNC X 1-3/4 LG	4	X	X		
4	18110-130T	BACKUP RING	2	X	X		X
5	23800	FLANGE, INLET, RIGHT	1				
6	23799	FLANGE, INLET, LEFT	1				
7	18224-003	SHCS 3/8-16 UNC X 1-1/2 LG	32	X			X
8	18601-008	PIPE PLUG, 3/8"	1	X			X
9	12994	FLANGE BOTTOM	1				
10	23083	SEAL CONTAINER	1				
11	11512-2	SEAL RING	2	X			X
12	18110-005T	BACK-UP RING	2	X	X		X
13	18701-001	WAVE SPRING	1	X			X
14	11420-2	SEAL RING	4	X			X
15	18110-002T	BACKUP RING	4	X	X		X
16	12109	SPACER	2	X			X
17	11438	SPRING, COMPRESSION	2	X			X
18	22319	PLUNGER	1				
19	18510-018	SPRING PIN, Ø.156 X .875 LG	1	X			X
20	13134	BACKUP RING	2	X	X		X
21	23271	HYDRAULIC HEAD FLANGE	1				
22	12528	SEAL SUB, 1"	2			X	X
23	12966	SEAL SUB, 1-1/4"	1			X	X
24	18110-026T	BACKUP RING	4	X	X	X	X
25	18114-003T	BACKUP RING	2	X	X	X	X
26	18100-114B	O-RING	1	X	X		X
27	18100-101B	O-RING	2	X	X		X
28	18100-104B	O-RING	1	X	X		X
29	18100-051C	O-RING	2	X	X		X
30	18100-002B	O-RING	6	X	X	X	X
31	18100-009B	O-RING	2	X	X		X
32	18100-007B	O-RING	2	X	X		X
33	18100-003B	O-RING	4	X	X		X
34	18100-038B	O-RING	2	X	X	X	X

B

B



SECTION A-A

A



ENGINEERING

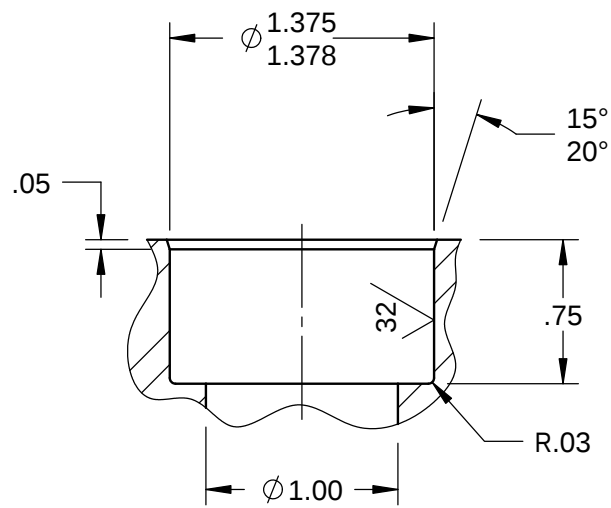
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SCALE	1:2	SHEET 2 OF 3
SolidWorks		

4

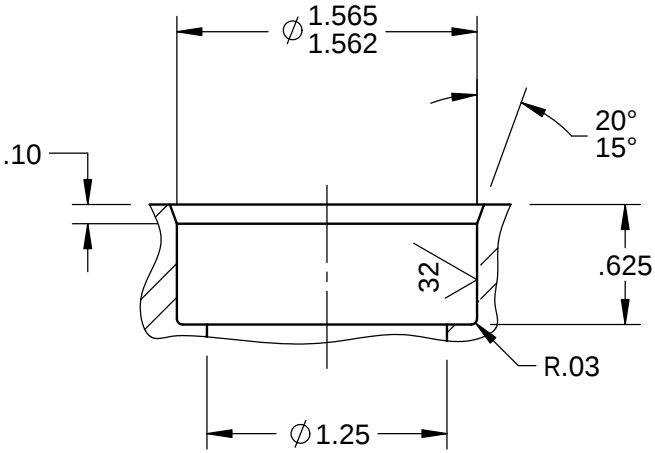
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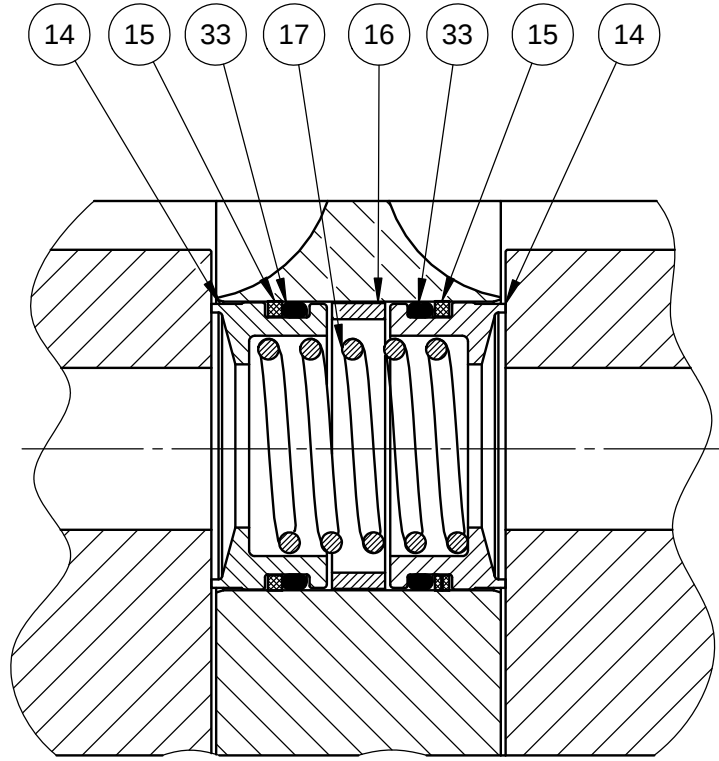
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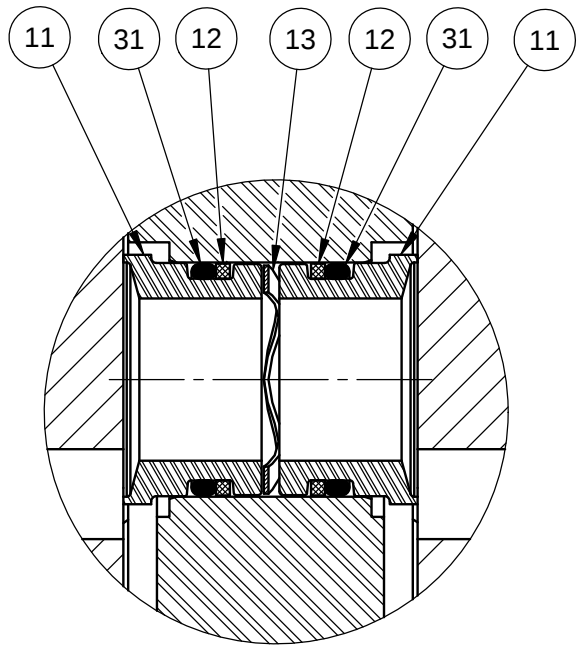
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SCALE 1 : 1
SEAL SUB
POCKET DETAIL
2 PLACES



DETAIL D
SCALE 1 : 1
SEAL SUB
POCKET DETAIL



SECTION E-E
SCALE 3 : 2
2 PLACES



DETAIL B
SCALE 3 : 2

B

B

A

A

4

3

2

1



ENGINEERING

SIZE

B

DWG NO

60173-1-TC

REV

D

SCALE

3:8

SolidWorks

SHEET 3 OF 3

4

3

2

1

A
SEE SHEET 2

REVISIONS

REV	ERN / ECO NUMBER	DRAWN	CHECKED	APPROVED
E	ECO 018653	CMJ 5-15-20	JOP 5/15/20	DM 5/15/20

PORTS

INLET: SEAL SUB (2) 5,000 PSI
REGULATED: SEAL SUB (1) 3,000 PSI
VENT: 1/2 SAE (2) AMBIENT
GAGE PORT: 3/8 NPTF (1) 3,000 PSI

FLOW DATA

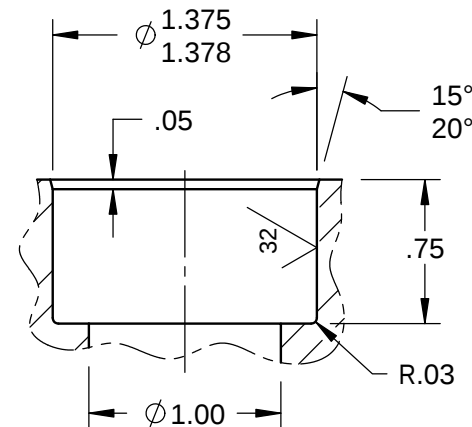
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VENT: 2.8

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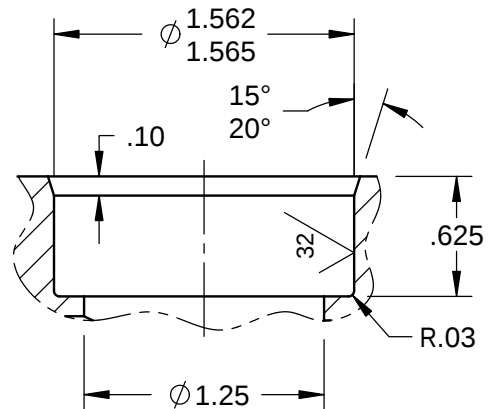
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MATERIAL:

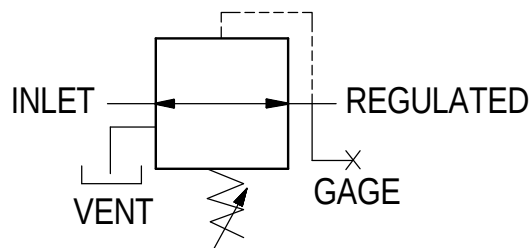
A564 TP 630 (17-4PH)
TUNGSTEN CARBIDE
A276 TP 304
BUNA-N
TEFLON
A276 TP 316/316L
A582 TP 416
A276 TP 302/304/316
A582 TP 303
A453 GR 660
A286
AMS 5699 INCONEL X-750
A313 TP 302
18-8 SS
NITRONIC 60
DELIN 511P



DETAIL C
SEAL SUB POCKET DETAIL
2 PLACES
SCALE 1:1



DETAIL D
SEAL SUB
POCKET DETAIL
SCALE 1:1



SCHEMATIC

REGULATED
PRESSURE
SEE DETAIL D

60174-8-TC
VER (AX VERSION #)
(SERIAL NO.)
5,000 PSI MWP
(DATE OF MFG)

SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

INLET
PRESSURE
2 PLACES
SEE DETAIL C

VENT
1/2" SAE
(MARK BOTH
SIDES)

COMPANY
NAME
AND LOGO

3/8 NPTF
GAGE
PORT

NOTES:

- AN 'X' DEPICTS PARTS IN REPAIR KIT 60174-8-TC RK, SEAL KIT 60174-8-TC SK, MOUNTING KIT 60174-8-TC MK AND CONVERSION KIT 60174-8-TC CK.
- FOR MK ITEM 8, QTY IS 4, REFER TO 60174-8 MK BOM.
- MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- VALVE ASSEMBLY CONTAINS LOT CONTROLLED PRESSURE CONTAINING SCREWS.
- FOR ASSEMBLY PROCEDURE REFER TO 50185. E

MATERIAL:
SEE INDIV 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: $\pm 5^\circ$

2) SURFACE TEXTURE: 63

3) CORADIAL FEATURES SHALL BE $\odot$
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	JOP	DATE	06/27/19
CHECKED BY	CY	DATE	06/27/19
ENGINEER	GM	DATE	06/27/19
ERN NUMBER	02321	DATE	06/25/19

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ENGINEERING

VALVE, REGULATOR, HYDRAULIC
PRESSURE, TUNGSTEN TRIM, SEAL
SUB MOUNTED

SIZE
B

DWG NO

60174-8-TC

REV
E

SCALE 1:3

SolidWorks

SHEET 1 OF 2

4

3

2

1

B

B

A

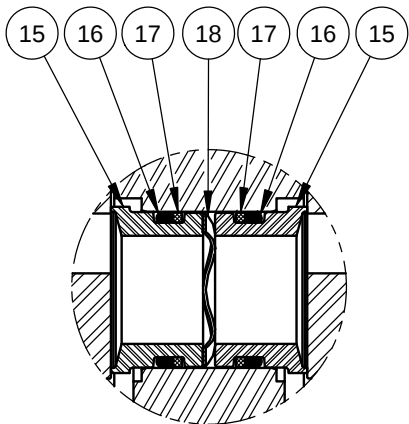
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BILL OF MATERIALS

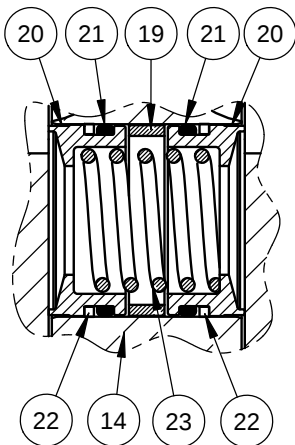
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40	12968	SPRING, COMPRESSION	1				
41	12973	SPRING GUIDE ASSEMBLY	1				
42	23796	SPRING HOUSING	1				
43	12971	SEAL PLUG	1				
44	11910	ADJUSTING SCREW	1				
45	11580	NUT, LOCK	1				
46	18100-113B	O-RING	2	X	X		X
47	11567	CAP, LOCK	1				
48	13125	SPRING, COMPRESSION	1				
49	10794442-001	WASHER, NORD-LOCK, 3/8	8	X		X	X
50	18225-001	SHCS 3/8 - 16 X 1-5/8" LG	8			X	
51	25999	TAG, CONVERSION	1				X

BILL OF MATERIALS

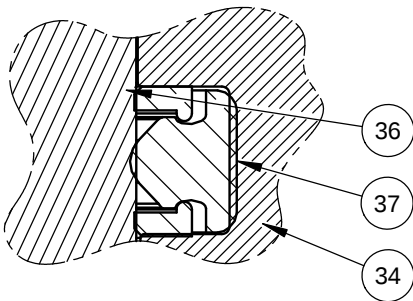
ITEM NO	PART NUMBER	DESCRIPTION	QTY	RK	SK	MK	CK
1	33134	BODY	1				
2	13057-2	FLOW PORT	2	X			X
3	18220-118S	SHCS, 1/4-20 UNC X 1-3/4 LG	4	X	X		
4	18100-051C	O-RING	2	X	X		X
5	18110-130T	BACKUP RING	2	X	X		X
6	23800	FLANGE, INLET, RIGHT	1				
7	23799	FLANGE, INLET, LEFT	1				
8	18100-002B	O-RING	6	X	X	X	X
9	18100-007B	O-RING	2	X	X		X
10	18224-003	SHCS 3/8-16 UNC X 1-1/2 LG	24				
11	18601-008	PIPE PLUG, 3/8"	1				
12	12994	FLANGE BOTTOM	1				
13	18100-101B	O-RING	1	X	X		X
14	25888	SEAL CONTAINER	1				
15	11512-2	SEAL RING	2	X			X
16	18100-009B	O-RING	2	X	X		X
17	18110-005T	BACK-UP RING	2	X	X		X
18	18701-001	WAVE SPRING	1	X			X
19	12109	SPACER	2	X			X
20	11420-2	SEAL RING	4	X			X
21	18100-003B	O-RING	4	X	X		X
22	18110-002T	BACKUP RING	4	X	X		X
23	11438	COMPRESSION SPRING	2	X			X
24	12528	SEAL SUB, 1"	2			X	
25	12966	SEAL SUB, 1-1/4"	1			X	
26	18110-026T	BACKUP RING	4	X	X	X	X
27	18100-038B	O-RING	2	X	X	X	X
28	18114-003T	BACKUP RING	2	X	X	X	X
29	12983	PLUNGER STEM	1				
30	18500-009	DOWEL PIN	1				
31	11808	RETAINER SLEEVE	1				
32	18100-022B	O-RING	1	X	X		X
33	18110-013T	BACKUP RING	1	X	X		X
34	186816	GUIDE, PLUNGER FOR T-SEAL FOR 1-1/2" OD PISTON	1				X
35	18100-099B	O-RING	1	X	X		X
36	197512	PLUNGER, PISTON, 1.500 DIA	1				X
37	188445	T-SEAL, LOCKING, ROD 1.500 PISTON OD	1	X	X		X
38	18224-002	SHCS, 3/8-16 UNC X 1.25 LG	1				
39	12970	SPRING PLATE	1				



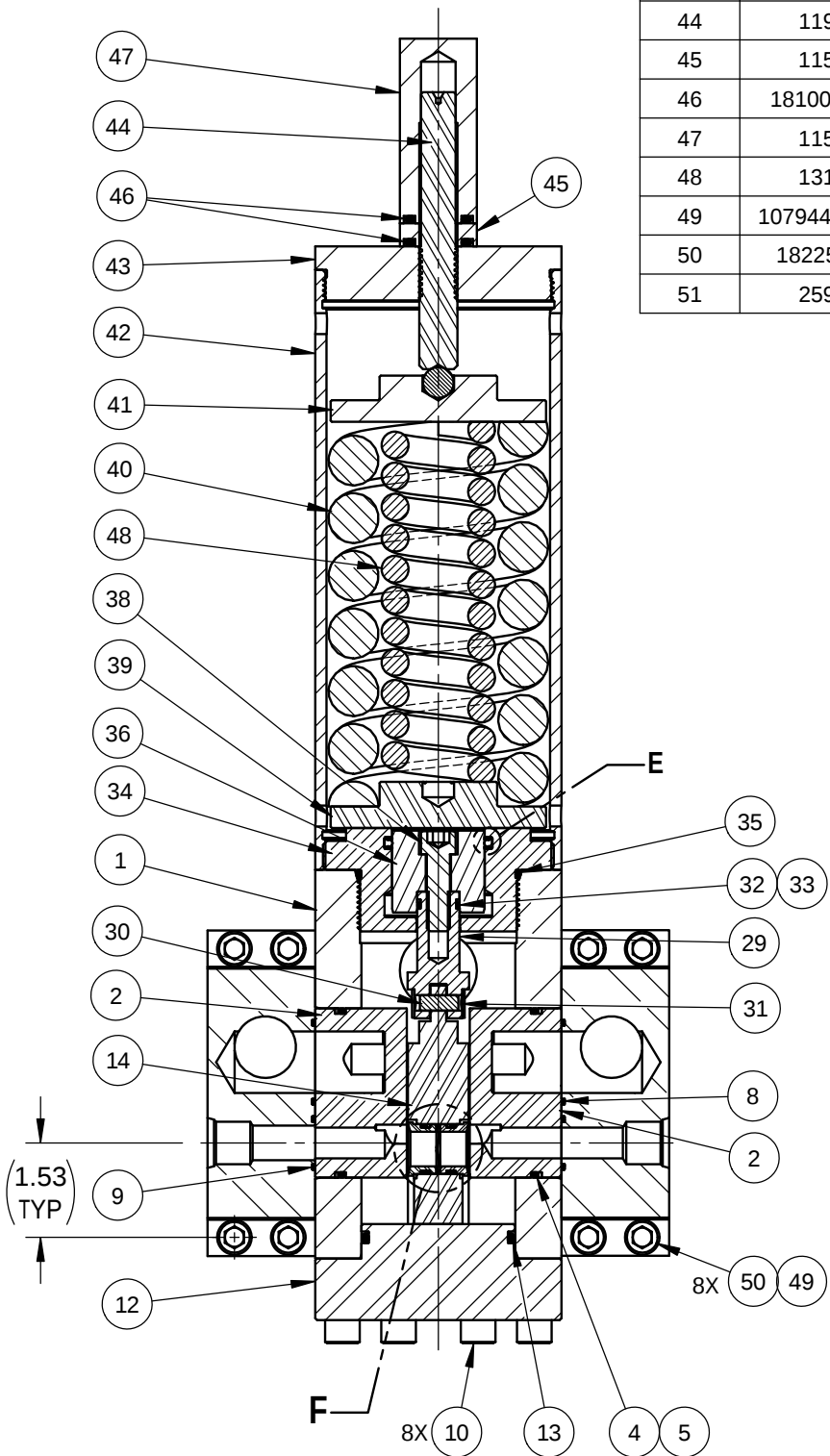
DETAIL F
SCALE 1 : 1



SECTION B-B
2 PLACES
SCALE 1 : 1



DETAIL E
SCALE 4 : 1



SECTION A-A



ENGINEERING

SIZE

DWG NO

REV

B

60174-8-TC

E

SCALE

1:3

SolidWorks

SHEET 2 OF 2

4

3

2

1

A
SEE SHEET 3

REVISIONS

REV	ERN / ECO NUMBER	DRAWN	CHECKED	APPROVED
D	ECO 018653	CMCJ 5-15-20	JOP 5/15/20	DM 5/15/20

PORTS

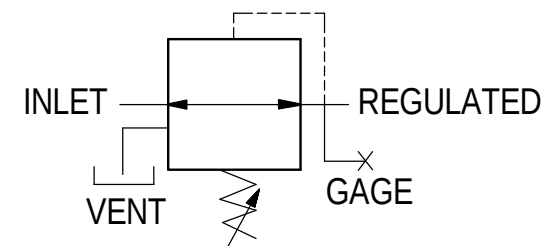
INLET: SEAL SUB (1) 5,000 PSI
REGULATED: SEAL SUB (1) 3,000 PSI
VENT: 1/2 SAE (1) AMBIENT
GAGE PORT: 3/8 NPTF (1) 3,000 PSI

FLOW DATA

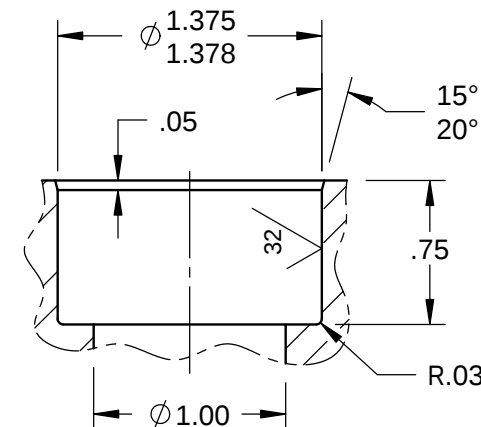
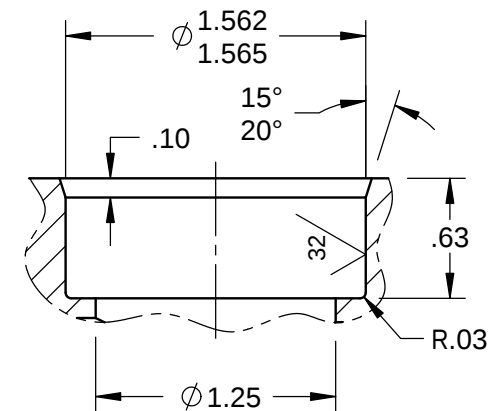
Cv (CALCULATED): SUPPLY: 9.4
VENT: 1.4

GENERAL DATA

APPROX WEIGHT: 72 LBS.



SCHEMATIC

DETAIL C
SEAL SUB POCKET DETAILDETAIL D
SEAL SUB POCKET DETAILREGULATED
PRESSURE
SEE DETAIL D60174-TC
VER (AX VERSION #)
(SERIAL NO.)
5,000 PSI MWP
(DATE OF MFG)SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

29 28

26

27 9

25

INLET
PRESSURE
SEE DETAIL C

B

SEE SHEET 3

8X
11
(BOTH SIDES)2X
4
(BOTH SIDES)

12

3 VENT
1/2" SAE

(.53 TYP)

(2.00)

(Ø 4.00)

(4.688)

(3.090)

(2X .50)

(2X .875)

(7.50)

(21.20)

COMPANY
NAME
AND LOGO

BLANK PORT

3/8 NPTF
GAGE
PORT

(1.72) (2.13)

(2.813) (3.313) (.44)

(6.626)

NOTES:

- AN 'X' DEPICTS PARTS IN REPAIR KIT 60174-TC RK, SEAL KIT 60174-TC SK, MOUNTING KIT 60174-TC MK AND CONVERSION KIT 60174-TC CK.
- FOR MK ITEM 9, QTY IS 2, REFER TO 60174-TC MK BOM.
- MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- VALVE ASSEMBLY CONTAINS LOT CONTROLLED PRESSURE CONTAINING SCREWS.
- FOR ASSEMBLY PROCEDURE REFER TO 50185

MATERIAL:
SEE INDIV 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	JOP	DATE	12/04/19
CHECKED BY	CY	DATE	12/05/19
ENGINEER	AJP	DATE	12/05/19
ERN NUMBER	02367	DATE	11/20/19

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ENGINEERING

VALVE, REGULATOR, HYDRAULIC
PRESSURE, TUNGSTEN TRIM, SEAL SUB
MOUNTED, 3000/5000 PSI, INLET LEFT

SIZE
B

DWG NO

60174-TC

REV
D

SCALE 1:3

SolidWorks

SHEET 1 OF 3

4

3

2

1

4

3

2

1

BILL OF MATERIALS								
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK	SK	MK	CK
1	33134	BODY	A564 TP 630 (17-4 PH)	1				
2	13057-2	FLOW PORT	TUNGSTEN CARBIDE	1	X			X
3	13056-2	PLATE, BLIND	TUNGSTEN CARBIDE	1	X			X
4	18220-118S	SHCS, 1/4-20 UNC X 1-3/4 LG	18-8 SS	4	X	X		
5	18100-051C	O-RING	BUNA-N	2	X	X		X
6	18110-130T	BACKUP RING	TEFLON	2	X	X		X
7	23799	FLANGE, INLET, LEFT	A276 TP 316	1				
8	23819	FLANGE, BLIND, RIGHT	A276 TP 316	1				
9	18100-002B	O-RING	BUNA-N	3	X	X	X	X
10	18100-007B	O-RING	BUNA-N	1	X	X		X
11	18224-003	SHCS 3/8-16 UNC X 1-1/2 LG	A286 GR 660	24				
12	18601-008	PIPE PLUG, 3/8" NPT	316 SS	1				
13	12994	FLANGE BOTTOM	A276 TP 316	1				
14	18100-101B	O-RING	BUNA-N	1	X	X		X
15	25888	SEAL CONTAINER	A582 TP 416	1				
16	11512-2	SEAL RING	TUNGSTEN CARBIDE	2	X			X
17	18100-009B	O-RING	BUNA-N	2	X	X		X
18	18110-005T	BACKUP RING	TEFLON	2	X	X		X
19	18701-001	WAVE SPRING	INCONEL X-750	1	X			X
20	12109	SPACER	A276 TP 302/304/316/316L	2	X			X
21	11420-2	SEAL RING	TUNGSTEN CARBIDE	4	X			X
22	18100-003B	O-RING	BUNA-N	4	X	X		X
23	18110-002T	BACKUP RING	TEFLON	4	X	X		X
24	11438	COMPRESSION SPRING	A313 TP 302	2	X			X
25	12528	SEAL SUB, 1"	A564 TP 630 (17-4PH)	1			X	
26	12966	SEAL SUB, 1-1/4"	A564 TP 630 (17-4PH)	1			X	
27	18110-026T	BACKUP RING	TEFLON	2	X	X	X	X
28	18100-038B	O-RING	BUNA-N	2	X	X	X	X
29	18114-003T	BACKUP RING	TEFLON	2	X	X	X	X
30	12983	PLUNGER STEM	A564 TP 630 (17-4PH)	1				
31	18500-009	DOWEL PIN	18-8 SS	1				
32	11808	RETAINER SLEEVE	A564 TP 630 (17-4 PH)	1				
33	18100-022B	O-RING	BUNA-N	1	X	X		X
34	18110-013T	BACKUP RING	TEFLON	1	X	X		X
35	187098	GUIDE, PLUNGER FOR T-SEAL FOR 1" OD PISTON	A276 TP S21800 NITRONIC 60	1				X
36	18100-099B	O-RING	BUNA-N	1	X	X		X
37	197511	PLUNGER, PISTON, 1.000 DIA	NICKEL ALUMINUM BRZ UNS C63000	1				X
38	188446	T-SEAL, LOCKING, ROD 1" PISTON OD	SEE VENDOR INFO	1	X	X		X

BILL OF MATERIALS								
ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK	SK	MK	CK
39	18224-002	SHCS, 3/8-16 UNC X 1.25 LG	A286 GR 660	1				
40	12970	SPRING PLATE	A276 TP 316	1				
41	12968	SPRING, COMPRESSION	A313 TP 316	1				
42	12973	SPRING GUIDE ASSEMBLY	A276 TP 302/304/316	1				
43	23796	SPRING HOUSING	A276 TP 304	1				
44	12971	SEAL PLUG	A276 TP 316	1				
45	11910	ADJUSTING SCREW	A564 TP 630 (17-4 PH)	1				
46	11580	NUT, LOCK	A276 TP 316	1				
47	18100-113B	O-RING	BUNA-N	2	X	X		X
48	11567	CAP, LOCK	A276 TP 316	1				
49	10794442-001	WASHER, NORD-LOCK, 3/8	254 SMO	8	X		X	X
50	18225-001	SHCS 3/8 - 16 X 1-5/8" LG	A286	8			X	
51	25999	TAG, CONVERSION	STAINLESS STEEL	1				X

 Gilmore a pro/enr company		ENGINEERING	
SIZE B	DWG NO 60174-TC		REV D
SCALE	1:8	SolidWorks	SHEET 2 OF 3

4

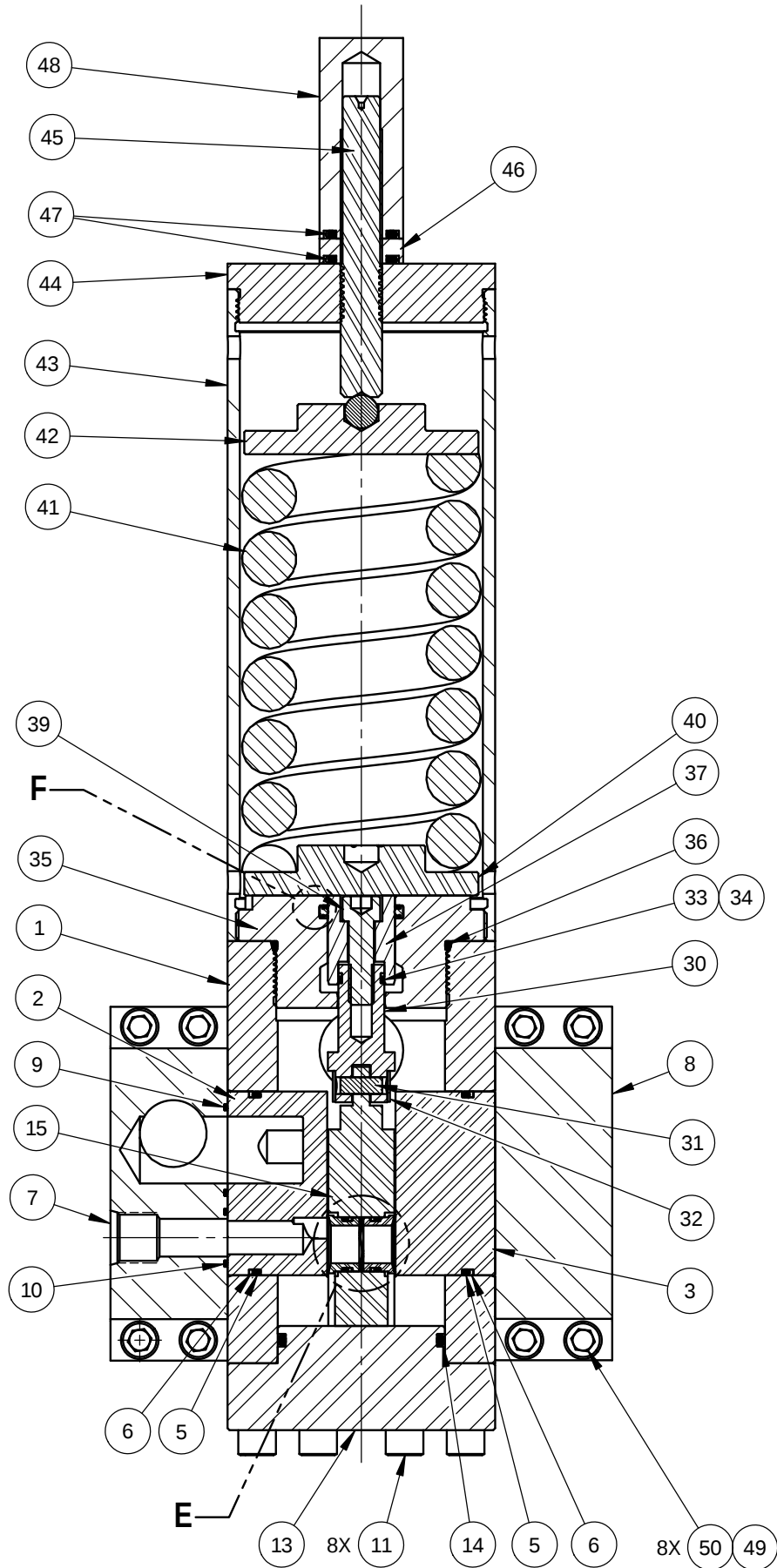
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2

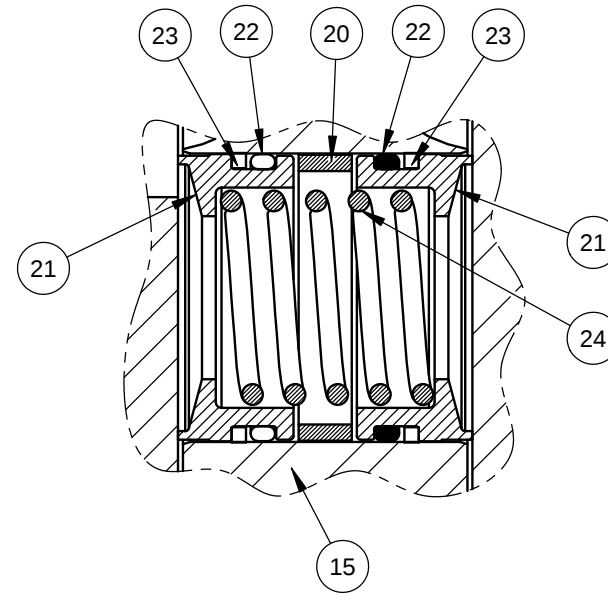
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B

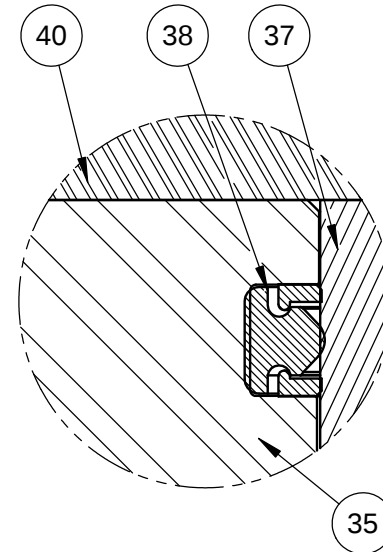
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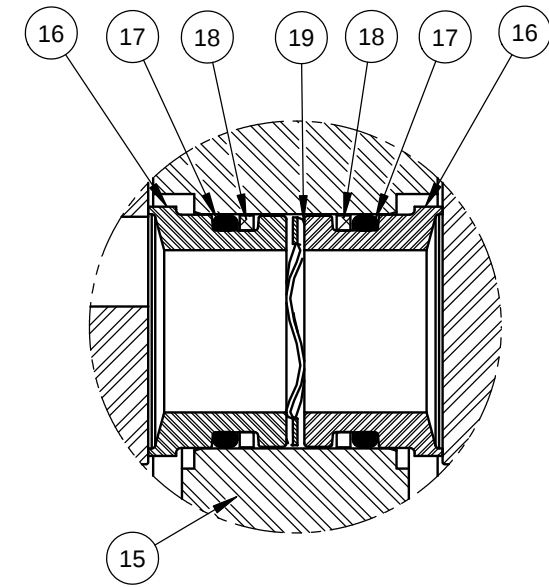
SECTION A-A



SECTION B-B
2 PLACES



DETAIL F



DETAIL E

 Gilmore ENGINEERING a pro/erv company			
SIZE B	DWG NO 60174-TC	REV D	
SCALE 1:3	SolidWorks	SHEET 3 OF 3	

4

3

2

1

A
SEE SHEET 3

REVISIONS

REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
E	ECO 018915	CMJ 5-26-20	JOP 5/26/20	DM 5/26/20

PORTS

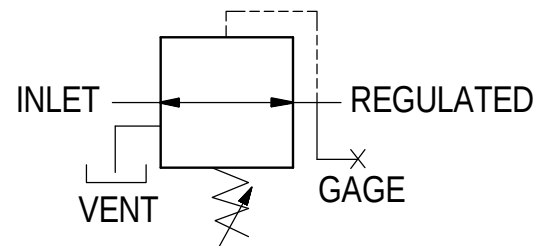
INLET: SEAL SUB (1) 5,000 PSI
REGULATED: SEAL SUB (1) 3,000 PSI
VENT: 1/2 SAE (1) AMBIENT
GAGE PORT: 3/8 NPTF (1) 3,000 PSI

FLOW DATA

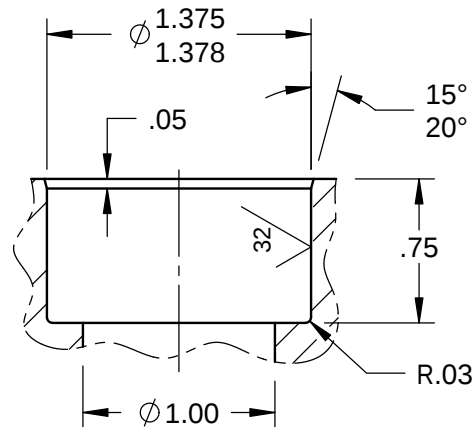
Cv (CALCULATED): SUPPLY: 9.4
VENT: 1.4

GENERAL DATA

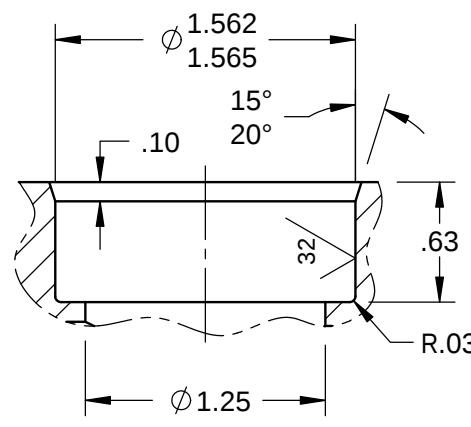
APPROX WEIGHT: 72 LBS.



SCHEMATIC



**DETAIL C
SEAL SUB POCKET DETAIL**



**DETAIL D
SEAL SUB
POCKET DETAIL**

REGULATED
PRESSURE
SEE DETAIL D

60175-TC
VER (AX VERSION #)
(SERIAL NO.)
5,000 PSI MWP
(DATE OF MFG)

SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED

29 28
26
27 9

8X 11
(BOTH SIDES)

2X 4
(BOTH SIDES)

INLET
PRESSURE
SEE DETAIL C

SEE SHEET 3

3/8 NPTF
GAGE
PORT

COMPANY
NAME
AND LOGO

VENT
1/2" SAE

(.53 TYP)

(2.00)

(2X .875)

(2.81)

(3.313)

(.44)

(6.626)

(1.72)

(2.13)

(4.688)

(4.335)

(7.50)

(21.20)

NOTES:

- AN 'X' DEPICTS PARTS IN REPAIR KIT 60175-TC RK, SEAL KIT 60175-TC SK, MOUNTING KIT 60175-TC MK AND CONVERSION KIT 60175-TC CK.
- FOR MK ITEM 9, QTY IS 2, REFER TO 60175-TC MK BOM.
- MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
- VALVE ASSEMBLY CONTAINS LOT CONTROLLED PRESSURE CONTAINING SCREWS.
- FOR ASSEMBLY PROCEDURE REFER TO 50185.

MATERIAL:
SEE INDIV PARTS IN BOM

CONDITION:

TREATMENT:

PROCEDURE NUMBER:

5

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

1) TOLERANCES: .X: $\pm .1$
.XX: $\pm .01$
.XXX: $\pm .005$
ANGLES: $\pm 5^\circ$

2) SURFACE TEXTURE: 63

3) CORADIAL FEATURES SHALL BE C
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	JOP	DATE	12/04/19
CHECKED BY	CY	DATE	12/05/19
ENGINEER	AJP	DATE	12/05/19
ERN NUMBER	02367	DATE	11/20/19

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ENGINEERING

**VALVE, REGULATOR, HYDRAULIC
PRESSURE, TUNGSTEN TRIM, SEAL SUB
MOUNTED, 3000/5000 PSI, INLET RIGHT**

SIZE
B

DWG NO

60175-TC

REV
E

SCALE 1:3

SolidWorks

SHEET 1 OF 3

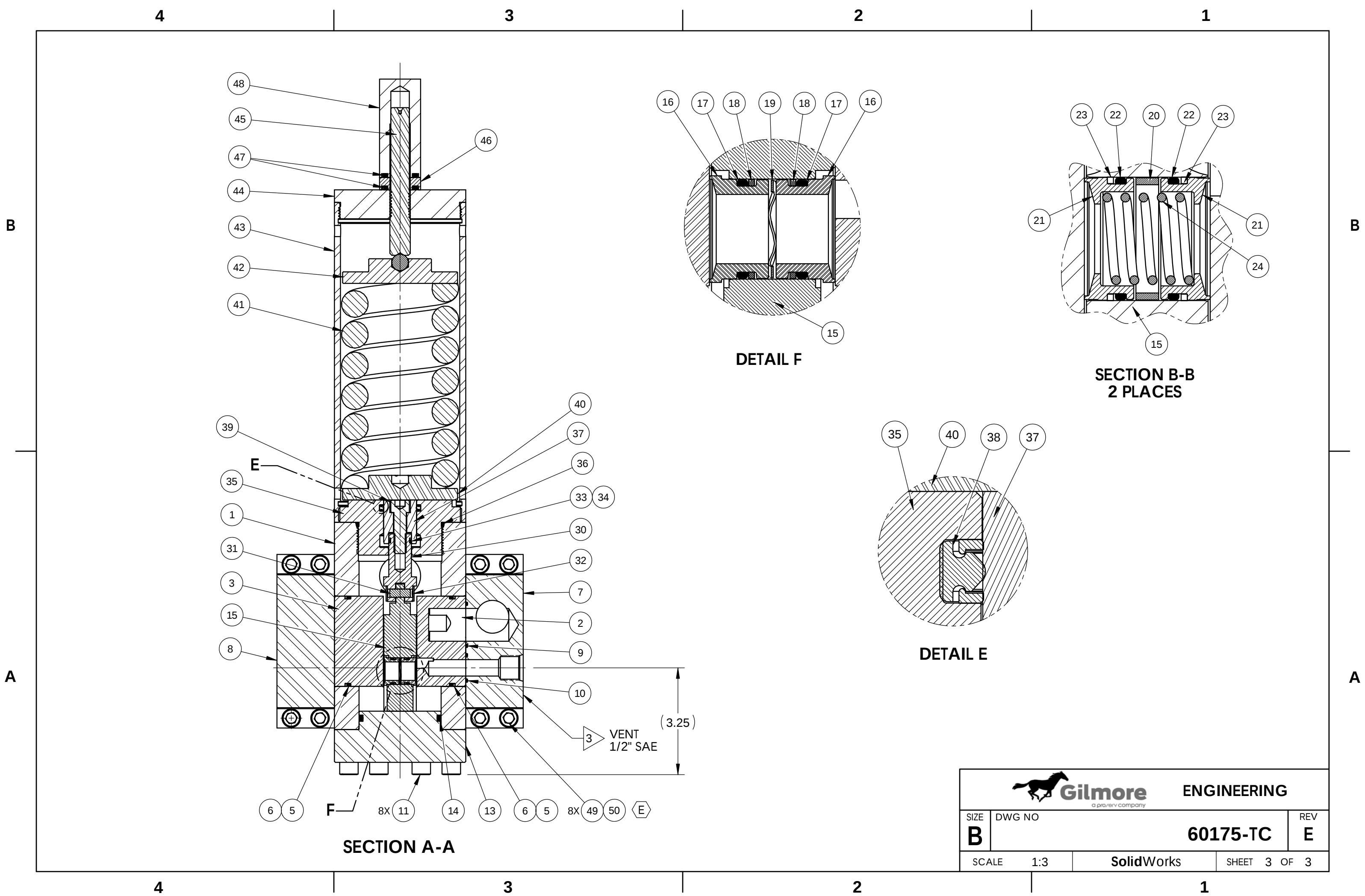
4

3

2

1

4				3					2				1							
B	BILL OF MATERIALS									BILL OF MATERIALS									B	
	ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK	SK	MK	CK	ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK	SK	MK	CK		
	1	33134	BODY	A564 TP 630 (17-4 PH)	1					39	18224-002	SHCS, 3/8-16 UNC X 1.25 LG	A286 GR 660	1						
	2	13057-2	FLOW PORT	TUNGSTEN CARBIDE	1	X			X	40	12970	SPRING PLATE	A276 TP 316	1						
	3	13056-2	PLATE, BLIND	TUNGSTEN CARBIDE	1	X			X	41	12968	SPRING, COMPRESSION	A313 TP 316	1						
	4	18220-118S	SHCS, 1/4-20 UNC X 1-3/4 LG	18-8 SS	4	X	X			42	12973	SPRING GUIDE ASSEMBLY	A276 TP 302/304/316	1						
	5	18100-051C	O-RING	BUNA-N	2	X	X		X	43	23796	SPRING HOUSING	A276 TP 304	1						
	6	18110-130T	BACKUP RING	TEFLON	2	X	X		X	44	12971	SEAL PLUG	A276 TP 316	1						
	7	23800	FLANGE, INLET, RIGHT	A276 TP 316	1					45	11910	ADJUSTING SCREW	A564 TP 630 (17-4 PH)	1						
	8	23820	FLANGE, BLIND, LEFT	A276 TP 316	1					46	11580	NUT, LOCK	A276 TP 316	1						
	9	18100-002B	O-RING	BUNA-N	3	X	X	X	X	47	18100-113B	O-RING	BUNA-N	2	X	X		X		
	10	18100-007B	O-RING	BUNA-N	1	X	X		X	48	11567	CAP, LOCK	A276 TP 316	1						
	11	18224-003	SHCS 3/8-16 UNC X 1-1/2 LG	A286 GR 660	24					49	18225-001	SHCS 3/8 - 16 X 1-5/8" LG	A286	8			X			
	12	18601-008	PIPE PLUG, 3/8" NPT	316 SS	1					50	10794442-001	WASHER, NORD-LOCK, 3/8	254 SMO	8	X		X	X		
	13	12994	FLANGE BOTTOM	A276 TP 316	1					51	25999	TAG, CONVERSION	STAINLESS STEEL	1				X		
	14	18100-101B	O-RING	BUNA-N	1	X	X		X											
	15	25888	SEAL CONTAINER	A582 TP 416	1															
	16	11512-2	SEAL RING	TUNGSTEN CARBIDE	2	X			X											
	17	18100-009B	O-RING	BUNA-N	2	X	X		X											
	18	18110-005T	BACK-UP RING	TEFLON	2	X	X		X											
	19	18701-001	WAVE SPRING	INCONEL X-750	1	X			X											
	20	12109	SPACER	A276 TP 302/304/316/316L A582 TP 303	2	X			X											
	21	11420-2	SEAL RING	TUNGSTEN CARBIDE	4	X			X											
	22	18100-003B	O-RING	BUNA-N	4	X	X		X											
	23	18110-002T	BACKUP RING	TEFLON	4	X	X		X											
	24	11438	COMPRESSION SPRING	A313 TP 302	2	X			X											
	25	12528	SEAL SUB, 1"	A564 TP 630 (17-4PH)	1			X												
	26	12966	SEAL SUB, 1-1/4"	A564 TP 630 (17-4 PH)	1			X												
	27	18110-026T	BACKUP RING	TEFLON	2	X	X	X	X											
	28	18100-038B	O-RING	BUNA-N	2	X	X	X	X											
	29	18114-003T	BACKUP RING	TEFLON	2	X	X	X	X											
	30	12983	PLUNGER STEM	A564 TP 630 (17-4PH)	1															
	31	18500-009	DOWEL PIN	18-8 SS	1															
	32	11808	RETAINER SLEEVE	A564 TP 630 (17-4 PH)	1															
	33	18100-022B	O-RING	BUNA-N	1	X	X		X											
	34	18110-013T	BACKUP RING	TEFLON	1	X	X		X											
	A	35	187098	GUIDE, PLUNGER FOR T-SEAL FOR 1" OD PISTON	A276 TP S21800 NITRONIC 60	1				X										
		36	18100-099B	O-RING	BUNA-N	1	X	X		X										
37		197511	PLUNGER, PISTON, 1.000 DIA	NICKEL ALUMINUM BRZ UNS C63000	1				X											
38		188446	T-SEAL, LOCKING, ROD 1" PISTON OD	SEE VENDOR INFO	1	X	X		X											
4				3					2				1							
				</																



- NOTES:
1. LOCATE SEAL SUB POCKETS AND MOUNTING SCREW HOLES WITHIN .010 OF TRUE POSITION.
 2. "X" DEPICTS PARTS IN REPAIR KIT 44475-TC RK, SEAL KIT 44475-TC SK, MOUNTING KIT 44475-TC MK AND CONVERSION KIT 44475-TC CK
 - 3 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
 - 4 REFER TO ASSEMBLY PROCEDURE: 50006.

REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02328	<i>[Signature]</i> 7/16/19	<i>[Signature]</i> 7-16-19	<i>[Signature]</i> 7/16/19

PORTS

SUPPLY:	SEAL SUB (1)	5,000 PSI
REGULATED:	SEAL SUB (1)	3,000 PSI
VENT:	1/2" SAE	AMBIENT

FLOW DATA

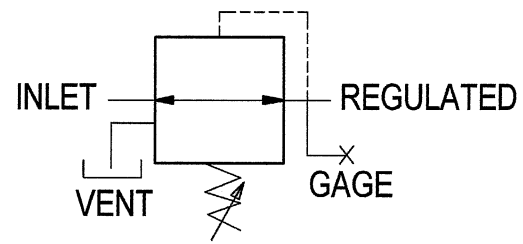
Cv (CALCULATED): SUPPLY: .53
VENT: .53

GENERAL DATA

APPROX WEIGHT: 47 LBS.

MATERIAL:

A582 TP 303 (303 SS)
ASTM B16 C36000
A582 TP 416 (416 SS)
TUNGSTEN CARBIDE
BUNA-N
TEFLON
F593 GR 2 COND A (316 SS)
LC - 035D - 3 SS
AISI 420 (420 SS)
A276 TP 304/A582 TP 303
(304 SS/303 SS)
A276 TP 316 (316 SS)
A276 TP 302/304/316
A582 TP 303/302
(302/303/304/316 SS)
18-8 SS, F593 ALLOY GROUP 1
(AISI 316 SS)



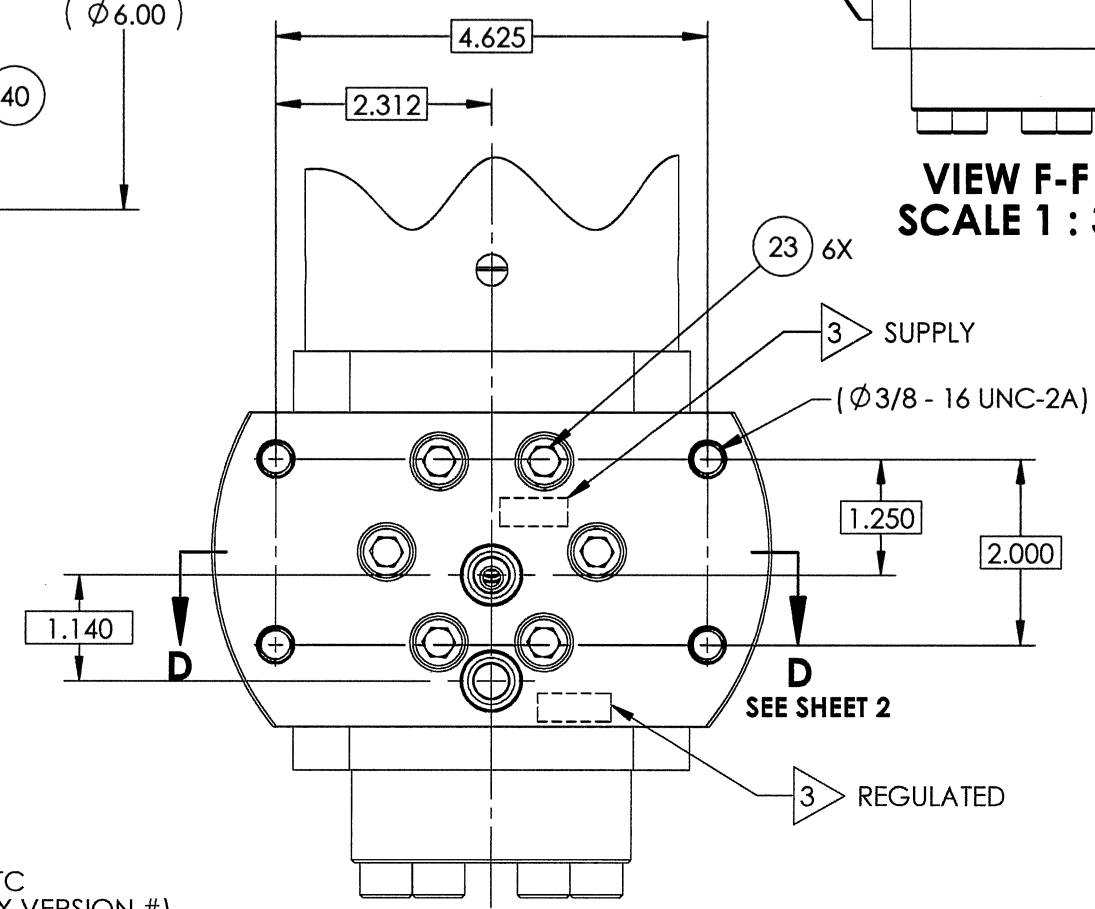
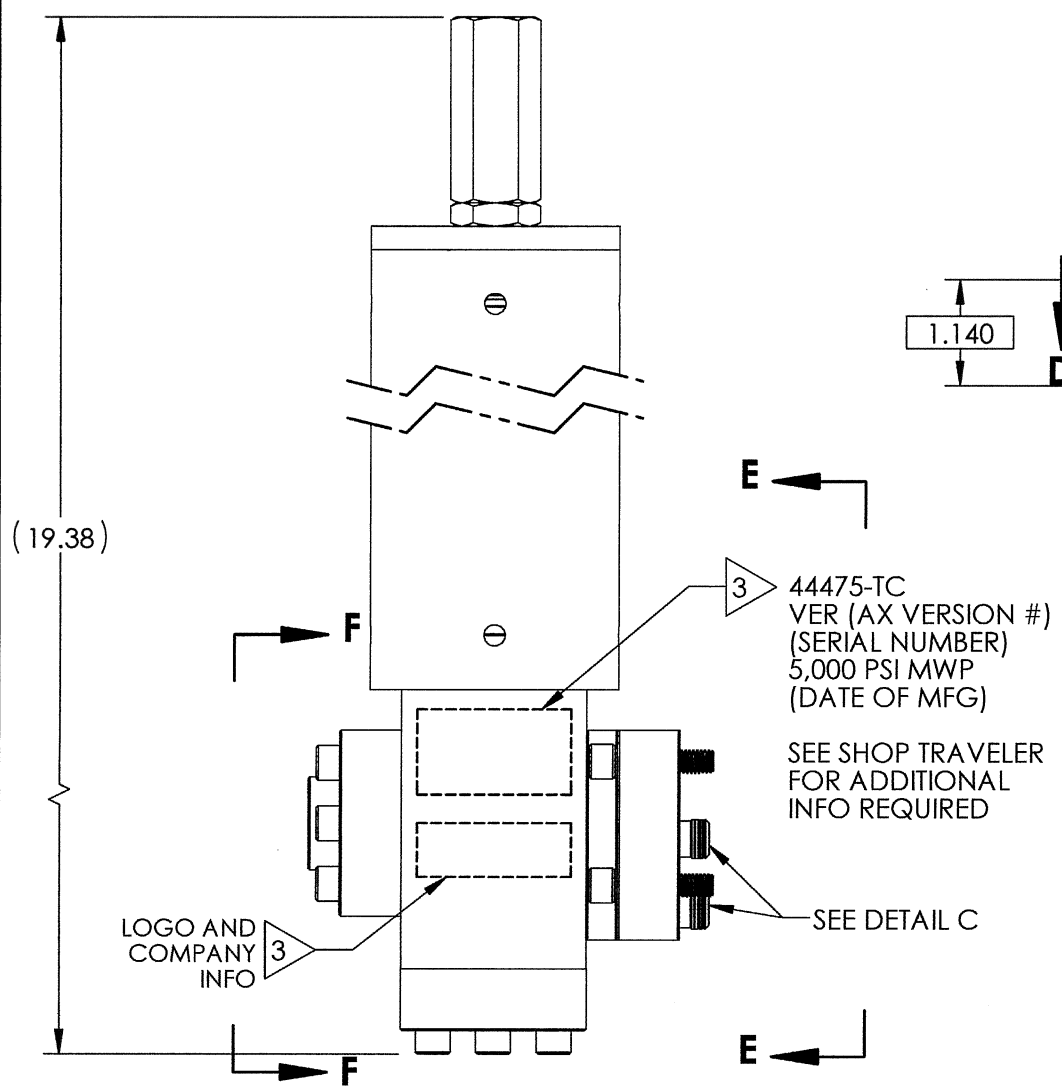
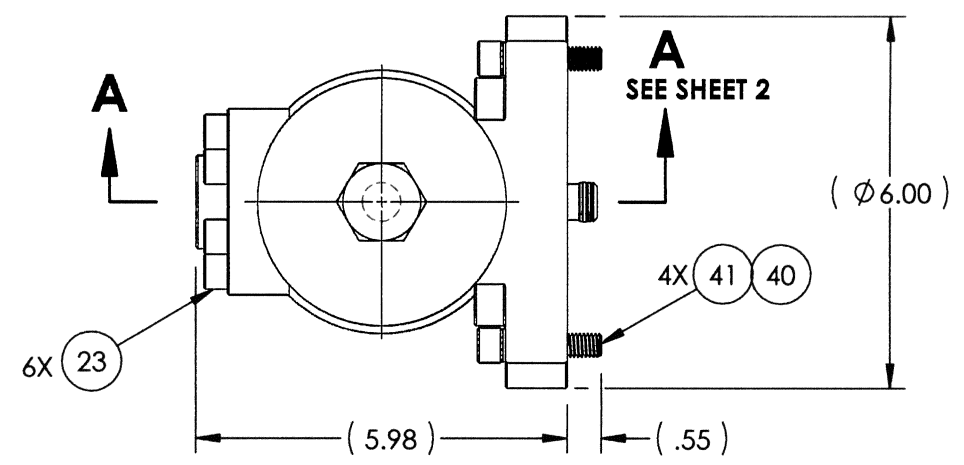
SCHEMATIC

PATENT NO. 3,917,220

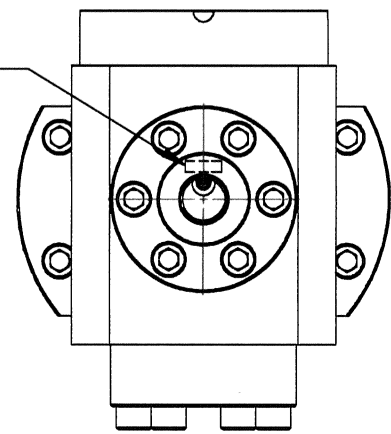
proserv *[Gilmore logo]*

**REGULATOR, HYDRAULIC
PRESSURE, 3/8" SEAL SUB, 1/2" SAE
VENT, 3000/5000 PSI**

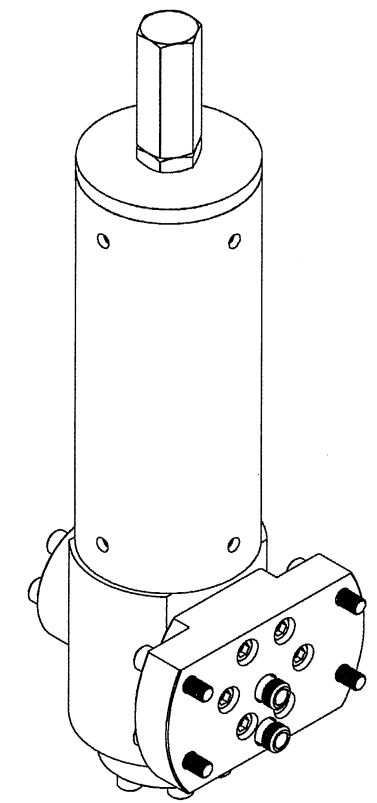
SIZE	DWG NO	REV
B	44475-TC	A
SCALE 9:16	SolidWorks	SHEET 1 OF 2



VIEW E-E



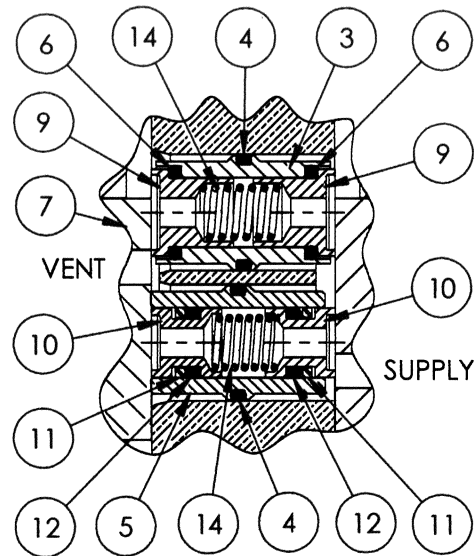
**VIEW F-F
SCALE 1 : 3**



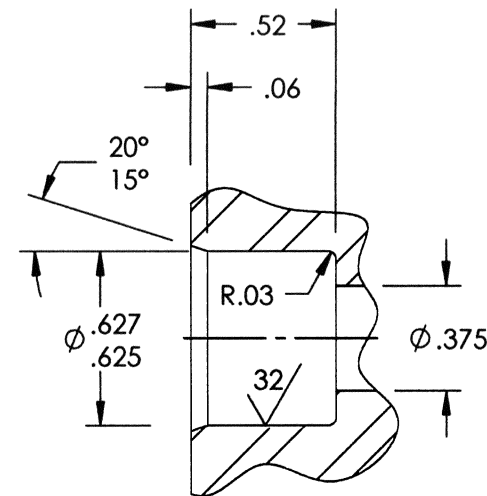
MATERIAL: SEE INDIV BOM ITEMS	DIMENSIONS AND TOLERANCES ARE IN INCHES PER ASME Y14.5M-1994. UNLESS OTHERWISE SPECIFIED:	APPROVAL DRAWN BY <i>[Signature]</i> DATE 7/16/19
CONDITION:	1) TOLERANCES: .X: ±.1 .XX: ±.01 .XXX: ±.005 ANGLES: ±.5°	CHECKED BY <i>[Signature]</i> DATE 7-16-19
TREATMENT:	2) SURFACE TEXTURE: 63	ENGINEER <i>[Signature]</i> DATE 7/16/19
PROCEDURE NUMBER: 4	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°	ERN NUMBER 02328 DATE 05/17/19
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.		

ITEM NO	PART NUMBER	DESCRIPTION	QTY	RK	SK	MK	CK
40	10794442-001	WASHER, NORD-LOCK, 3/8	4	X		X	X
41	18225-001	SHCS 3/8 - 16 X 1-5/8" LG	4				
42	25999	TAG, CONVERSION	1				X

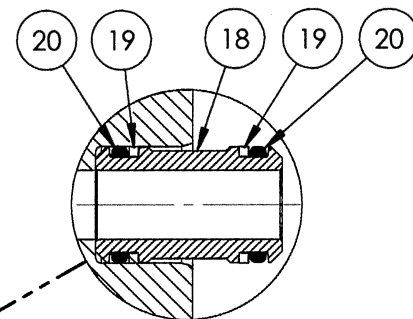
ITEM NO	PART NUMBER	DESCRIPTION	QTY	RK	SK	MK	CK
1	33010-17	BODY	1				
2	11599	SEAL CONTAINER	1	X			X
3	11662	SEAL CAGE, OUTLET	1	X			X
4	18100-013W	O-RING	2	X	X		X
5	11661	SEAL CAGE, INLET	1	X			X
6	18100-004B	O-RING	2	X	X		X
7	12573-1	FLOW PORT, VENT	2	X			X
8	18100-012B	O-RING	2	X	X		X
9	11592-2	HYDRO SEAL, VENT	2	X			X
10	11593-3	HYDRO SEAL, SUPPLY	2	X			X
11	18110-006T	BACKUP RING	2	X	X		X
12	18100-008B	O-RING	2	X	X		X
13	18221-006G	SHCS 8-32 X 5/8	4	X	X		X
14	11600	SPRING, COMPRESSION	2	X			X
15	18510-006	SPRING PIN, 1/8" X 1/2" LG	2				
16	23805	SUB PLATE FLANGE	1				
17	12575	FLOW PLATE FLANGE	1				
18	12974	SEAL SUB, 3/8"	2			X	
19	18110-004T	BACKUP RING	4	X	X	X	X
20	18100-006B	O-RING	7	X	X	X	X
21	11598	BOTTOM FLANGE	1				
22	18100-107B	O-RING	1	X	X		X
23	18220-002S	SHCS 3/8-16 UNC x 1-1/2	18				
24	18100-011B	O-RING	4	X	X		X
25	18100-003B	O-RING	1	X	X		X
26	18110-002T	BACKUP RING	2	X	X		X
27	12941	PLUNGER GUIDE	1				
28	12973	SPRING GUIDE ASSEMBLY	1				
29	12971	SEAL PLUG	1				
30	13043-1	SPACER	1				
31	23796	SPRING HOUSING	1				
32	18100-619B	O-RING	1	X	X		X
33	12970	SPRING PLATE	1				
34	12968	SPRING, COMPRESSION	1				
35	11052-3	ADJUSTING SCREW	1				
36	11580GV	NUT, LOCK	1				
37	18100-113B	O-RING	2	X	X		X
38	11567GV	CAP, LOCK	1				
39	18800-001	BALL, 1/2" DIA.	1				



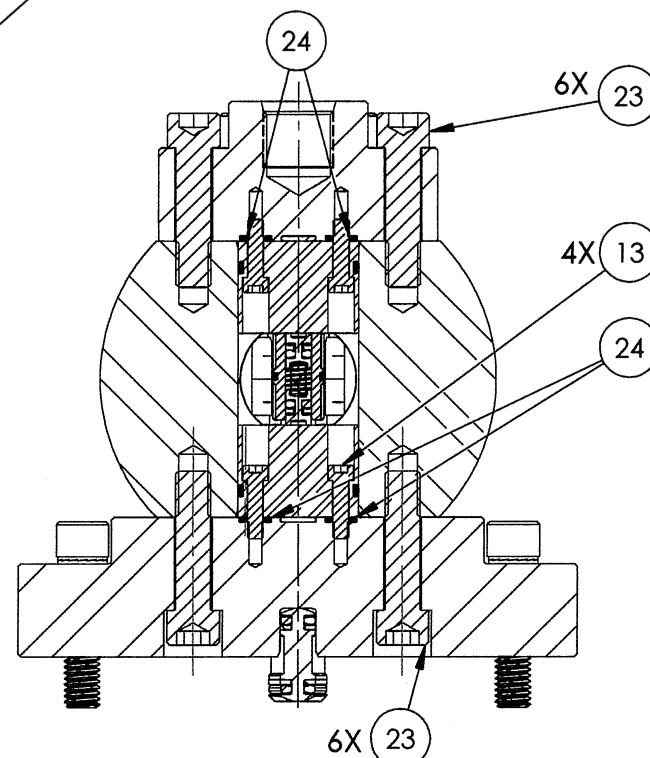
DETAIL B



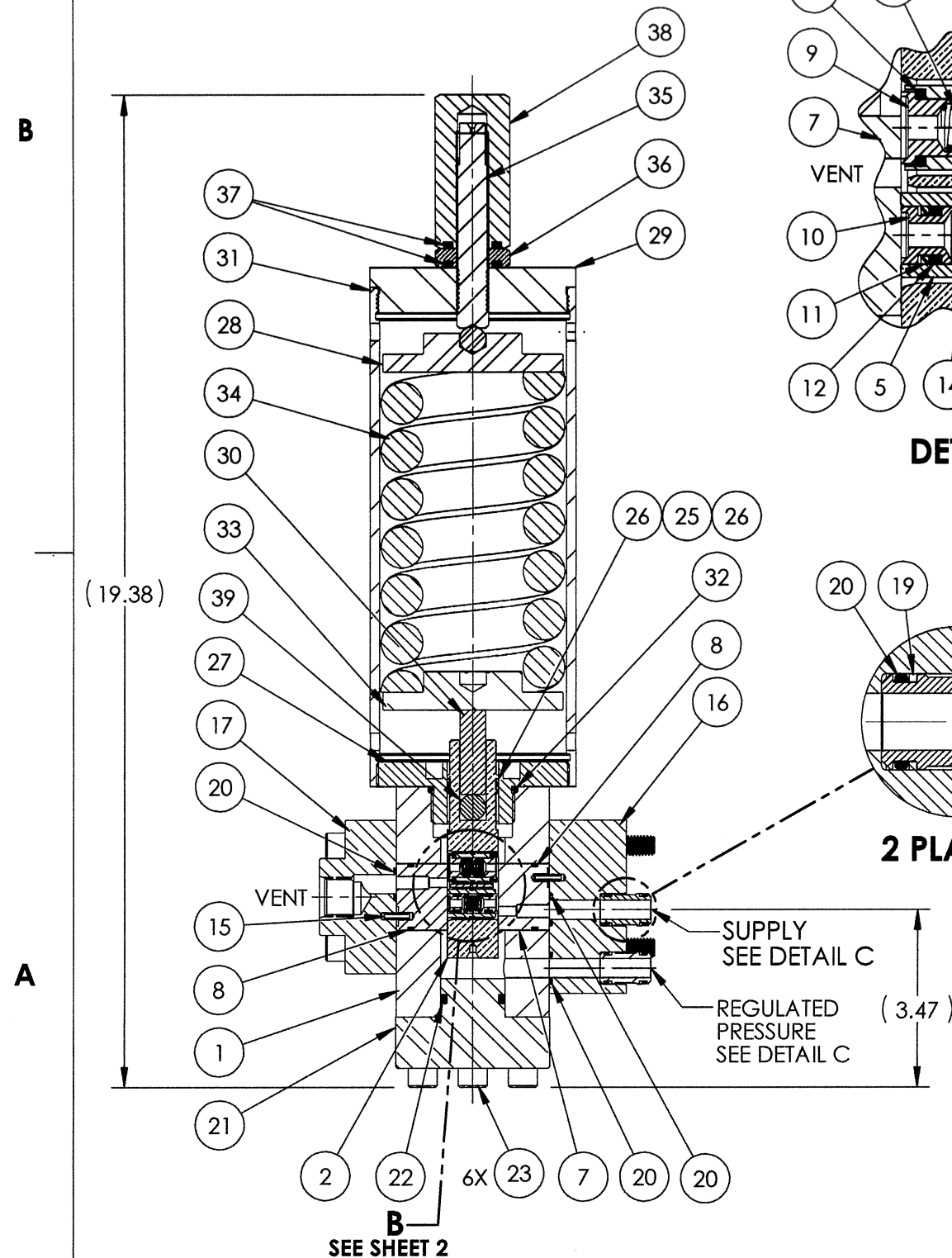
DETAIL C
SEAL SUB
POCKET DETAIL



2 PLACES



SECTION D-D



SECTION A-A

proserv Gilmore		44475-TC		REV A
SIZE B	DWG NO	SCALE 9:16	SolidWorks	SHEET 2 OF 2

NOTES:

1. LOCATE SEAL SUB POCKETS AND MOUNTING SCREW HOLES WITHIN .010 OF TRUE POSITION.
2. X DEPICTS PARTS IN REPAIR KIT 44475-2-TC RK, SEAL KIT 44475-2-TC SK, MOUNTING KIT 44475-2-TC MK AND CONVERSION KIT 44475-2-TC CK.
- 3 MARKING: MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.

REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
A	ERN 02328	<i>[Signature]</i> 7/16/19	<i>[Signature]</i> 7-16-19	<i>[Signature]</i> 7/16/19

PRESSURE DATA

MAX PRESSURE RATING: 5,000 PSI

FLOW DATA

CALCULATED

Cv = .53 SUPPLY
Cv = .53 VENT

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

PORTS

SUPPLY: 5,000 PSI FLANGE
W/SEAL SUB POCKET

REGULATED: 1,500 PSI FLANGE
W/SEAL SUB POCKET

VENT: 1/2" SAE, 1,500 PSI

PILOT: 1/4" NPT, 1,500 PSI

GENERAL DATA

APPROX WEIGHT: 31 LBS

MATERIALS

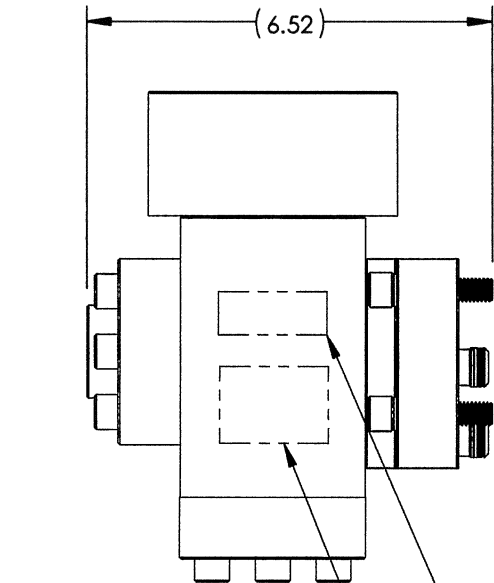
A582 TP 303
A582 T416
TUNGSTEN CARBIDE
A276 T316
A276 T304
F593 GR2
VITON
TEFLON
AISI 420
C3600 HO2
A453 GR660

B

B

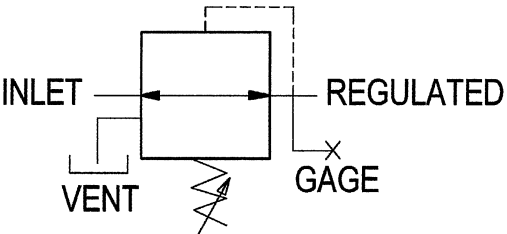
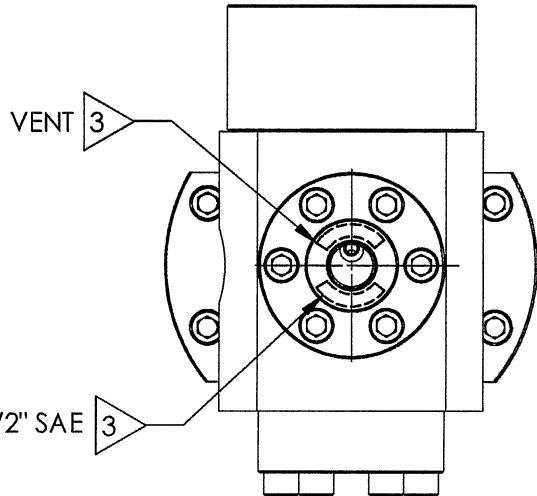
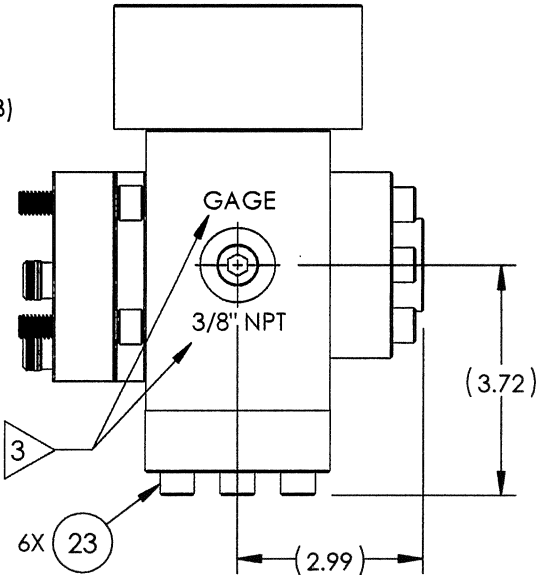
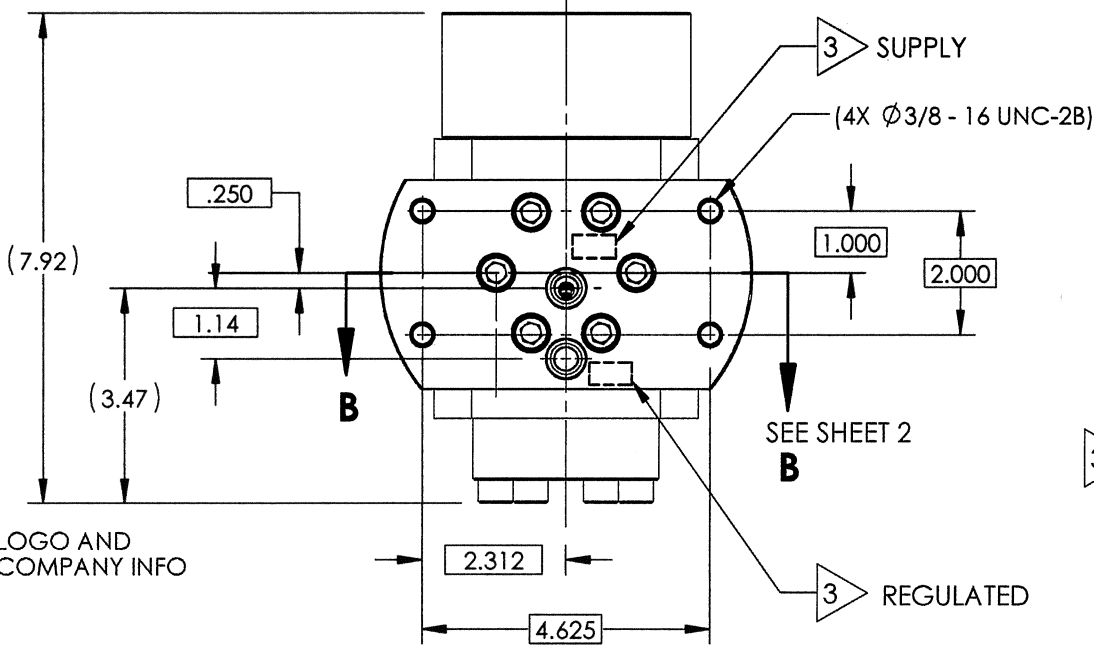
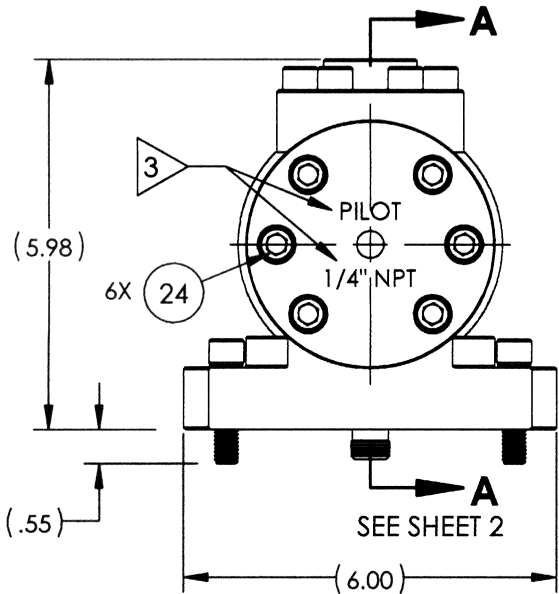
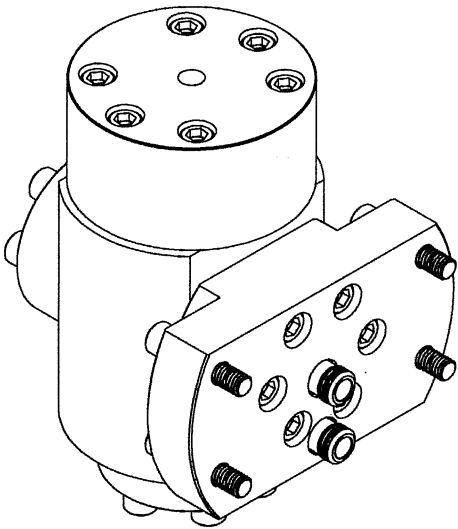
A

A

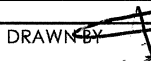
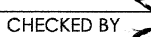


44475-2-TC
VER (AX VERSION #)
(SERIAL NUMBER)
5,000 PSI MWP
(DATE OF MFG)

SEE SHOP TRAVELER
FOR ADDITIONAL
INFO REQUIRED



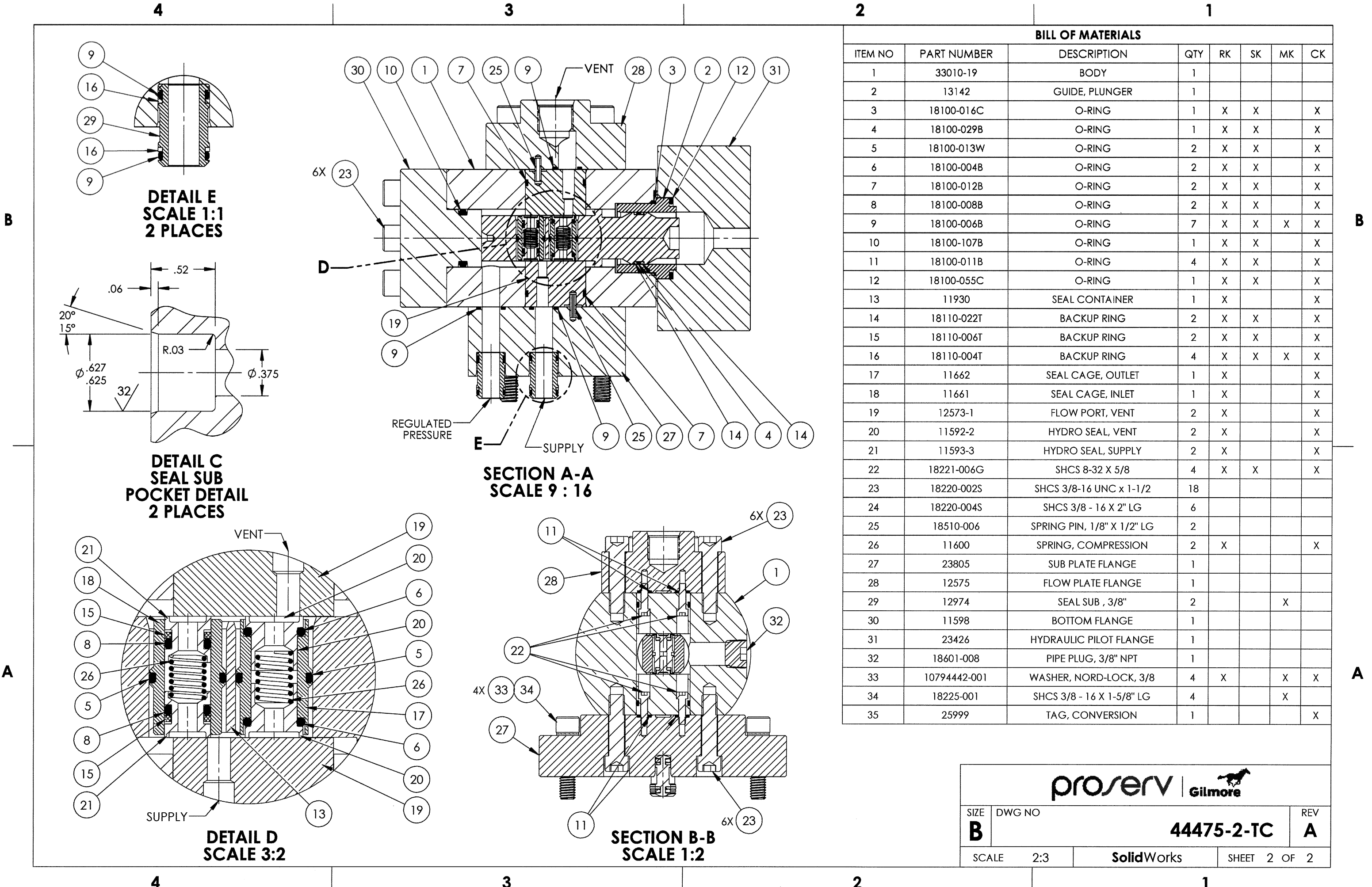
SCHEMATIC

MATERIAL: SEE INDIV PART 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 	DATE 7/16/19
CONDITION:		CHECKED BY 	DATE 7-16-19
TREATMENT:		ENGINEER 	DATE 7/16/19
PROCEDURE NUMBER:		ERN NUMBER 02328	DATE 07/15/19
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proserv

**REGULATOR, HYDRAULIC
PRESSURE, 3/8" SEAL SUB, 1/4" NPT
PILOT, 1500/5000 PSI**

SIZE B	DWG NO 44475-2-TC	REV A
SCALE 1:2	SolidWorks	SHEET 1 OF 2



proserv

Gilmore

SIZE

DWG NO

REV

B

44475-2-TC

A

SCALE

2:3

SolidWorks

SHEET 2 OF 2