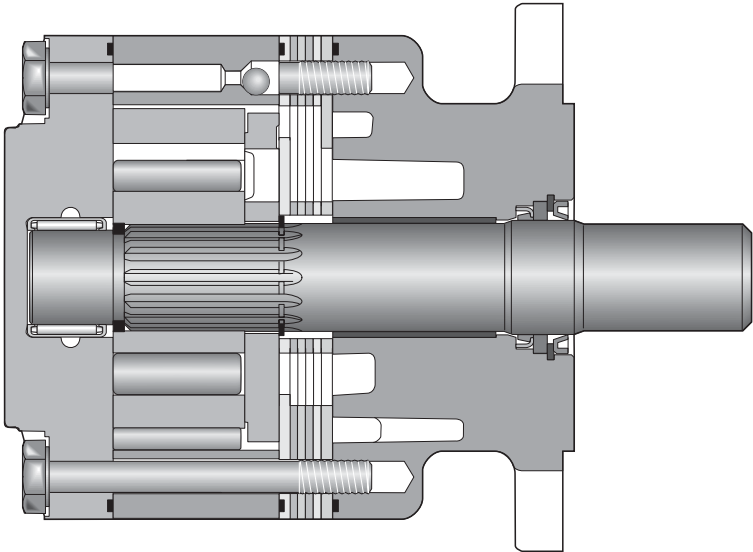
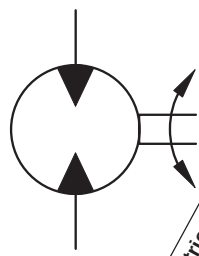


7 Displacements	(3.6 – 16.4 in ³ /rev)	
7 Schluckvolumen	59...269 cm ³ /rev	
7 Cylindrée		
7 Desplazamientos		
	Cont	Int
Maximum Pressure	(to 2500 psi)	(to 3000 psi)
Eingangsdruk	...172.4 bar	...206.8 bar
Pression entrée		
Presion Maxima		
Maximum Oil Flow	(to 30 gpm)	
Schluckstrom	...113.6 lpm	
Débit d'huile		
Caudal Maximo de Aceite		
Maximum Speed	858 rpm	
Drehzahl		
Vitesse de rotation		
Velocidad Maxima		
	Cont	Int
Maximum Torque	(to 4164 lb in)	(to 5215 lb in)
Max Drehmoment	...470 Nm	...589 Nm
Couple		
Torque Maximo		
Maximum Side Load at Key	(to 1450 lb)	
Seitenlast	... 6450 N	
Charges latérales		
Carga Maxima Lateral		

When the Ultimate in Efficiency and Reliability is a Must

This high performance motor contains a power element that is pressure loaded against internal leakage for high volumetric efficiency. It is wear compensated, so that its volumetric efficiency will not degrade with use. It can provide up to 5215 lb-in of torque through a one-piece solid fixed axis shaft. This shaft design allows for full stationary spline contact between shaft and rotor, minimizing spline contact stresses. It also allows the shaft to be extended through the rear cover for mounting parking brakes, auxiliary drive functions or encoders for speed readout or closed loop control. Low internal pressure drop means high mechanical efficiency and higher flow capability. This rugged motor is the most compact on the market.





Motor Series 110A	Geom. displacement Geom. Schluckvolumen Cylindrée Cilindrata	Max. speed @ Max. intermittent flow Max. Drehzahl / Intermittierender Betrieb: Vitesse de rotation maxi Velocidad maxima a caudal intermitente	Max. oil flow Max. Schluckstrom Débit d'huile maxi Portata max	Max. differential pressure Max. Druckgefälle Chute de pression maxi Presion diferencial maxima	Max. supply pressure Max. Eingangsdruck Pression maxi entrée Presion maxima de alimentacion	Max. torque Max. Drehmoment Couple maxi Torque Maximo	Max. performance Max. Leistungabgabe Puissance de sortie maxi Maximo rendimiento
	cm³/rev in³/rev	rev/min	cont / int* l/min g/min	cont / int* bar psi	max bar psi	cont / int* Nm lb-in	max KW HP
110A 036	59 3.6	858	45.4 53 12 14	170 210 2500 3000	225 3250	127 149 1125 1319	8.5 11.4
110A 054	89 5.4	740	60.6 68.1 16 18	170 210 2500 3000	225 3250	182 213 1608 1884	11.2 15.1
110A 071	116 7.1	684	75.7 83.3 20 22	170 210 2500 3000	225 3250	256 308 2267 2725	14.2 19.1
110A 088	144 8.8	622	75.7 94.6 20 25	170 210 2500 3000	225 3250	324 389 2874 3449	14.6 19.6
110A 106	174 10.6	519	75.7 94.5 20 25	155 210 2250 3000	225 3250	352 465 3115 4121	13.1 17.6
110A 129	211 12.9	437	75.7 94.6 20 25	155 190 2250 2750	225 3250	412 503 3651 4453	12.9 17.3
110A 164	269 16.4	415	75.7 114 20 30	140 170 2000 2500	225 3250	470 589 4164 5215	12.1 16.2

Performance data based on tests using 15W40 oil with a viscosity of 55 cSt (215 SUS) at 54° C (130° F) Performance data is typical. Actual data may vary slightly from one production motor to another.

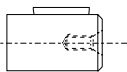
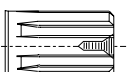
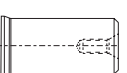
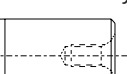
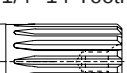
Les donnees sur les performances sont basees sur des tests utilisant de l'huile 15W40 d'une viscosite de 55 cSt (215 SUS) a 54°C (130°F). Ces donnees correspondent a des situations typiques. Les donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Leistungsdaten sind gemessen mit SAE 15W40 bei einer Viskositäet von 43,1 Cst beo 54°C. Geringfügige Abweichungen von den Katalogerten sond moeglich.

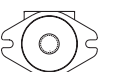
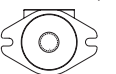
Datos tecnicos obtenidos con aceite 15W40 de 55 cSt (215 SUS) de viscosidad a 54°C (130°F). Los datos proporcionados son valores tipcos. Los valores exactos reales podrian tener una pequena variacion entre distintos motores.

★Intermittent operation rating applies to 10% of every minute.
Intermittierende Werte maximal 10% von jeder Betriebsminute.
Fonctionnement interm. 10% max. de chaque minute d'utilisation.
Capacidad de funcionamiento intermitente valida para 10% por cada minuto.

11	X	A	-XXX-	X	X	-X	-X	X	X
Series	Shaft Welle Arbre Ejes	Engineering Design technischer Entwurf Conception technique Diseño de ingeniería	Displacement Schluckvolumen Cylindrée Desplazamiento	Mounting Gehäuse Carter Montaje	Ports Anschluß Plan de raccordement Lumbreras	Thru-Shaft durchgehende Welle arbre traversant Eje pasante	Shaft Material Wellenmaterial Matériel d'arbre Material del eje	Cross-Over Relief Valve Bremslüftventil Soupape de sûreté transversale Válvula de alivio transversal	Paint

Code	
0	1" Keyed 
1	1" 6B Spline 
2	25mm Keyed 
3	1-1/4" Keyed 
5	1-1/4"-14 Tooth Spline 
6	7/8"-13 Tooth Spline 

Code	cm³/U cm³/tr cm³/giro cu in³/rev
036	59 / 3.6
054	89 / 5.4
071	116 / 7.1
088	144 / 8.8
106	174 / 10.6
129	211 / 12.9
164	269 / 16.4

Code	
AM	SAE A 2-Bolt, Manifold 
AS	SAE A 2-Bolt, 7/8"-14 SAE 
AT	SAE A 2-Bolt, 1/2"-BSPP 
BM	SAE B 2-Bolt, Manifold 
BS	SAE B 2-Bolt, 7/8"-14 SAE 

Code	
0	No Thru Shaft
1	Thru Shaft
E	Endcoder

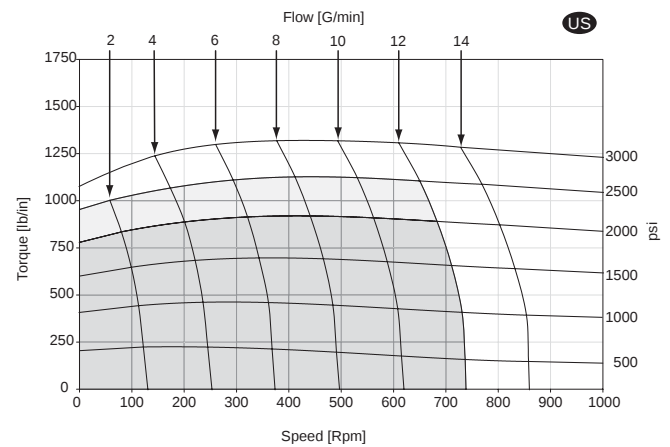
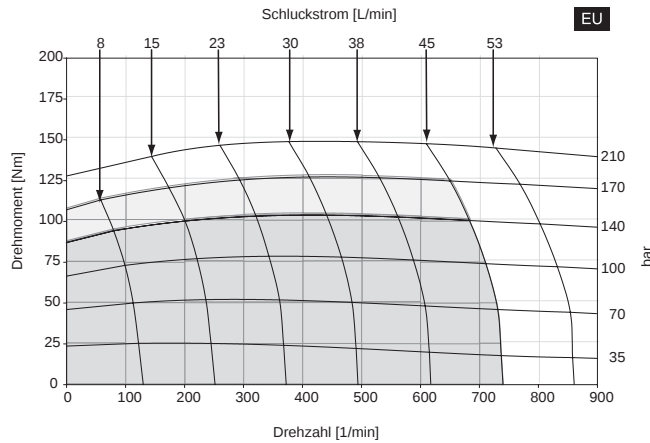
Code	
Omit	If Not Required
S	Stainless Steel

Code	
Omit	If Not Required
R1	Cross-Over Relief Valve

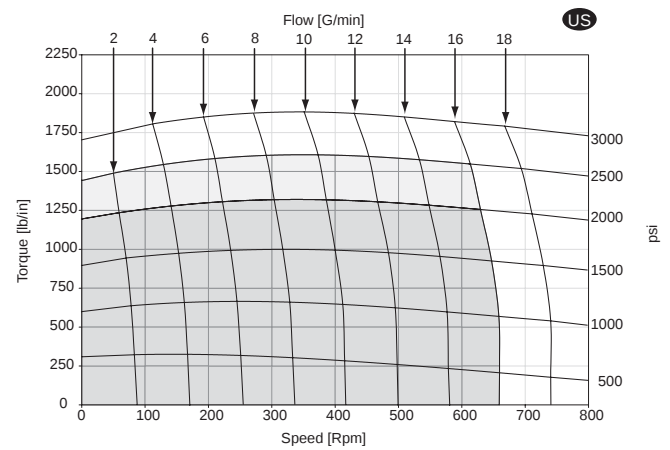
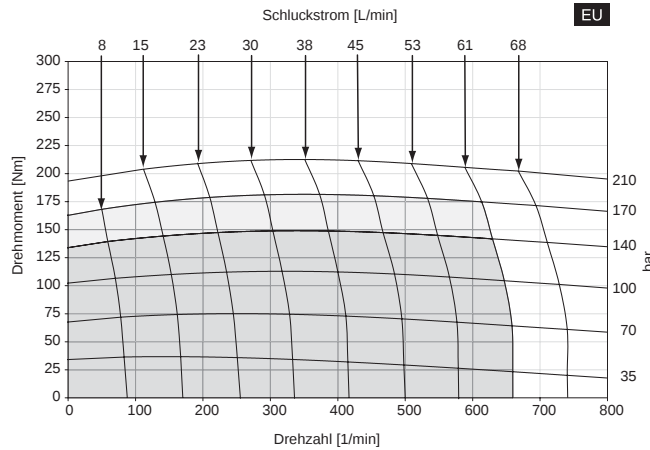
Code	
Omit	No Paint
F	Black Paint Schwarz lackiert

Consult factory for other available options, configurations ordering codes and lead times.

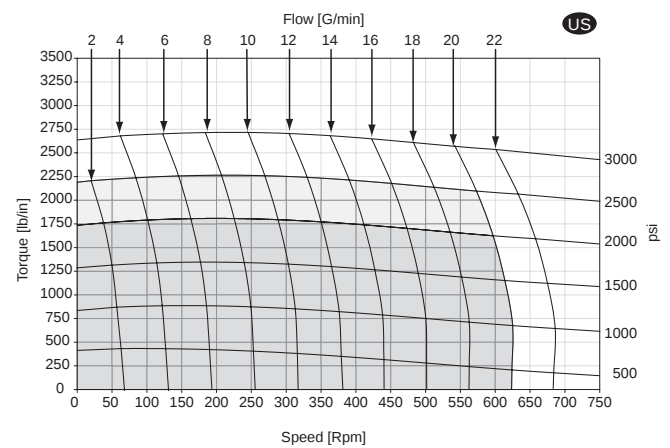
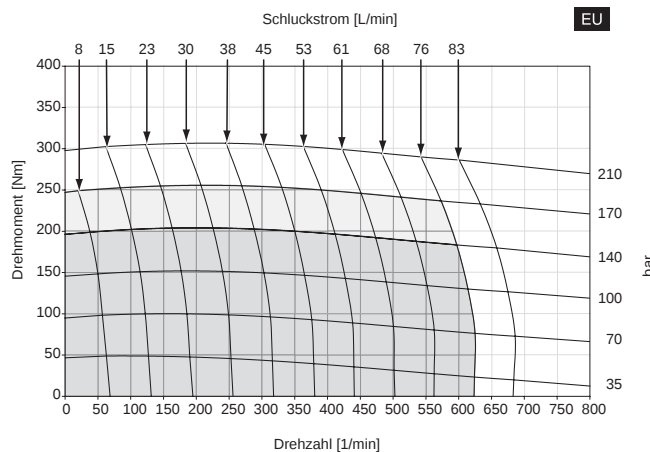
110A 036



110A 054



110A 071



☐ Cont.
 ☐ Cont. with no side load
 Int. with rated side load
 ☐ Int.

Intermittent operation rating applies to 10% of every minute.

Fonctionnement interm. 10% max. de chaque minute d'utilisation.

Performance data based on tests using 15W40 oil with a viscosity of 55 cSt (215 SUS) at 54° C (130° F). Performance data is typical. Actual data may vary slightly from one production motor to another.

Les données sur les performances sont basées sur des tests utilisant de l'huile 15W40 d'une viscosité de 55 cSt (215 SUS) à 54°C (130°F). Ces données correspondent à des situations typiques. Les données réelles peuvent varier légèrement d'un moteur de production à l'autre.

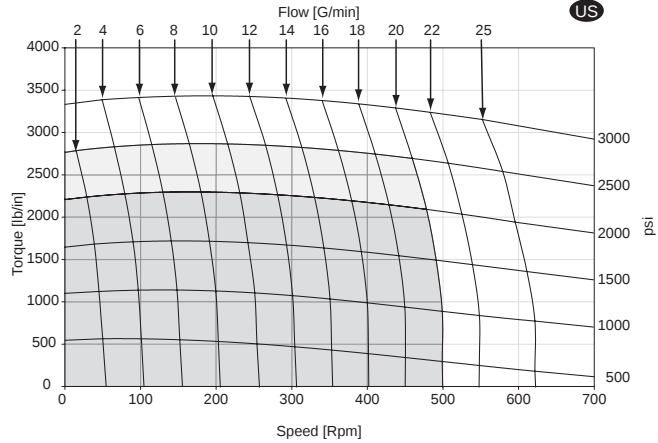
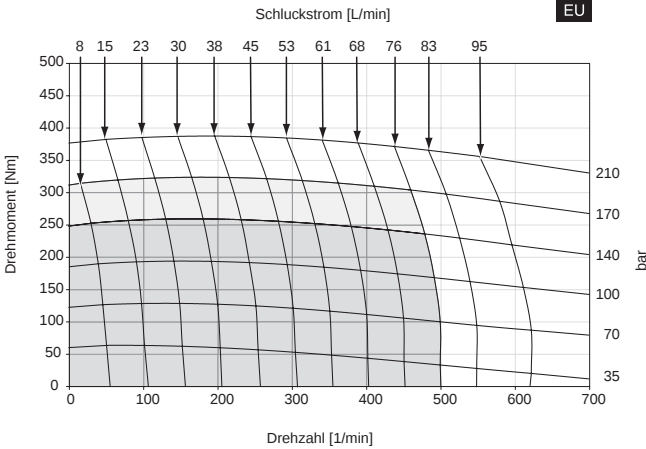
Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 10% por cada minuto.

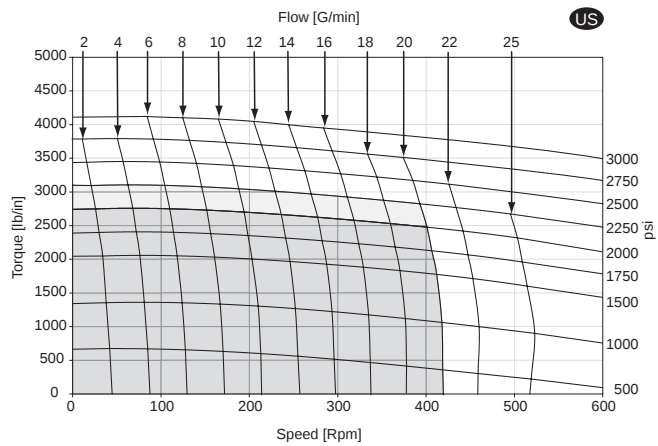
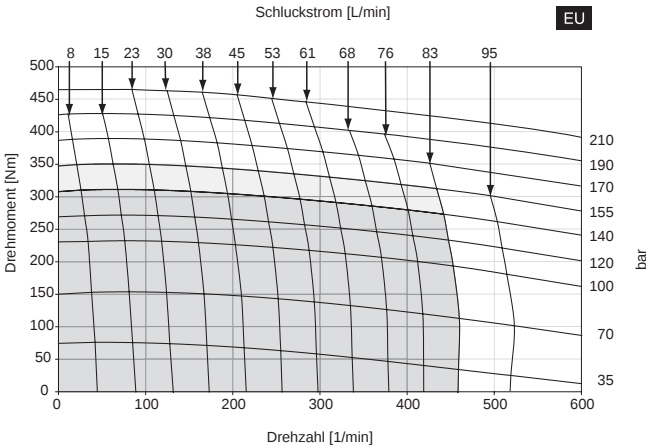
Leistungsdaten sind gemessen mit SAE 15W40 bei einer Viskosität von 43,1 Cst bei 54°C. Geringfügige Abweichungen von den Katalogerten sind möglich.

Datos tecnicos obtenidos con aceite 15W40 de 55 cSt (215 SUS) de viscosidad a 54°C (130°F). Los datos proporcionados son valores típicos. Los valores exactos reales podrían tener una pequeña variación entre distintos motores.

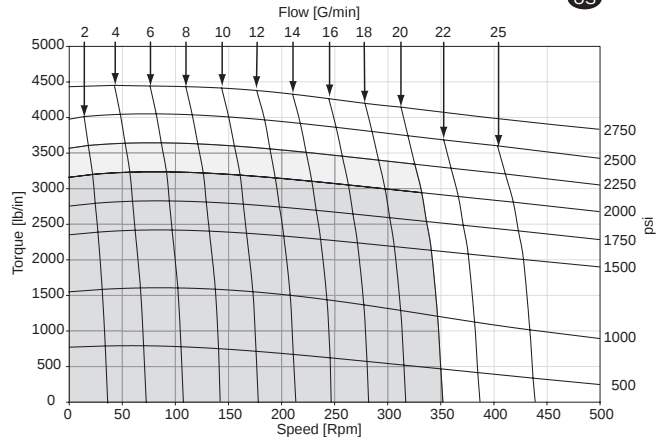
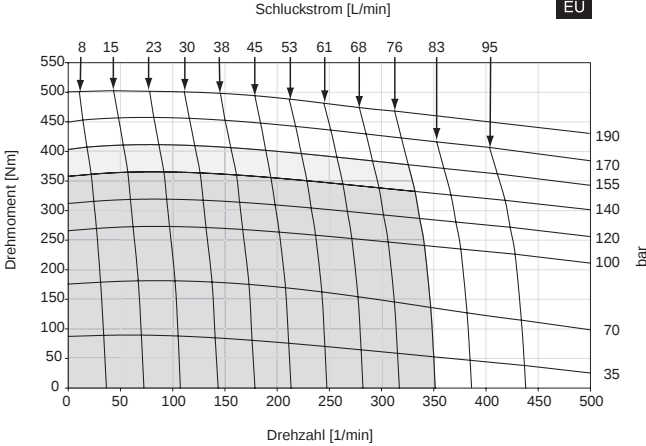
110A 088



110A 106



110A 129



Cont. Cont. with no side load Int. with rated side load Int.

Intermittent operation rating applies to 10% of every minute.

Fonctionnement interm. 10% max. de chaque minute d'utilisation.

Performance data based on tests using 15W40 oil with a viscosity of 55 cSt (215 SUS) at 54° C (130° F). Performance data is typical. Actual data may vary slightly from one production motor to another.

Les données sur les performances sont basées sur des tests utilisant de l'huile 15W40 d'une viscosité de 55 cSt (215 SUS) à 54°C (130°F). Ces données correspondent à des situations typiques. Les données réelles peuvent varier légèrement d'un moteur de production à l'autre.

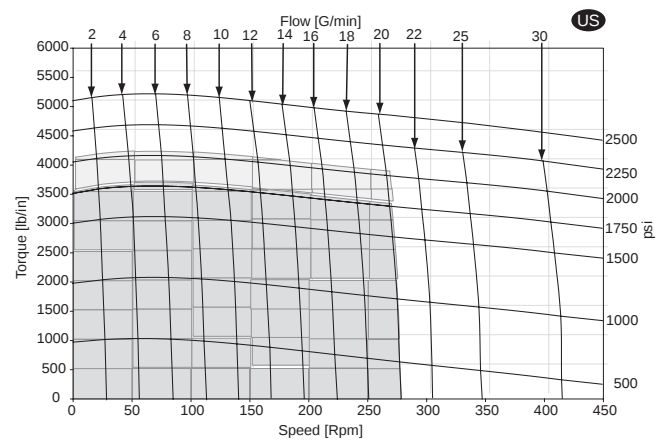
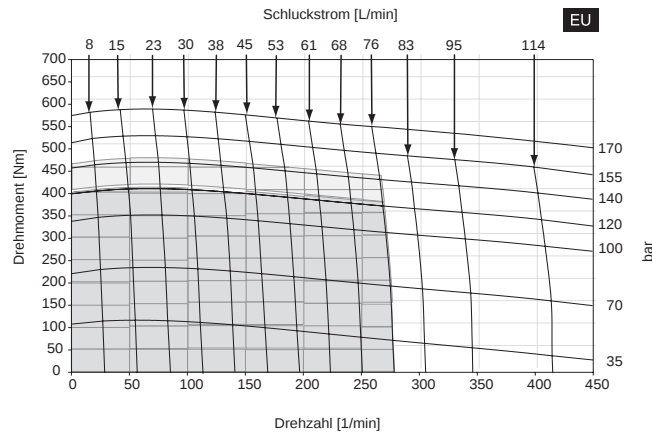
Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 10% por cada minuto.

Leistungsdaten sind gemessen mit SAE 15W40 bei einer Viskosität von 43,1 Cst bei 54°C. Geringfügige Abweichungen von den Katalogerten sind möglich.

Datos tecnicos obtenidos con aceite 15W40 de 55 cSt (215 SUS) de viscosidad a 54°C (130°F). Los datos proporcionados son valores típicos. Los valores exactos reales podrian tener una pequena variacion entre distintos motores.

110A 164



☐ Cont.
 ☐ Cont. with no side load
 Int. with rated side load
 ☐ Int.

Intermittent operation rating applies to 10% of every minute.

Fonctionnement interm. 10% max. de chaque minute d'utilisation.

Performance data based on tests using 15W40 oil with a viscosity of 55 cSt (215 SUS) at 54° C (130° F). Performance data is typical. Actual data may vary slightly from one production motor to another.

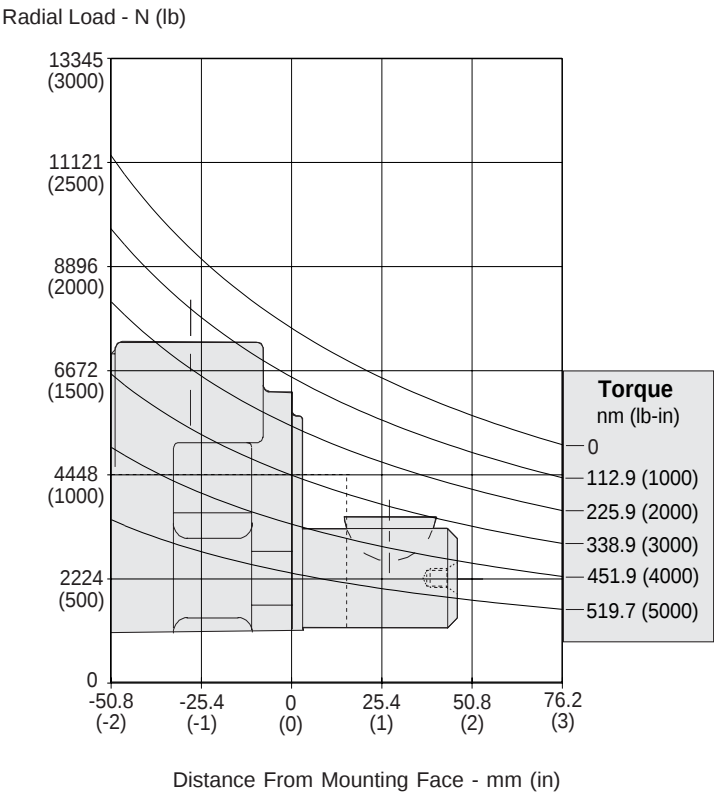
Les données sur les performances sont basées sur des tests utilisant de l'huile 15W40 d'une viscosité de 55 cSt (215 SUS) à 54°C (130°F). Ces données correspondent à des situations typiques. Les données réelles peuvent varier légèrement d'un moteur de production à l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente válida para 10% por cada minuto.

Leistungsdaten sind gemessen mit SAE 15W40 bei einer Viskosität von 43,1 Cst bei 54°C. Geringfügige Abweichungen von den Katalogerten sind möglich.

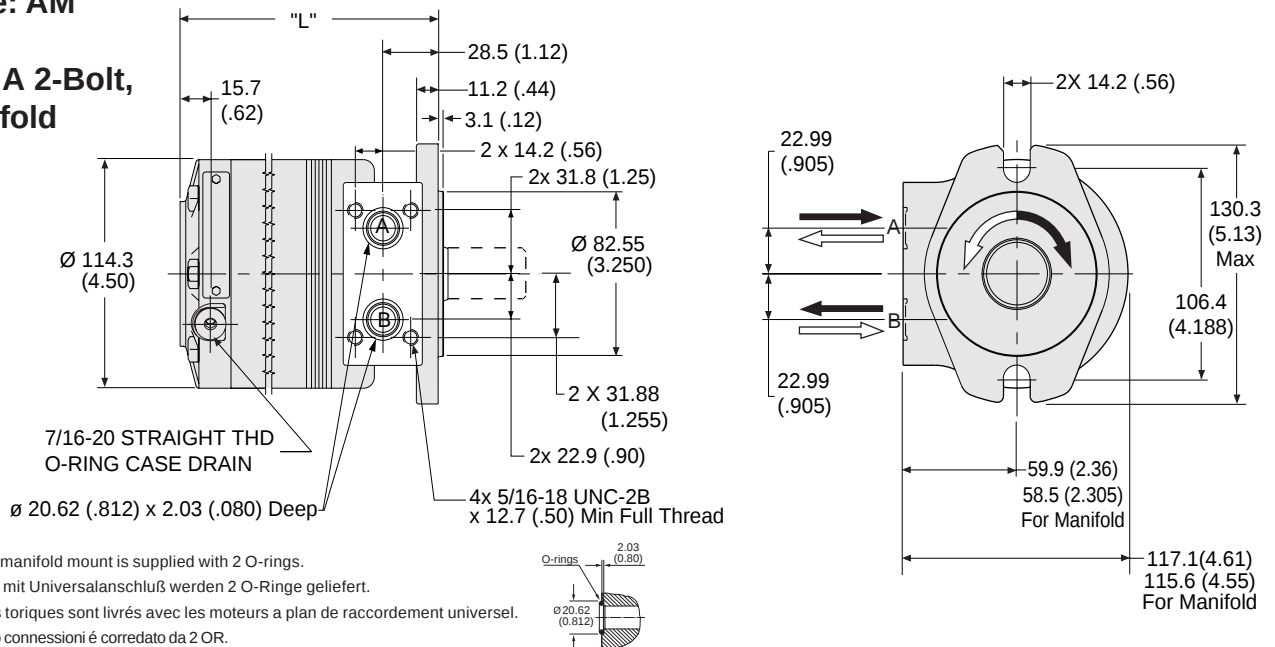
Datos técnicos obtenidos con aceite 15W40 de 55 cSt (215 SUS) de viscosidad a 54°C (130°F). Los datos proporcionados son valores típicos. Los valores exactos reales podrían tener una pequeña variación entre distintos motores.



The allowable side load curve is based on L_{10} bushing life of 3×10^6 revolutions @ 100 RPM.
Die zulässige radiale Wellenbelastung bezieht sich auf die Lager-Lebensdauer 3×10^6 Umdrehungen.
L'effort radial admissible sur l'arbre depend a une duree de vie 3×10^6 de rotation.
La curva de carga lateral admisible se basa en vida util de cojinete de 3×10 revoluciones.

Code: AM

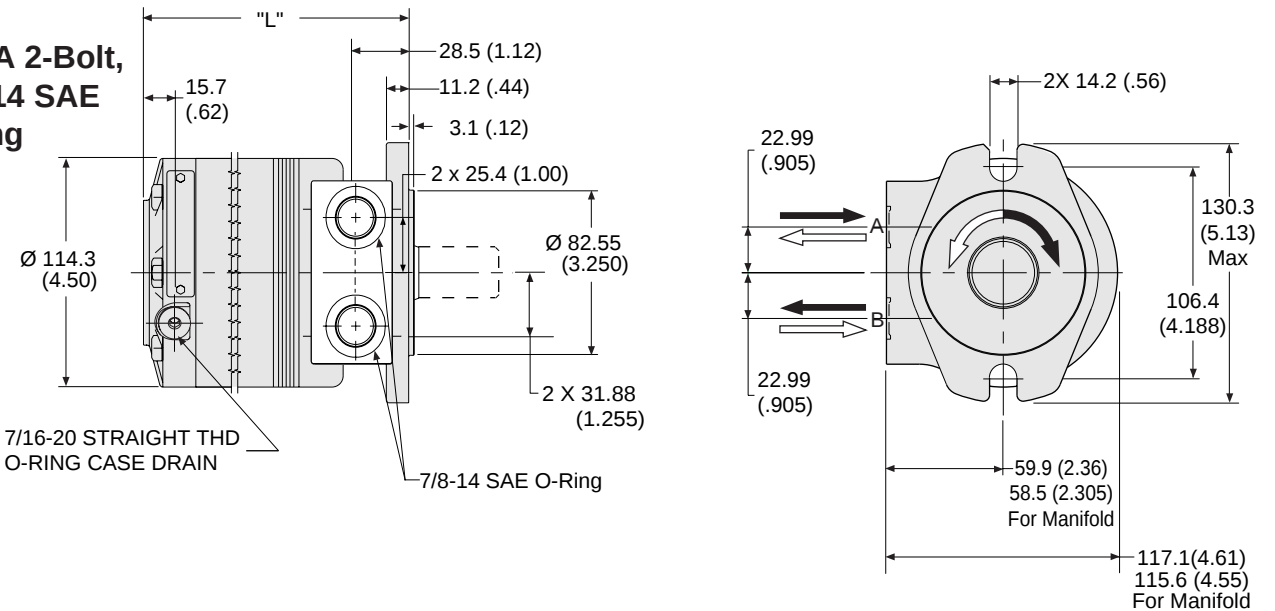
SAE A 2-Bolt,
Manifold



Code AM		036	054	071	088	106	129	164
Weight/Gewicht	kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4
Poids/Peso	(lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)
Length	"L" mm	112	117	121	127	131	138	147
	"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)

Code: AS

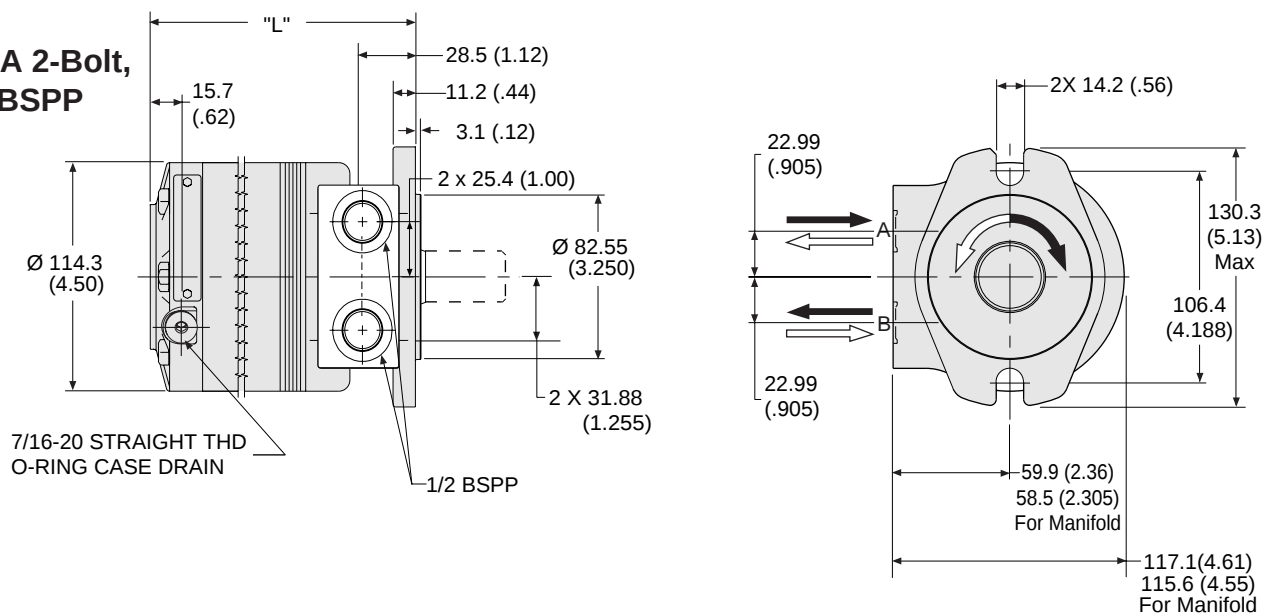
SAE A 2-Bolt,
7/8"-14 SAE
O-Ring



Code AS		036	054	071	088	106	129	164
Weight/Gewicht	kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4
Poids/Peso	(lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)
Length	"L" mm	112	117	121	127	131	138	147
	"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)

Code: AT

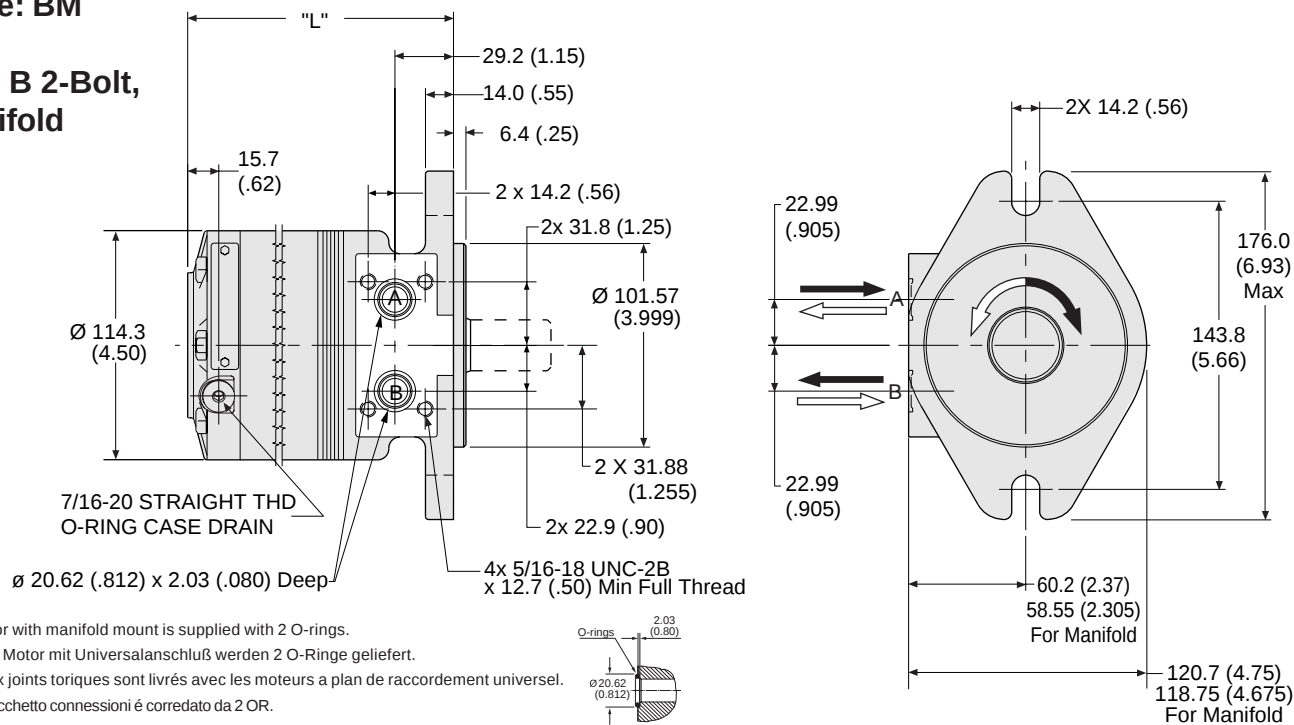
SAE A 2-Bolt,
1/2" BSPP



Code AT	036	054	071	088	106	129	164
Weight/Gewicht kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4
Poids/Peso (lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)
Length "L" mm	112	117	121	127	131	138	147
"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)

Code: BM

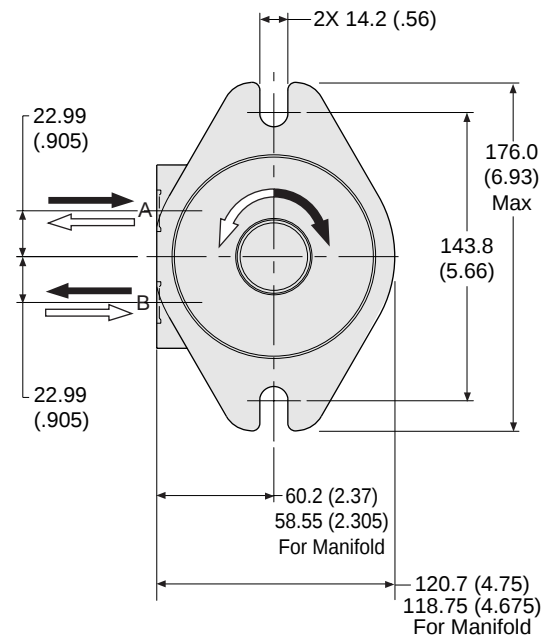
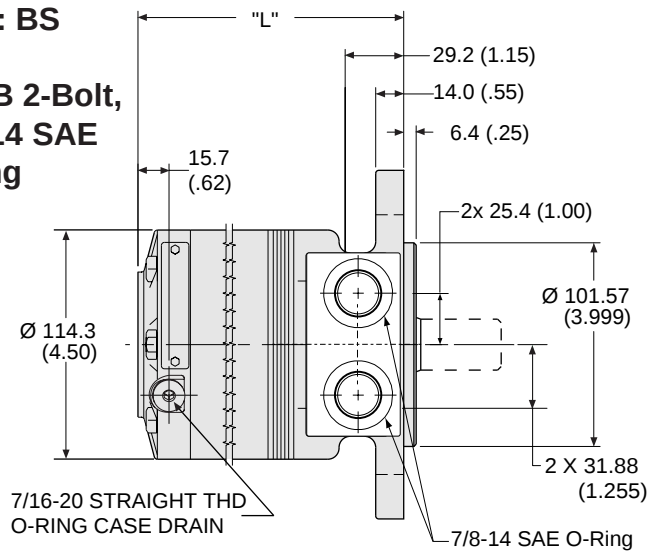
SAE B 2-Bolt,
Manifold



Code BM	036	054	071	088	106	129	164
Weight/Gewicht kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4
Poids/Peso (lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)
Length "L" mm	112	117	121	127	131	138	147
"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)

Code: BS

**SAE B 2-Bolt,
7/8"-14 SAE
O-Ring**

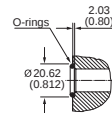


Motor with manifold mount is supplied with 2 O-rings.

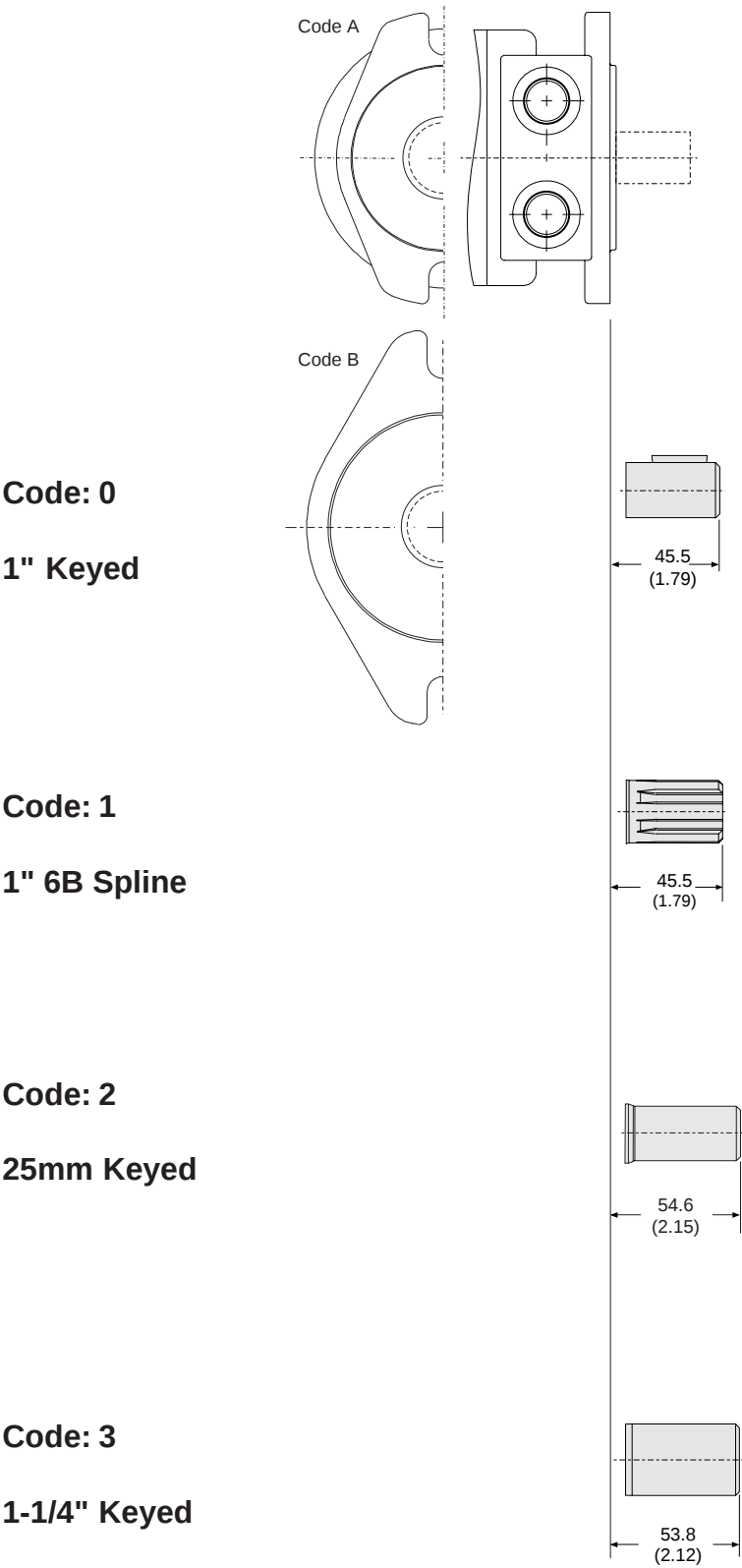
Zum Motor mit Universalanschluß werden 2 O-Ringe geliefert.

Deux joints toriques sont livrés avec les moteurs a plan de raccordement universel.

Il blocchetto connessioni é corredato da 2 OR.

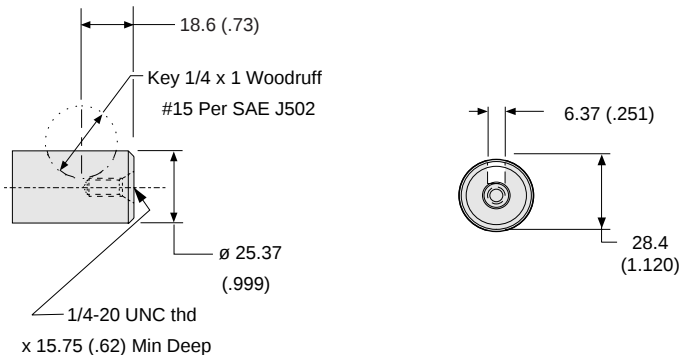


Code BS	036	054	071	088	106	129	164
Weight/Gewicht kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4
Poids/Peso (lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)
Length "L" mm	112	117	121	127	131	138	147
"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)



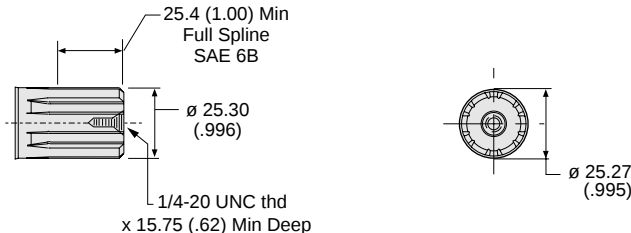
Code: 0

1" Keyed



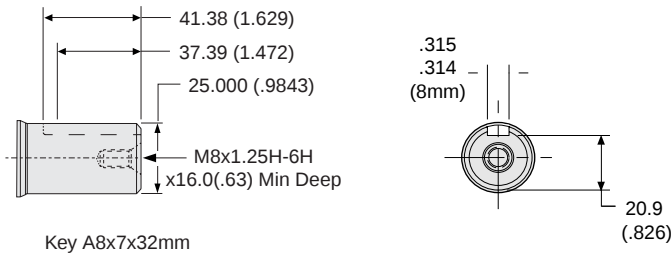
Code: 1

1" 6B Spline



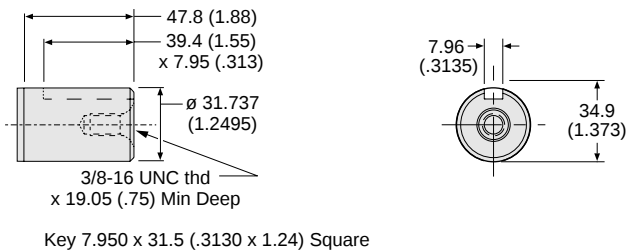
Code: 2

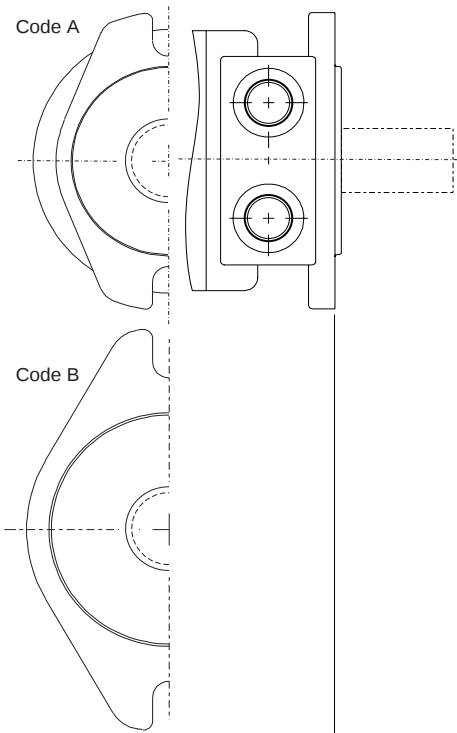
25mm Keyed



Code: 3

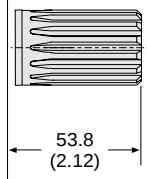
1-1/4" Keyed





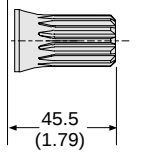
Code: 5

1-1/4"-14 Tooth Spline



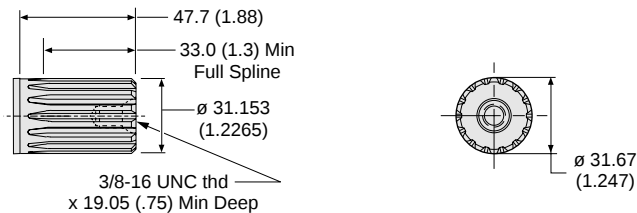
Code: 6

7/8"-13 Tooth Spline



Code: 5

1-1/4"-14 Tooth Spline



Code: 6

7/8"-13 Tooth Spline

