

0

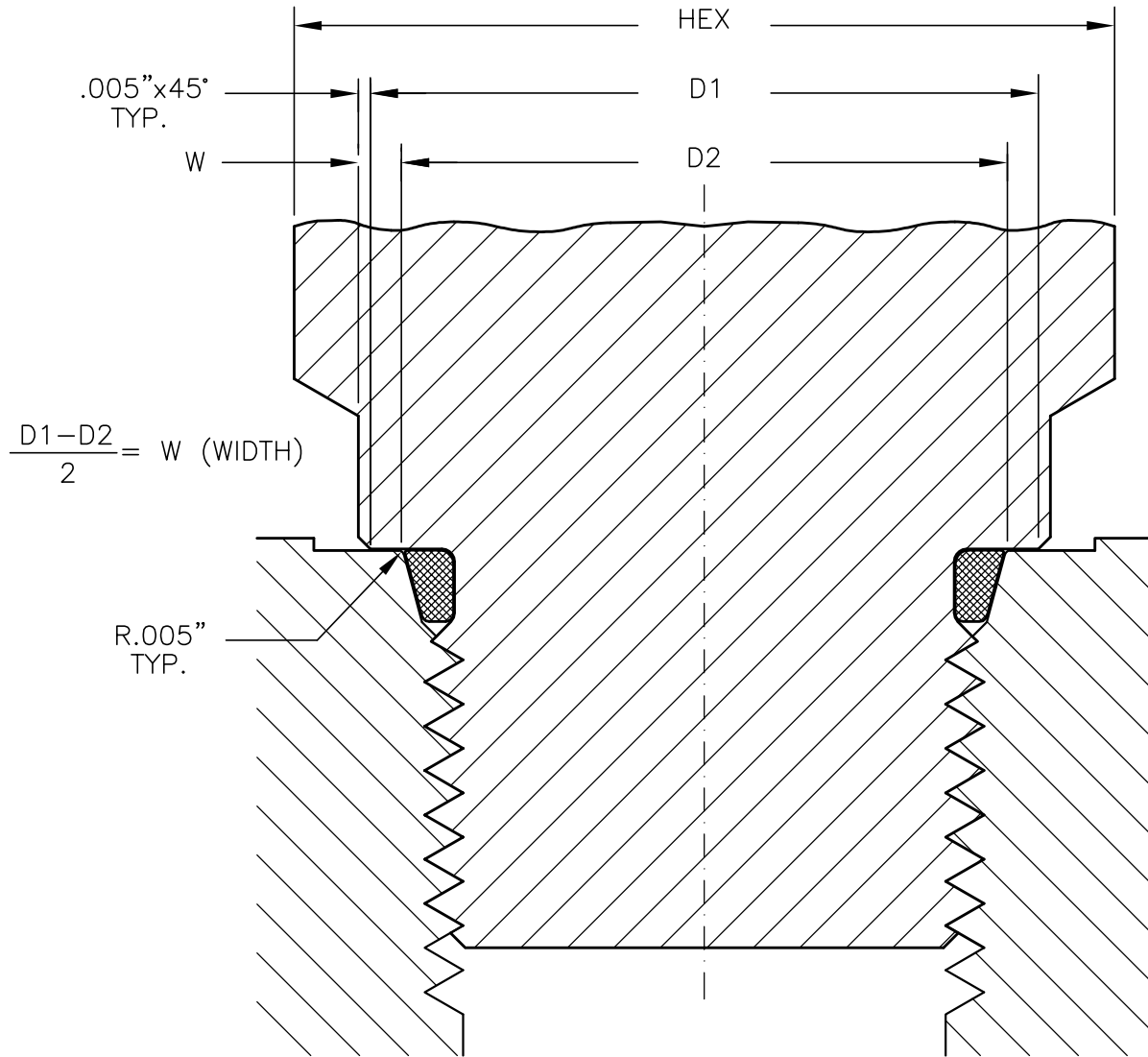
Cavities, Valve Housings & Misc.

DESCRIPTION	CAVITY	PAGE NO.
CARTRIDGE & CAVITY ENGAGEMENT CCC UNIBODY CONSTRUCTION		0-001.0 0-001.1
C0420 CAVITY	C0420	0-010.0
C0820 CAVITY C0820 HOUSINGS	C0820	0-011.0 0-011.1
C1020 CAVITY C1020 HOUSINGS	C1020	0-012.0 0-012.1
C1220 CAVITY C1220 HOUSINGS	C1220	0-013.0 0-013.1
C1620 CAVITY C1620 HOUSINGS	C1620	0-014.0 0-014.1
C0825 CAVITY C0825 HOUSINGS	C0825	0-021.0 0-021.1
C1025 CAVITY C1025 HOUSINGS	C1025	0-022.0 0-022.1
C1225 CAVITY C1225 HOUSINGS	C1225	0-023.0 0-023.1
C1625 CAVITY	C1625	0-024.0

Cavities, Valve Housings & Misc.

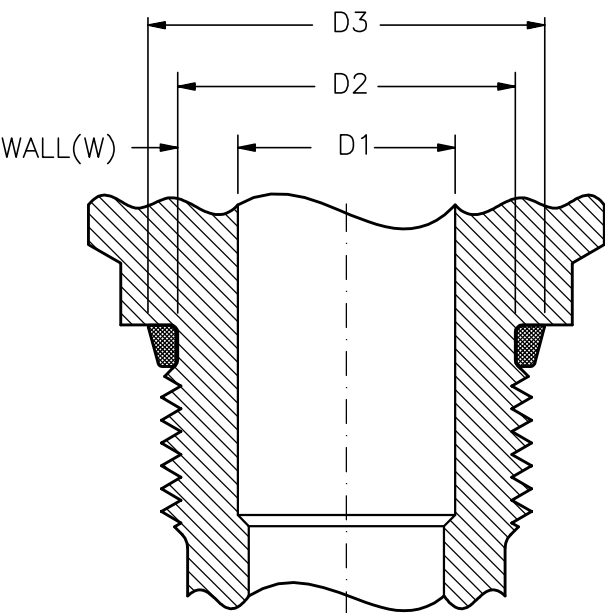
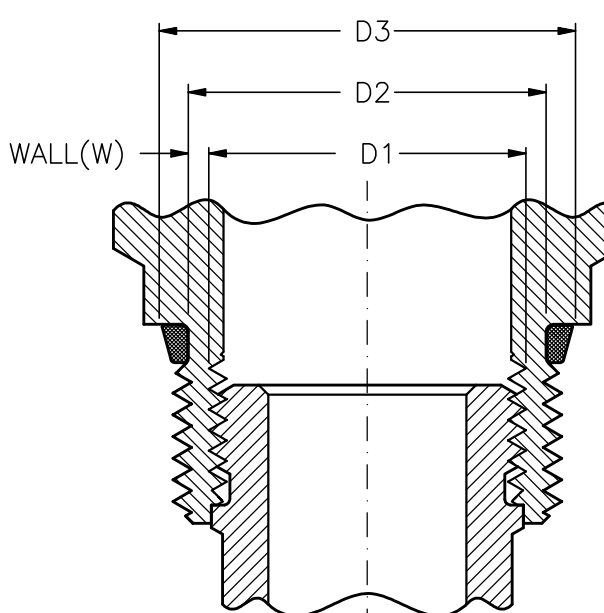
DESCRIPTION	CAVITY	PAGE NO.
C0825 DUAL VALVE HOUSINGS	C0825	0-026.0
C1025	C1025	0-027.0
C1225	C1225	0-028.0
C1020	C1020	0-029.0
C0430 CAVITY	C0430	0-030.0
C0830 CAVITY	C0830	0-031.0
C0830 HOUSINGS		0-031.1
C1030 CAVITY	C1030	0-032.0
C1030 HOUSINGS		0-032.1
C1230 CAVITY	C1230	0-033.0
C1230 HOUSINGS		0-033.1
C1630 CAVITY	C1630	0-034.0
C1630 HOUSINGS		0-034.1
C0840 CAVITY	C0840	0-041.0
C0840 HOUSINGS		0-041.1
C0840 HOUSINGS, FLOW DIVIDER/COMBINER		0-041.2
C1040 CAVITY	C1040	0-042.0
C1040 HOUSINGS		0-042.1
C1040 HOUSINGS, FLOW DIVIDER/COMBINER		0-042.2
C1240 CAVITY	C1240	0-043.0
C1240 HOUSINGS		0-043.1
C1240 HOUSINGS, FLOW DIVIDER/COMBINER		0-043.2
C1640 CAVITY	C1640	0-044.0
C1640 HOUSINGS		0-044.1
ADJUSTMENT CONTROL OPTIONS S, C, T	8,10,12,16	0-050.0
ADJUSTMENT CONTROL OPTIONS K, M, H, G	8,10,12	0-050.1
PANEL MOUNT KIT	10	0-060.0
PANEL MOUNT KIT WRENCH	10	0-060.1
CAVITY PLUGS	4, 8, 10, 12, 16	0-100.0
DEEP SOCKET WRENCH	10, 12, 16	0-200.0

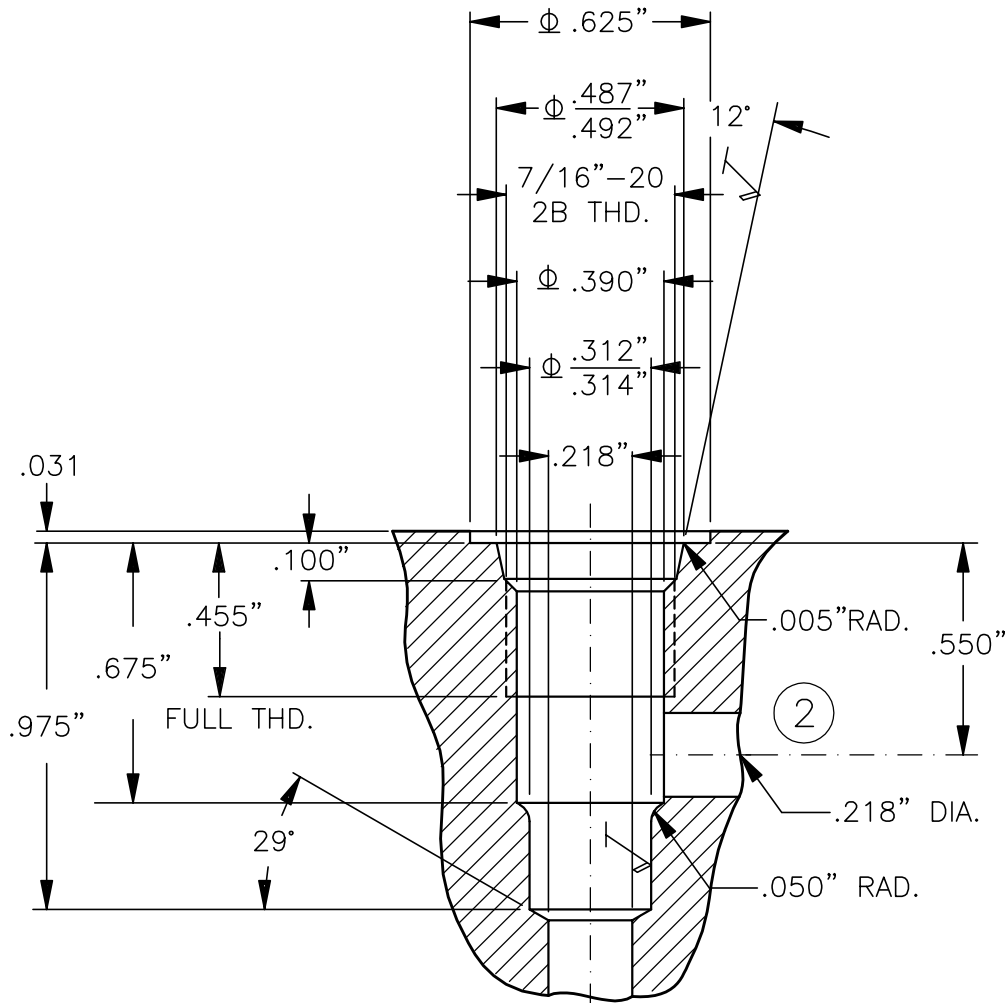
CARTRIDGE & CAVITY ENGAGEMENT



SERIES	MFG	HEX		D1		D2		W		AREA
		INCH	MM	DIA	AREA	DIA	AREA	WIDTH	AREA	%
8	OTHERS	.870	22,1	.870"	.594"	.813"	.519"	.029"	.075"	100
	CCC	1.000	25,4	.995"	.778"	.813"	.519"	.091"	.259"	345
10	OTHERS	1.000	25,4	.990"	.770"	.954"	.715"	.018"	.055"	100
	CCC	1.062	27,0	1.052"	.870"	.954"	.715"	.049"	.155"	282
12	OTHERS	1.250	31,8	1.240"	1.208"	1.158"	1.053"	.041"	.155"	100
	CCC	1.312	33,3	1.302"	1.331"	1.158"	1.053"	.072"	.278"	180



<p>CCC UNIBODY CONSTRUCTION (10 SERIES SHOWN)</p>	<p>TYPICAL TWO PIECE CONSTRUCTION</p>
	
$\frac{D2 - D1}{2} = \frac{.770" - .590"}{2} = .090" \text{ WALL(W)}$	$\frac{D2 - D1}{2} = \frac{.770" - .688"}{2} = .041" \text{ WALL(W)}$
$\text{AREA}(D2) - \text{AREA}(D1) = \text{AREA}(W)$ $.466"{}^2 - .274"{}^2 = .192"{}^2$	$\text{AREA}(D2) - \text{AREA}(D1) = \text{AREA}(W)$ $.466"{}^2 - .372"{}^2 = .094"{}^2$
$\text{AREA}(W) \times \text{TENSILE} = \text{STRENGTH}$ $.192"{}^2 \times 70,000 \text{ PSI} = 13,440 \text{ LB}$	$\text{AREA}(W) \times \text{TENSILE} = \text{STRENGTH}$ $.094"{}^2 \times 70,000 \text{ PSI} = 6,580 \text{ LB}$
$D3 = .942" \text{ DIA} = .697"{}^2 \text{ AREA}(D3)$	$D3 = .942" \text{ DIA} = .697"{}^2 \text{ AREA}(D3)$
$\text{AREA}(D3) \times \text{PRESSURE} = \text{LOAD}$ $.697"{}^2 \times 5,000 \text{ PSI} = 3,485 \text{ LB}$	$\text{AREA}(D3) \times \text{PRESSURE} = \text{LOAD}$ $.697"{}^2 \times 5,000 \text{ PSI} = 3,485 \text{ LB}$
$\text{STRENGTH} \div \text{LOAD} = \text{SAFETY FACTOR}$ $13,440 \text{ LB} \div 3,485 \text{ LB} = 3.86$	$\text{STRENGTH} \div \text{LOAD} = \text{SAFETY FACTOR}$ $6,580 \text{ LB} \div 3,485 \text{ LB} = 1.89$
<p>3.86 TO 1 SAFETY FACTOR @ 5,000 PSI</p>	<p>1.89 TO 1 SAFETY FACTOR @ 5,000 PSI</p>

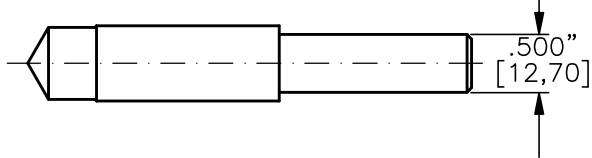


FINISH $\sqrt{\text{ }} = 1,15m \sqrt{\text{ }} \text{ OR } 45in \sqrt{\text{ }}$

(1)

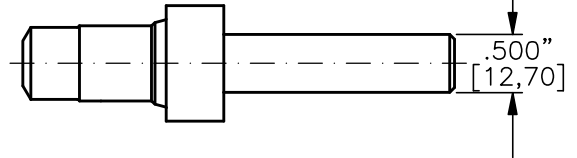
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001"[0,025].

Cavity Roughing Tool

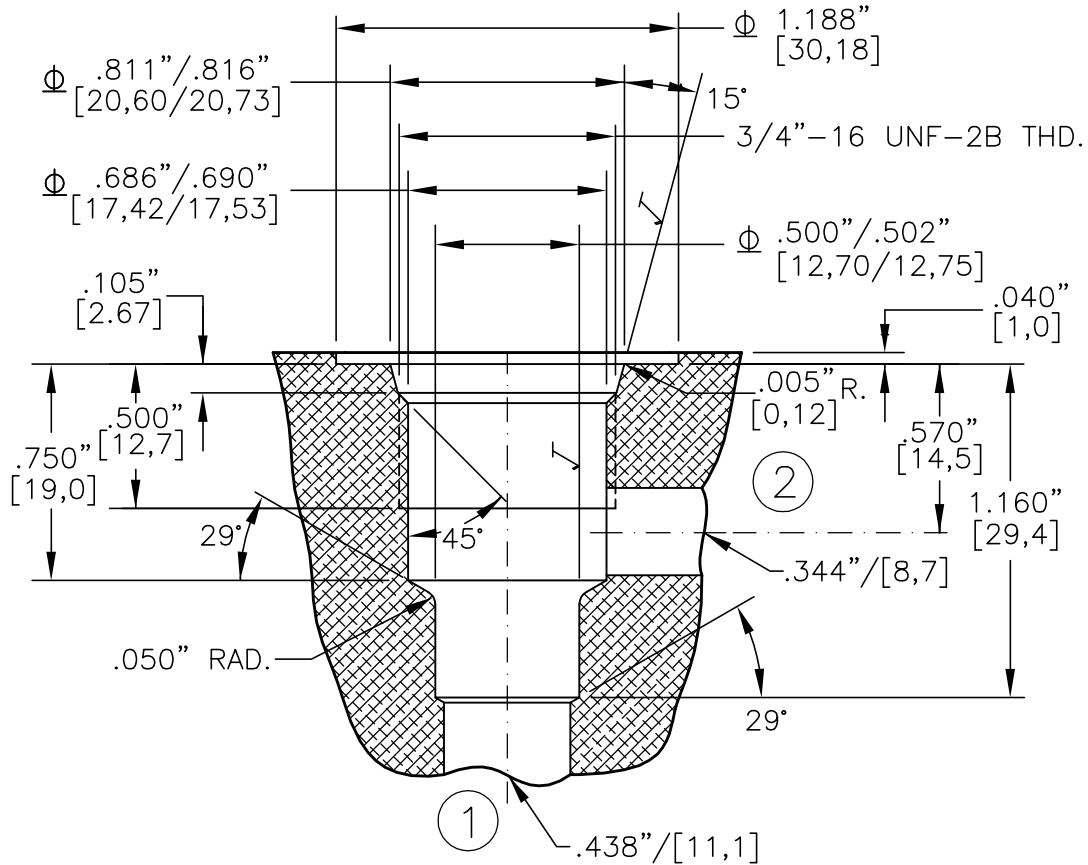


TOOL NO.: T0420-R-H
MATERIAL: High Speed Steel

Cavity Finishing Tool



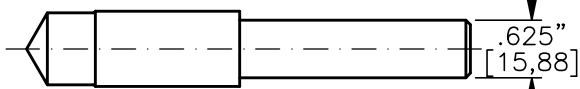
TOOL NO.: T0420-F-H
MATERIAL: High Speed Steel
TOOL NO.: T0420-F-C
MATERIAL: Tungsten Carbide Tipped



FINISH $\sqrt{\quad} = 1,15m\sqrt{\quad}$ OR $45in\sqrt{\quad}$

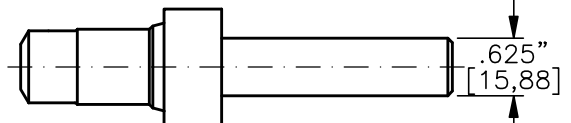
ϕ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool



TOOL NO.: T0820-R-H
MATERIAL: High Speed Steel

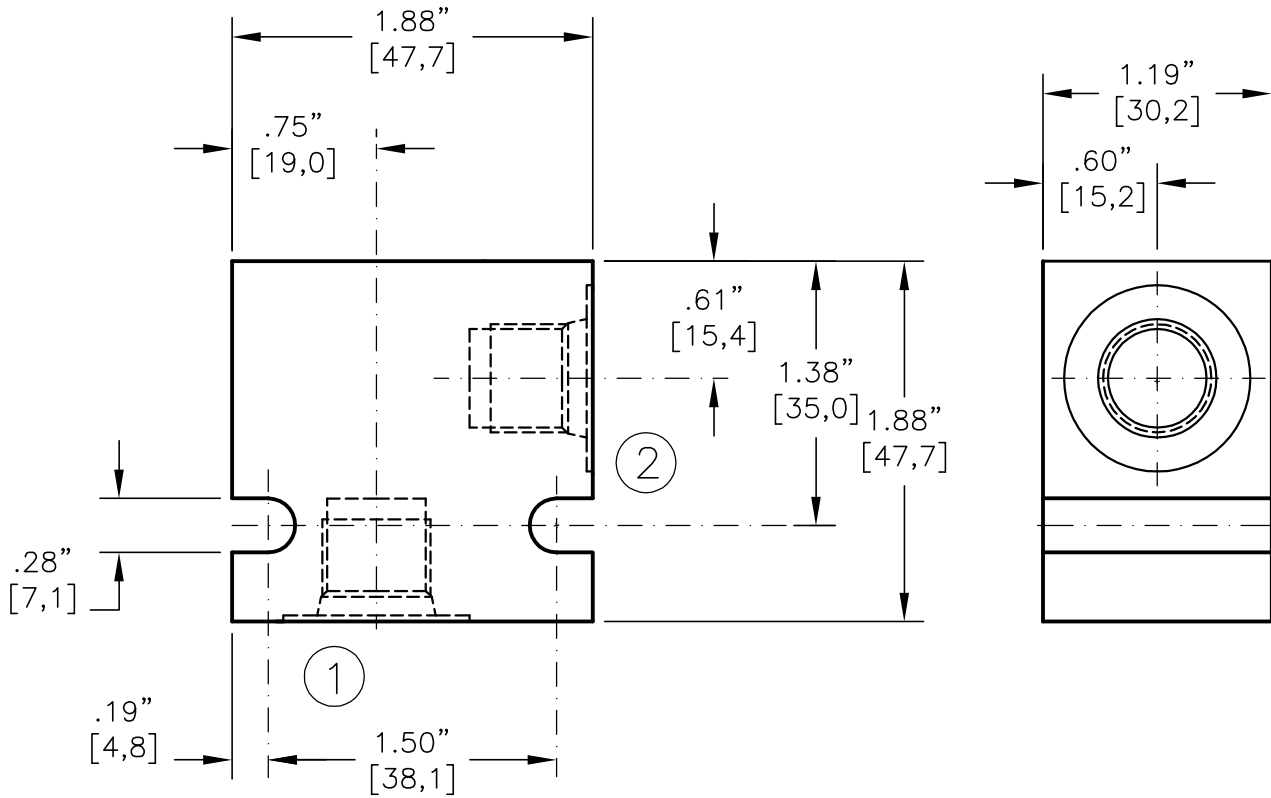
Cavity Finishing Tool



TOOL NO.: T0820-F-H
MATERIAL: High Speed Steel
TOOL NO.: T0820-F-C
MATERIAL: Tungsten Carbide Tipped

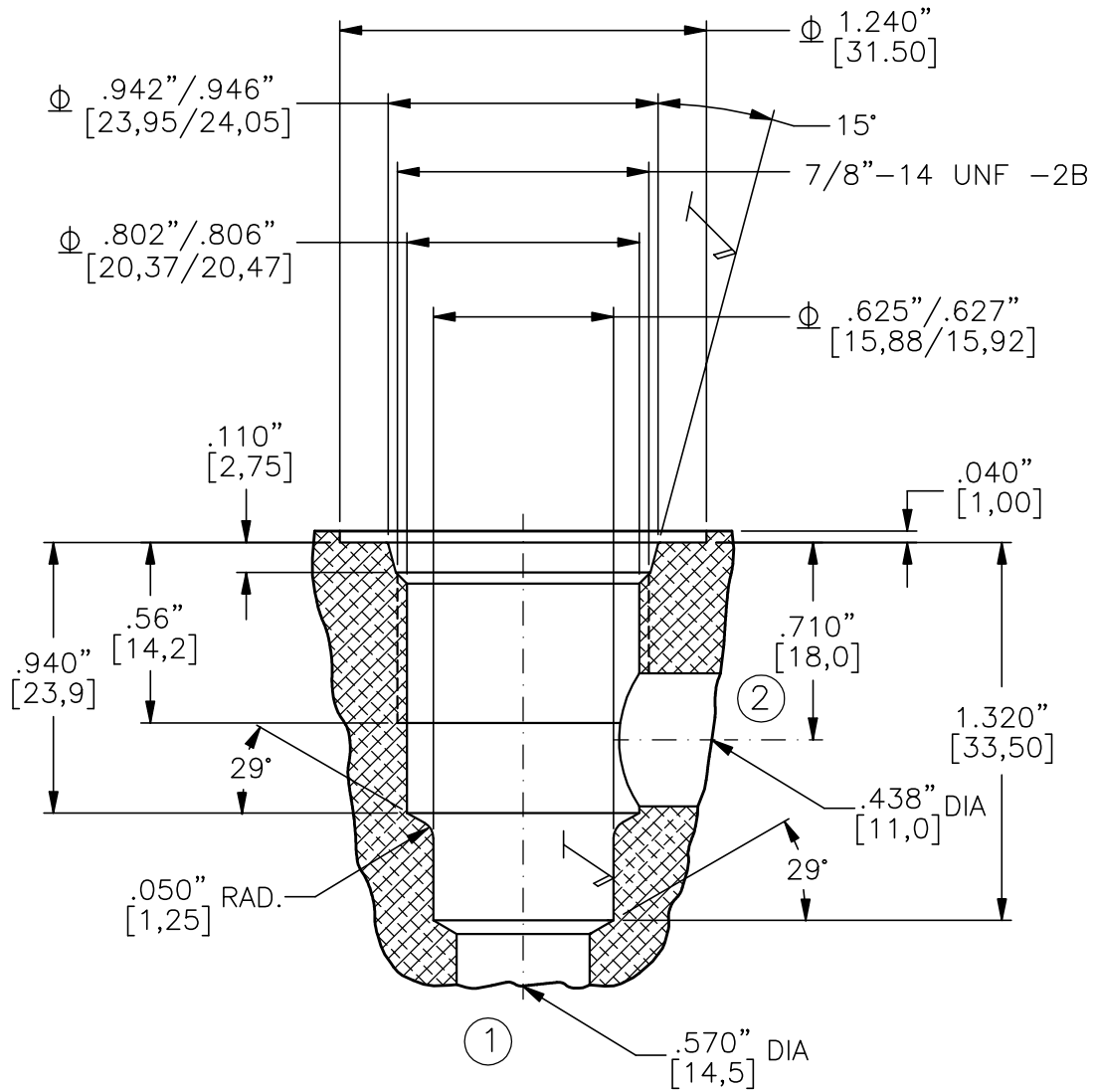


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

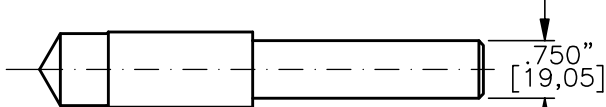
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2
02PA*	30400	02PS*	30412	1/4"-18 NPTF	1/4"-18 NPTF
02BA	30401	02BS	30413	G 1/4"-19 BSPP	G 1/4"-19 BSPP
06TA	30402	06TS	30414	SAE - 6	SAE - 6



FINISH $\sqrt{\quad} = 1,15m\sqrt{\quad}$ OR $45in\sqrt{\quad}$

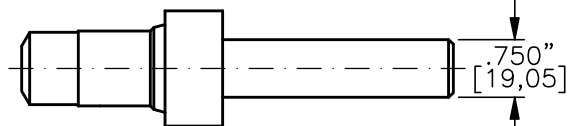
ϕ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001"[0,025].

Cavity Roughing Tool



TOOL NO.: T1020-R-H
MATERIAL: High Speed Steel

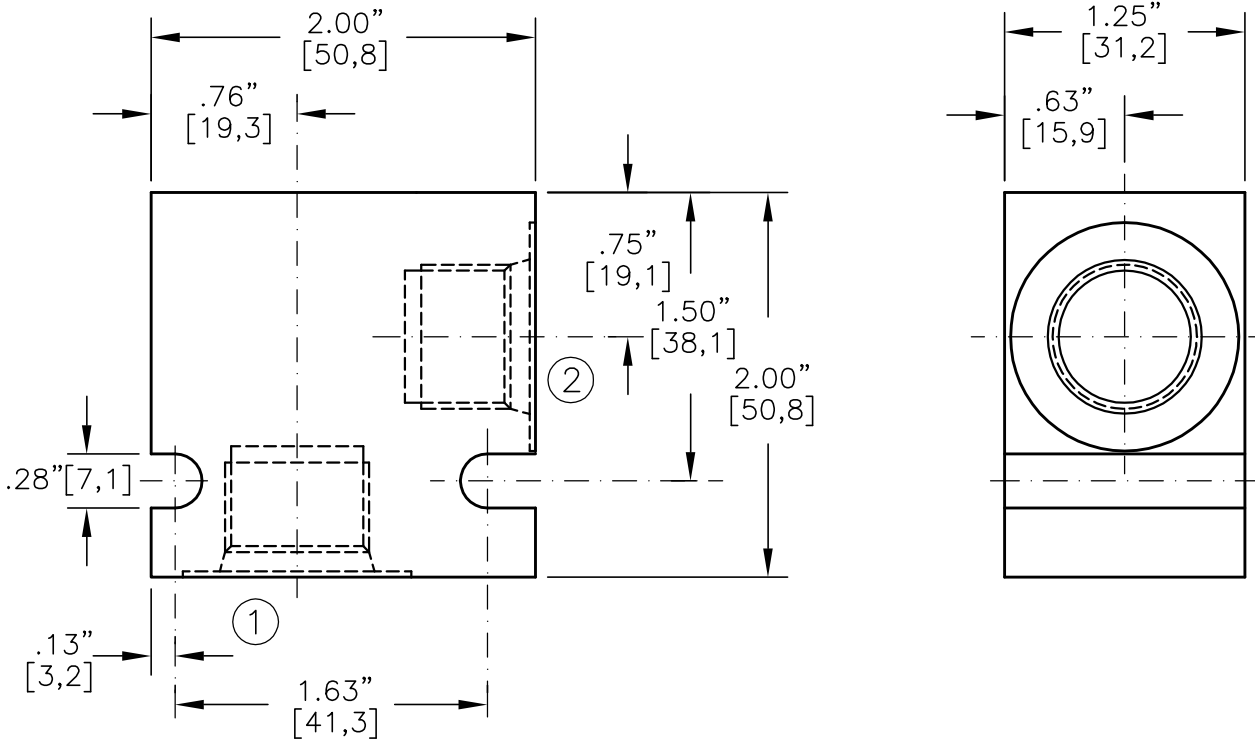
Cavity Finishing Tool



TOOL NO.: T1020-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1020-F-C
MATERIAL: Tungsten Carbide Tipped

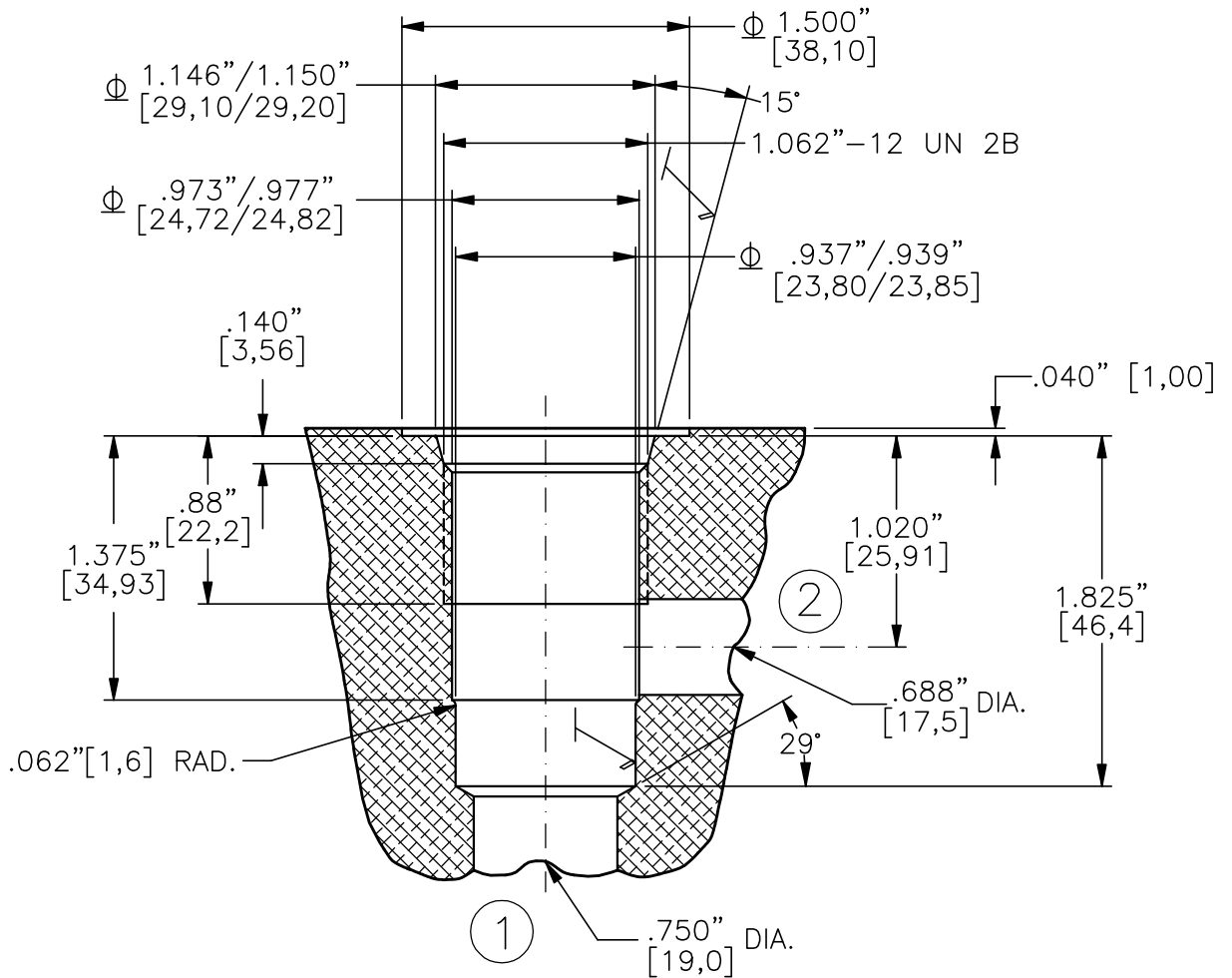


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

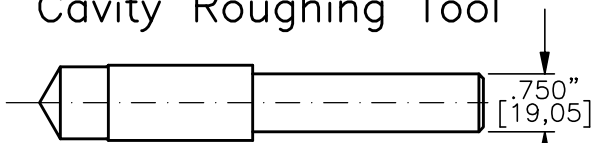
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2
02PA*	30120	02PS*	30126	1/4"-18 NPTF	1/4"-18 NPTF
03PA*	30121	03PS*	30127	3/8"-18 NPTF	3/8"-18 NPTF
02BA	30122	02BS	30128	G 1/4"-19 BSPP	G 1/4"-19 BSPP
03BA	30123	03BS	30129	G 3/8"-19 BSPP	G 3/8"-19 BSPP
06TA	30124	06TS	30130	SAE - 6	SAE - 6
08TA	30125	08TS	30130	SAE - 8	SAE - 8



FINISH $\sqrt{\text{I}} = 1,15\text{m}$ $\sqrt{\text{I}}$ OR 45in $\sqrt{\text{I}}$

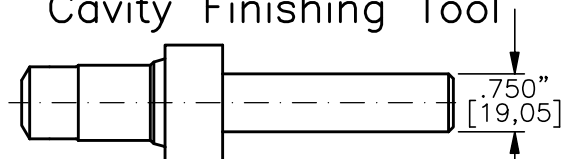
⌀ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool



TOOL NO.: T1220-R-H
MATERIAL: High Speed Steel

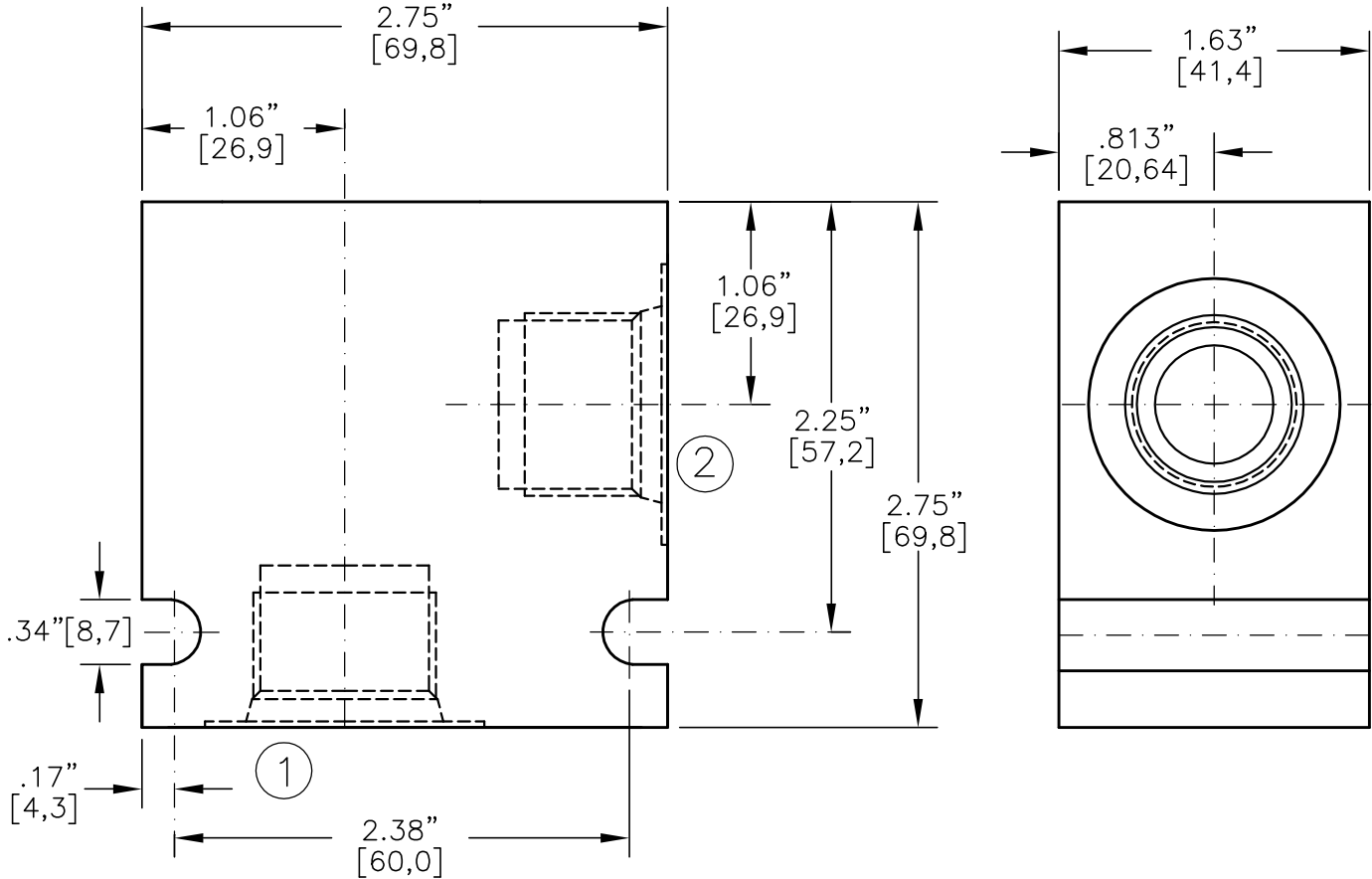
Cavity Finishing Tool



TOOL NO.: T1220-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1220-F-C
MATERIAL: Tungsten Carbide Tipped



VALVE HOUSING, ALUMINUM OR STEEL.

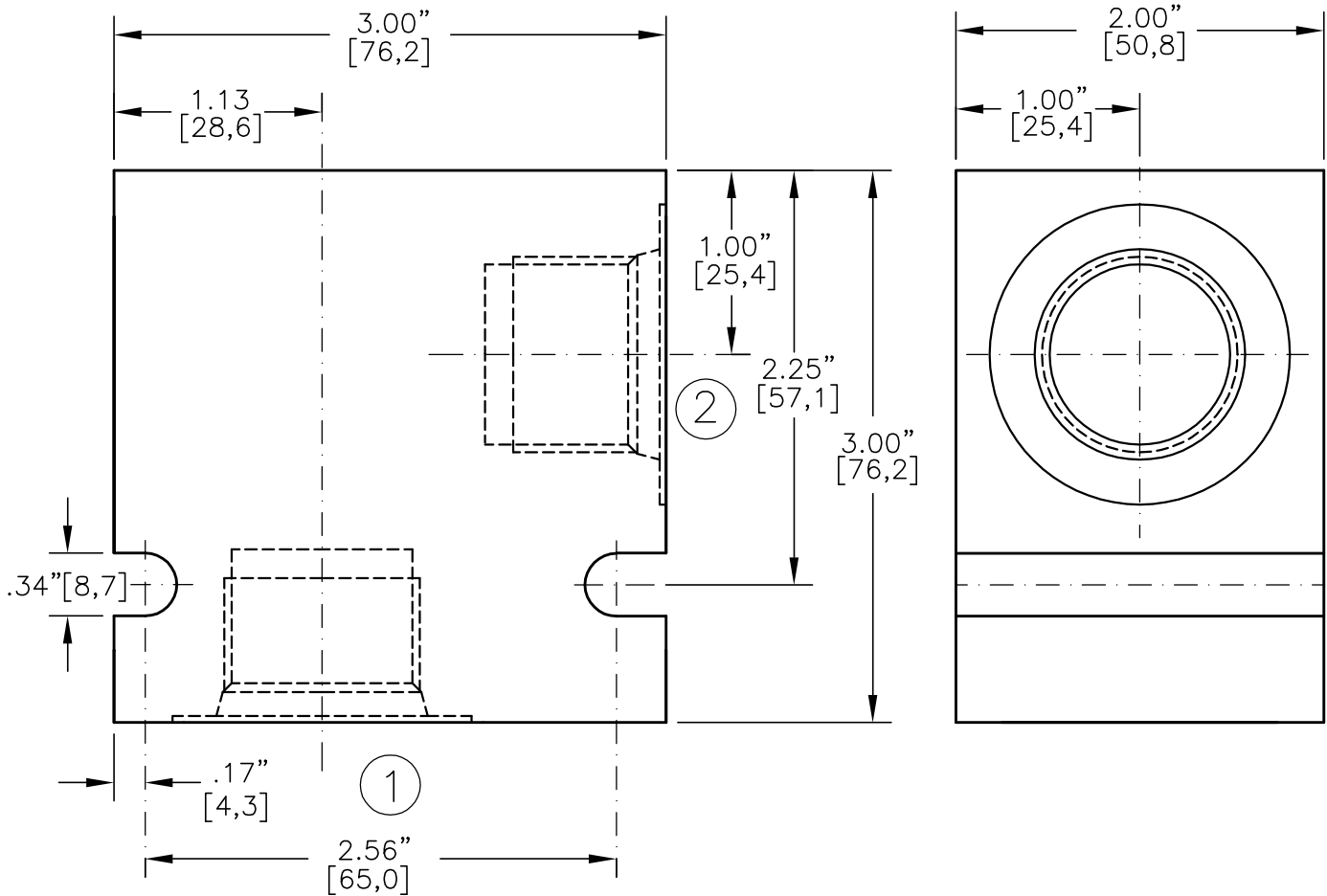


* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2
04PA*	30092	04PS*	30098	1/2"-14 NPTF	1/2"-14 NPTF
06PA*	30093	06PS*	30099	3/4"-14 NPTF	3/4"-14 NPTF
04BA	30094	04BS	30100	G 1/2"-14 BSPP	G 1/2"-14 BSPP
06BA	30095	06BS	30101	G 3/4"-14 BSPP	G 3/4"-14 BSPP
10TA	30096	10TS	30102	SAE - 10	SAE - 10
12TA	30097	12TS	30103	SAE - 12	SAE - 12

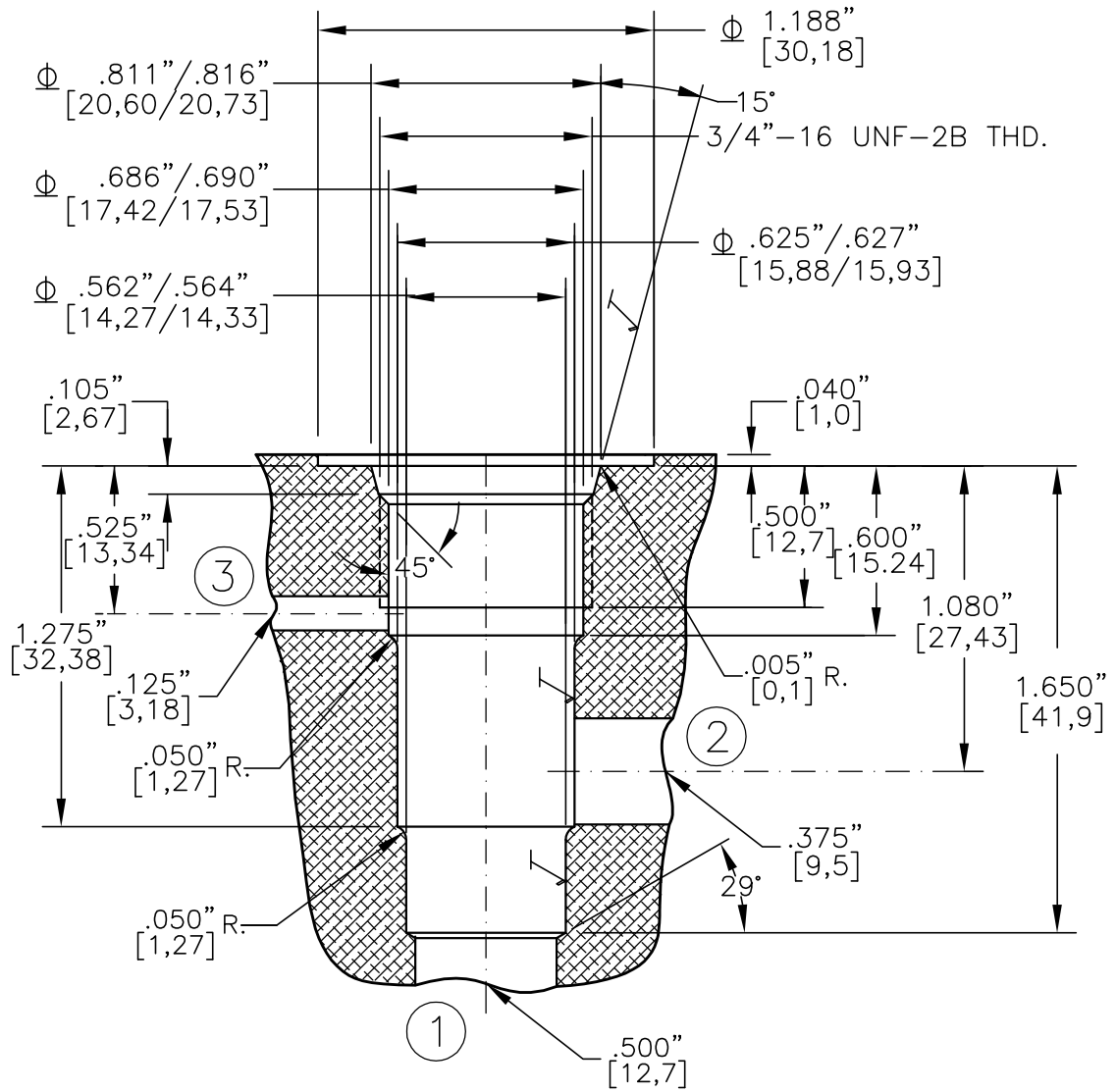


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

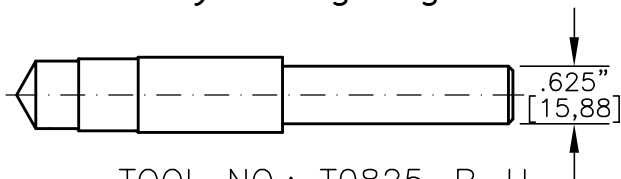
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2
06PA*	30192	06PS*	30198	3/4"-14 NPTF	3/4"-14 NPTF
08PA*	30193	08PS*	30199	1"-11.5 NPTF	1"-11.5 NPTF
06BA	30194	04BS	30200	G 3/4"-14 BSPP	G 3/4"-14 BSPP
08BA	30195	08BS	30201	G 1"-11 BSPP	G 1"-11 BSPP
12TA	30196	12TS	30202	SAE - 12	SAE - 12
16TA	30197	16TS	30203	SAE - 16	SAE - 16



FINISH $\sqrt{\quad} = 1,15m \sqrt{\quad}$ OR $45in \sqrt{\quad}$

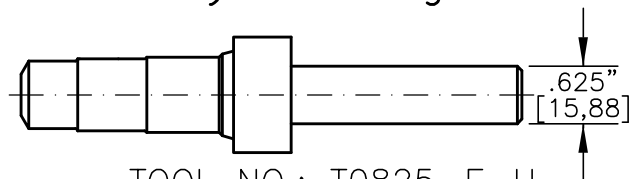
⊕ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool



TOOL NO.: T0825-R-H
MATERIAL: High Speed Steel

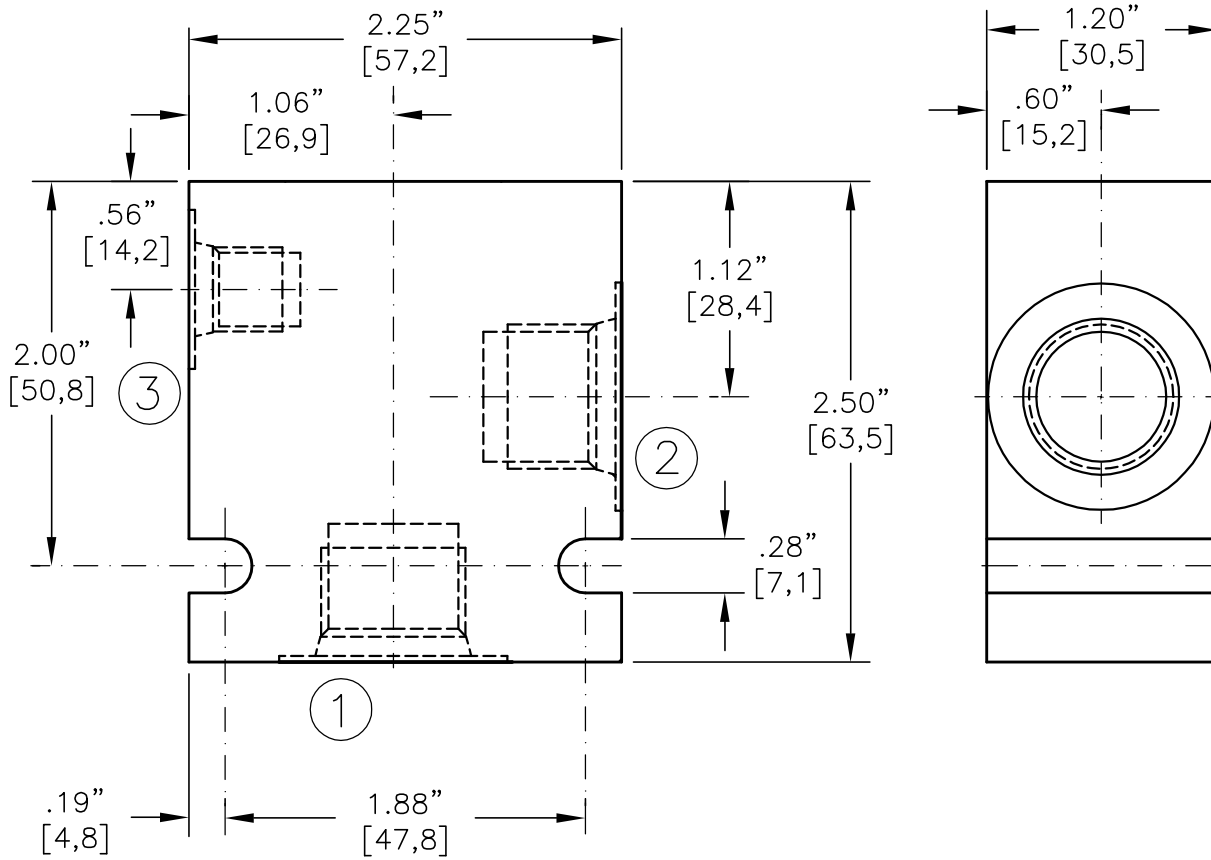
Cavity Finishing Tool



TOOL NO.: T0825-F-H
MATERIAL: High Speed Steel
TOOL NO.: T0825-F-C
MATERIAL: Tungsten Carbide Tipped

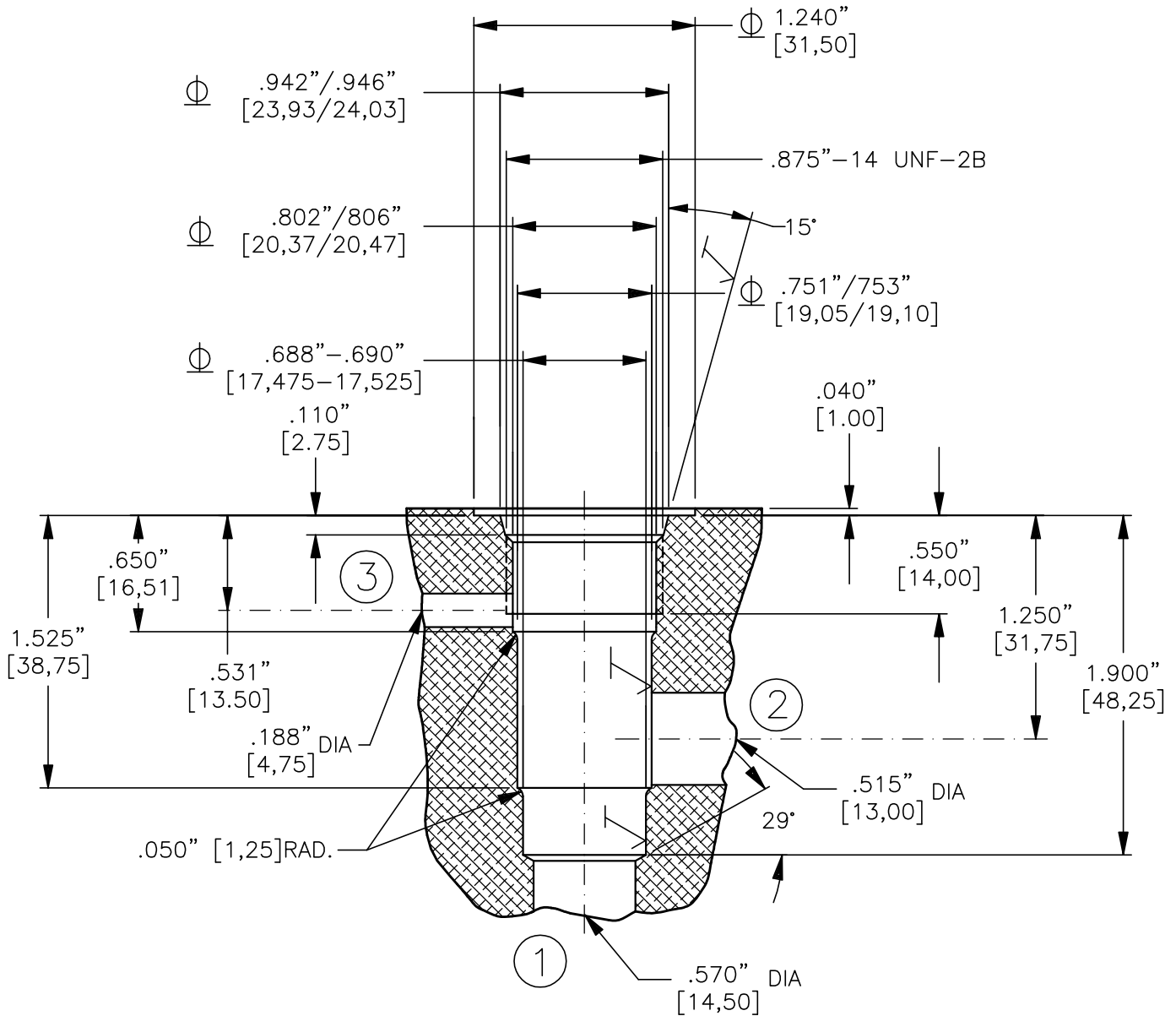


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

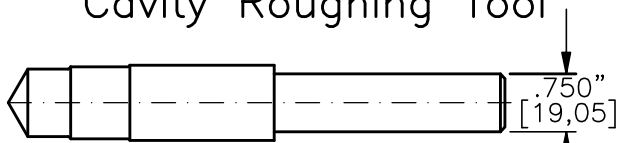
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 2
03PA*	30403	03PS*	30415	3/8"-18 NPTF	3/8"-18 NPTF	1/8"-27 NPTF
03BA	30404	03BS	30416	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 1/8"-28 BSPP
08TA	30405	06TS	30417	SAE - 8	SAE - 8	SAE - 4



FINISH $\sqrt{\quad} = 1,15m \sqrt{\quad}$ OR $45in \sqrt{\quad}$

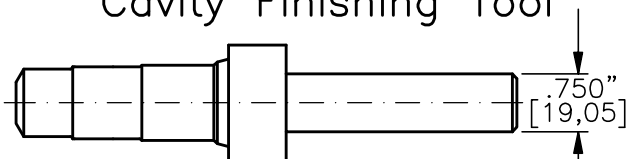
ϕ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001"[0,025].

Cavity Roughing Tool



TOOL NO.: T1025-R-H
 MATERIAL: High Speed Steel

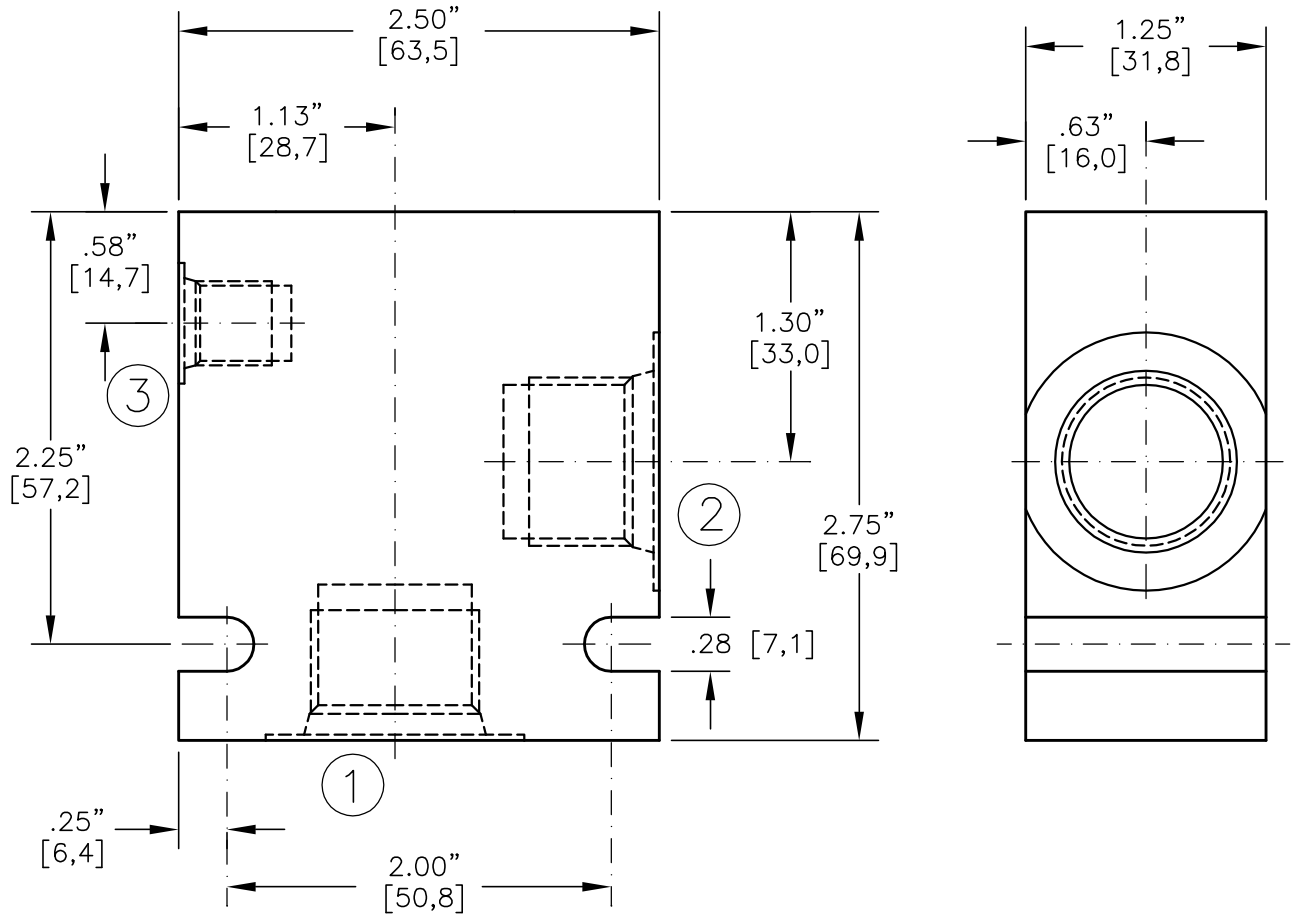
Cavity Finishing Tool



TOOL NO.: T1025-F-H
 MATERIAL: High Speed Steel
 TOOL NO.: T1025-F-C
 MATERIAL: Tungsten Carbide Tipped

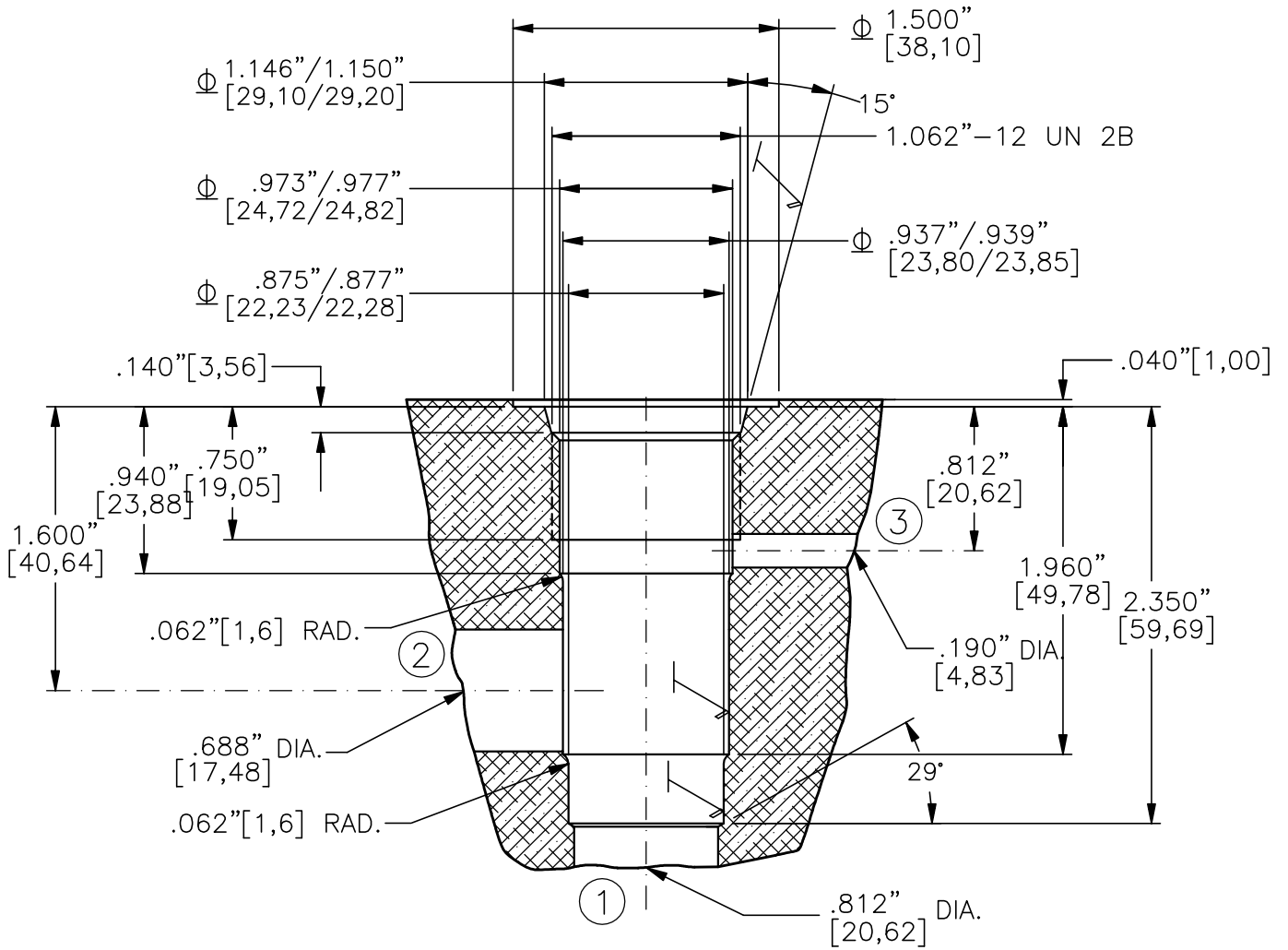


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

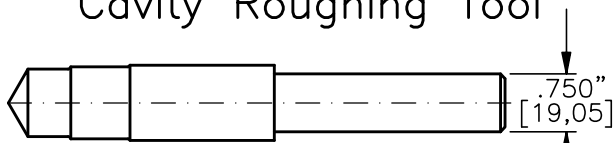
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3
03PA*	30132	03PS*	30138	3/8"-18 NPTF	3/8"-18 NPTF	3/8"-18 NPTF
04PA*	30133	04PS*	30139	1/2"-14 NPTF	1/2"-14 NPTF	1/2"-14 NPTF
03BA	30134	03BS	30140	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP
04BA	30135	04BS	30141	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP
08TA	30136	08TS	30142	SAE - 8	SAE - 8	SAE - 8
10TA	30137	10TS	30143	SAE - 10	SAE - 10	SAE - 10



FINISH $\sqrt{\quad} = 1,15m \sqrt{\quad}$ OR $45in \sqrt{\quad}$

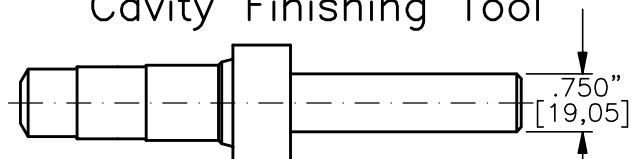
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Cavity Roughing Tool



TOOL NO.: T1225-R-H
MATERIAL: High Speed Steel

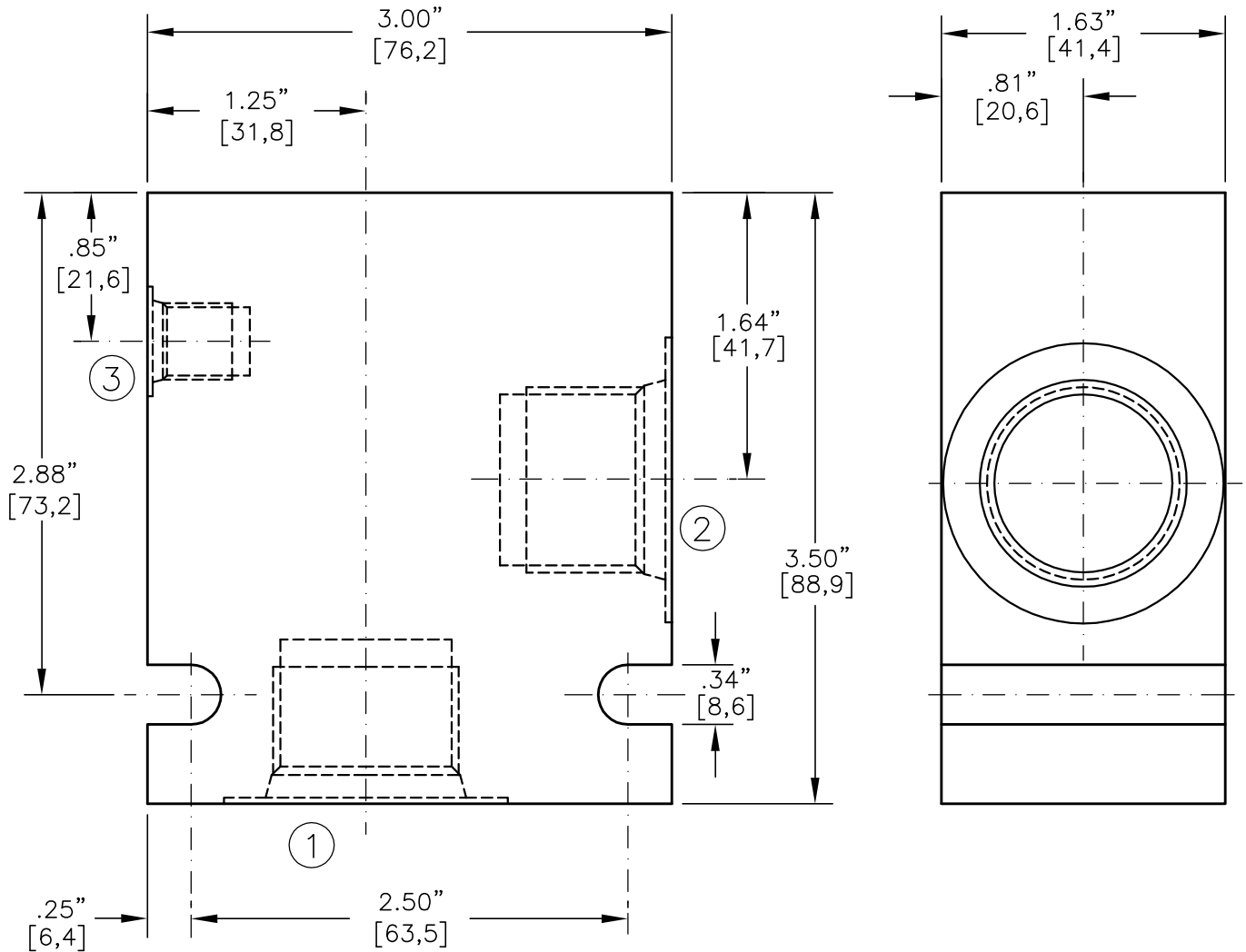
Cavity Finishing Tool



TOOL NO.: T1225-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1225-F-C
MATERIAL: Tungsten Carbide Tipped

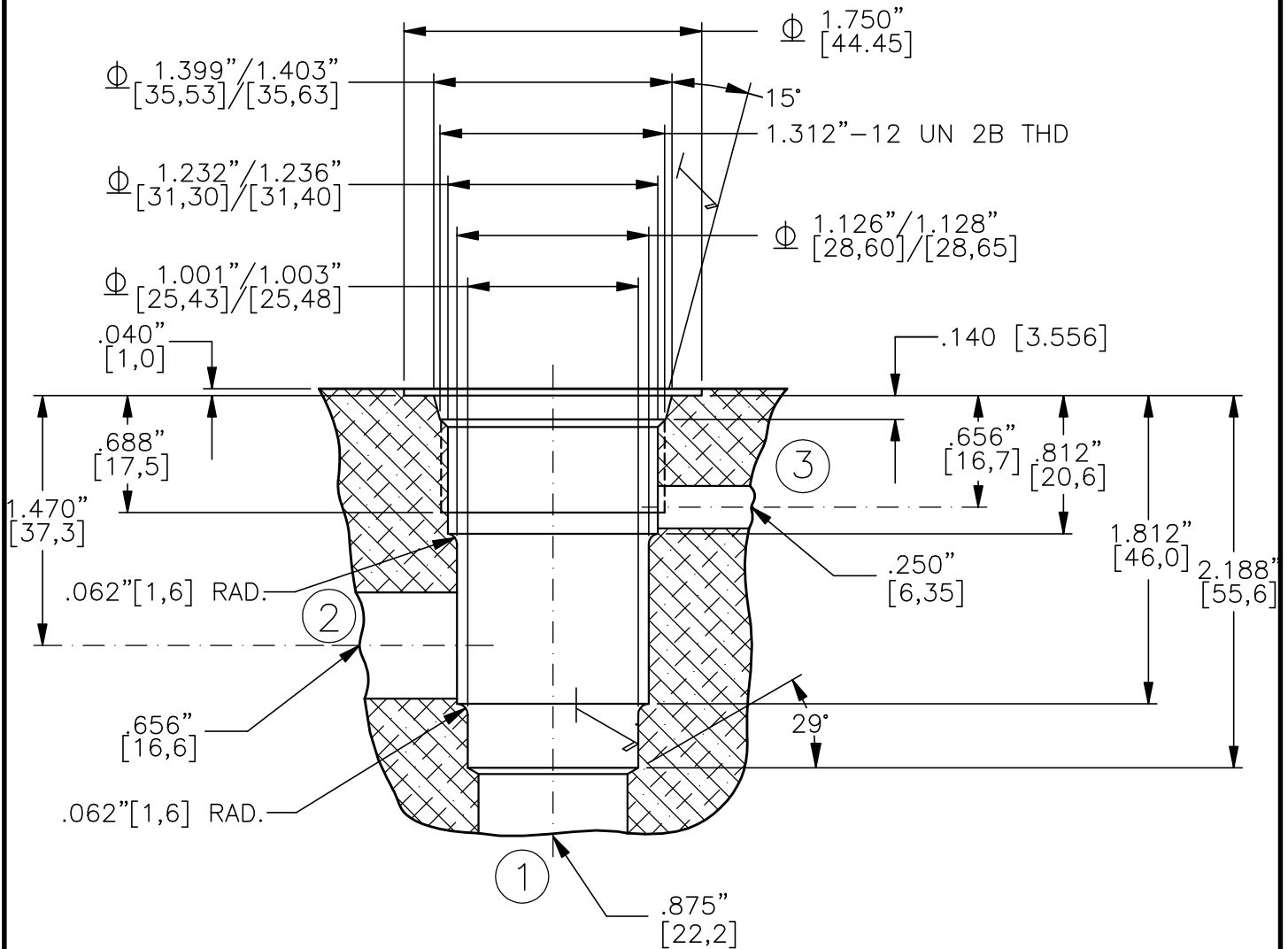


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

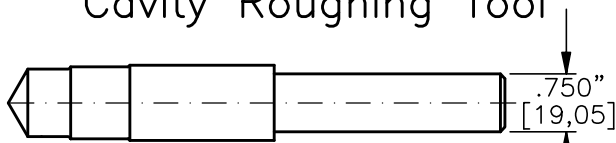
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3
04PA*	30321	04PS*	30327	1/2"-14 NPTF	1/2"-14 NPTF	1/2"-14 NPTF
06PA*	30322	06PS*	30328	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF
04BA	30323	04BS	30329	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP
06BA	30324	06BS	30330	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP
10TA	30325	10TS	30331	SAE - 10	SAE - 10	SAE - 10
12TA	30326	12TS	30332	SAE - 12	SAE - 12	SAE - 12



FINISH $\sqrt{\text{ }} = 1,15m\sqrt{\text{ }} \text{ OR } 45in\sqrt{\text{ }}$

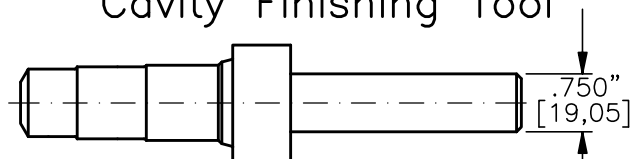
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001"[0,025].

Cavity Roughing Tool



TOOL NO.: T1625-R-H
MATERIAL: High Speed Steel

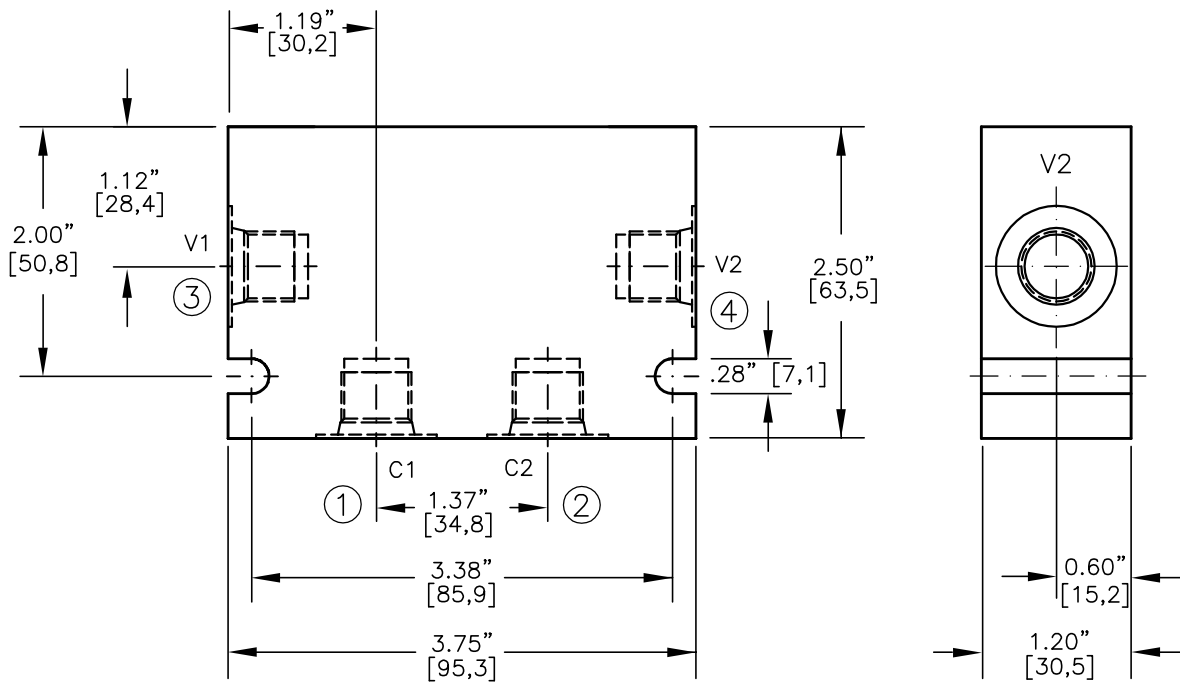
Cavity Finishing Tool



TOOL NO.: T1625-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1625-F-C
MATERIAL: Tungsten Carbide Tipped



DUAL VALVE HOUSING, ALUMINUM OR STEEL

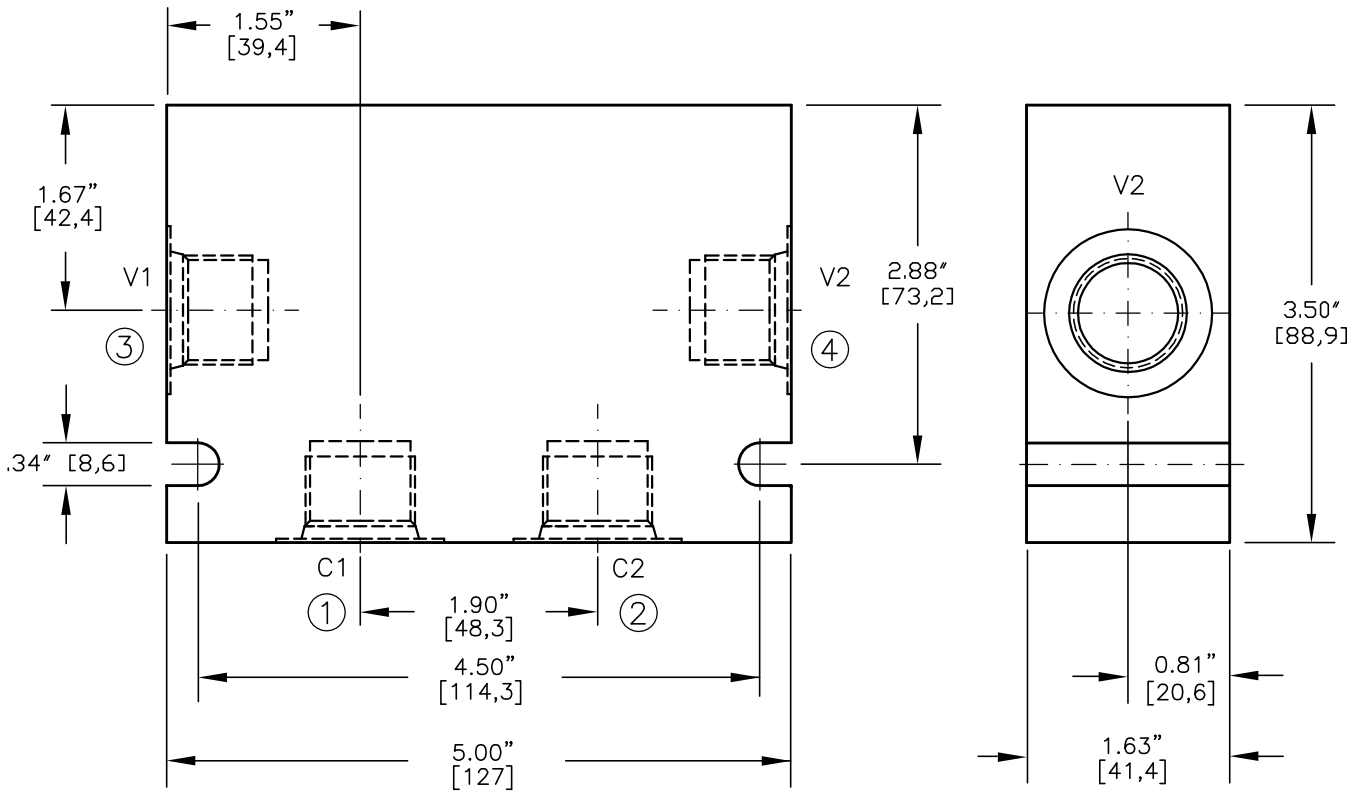


* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
3PA*	30430	3PS*	30434	3/8"-18 NPTF	3/8"-18 NPTF	3/8"-18 NPTF	3/8"-18 NPTF
3BA	30431	3BS	30435	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP
6TA	30432	6TS	30437	SAE - 6	SAE - 6	SAE - 6	SAE - 6
8TA	30433	8TS	30438	SAE - 8	SAE - 8	SAE - 8	SAE - 8



DUAL VALVE HOUSING, ALUMINUM OR STEEL

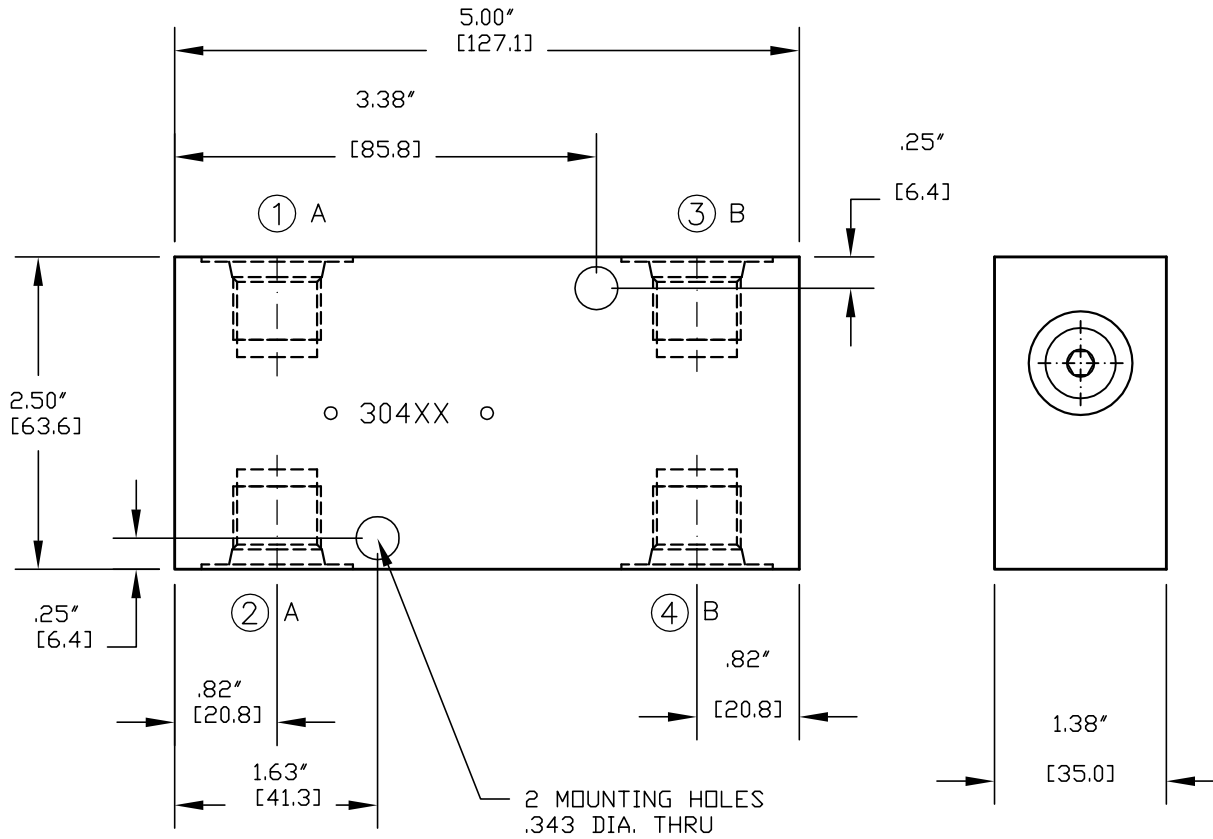


* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

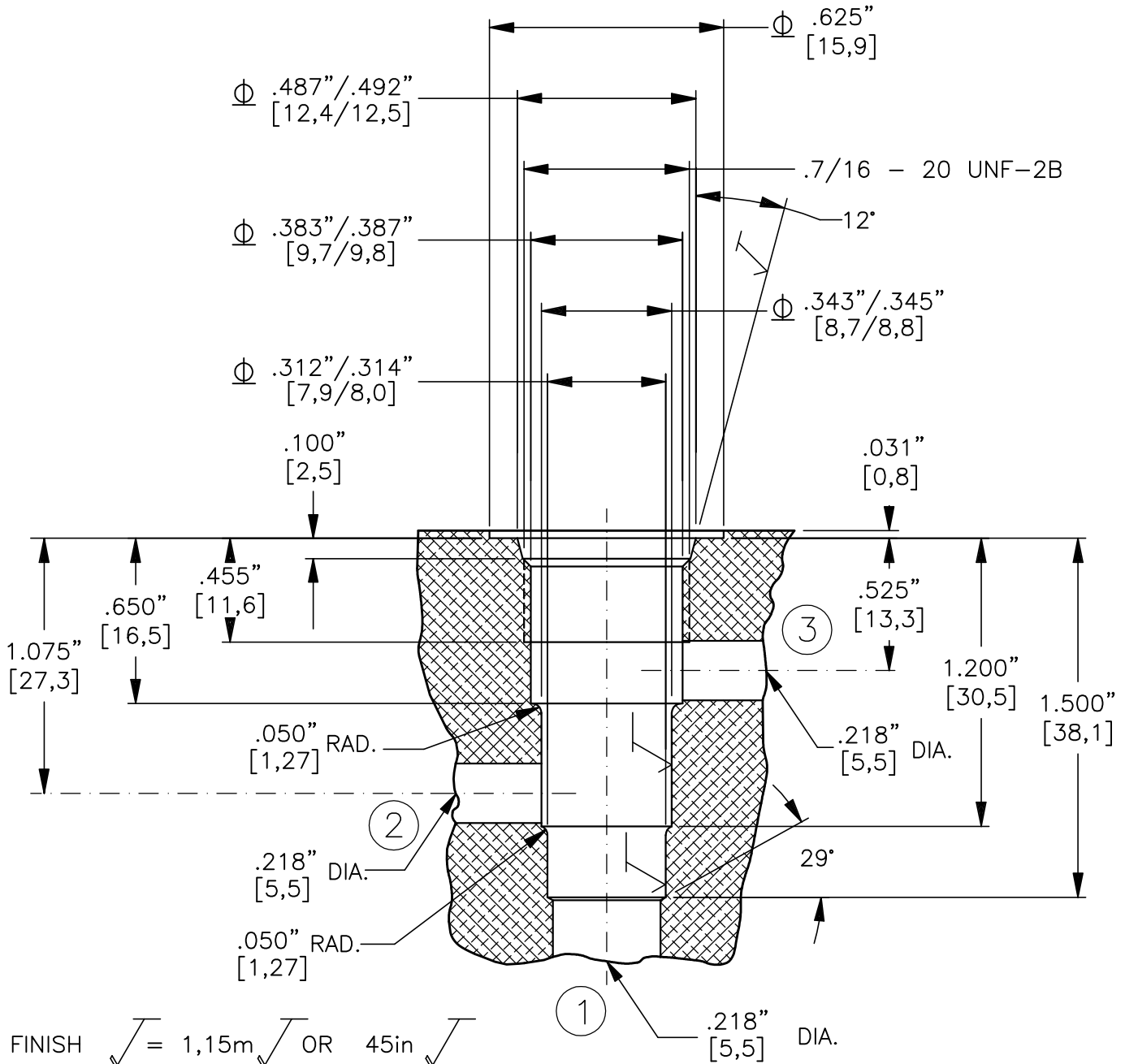
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
04PA*	30340	04PS*	30346	1/2"-14 NPTF	1/2"-14 NPTF	1/2"-14 NPTF	1/2"-14 NPTF
06PA*	30341	06PS*	30347	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF
04BA	30342	04BS	30348	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP
06BA	30343	06BS	30349	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP
10TA	30344	10TS	30350	SAE - 10	SAE - 10	SAE - 10	SAE - 10
12TA	30345	12TS	30351	SAE - 12	SAE - 12	SAE - 12	SAE - 12



DUAL VALVE HOUSING, ALUMINUM OR STEEL

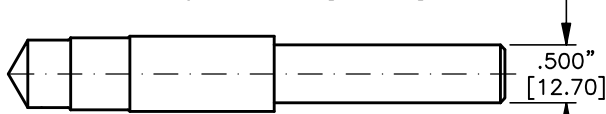


CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
03BA	30467-A	03BS	30471-A	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP
04BA	30468-A	04BS	30472-A	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP
06TA	30469-A	06TS	30473-A	SAE - 6	SAE - 6	SAE - 6	SAE - 6
08TA	30470-A	08TS	30474-A	SAE - 8	SAE - 8	SAE - 8	SAE - 8



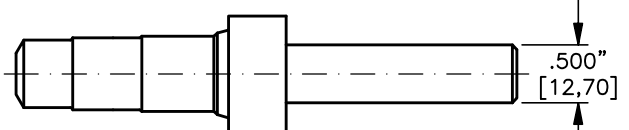
ϕ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool

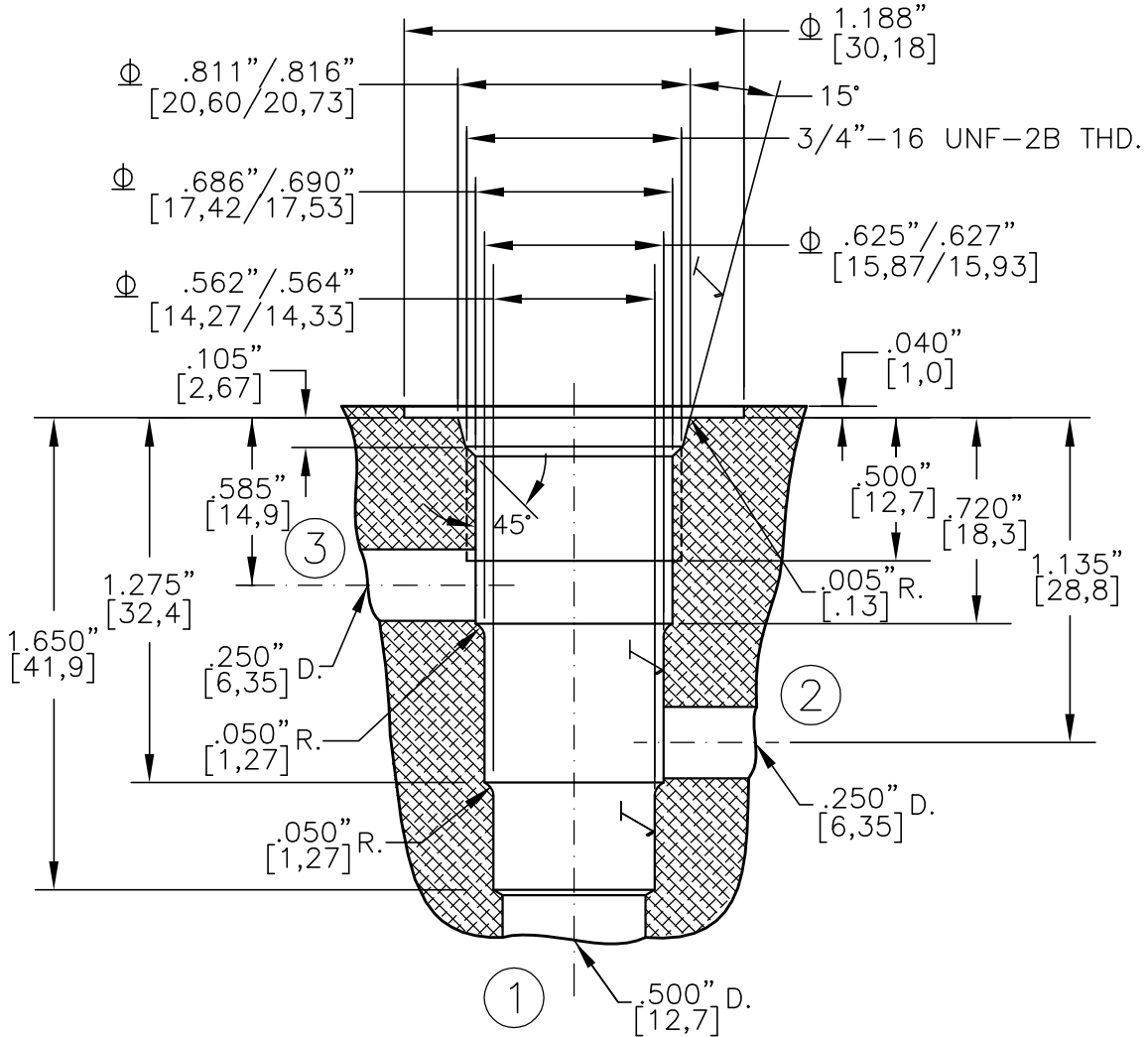


TOOL NO.: T0430-R-H
 MATERIAL: High Speed Steel

Cavity Finishing Tool



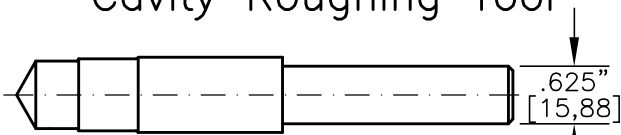
TOOL NO.: T0430-F-H
 MATERIAL: High Speed Steel
 TOOL NO.: T0430-F-C
 MATERIAL: Tungsten Carbide Tipped



FINISH $\sqrt{\quad} = 1,15m \sqrt{\quad}$ OR $45in \sqrt{\quad}$

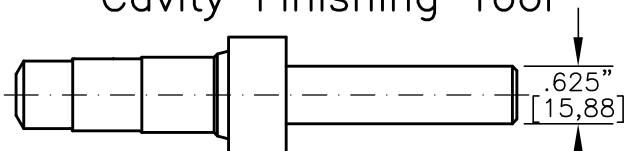
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool



TOOL NO.: T0830-R-H
MATERIAL: High Speed Steel

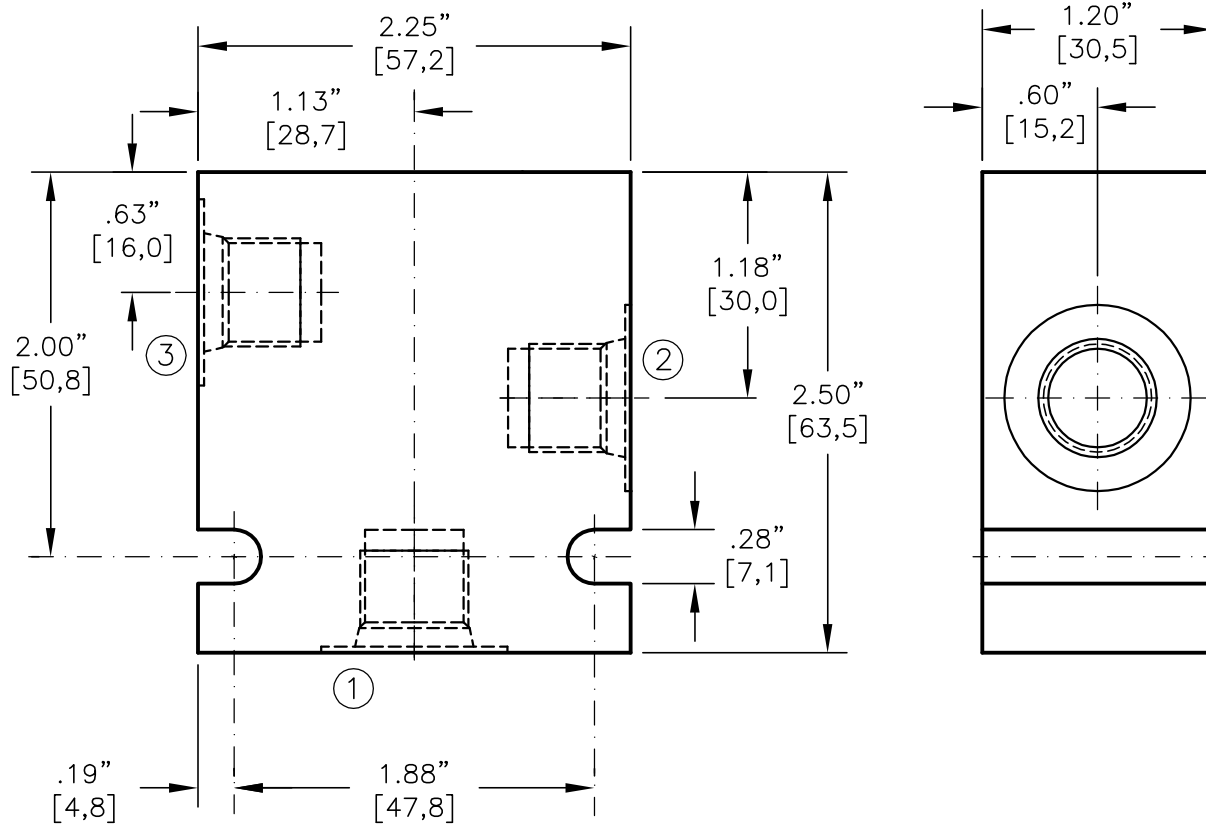
Cavity Finishing Tool



TOOL NO.: T0830-F-H
MATERIAL: High Speed Steel
TOOL NO.: T0830-F-C
MATERIAL: Tungsten Carbide Tipped

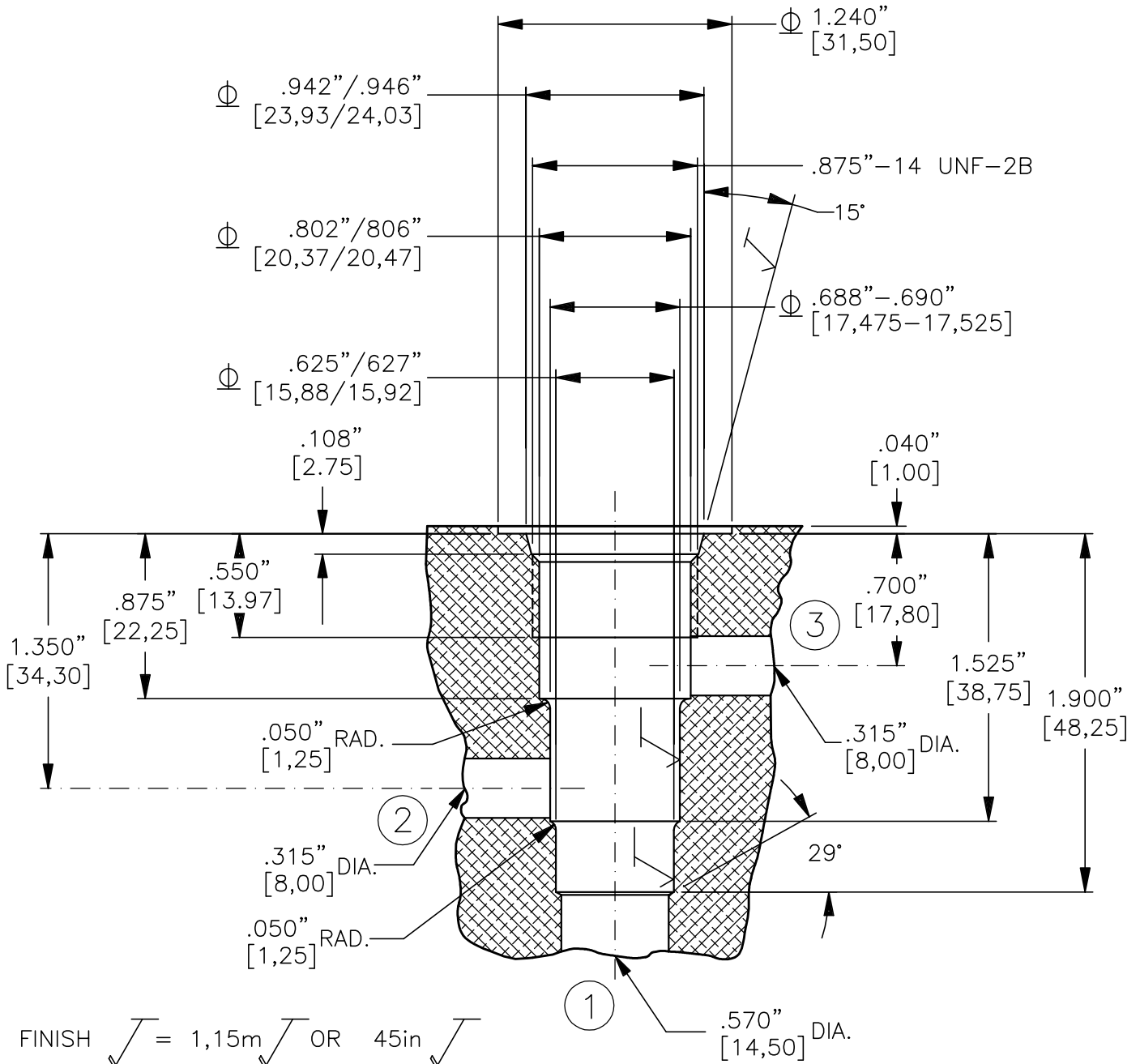


VALVE HOUSING, ALUMINUM OR STEEL.



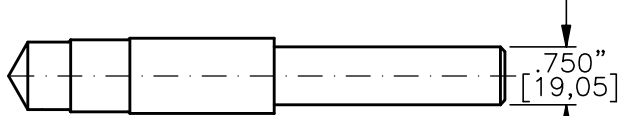
* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 2
02PA*	30406	02PS*	30418	1/4"-18 NPTF	1/4"-18 NPTF	1/4"-18 NPTF
02BA	30407	02BS	30419	G 1/4"-19 BSPP	G 1/4"-19 BSPP	G 1/4"-19 BSPP
06TA	30408	06TS	30420	SAE - 6	SAE - 6	SAE - 6



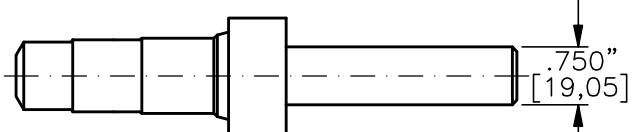
ϕ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001"[0,025].

Cavity Roughing Tool



TOOL NO.: T1030-R-H
MATERIAL: High Speed Steel

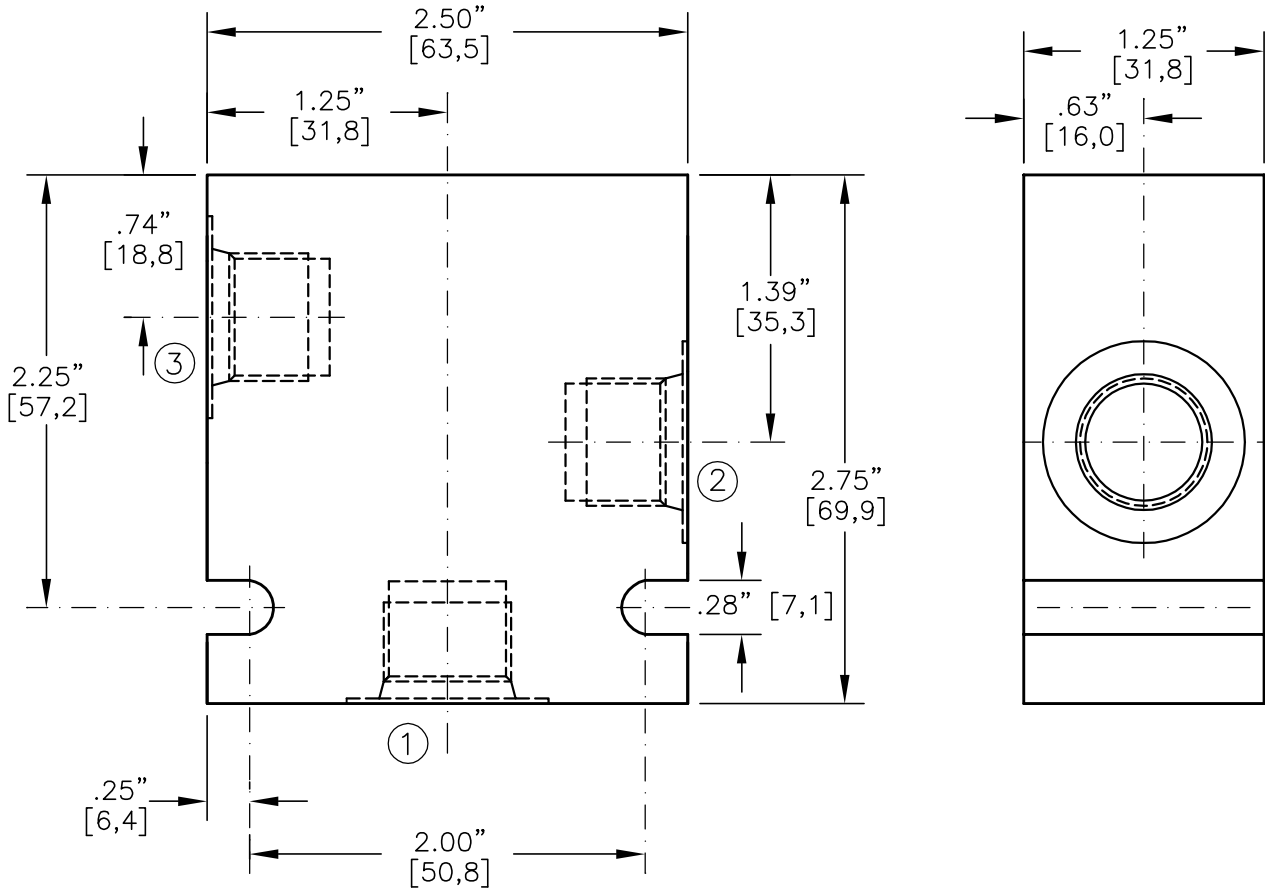
Cavity Finishing Tool



TOOL NO.: T1030-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1030-F-C
MATERIAL: Tungsten Carbide Tipped

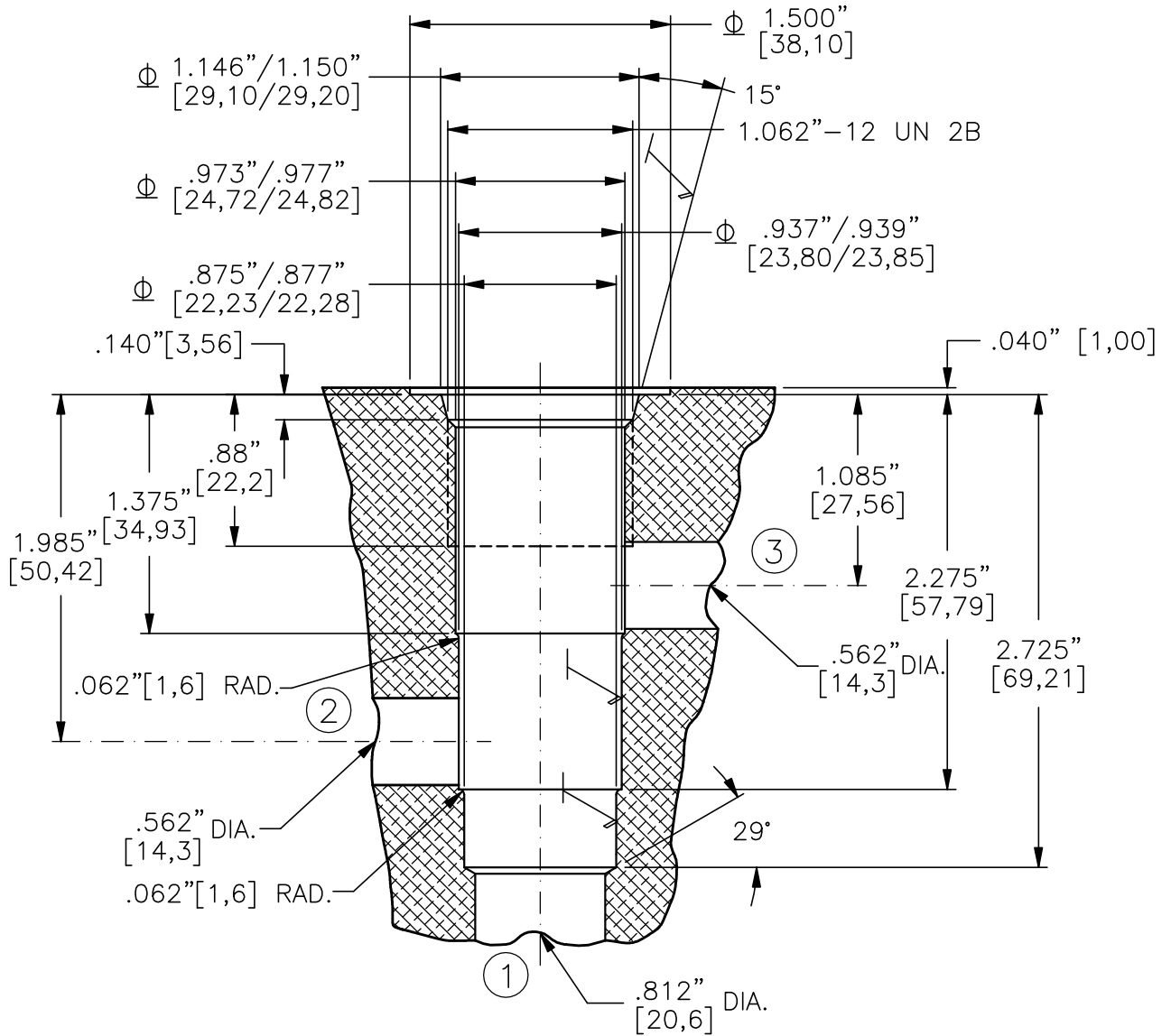


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

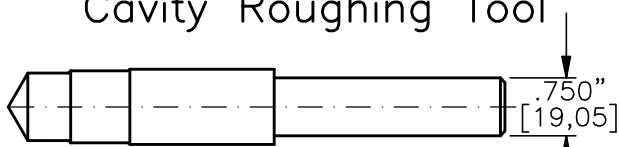
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3
02PA*	30144	02PS*	30150	1/4"-18 NPTF	1/4"-18 NPTF	1/4"-18 NPTF
03PA*	30145	03PS*	30151	3/8"-18 NPTF	3/8"-18 NPTF	3/8"-18 NPTF
02BA	30146	02BS	30152	G 1/4"-19 BSPP	G 1/4"-19 BSPP	G 1/4"-19 BSPP
03BA	30147	03BS	30153	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP
06TA	30148	06TS	30154	SAE - 6	SAE - 6	SAE - 6
08TA	30149	08TS	30155	SAE - 8	SAE - 8	SAE - 8



FINISH $\sqrt{\text{ }} = 1,15\text{m}\sqrt{\text{ }} \text{ OR } 45\text{in}\sqrt{\text{ }}$

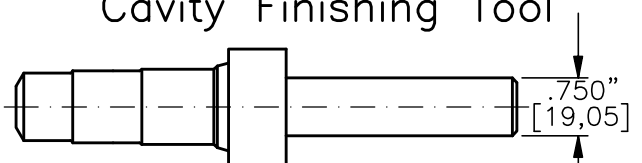
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool



TOOL NO.: T1230-R-H
MATERIAL: High Speed Steel

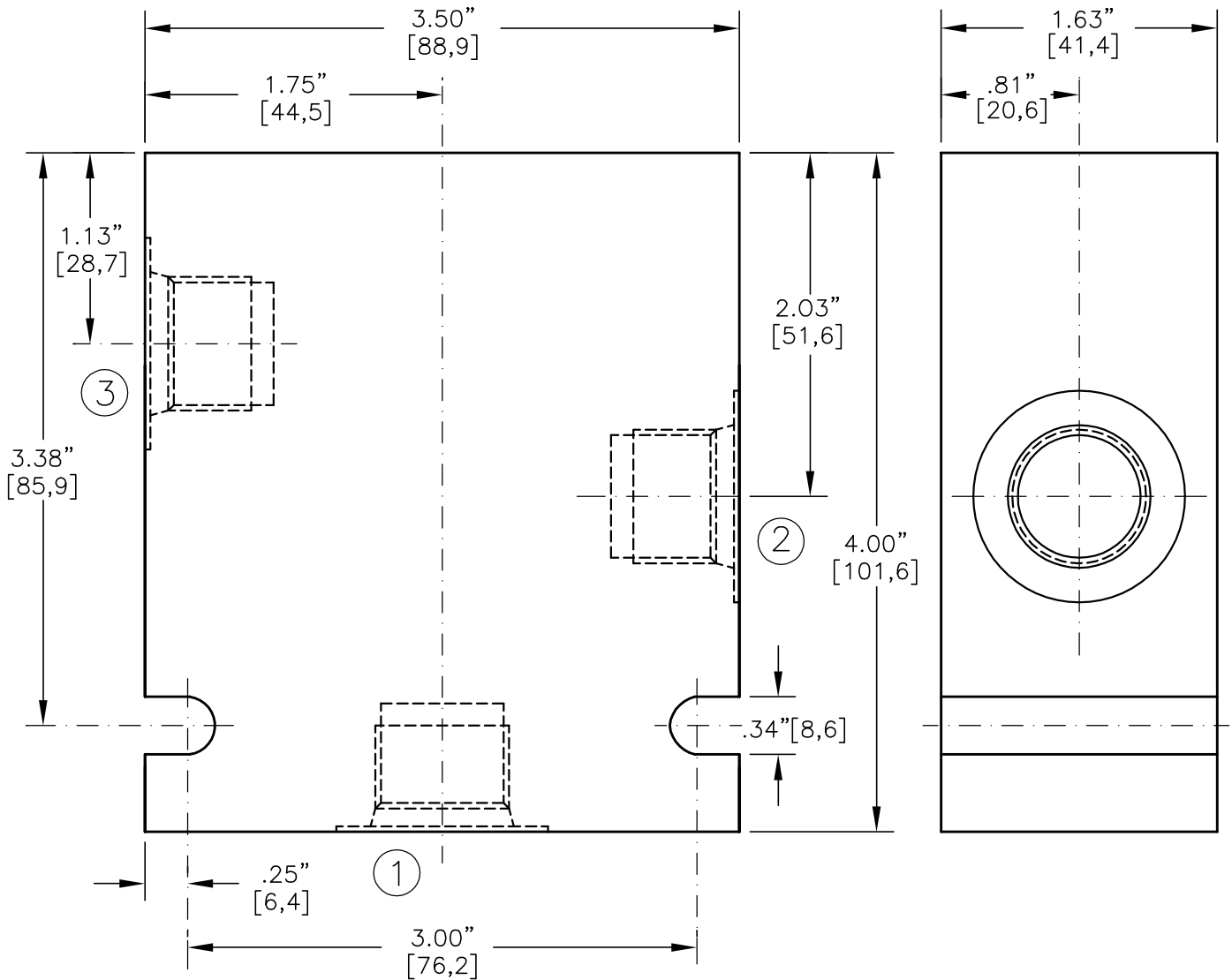
Cavity Finishing Tool



TOOL NO.: T1230-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1230-F-C
MATERIAL: Tungsten Carbide Tipped



VALVE HOUSING, ALUMINUM OR STEEL.

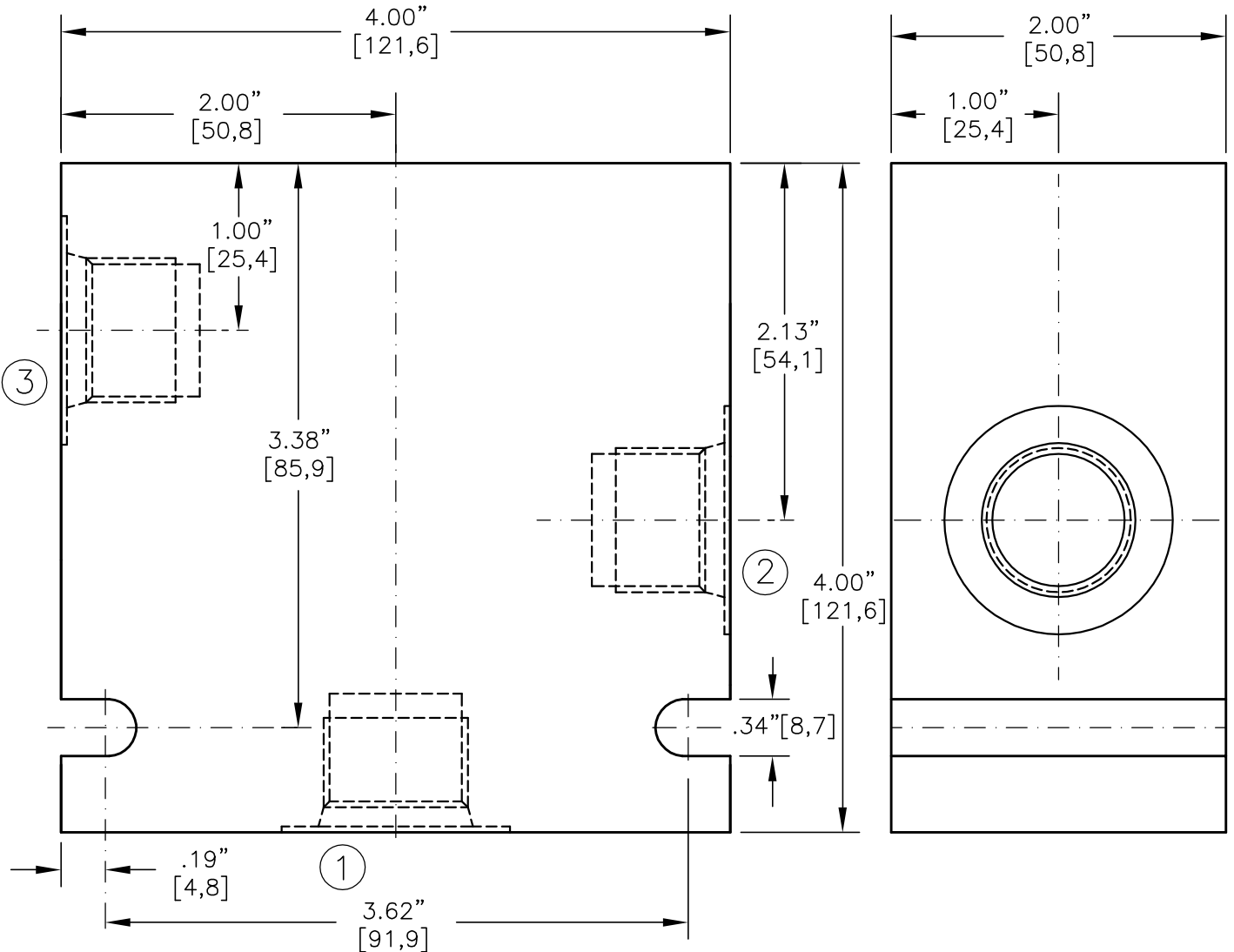


* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3
04PA*	30156	04PS*	30162	1/2"-14 NPTF	1/2"-14 NPTF	1/2"-14 NPTF
06PA*	30157	06PS*	30163	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF
04BA	30158	04BS	30164	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP
06BA	30159	06BS	30165	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP
10TA	30160	10TS	30166	SAE - 10	SAE - 10	SAE - 10
12TA	30161	12TS	30167	SAE - 12	SAE - 12	SAE - 12

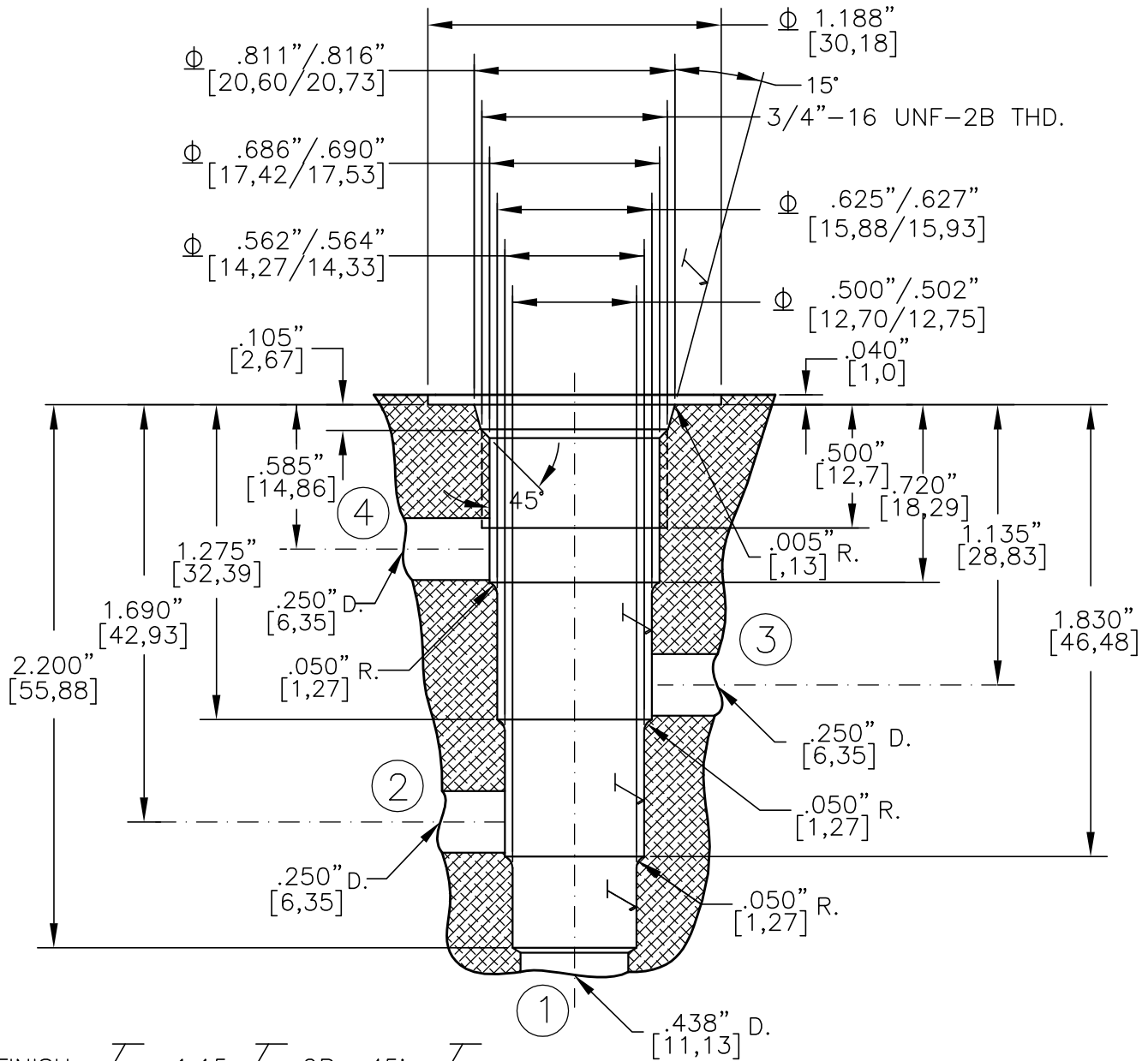


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

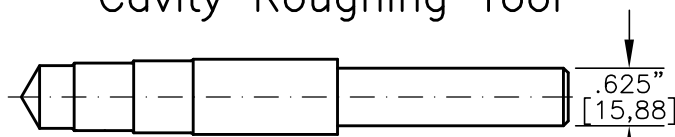
CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3
06PA*	30204	06PS*	30210	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF
08PA*	30205	08PS*	30211	1"-11.5 NPTF	1"-11.5 NPTF	1"-11.5 NPTF
06BA	30206	06BS	30212	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP
08BA	30207	08BS	30213	G 1"-11 BSPP	G 1"-11 BSPP	G 1"-11 BSPP
12TA	30208	12TS	30214	SAE - 12	SAE - 12	SAE - 12
16TA	30209	16TS	30215	SAE - 16	SAE - 16	SAE - 16



FINISH $\sqrt{\quad} = 1,15m\sqrt{\quad}$ OR $45in\sqrt{\quad}$

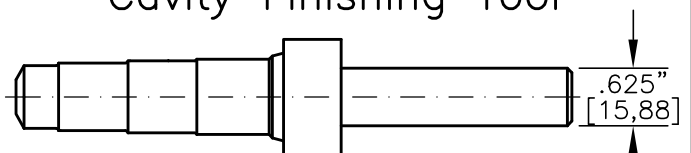
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN $.001"$ [0,025].

Cavity Roughing Tool



TOOL NO.: T0840-R-H
MATERIAL: High Speed Steel

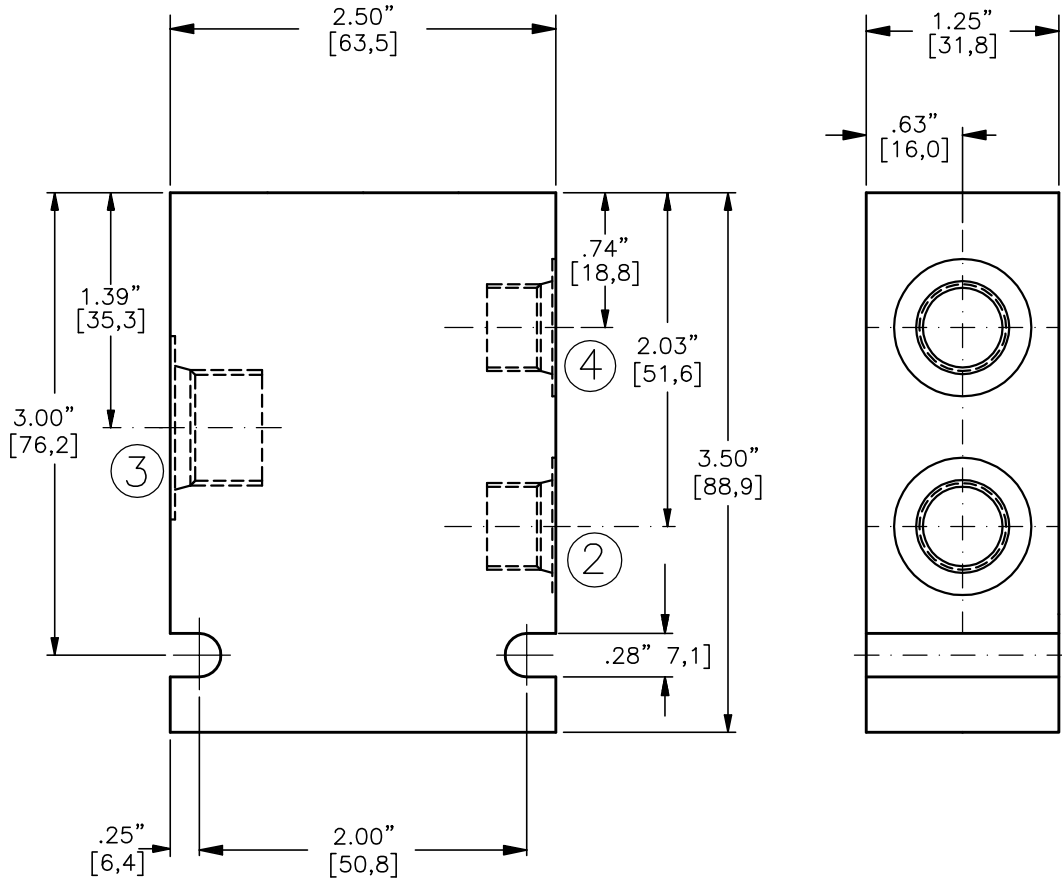
Cavity Finishing Tool



TOOL NO.: T0840-F-H
MATERIAL: High Speed Steel
TOOL NO.: T0840-F-C
MATERIAL: Tungsten Carbide Tipped



VALVE HOUSING, ALUMINUM OR STEEL.
FOR FLOW DIVIDER/COMBINER VALVE.



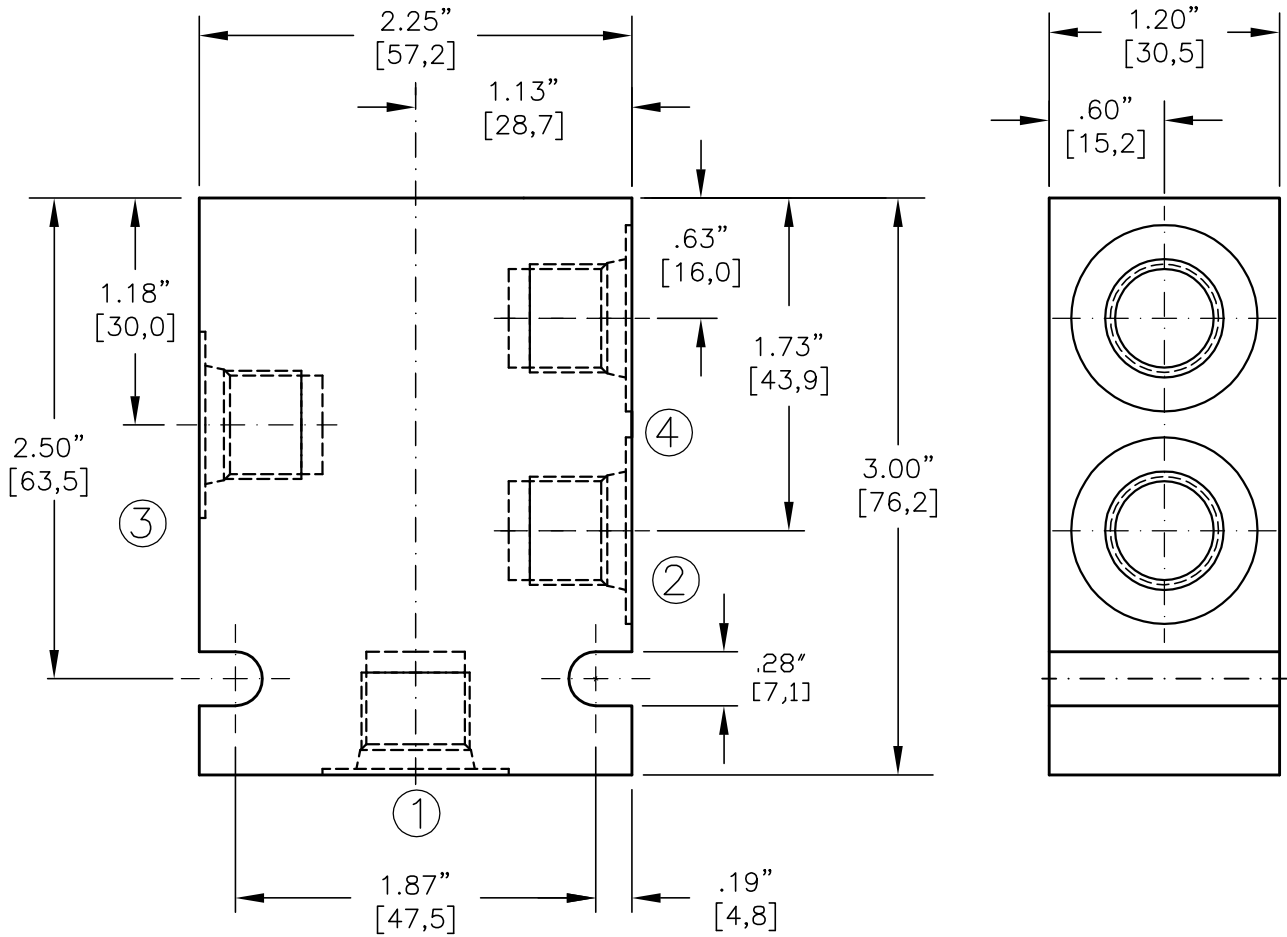
IN CERTAIN SITUATIONS THE STANDARD 4-WAY BODY SHOWN ON THE PRECEDING PAGE MAY BE USED IF PORT 1 IS PLUGGED. NOTE THE STANDARD BODY HAS ALL THE SAME SIZED PORTS WHILE THE FLOW DIVIDER/COMBINER BODY SHOWN HERE DOES NOT.

* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
03PA*	30228	03PS*	30234	NONE	1/4"-18 NPTF	3/8"-18 NPTF	1/4"-18 NPTF
04PA*	30229	04PS*	30235	NONE	3/8"-18 NPTF	1/2"-14 NPTF	3/8"-18 NPTF
03BA	30230	03BS	30236	NONE	G 1/4"-19 BSPP	G 3/8"-19 BSPP	G 1/4"-19 BSPP
04BA	30231	04BS	30237	NONE	G 3/8"-19 BSPP	G 1/2"-14 BSPP	G 3/8"-19 BSPP
08TA	30232	08TS	30238	NONE	SAE - 6	SAE - 8	SAE - 6
10TA	30233	10TS	30239	NONE	SAE - 8	SAE - 10	SAE - 8

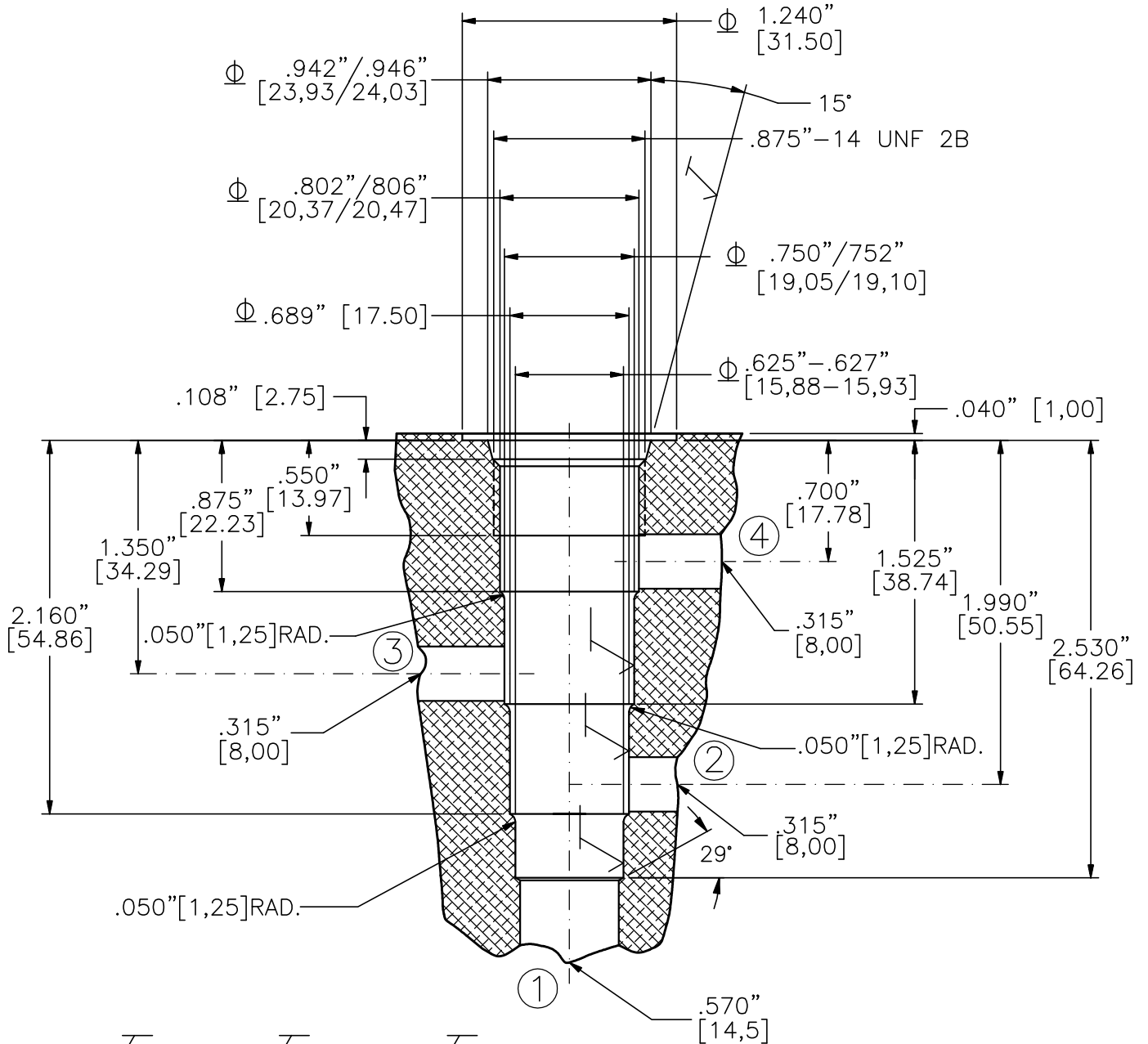


VALVE HOUSING, ALUMINUM OR STEEL.



* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
02PA*	30409	02PS*	30421	1/4"-18 NPTF	1/4"-18 NPTF	1/4"-18 NPTF	1/4"-18 NPTF
02BA	30410	02BS	30422	G 1/4"-19 BSPP	G 1/4"-19 BSPP	G 1/4"-19 BSPP	G 1/4"-19 BSPP
06TA	30411	06TS	30423	SAE - 6	SAE - 6	SAE - 6	SAE - 6



FINISH $\sqrt{\quad} = 1,15m \sqrt{\quad}$ OR $45in \sqrt{\quad}$

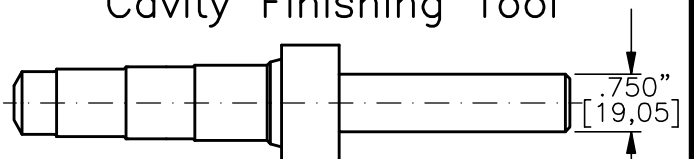
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool



TOOL NO.: T1040-R-H
MATERIAL: High Speed Steel

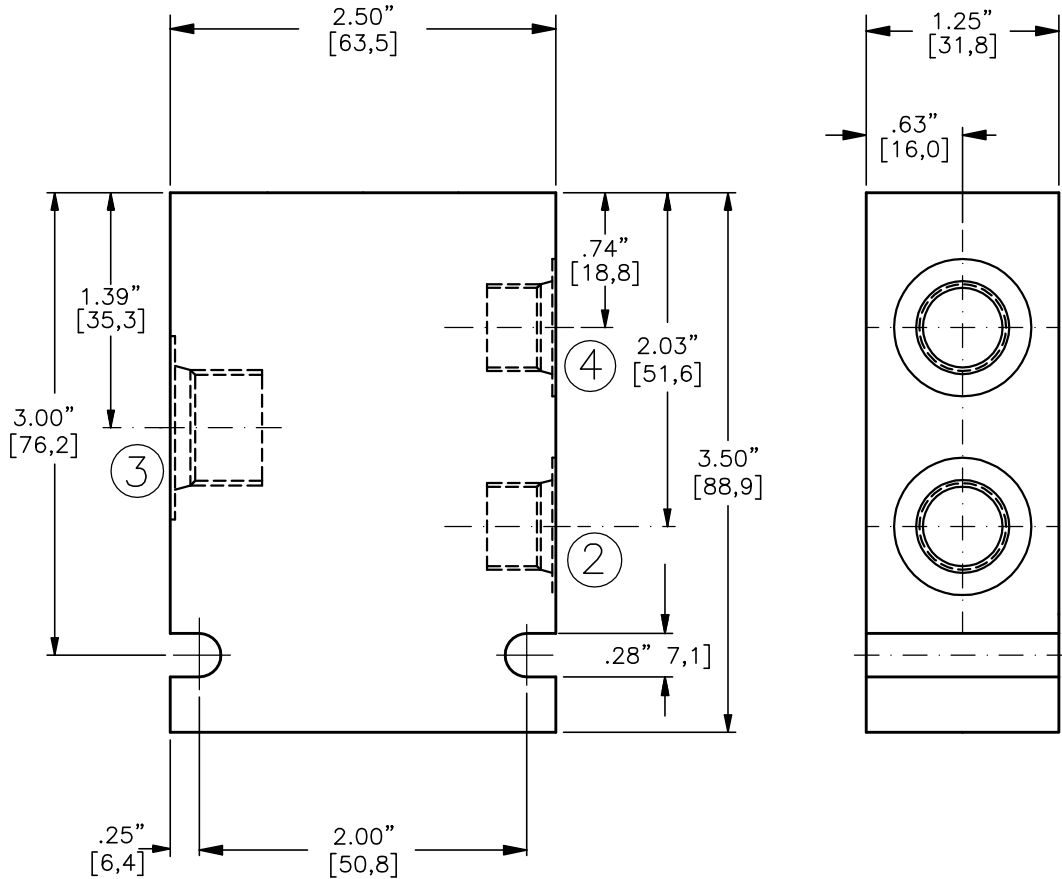
Cavity Finishing Tool



TOOL NO.: T1040-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1040-F-C
MATERIAL: Tungsten Carbide Tipped



VALVE HOUSING, ALUMINUM OR STEEL.
FOR FLOW DIVIDER/COMBINER VALVE.



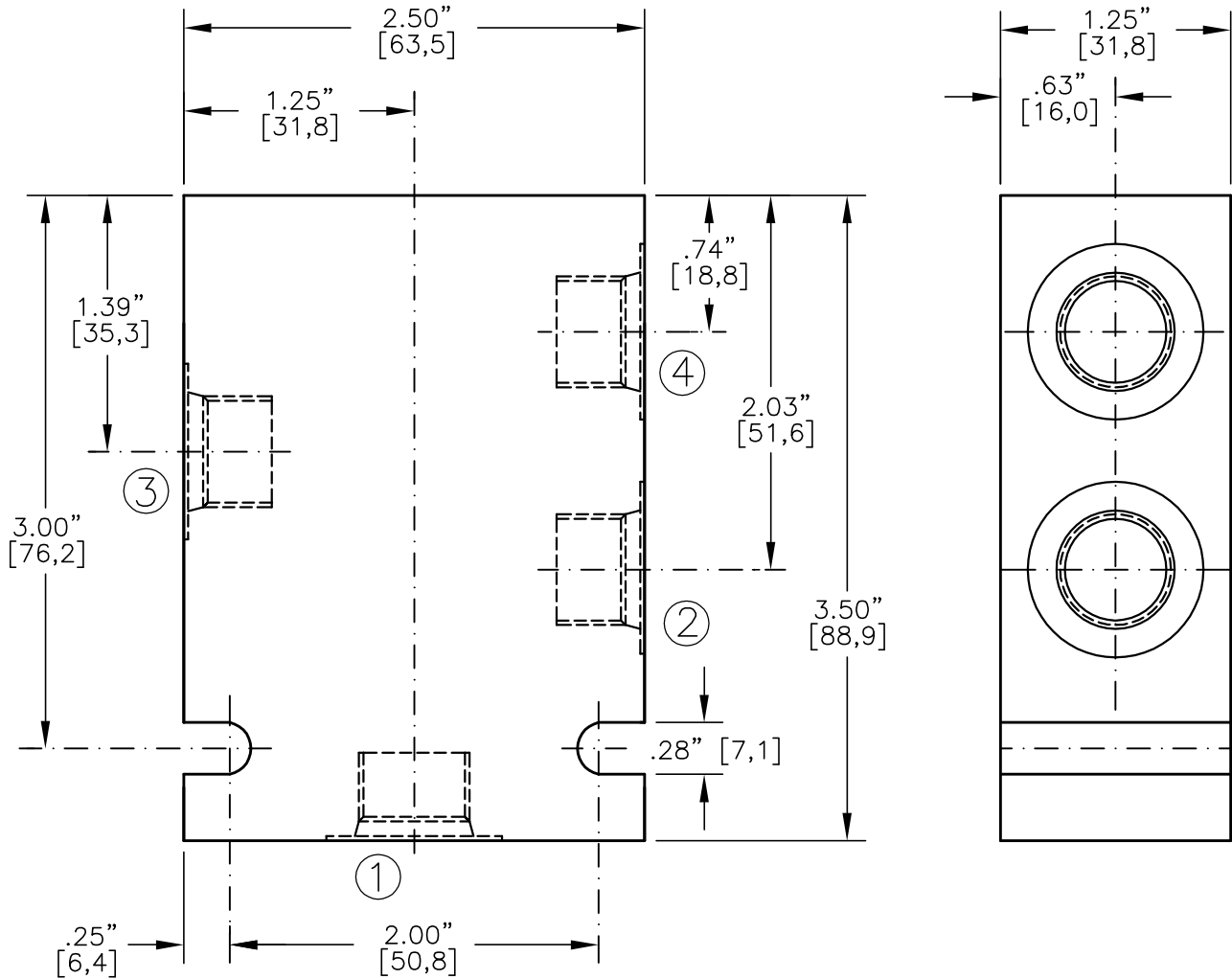
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* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
03PA*	30228	03PS*	30234	NONE	1/4"-18 NPTF	3/8"-18 NPTF	1/4"-18 NPTF
04PA*	30229	04PS*	30235	NONE	3/8"-18 NPTF	1/2"-14 NPTF	3/8"-18 NPTF
03BA	30230	03BS	30236	NONE	G 1/4"-19 BSPP	G 3/8"-19 BSPP	G 1/4"-19 BSPP
04BA	30231	04BS	30237	NONE	G 3/8"-19 BSPP	G 1/2"-14 BSPP	G 3/8"-19 BSPP
08TA	30232	08TS	30238	NONE	SAE - 6	SAE - 8	SAE - 6
10TA	30233	10TS	30239	NONE	SAE - 8	SAE - 10	SAE - 8

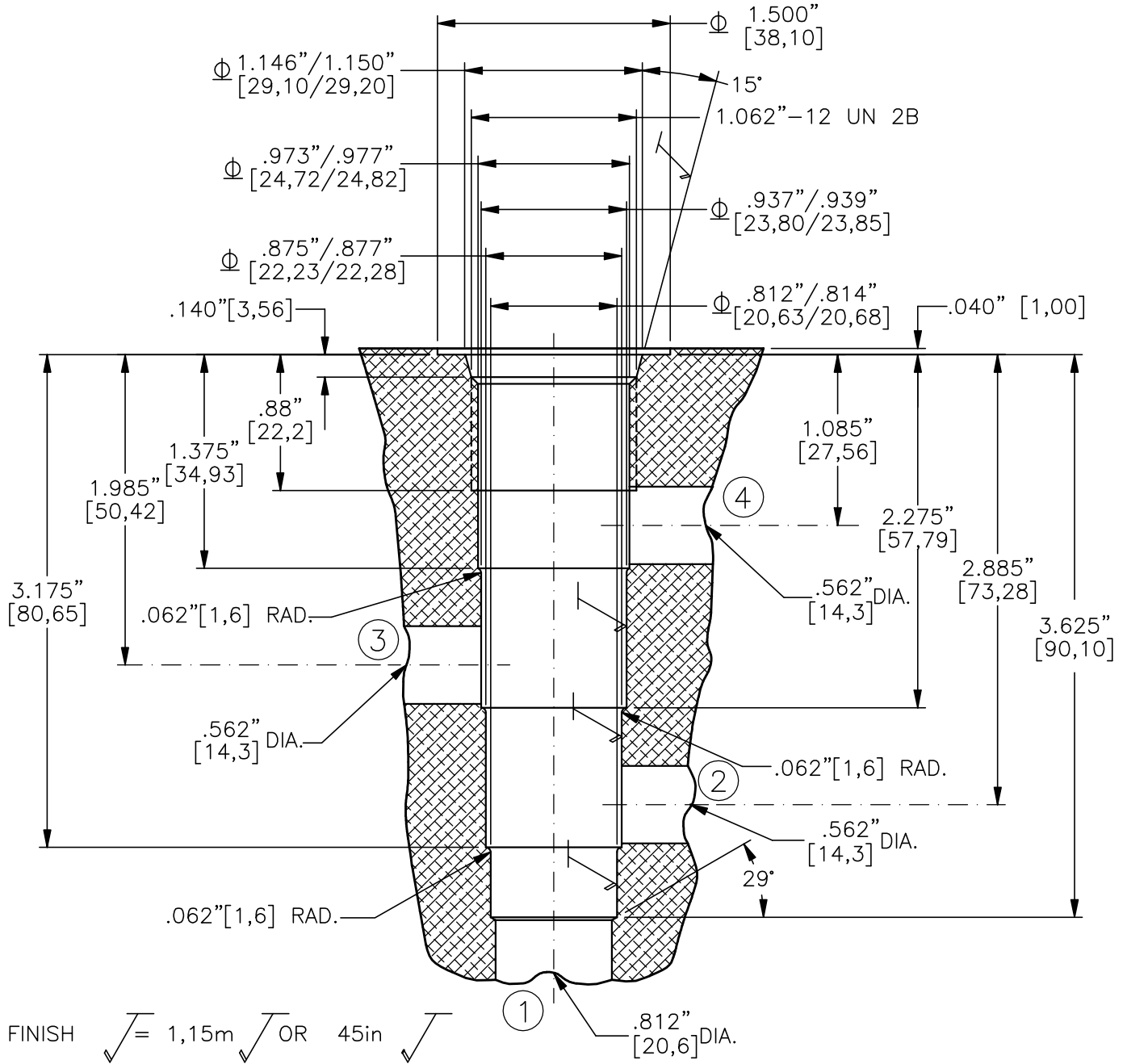


VALVE HOUSING, ALUMINUM OR STEEL.



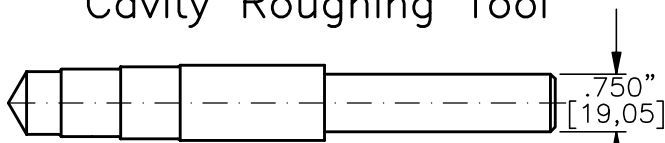
* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
02PA*	30168	02PS*	30174	1/4"-18 NPTF	1/4"-18 NPTF	1/4"-18 NPTF	1/4"-18 NPTF
03PA*	30169	03PS*	30175	3/8"-18 NPTF	3/8"-18 NPTF	3/8"-18 NPTF	3/8"-18 NPTF
02BA	30170	02BS	30176	G 1/4"-19 BSPP	G 1/4"-19 BSPP	G 1/4"-19 BSPP	G 1/4"-19 BSPP
03BA	30171	03BS	30177	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP	G 3/8"-19 BSPP
06TA	30172	06TS	30178	SAE - 6	SAE - 6	SAE - 6	SAE - 6
08TA	30173	08TS	30179	SAE - 8	SAE - 8	SAE - 8	SAE - 8



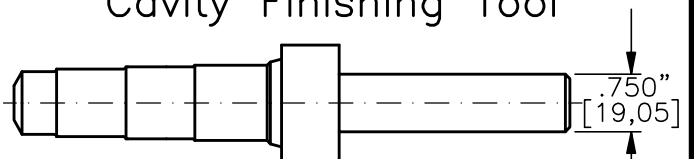
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001"[0,025].

Cavity Roughing Tool



TOOL NO.: T1240-R-H
 MATERIAL: High Speed Steel

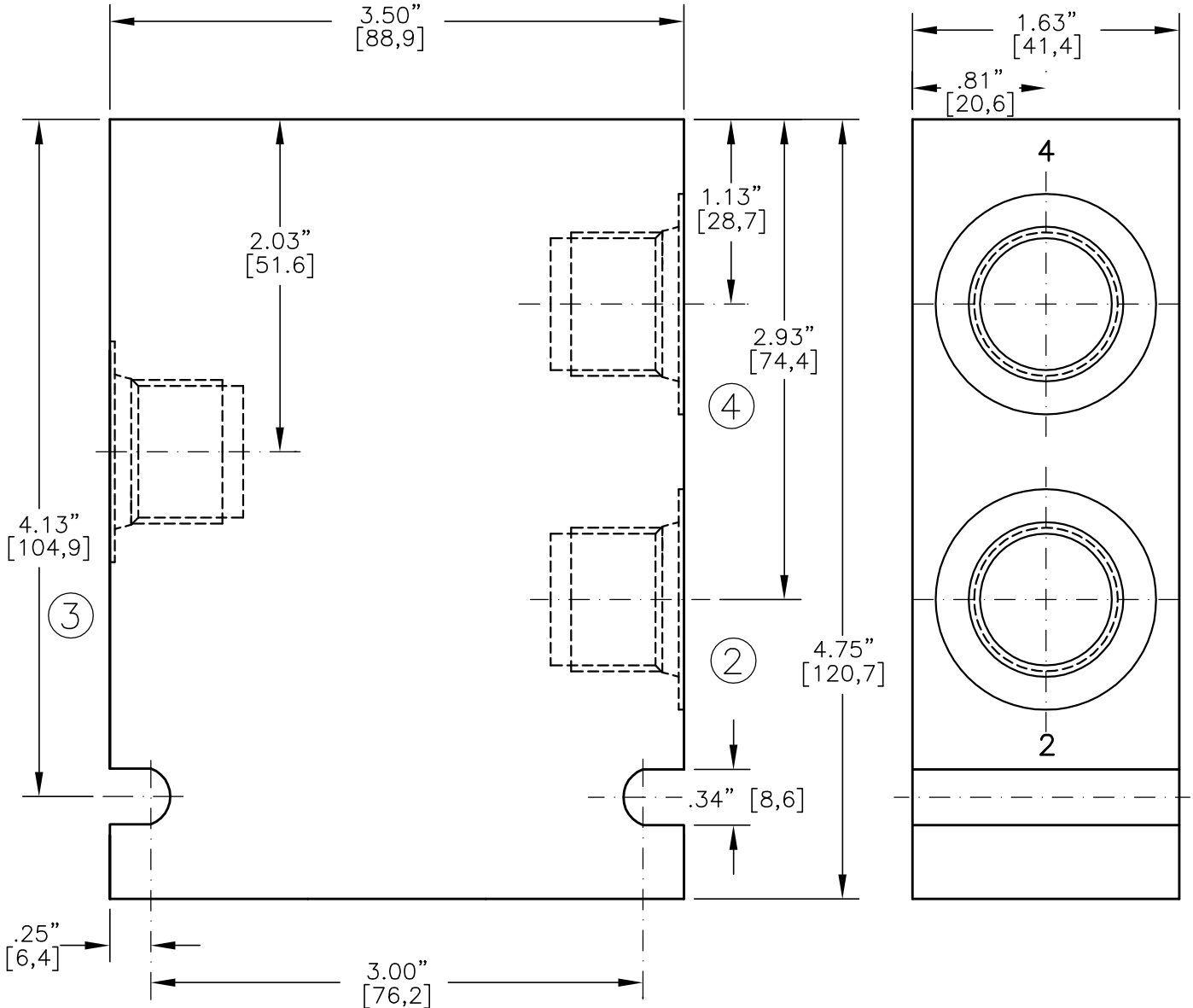
Cavity Finishing Tool



TOOL NO.: T1240-F-H
 MATERIAL: High Speed Steel
 TOOL NO.: T1240-F-C
 MATERIAL: Tungsten Carbide Tipped



VALVE HOUSING, ALUMINUM OR STEEL.
FOR FLOW DIVIDER/COMBINER VALVE



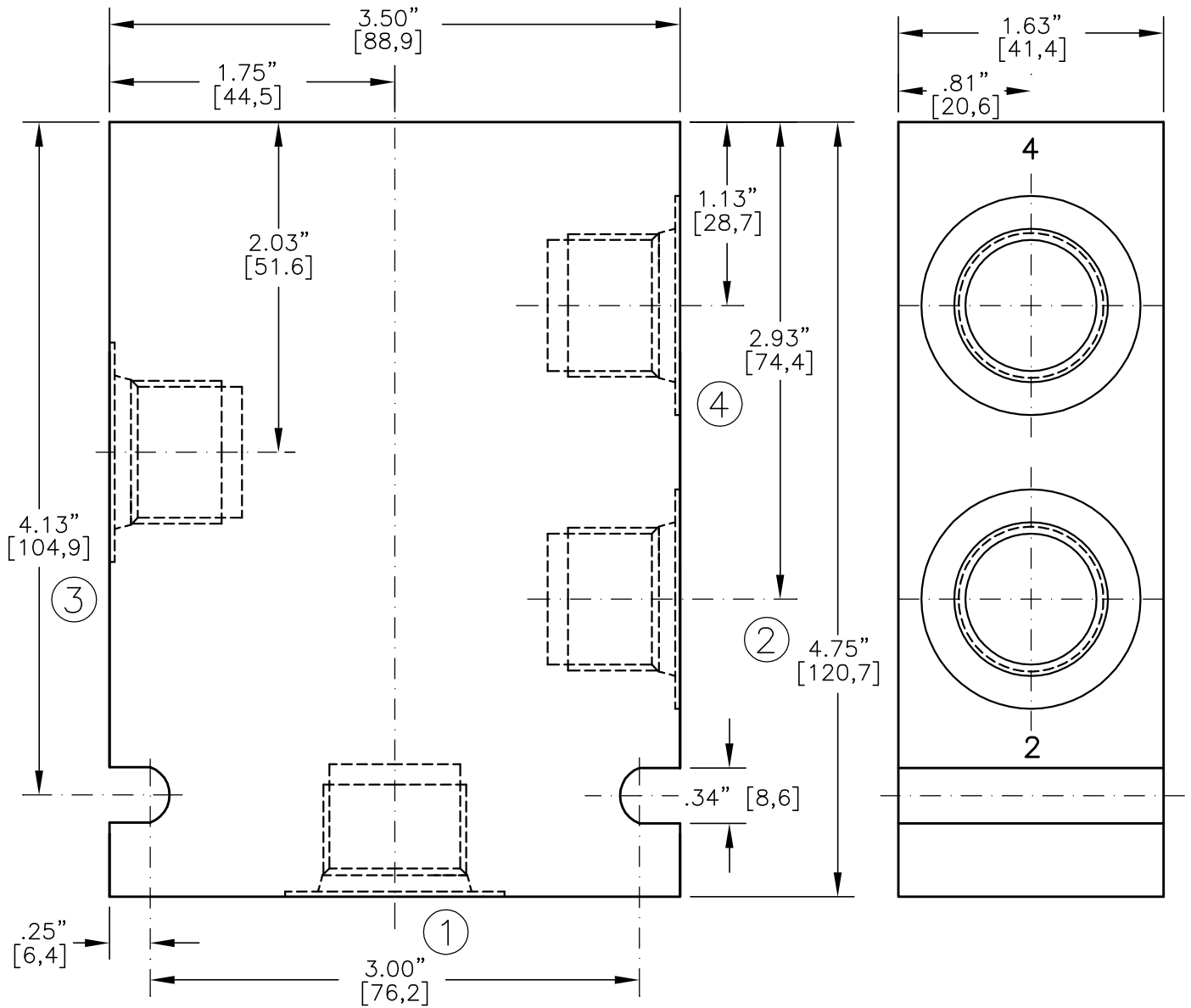
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* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
06PA*	30353	06PS*	30359	NONE	1/2"-14 NPTF	3/4"-14 NPTF	1/2"-14 NPTF
06BA	30355	06BS	30361	NONE	G 1/2"-14 BSPP	G 3/4"-14 BSPP	G 1/2"-14 BSPP
12TA	30357	12TS	30363	NONE	SAE - 10	SAE - 12	SAE - 10

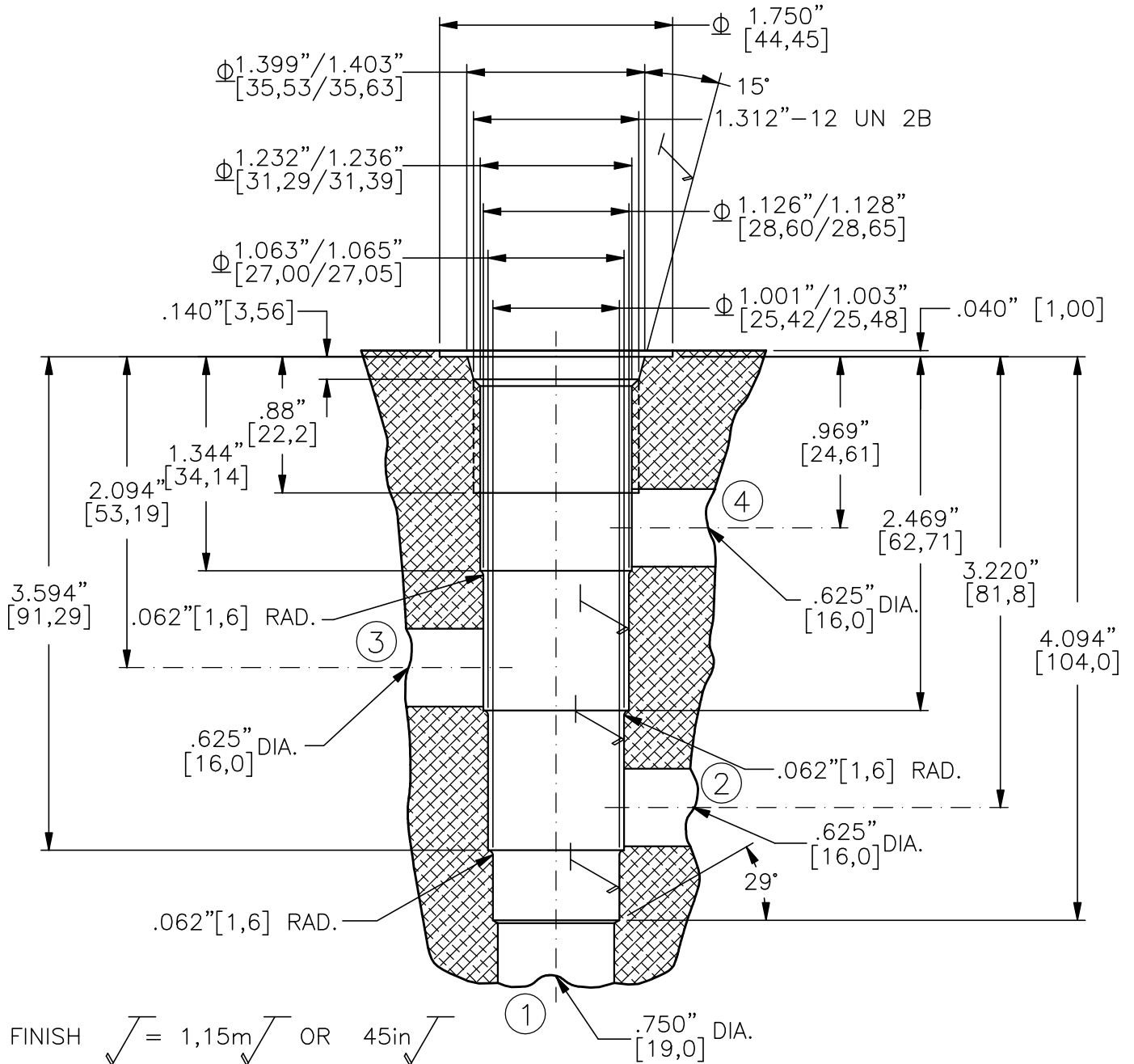


VALVE HOUSING, ALUMINUM OR STEEL.



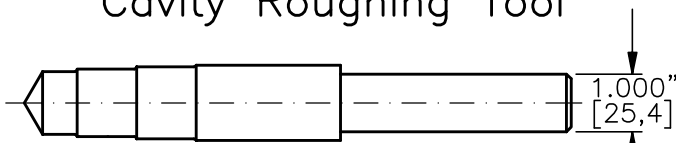
* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
04PA*	30180	04PS*	30186	1/2"-14 NPTF	1/2"-14 NPTF	1/2"-14 NPTF	1/2"-14 NPTF
06PA*	30181	06PS*	30187	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF
04BA	30182	04BS	30188	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP	G 1/2"-14 BSPP
06BA	30183	06BS	30189	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP
10TA	30184	10TS	30190	SAE - 10	SAE - 10	SAE - 10	SAE - 10
12TA	30185	12TS	30191	SAE - 12	SAE - 12	SAE - 12	SAE - 12



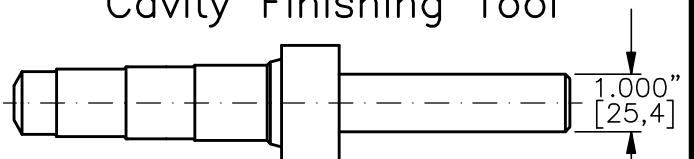
Φ THESE DIAMETERS MUST BE CONCENTRIC WITH EACH OTHER AND PERPENDICULAR TO THE SPOTFACE WITHIN .001" [0,025].

Cavity Roughing Tool



TOOL NO.: T1640-R-H
MATERIAL: High Speed Steel

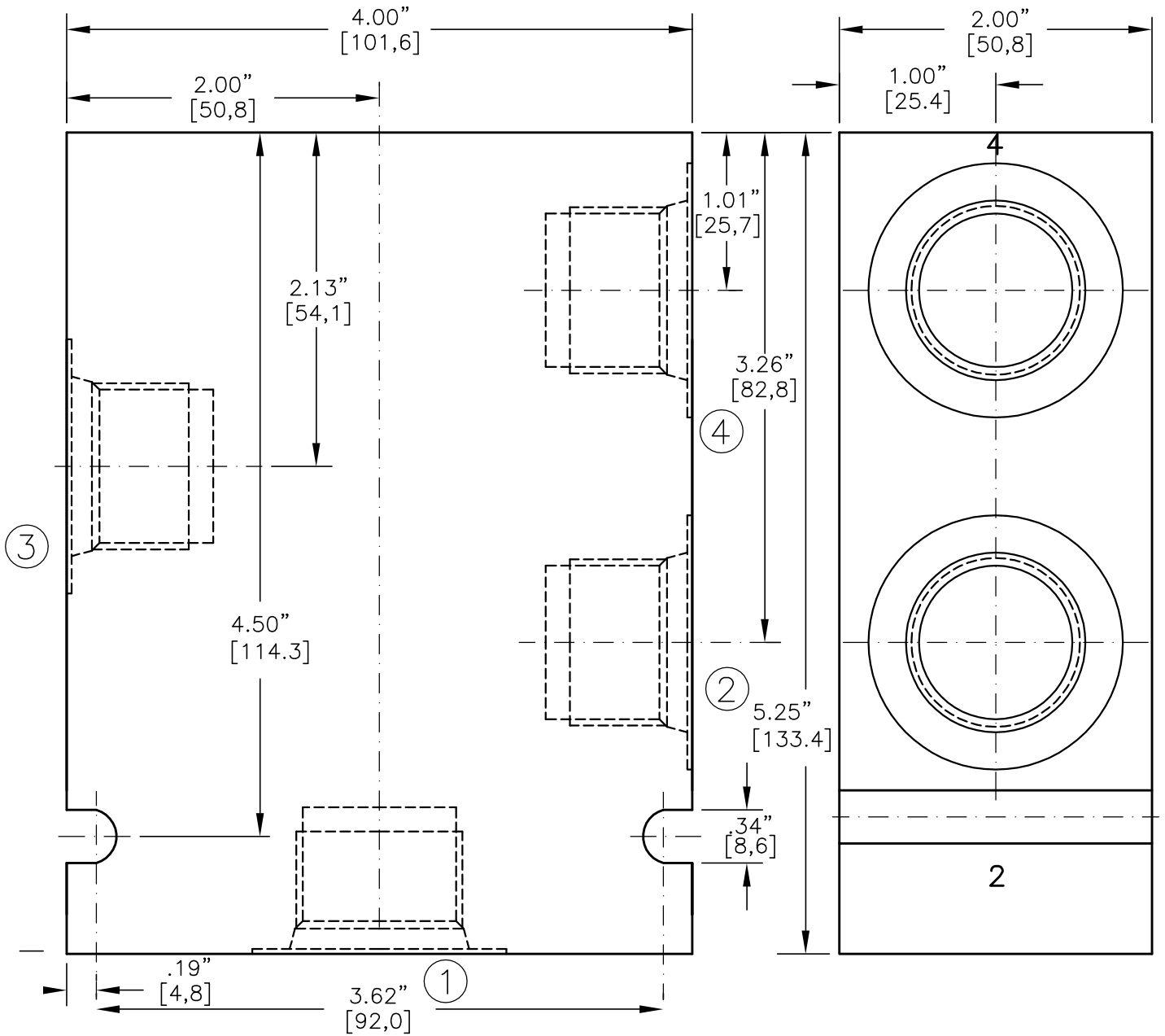
Cavity Finishing Tool



TOOL NO.: T1640-F-H
MATERIAL: High Speed Steel
TOOL NO.: T1640-F-C
MATERIAL: Tungsten Carbide Tipped



VALVE HOUSING, ALUMINUM OR STEEL.

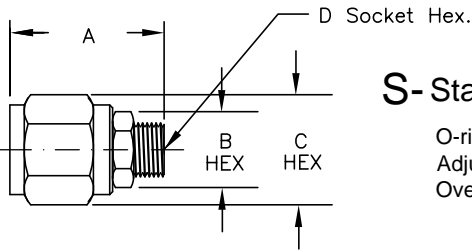


* CONSULT FACTORY FOR HOUSINGS WITH NPTF PIPE THREADS

CODE	ALUMINUM HOUSING	CODE	STEEL HOUSING	PORT 1	PORT 2	PORT 3	PORT 4
06PA*	30216	06PS*	30222	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF	3/4"-14 NPTF
08PA*	30217	08PS*	30223	1"-11.5 NPTF	1"-11.5 NPTF	1"-11.5 NPTF	1"-11.5 NPTF
06BA	30218	06BS	30224	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP	G 3/4"-14 BSPP
08BA	30219	08BS	30225	G 1"-11 BSPP	G 1"-11 BSPP	G 1"-11 BSPP	G 1"-11 BSPP
12TA	30220	12TS	30226	SAE - 12	SAE - 12	SAE - 12	SAE - 12
16TA	30221	16TS	30227	SAE - 16	SAE - 16	SAE - 16	SAE - 16

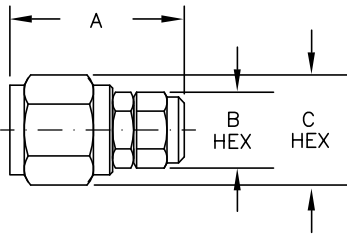


ADJUSTMENT CONTROL OPTIONS



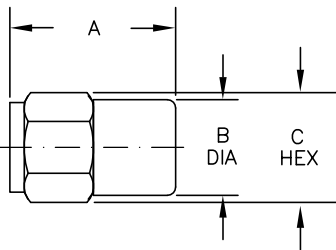
S- Standard Screw Adjustment

O-ring and back-up washer are standard. (No leak)
 Adjusting screw positively retained. (Will not back out)
 Overset pressure protection. (Spring will not go solid)



C- Capped Screw Adjustment

Add cap nut (See Chart) on to "S" adjustment. Protects the adjusting screw from dirt or damage.



T- Tamperproof Adjustment

Press-fit steel cover (See Chart) on to "S" adjustment. Specify pressure setting on order. Model number with pressure setting will be stamped on hex.

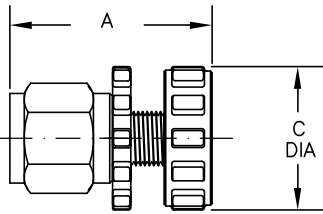
CAP NUT PART NUMBER	
8 SERIES	20858
10 SERIES	20085
12 SERIES (PILOT OPERATED)	20085
12 SERIES (DIRECT ACTING)	20503
16 SERIES	20982

STEEL COVER PART NUMBER	
8 SERIES	20859
10 SERIES	20086
12 SERIES (PILOT OPERATED)	20593
12 SERIES (DIRECT ACTING)	20593
16 SERIES	20981

VALVE SIZE	OPTION LETTER	A		B		C		D	
		INCHES	METRIC	INCHES	METRIC	INCHES	METRIC	INCHES	METRIC
8 SERIES	S	1.62	41.1	0.79	20.1	1.15	29.2	0.31	7.9
	C	1.83	46.5	0.79	20.1	1.15	29.2	---	---
	T	1.74	44.2	1.00	25.4	1.15	29.2	---	---
10 SERIES	S	1.75	44.5	0.75	19.1	1.06	26.9	0.31	7.9
	C	1.98	50.3	0.75	19.1	1.06	26.9	---	---
	T	1.88	47.8	1.06	26.9	1.06	26.9	---	---
12 SERIES (PILOT OPERATED)	S	1.81	46.0	0.75	19.1	1.31	33.3	0.31	7.9
	C	2.03	51.6	0.75	19.1	1.31	33.3	---	---
	T	1.95	49.5	1.31	33.3	1.31	33.3	---	---
12 SERIES (DIRECT ACTING)	S	1.94	49.3	0.88	22.2	1.31	33.3	0.31	7.9
	C	2.20	55.9	0.88	22.2	1.31	33.3	---	---
	T	1.31	33.3	1.31	33.3	1.31	33.3	---	---
16 SERIES	S	2.40	61.0	1.13	28.7	1.50	38.1	0.31	7.9
	C	2.70	68.6	1.13	28.7	1.50	38.1	---	---
	T	2.50	63.5	1.50	38.1	1.50	38.1	---	---



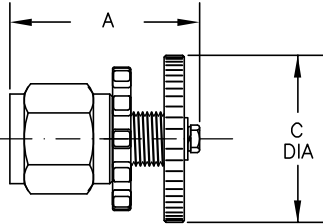
ADJUSTMENT CONTROL OPTIONS



K- Plastic Handknob & Plastic Locknob

Remove jam nut and add handknob kit (See Chart) on to standard "S" adjustment. Patented locking device (Pat. 5,546,980) will not allow the knob to slip and turn on the adj. screw.

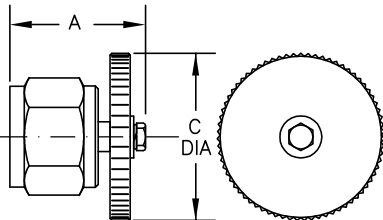
PLASTIC HANDKNOB KIT PART NUMBER	
8 SERIES	60192
10 SERIES	60081
12 SERIES (PILOT OPERATED)	60081



M- Metal Handknob & Plastic Locknob

Remove jam nut and add handknob kit (See Chart) on to standard "S" adjustment. Patented locking device (Pat. 5,546,980) will not allow the knob to slip and turn on the adj. screw.

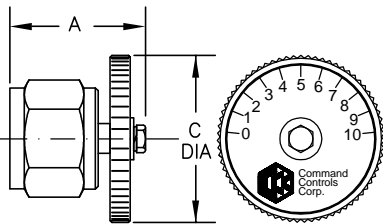
METAL HANDKNOB KIT PART NUMBER	
8 SERIES	60203
10 SERIES	60202
12 SERIES (PILOT OPERATED)	60202



H- Metal Handknob Without Locknob

Square broached hole in knob fits over square on adjusting screw, preventing the knob from slipping or turning.

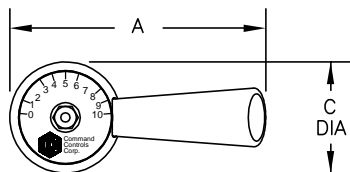
METAL HANDKNOB KIT PART NUMBER	
8 SERIES	60207
10 SERIES	60207
12 SERIES	---



G- Graduated Metal Handknob Without Locknob

Square broached hole in knob fits over square on adjusting screw, preventing the knob from slipping or turning.

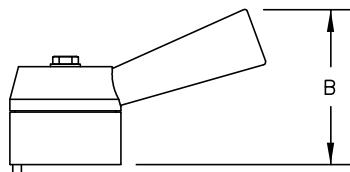
GRADUATED METAL HANDKNOB KIT PART NUMBER	
8 SERIES	---
10 SERIES	60206
12 SERIES	---



L- Manual Rotary Lever with Friction Lock

Square broached hole in knob fits over square on adjusting screw, preventing the knob from slipping or turning.

ROTARY LEVER KIT PART NUMBER	
8 SERIES	---
10 SERIES	60209
12 SERIES	---



D- Manual Rotary Lever with Detents

Square broached hole in knob fits over square on adjusting screw, preventing the knob from slipping or turning. Detents are evenly spaced to provide accurate flow control.

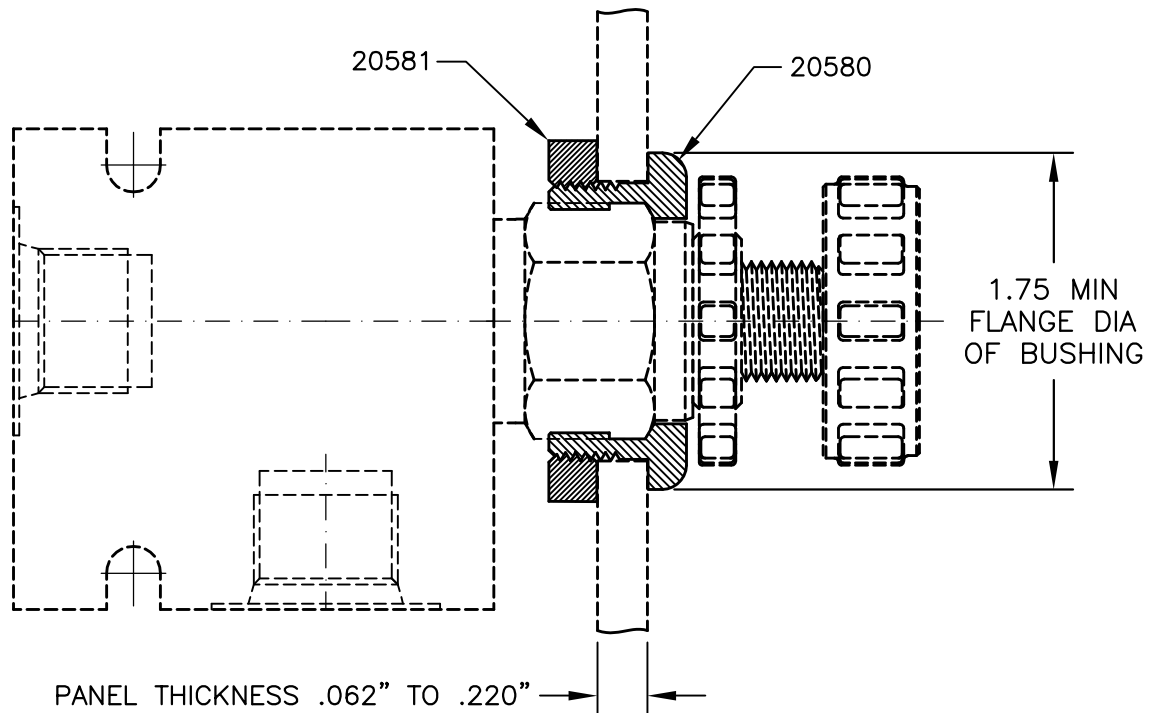
ROTARY LEVER KIT WITH DETENTS PART NUMBER	
8 SERIES	---
10 SERIES	60208
12 SERIES	---

Locating pin included; consult factory for details

VALVE SIZE	VALVE MODEL	OPTION LETTER	INCHES A		INCHES B		INCHES C		INCHES D	
			INCHES	METRIC	INCHES	METRIC	INCHES	METRIC	INCHES	METRIC
8 SERIES		K	2.12	53.8	---	---	1.50	38.1	---	---
		M	2.01	51.1	---	---	1.75	44.5	---	---
	NFCV08 ONLY	H	1.89	48.0	---	---	1.75	44.5	---	---
10 SERIES		K	2.25	57.2	---	---	1.50	38.1	---	---
		M	2.14	54.4	---	---	1.75	44.5	---	---
	MRFC10 ONLY	G	1.58	40.1	---	---	1.75	44.5	---	---
	NFCV10 ONLY	H	1.99	50.5	---	---	1.75	44.5	---	---
	MRFC10 ONLY	D & L	4.32	109.7	2.62	66.6	1.88	47.6	---	---
12 SERIES (PILOT OPERATED)		K	2.31	58.7	---	---	1.50	38.1	---	---
		M	2.20	55.9	---	---	1.75	44.5	---	---



PANEL MOUNT KIT #60134



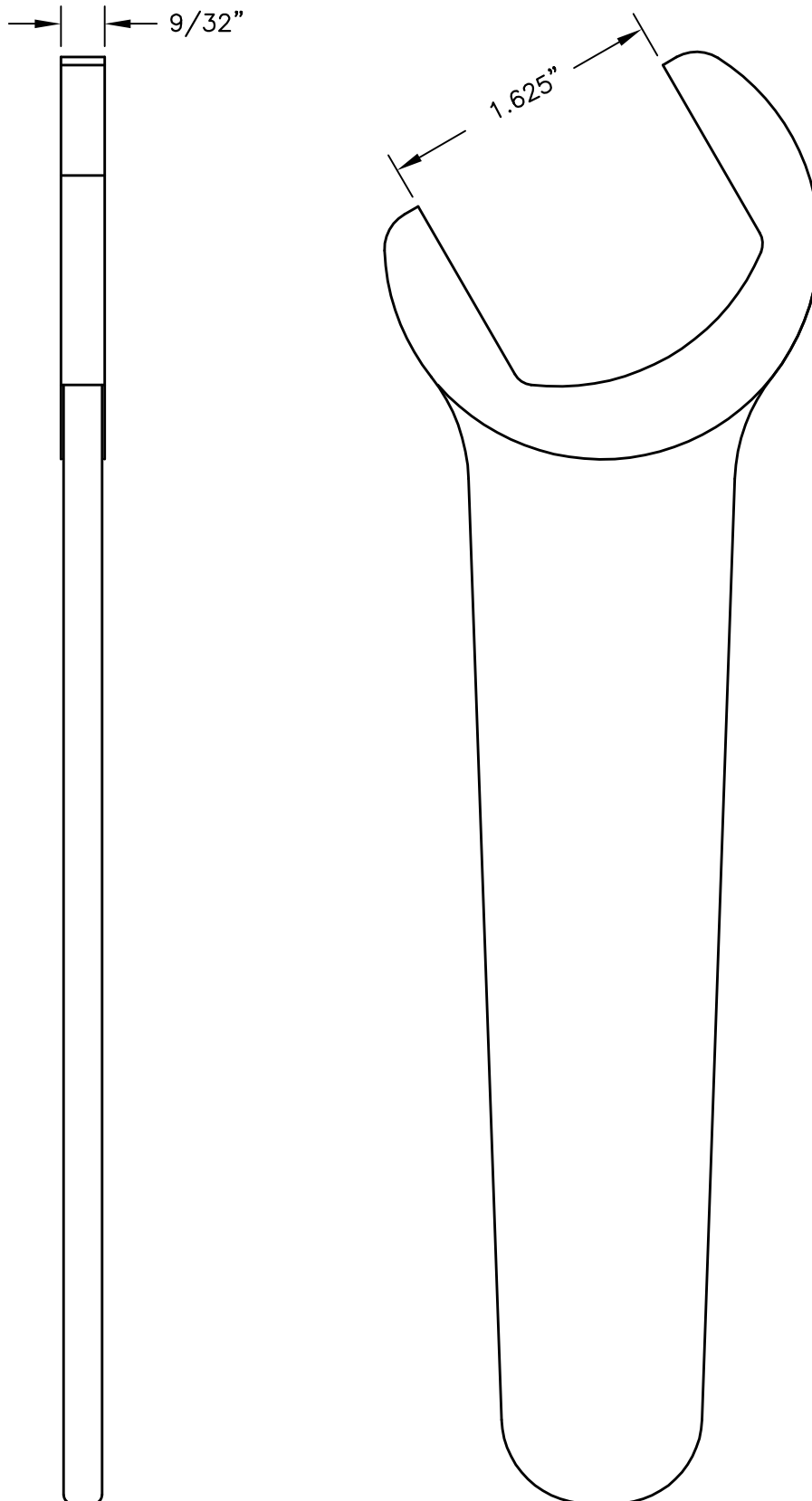
THIS PANEL MOUNT KIT WILL FIT ALL OF COMMAND CONTROLS CORP. SERIES # 10 VALVES.

INSTALLATION INSTRUCTIONS:

1. MOUNTING HOLE DIAMETER = 1.456" MIN
2. INSERT PANEL MOUNT BUSHING #20580 INTO THE HOLE FROM THE FRONT OF THE PANEL.
3. SCREW ON PANEL MOUNT JAM NUT #20581 ON THE BUSHING FROM THE BACK OF THE PANEL BUT DO NOT TIGHTEN.
4. REMOVE THE KNOB(S) FROM THE VALVE IF KNOB(S) ARE PROVIDED.
5. INSERT THE VALVE INTO THE PANEL MOUNT KIT FROM THE BACK OF THE PANEL. MAKE SURE THE CORNERS OF THE VALVE HEX. FIT INTO THE THE SLOTS IN THE PANEL MOUNT BUSHING.
6. ORIENT THE VALVE TO A DESIRED POSITION THEN TIGHTEN THE JAM NUT WRENCH AT-132 UNTIL THE VALVE AND THE PANEL MOUNTING KIT ARE SECURELY FASTENED.

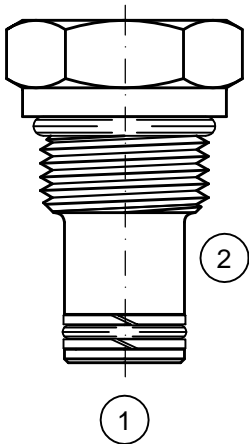


PANEL MOUNT KIT WRENCH #AT-132

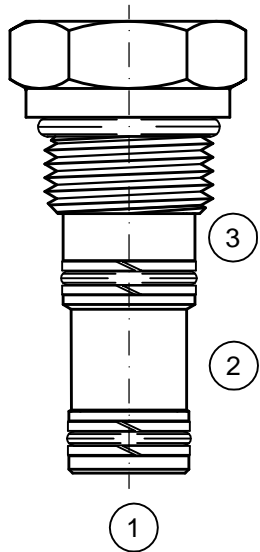




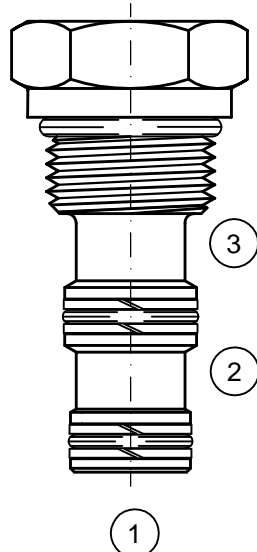
2-Way Cavity
Blocks Ports 1 & 2
CPLG-XX-X-20-000



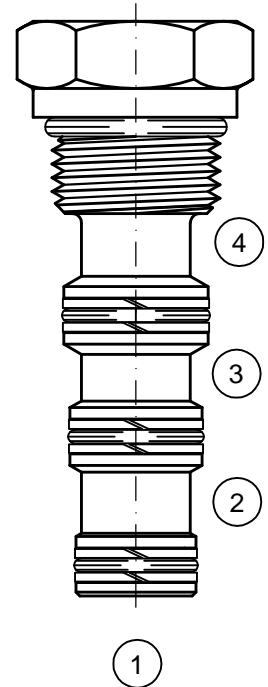
2-1/2-Way Cavity
Blocks Ports 1, 2 & 3
CPLG-XX-X-25-XXX



3-Way Cavity
Blocks Ports 1, 2 & 3
CPLG-XX-X-30-XXX



4-Way Cavity
Blocks Ports 1, 2, 3 & 4
CPLG-XX-X-40-XXX



CPLG-XX-X-XX-XXX

BASIC

SIZE

- 04 = 7/16"-20 UNF
- 08 = 3/4"-16 UNF
- 10 = 7/8"-14 UNF
- 12 = 1 1/16"-12 UNF
- 16 = 1 5/16"-12 UNF

SEALS

- N = BUNA "N"
- V = VITON

TYPE

- 20 = 2-WAY
- 25 = 2½-WAY
- 30 = 3-WAY
- 40 = 4-WAY

X = BLOCKED; O = OPEN

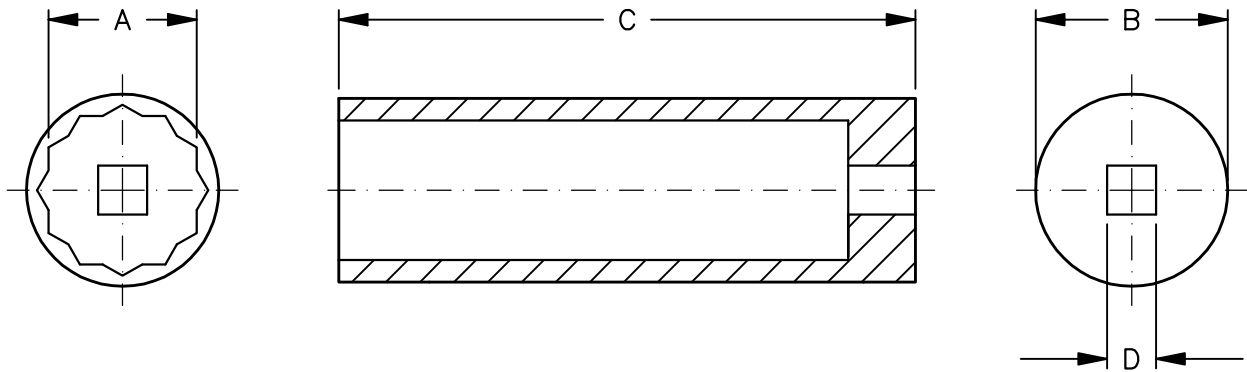
	2-WAY		2½ & 3-WAY			4-WAY			
	1	2	1	2	3	1	2	3	4
000	X	X	X	X	X	X	X	X	X
012			O	O	X	O	O	X	X
013			O	X	O	O	X	O	X
014						O	X	X	O
023			X	O	O	X	O	O	X
024						X	O	X	O
034						X	X	O	O
123						O	O	O	X
124						O	O	X	O
134						O	X	O	O
234						X	O	O	O

CONSULT FACTORY FOR PRICING AND AVAILABILITY

0-100.0



DEEP SOCKET WRENCH



PART NUMBER	VALVE SIZE	"A" HEX	"B" O.D.	"C" LENGTH	"D" DRIVE
AT-215	08 SERIES	1.00"	1.31"	5.50"	.50"
AT-118	10 SERIES	1.06"	1.38"	5.50"	.50"
AT-119	12 SERIES	1.31"	1.75"	5.50"	.50"
AT-120	16 SERIES	1.50"	2.00"	6.00"	.50"