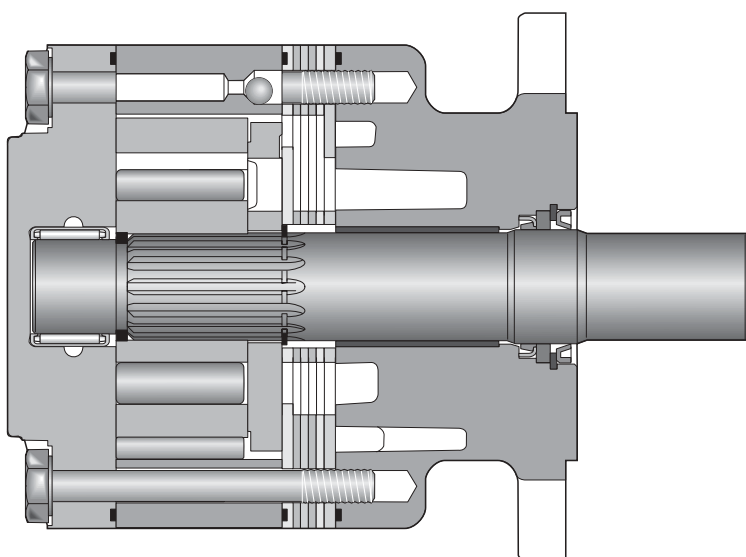
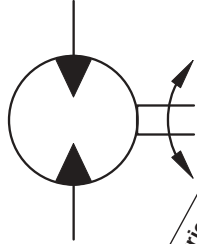


9 Displacements	(3.6 – 24.1 in ³ /rev)	
9 Schluckvolumen	59...395 cm ³ /rev	
9 Cylindrée		
9 Desplazamientos		
	Cont	Int
Maximum Pressure	(to 2500 psi)	(to 3000 psi)
Eingangsdruk	...172.4 bar	...206.8 bar
Pression entrée		
Presion Maxima		
Maximum Oil Flow	(to 30 gpm)	
Schluckstrom	...113.6 lpm	
Débit d'huile		
Caudal Maximo de Aceite		
Maximum Speed	858 rpm	
Drehzahl		
Vitesse de rotation		
Velocidad Maxima		
	Cont	Int
Maximum Torque	(to 5261 lb in)	(to 6765 lb in)
Max Drehmoment	...594 Nm	...764 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 6765 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	cm ³ /rev in ³ /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
110A 189	310 18.9	350	75.7 114 20 30	140 170 2000 2500	225 3250	542 675 4803 5977	7.9 10.6
110A 241	395 24.1	279	15.7 114 20 30	120 155 1750 2250	225 3250	594 764 5261 6765	9.2 12.4

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.

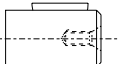
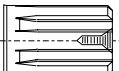
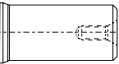
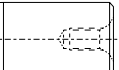
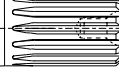
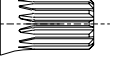
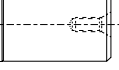
Les données sur les performances sont basées sur des tests utilisant de l'huile 15W40 d'une viscosité de 55 cSt (215 SUS) à 54°C (130°F). Ces données correspondent à des situations typiques. Les données réelles peuvent varier légèrement d'un moteur de production à l'autre.

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

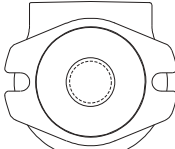
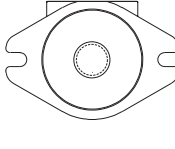
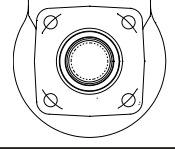
Datos técnicos obtenidos con aceite 15W40 de 55 cSt (215 SUS) de viscosidad a 54°C (130°F). Los datos proporcionados son valores típicos. Los valores exactos reales podrían tener una pequeña variación entre distintos motores.

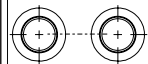
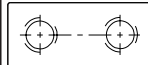
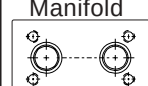
*Intermittent operation rating applies to 10% of every minute.
Intermittierende Werte maximal 10% von jeder Betriebsminute.
Fonctionnement interm. 10% max. de chaque minute d'utilisation.
Capacidad de funcionamiento intermitente valida para 10% por cada minuto.

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		Avail.
0	1" Keyed 	US
1	1" 6B Spline 	US
2	25mm Keyed 	US
3	1-1/4" Keyed 	US
4	1-1/4" Tapered 	US
5	1-1/4"-14 Tooth Spline 	US
6	7/8"-13 Tooth Spline 	US
8	32mm Keyed 	US

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
189	310	18.9
241	395	24.1

Code		Avail.
A	SAE A 2-Bolt 	US
B	SAE B 2-Bolt 	US
F	4 Bolt 	US

Code		Avail.
S	7/8"-14 SAE 	US
P	1/2"-14 NPTF 	US
T	1/2" BSPP 	US
M	Manifold 	US
H	ISO6149 M22.1.5 Consult Factory	US

Code		Avail.
0	No Thru Shaft	US

See Page 290 for Additional Options

Code		Avail.
Omit	For Alloy Steel	US

See Page 290 for Additional Options

Code		Avail.
Omit	If Not Required	US

See Page 290 for Additional Options

Code		Avail.
Omit	No Paint	US
F	Black Paint Schwarz lackiert	US

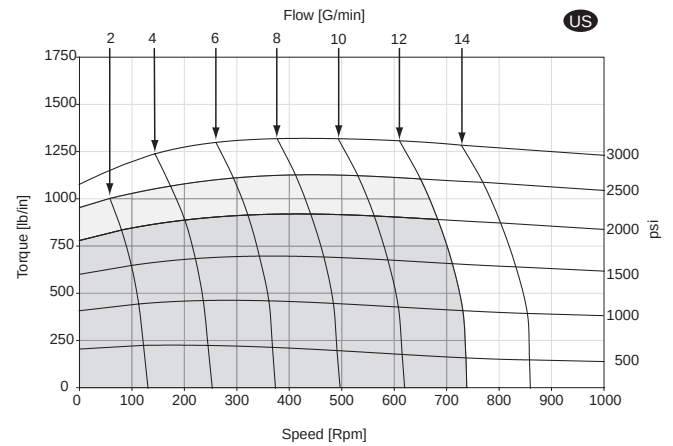
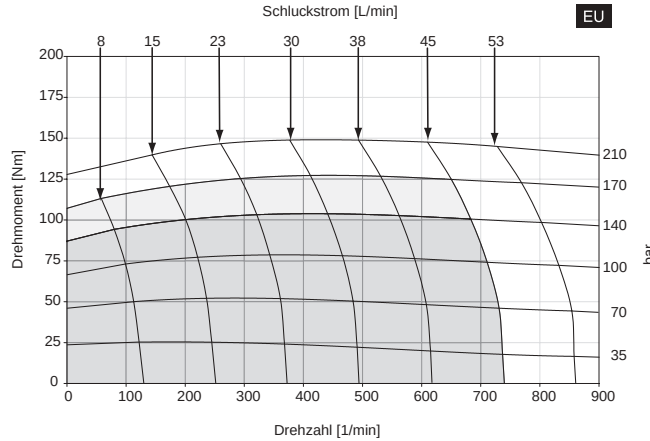
See Page 290 for Additional Options

US US Standard

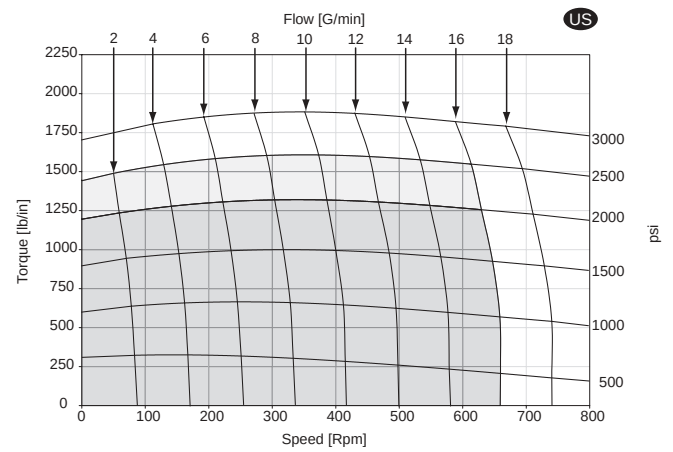
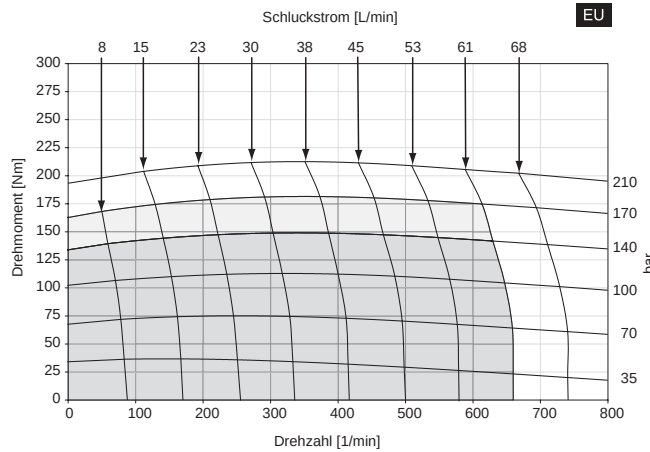
EU Euro Standard

Global 110A.p65.pfm

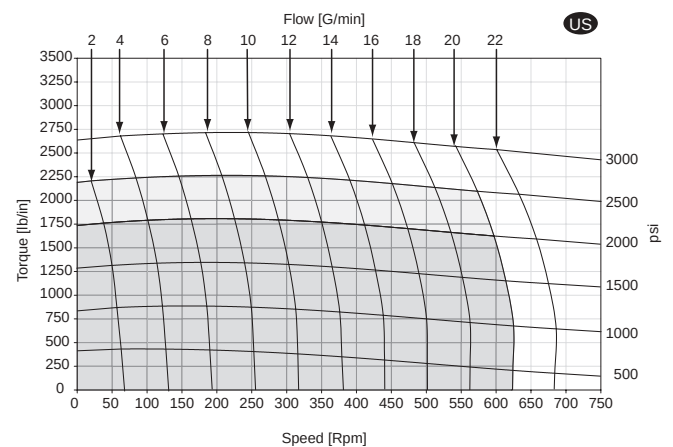
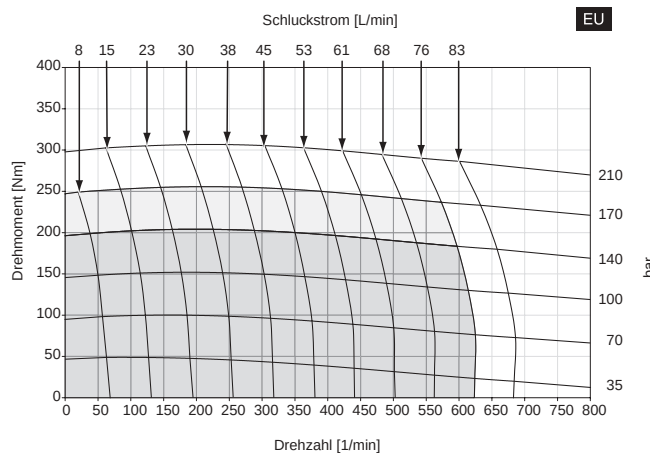
110A 036



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.

Global110A.p65.pfm

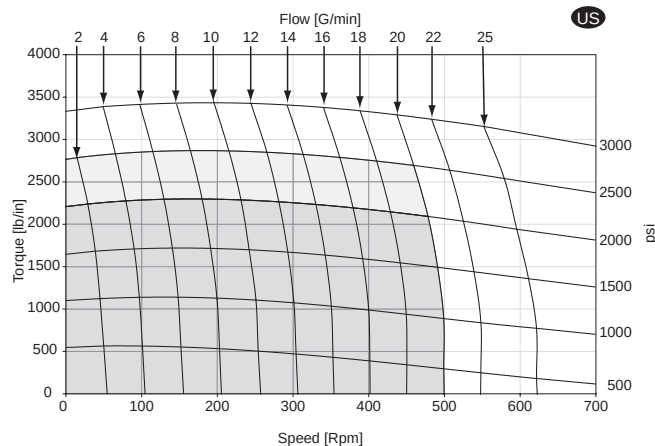
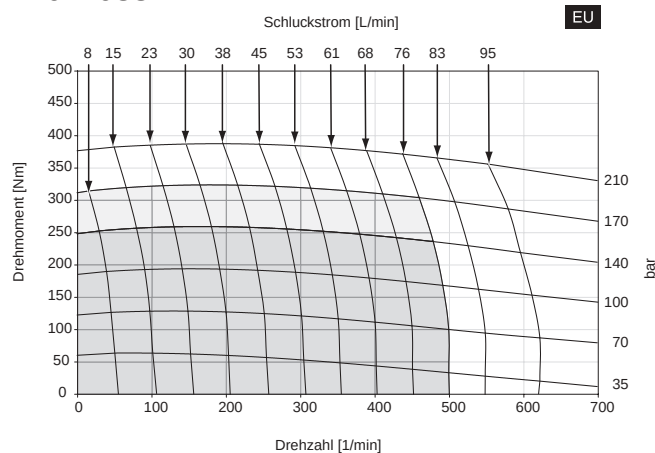
Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

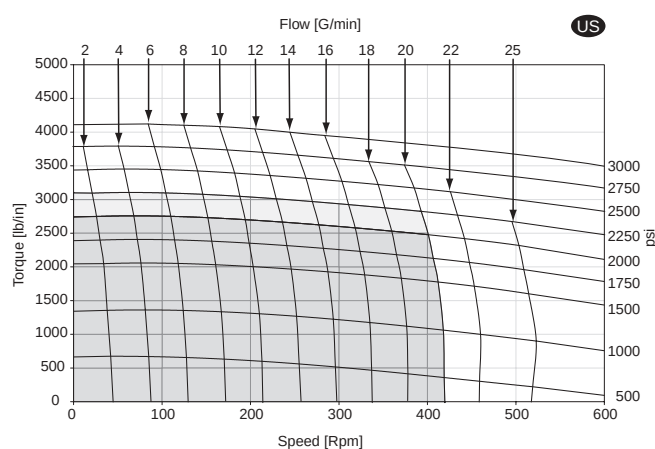
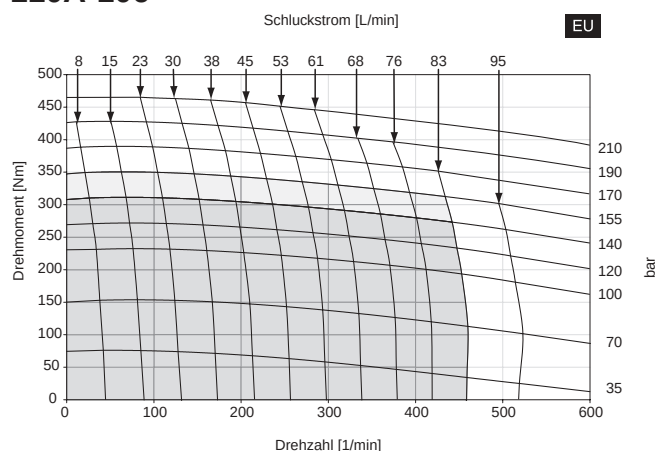
Leistungsdaten sind gemessen mit SAE 15W40 bei einer Viskosität von 43,1 Cst bei 54°C. Geringfügige Abweichungen von den Katalogerten sind möglich.

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

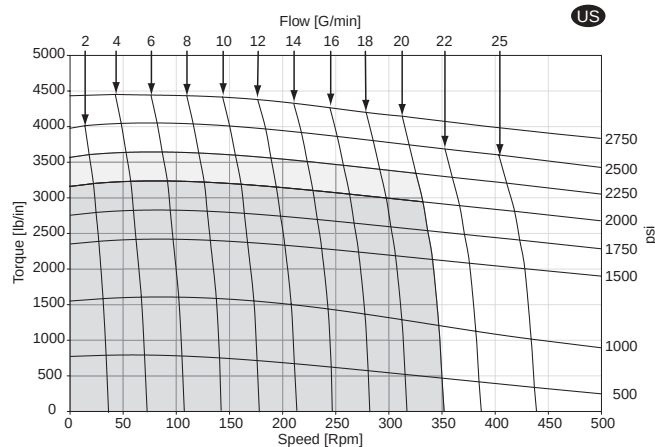
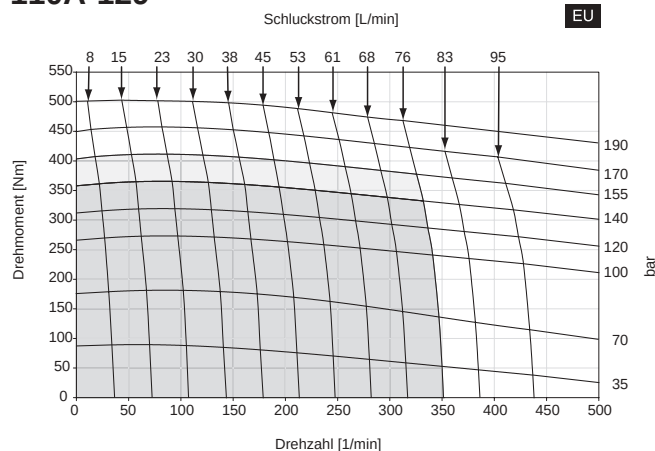
110A 088



110A 106



110A 129



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

Global 110A.p65.pfm

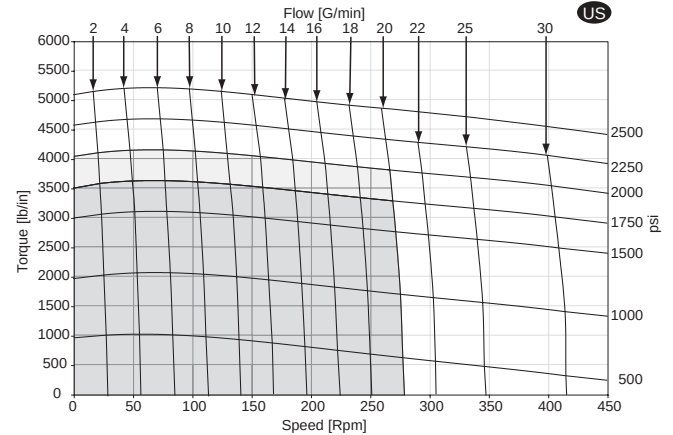
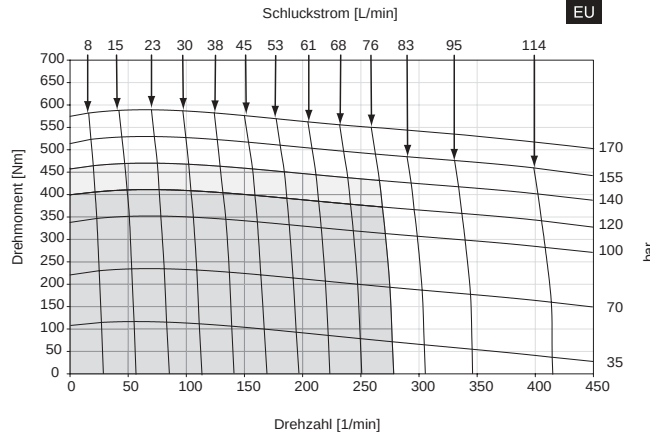
Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

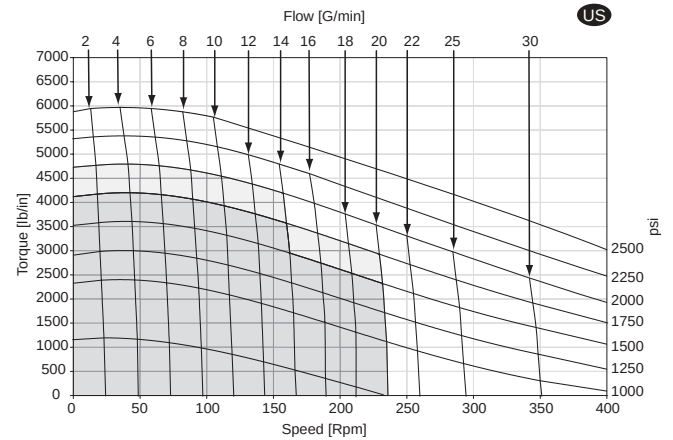
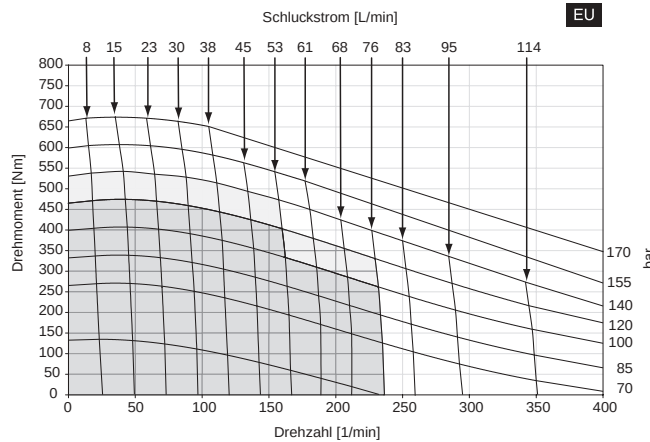
Leistungsdaten sind gemessen mit SAE 15W40 bei einer Viskosität von 43,1 Cst bei 54°C. Geringfügige Abweichungen von den Katalogerten sind möglich.

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.

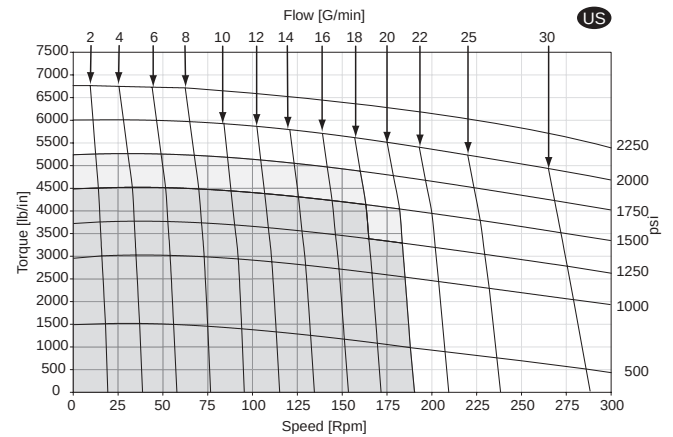
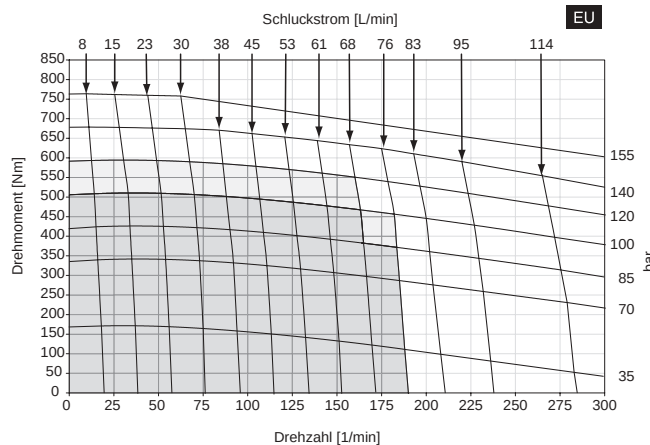
110A 164



110A 189



110A 241



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

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.

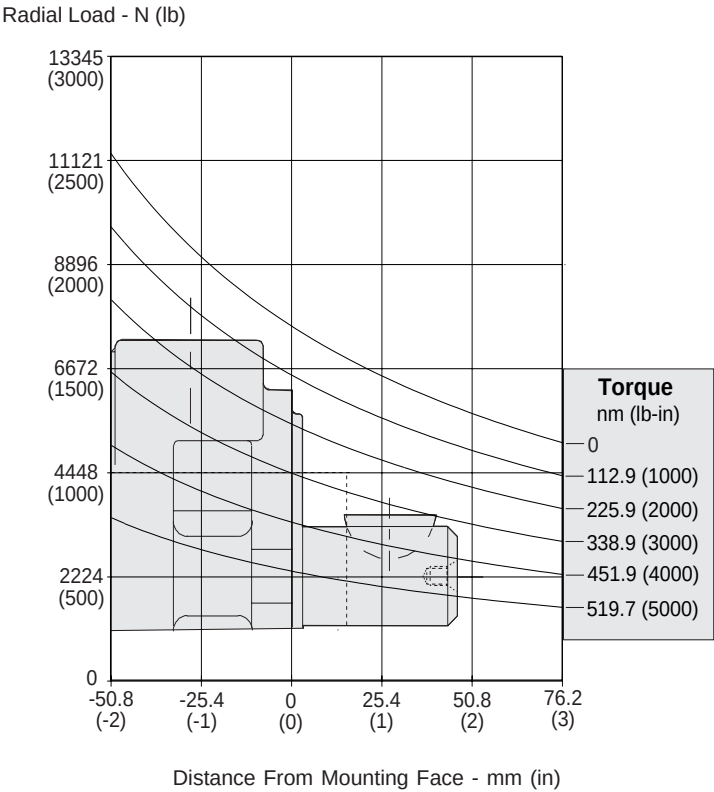
Global110A.p65.pfm

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.

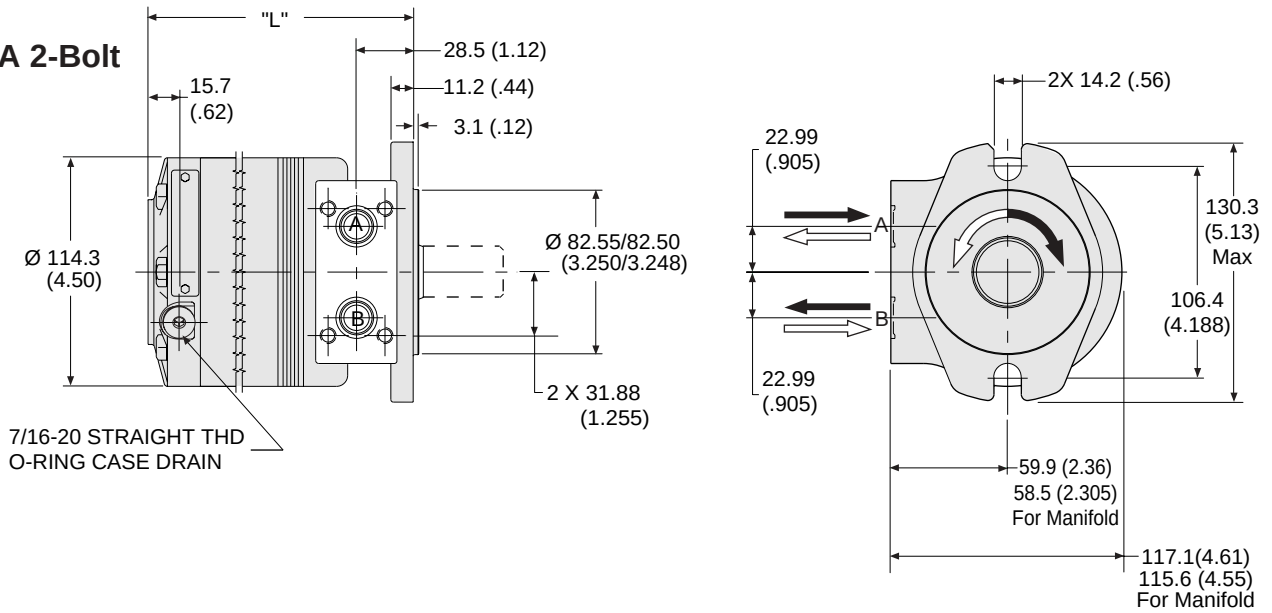
Datos tecnicos obtenidos con aceite 15W40 de 55 cSt (215 SUS) de viscosidad a 54°C (130°F). Los datos proporcionados son valores tipicos. Los valores exactos reales podrian tener una pequena variacion entre distintos motores.



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: A

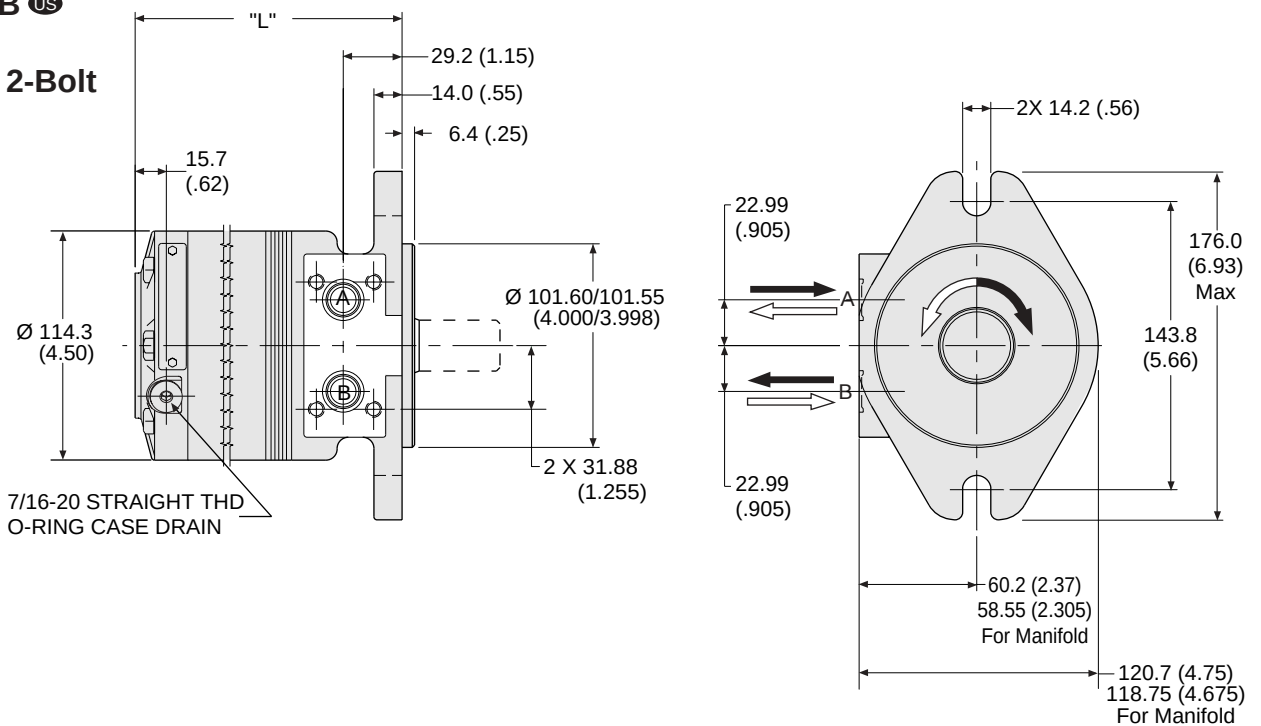
SAE A 2-Bolt



Code A	036	054	071	088	106	129	164	189	241
Weight/Gewicht kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4	9.8	10.8
Poids/Peso (lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)	(21.6)	(23.7)
Length "L" mm	112	117	121	127	131	138	147	154	169
"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)	(6.07)	(6.64)

Code: B

SAE B 2-Bolt



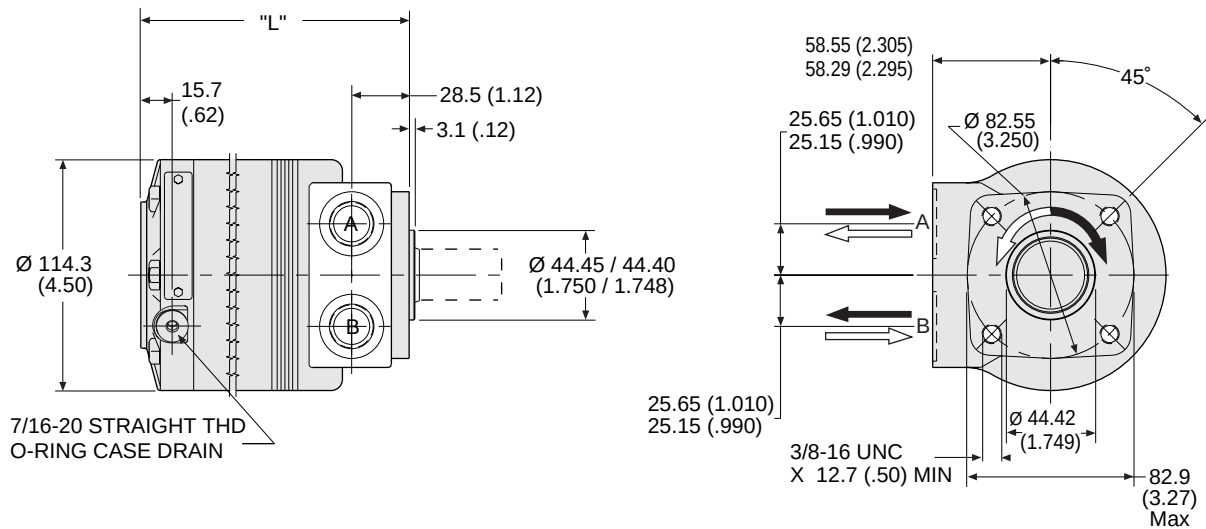
Code B	036	054	071	088	106	129	164	189	241
Weight/Gewicht kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4	9.8	10.8
Poids/Peso (lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)	(21.6)	(23.7)
Length "L" mm	112	117	121	127	131	138	147	154	169
"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)	(6.07)	(6.64)

English equivalents for metric specifications are shown in ().

Global110A.p65.pfm

Code: F 

4-Bolt



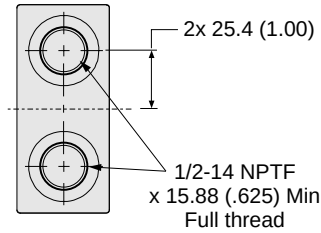
Code F		036	054	071	088	106	129	164	189	241
Weight/Gewicht	kg	7.0	7.4	7.7	8.0	8.4	8.7	9.4	9.8	10.8
Poids/Peso	(lb)	(15.4)	(16.2)	(16.9)	(17.5)	(18.4)	(19.1)	(20.6)	(21.6)	(23.7)
Length	"L" mm	112	117	121	127	131	138	147	154	169
	"L" (in)	(4.41)	(4.60)	(4.78)	(4.98)	(5.17)	(5.42)	(5.80)	(6.07)	(6.64)

English equivalents for metric specifications are shown in ().

Global 110A.p65.pfm

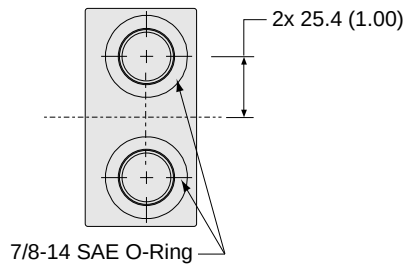
Code: P 

1/2"-14 NPTF



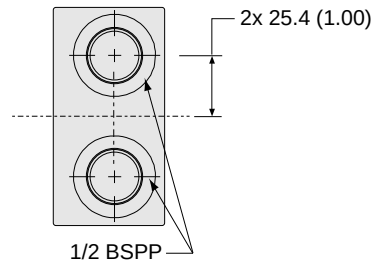
Code: S 

7/8"-14 SAE O-Ring



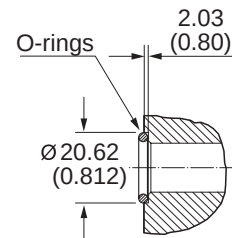
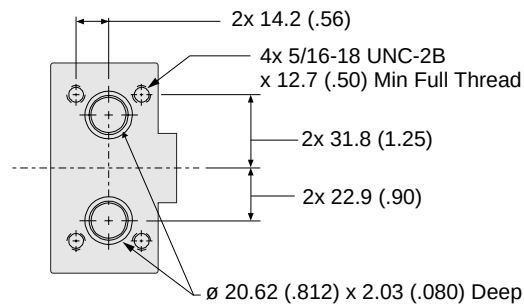
Code: T 

1/2" BSPP



Code: M 

Manifold



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.

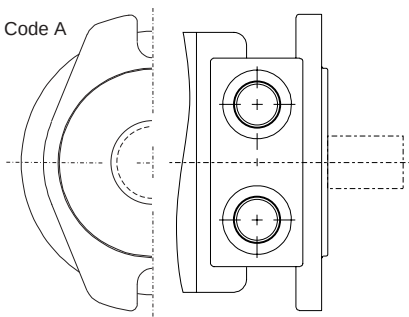
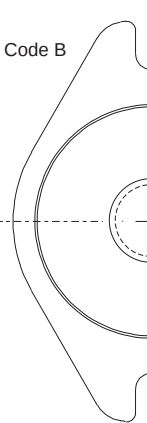
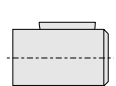
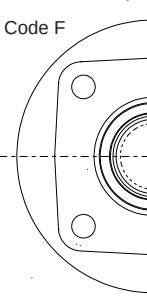
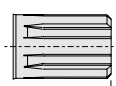
Code: H 

ISO 6149 M22x1.5

Consult Factory

English equivalents for metric specifications are shown in ().

Global110A.p65.pfm

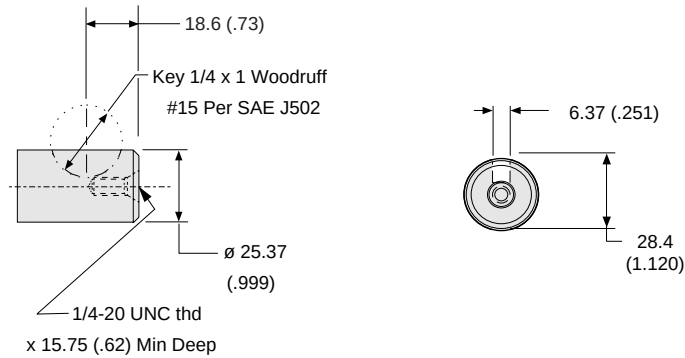
	Code A		
Code: 0 			45.5 (1.79)
1" Keyed			
Code: 1 			45.5 (1.79)
1" 6B Spline			
Code: 2 			54.6 (2.15)
25mm Keyed			
Code: 3 			53.8 (2.12)
1-1/4" Keyed			

English equivalents for metric specifications are shown in ().

Global 110A.p65,pfm

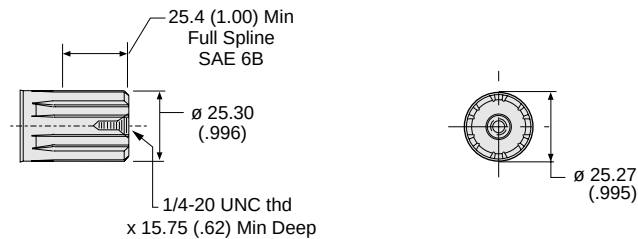
Code: 0 

1" Keyed



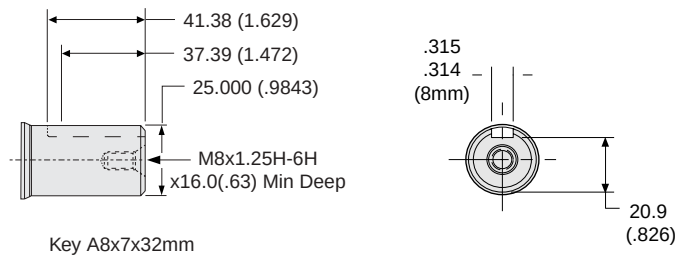
Code: 1 

1" 6B Spline



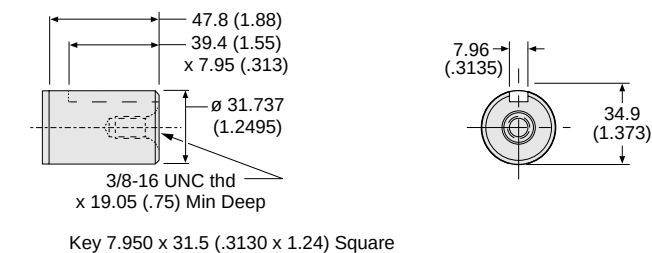
Code: 2 

25mm Keyed



Code: 3 

1-1/4" Keyed



English equivalents for metric specifications are shown in ().

Global110A.p65.pfm

Code: 4 

1-1/4" Tapered

Code: 5 

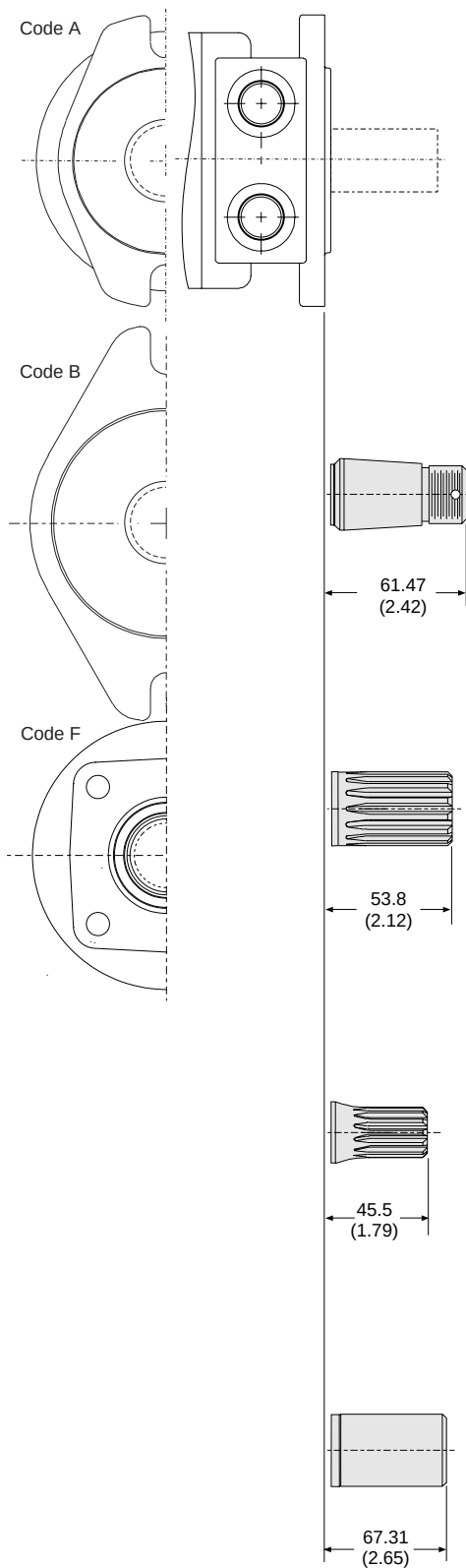
1-1/4"-14 Tooth Spline

Code: 6 

7/8"-13 Tooth Spline

Code: 8 

32mm Keyed

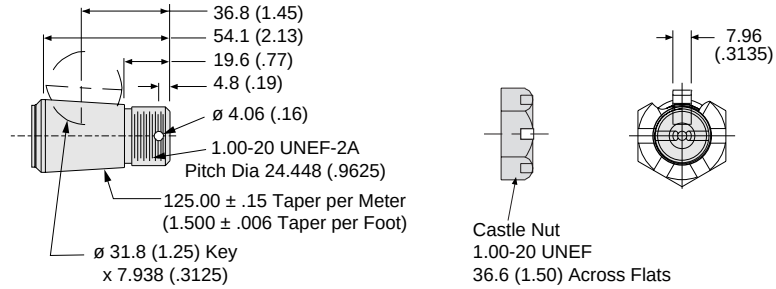


English equivalents for metric specifications are shown in ().

Global 110A.p65,pfm

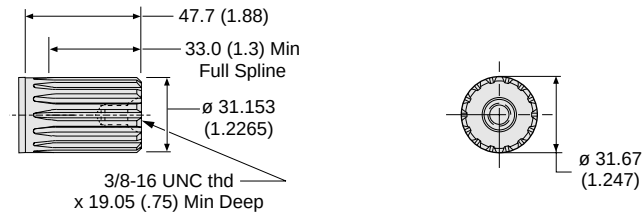
Code: 4 

1-1/4" Tapered



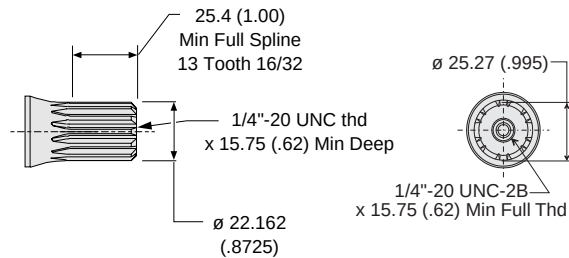
Code: 5 

1-1/4"-14 Tooth Spline



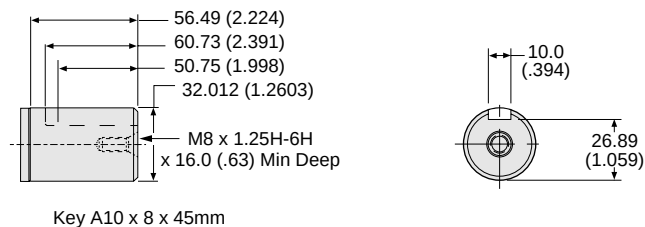
Code: 6 

7/8"-13 Tooth Spline



Code: 8 

32mm Keyed



English equivalents for metric specifications are shown in ().

Global110A.p65.pfm