

## PPS 316 System Builder Hand Pumps Index for drawings

What do we offer?

Our Micropac® PPS is constructed from 100% 316 stainless steel & polymer. They take up a small space envelope and can be configured with different end connections to be installed in-line on your system.

The basic models of these pumps can be seen without any end connections on pages 2-4.

The inlet thread on the body is a 3/4-16UNF female.  
The outlet thread on the body is a 9/16-18UNF female.

For an overview of possible end connections which can then be fitted to the body of the pump to suit your installation, see page 5 onwards.

For any other requirements please get in contact with us.



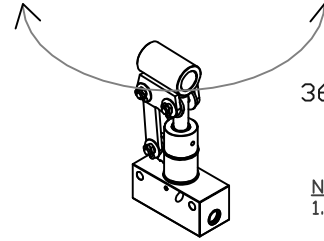
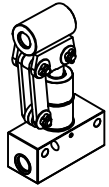
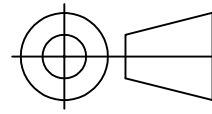
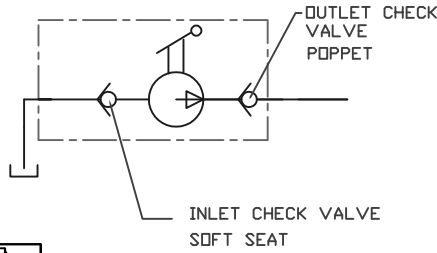
Page	Drawing Number	Description
		<b>Available Pump Models:</b>
2	PPS-43	4.3cc / Double stroke up to 400 Bar max. pressure
3	PPS-80	8.0cc / Double stroke up to 190 Bar max. pressure
4	PPS-11	11cc / Double stroke up to 125 Bar max. pressure
		<b>A Range of threaded adaptors to suit your installation, other options available, please contact the factory</b>
5	908118300	9/16-18UNF Male to 1/4BSP Female(Manometer Gauge)
6	007044300	9/16-18UNF Male to 3/8BSP Female
7	007045500	9/16-18UNF Male to 1/2BSP Female
8	908108200	9/16-18UNF Male to 1/4BSP Male Coned
9	007024400	9/16-18UNF Male to 1/4NPT Female
10	007024500	9/16-18UNF Male to 3/8NPT Female
11	007048600	9/16-18UNF Male to 1/2NPT Female
12	908123100	9/16-18UNF Male to -6JIC Male
13	908124100	9/16-18UNF Male to 1/4 Tube Compression Twin Ferrule
14	489002100	3/4-16UNF Male to 10mm HOSE TAIL
15	489001800	3/4-16UNF Male to 1/4BSP Female
16	489001700	3/4-16UNF Male to 3/8BSP Female
17	489001900	3/4-16UNF Male to 1/4BSP Male Coned
18	489002000	3/4-16UNF Male to 3/8BSP Male Coned
19	007024200	3/4-16UNF Male to 1/4NPT Female
20	489001600	3/4-16UNF Male to 3/8NPT Female
21	489002400	3/4-16UNF Male to -8JIC Male
22	908169300	3/4-16UNF Male to 3/8 Tube Compression Twin Ferrule

IF IN DOUBT, ASK

# THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES NO DEC. PLACE +/-1.0mm  
 ONE DEC. PLACE +/-0.3mm  
 TWO DEC. PLACE +/-0.1mm  
 OTHER ANGLES +/-1°  
 MACHINED DIAMETERS CONCENTRIC WITHIN +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6h (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

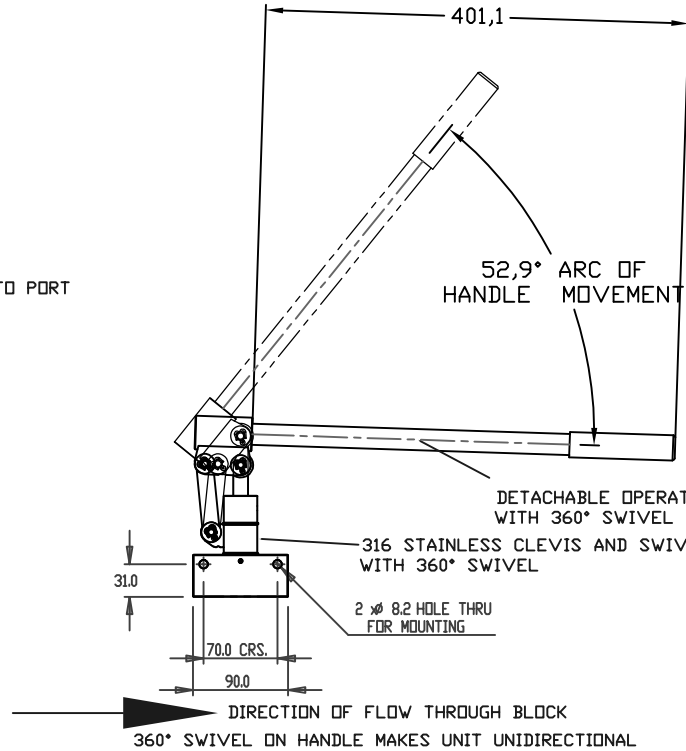
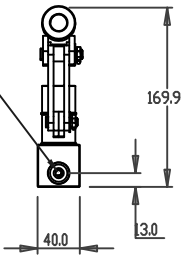
CIRCUIT DIAGRAM



360° SWIVEL ON HANDLE



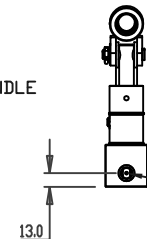
PUMP INLET  
 SOFT SEAT CHECK VALVE  
 THREAD 3/4-16UNF/SAE  
 OPTIONAL 316 ADAPTORS HEXAGON TO SCREW IN TO PORT  
 DOUBLE FERRULE COMPRESSION  
 BSP, NPT, JIC MALE  
 BSP OR NPT FEMALE



NOTES

- IN-LINE HAND PUMP FITTED INLET AND OUTLET CHECK VALVES, 316 STAINLESS STEEL  
 BASIC MODEL HAS 9/16 UNF OUTLET/3/4UNF/SAE INLET  
 RANGE OF OTHER ADAPTORS AVAILABLE AS STANDARD.
- DISPLACEMENT 4.3CC/STROKE SINGLE ACTING TO 400 BAR
- FLUID- MINERAL OIL/WATER/GLYCOLS  
 SINGLE ACTING, PRESSURE ON DOWN STROKE
- INLET PATH TO BE SHORT \* UNCONSTRICTED  
 FIT AN INLET STRAINER
- DIMENSIONS IN mm
- MATERIALS OF CONSTRUCTION  
 STAINLESS STEEL 316 BS970  
 PISTON ROD HARD CHROME PLATED 316  
 ACETAL
- SEAL MATERIAL- NITRILE/PTFE/POLYURETHANE  
 CONSULT FACTORY FOR ALTERNATIVE COMPOUNDS.
- TEMP RANGE -30DEG C TO 80 DEG C
- MASS 2.0 KG EST EXCLUDING HANDLE

HANDLE LOADS AT 400 BAR  
 WITH 450MM -4 HANDLE 466N  
 WITH 625MM -6 HANDLE 336N



PUMP OUTLET  
 INTEGRAL POPPET CHECK VALVE  
 THREAD 9/16-18UNF/SAE  
 OPTIONAL 316 ADAPTORS HEXAGON TO SCREW INTO PORT  
 DOUBLE FERRULE COMPRESSION  
 BSP, NPT, JIC MALE  
 BSP OR NPT FEMALE

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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TITLE  
**PPS-43 SYSTEM BUILDER HANDPUMP INST. DG**

DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	PPS-43
DRAWING NO.	<b>PPS-43</b>

1	FIRST ISSUE	03/23	MATERIAL SEE NOTES
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

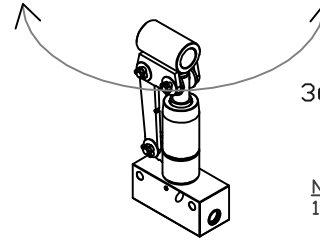
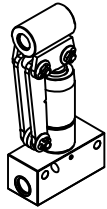
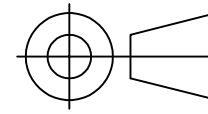
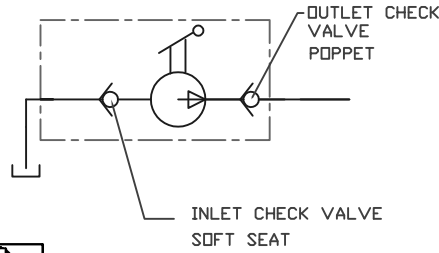
FINISH CLEAN

IF IN DOUBT, ASK

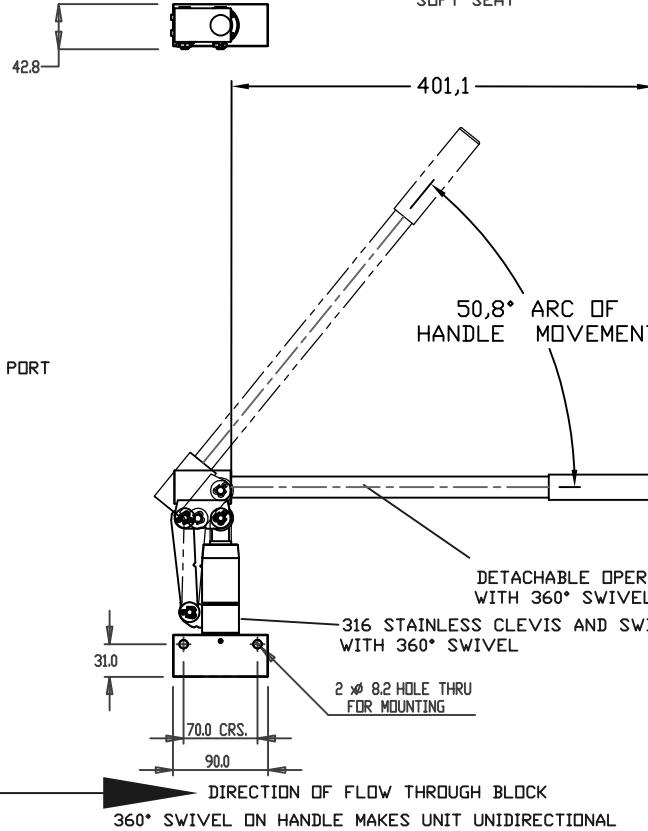
# THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES NO DEC. PLACE +/-1.0mm  
 ONE DEC. PLACE +/-0.3mm  
 TWO DEC. PLACE +/-0.1mm  
 OTHER ANGLES +/-1°  
 MACHINED DIAMETERS CONCENTRIC WITHIN +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6h (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

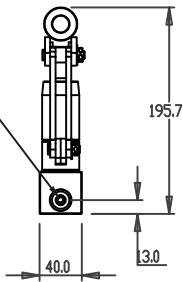
CIRCUIT DIAGRAM



360° SWIVEL ON HANDLE



PUMP INLET  
 SOFT SEAT CHECK VALVE  
 THREAD 3/4-16UNF/SAE  
 OPTIONAL 316 ADAPTORS HEXAGON TO SCREW IN TO PORT  
 DOUBLE FERRULE COMPRESSION  
 BSP, NPT, JIC MALE  
 BSP OR NPT FEMALE



NOTES

1. IN-LINE HAND PUMP FITTED INLET AND OUTLET CHECK VALVES, 316 STAINLESS STEEL  
 BASIC MODEL HAS 9/16 UNF OUTLET/3/4UNF/SAE INLET  
 RANGE OF OTHER ADAPTORS AVAILABLE AS STANDARD.
2. DISPLACEMENT 8CC/STROKE SINGLE ACTING TO 190 BAR
3. FLUID- MINERAL OIL/WATER/GLYCOLS  
 SINGLE ACTING, PRESSURE ON DOWN STROKE
4. INLET PATH TO BE SHORT \* UNCONSTRICTED  
 FIT AN INLET STRAINER
5. DIMENSIONS IN mm
6. MATERIALS OF CONSTRUCTION  
 STAINLESS STEEL 316 BS970  
 PISTON ROD HARD CHROME PLATED 316  
 ACETAL
7. SEAL MATERIAL- NITRILE/PTFE/POLYURETHANE.  
 CONSULT FACTORY FOR ALTERNATIVE COMPOUNDS.
8. TEMP RANGE -30DEG C TO 80 DEG C
9. MASS 2.2 KG EST EXCLUDING HANDLE

HANDLE LOADS AT 190 BAR  
 WITH 450MM -4 HANDLE 452N  
 WITH 625MM -6 HANDLE 325N

PUMP OUTLET  
 INTEGRAL POPPET CHECK VALVE  
 THREAD 9/16-18UNF/SAE  
 OPTIONAL 316 ADAPTORS HEXAGON TO SCREW INTO PORT  
 DOUBLE FERRULE COMPRESSION  
 BSP, NPT, JIC MALE  
 BSP OR NPT FEMALE

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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TITLE  
**PPS-80 SYSTEM BUILDER HANDPUMP INST. DG**

DRAWN NO APP

CHKD

SCALE F SIZE SHEET OF

CAD 2-D PPS-80

DRAWING NO.

**PPS-80**

1	FIRST ISSUE	03/23	MATERIAL SEE NOTES
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

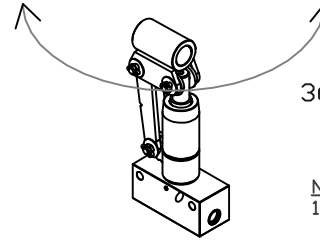
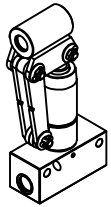
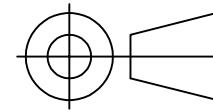
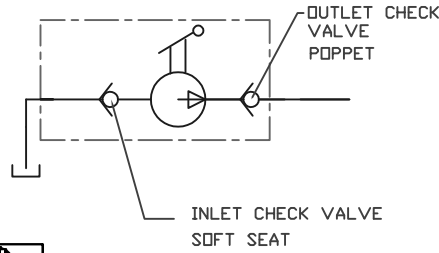
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IF IN DOUBT, ASK

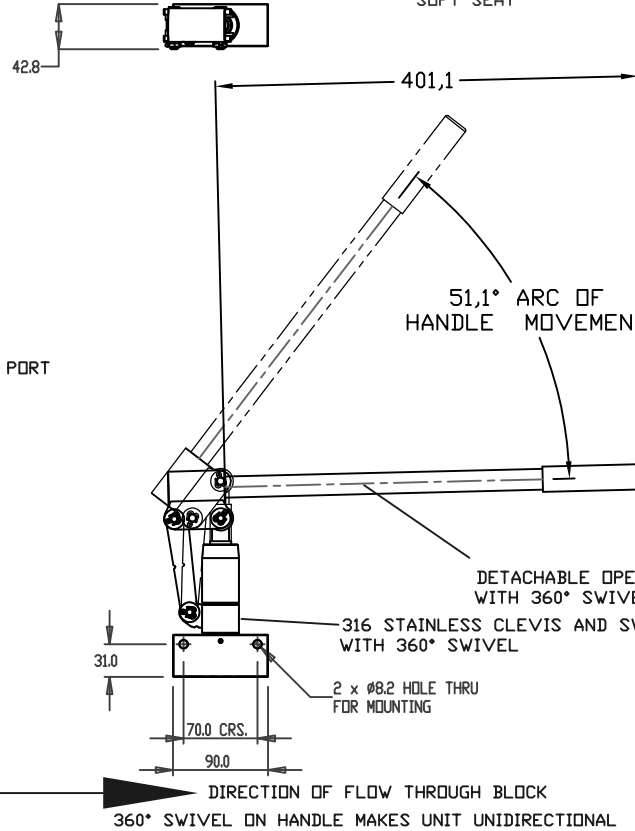
# THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES NO DEC. PLACE +/-1.0mm  
 ONE DEC. PLACE +/-0.3mm  
 TWO DEC. PLACE +/-0.1mm  
 OTHER ANGLES +/-1°  
 MACHINED DIAMETERS CONCENTRIC WITHIN +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6h (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

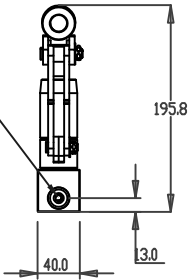
CIRCUIT DIAGRAM



360° SWIVEL ON HANDLE



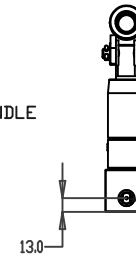
PUMP INLET  
 SOFT SEAT CHECK VALVE  
 THREAD 3/4-16UNF/SAE  
 OPTIONAL 316 ADAPTORS HEXAGON TO SCREW IN TO PORT  
 DOUBLE FERRULE COMPRESSION  
 BSP, NPT, JIC MALE  
 BSP OR NPT FEMALE



NOTES

1. IN-LINE HAND PUMP FITTED INLET AND OUTLET CHECK VALVES, 316 STAINLESS STEEL  
 BASIC MODEL HAS 9/16 UNF OUTLET/3/4UNF/SAE INLET  
 RANGE OF OTHER ADAPTORS AVAILABLE AS STANDARD.
2. DISPLACEMENT 11CC/STROKE SINGLE ACTING TO 125 BAR
3. FLUID- MINERAL OIL/WATER/GLYCOLS  
 SINGLE ACTING, PRESSURE ON DOWN STROKE
4. INLET PATH TO BE SHORT \* UNCONSTRICTED  
 FIT AN INLET STRAINER
5. DIMENSIONS IN mm
6. MATERIALS OF CONSTRUCTION  
 STAINLESS STEEL 316 BS970  
 PISTON ROD HARD CHROME PLATED 316  
 ACETAL
7. SEAL MATERIAL- NITRILE/PTFE/POLYURETHANE  
 CONSULT FACTORY FOR ALTERNATIVE COMPOUNDS.
8. TEMP RANGE -30DEG C TO 80 DEG C
9. MASS 2.2 KG EST EXCLUDING HANDLE

HANDLE LOADS AT 125 BAR  
 WITH 450MM -4 HANDLE 385N  
 WITH 625MM -6 HANDLE 277N



PUMP OUTLET  
 INTEGRAL POPPET CHECK VALVE  
 THREAD 9/16-18UNF/SAE  
 OPTIONAL 316 ADAPTORS HEXAGON TO SCREW INTO PORT  
 DOUBLE FERRULE COMPRESSION  
 BSP, NPT, JIC MALE  
 BSP OR NPT FEMALE

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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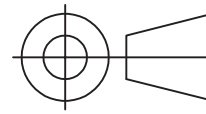
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TITLE  
**PPS-11 SYSTEM BUILDER HANDPUMP INST. DG**

DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D PPS-11	
DRAWING NO.	
<b>PPS-11</b>	

1	FIRST ISSUE	03/23	MATERIAL SEE NOTES
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
			FINISH CLEAN

IF IN DOUBT, ASK THIRD ANGLE PROJECTION

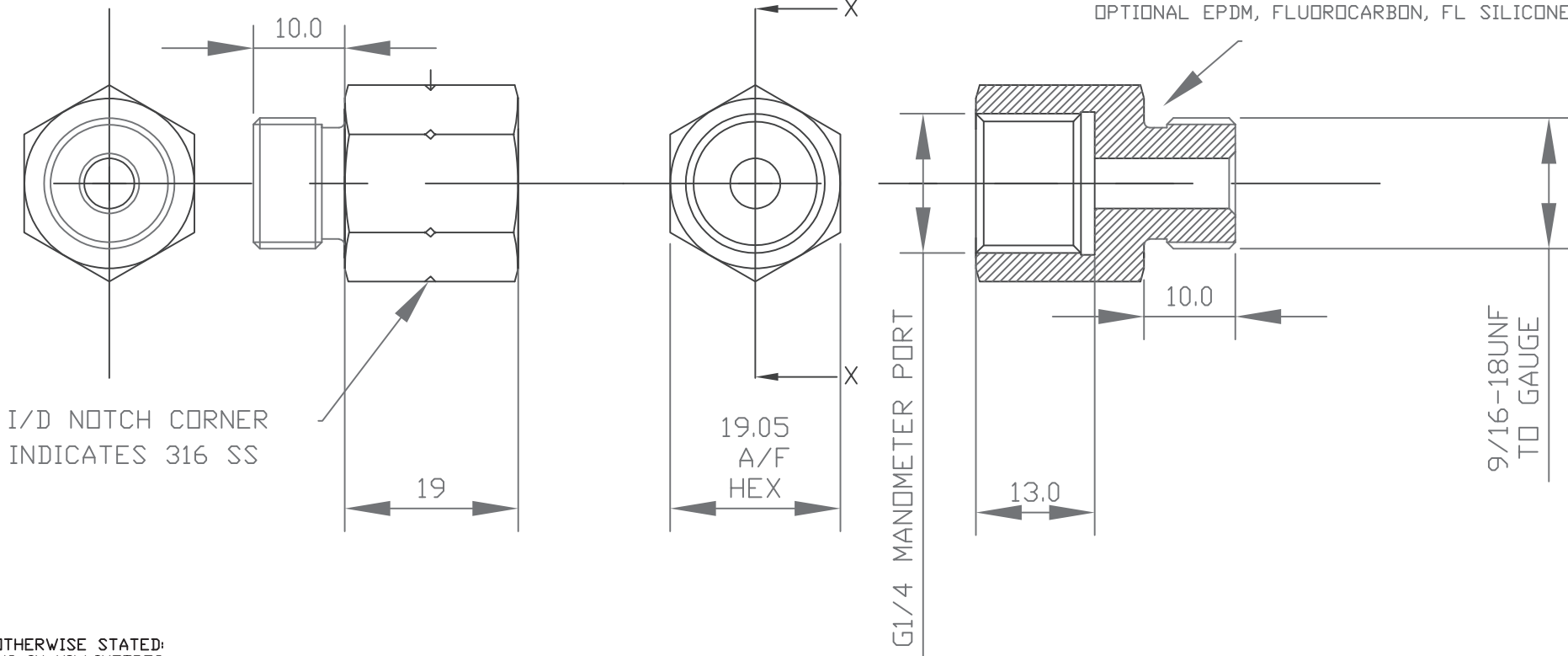


TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

	PART DESCRIPTION
908118300	STOCK PART
908118309	DRAWING FOR CODIFICATION
	ORDER ON "00" NUMBER

SECTION X-X

BS906 O RING NITRILE SUPPLIED FOR SAE SEAL  
 OPTIONAL EPDM, FLUOROCARBON, FL SILICONE



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 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN	JGF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	908118309	

TITLE  
**ADAPTOR 9/16UNF to G1/4 MANO CODIFICATION**

DRAWING NO.  
**908118309**

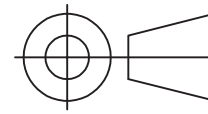
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

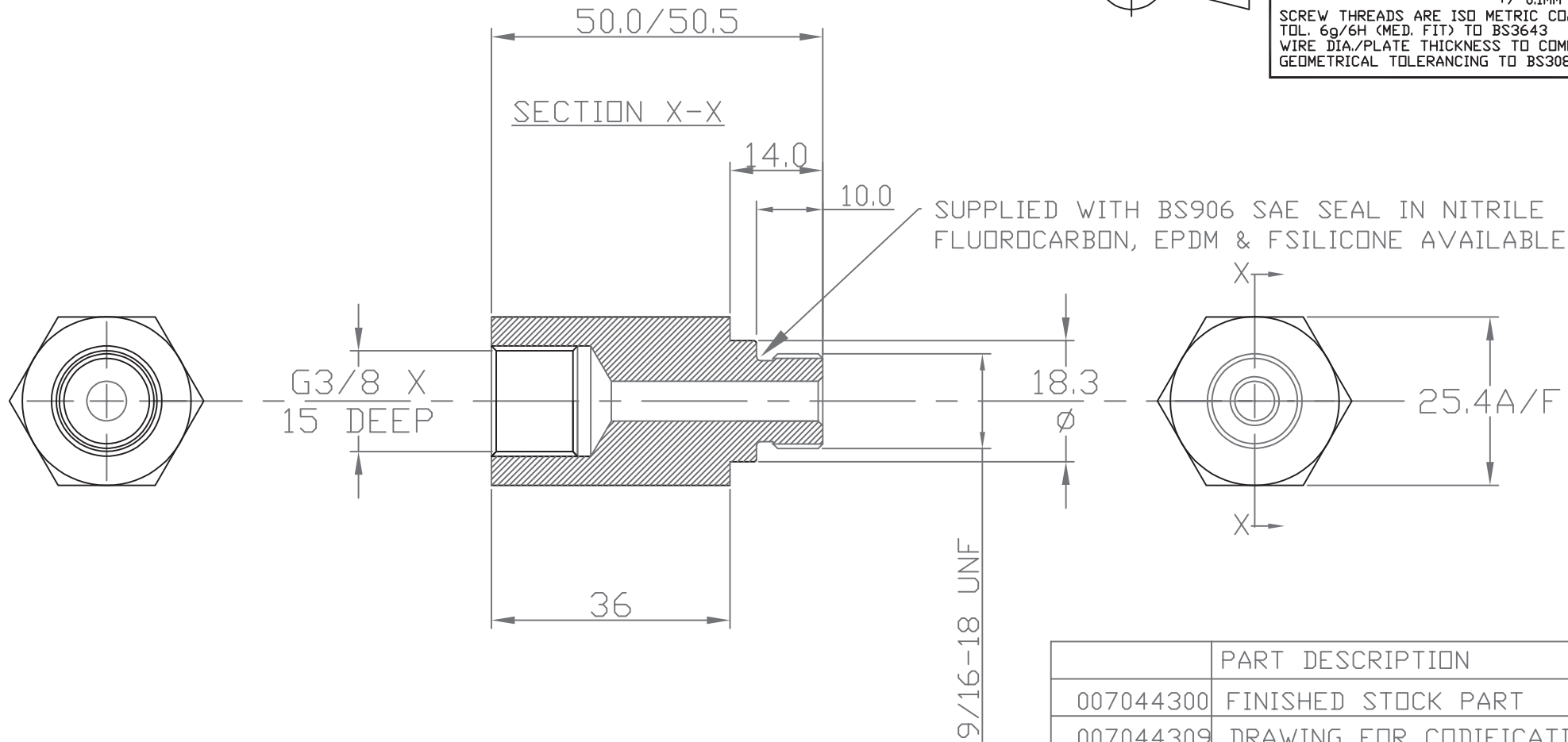
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
2	1610261	ADDED I/D NOTCH	10/16
1		FIRST ISSUE	08/16

IF IN DOUBT, ASK

THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



	PART DESCRIPTION
007044300	FINISHED STOCK PART
007044309	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN	JGF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	007044309	
DRAWING NO.		007044309	

TITLE  
 OUTLET ADAPTOR 9/16UNF TO 3/8BSP FEMALE 316 CODIFICATION

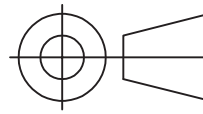
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

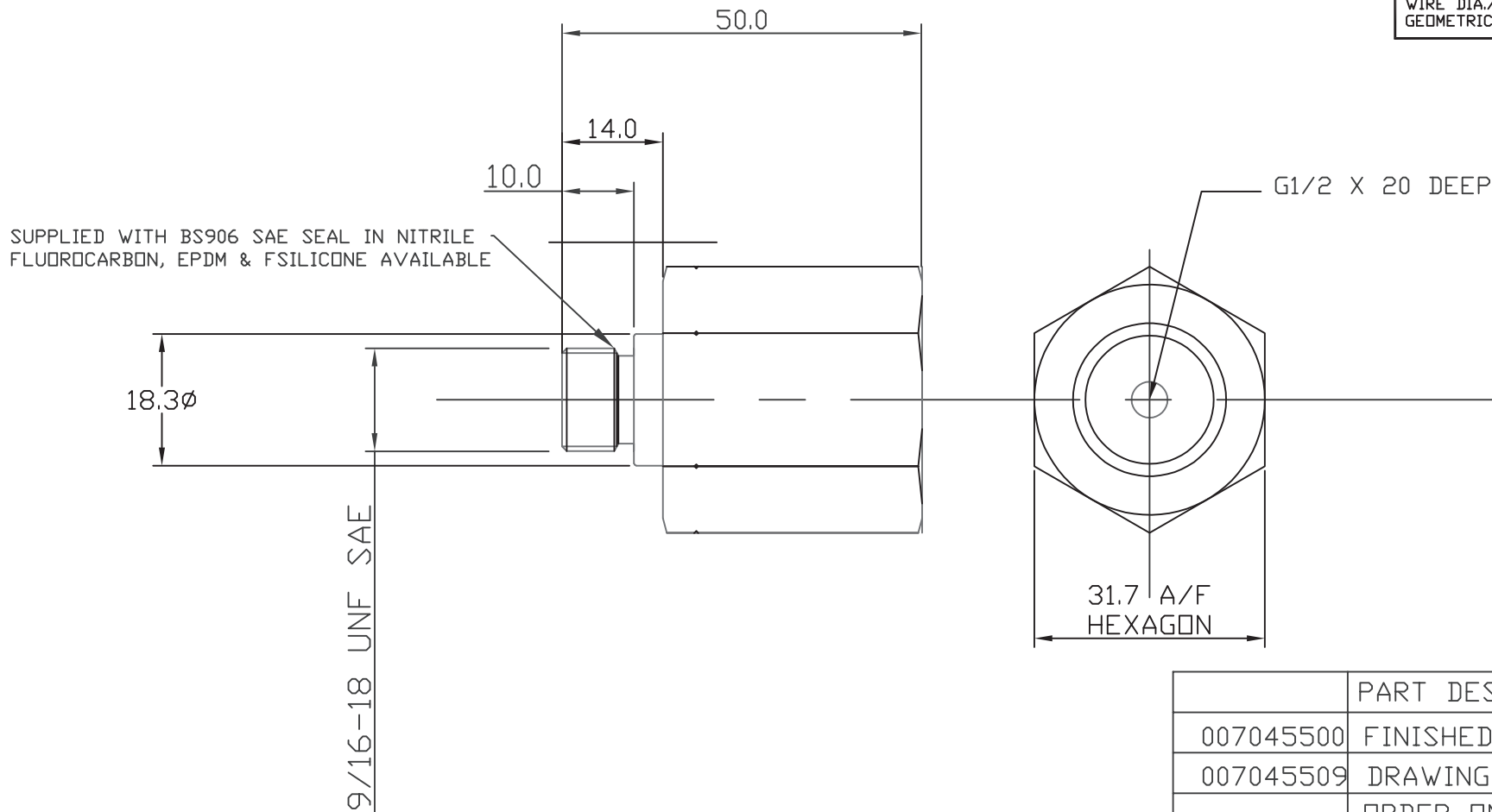
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	05/12

IF IN DOUBT, ASK

THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



	PART DESCRIPTION
007045500	FINISHED STOCK PART
007045509	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN	JGF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD 2-D	007045509		
DRAWING NO.		007045509	

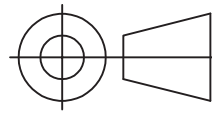
TITLE  
 OUTLET ADAPTOR 9/16UNF TO 1/2BSP FEMALE 316 CODIFICATION

MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

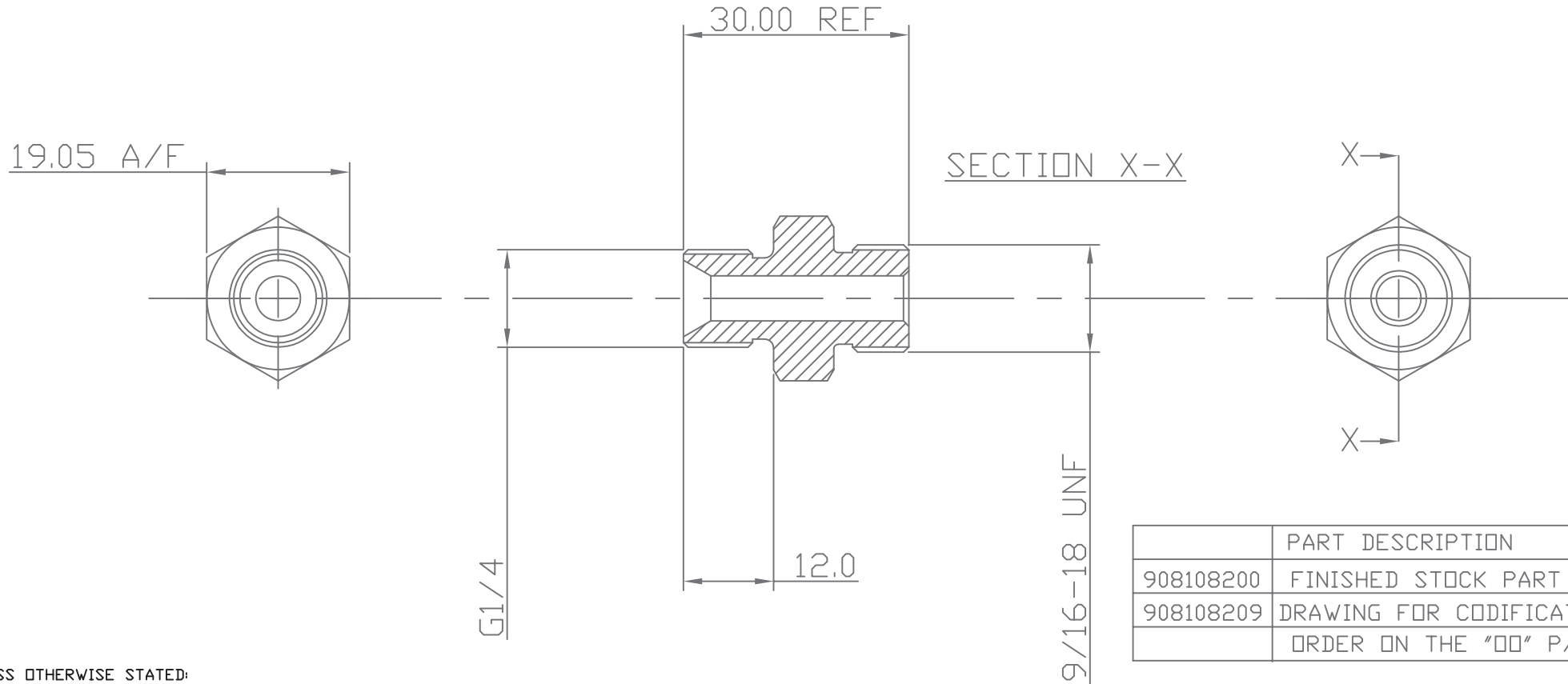
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	08/19

# IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

MEMO 60207573



PART DESCRIPTION	
908108200	FINISHED STOCK PART
908108209	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN	JGF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	908108209	
DRAWING NO.	908108209		

TITLE  
 OUTLET ADAPTOR G1/4 MALE CONED 316 CATALOGUE CODIFICATION

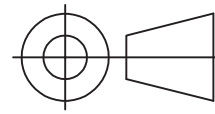
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	02/08



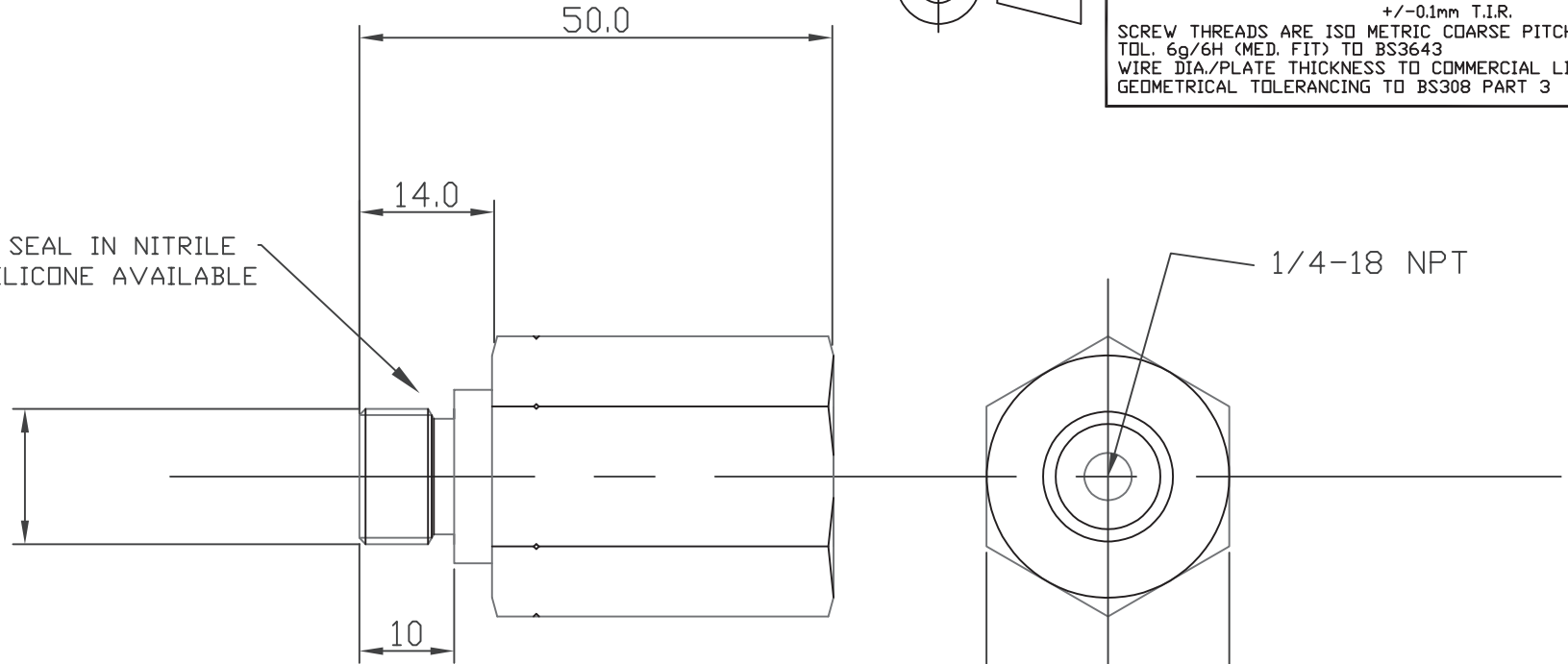
IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

SUPPLIED WITH BS906 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

9/16-18 UNF / SAE



	PART DESCRIPTION
007024400	FINISHED STOCK PART
007024409	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN	JGF	APP	
		CHKD	
SCALE	F	SIZE	SHEET OF
CAD 2-D	007024409		
DRAWING NO.			
007024409			

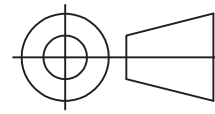
TITLE  
 OUTLET ADAPTOR 9/16UNF TO 1/4NPT 316 CODIFICATION

MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	08/15

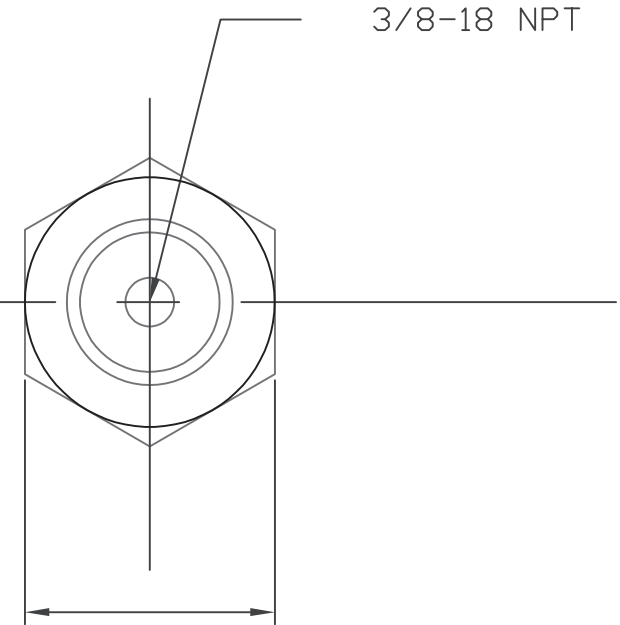
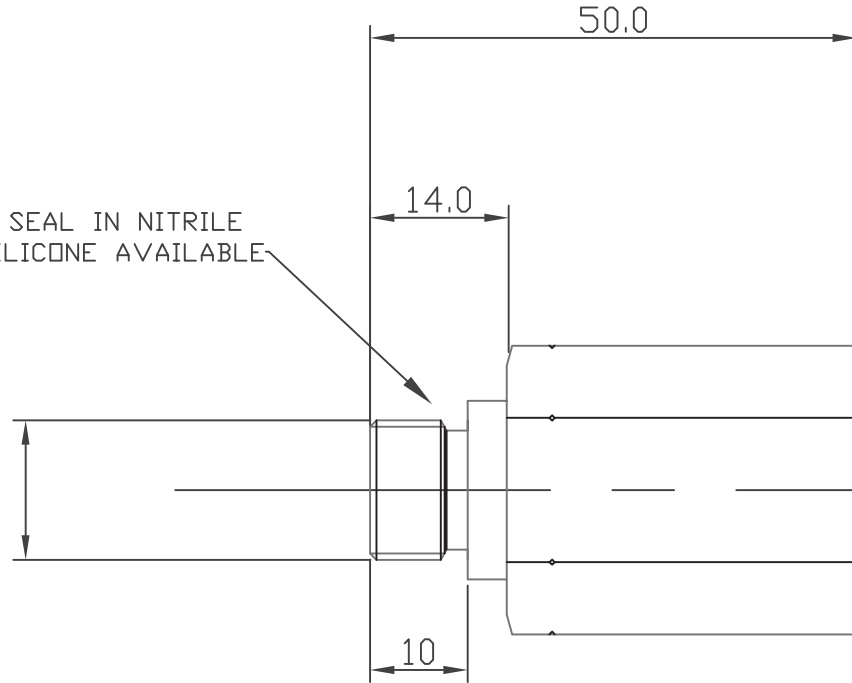
IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

SUPPLIED WITH BS906 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

9/16-18 UNF /SAE



	PART DESCRIPTION
007024500	FINISHED STOCK PART
007024509	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	007024509	
DRAWING NO.		007024509	

TITLE  
 OUTLET ADAPTOR 3/8NPT FEMALE 316 CODIFICATION

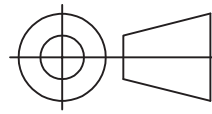
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

1		FIRST ISSUE	04/21
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

IF IN DOUBT, ASK

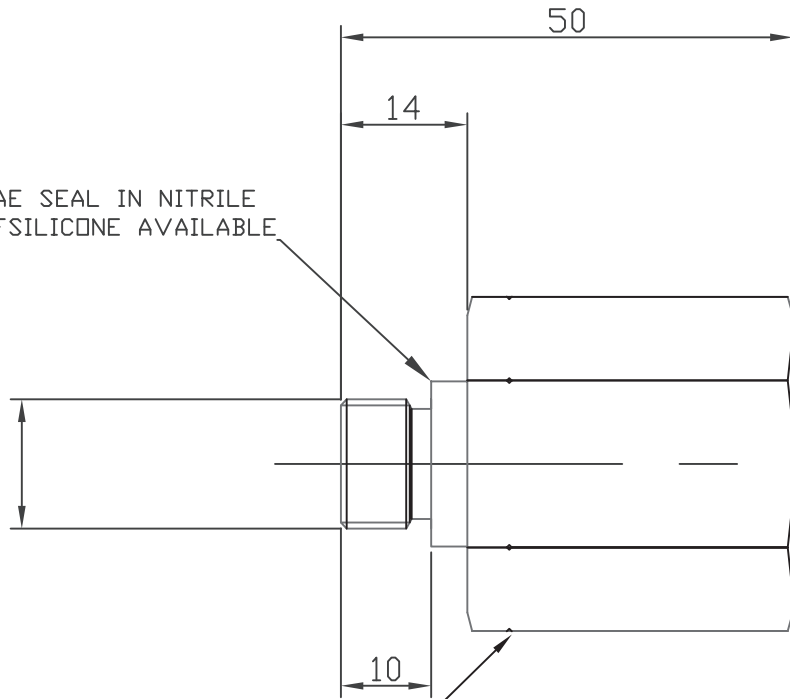
THIRD ANGLE PROJECTION



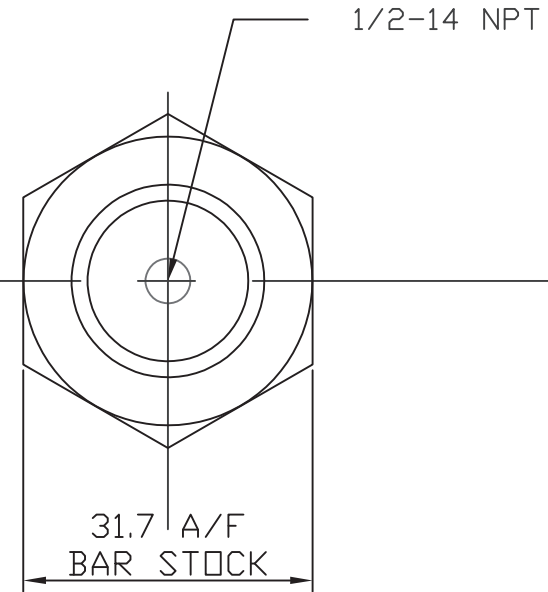
TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

SUPPLIED WITH BS906 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

9/16-18 UNF SAE



NOTCH I/D FOR 316 STAINLESS



	PART DESCRIPTION
007048600	FINISHED STOCK PART
007048609	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

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 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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		CHKD	
SCALE	F	SIZE	SHEET OF
CAD	2-D	007048609	
DRAWING NO.		007048609	

TITLE  
 OUTLET ADAPTOR 1/2NPT 316 CODIFICATION

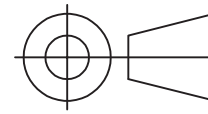
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	09/08

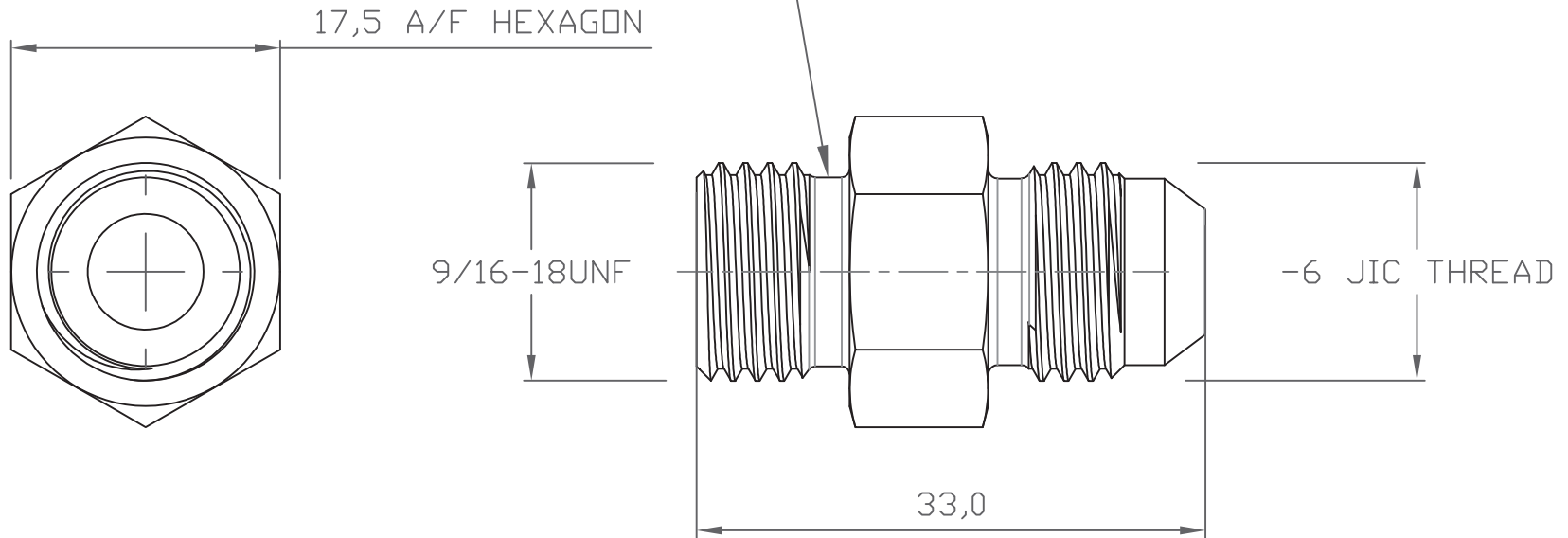
IF IN DOUBT, ASK

THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

SUPPLIED WITH BS906 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE



	PART DESCRIPTION
908123100	FINISHED STOCK PART
908123109	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	908123109
DRAWING NO.	
908123109	

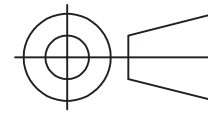
TITLE  
**OUTLET ADAPTOR -6JIC MALE 316 CATALOGUE CODIFICATION**

MATERIAL STAINLESS STEEL 316 1.4404

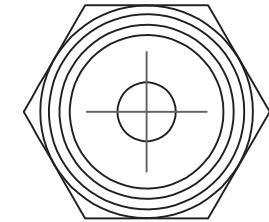
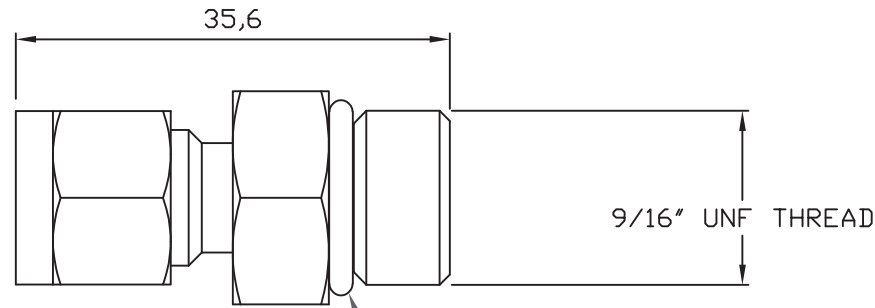
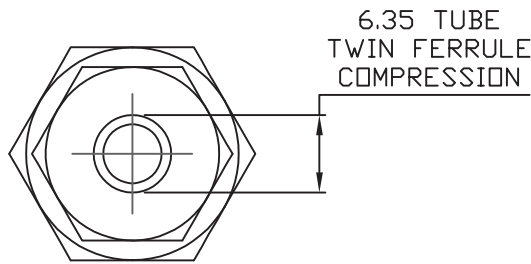
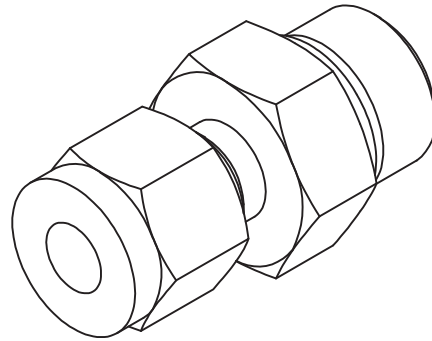
FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21

IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES NO DEC. PLACE +/-1.0mm ONE DEC. PLACE +/-0.3mm TWO DEC. PLACE +/-0.1mm  
 RIGHT ANGLE BENDS & OTHER ANGLES +/-1° MACHINED DIAMETERS CONCENTRIC WITHIN +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS GEOMETRICAL TOLERANCING TO BS308 PART 3



SUPPLIED WITH BS906 SAE SEAL IN NITRILE FLUOROCARBON, EPDM & FSILICONE AVAILABLE

	PART DESCRIPTION
908124100	FINISHED STOCK PART
908124109	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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TITLE  
 OUTLET ADAPTOR Ø6.35 TUBE 316 CATALOGUE CODIFICATION

MATERIAL STAINLESS STEEL 316 1.4404

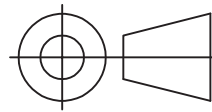
FINISH CLEAN, DEBURR

DRAWN NO	APP
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CAD 2-D	908124109
DRAWING NO.	
908124109	

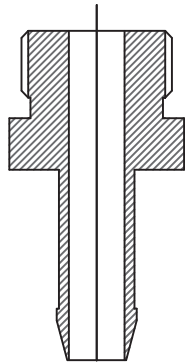
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21

IF IN DOUBT, ASK

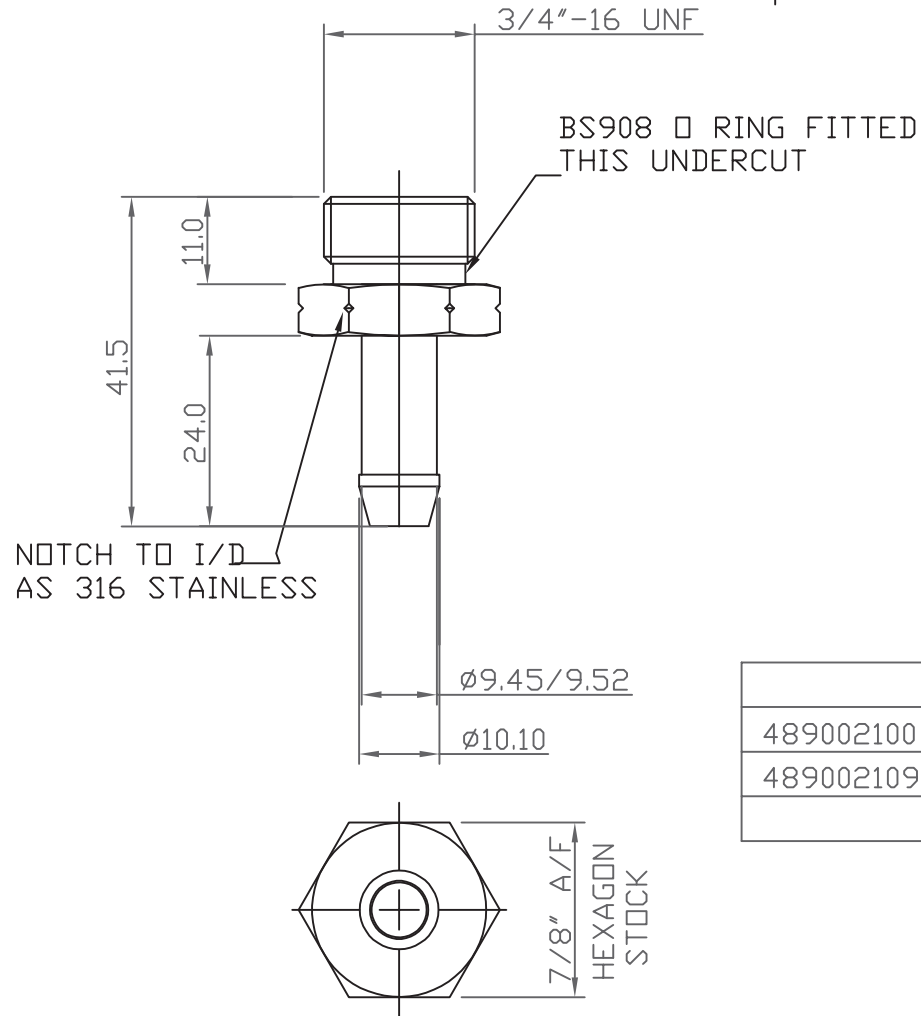
THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



SECTION THRO' CENTRELINE



	PART DESCRIPTION
489002100	FINISHED STOCK PART
489002109	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	489002109
DRAWING NO.	

TITLE  
**INLET HOSE CONNECTOR CATALOGUE CODIFICATION**

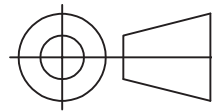
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1	FIRST ISSUE	04/21
ISSUE	D.C.N. CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED

MATERIAL STAINLESS STEEL 316 1.4404  
 FINISH CLEAN, DEBURR

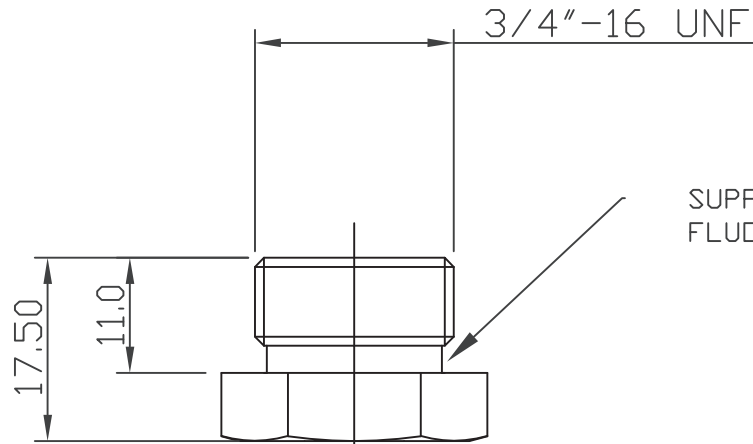
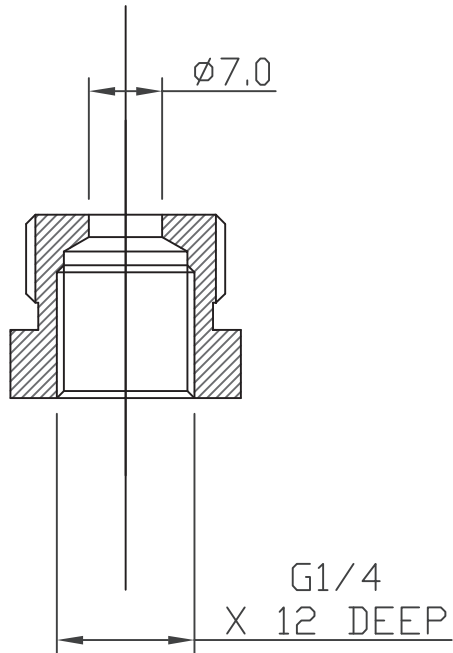
IF IN DOUBT, ASK

THIRD ANGLE PROJECTION

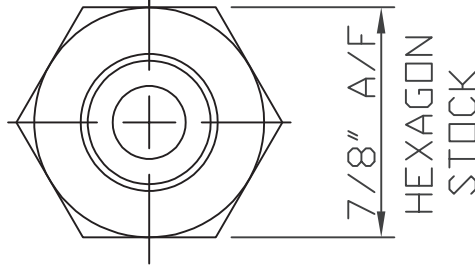


TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

SECTION THRO'  
CENTRELINE



SUPPLIED WITH BS908 SAE SEAL IN NITRILE  
FLUOROCARBON, EPDM & FSILICONE AVAILABLE



	PART DESCRIPTION
489001800	FINISHED STOCK PART
489001809	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
DIMENSIONS IN MILLIMETRES  
SURFACE FINISH IN MICROMETRES  
REMOVE SHARP EDGES

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TITLE  
INLET ADAPTOR G1/4 316 CATALOGUE CODIFICATION

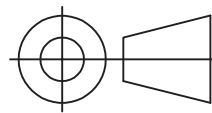
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	489001809
DRAWING NO.	
489001809	

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21

# IF IN DOUBT, ASK THIRD ANGLE PROJECTION

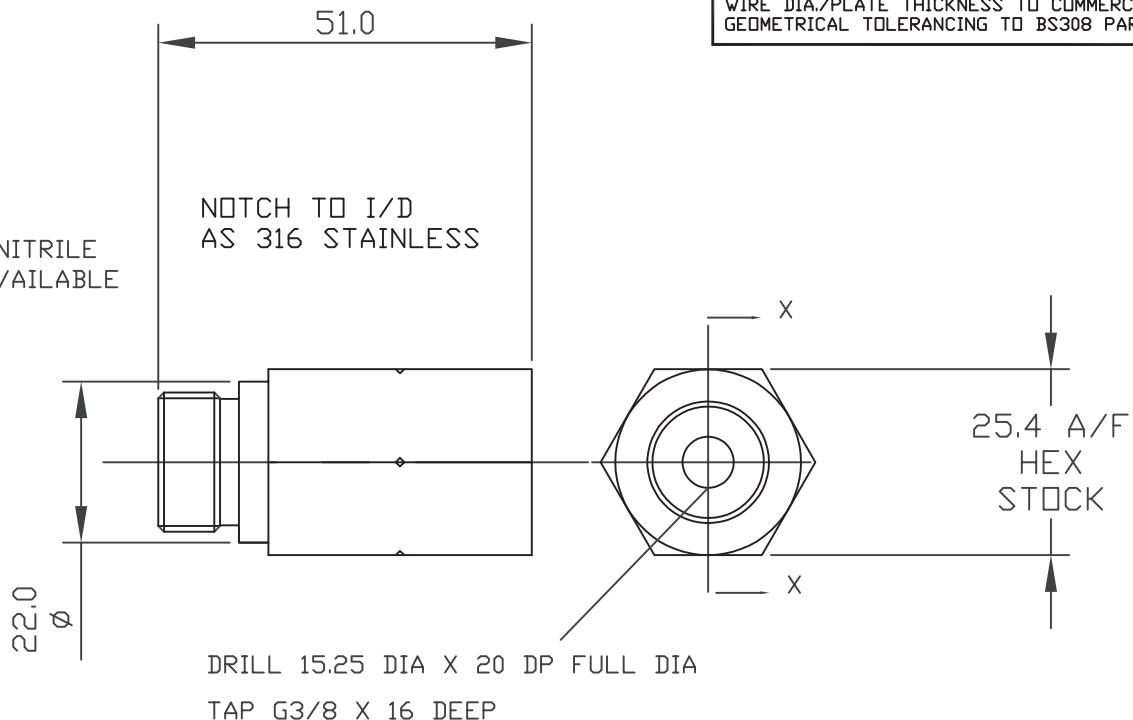
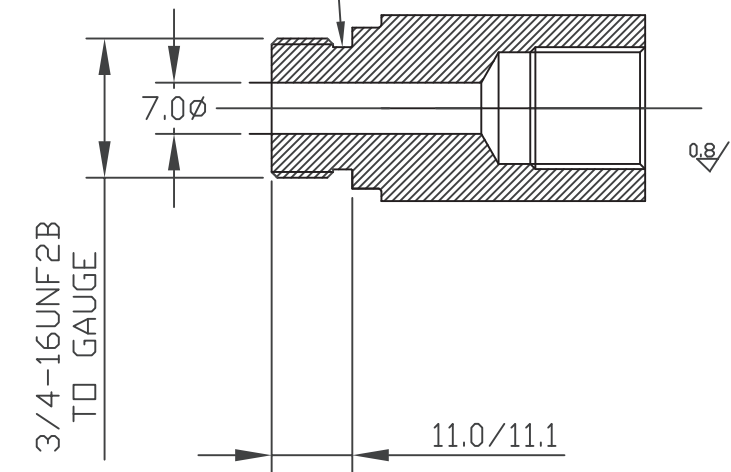


TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

SECTION XX

SUPPLIED WITH BS908 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

51.0  
 NOTCH TO I/D  
 AS 316 STAINLESS



	PART DESCRIPTION
489001700	FINISHED STOCK PART
489001709	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	489001709
DRAWING NO.	
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TITLE  
**INLET ADAPTOR G3/8 316 CATALOGUE CODIFICATION**

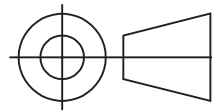
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

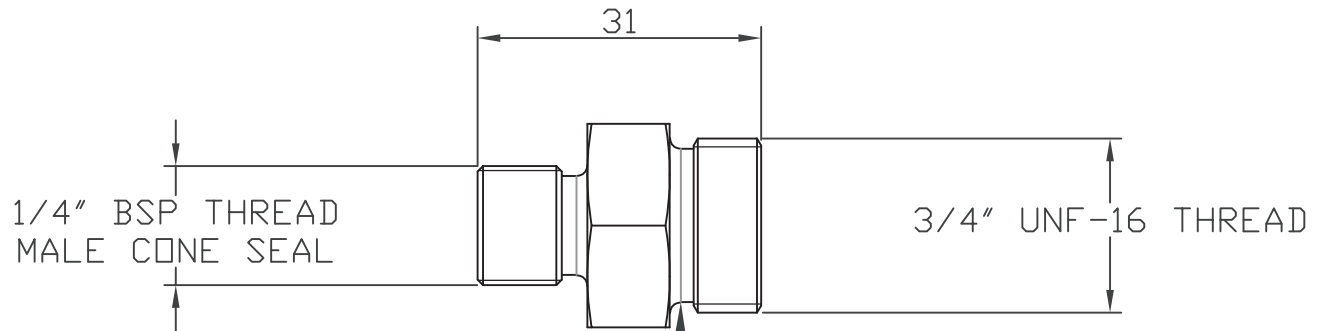
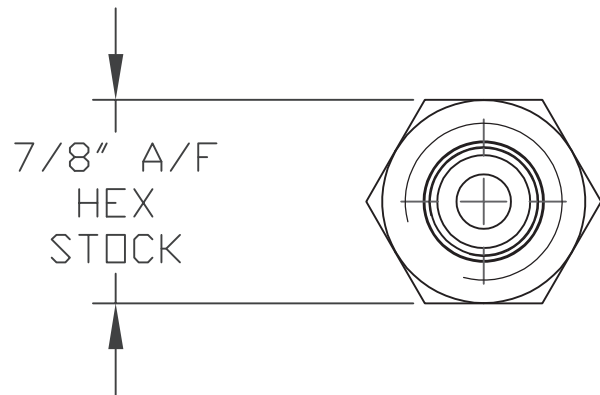
ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21



IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



SUPPLIED WITH BS908 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

	PART DESCRIPTION
489001900	FINISHED STOCK PART
489001909	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

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 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	489001909
DRAWING NO.	
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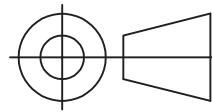
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MATERIAL STAINLESS STEEL 316 1.4404

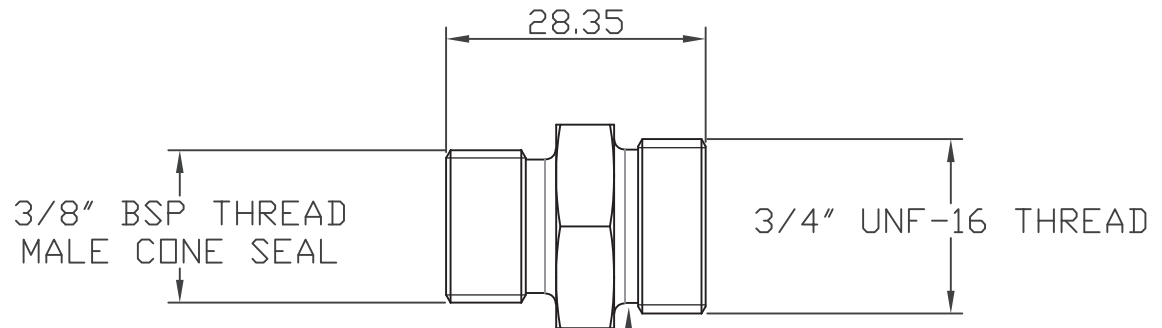
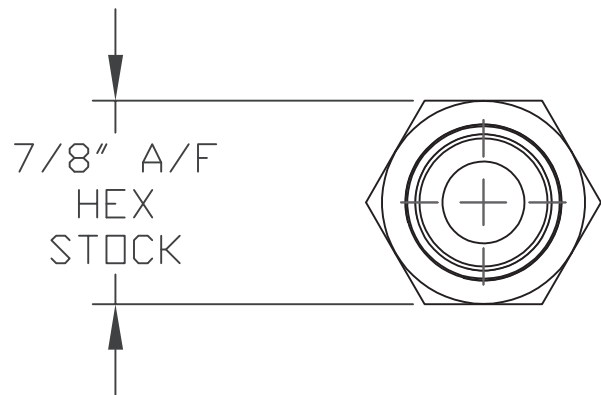
FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21

IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



SUPPLIED WITH BS908 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

	PART DESCRIPTION
489002000	FINISHED STOCK PART
489002009	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	489002009
DRAWING NO.	
489002009	

TITLE  
 INLET ADAPTOR G3/8 MALE CONED 316 CATALOGUE CODIFICATION

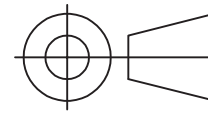
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21

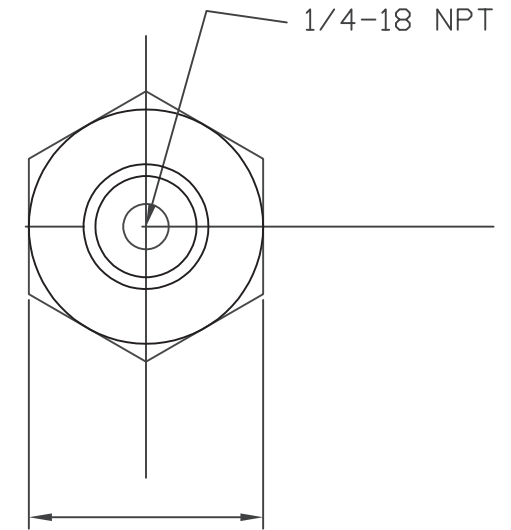
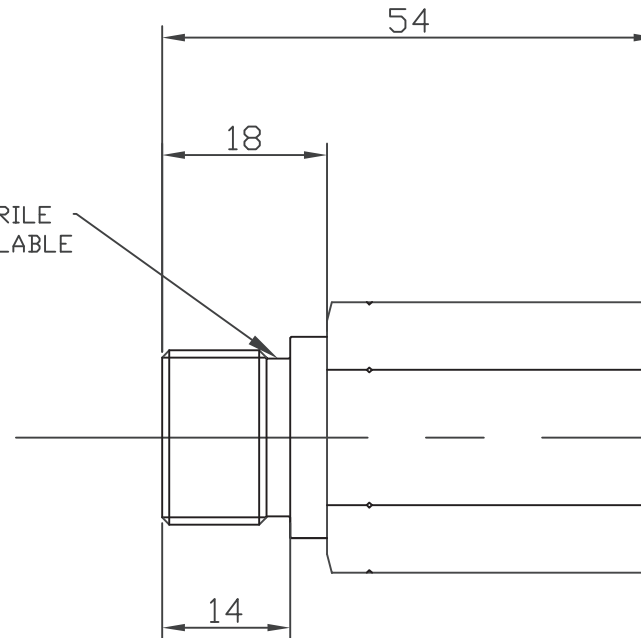
IF IN DOUBT, ASK

THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES NO DEC. PLACE  $\pm 1.0\text{mm}$  RIGHT ANGLE BENDS & OTHER ANGLES  $\pm 1^\circ$   
 ONE DEC. PLACE  $\pm 0.3\text{mm}$  MACHINED DIAMETERS  
 TWO DEC. PLACE  $\pm 0.1\text{mm}$  CONCENTRIC WITHIN  $\pm 0.1\text{mm}$  T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3

SUPPLIED WITH BS906 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE



25.4 A/F BAR  
 STOCK

	PART DESCRIPTION
007024200	FINISHED STOCK PART
007024209	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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 www.sarum-hydraulics.co.uk

DRAWN JGF APP

CHKD

SCALE F SIZE SHEET OF

CAD 2-D 007024209

DRAWING NO.

007024209

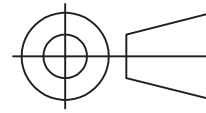
TITLE  
 INLET ADAPTOR 3/4UNF TO 1/4NPT 316 CODIFICATION

MATERIAL STAINLESS STEEL 316 1.4404

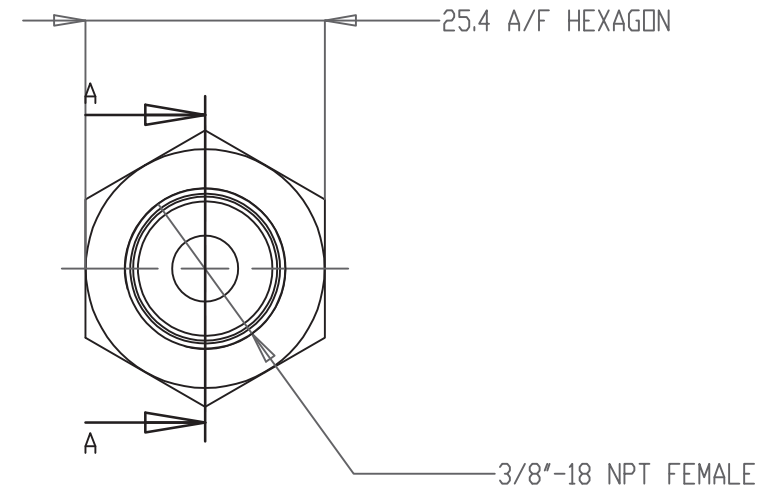
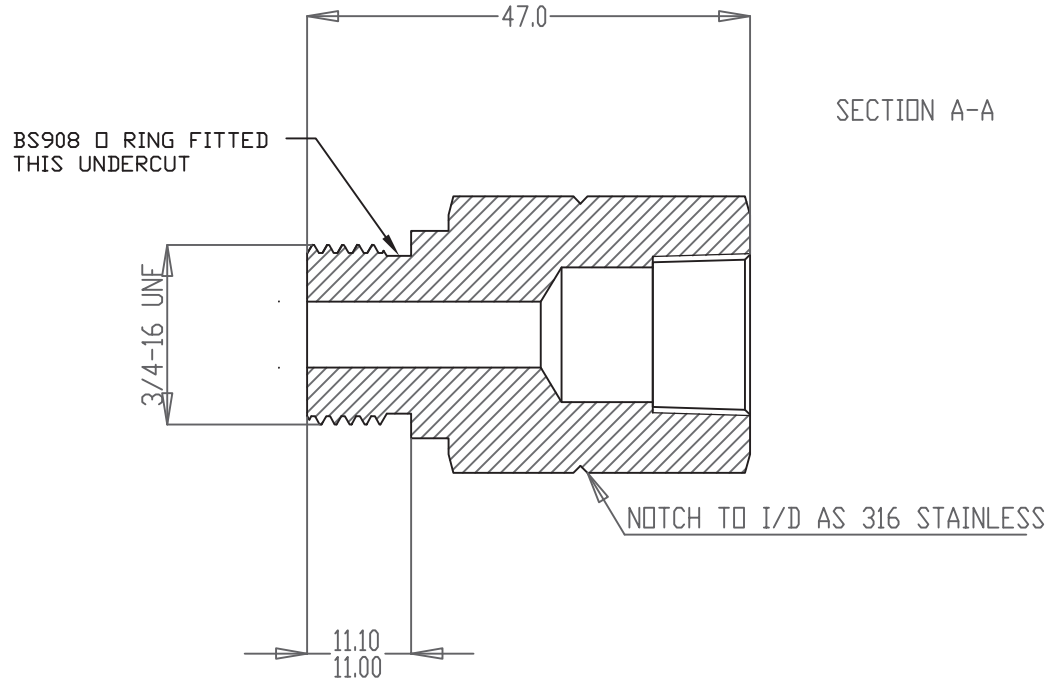
FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	08/15

# IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



- NOTES
1. MATERIAL-STAINLESS STEEL 1.4404/316L
  2. FINISH- CLEAN, PROTECT FROM DAMAGE

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

	PART DESCRIPTION
489001600	FINISHED STOCK PART
489001609	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

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TITLE  
 ADAPTOR, INLET 3/8NPT FEMALE 316 CATALOGUE CODIFICATION

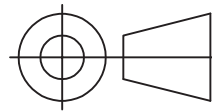
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

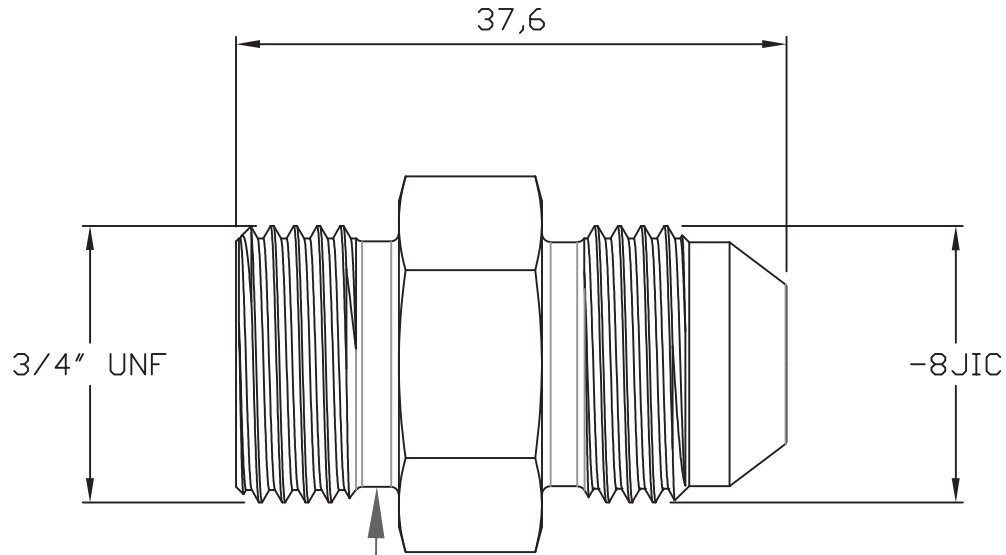
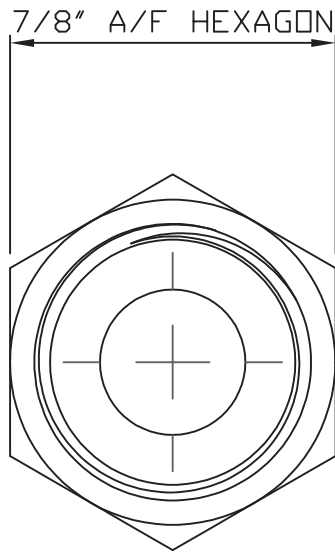
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	CHKD
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CAD 2-D	489001609
DRAWING NO.	
489001609	

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21

IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



SUPPLIED WITH BS908 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

	PART DESCRIPTION
489002400	FINISHED STOCK PART
489002409	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

UNLESS OTHERWISE STATED:  
 DIMENSIONS IN MILLIMETRES  
 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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TITLE  
**INLET ADAPTOR -8JIC 316 CATALOGUE CODIFICATION**

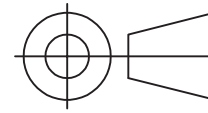
MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

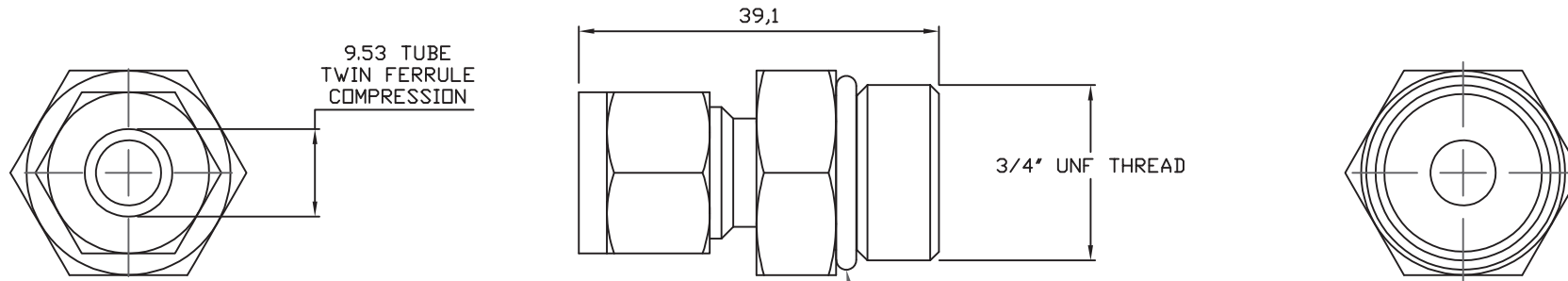
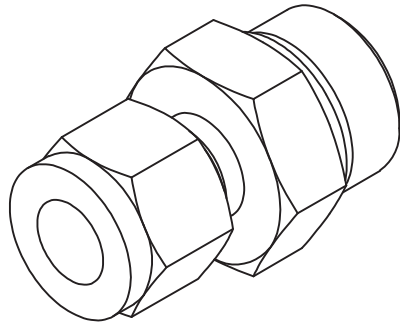
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SCALE F SIZE	SHEET OF
CAD 2-D	489002409
DRAWING NO.	
<b>489002409</b>	

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21

# IF IN DOUBT, ASK THIRD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE STATED  
 GENERAL TOLERANCES RIGHT ANGLE BENDS &  
 NO DEC. PLACE +/-1.0mm OTHER ANGLES +/-1°  
 ONE DEC. PLACE +/-0.3mm MACHINED DIAMETERS  
 TWO DEC. PLACE +/-0.1mm CONCENTRIC WITHIN  
 +/-0.1mm T.I.R.  
 SCREW THREADS ARE ISO METRIC COARSE PITCH  
 TOL. 6g/6H (MED. FIT) TO BS3643  
 WIRE DIA./PLATE THICKNESS TO COMMERCIAL LIMITS  
 GEOMETRICAL TOLERANCING TO BS308 PART 3



SUPPLIED WITH BS908 SAE SEAL IN NITRILE  
 FLUOROCARBON, EPDM & FSILICONE AVAILABLE

	PART DESCRIPTION
908169300	FINISHED STOCK PART
908169309	DRAWING FOR CODIFICATION
	ORDER ON THE "00" P/N

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 SURFACE FINISH IN MICROMETRES  
 REMOVE SHARP EDGES

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DRAWN NO	APP
	CHKD
SCALE F SIZE	SHEET OF
CAD 2-D	908169309
DRAWING NO.	
908169309	

TITLE  
**INLET ADAPTOR Ø9.52 TUBE 316 CATALOGUE CODIFICATION**

MATERIAL STAINLESS STEEL 316 1.4404

FINISH CLEAN, DEBURR

ISSUE	D.C.N.	CHANGE DESCRIPTION & DATE	DATE IMPLEMENTED
1		FIRST ISSUE	04/21