

New Product Release

1/2" MKIV Shuttle Valve Product Line

REV	DATE	DESCRIPTION	ORIGIN (issued by)	APPROVED
Rev A	08-10-2018	Document No: 120-081018-001	AP	SS

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New Product Release

1/2" MKIV Shuttle Valve Product Line



Proserv announces the new Gilmore 1/2" Mark IV Shuttle Valve product line for critical offshore and subsea applications. The 1/2" Mark IV Shuttle Valve product line establishes a new benchmark for reliability and serviceability in drilling control systems where redundant hydraulic pressure supplies are required.

Features and Benefits:

- Qualification exceeds API 16D requirements
 - Non Biased shuttle valves qualified to 2500 cycles at maximum flow conditions
 - Pressure and Spring Biased shuttle valves qualified to 1000 cycles at maximum flow conditions
- Shuttle metal seat no longer requires coining, simplifying on-site repairs
- All shuttle styles are hydraulically dampened
- Common stacked bodies can be readily reconfigured
- Fully serviceable shuttles and body seats can be completely redressed inline.
- Available configurations include Pressure biased, Spring biased, high interflow, low interflow, high drag, low drag options with customizable end connections and mounting provisions.
- Customizable single valve and stack valve assemblies available to suit application requirements
- Suitable for panel mounting or direct mounting
- U.S. Patent 9,915,275

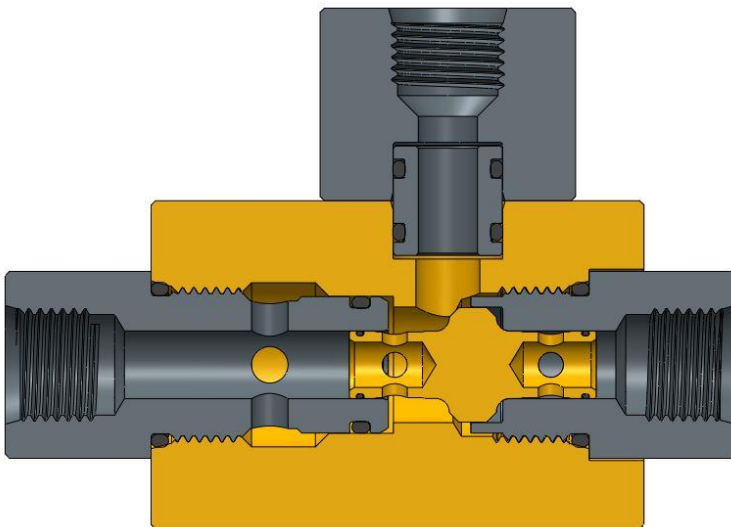


Figure 1. PN 29025: 1/2" MKIV Shuttle Valve, Inline, SAE, Low Interflow, High Drag

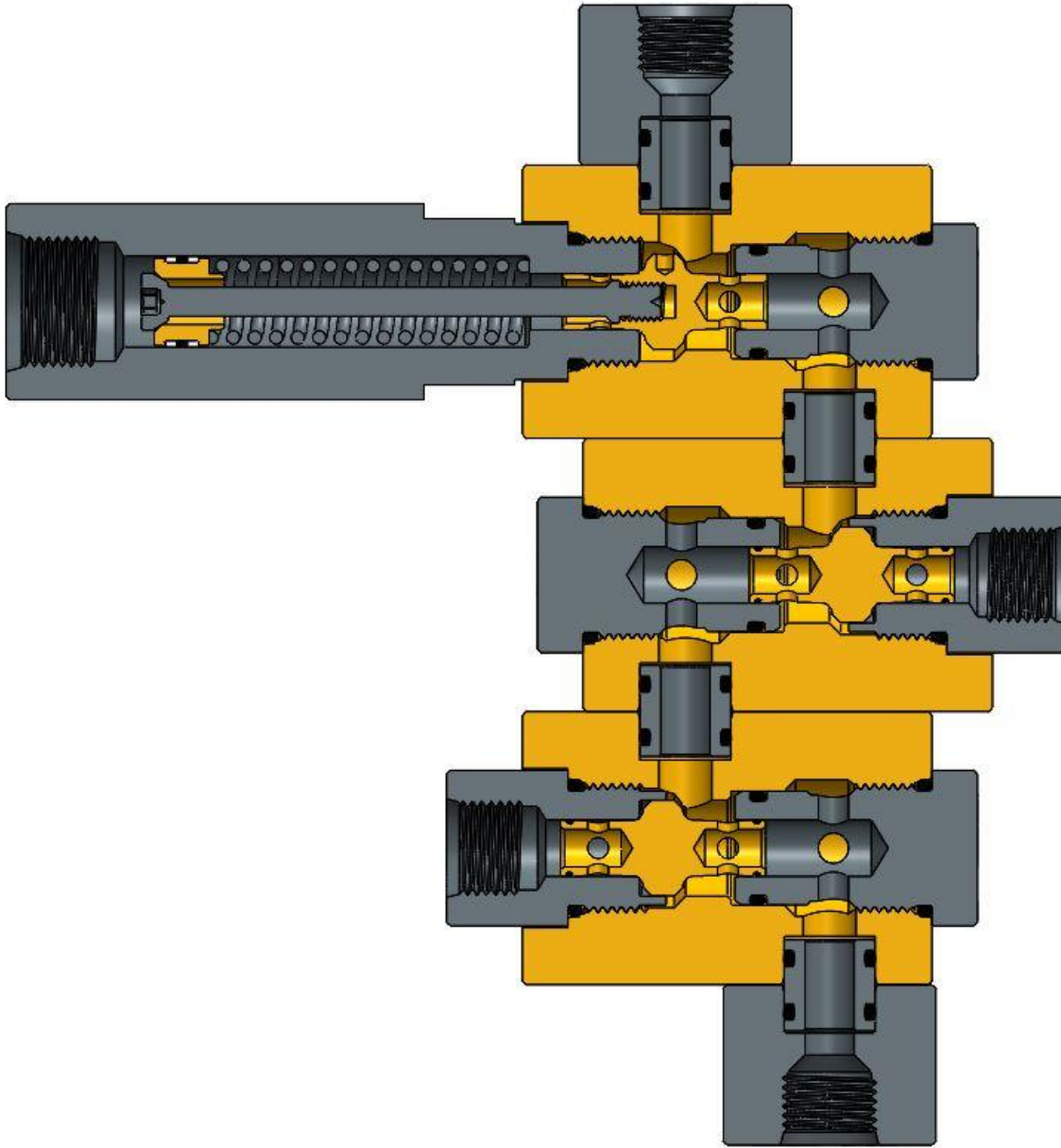


Figure 2. PN 29038: 1/2" MKIV Shuttle Valve, Stack, 4 Inlets, SAE, Pressure Biased, Low Interflow, High Drag

Proserv has exceeded API 16D requirements by qualifying the new 1/2" MKIV Shuttle Valve non-biased designs to multiple endurance qualification tests to 2500 cycles, at a starting flow rate of 45 gpm – and biased designs to 1000 cycles and 40 gpm – at 5000 psi, with 1% - 4% water glycol test fluid.

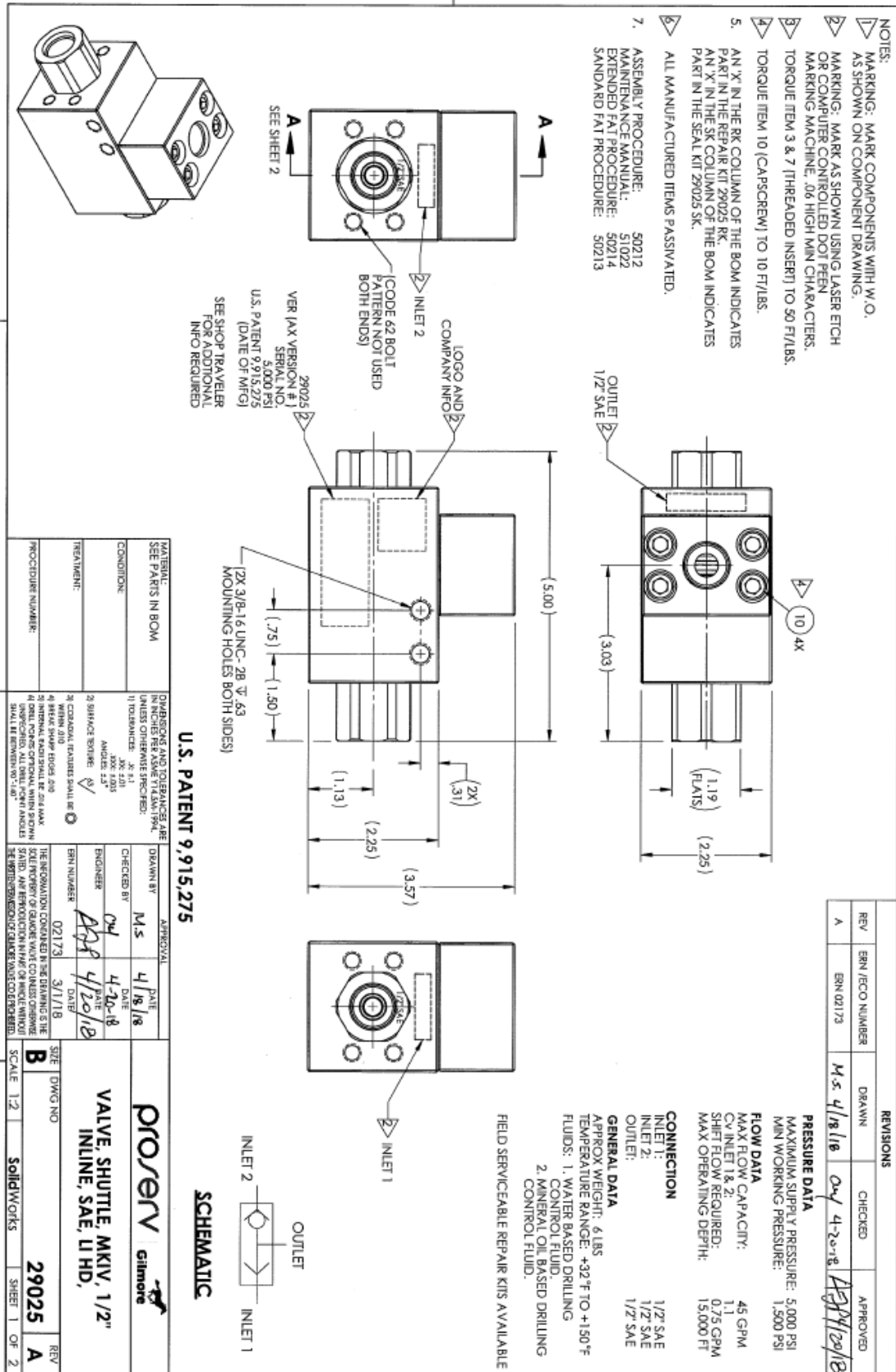
The new Proserv Gilmore 1/2" MKIV Shuttle Valves are now available for purchase. A few examples of typical assembly configurations are listed below for reference. Proserv Gilmore will create other customized 1/2" MKIV Shuttle valve configurations that are required.

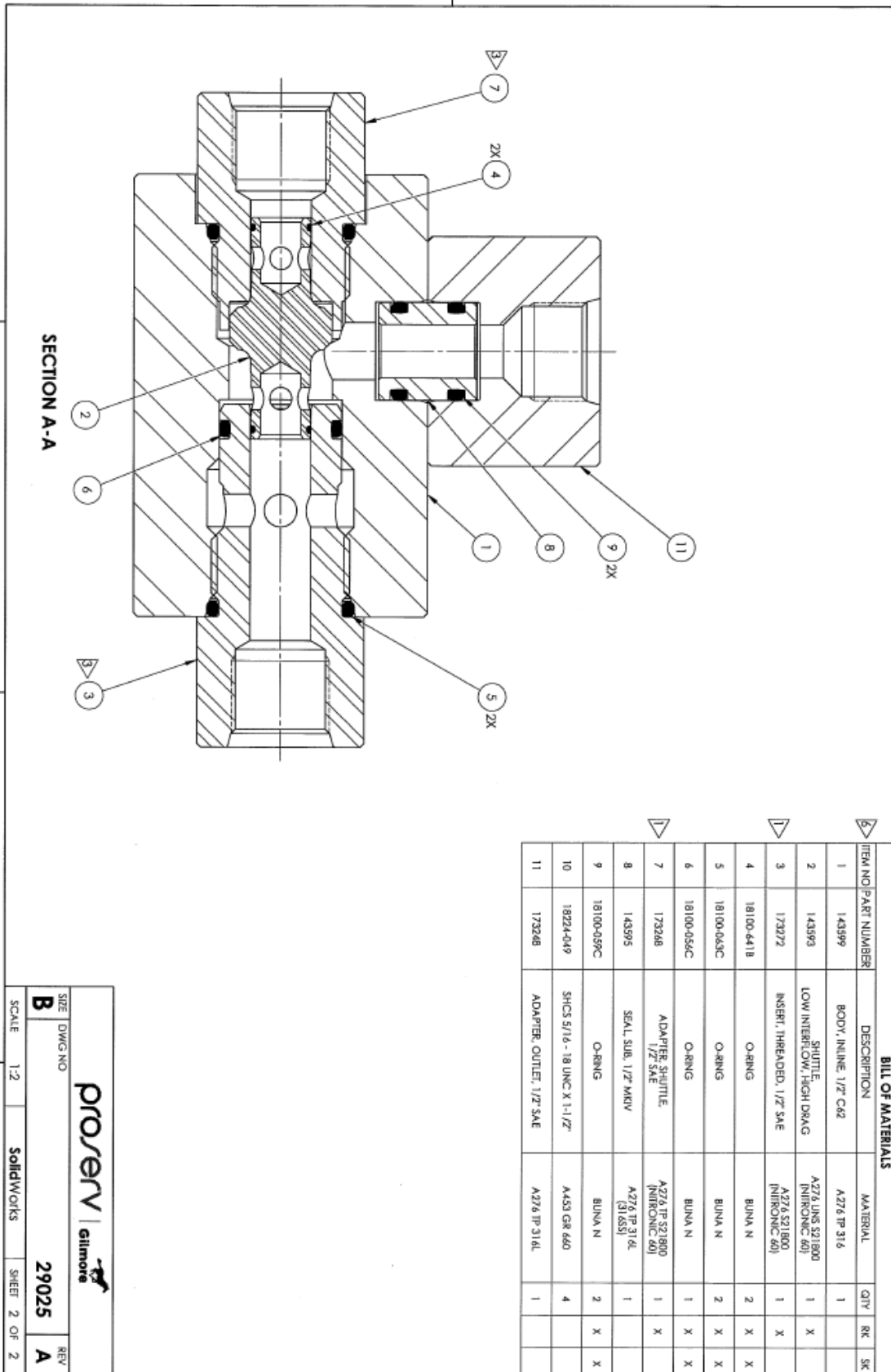
Please contact Proserv Customer Service to request a quotation for the 1/2" MKIV Shuttle Valves listed below, or other configurations as required.

Table 1. Examples of New 1/2" MKIV Shuttle Valve Part Numbers:

Item	New Valve Description	Legacy PN Reference	New Valve PN	New Repair Kit PN	New Seal Kit PN
1	Valve, MKIV, 1/2" Inline, SAE, Low Interflow, High Drag	27027-0.3	29025	29025 RK	29025 SK
2	Valve, MKIV, 1/2", Stack, 3 Inlets, Code 62, Low Interflow, High Drag	27016-3.3	29026	29026 RK	29026 SK
3	Valve, MKIV, 1/2" Inline, SAE, Pressure Biased, 200 psi Shift	28008-1	29027	29027 RK	29027 SK
4	Valve, MKIV, 1/2", Stack, 3 Inlets, SAE, Pressure Biased, 200 psi Shift, Low Interflow, High Drag	27551-4	29028	29028 RK	29028 SK
5	Valve, MKIV, 1/2", Stack, 4 Inlets, SAE, 2x Pressure Biased, 200 psi Shift, Low Interflow, High Drag	N/A	29029	29029 RK	29029 SK
6	Valve, MKIV, 1/2", Stack, 4 Inlets, SAE, Pressure Biased, 200 psi Shift, Low Interflow, High Drag	N/A	29038	29038 RK	29038 SK
7	Valve, MKIV, 1/2" Inline, SAE, Spring Biased	28141	29053	29053 RK	29053 SK
8	Valve, MKIV, 1/2", Inline, NPT, High Interflow, High Drag	N/A	29055	29055 RK	29055 SK
9	Valve, MKIV, 1/2", Inline, Code 62, Pressure Biased, 200 psi Shift	28055	29056	29056 RK	29056 SK

Please note at this time Proserv will continue to support the legacy 1/2" MKIII Shuttle Valves, which have a different footprint than the new 1/2" MKIV Shuttle Valves.

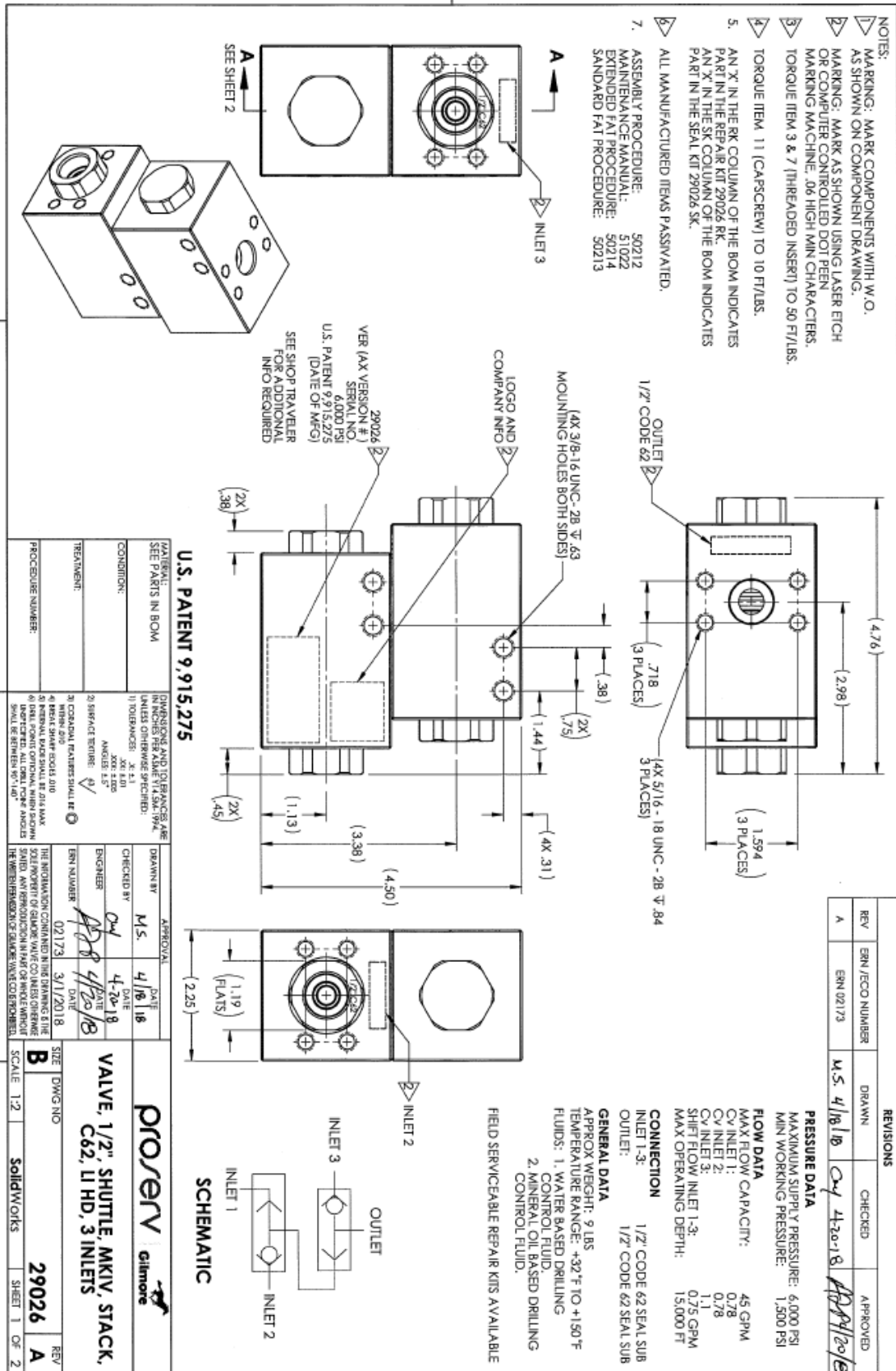


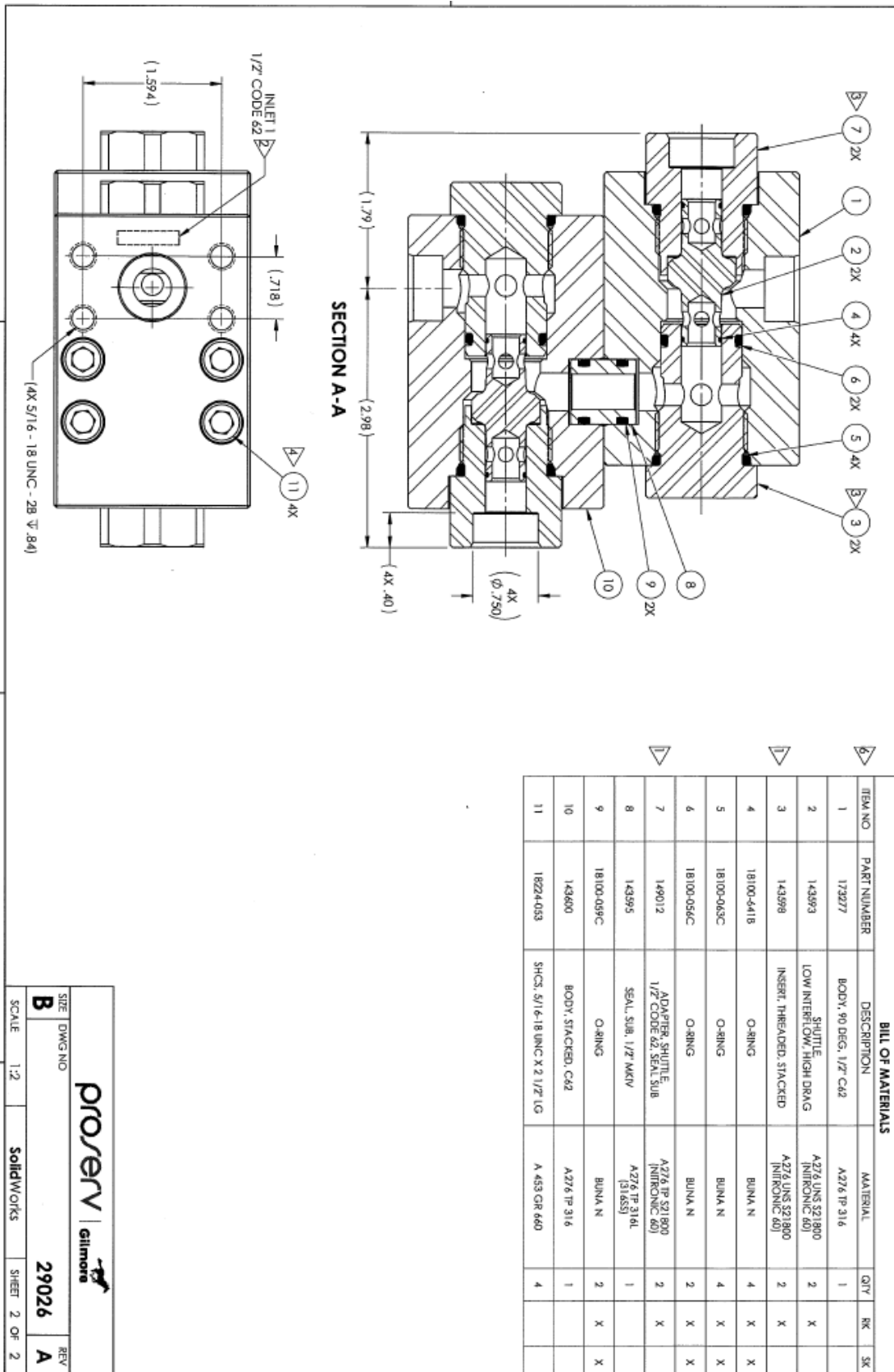


proserv | gilmore

SIZE | DWG NO | 29025 | REV | A

SCALE | 1:2 | SolidWorks | SHEET 2 OF 2





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SIZE: DWG NO: **B**

SCALE: 1:2

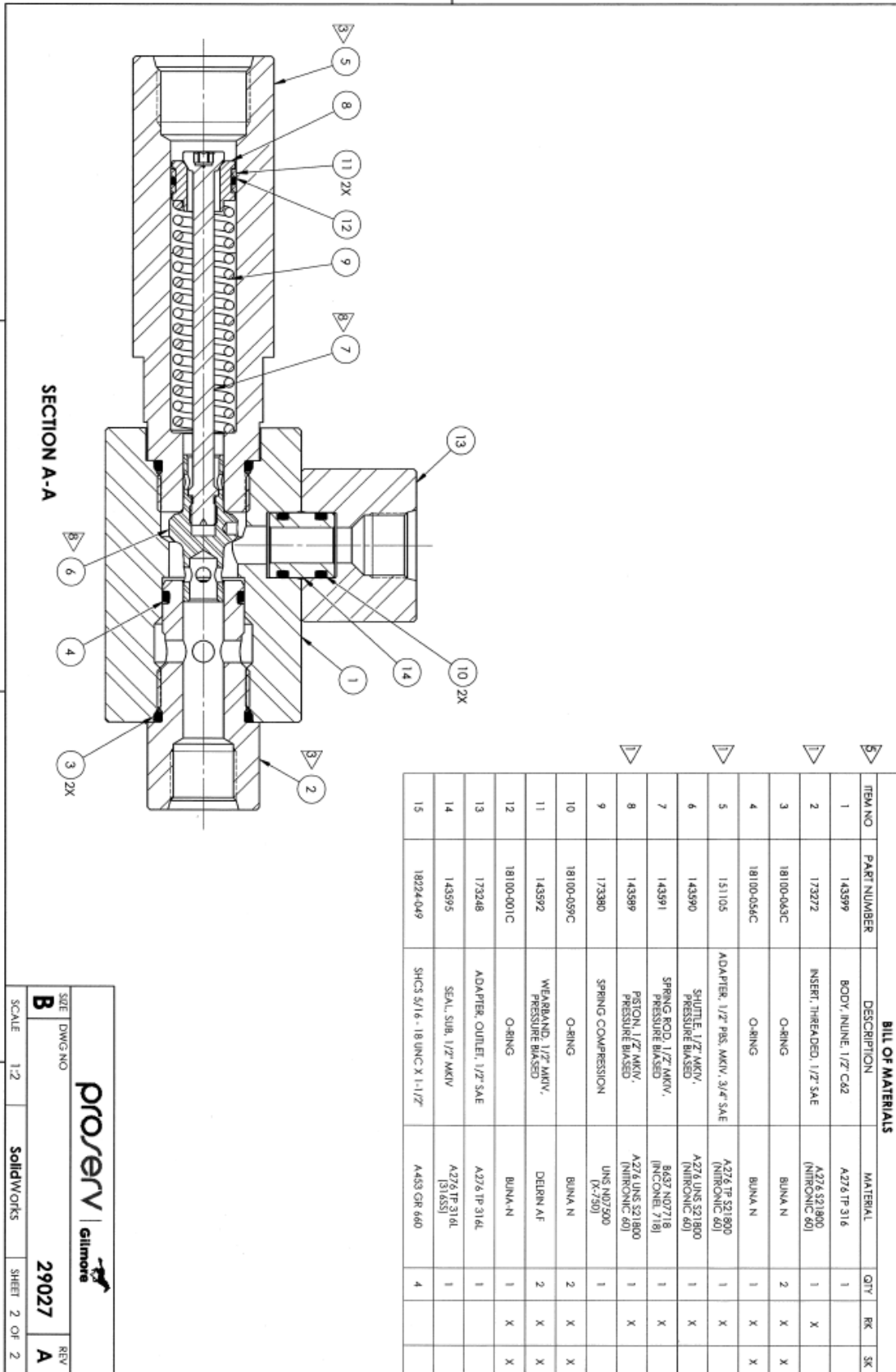
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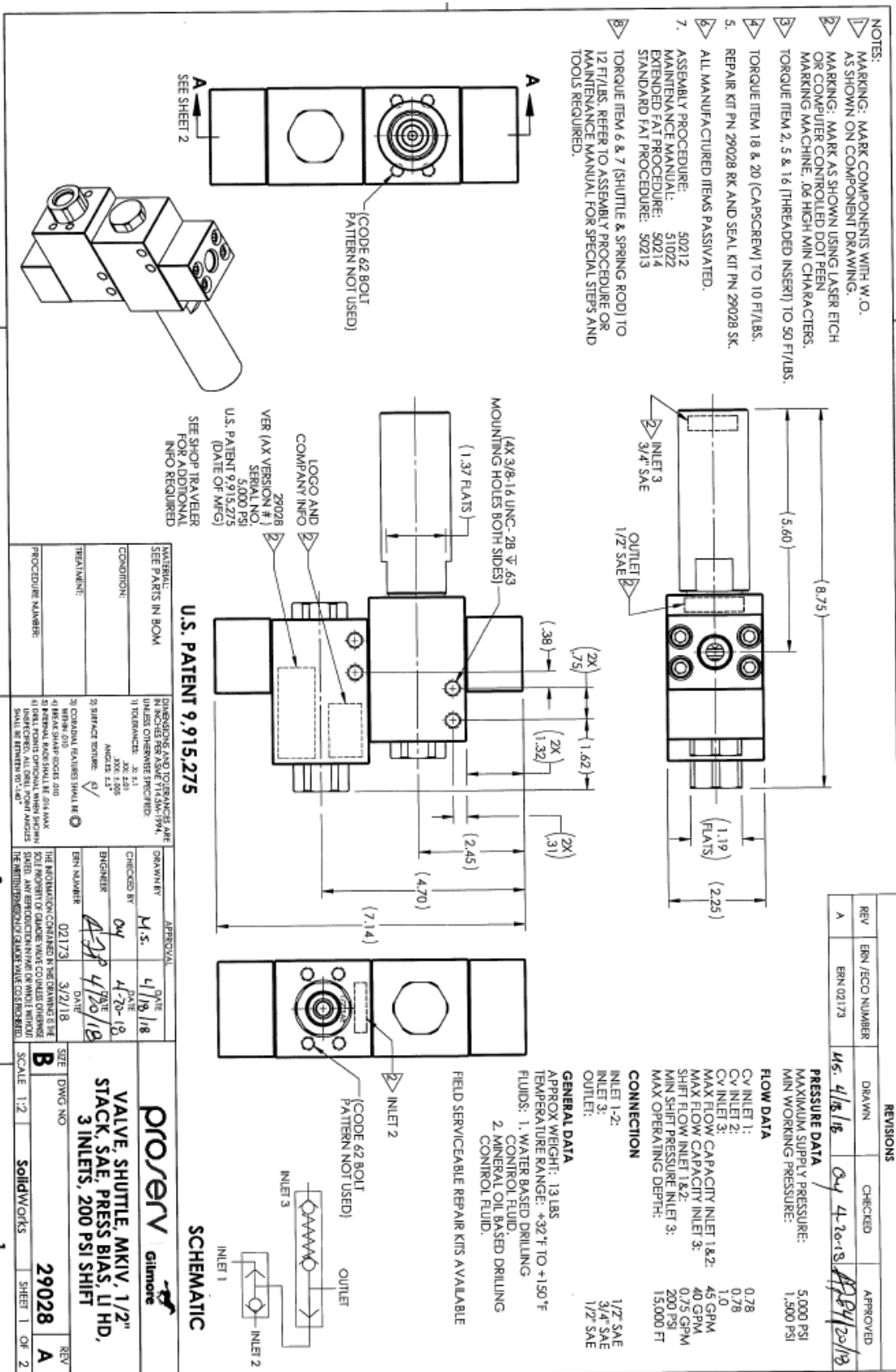
SHEET 2 OF 2

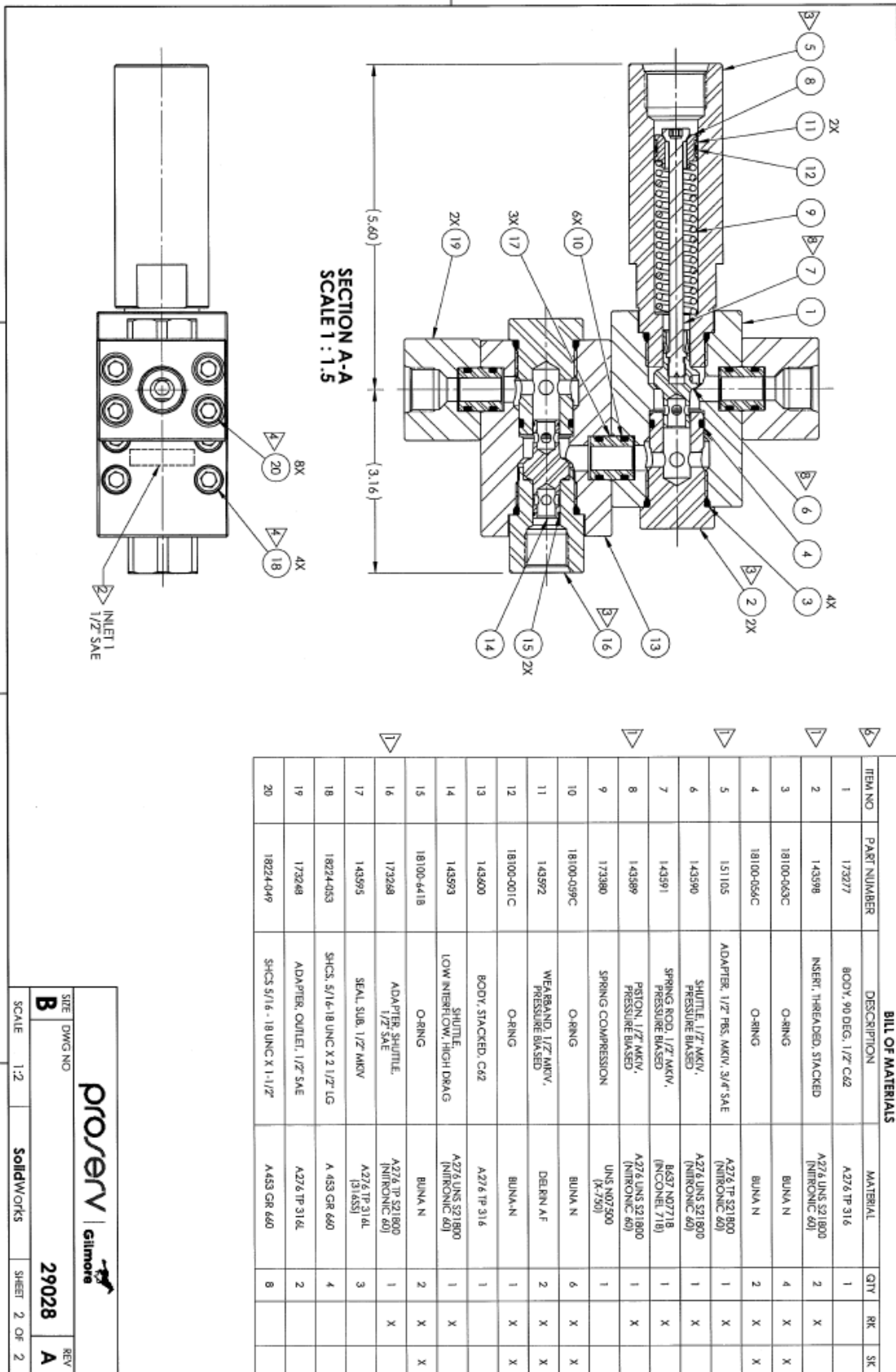
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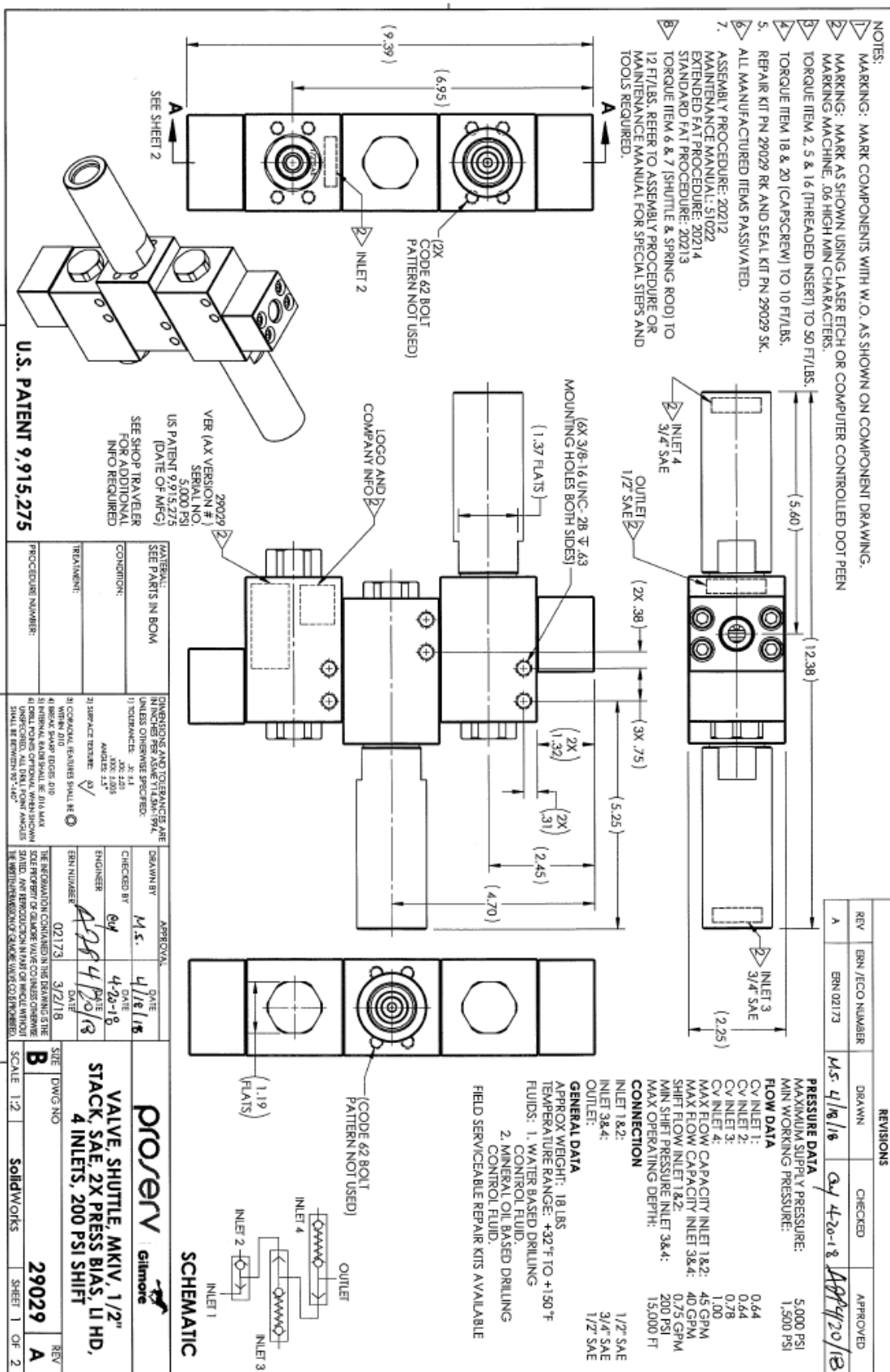
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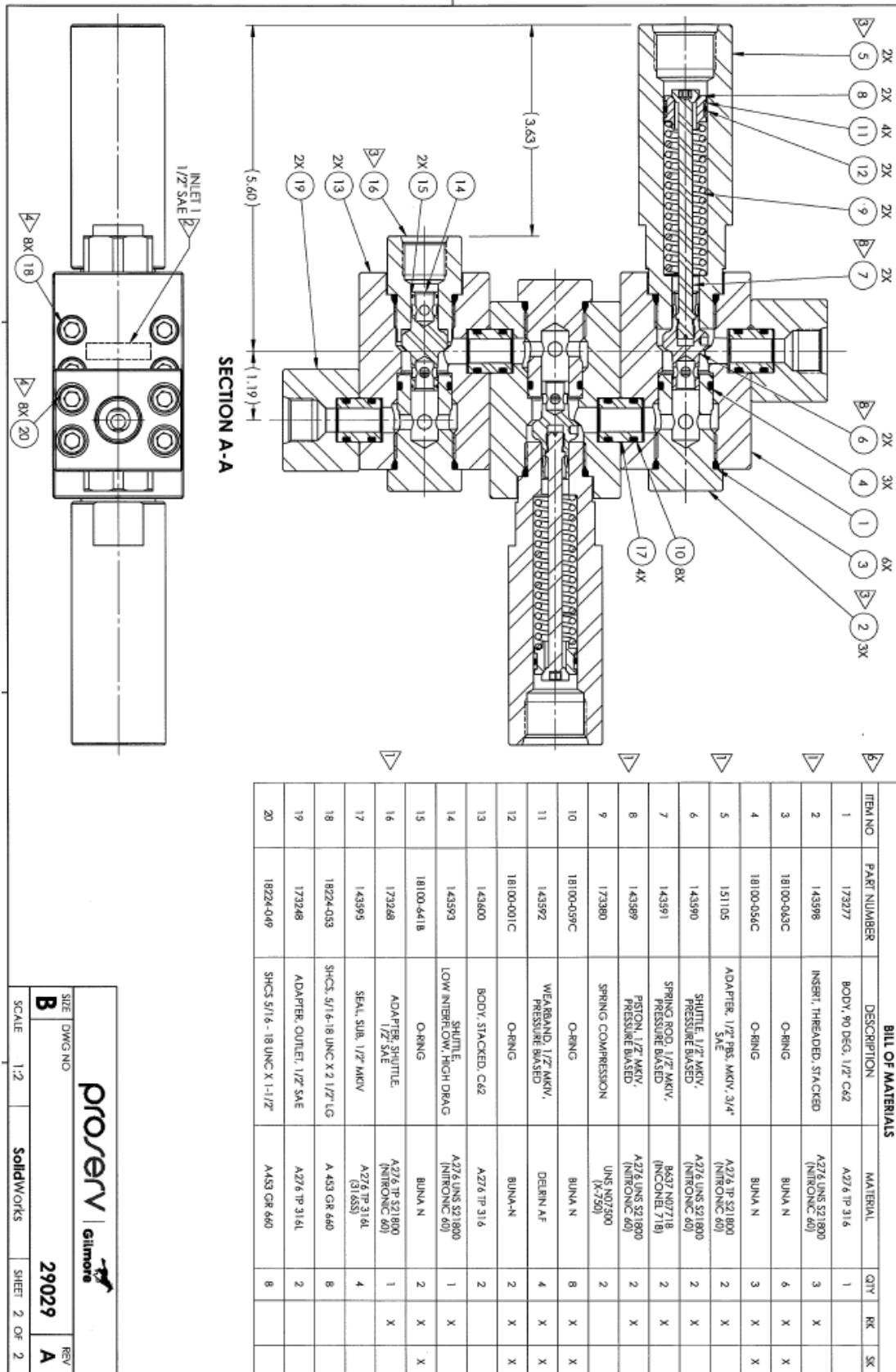


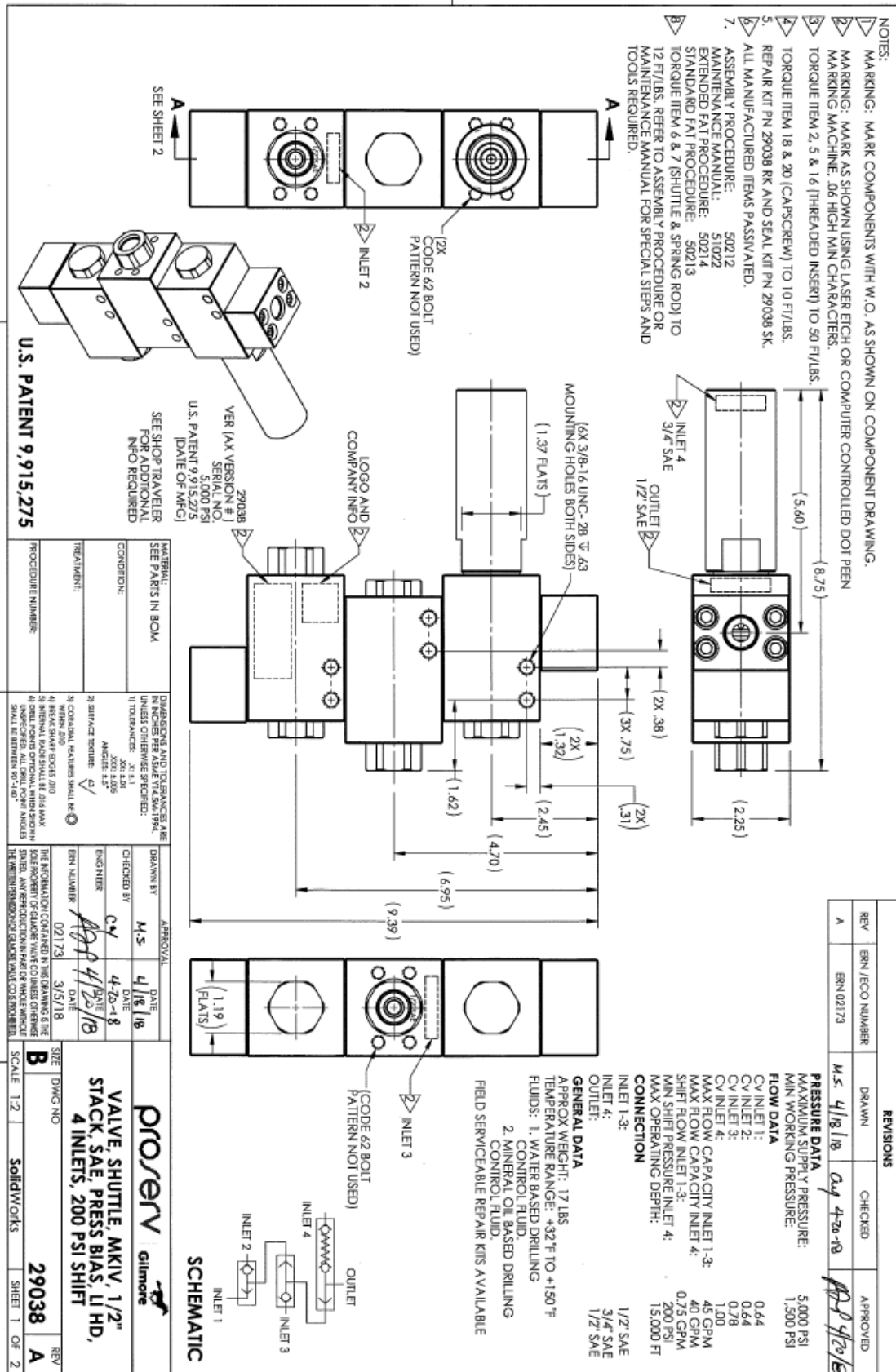


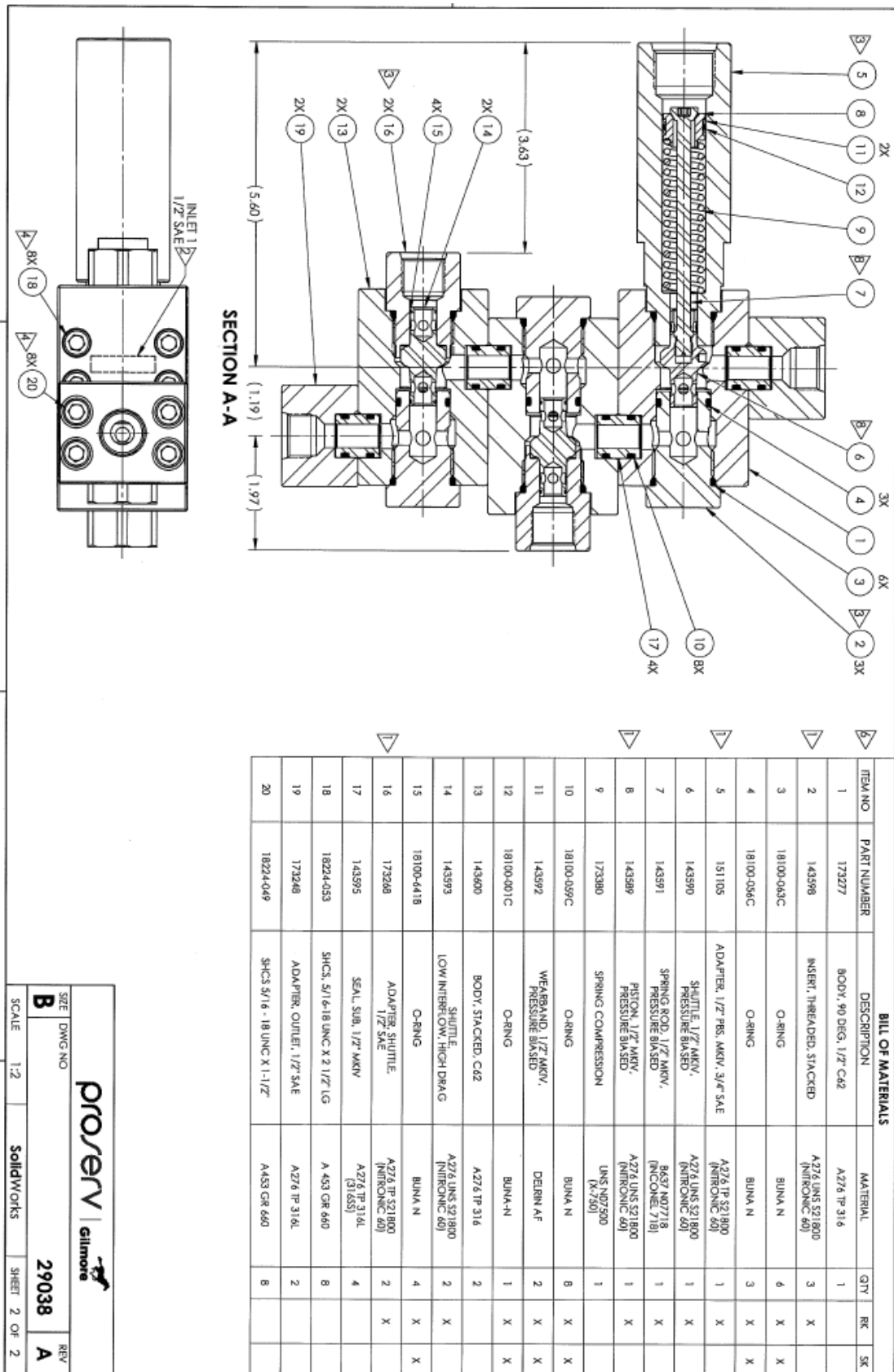


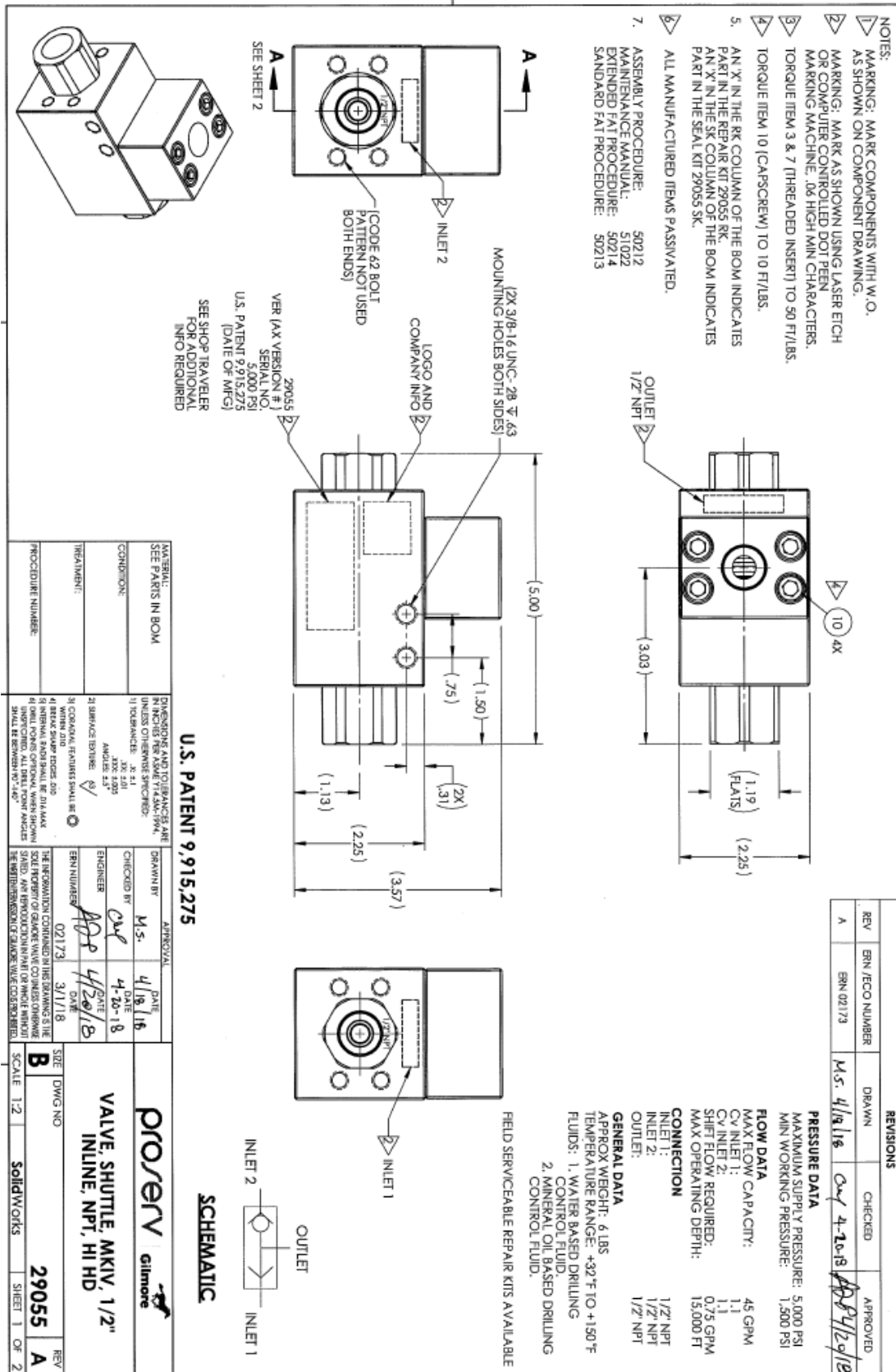


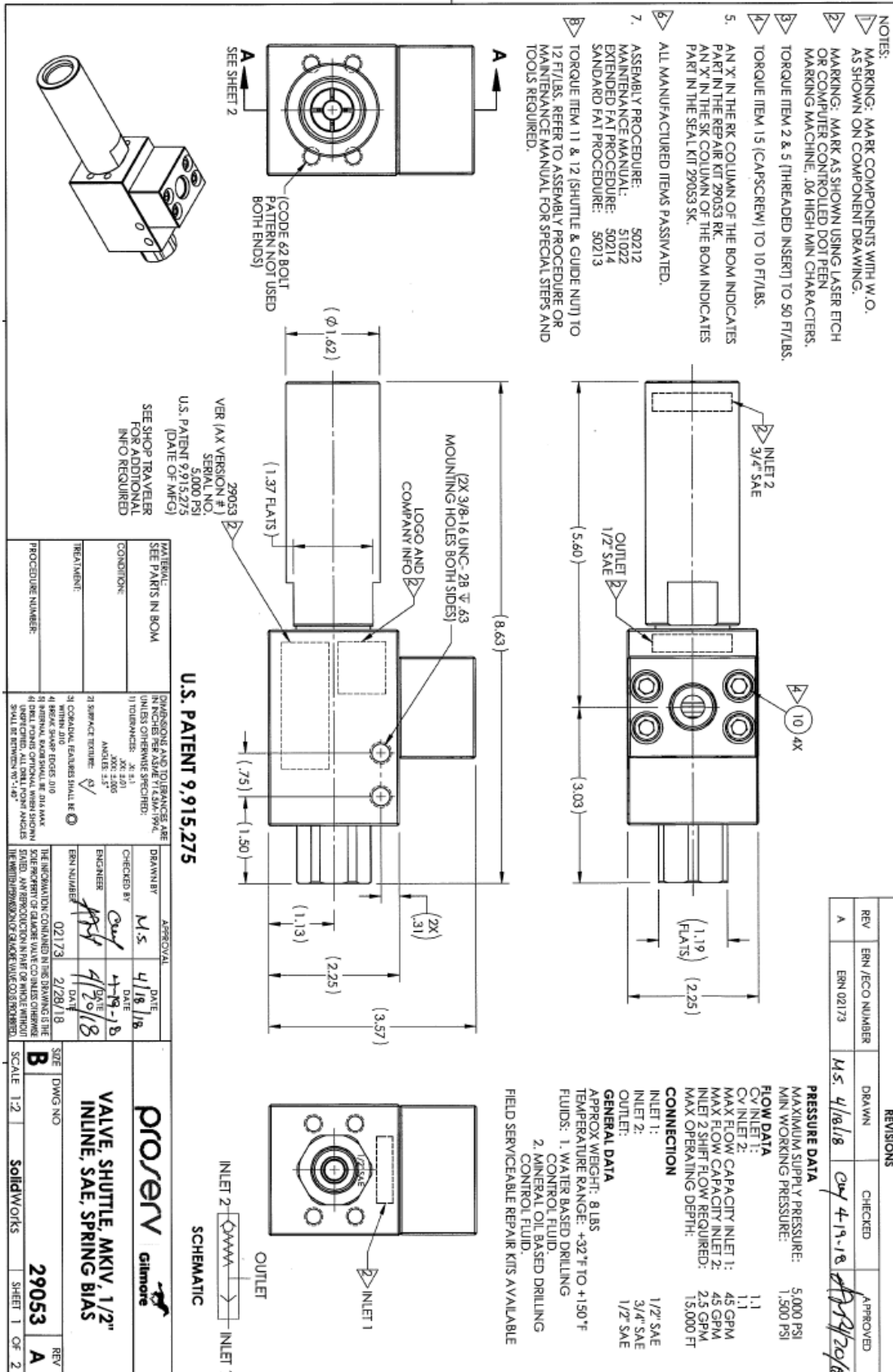


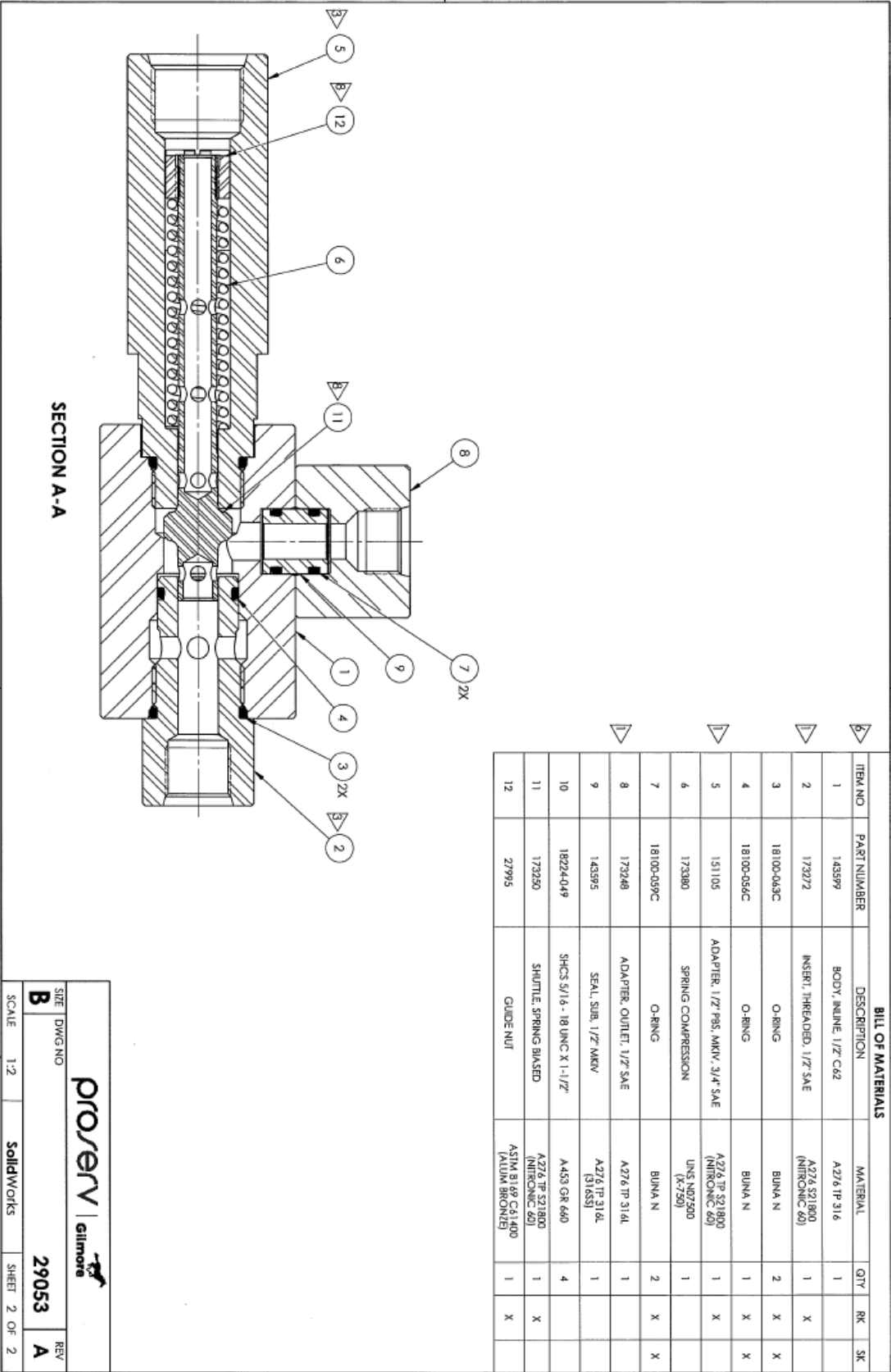


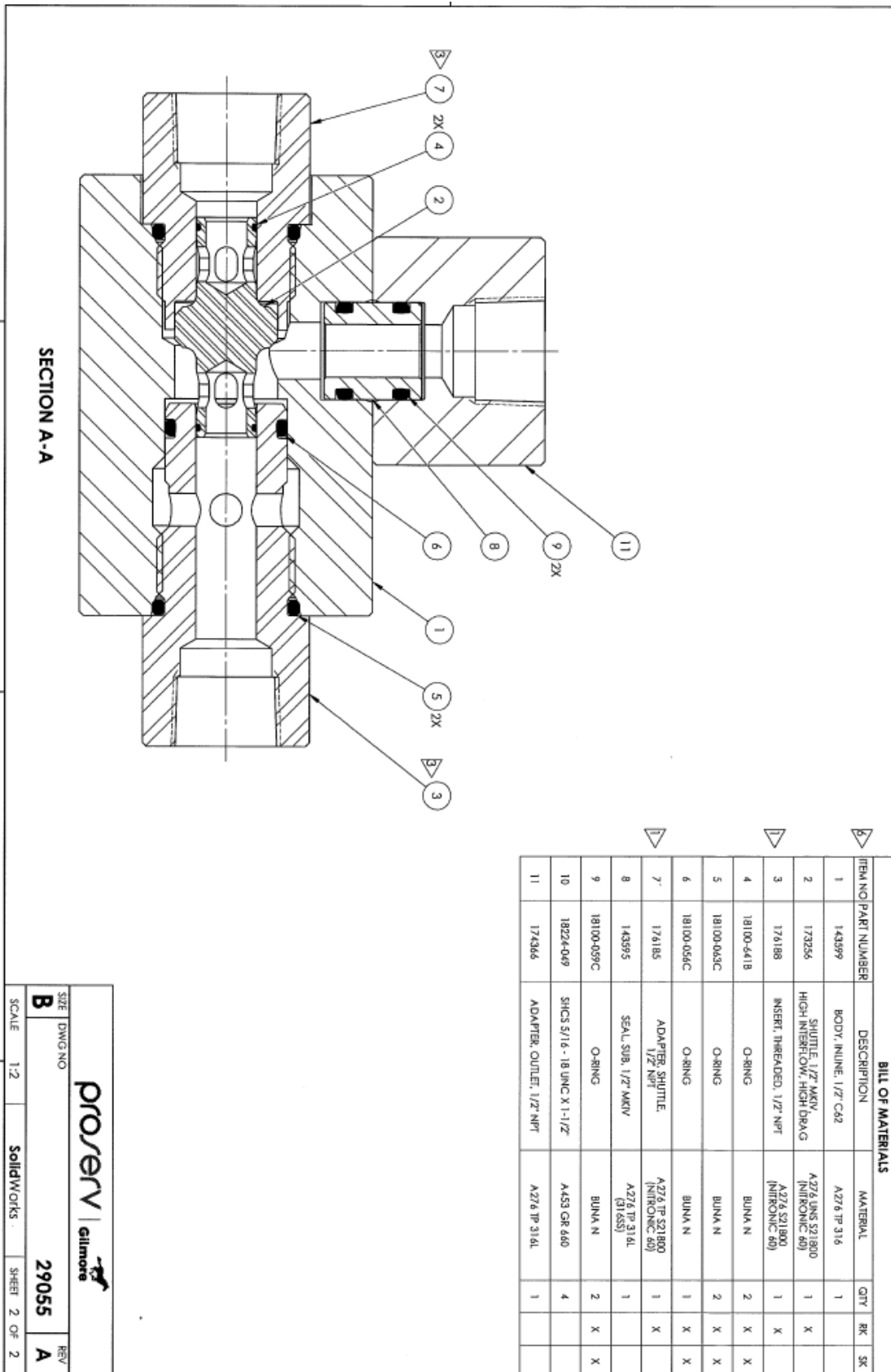


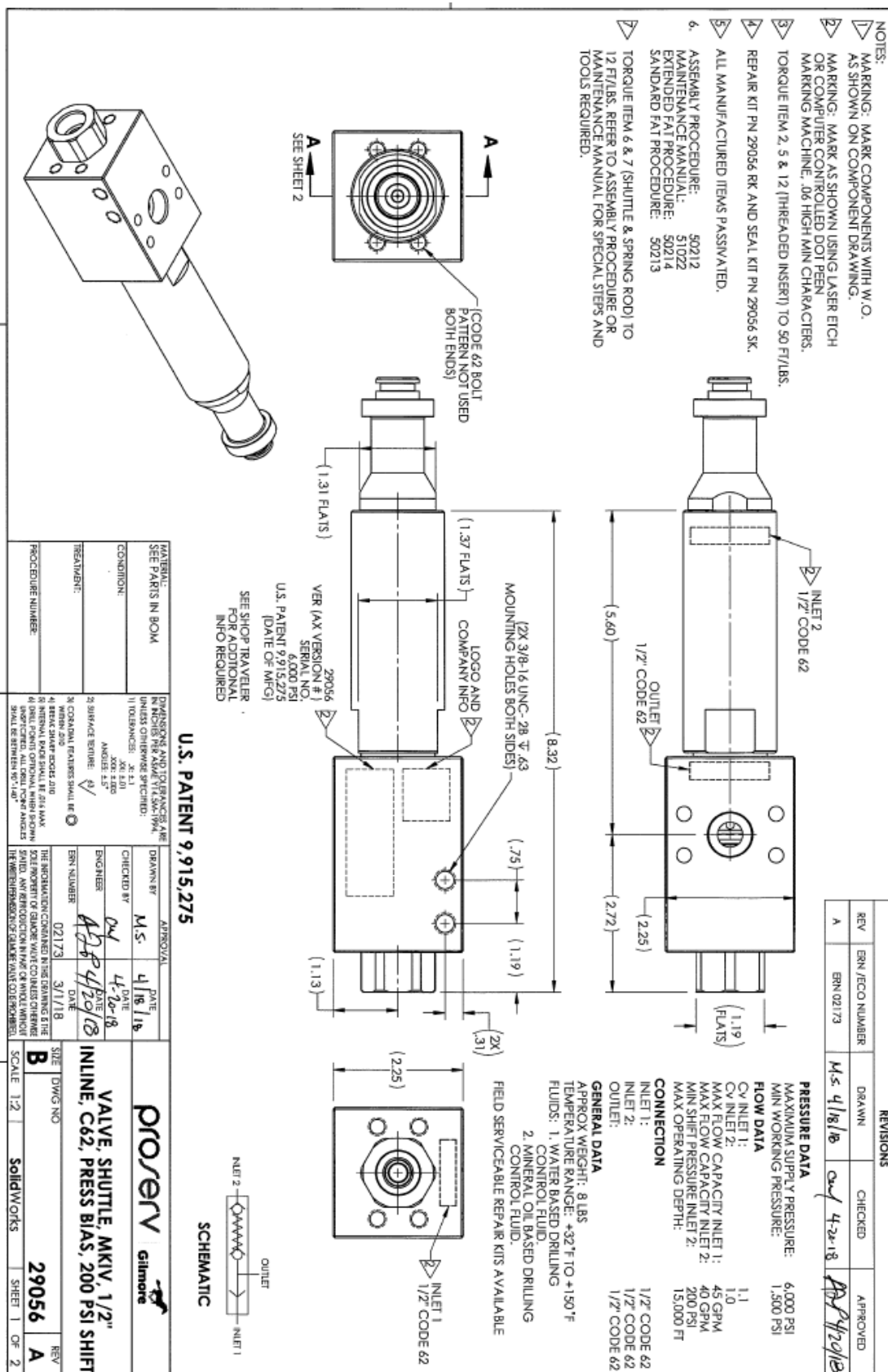




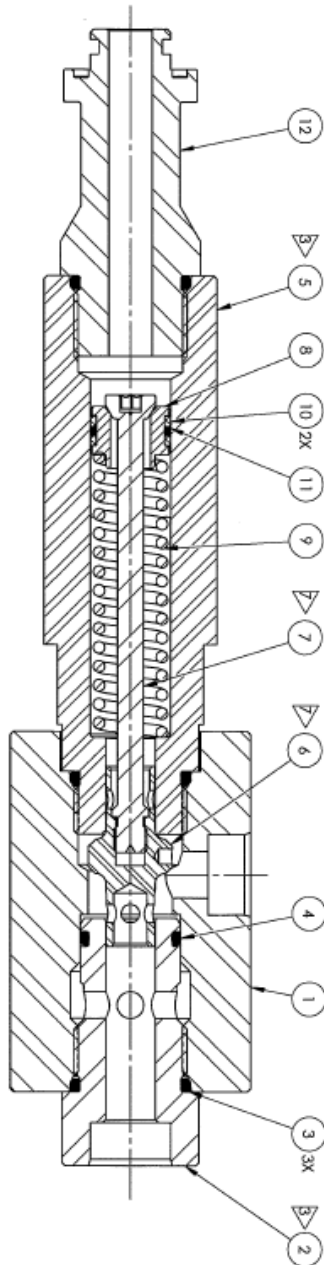








SECTION A-A



BILL OF MATERIALS					
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY	RK
1	14399	BODY, INLINE 1/2" C&Z	A276 TP 316	1	
2	14396	INSERT, THREADED, C&Z	A276 UNS 321800 (NITRONIC 60)	1	X
3	18100-063C	O-RING	BUNA-N	3	X X X
4	18100-066C	O-RING	BUNA-N	1	X X X
5	151105	ADAPTER, 1/2" PBS, MKV, 3/4" SAE	A276 TP 321800 (NITRONIC 60)	1	X
6	14390	SHUTTLE, 1/2" MKV, PRESSURE BIASED	A276 UNS 321800 (NITRONIC 60)	1	X
7	14391	SPRING ROD, 1/2" MKV, PRESSURE BIASED	9637 NO2718 (INCONEL 718)	1	X
8	14389	PISTON, 1/2" MKV, PRESSURE BIASED	A276 UNS 321800 (NITRONIC 60)	1	X
9	173380	SPRING COMPRESSOR	UNS NO7500 (X-750)	1	
10	14392	WEAR BAND, 1/2" MKV, PRESSURE BIASED	DELPH AF	2	X X
11	18100-001C	O-RING	BUNA-N	1	X X
12	173254	ADAPTER, SEAL SUB, 1/2" C&Z	A276 TP316	1	

proserv Gilmore			
SIZE	DWG NO	REV	
B	29056	A	
SCALE	1:2	SolidWorks	SHEET 2 OF 2