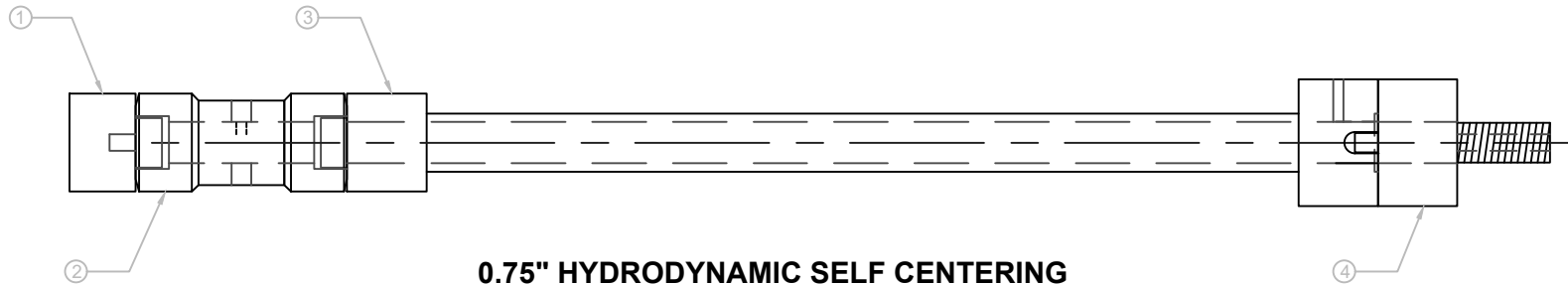


PART NO	PART NAME
1	MANDREL
2	ANNULAR RING
3	COLLAR
4	SPACER

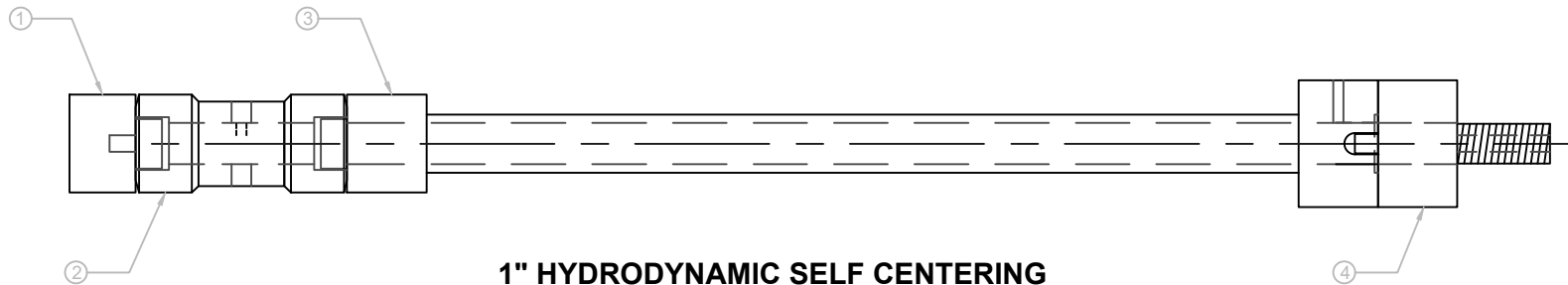


0.75" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL ASSEMBLY DETAIL


0	18.10.10	AM	FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED, DIVULGED, OR MANUFACTURED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM VITAL INDUSTRIAL SOLUTIONS.			
<u>DWG TITLE</u> 0.75" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL DETAILS			
<u>DWG. NO.</u> HDSCIT0.75-ASM	<u>PART NO.</u> -	<u>SCALE</u> NTS	

US PATENT PENDING NO. 62/608,152

PART NO	PART NAME
1	MANDREL
2	ANNULAR RING
3	COLLAR
4	SPACER

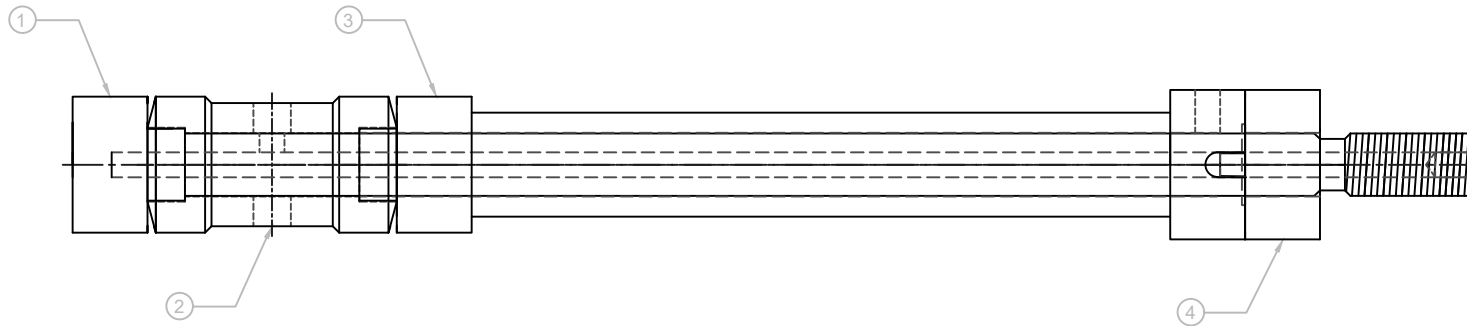


**1" HYDRODYNAMIC SELF CENTERING
ISOLATION AND TEST TOOL ASSEMBLY DETAIL**


0	18.10.10	AM	FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED, DIVULGED, OR MANUFACTURED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM VITAL INDUSTRIAL SOLUTIONS.			
<u>DWG TITLE</u> 1" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL DETAILS			
<u>DWG. NO.</u>	<u>PART NO.</u>	<u>SCALE</u>	<u>REV.</u>
HDSCIT1-ASM	-	NTS	0

US PATENT PENDING NO. 62/608,152

PART NO	PART NAME
1	MANDREL
2	ANNULAR RING
3	COLLAR
4	SPACER

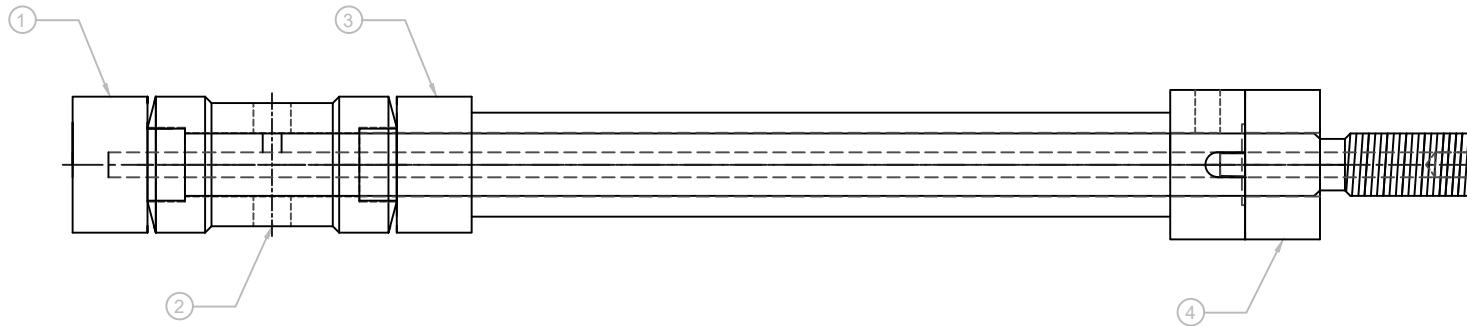


**1.25" HYDRODYNAMIC SELF CENTERING
ISOLATION AND TEST TOOL ASSEMBLY DETAIL**


0	18.08.21	AM	FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION
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<u>DWG TITLE</u> 1.25" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL DETAILS			
<u>DWG. NO.</u>	<u>PART NO.</u>	<u>SCALE</u>	<u>REV.</u>
HDSCIT1.25-ASM	-	NTS	0

US PATENT PENDING NO. 62/608,152

PART NO	PART NAME
1	MANDREL
2	ANNULAR RING
3	COLLAR
4	SPACER

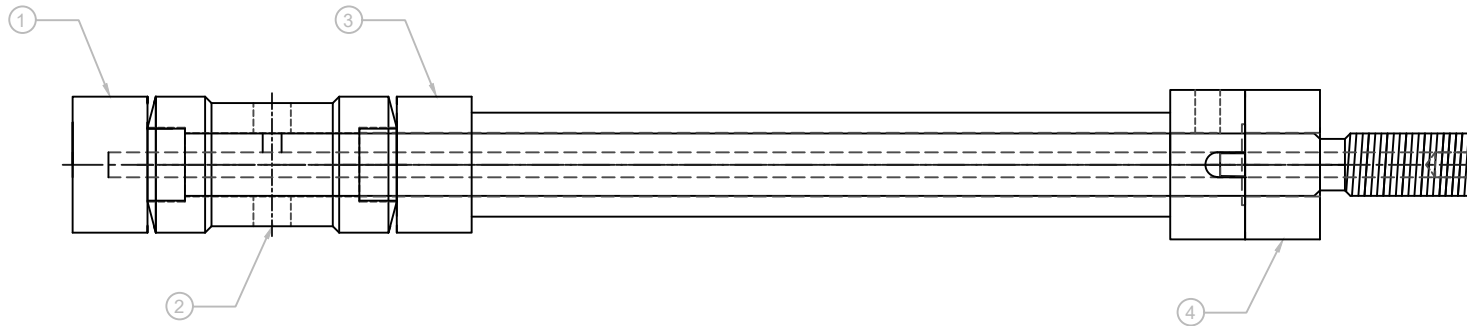


**1.5" HYDRODYNAMIC SELF CENTERING
ISOLATION AND TEST TOOL ASSEMBLY DETAIL**


0	18.10.10	AM	FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION
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<u>DWG TITLE</u> 1.5" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL DETAILS			
<u>DWG. NO.</u>	<u>PART NO.</u>	<u>SCALE</u>	<u>REV.</u>
HDSCIT1.5-ASM	-	NTS	0

US PATENT PENDING NO. 62/608,152

PART NO	PART NAME
1	MANDREL
2	ANNULAR RING
3	COLLAR
4	SPACER

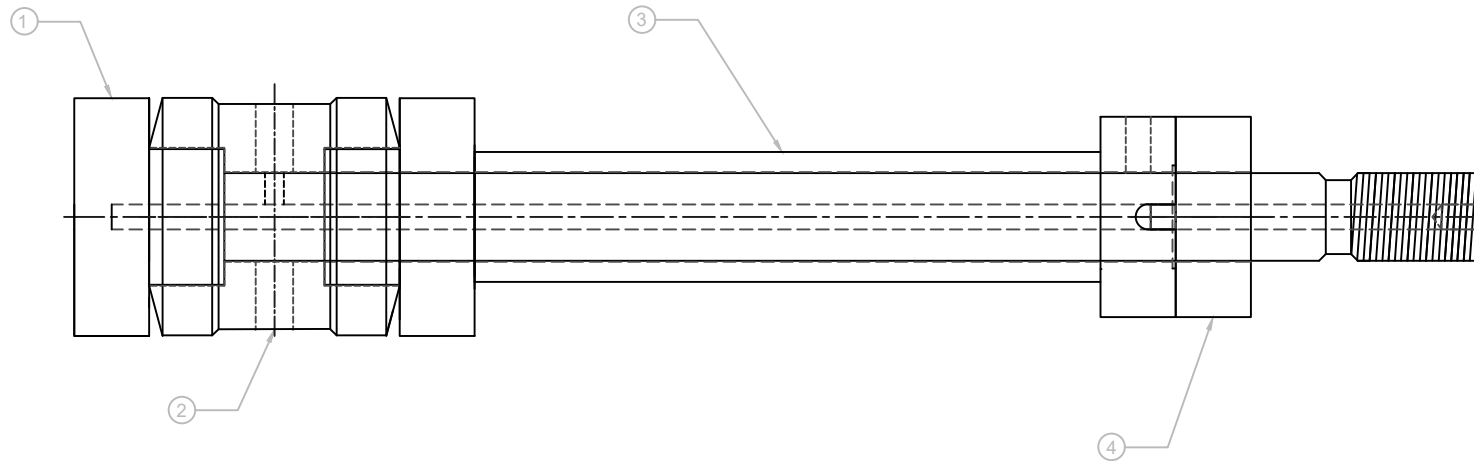


**2" HYDRODYNAMIC SELF CENTERING
ISOLATION AND TEST TOOL ASSEMBLY DETAIL**


0	18.10.10	AM	FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION
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<u>DWG TITLE</u> 2" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL DETAILS			
<u>DWG. NO.</u>	<u>PART NO.</u>	<u>SCALE</u>	<u>REV.</u>
HDSCIT2-ASM	-	NTS	0

US PATENT PENDING NO. 62/608,152

PART NO	PART NAME
1	MANDREL
2	ANNULAR RING
3	COLLAR
4	SPACER

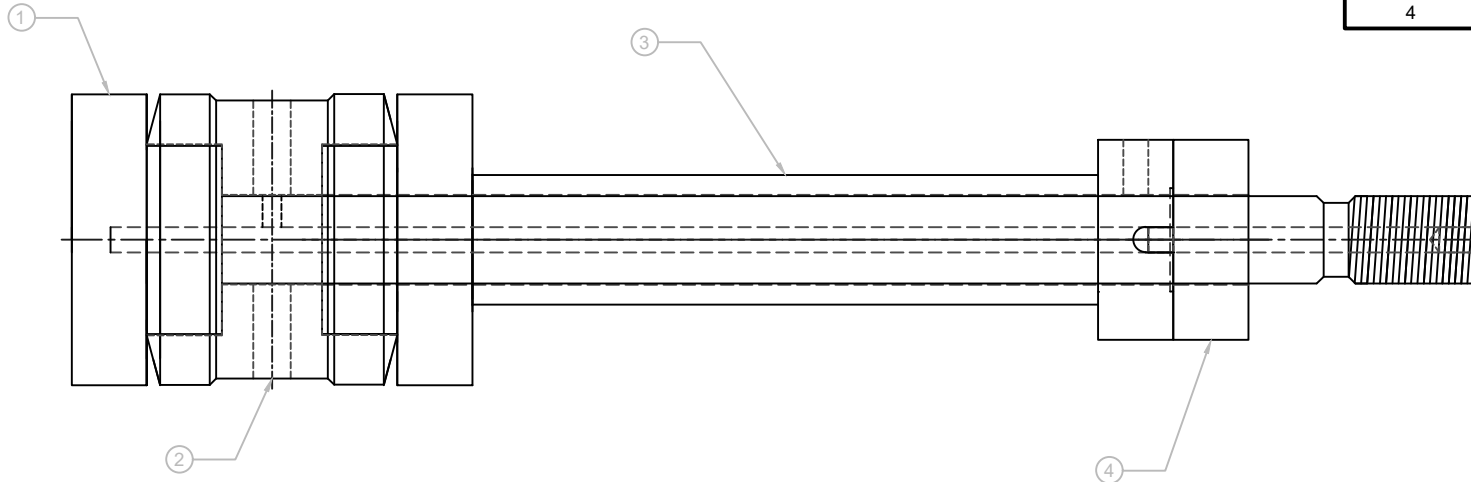


**3" HYDRODYNAMIC SELF CENTERING
ISOLATION AND TEST TOOL ASSEMBLY DETAIL**


0	18.10.10	AM	FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION
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<u>DWG TITLE</u> 3" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL DETAILS			
<u>DWG. NO.</u>	<u>PART NO.</u>	<u>SCALE</u>	<u>REV.</u>
HDSCIT3-ASM	-	NTS	0

US PATENT PENDING NO. 62/608,152

PART NO	PART NAME
1	MANDREL
2	ANNULAR RING
3	COLLAR
4	SPACER



**4" HYDRODYNAMIC SELF CENTERING
ISOLATION AND TEST TOOL ASSEMBLY DETAIL**

0	18.10.10	AM	FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION
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<u>DWG TITLE</u> 4" HYDRODYNAMIC SELF CENTERING ISOLATION AND TEST TOOL DETAILS			
<u>DWG. NO.</u>	<u>PART NO.</u>	<u>SCALE</u>	<u>REV.</u>
HDSCIT4-ASM	-	NTS	0

US PATENT PENDING NO. 62/608,152