Product Improvement Notification (PIN)

PN 25320-X and PN 25323-X Bonnet Material

REV	DATE	DESCRIPTION	ORIGIN (issued by)	APPROVED
REV 001	5/10/21	Document No: 110-051021-001	GM	BR

For more information:
Call (800) 469-8786
Gilmore@proserv.com

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

Product Improvement Notification (PIN)

PN 25320-X and PN 25323-X Bonnet Material

Gilmore Valve announces a material improvement to our Hydraulic Relief Valve PN 25320-X and PN 25323-X series. The 316SS bar bonnet supplied since January 2019 is being discontinued and replaced with a cast bonnet once again.

The new cast bonnet, PN 23401-4 is now made from CF8M, a cast grade equivalent to 316 SS in corrosion resistance. This allows us to reduce the weight and footprint back to the original design while keeping the corrosion resistance benefits of the stainless bonnet.

Please note that while this change decreases the valve envelope, it does not affect the valve's port location. The bonnet maximum width has now decreased to 2.00 inches from 2.70 inches. The porting location for these bonnets continues to be identical and can be swapped out directly.

The following part numbers are immediately affected by this change:
PN 25320-1, PN 25320-2, PN 25320-3, PN 25320-4, PN 25320-5
PN 25323-1, PN 25323-2, PN 25323-3, PN 25323-4, PN 25323-5

Figure 1. 25320-2 with Bar Bonnet left, replaced with CF8M Cast bonnet on the right. Port locations remain identical

PN 25320-X and PN 25323-X Bonnet Material

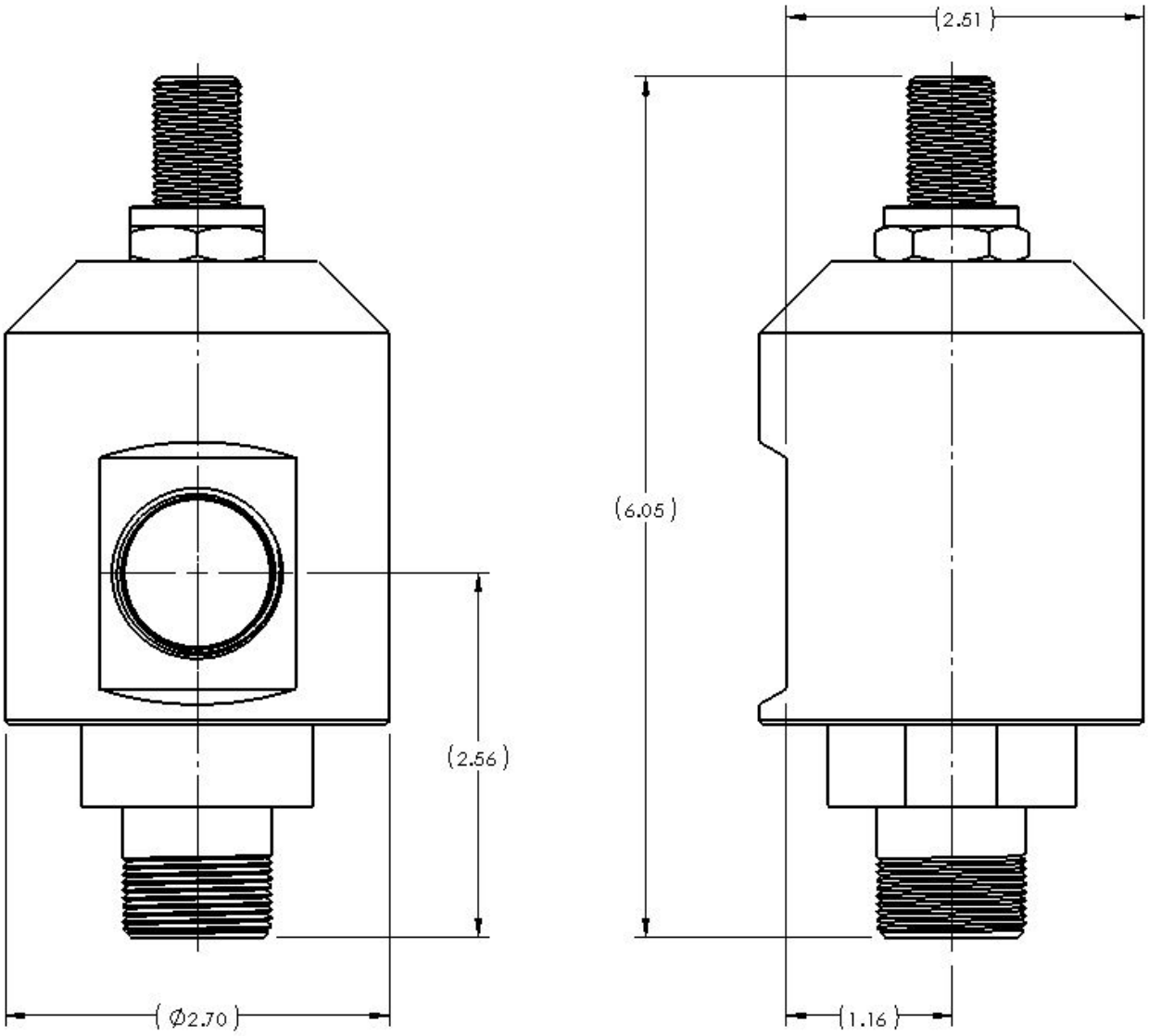


Figure 2. PN 25320-1 with 316SS Bar Bonnet

PN 25320-X and PN 25323-X Bonnet Material

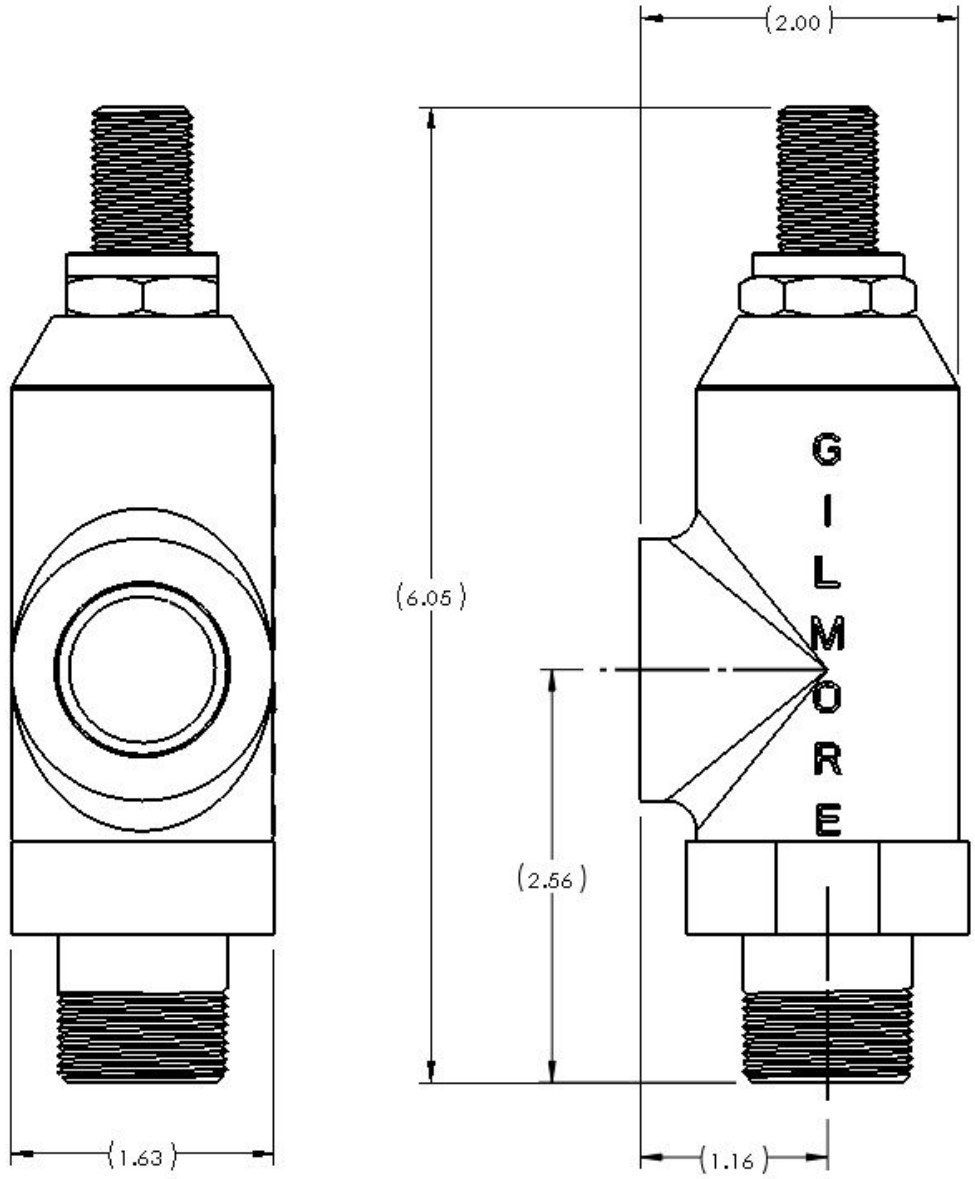
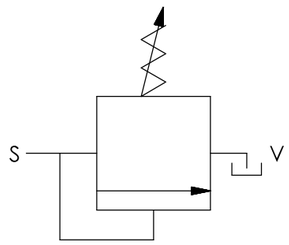


Figure 3. PN 25320-1 with CF8M Cast bonnet: Reference Dimensions

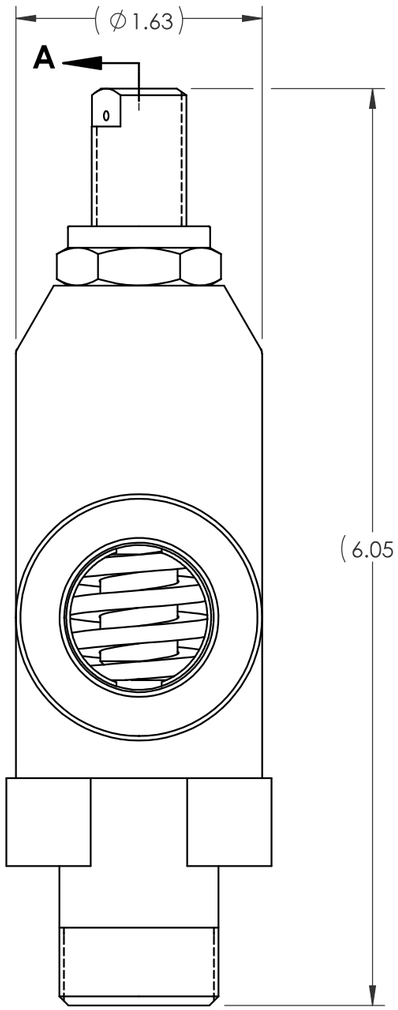
Please contact Gilmore Customer Service to request any drawings, manuals, and quotations for these relief valves at Gilmore@proserv.com.

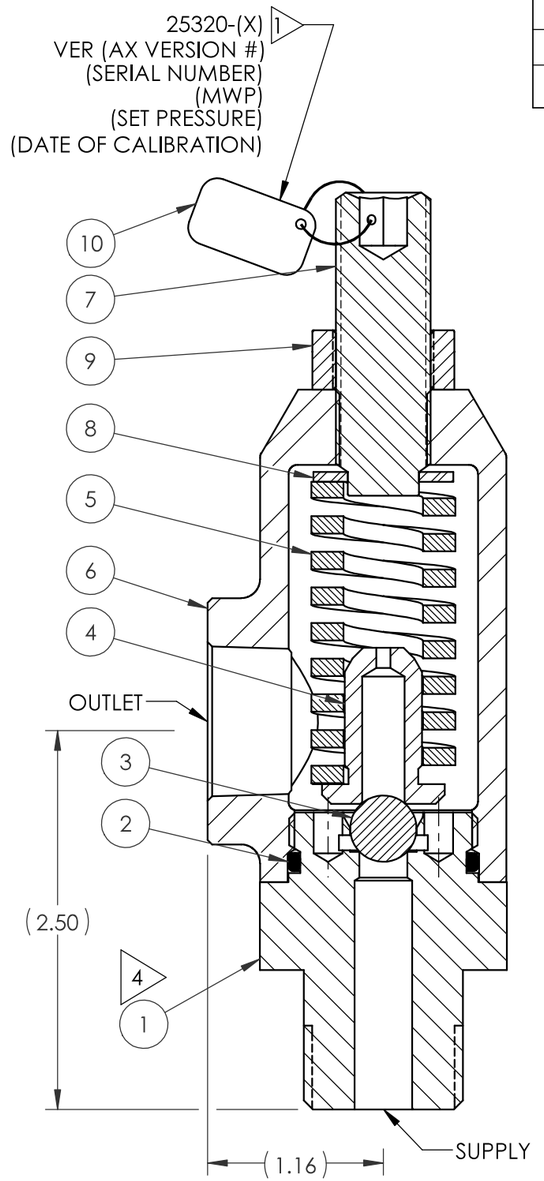
NOTES:

1. MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
2. AN 'X' IN THE BOM INDICATES PARTS IN REPAIR KIT 25320-(X) RK.
3. ASSEMBLY PROCEDURE 50082. TEST PROCEDURE 50057.
4. TORQUE ITEM 1 TO 25 FT-LBS.

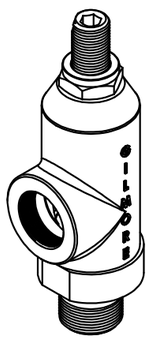


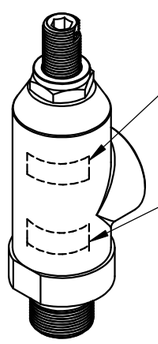
SCHEMATIC





SECTION A-A





1. CUSTOMER (P/N)
   REVISION ( )
   SERIAL NO.( )
   SET PRESSURE( )
1. 25320-(X) (U)
   VER (AX VERSION #)
   (SERIAL NUMBER)
   7,500 PSI
   PATENT PENDING OR US PATENT (#)
   (DATE OF MFG)

SEE SHOP TRAVELER FOR ADDITIONAL INFO REQUIRED

REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
U	ECO 020639	JZ 5/4/21	CMG 5-4-21	AJP 5/4/21

PART NUMBER	SET PRESSURE RANGE (PSI)	SPRING COLOR	SPRING	MATERIAL
25320-1	100 TO 500	WHITE	186110	A229; CS; XYLAN
25320-2	450 TO 2000	GREEN	186111	A232; CV; XYLAN
25320-3	1850 TO 3500	BLUE	186112	A232; CV; XYLAN
25320-4	3500 TO 5000	RED	186113	A232; CV; XYLAN
25320-5	5000 TO 7500	YELLOW	186109	A228; MUSIC WIRE; XYLAN

PRESSURE DATA
MAXIMUM WORKING PRESSURE (SUPPLY): 7,500 PSI
MAXIMUM WORKING PRESSURE (OUTLET): 300 PSI

FLOW DATA
ORIFICE SIZE: .313"
CV: 1.74

CONNECTION
SUPPLY (S): 3/4" NPTF
OUTLET (V): 3/4" NPTF

GENERAL DATA
APPROX WEIGHT: 2.1 LBS
TEMPERATURE RANGE: 20°F TO 200°F
FLUIDS: - WATER BASED DRILLING CONTROL FLUID.
- MINERAL OIL BASED DRILLING CONTROL FLUID.
FIELD SERVICEABLE

BILL OF MATERIALS

ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK
1	23397	BODY	A276 TP 410	1	X
2	18100-057B	O-RING	BUNA-N	1	X
3	18800-028	BALL	TUNGSTEN CARBIDE	1	X
4	12554	SPRING DISC	A582 TP 416	1	
5	SEE CHART	SPRING, COMPRESSION	SEE CHART	1	X
6 (U)	23401-4	BONNET, 3/4" NPTF, VALVE, RELIEF, HYDRAULIC	A351 CF8M (316 SST)	1	
7	28539	SET SCREW	CARBON STEEL	1	X
8	18850-004	WASHER	CARBON STEEL	1	
9	21112-010	LOCK NUT	GRADE 2 STEEL, ZINC PLATED	1	X
10	28538	TAG KIT	ALUMINUM / SS		

MATERIAL: SEE INDIV BOM ITEMS
CONDITION:
TREATMENT:
PROCEDURE NUMBER: 3

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	JOSE'	DATE 07/18/00
CHECKED BY	RCH	DATE 07/18/00
ENGINEER	GH	DATE 07/18/00
ERN NUMBER	1928	DATE 07/18/00

Gilmore a proserv company

ENGINEERING

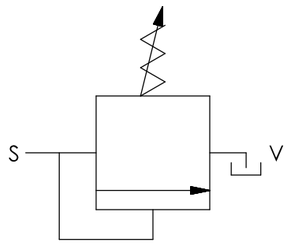
VALVE, RELIEF, HYDRAULIC, 3/4" NPTF

SIZE	DWG NO	REV
B	25320-X	U

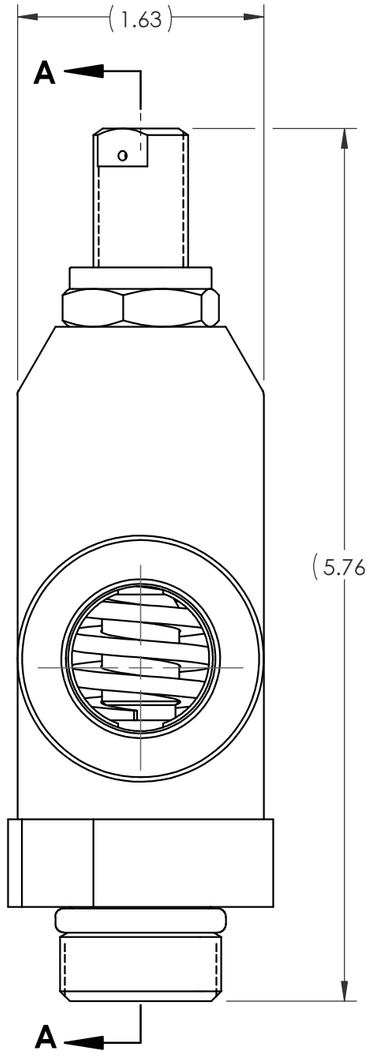
SCALE 1:2 | SolidWorks | SHEET 1 OF 1

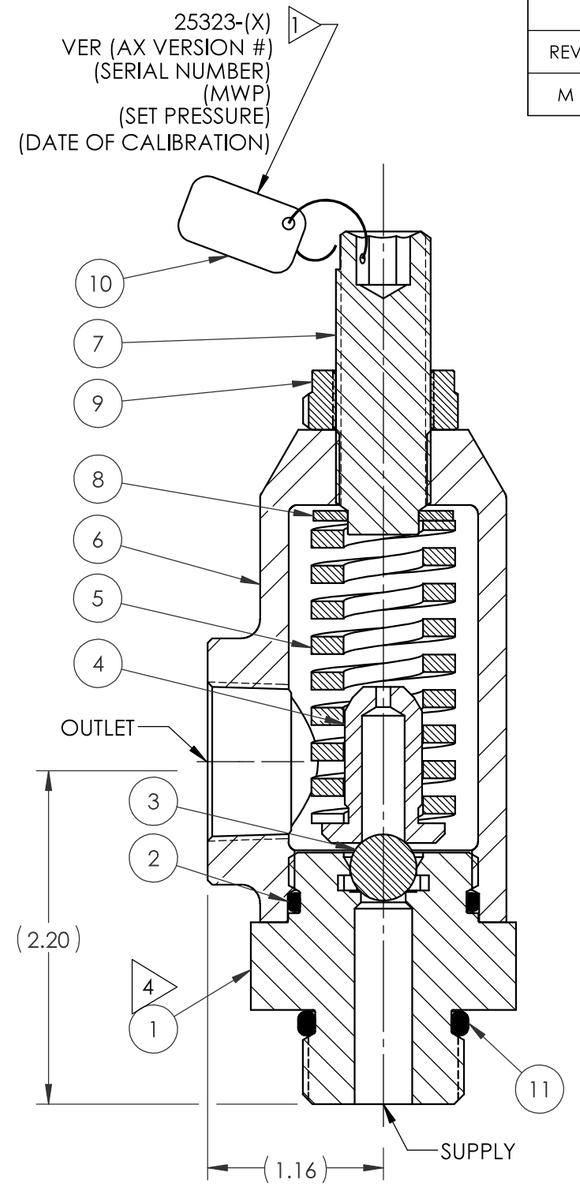
NOTES:

1. MARK AS SHOWN USING LASER ETCH OR COMPUTER CONTROLLED DOT PEEN MARKING MACHINE, .06 HIGH MIN CHARACTERS.
2. AN 'X' IN THE BOM INDICATES PARTS IN REPAIR KIT 25323-(X) RK.
3. ASSEMBLY PROCEDURE 50082. TEST PROCEDURE 50057.
4. TORQUE ITEM 1 TO 25 FT-LBS.

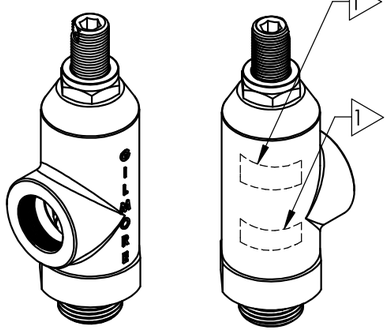


SCHEMATIC





SECTION A-A



1 CUSTOMER (P/N)
REVISION ( )
SERIAL NO.( )
SET PRESSURE( )

1 25323-(X)
VER (AX VERSION #)
(SERIAL NUMBER) M
7,500 PSI
PATENT PENDING OR US PATENT (#)
(DATE OF MFG)

SEE SHOP TRAVELER FOR ADDITIONAL INFO REQUIRED

REVISIONS				
REV	ERN /ECO NUMBER	DRAWN	CHECKED	APPROVED
M	ECO 020639	JZ 5/4/21	CMG 5-4-21	AJP 5/4/21

PART NUMBER	SET PRESSURE RANGE (PSI)	SPRING COLOR	SPRING	MATERIAL
25323-1	100 TO 500	WHITE	186110	A229; CS; XYLAN
25323-2	450 TO 2000	GREEN	186111	A232; CV; XYLAN
25323-3	1850 TO 3500	BLUE	186112	A232; CV; XYLAN
25323-4	3500 TO 5000	RED	186113	A232; CV; XYLAN
25323-5	5000 TO 7500	YELLOW	186109	A228; MUSIC WIRE; XYLAN

PRESSURE DATA
MAXIMUM WORKING PRESSURE (SUPPLY): 7,500 PSI
MAXIMUM WORKING PRESSURE (OUTLET): 300 PSI

FLOW DATA
ORIFICE SIZE: .313"
CV: 1.74

CONNECTION
SUPPLY (S): 3/4" SAE
OUTLET (V): 3/4" NPTF

GENERAL DATA
APPROX WEIGHT: 2.1 LBS
TEMPERATURE RANGE: 20°F TO 200°F
FLUIDS: - WATER BASED DRILLING CONTROL FLUID.
- MINERAL OIL BASED DRILLING CONTROL FLUID.
FIELD SERVICEABLE

BILL OF MATERIALS

ITEM NO	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK
1	23634	BODY, 3/4" SAE	23634-1	1	X
2	18100-057B	O-RING	BUNA-N	1	X
3	18800-028	BALL	TUNGSTEN CARBIDE	1	X
4	12554	SPRING DISC	A582 TP 416	1	
5	SEE CHART	SPRING, COMPRESSION	SEE CHART	1	X
6	23401-4	BONNET, 3/4" NPTF, VALVE, RELIEF, HYDRAULIC	A351 CF8M (316 SST)	1	
7	28539	SET SCREW	CARBON STEEL	1	X
8	18850-004	WASHER	CARBON STEEL	1	
9	21112-010	LOCK NUT	GRADE 2 STEEL, ZINC PLATED	1	X
10	28538	TAG KIT	ALUMINUM / SS		
11	18100-113B	O-RING	BUNA-N	1	X

MATERIAL: SEE INDIV BOM ITEMS
CONDITION:
TREATMENT:
PROCEDURE NUMBER: 3

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	JOSE'	DATE 04/28/00
CHECKED BY	RCH	DATE 04/28/00
ENGINEER	GH	DATE 04/28/00
ERN NUMBER	1870	DATE 04/28/00

Gilmore a proserv company

ENGINEERING

VALVE, RELIEF, HYDRAULIC, 3/4" SAE SUPPLY, 3/4" NPTF OUTLET

SIZE	DWG NO	REV
B	25323-X	M

SCALE 1:2 | SolidWorks | SHEET 1 OF 1