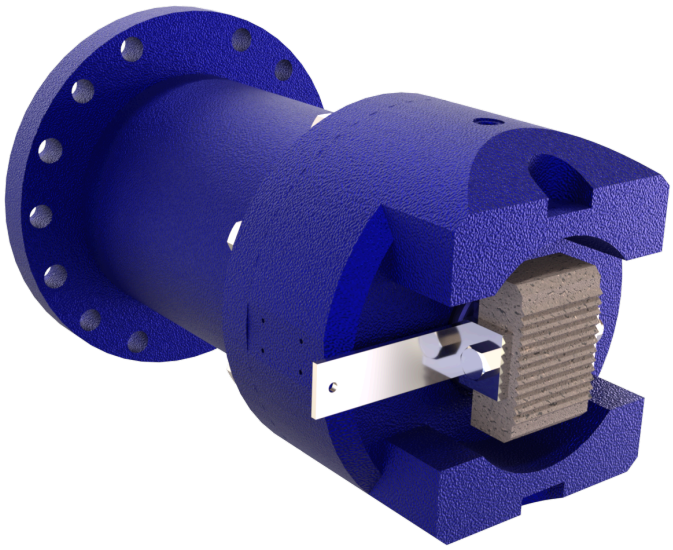


Product Catalogue

Rail Clamps & Brakes

Section 03 · 2026 edition

03.01 Rail Clamps
03.02 Rail Head Brakes
03.03 Wheel Clamps & Brakes
03.04 Electro-Mechanical Rail Clamps & Brakes
03.05 Manual Rail Clamps

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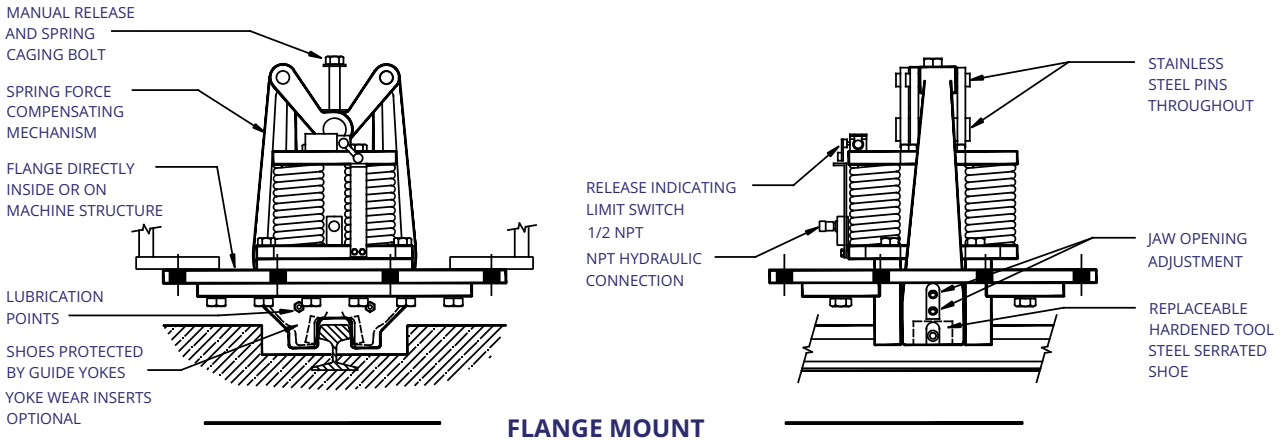
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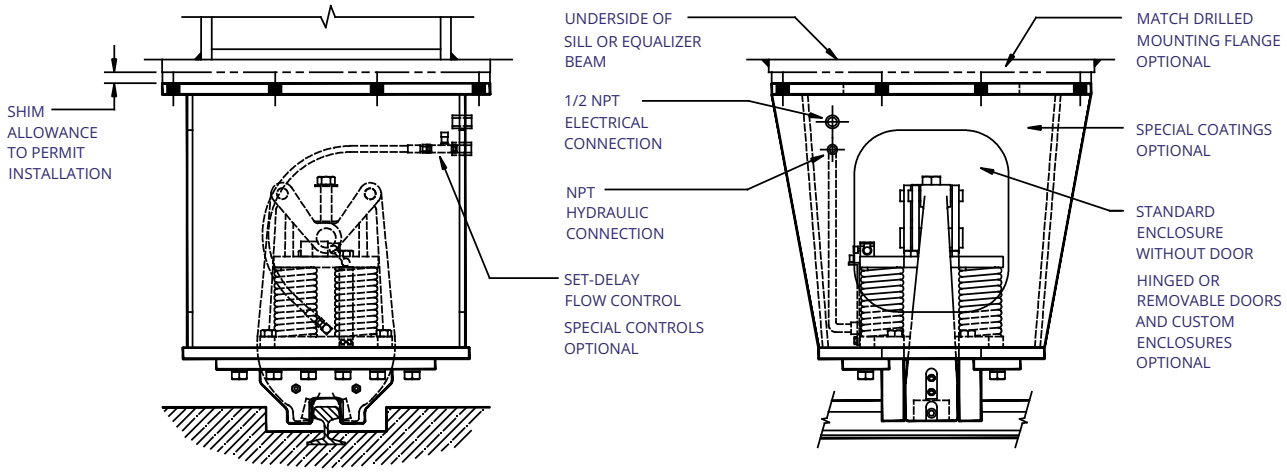
S-C Compact Rail Clamps

Standard features and mounting styles

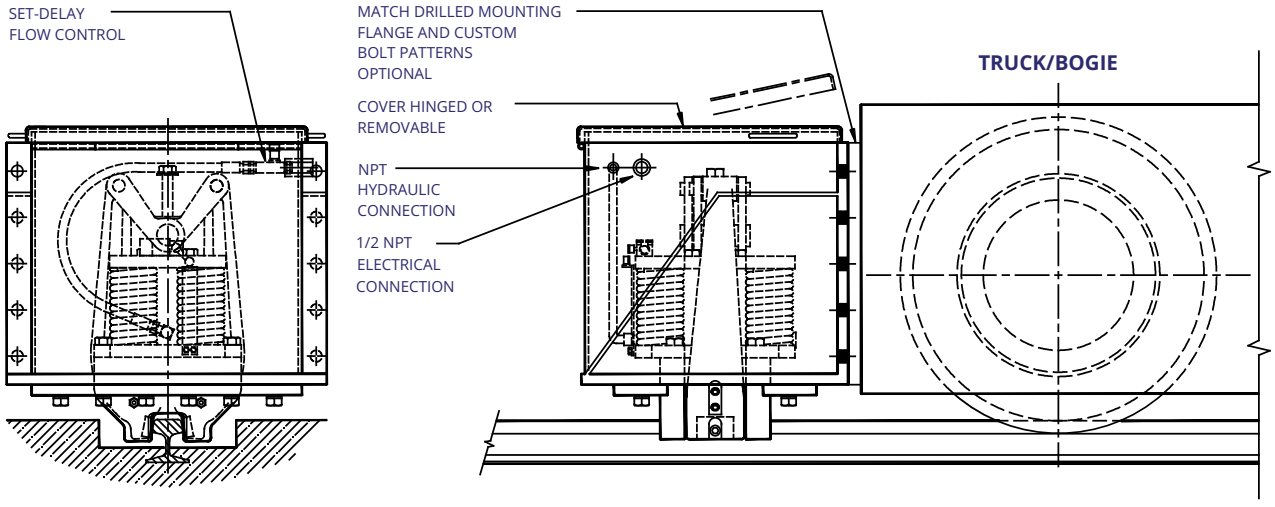
DRAWING
RLC01-1.0



FLANGE MOUNT



SILL BEAM MOUNT



TRUCK-END MOUNT

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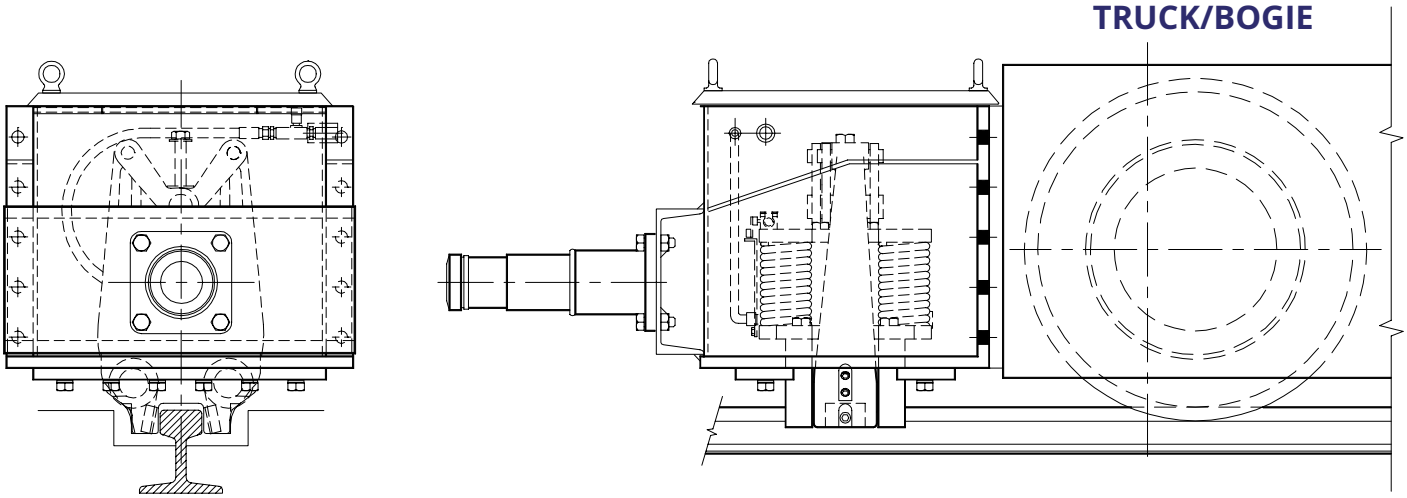
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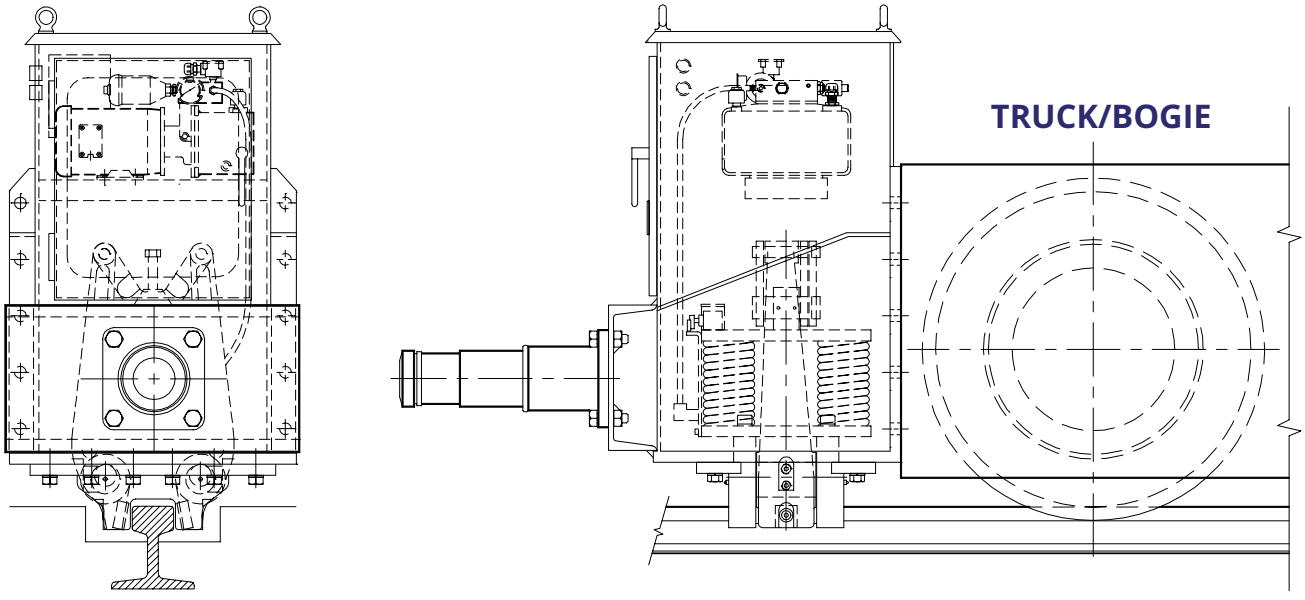
Bumper Option

Truck-end mounted rail clamps

DRAWING
RLC03-1.0



STC RAIL CLAMP



STH RAIL CLAMP

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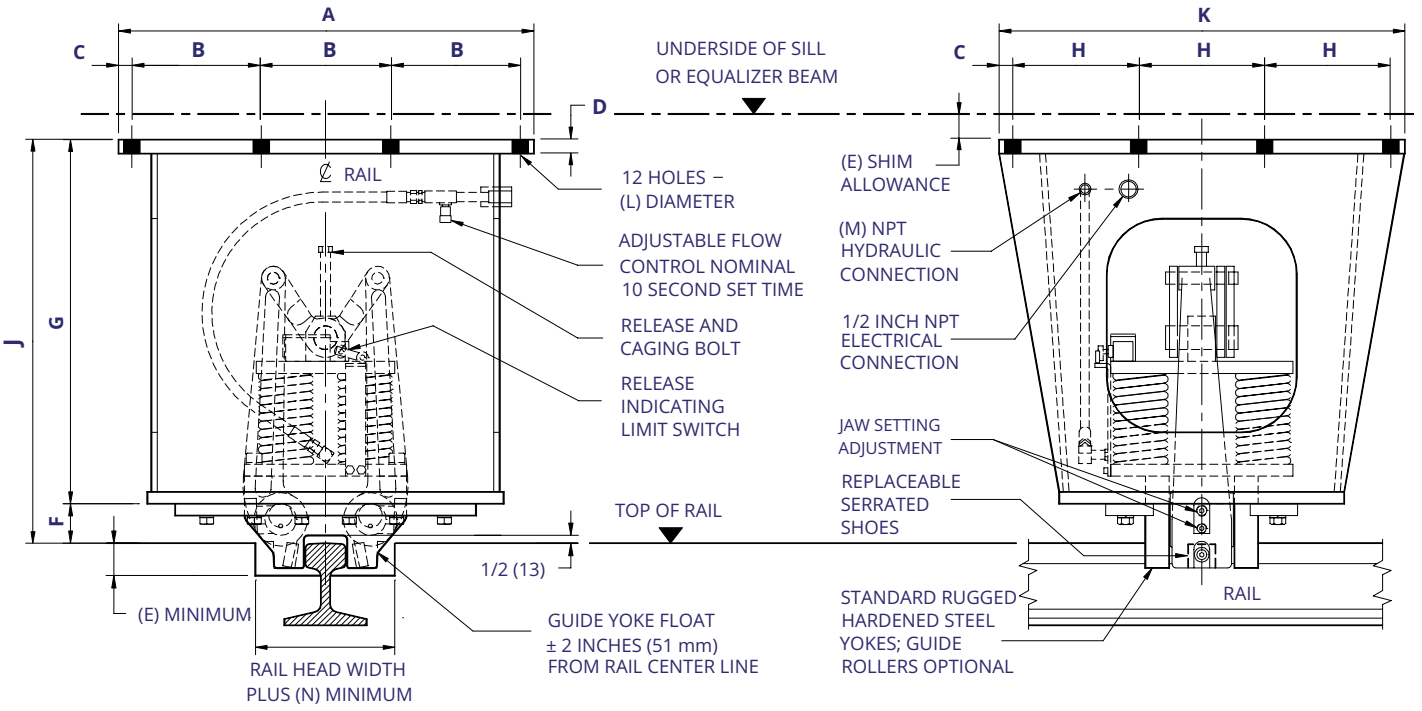
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SBC Sill Beam Mounted Rail Clamps

Compact Series

DRAWING
SBC01-5.3



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in^3/cm^3)

- SHOE CONDITION MUST BE MAINTAINED TO ENSURE HOLDING CAPACITY.
- Spring-set & hydraulic released
- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Adjustable flow control, nominal 10 second set time
- Release and caging bolt; release indicating limit switch
- Replaceable serrated shoes; jaw setting adjustment
- Standard rugged hardened steel yokes; guide rollers optional
- Guide yoke float ±2 inches (51 mm) from rail centre line
- 1/2 inch NPT electrical connection; (M) NPT hydraulic connection
- 12 holes — (L) diameter; (E) shim allowance
- Mounts to the underside of sill or equaliser beam

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in^3/cm^3	A	B	C	D	E	F	G	H	J
SBC012	12500 / 56	0.625 / 16	440 / 200	1010 / 7.0	930 / 6.4	8.8 / 145	21.5/546	6.75/171	0.625/16	0.625/16	1.75/44	2/51	22/559	7/178	24/610
SBC025	25000 / 111	0.75 / 20	580 / 264	1240 / 8.5	1140 / 7.9	16.2 / 266	25.5/648	8/203	0.75/19	0.75/19	2/51	2.5/64	22.5/572	7.5/191	25/635
SBC050	50000 / 222	1 / 27	960 / 436	1270 / 8.7	1160 / 8.0	31.2 / 511	29.75/756	9.25/235	1/25	1/25	2/51	3/76	25/635	9/229	28/711
SBC075	75000 / 334	1.125 / 30	1480 / 673	1150 / 7.9	1050 / 7.2	49.8 / 815.3	33.75/857	10.5/267	1.125/29	1.125/29	2.25/57	3.5/89	30.5/775	10.5/267	34/864
SBC100	100000 / 445	1.25 / 33	2250 / 1023	1150 / 7.9	1050 / 7.2	66.4 / 1088	37/940	11.5/292	1.25/32	1.25/32	2.25/57	4/102	36/914	13/330	40/1016
SBC115	115000 / 511	1.25 / 33	2250 / 1023	1270 / 8.7	1160 / 8.0	66.4 / 1088	37/940	11.5/292	1.25/32	1.25/32	2.25/57	4/102	36/914	13/330	40/1016
SBC150	150000 / 667	1.5 / 39	3600 / 1636	1150 / 7.9	1050 / 7.2	85.0 / 1390	42/1067	13/330	1.5/38	1.5/38	2.25/57	5/127	43/1092	15/381	48/1219

Model no.	K	L	M	N
SBC012	22.25/565	0.688/17.5	0.25/6	4.25/108
SBC025	24/610	0.813/21.5	0.25/6	5.00/127
SBC050	29/737	1.063/28.5	0.38/10	6.25/159
SBC075	33.75/857	1.188/32	0.50/13	7.50/191
SBC100	41.5/1054	1.313/35	0.50/13	9.00/229
SBC115	41.5/1054	1.313/35	0.50/13	9.00/229
SBC150	48/1219	1.625/41	0.50/13	9.75/248

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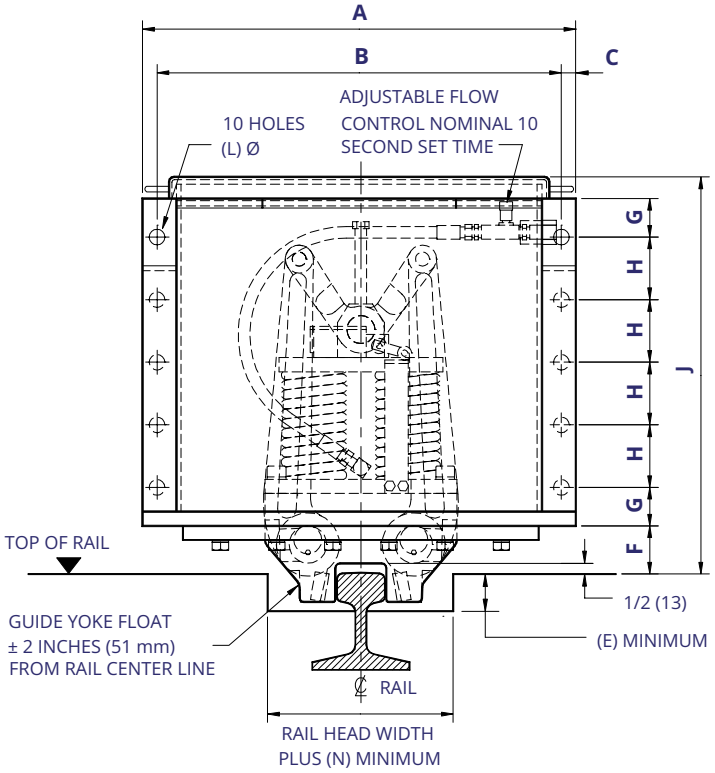
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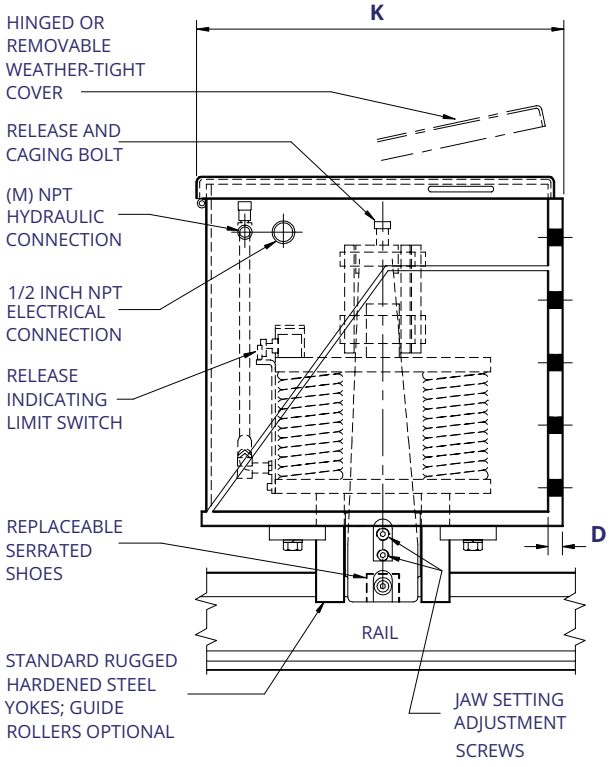
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STC Truck Mounted Rail Clamps

Compact Series

DRAWING
STC01-4.2





Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in^3/cm^3)

- Spring-set & hydraulic released
- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Adjustable flow control, nominal 10 second set time
- Release and caging bolt; release indicating limit switch
- Replaceable serrated shoes; jaw setting adjustment
- Standard rugged hardened steel yokes; guide rollers optional
- Guide yoke float ±2 inches (51 mm) from rail centre line
- Shoe condition must be maintained to ensure holding capacity
- 1/2 inch NPT electrical connection; (M) NPT hydraulic connection
- 10 holes (L) Ø
- Hinged or removable weather-tight cover
- Jaw setting adjustment screws

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in^3/cm^3	A	B	C	D	E	F	G	H	J
STC012	12500 / 56	0.625 / 16	390 / 177	1010 / 7.0	930 / 6.4	8.8 / 145	19.25/489	18/457	0.625/16	0.625/16	1.75/44	2/51	1.75/44	3/76	18.75/476
STC025	25000 / 111	0.75 / 20	440 / 200	1240 / 8.5	1140 / 7.9	16.2 / 266	22.5/572	21/533	0.75/19	0.75/19	2/51	2.5/64	2/51	3.25/83	20.75/527
STC050	50000 / 222	1 / 27	850 / 386	1270 / 8.7	1160 / 8.0	31.2 / 511	26/660	24/610	1/25	1/25	2/51	3/76	2.5/64	3.5/89	23.25/591
STC075	75000 / 334	1.125 / 30	1330 / 605	1150 / 7.9	1050 / 7.2	49.8 / 815.3	29.25/743	27/686	1.125/29	1.125/29	2.25/57	3.5/89	3/76	5/127	30.75/781
STC100	100000 / 445	1.25 / 33	1980 / 900	1150 / 7.9	1050 / 7.2	66.4 / 1088	32.5/826	30/762	1.25/32	1.25/32	2.25/57	4/102	3.25/83	6/152	35.75/908
STC150	150000 / 667	1.5 / 39	2650 / 1200	1150 / 7.9	1050 / 7.2	85.0 / 1390	36/914	33/838	1.5/38	1.5/38	2.75/70	4.5/114	4.75/121	7/178	40.5/1029

Model no.	K	L	M	N
STC012	16.5/419	0.688/17.5	0.25/6	4.25/108
STC025	19/483	0.813/21.5	0.25/6	5.00/127
STC050	23/584	1.063/28.5	0.38/10	6.25/159
STC075	28.25/718	1.188/32	0.50/13	7.50/191
STC100	32.5/826	1.313/35	0.50/13	9.0/229
STC150	38/965	1.625/41	0.50/13	9.75/248

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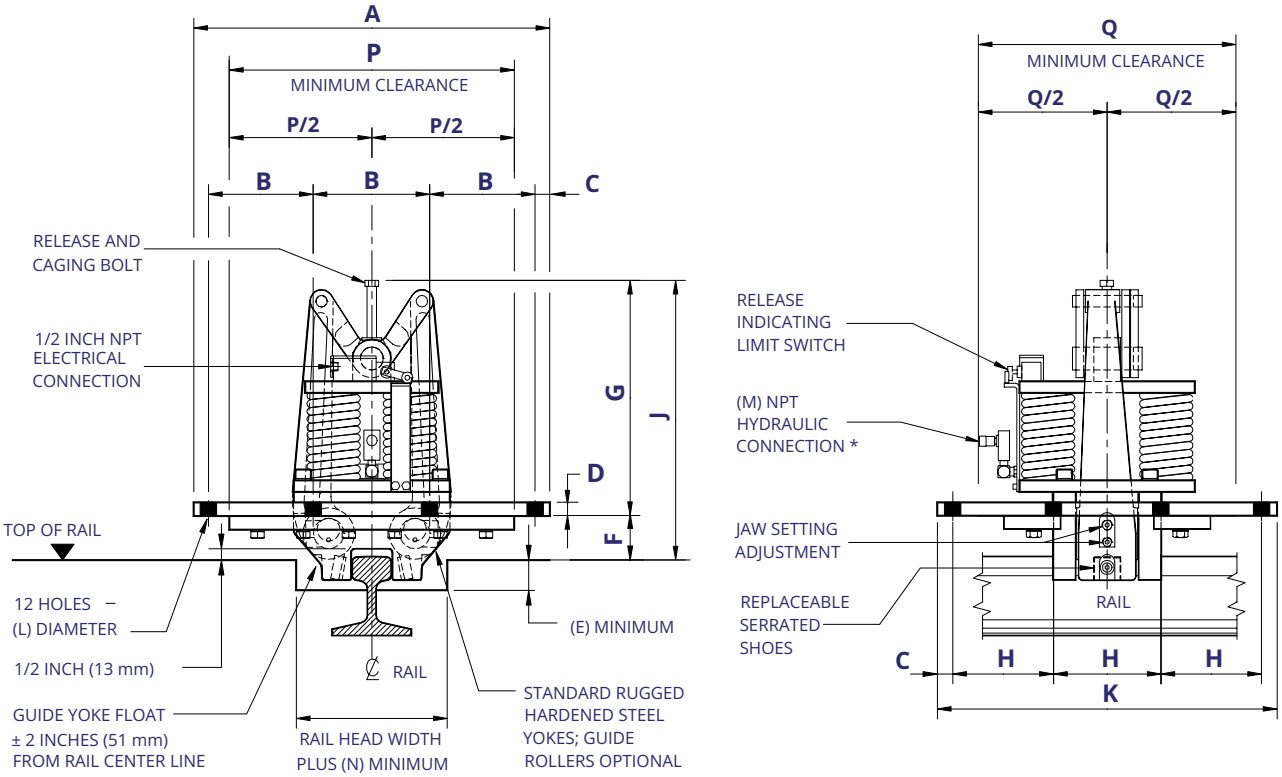
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SFC Flange Mounted Rail Clamps

Compact Series

DRAWING
SFC01-4.2



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in³/cm³)

- * NOTE: SUPPORT STRUCTURE CLEARANCE MUST ALLOW FOR MOVEMENT OF CONNECTING HOSE ASSEMBLY.
- Spring-set & hydraulic released
- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Release and caging bolt; release indicating limit switch
- Replaceable serrated shoes; jaw setting adjustment
- Standard rugged hardened steel yokes; guide rollers optional
- Guide yoke float ±2 inches (51 mm) from rail centre line
- 1/2 inch NPT electrical connection; (M) NPT hydraulic connection
- 12 holes — (L) diameter; (E) shim allowance minimum
- P and Q are minimum clearance dimensions (P/2 and Q/2 either side)

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in³/cm³	A	B	C	D	E	F	G	H	J
SFC012	12500 / 56	0.625 / 16	260 / 118	1010 / 7.0	930 / 6.4	8.8 / 145	19.25/489	6/152	0.625/16	0.625/16	1.75/44	2/51	15/381	4.75/121	17/432
SFC025	25000 / 111	0.75 / 20	340 / 155	1240 / 8.5	1140 / 7.9	16.2 / 266	22.5/572	7/178	0.75/19	0.75/19	2/51	2.5/64	16.5/419	5.5/140	19/483
SFC050	50000 / 222	1 / 27	560 / 255	1270 / 8.7	1160 / 8.0	31.2 / 511	26/660	8/203	1/25	1/25	2/51	3/76	18/457	6.5/165	21/533
SFC075	75000 / 334	1.125 / 30	870 / 395	1150 / 7.9	1050 / 7.2	49.8 / 815.3	29.25/743	9/229	1.125/29	1.125/29	2.25/57	3.5/89	20.5/521	8.25/210	24/610
SFC100	100000 / 445	1.25 / 33	1290 / 586	1150 / 7.9	1050 / 7.2	66.4 / 1088	32.5/826	10/254	1.25/32	1.25/32	2.25/57	4/102	23/584	9.5/241	27/686
SFC150	150000 / 667	1.5 / 39	1800 / 818	1150 / 7.9	1050 / 7.2	85.0 / 1390	36/914	11/279	1.5/38	1.5/38	2.75/70	4.5/114	26/660	11.5/292	30/762

Model no.	K	L	M	N	P	Q
SFC012	15.5/394	0.688/17.5	0.25/6	4.25/108	16.5/419	13/330
SFC025	18/457	0.813/21.5	0.25/6	5.00/127	19.5/495	15/381
SFC050	21.5/546	1.063/28.5	0.38/10	6.25/159	21.5/546	17.5/445
SFC075	27/686	1.188/32	0.50/13	7.50/191	24.5/622	22/559
SFC100	31/787	1.313/35	0.50/13	9.00/229	26.5/673	26/660
SFC150	37/940	1.625/41	0.50/13	9.75/248	30/762	30/762

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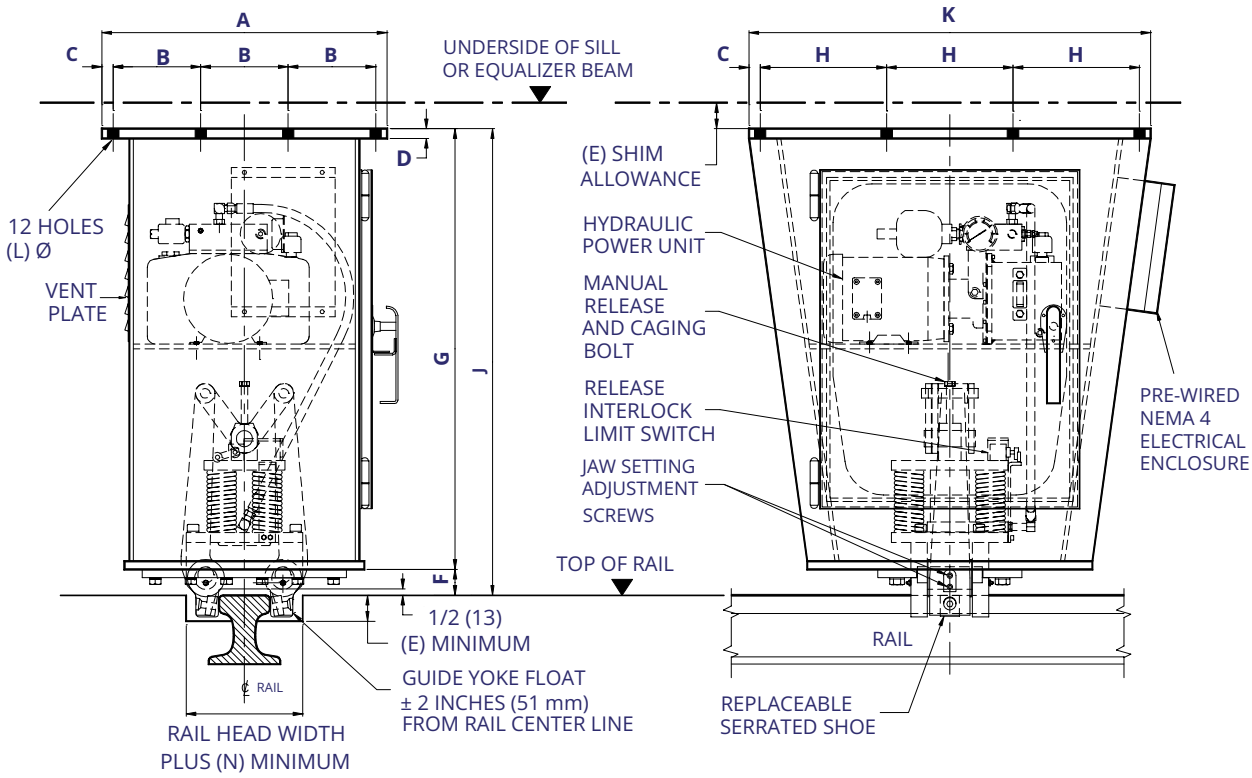
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SBH Sill Beam Mounted Rail Clamps with Integral Hydraulic Unit

DRAWING
SBH-03.2



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in³/cm³)

- Spring-set & hydraulic released
- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Release and caging bolt; release indicating limit switch
- Replaceable serrated shoes; jaw setting adjustment
- Standard rugged hardened steel yokes; guide rollers optional
- Guide yoke float ±2 inches (51 mm) from rail centre line
- 1/2 inch NPT electrical connection; (M) NPT hydraulic connection
- 12 holes (L) Ø; (E) shim allowance
- Integral hydraulic power unit and vent plate
- Pre-wired NEMA 4 electrical enclosure
- Manual release and caging bolt; release interlock limit switch
- Mounts to the underside of sill or equaliser beam

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in³/cm³	A	B	C	D	E	F	G	H
SBH012	12500 / 56	0.625 / 16	720 / 328	1010 / 7.0	930 / 6.4	8.8 / 145	22.25/565	7/178	0.625/16	0.625/16	1.75/44	2/51	34/864	9.75/248
SBH025	25000 / 111	0.75 / 20	860 / 391	1240 / 8.5	1140 / 7.9	16.2 / 266	25.5/648	8/203	0.75/19	0.75/19	2/51	2.5/64	35.5/902	10.75/273
SBH050	50000 / 222	1 / 27	1200 / 545	1270 / 8.7	1160 / 8.0	31.2 / 511	29.75/756	9.25/235	1/25	1/25	2/51	3/76	38/965	11.75/298
SBH075	75000 / 334	1.125 / 30	1850 / 841	1150 / 7.9	1050 / 7.2	49.8 / 815.3	33.75/857	10.5/254	1.125/29	1.125/29	2.25/57	3.5/89	44.5/1130	12.75/324
SBH100	100000 / 445	1.25 / 33	2650 / 1204	1150 / 7.9	1050 / 7.2	66.4 / 1088	37/940	11.5/300	1.25/32	1.25/32	2.25/57	4/102	49/1245	15/381
SBH150	150000 / 667	1.5 / 39	3450 / 1568	1150 / 7.9	1050 / 7.2	85.0 / 1390	42/1067	13/330	1.5/38	1.5/38	2.75/70	4.5/114	55.5/121	17.5/444

Model no.	J	K	L	N
SBH012	36/915	30.5/775	0.688/17.5	4.25/108
SBH025	38/965	33.75/857	0.812/21	5.00/127
SBH050	43/1092	37.25/946	1.062/28.5	6.25/159
SBH075	48/1219	40.5/1029	1.188/32	7.50/191
SBH100	53/1346	47.25/1200	1.312/35	9.00/229
SBH150	60/1524	55.5/1410	1.625/41	9.75/248

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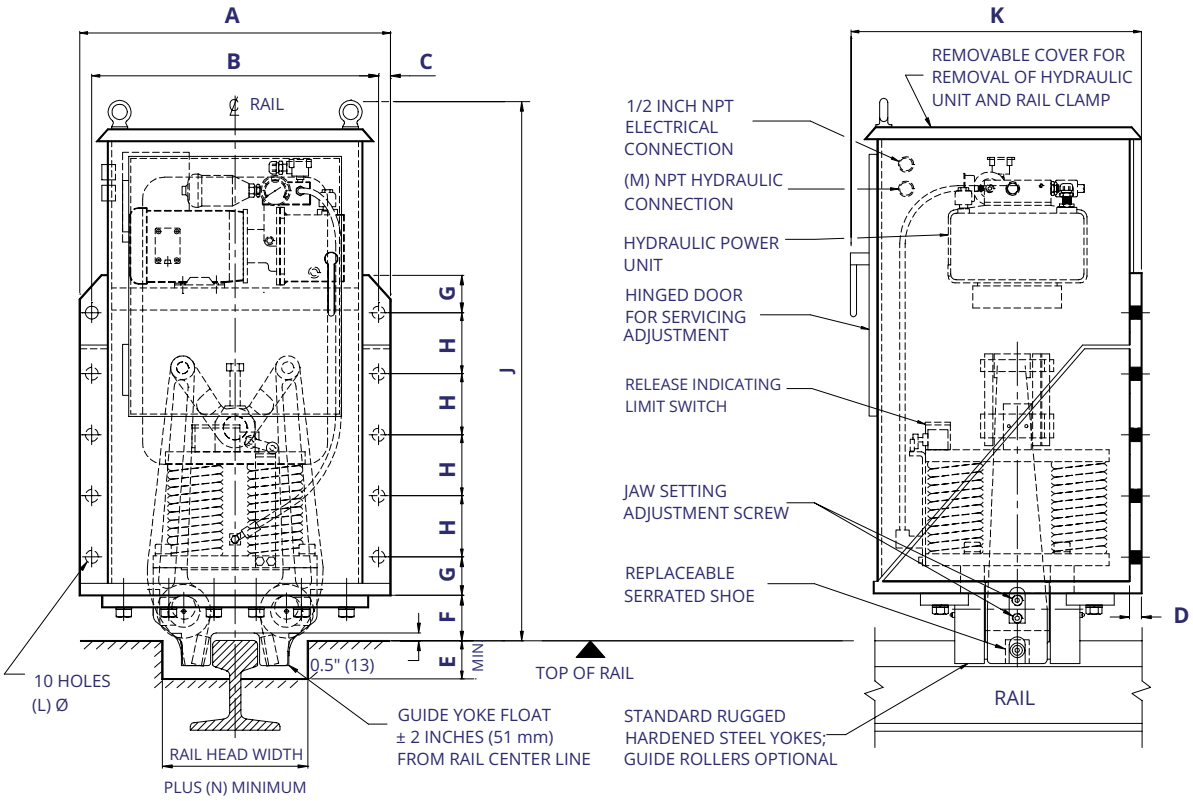
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STH Truck Mounted Rail Clamps with Integral Hydraulic Unit

DRAWING
STH-01.4



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in^3/cm^3)

- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Replaceable serrated shoe; jaw setting adjustment screws
- Guide yoke float ±2 inches (51 mm) from rail centre line
- 1/2 inch NPT electrical connection; (M) NPT hydraulic connection
- Spring-set & hydraulic released
- 10 holes (L) Ø
- Integral hydraulic power unit; hinged door for servicing adjustment
- Removable cover for removal of hydraulic unit and rail clamp
- Release indicating limit switch
- Standard rugged hardened steel yokes; guide rollers optional

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in^3/cm^3	A	B	C	D	E	F	G	H	J
STH012	12500 / 56	0.625 / 16	590 / 270	1010 / 7.0	930 / 6.4	8.8 / 145	23.75/603	22.5/572	0.625/16	0.625/16	1.75/44	2/51	1.75/44	3/76	36/914
STH025	25000 / 111	0.75 / 20	710 / 322	1240 / 8.5	1140 / 7.9	16.2 / 266	25/635	23.5/597	0.75/19	0.75/19	2/51	2.5/64	2/51	3.25/83	38/965
STH050	50000 / 222	1 / 27	1190 / 522	1270 / 8.7	1160 / 8.0	31.2 / 511	27.5/699	25.5/648	1/25	1/25	2/51	3/76	2.5/64	3.5/89	43/1092
STH075	75000 / 334	1.125 / 30	1650 / 750	1150 / 7.9	1050 / 7.2	49.8 / 815.3	30.25/784	28/711	1.125/29	1.125/29	2.25/57	3.5/89	3/76	5/127	48/1219
STH100	100000 / 445	1.25 / 33	2350 / 1068	1150 / 7.9	1050 / 7.2	66.4 / 1088	32.5/826	30/762	1.25/32	1.25/32	2.25/57	4/102	3.25/83	6/152	53/1346
STH150	150000 / 667	1.375 / 36	3150 / 1430	1150 / 7.9	1050 / 7.2	85.0 / 1390	35.75/908	33/838	1.375/35	1.375/35	2.75/70	4.5/114	4.75/121	7/178	60/1524

Model no.	K	L	M	N
STH012	19/483	0.688/17.5	0.25/6	4.25/108
STH025	21/533	0.813/21.5	0.25/6	5.00/127
STH050	25/635	1.063/28.5	0.38/10	6.25/159
STH075	31/788	1.188/32	0.50/13	7.50/191
STH100	35/889	1.313/35	0.50/13	8.00/203
STH150	40/1016	1.5/38	0.50/13	8.5/216

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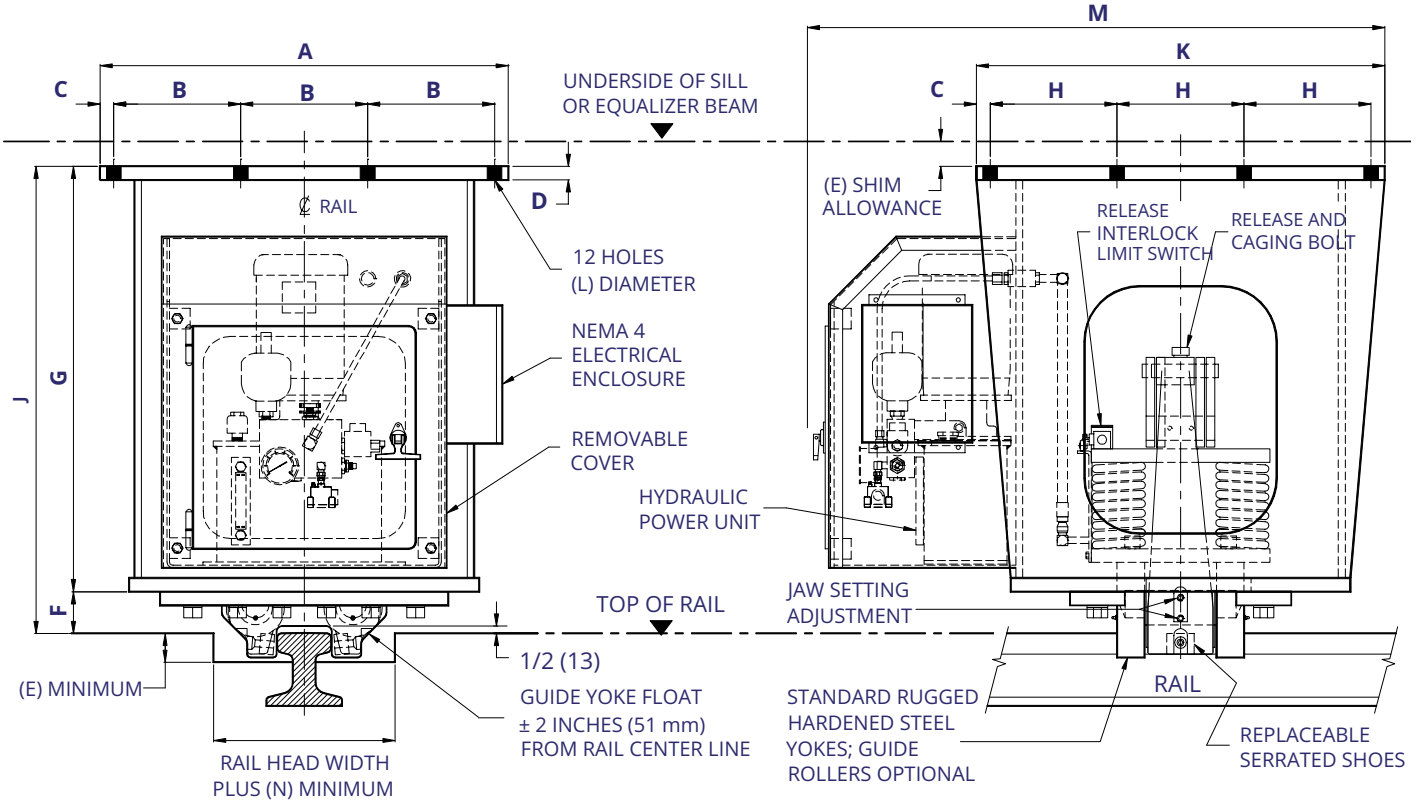
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SBHL Sill Beam Mounted Rail Clamps with Integral Hydraulic Power Unit

DRAWING
SBHL-01.4



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in^3/cm^3)

- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Replaceable serrated shoes; jaw setting adjustment
- Guide yoke float ±2 inches (51 mm) from rail centre line
- 12 holes (L) diameter; (E) shim allowance
- NEMA 4 electrical enclosure; removable cover; integral hydraulic power unit
- Release interlock limit switch; release and caging bolt
- Standard rugged hardened steel yokes; guide rollers optional
- Mounts to the underside of sill or equaliser beam

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in^3/cm^3	A	B	C	D	E	F	G	H
SBHL012	12500 / 56	0.625 / 16	590 / 269	1010 / 7.0	930 / 6.4	8.8 / 145	22.25/565	7/178	0.625/16	0.625/16	1.75/44	2/51	23/584	7/178
SBHL025	25000 / 111	0.75 / 20	750 / 341	1240 / 8.5	1140 / 7.9	16.2 / 266	25.5/648	8/203	0.75/19	0.75/19	2/51	2.5/64	26.5/673	8/203
SBHL050	50000 / 222	1 / 27	1160 / 527	1270 / 8.7	1160 / 8.0	31.2 / 511	29.75/756	9.25/235	1/25	1/25	2/51	3/76	29/737	9.25/235
SBHL075	75000 / 334	1.125 / 30	1720 / 782	1150 / 7.9	1050 / 7.2	49.8 / 815.3	33.75/857	10.5/268	1.125/29	1.125/29	2.25/57	3.5/89	32.5/826	10.5/268
SBHL100	100000 / 445	1.25 / 33	2510 / 1141	1150 / 7.9	1050 / 7.2	66.4 / 1088	37/940	11.5/292	1.25/32	1.25/32	2.25/57	4/102	37/940	11.5/292
SBHL150	150000 / 667	1.5 / 39	3250 / 1478	1150 / 7.9	1050 / 7.2	85.0 / 1390	42/1067	13/330	1.5/38	1.5/38	2.75/70	4.5/114	40.5/1029	13/330

Model no.	J	K	L	M	N
SBHL012	25/635	22.25/565	0.688/17.5	34/864	4.25/108
SBHL025	29/737	25.5/648	0.813/21.5	38.75/984	5.00/127
SBHL050	32/813	29.75/756	1.063/28.5	42/1067	6.25/159
SBHL075	36/914	33.75/857	1.188/32	44.5/1130	7.50/191
SBHL100	41/1042	37/940	1.313/35	50/1270	9.00/229
SBHL150	45/1143	42/1067	1.625/41	54/1372	9.75/248

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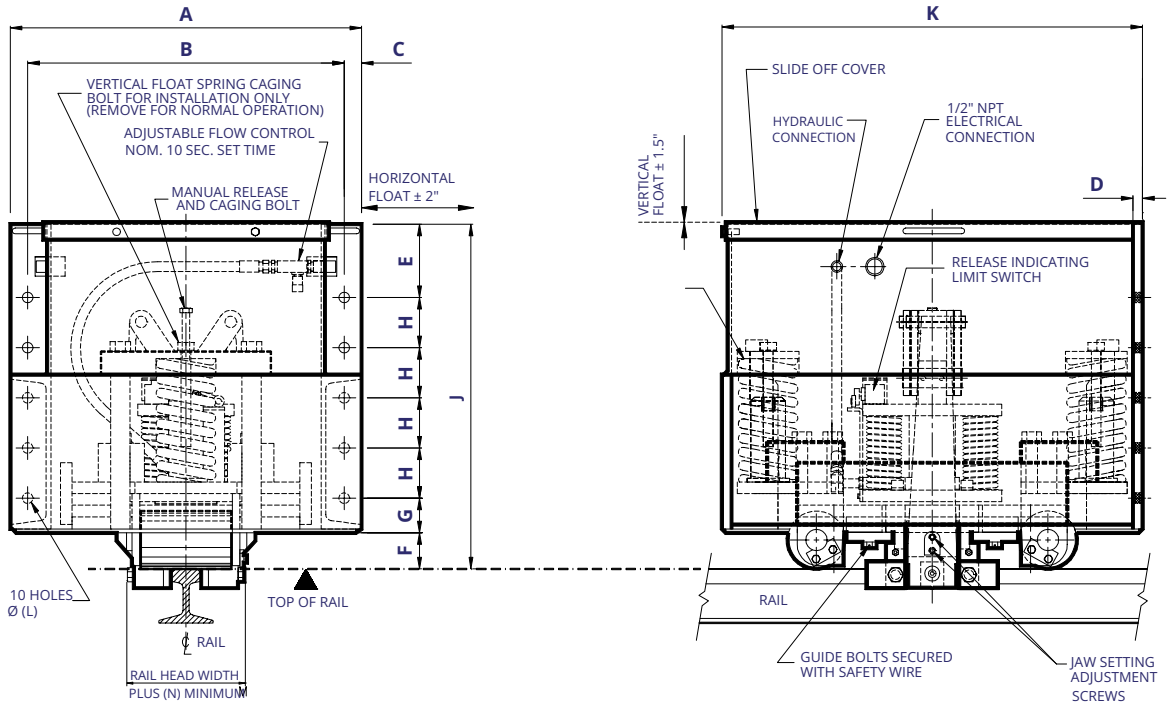
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VTC Truck Mounted Rail Clamps with Vertical and Horizontal Float

DRAWING
VTC-01.0



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in^3/cm^3)

- HOLD DOWN SPRINGS RESIST UPLIFT FORCE ON RAILS WITH ANGLED SIDES
- RAIL CLAMP CAN PIVOT AROUND TRANSITION POINTS AND CHANGES IN RAIL SLOPE
- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Replaceable serrated shoe; jaw setting adjustment screws
- Guide yoke float ±2 inches (51 mm) from rail centre line
- 1/2 inch NPT electrical connection; (M) NPT hydraulic connection
- 10 holes Ø (L)
- Horizontal float ±2 in; vertical float ±1.5 in
- Vertical float spring caging bolt for installation only — remove for normal operation
- Adjustable flow control, nominal 10 second set time; manual release and caging bolt
- Slide-off cover; guide bolts secured with safety wire
- Release indicating limit switch

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in^3/cm^3	A	B	C	D	E	F	G	H
VTC012	12500 / 56	0.625 / 16	710 / 322	1010 / 7.0	930 / 6.4	8.8 / 145	22.75/578	20.5/521	0.625/16	0.625/16	5/127	2.25/57	2.25/57	3.25/83
VTC025	25000 / 111	0.75 / 20	850 / 385	1200 / 8.2	1100 / 7.6	16.2 / 266	26.25/667	24.25/616	0.75/19	0.75/19	6.5/165	2.25/57	2.25/57	3.25/83
VTC050	50000 / 222	1 / 27	1428 / 648	1200 / 8.2	1100 / 7.6	31.2 / 511	30/762	28/711	1/25	1/25	6.75/171	2.5/63.5	2.5/64	4/102
VTC075	75000 / 334	1.125 / 30	1980 / 898	1200 / 8.2	1100 / 7.6	49.8 / 815.3	30.25/784	28/711	1.125/29	1.125/29	9/229	2.0/51	2/51	4.25/108
VTC100	100000 / 445	1.25 / 33	2820 / 1280	1200 / 8.2	1100 / 7.6	66.4 / 1088	37/940	34.5/876	1.25/32	1.25/32	9.5/241	3/76	3/76	5/127
VTC150	150000 / 667	1.375 / 36	3780 / 1715	1200 / 8.2	1100 / 7.6	85.0 / 1390	42/1067	39.25/997	1.375/35	1.375/35	9.5/241	3.5/89	3.5/89	6/152

Model no.	J	K	L	M	N
VTC012	22.5/572	27.5/699	0.688/17.5	0.25/6	4.25/108
VTC025	24/610	31/787	0.813/21.5	0.25/6	5.00/127
VTC050	28/711	34/864	1.063/28.5	0.38/10	6.25/159
VTC075	31/787	38/965	1.188/32	0.50/13	7.50/191
VTC100	36/914	44/1118	1.313/35	0.50/13	8.00/203
VTC150	41/1041	48/1219	1.5/38	0.50/13	8.5/216

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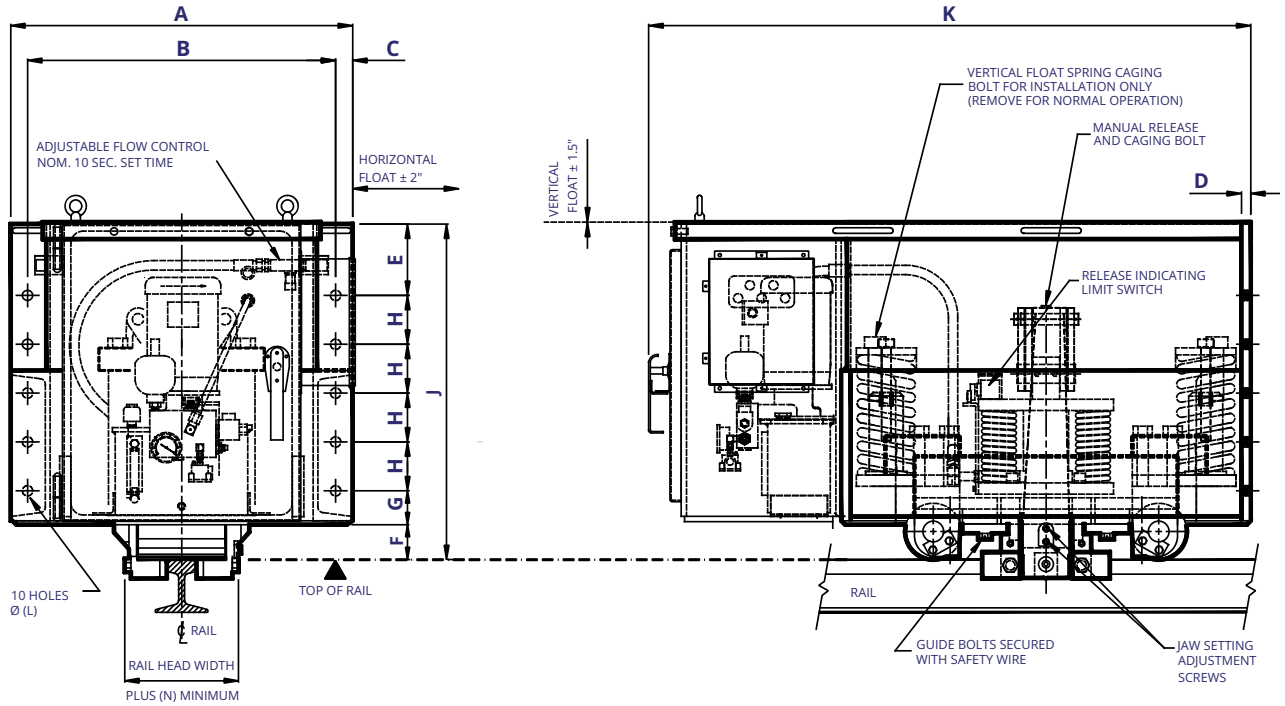
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VTH Truck Mounted Rail Clamps with Vertical and Horizontal Float and Integral Hydraulic Power Units

DRAWING
VTH-01.1



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in^3/cm^3)

- HOLD DOWN SPRINGS RESIST UPLIFT FORCE ON RAILS WITH ANGLED SIDES
- RAIL CLAMP CAN PIVOT AROUND TRANSITION POINTS AND CHANGES IN RAIL SLOPE
- SEALED AND HINGED LID FOR EASY ACCESS, WITH TWO LIFTING HANDLES
- REPLACEABLE GUIDE YOKE INSERTS FOR SIMPLE ADJUSTMENT / MAINTENANCE
- Maximum operating pressure 1800 psi (12.4 MPa)
- Suited to all American, British and European rails
- Replaceable serrated shoes; jaw setting adjustment
- Guide yoke float ±2 inches (51 mm) from rail centre line
- 10 holes Ø (L)
- Horizontal float ±2 in; vertical float ±1.5 in
- Vertical float spring caging bolt for installation only — remove for normal operation
- Adjustable flow control, nominal 10 second set time; manual release and caging bolt
- Release indicating limit switch; guide bolts secured with safety wire

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in^3/cm^3	A	B	C	D	E	F	G	H
VTH012	12500 / 56	0.625 / 16	710 / 322	1010 / 7.0	930 / 6.4	8.8 / 145	22.75/578	20.5/521	0.625/16	0.625/16	5/127	2.25/57	2.25/57	3.25/83
VTH025	25000 / 111	0.75 / 20	850 / 385	1200 / 8.2	1100 / 7.6	16.2 / 266	26.25/667	24.25/616	0.75/19	0.75/19	6.5/165	2.25/57	2.25/57	3.25/83
VTH050	50000 / 222	1 / 27	1428 / 648	1200 / 8.2	1100 / 7.6	31.2 / 511	30/762	28/711	1/25	1/25	6.75/171	2.5/63.5	2.5/64	4/102
VTH075	75000 / 334	1.125 / 30	1980 / 898	1200 / 8.2	1100 / 7.6	49.8 / 815.3	30.25/784	28/711	1.125/29	1.125/29	9/229	2.0/51	2/51	4.25/108
VTH100	100000 / 445	1.25 / 33	2820 / 1280	1200 / 8.2	1100 / 7.6	66.4 / 1088	37/940	34.5/876	1.25/32	1.25/32	9.5/241	3/76	3/76	5/127
VTH150	150000 / 667	1.375 / 36	3780 / 1715	1200 / 8.2	1100 / 7.6	85.0 / 1390	42/1067	39.25/997	1.375/35	1.375/35	9.5/241	3.5/89	3.5/89	6/152

Model no.	J	K	L	M	N
VTH012	22.5/572	47.5/1207	0.688/17.5	0.25/6	4.25/108
VTH025	24/610	51/1295	0.813/21.5	0.25/6	5.00/127
VTH050	28/711	54/1372	1.063/28.5	0.38/10	6.25/159
VTH075	31/787	58/1470	1.188/32	0.50/13	7.50/191
VTH100	36/914	64/1625	1.313/35	0.50/13	8.00/203
VTH150	41/1041	68/1727	1.5/38	0.50/13	8.5/216

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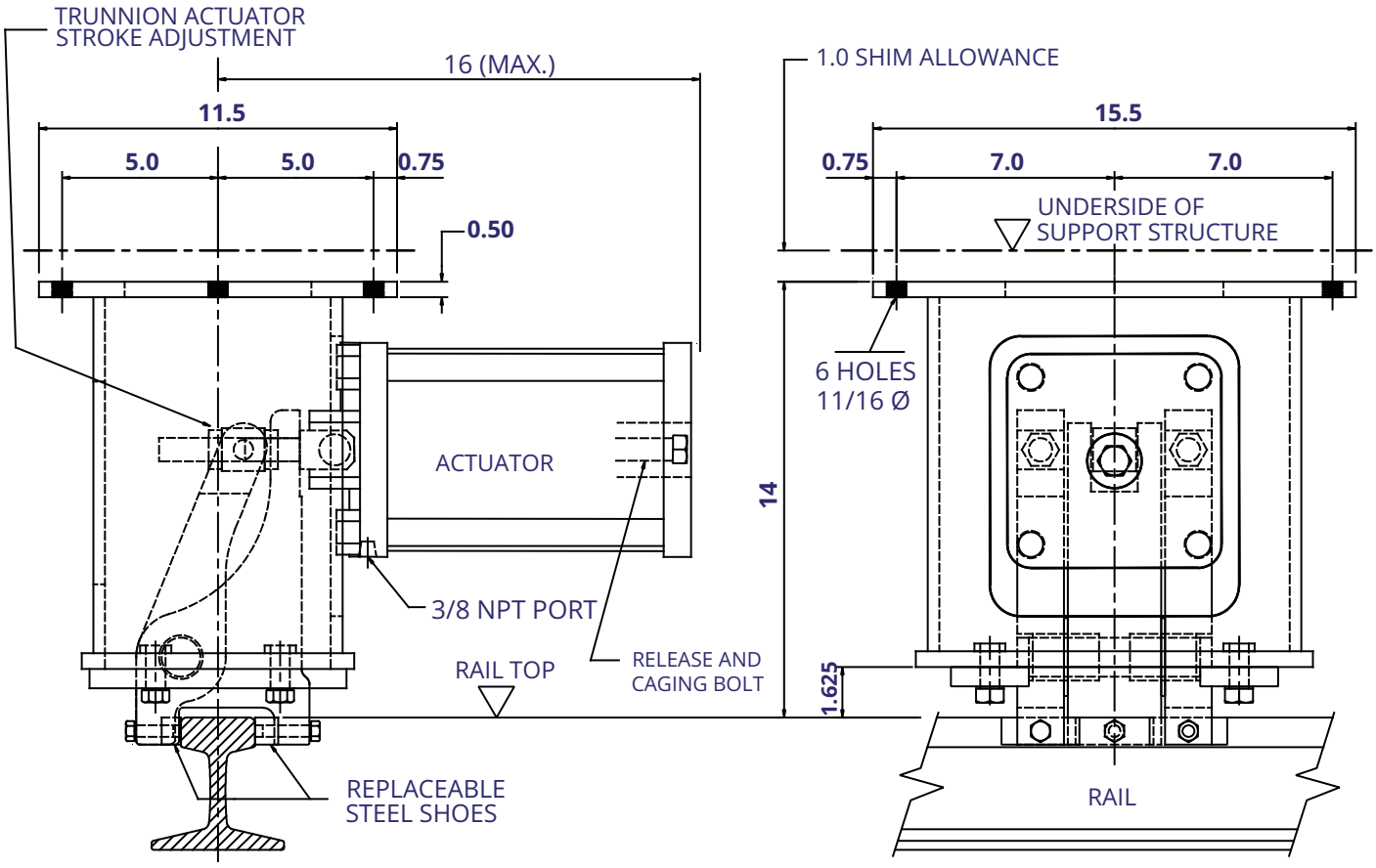
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TRB002A / TRB002H Tripper Rail Clamp

DRAWING
TRB01-02.0



Specifications

Imperial (in., lb, psi)

- DIMENSIONS: INCHES
- Spring set / air or hydraulic release
- Trunnion actuator stroke adjustment; release and caging bolt
- Replaceable steel shoes
- Maximum shoe wear 0.19 in per shoe
- Nominal rating quoted at 0.1 friction coefficient and 1 in actuator stroke
- 1.0 in shim allowance; mounts to underside of support structure

Model	Release type	Actuator stroke working range	Max actuator stroke	Max shoe wear per shoe	Nominal rating (dynamic)	Hydraulic release psi	Hydraulic hold-off psi	Hydraulic max psi	Air release psi	Air hold-off psi	Air max psi	Assembly lateral float	Approx. weight lb	Port	Mounting holes	Overall height
TRB002H	Spring set, hydraulic release	0.25" to 1"	3"	0.19"	1650 lb	1125	1000	2000	—	—	—	+/– 0.75"	190	3/8 NPT	6 holes 11/16 Ø	14 in
TRB002A	Spring set, air release	0.25" to 1"	3"	0.19"	1650 lb	—	—	—	105	95	120	+/– 0.75"	190	3/8 NPT	6 holes 11/16 Ø	14 in

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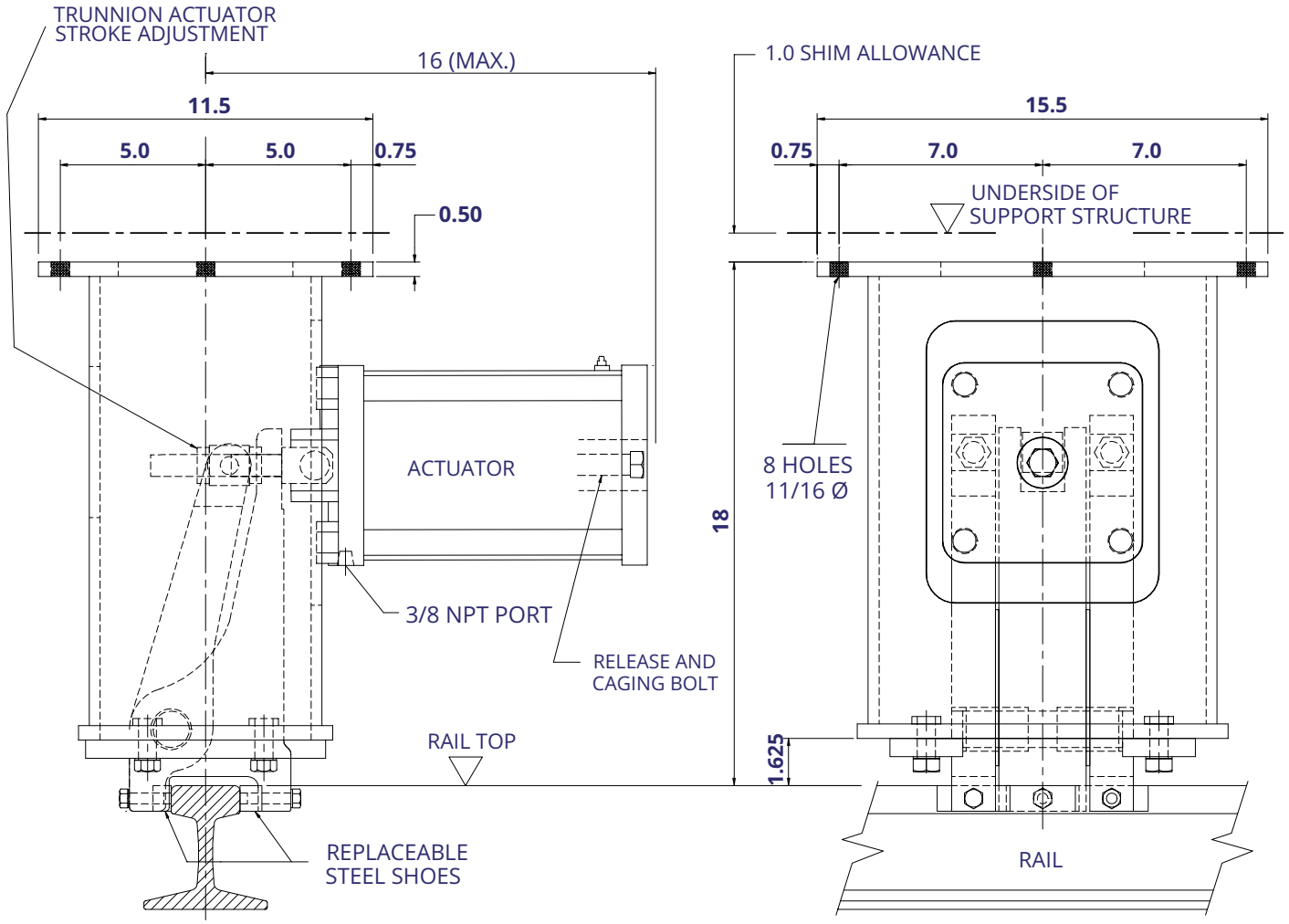
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TRB003A / TRB003H Tripper Rail Clamp

DRAWING
TRB01-03.0



Specifications

Imperial (in., lb, psi)

- DIMENSIONS: INCHES
- Spring set / air or hydraulic release
- Trunnion actuator stroke adjustment; release and caging bolt
- Replaceable steel shoes
- Maximum shoe wear 0.19 in per shoe
- Nominal rating quoted at 0.1 friction coefficient and 1 in actuator stroke
- 1.0 in shim allowance; mounts to underside of support structure

Model	Release type	Actuator stroke working range	Max actuator stroke	Max shoe wear per shoe	Nominal rating (dynamic)	Hydraulic release psi	Hydraulic hold-off psi	Hydraulic max psi	Air release psi	Air hold-off psi	Air max psi	Assembly lateral float	Approx. weight lb	Port	Mounting holes	Overall height
TRB003H	Spring set, hydraulic release	0.375" to 1.25"	2.25"	0.19"	2000 lb	910	865	2000	—	—	—	+/− 0.75"	220	3/8 NPT	8 holes 11/16 Ø	18 in
TRB003A	Spring set, air release	0.375" to 1.25"	2.25"	0.19"	2000 lb	—	—	—	99	92	120	+/− 0.75"	220	3/8 NPT	8 holes 11/16 Ø	18 in

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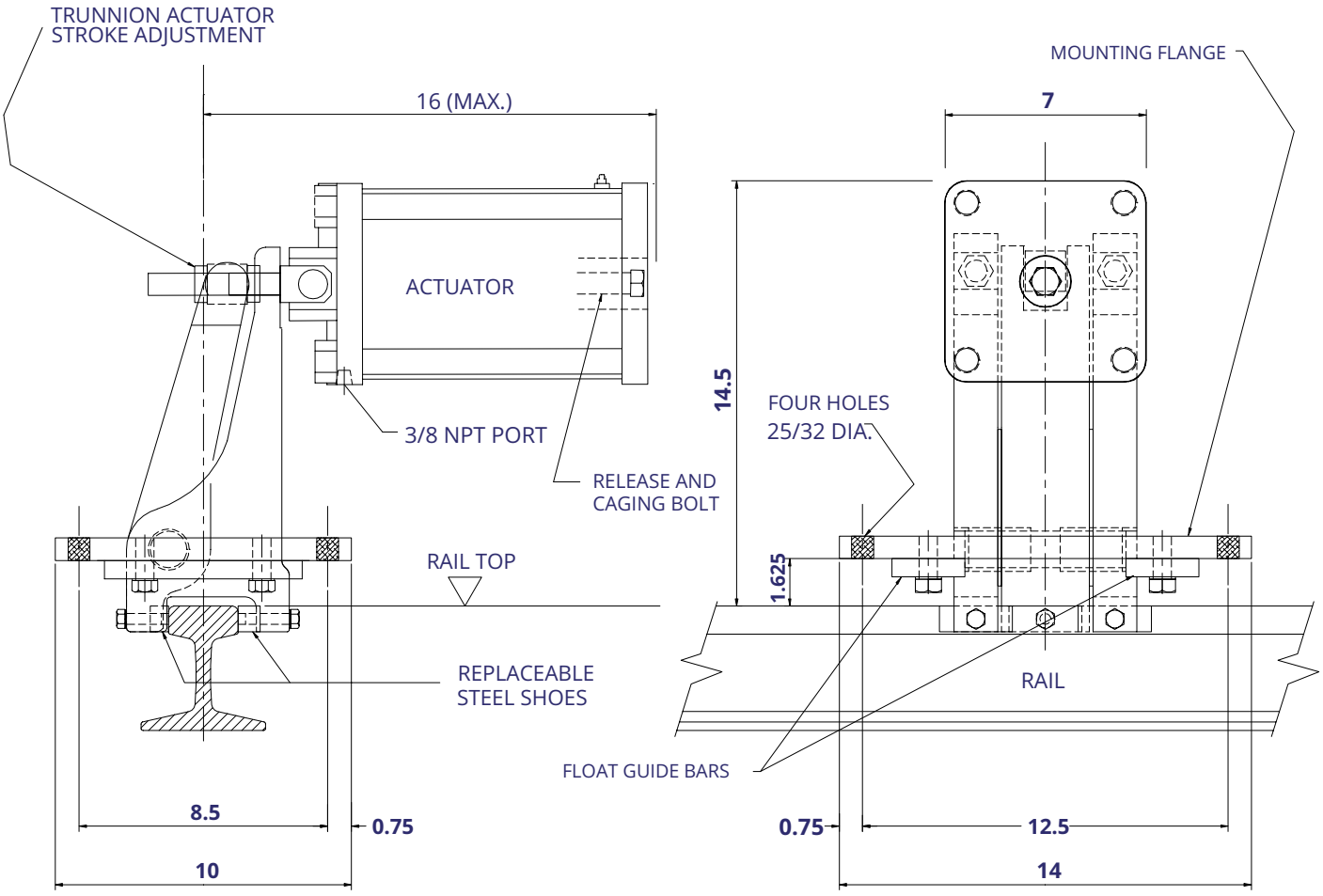
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TRF003A / TRF003H Tripper Rail Clamp

(flange mounted)

DRAWING
TRF01-01.0



Specifications

Imperial (in., lb, psi)

- Spring set / air or hydraulic release
- Trunnion actuator stroke adjustment; release and caging bolt
- Replaceable steel shoes
- Maximum shoe wear 0.19 in per shoe
- Nominal rating quoted at 0.1 friction coefficient and 1 in actuator stroke
- Dimensions in inches
- Mounting flange with float guide bars

Model	Release type	Actuator stroke working range	Max actuator stroke	Max shoe wear per shoe	Nominal rating (dynamic)	Hydraulic release psi	Hydraulic hold-off psi	Hydraulic max psi	Air release psi	Air hold-off psi	Air max psi	Assembly lateral float	Approx. weight lb	Port
TRF003H	Spring set, hydraulic release	0.375" to 1.25"	2.25"	0.19"	2000 lb	910	865	2000	—	—	—	+/− 0.50"	160	3/8 NPT
TRF003A	Spring set, air release	0.375" to 1.25"	2.25"	0.19"	2000 lb	—	—	—	99	92	120	+/− 0.50"	160	3/8 NPT

Model	Mounting holes	Overall height
TRF003H	Four holes 25/32 dia.	14.5 in
TRF003A	Four holes 25/32 dia.	14.5 in

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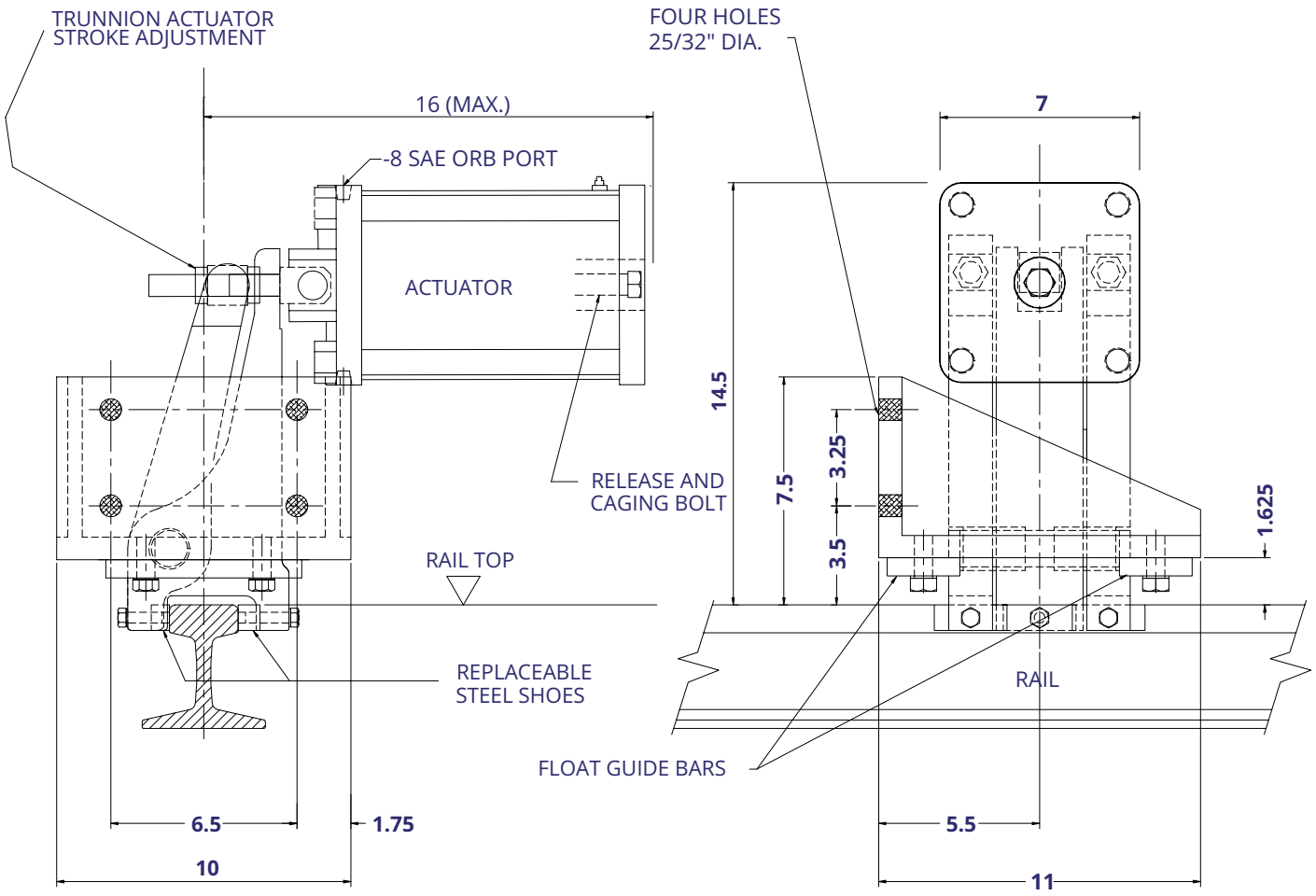
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TRT003A / TRT003H Tripper Rail Clamp

DRAWING
TRT01-01.1



Specifications

Imperial (in., lb, psi)

- Spring set / air or hydraulic release
- Trunnion actuator stroke adjustment; release and caging bolt
- Replaceable steel shoes
- Maximum shoe wear 0.19 in per shoe
- Nominal rating quoted at 0.1 friction coefficient and 1 in actuator stroke
- Dimensions in inches
- Float guide bars

Model	Release type	Actuator stroke working range	Max actuator stroke	Max shoe wear per shoe	Nominal rating (dynamic)	Hydraulic release psi	Hydraulic hold-off psi	Hydraulic max psi	Air release psi	Air hold-off psi	Air max psi	Assembly lateral float	Approx. weight lb	Port
TRT003H	Spring set, hydraulic release	0.375" to 1.25"	2.25"	0.19"	2000 lb	910	865	2000	—	—	—	+/− 0.50"	160	−8 SAE ORB
TRT003A	Spring set, air release	0.375" to 1.25"	2.25"	0.19"	2000 lb	—	—	—	99	92	120	+/− 0.50"	160	−8 SAE ORB

Model	Mounting holes	Overall height
TRT003H	Four holes 25/32" dia.	14.5 in
TRT003A	Four holes 25/32" dia.	14.5 in

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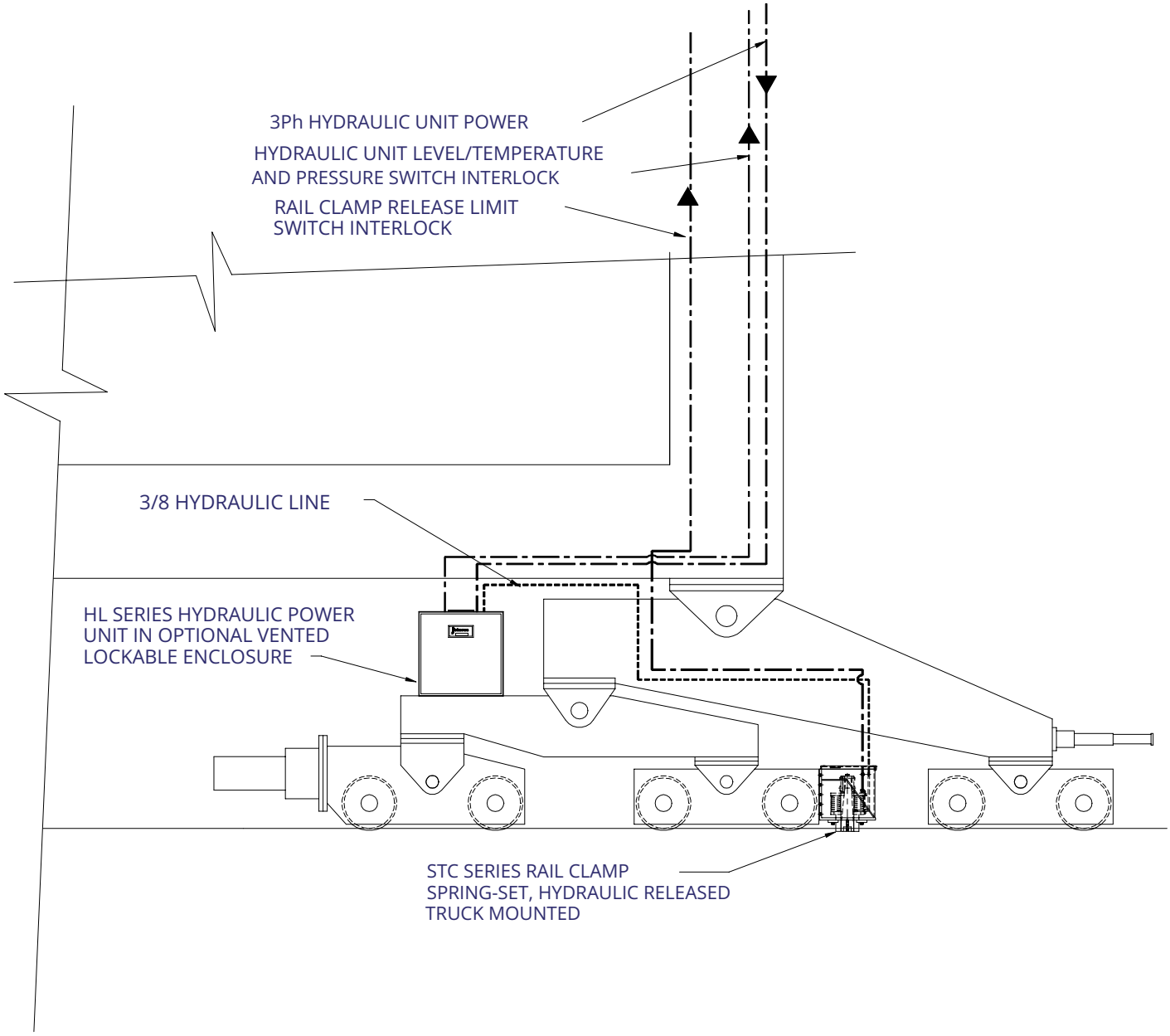
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STC Rail Clamp System

Spring-set, air released · typical 24-wheel container crane

DRAWING
RLC04-1.0



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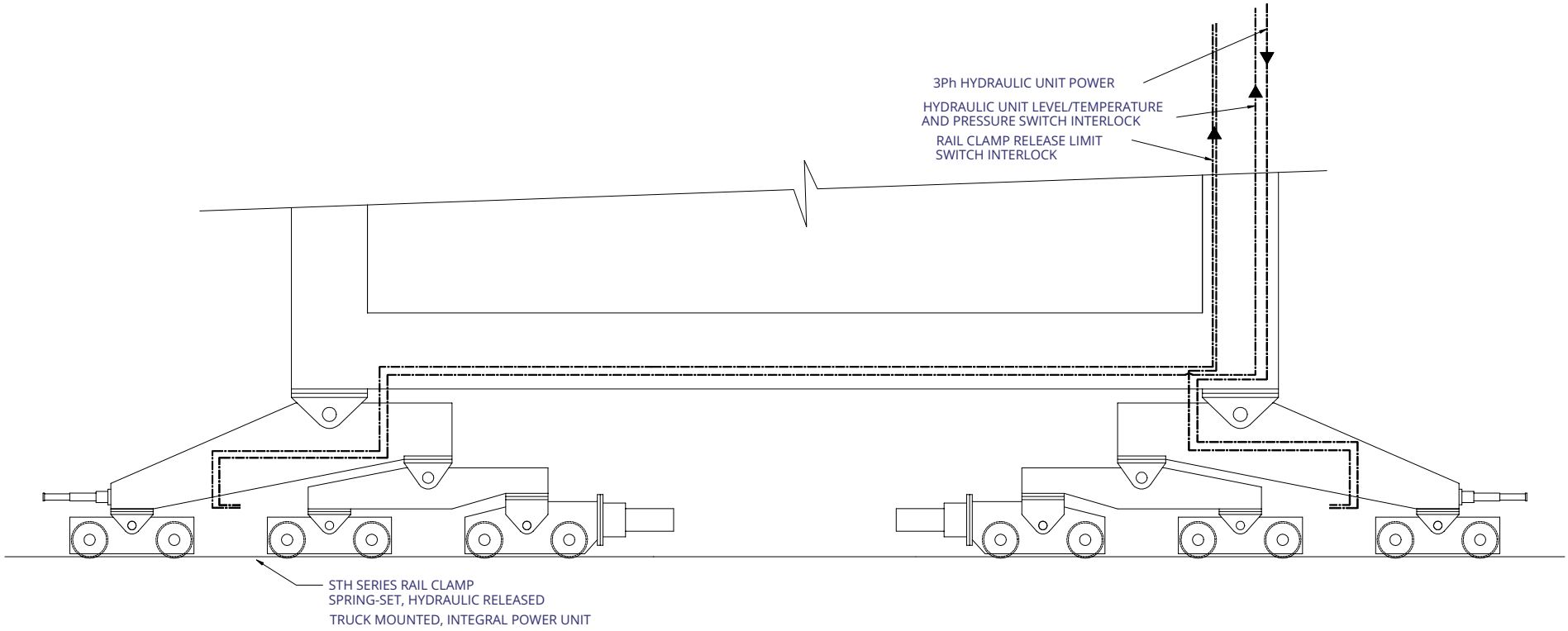
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STH Rail Clamp System

Spring-set, hydraulic released · typical 24-wheel container crane

DRAWING
RLC05-1.1



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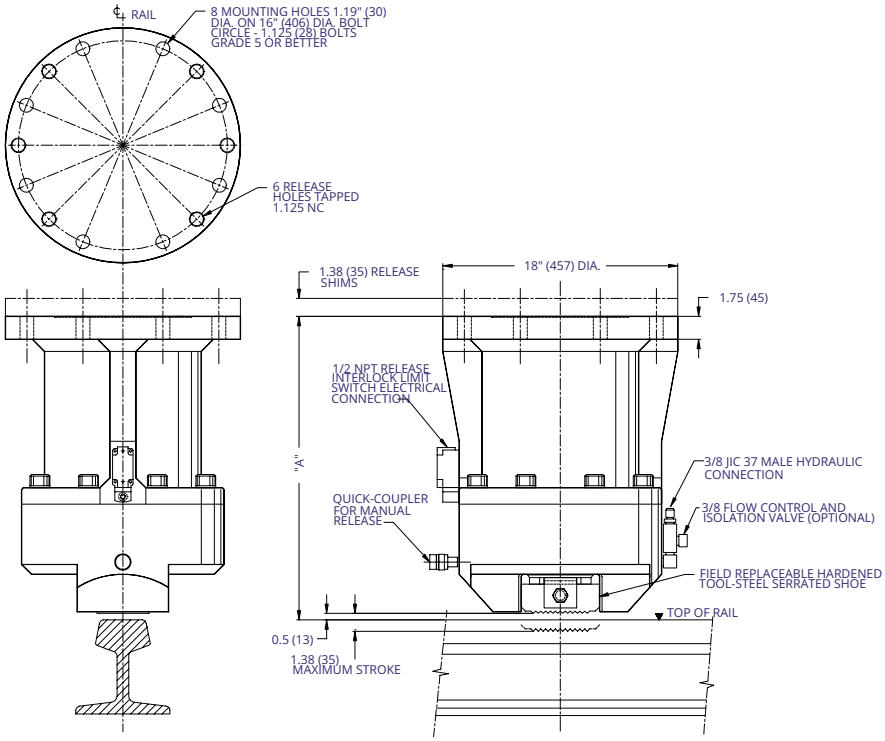
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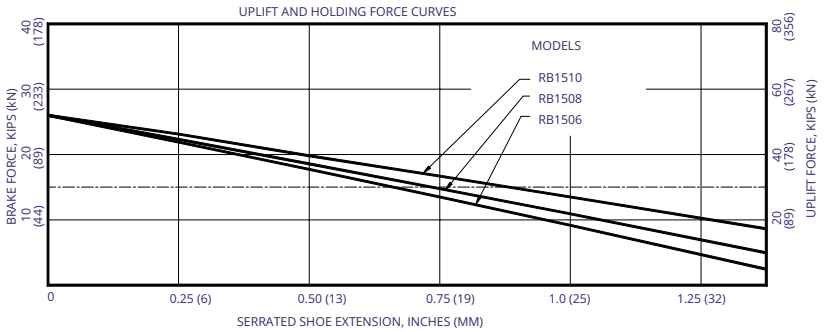
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RB1500 Static Holding Rail Brakes

DRAWING
RB1500-01.0





Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle (static holding rail brakes)
- 8 mounting holes 1.19 in (30 mm) dia. on 16 in (406 mm) dia. bolt circle — 1.125 in (28 mm) bolts grade 5 or better
- 6 release holes tapped 1.125 NC
- 18 in (457 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB1506	17.00 (432)	640 (291)	660 (45)	600 (41)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	80% (fatigue life unpredictable)
RB1508	18.00 (457)	668 (304)	660 (45)	600 (41)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	80% (fatigue life unpredictable)
RB1510	19.00 (482)	696 (316)	660 (45)	600 (41)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	80% (fatigue life unpredictable)

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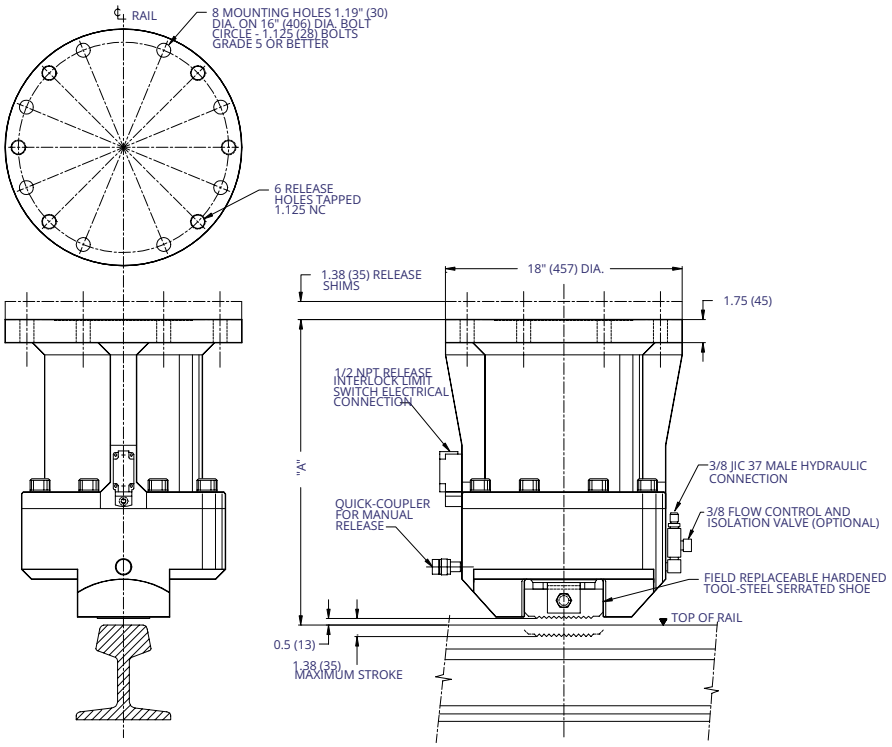
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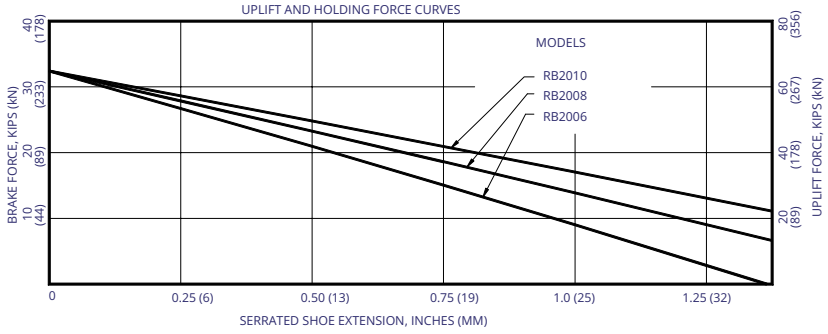
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RB2000 Static Holding Rail Brakes

DRAWING
RB2000-01.0





Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle (static holding rail brakes)
- 8 mounting holes 1.19 in (30 mm) dia. on 16 in (406 mm) dia. bolt circle — 1.125 in (28 mm) bolts grade 5 or better
- 18 in (457 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing
- 6 release holes tapped 1.125 NC

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB2006	17.00 (432)	640 (291)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB2008	18.00 (457)	668 (304)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB2010	19.00 (482)	696 (316)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)

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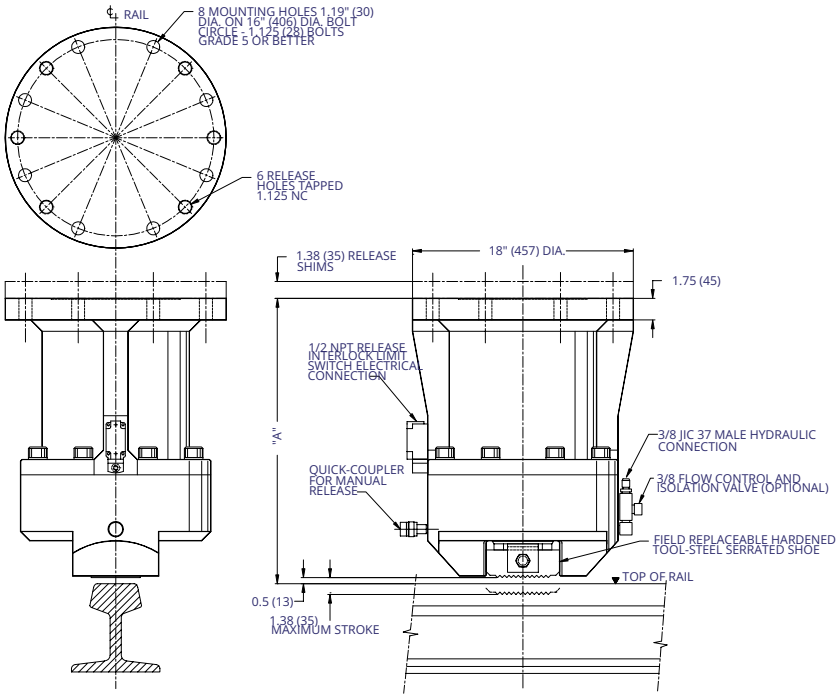
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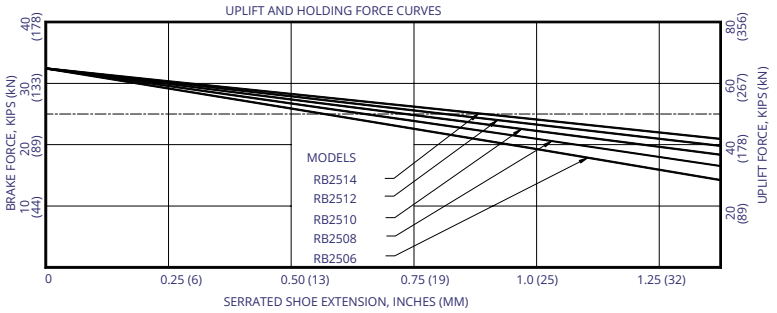
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RB2500 Static Holding Rail Brakes

DRAWING
RB2500-01.0





Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle (static holding rail brakes)
- 8 mounting holes 1.19 in (30 mm) dia. on 16 in (406 mm) dia. bolt circle — 1.125 in (28 mm) bolts grade 5 or better
- 6 release holes tapped 1.125 NC
- 18 in (457 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB2506	21.00 (533)	752 (342)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB2508	22.00 (559)	780 (355)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB2510	23.50 (597)	822 (375)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB2512	24.50 (622)	850 (386)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB2514	26.00 (660)	892 (405)	820 (56)	750 (51)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)

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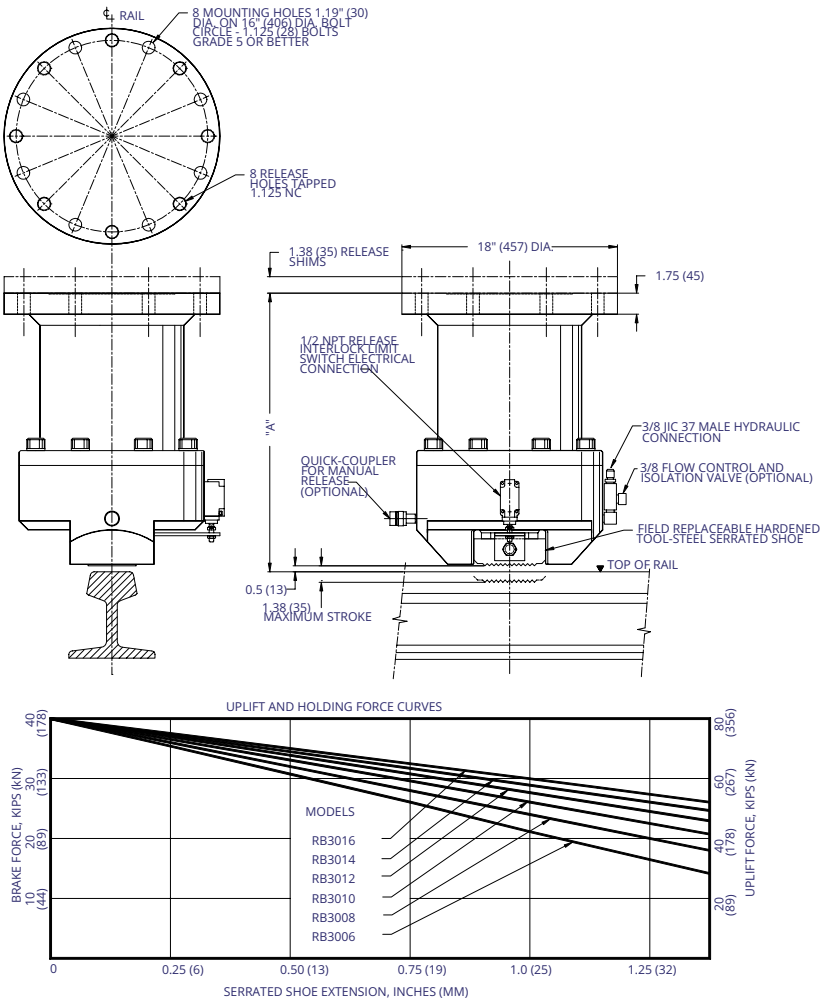
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RB3000 Static Holding Rail Brakes

DRAWING
RB3000-01.1



Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle (static holding rail brakes)
- 8 mounting holes 1.19 in (30 mm) dia. on 16 in (406 mm) dia. bolt circle — 1.125 in (28 mm) bolts grade 5 or better
- 18 in (457 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing
- 8 release holes tapped 1.125 NC
- Quick-coupler for manual release is optional on this range

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB3006	20.00 (508)	724 (330)	1000 (68)	940 (64)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB3008	22.00 (559)	780 (355)	1000 (68)	940 (64)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB3010	23.50 (597)	822 (375)	1000 (68)	940 (64)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB3012	24.50 (622)	850 (375)	1000 (68)	940 (64)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB3014	26.00 (660)	892 (405)	1000 (68)	940 (64)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB3016	27.00 (686)	920 (420)	1000 (68)	940 (64)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)

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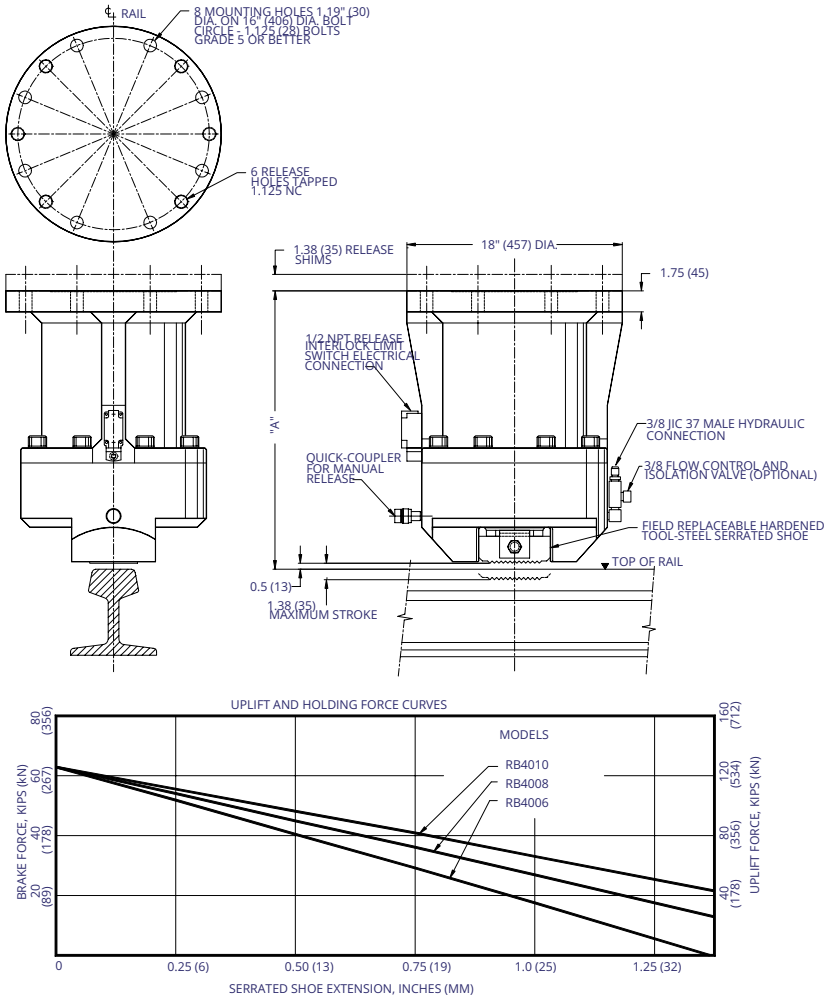
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RB4000 Static Holding Rail Brakes

DRAWING
RB4000-01.0



Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle (static holding rail brakes)
- 8 mounting holes 1.19 in (30 mm) dia. on 16 in (406 mm) dia. bolt circle — 1.125 in (28 mm) bolts grade 5 or better
- 6 release holes tapped 1.125 NC
- 18 in (457 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB4006	21.00 (534)	752 (342)	1600 (109)	1510 (103)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB4008	23.50 (597)	822 (374)	1600 (109)	1510 (103)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB4010	26.00 (660)	892 (405)	1600 (109)	1510 (103)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)

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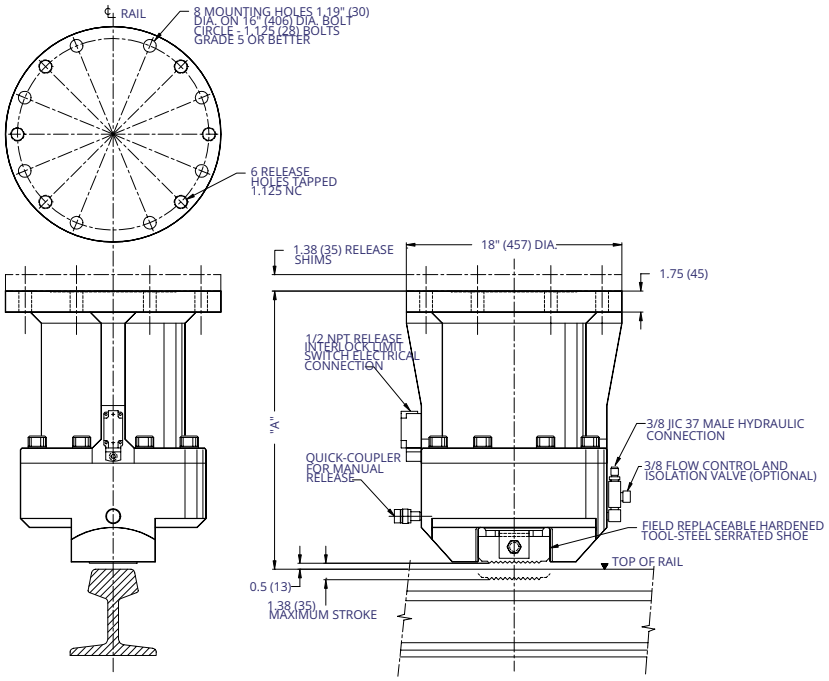
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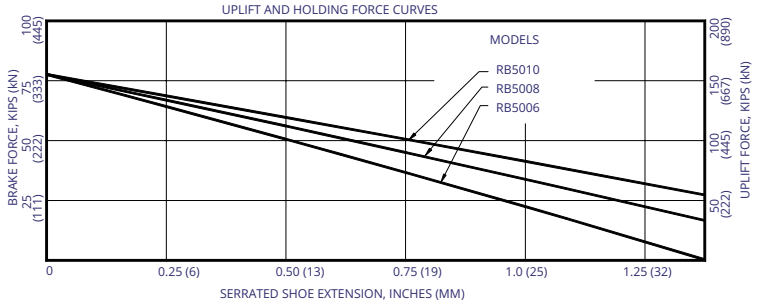
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RB5000 Static Holding Rail Brakes

DRAWING
RB5000-01.4





Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle (static holding rail brakes)
- 8 mounting holes 1.19 in (30 mm) dia. on 16 in (406 mm) dia. bolt circle — 1.125 in (28 mm) bolts grade 5 or better
- 6 release holes tapped 1.125 NC
- 18 in (457 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB5006	22.00 (559)	780 (355)	1950 (133)	1850 (126)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB5008	24.50 (622)	850 (386)	1950 (133)	1850 (126)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB5010	27.00 (686)	990 (450)	1950 (133)	1850 (126)	3000 (204)	120 cu.in. (2 litre)	+/− 1 (25)	75% (fatigue life unpredictable)

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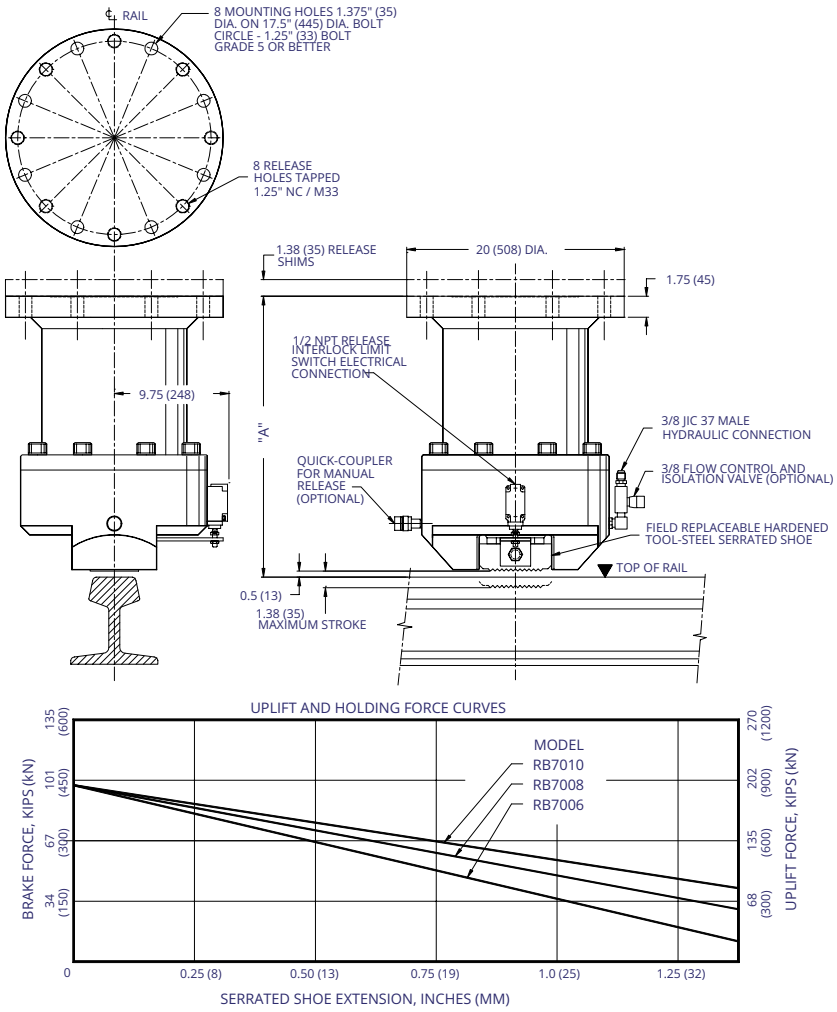
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RB7000 Static Holding Rail Brakes

DRAWING
RB7000-01.1



Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle
- 8 mounting holes 1.375 in (35 mm) dia. on 17.5 in (445 mm) dia. bolt circle — 1.25 in (33 mm) bolt grade 5 or better
- 8 release holes tapped 1.25 in NC / M33
- 20 in (508 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- Body width 9.75 in (248 mm)
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release (optional)
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB7006	24.0 (610)	1110 (505)	2200 (150)	2100 (143)	3000 (204)	180 cu.in. (3.0 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB7008	27.0 (686)	1210 (550)	2200 (150)	2100 (143)	3000 (204)	180 cu.in. (3.0 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB7010	30.0 (762)	1400 (638)	2200 (150)	2100 (143)	3000 (204)	180 cu.in. (3.0 litre)	+/− 1 (25)	75% (fatigue life unpredictable)

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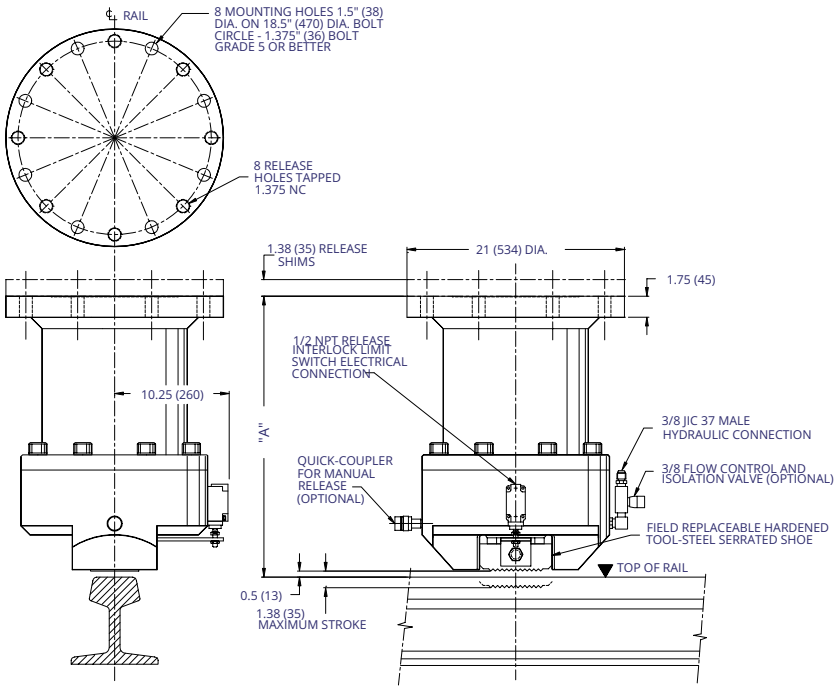
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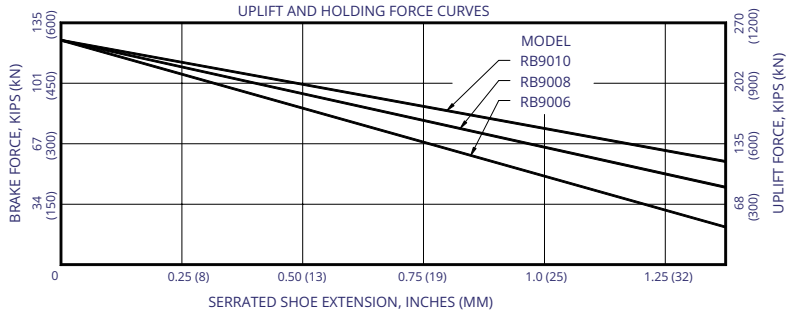
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RB9000 Static Holding Rail Brakes

DRAWING
RB9000-01.1





Specifications

Dual imperial / metric (in./mm, lb/kg, psi/bar)

- Spring set, hydraulic released — low duty cycle
- 8 mounting holes 1.5 in (38 mm) dia. on 18.5 in (470 mm) dia. bolt circle — 1.375 in (36 mm) bolt grade 5 or better
- 8 release holes tapped 1.375 NC
- 21 in (534 mm) dia. body; 1.38 in (35 mm) release shims; 1.38 in (35 mm) maximum stroke
- Body width 10.25 in (260 mm)
- 1/2 NPT release interlock limit switch electrical connection
- 3/8 JIC 37 male hydraulic connection; 3/8 flow control and isolation valve (optional)
- Quick-coupler for manual release (optional)
- Field replaceable hardened tool-steel serrated shoe
- Uplift and holding force curves are given against serrated shoe extension on the drawing

Model	Height A in. (mm)	Weight lb (kg)	Release psi (bar)	Hold-off psi (bar)	Maximum psi (bar)	Max release volume	Max lateral float in. (mm)	Max spring deflection retracted
RB9006	24.5 (622)	1350 (614)	2400 (163)	2300 (156)	3000 (204)	210 cu.in. (3.5 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB9008	28.0 (711)	1470 (668)	2400 (163)	2300 (156)	3000 (204)	210 cu.in. (3.5 litre)	+/− 1 (25)	75% (fatigue life unpredictable)
RB9010	31.5 (800)	1710 (778)	2400 (163)	2300 (156)	3000 (204)	210 cu.in. (3.5 litre)	+/− 1 (25)	75% (fatigue life unpredictable)

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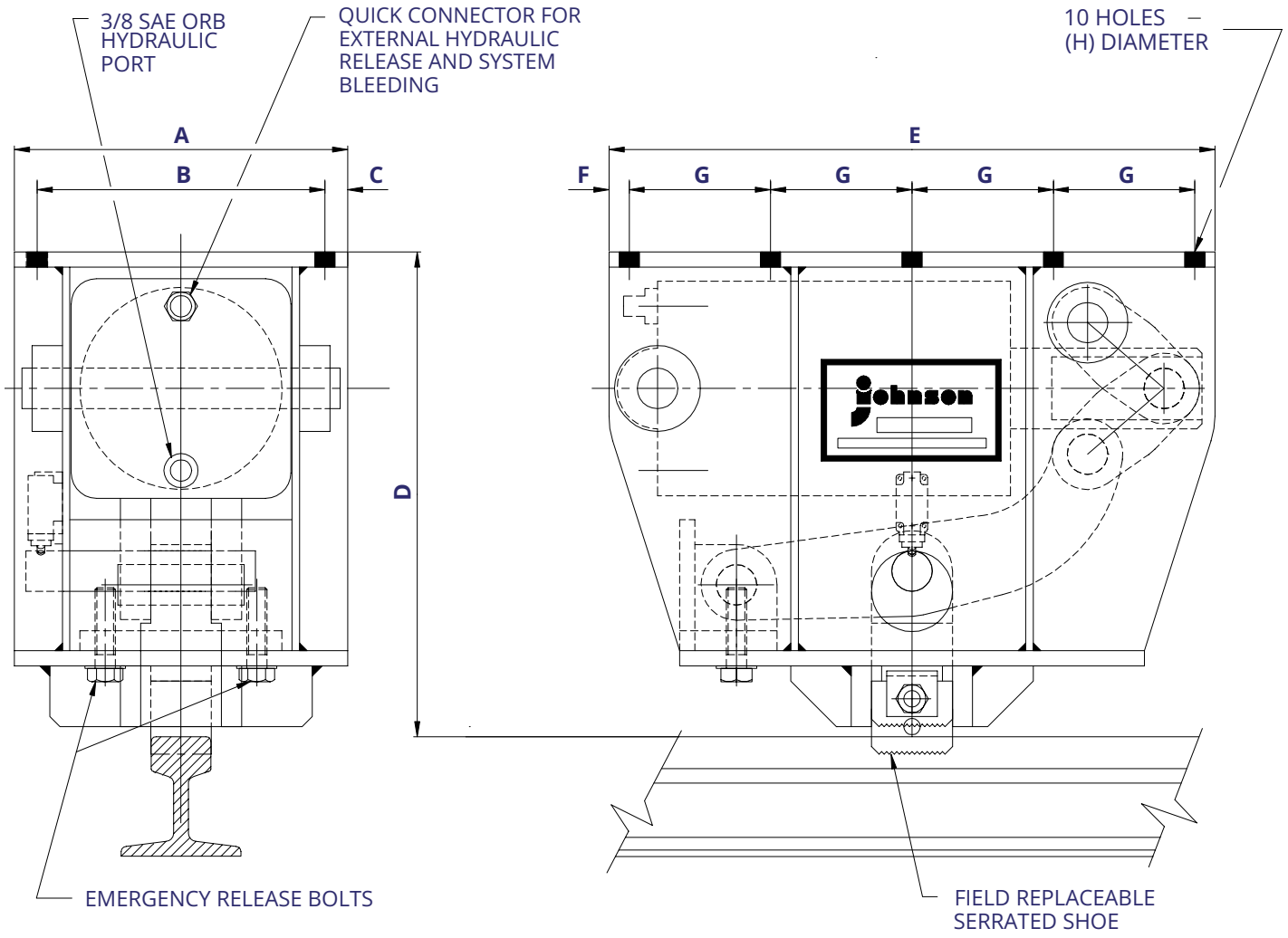
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RBB Series Rail Brakes

Brake Force Spring Compensated

DRAWING
RBB01-1.2



Specifications

Dual imperial / metric (lb/kN, in./mm, psi/MPa, in^3/cm^3)

- Spring-set, hydraulic pressure released
- Maximum operating pressure 2000 psi / 13800 kPa
- Toggle linkage spring force compensation
- 3/8 SAE ORB hydraulic port; quick connector for external hydraulic release and system bleeding
- Emergency release bolts; field replaceable serrated shoe
- 10 holes — (H) diameter

Model no.	Holding force lb/kN	Mounting bolt Ø in./mm	Approx. weight lb/kg	Release pressure psi/MPa	Hold-off pressure psi/MPa	Max volume in^3/cm^3	A	B	C	D	E	F	G	H
RBB20	20000 / 90	0.625 / 16	970 / 441	1100 / 7.6	1000 / 6.9	92 / 1510	15.25/387	13/330	1/25	22/559	25.5/648	0.75/19	6/152	0.75/19
RBB30	30000 / 134	0.75 / 20	1080 / 491	1200 / 8.3	1100 / 7.6	103 / 1690	16.5/419	14.25/362	1.125/29	24/610	30/762	1/25	7/178	0.88/22
RBB50	50000 / 224	1 / 27	1420 / 645	1400 / 9.7	1310 / 9.0	147 / 2410	21/533	18/457	1.5/39	28/711	38.5/978	1.25/32	9/229	1.13/29
RBB75	75000 / 336	1.25 / 32	1720 / 781	1400 / 9.7	1310 / 9.0	147 / 2410	26/660	22/559	2/51	30/762	42/1067	1.5/38	9.75/248	1.38/35

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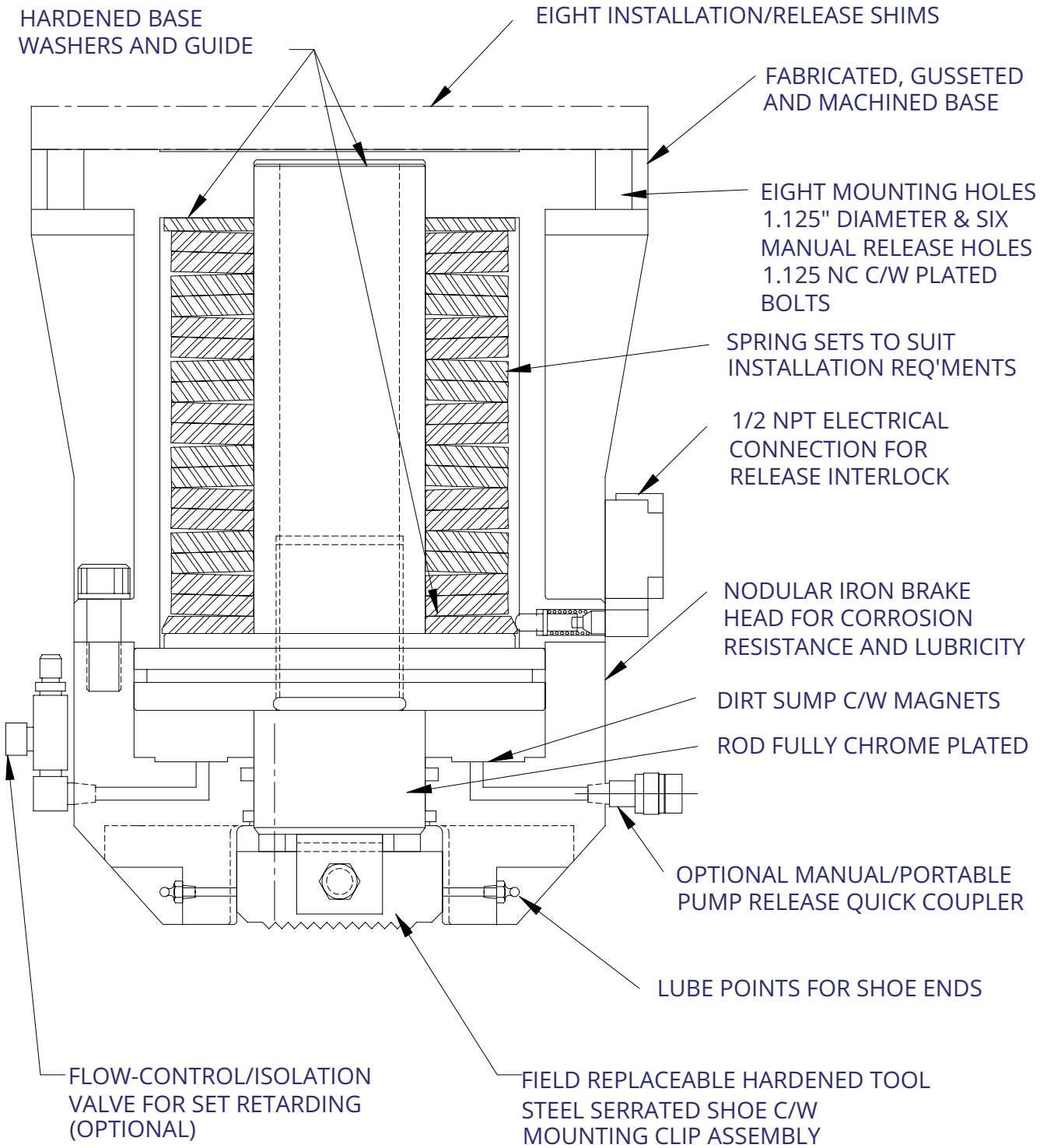
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RB Series Rail Brake Features

Spring-set, hydraulic release

DRAWING
RB5000-2.1



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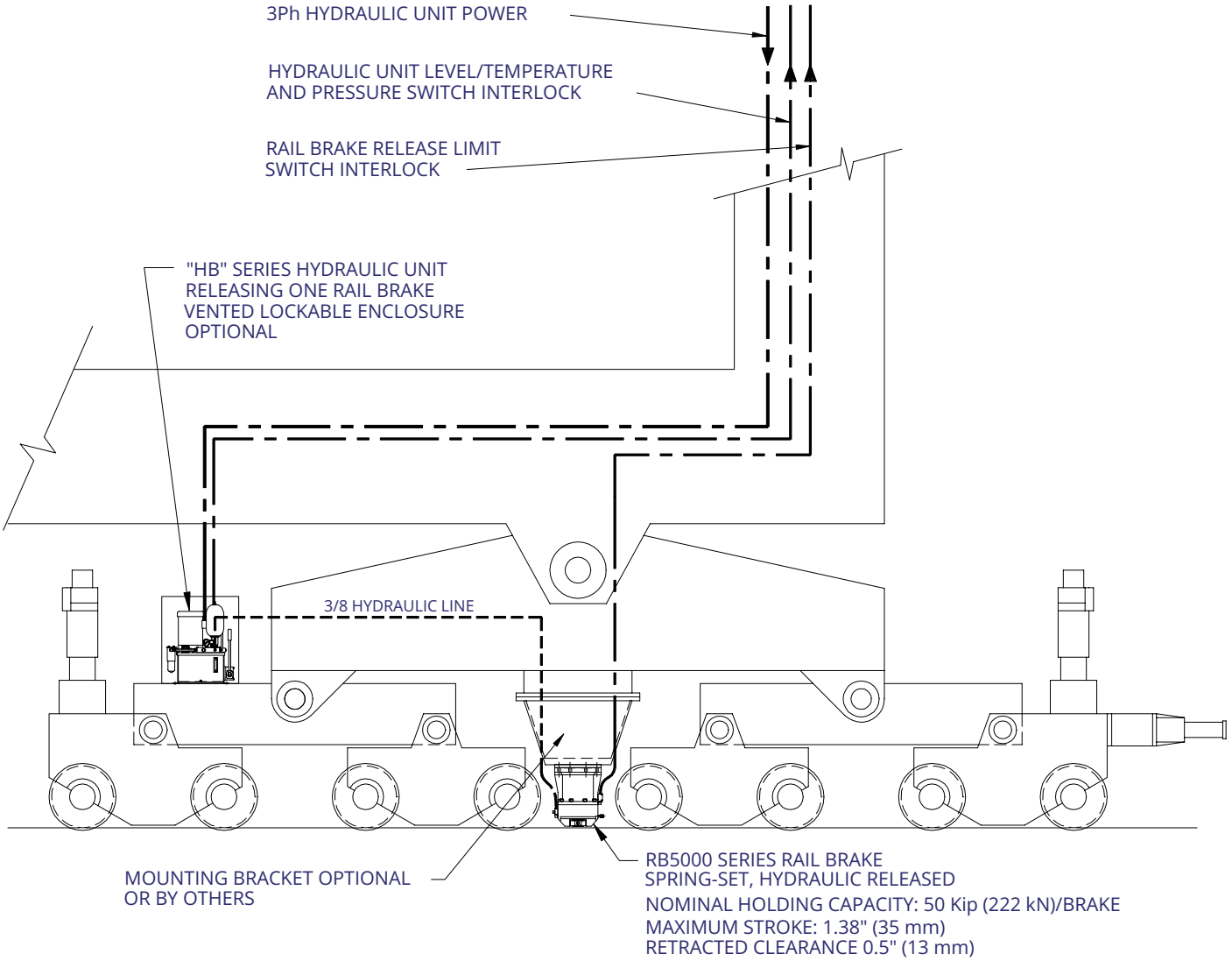
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RB5000 Static Rail Brake System

Spring-set, hydraulic release

DRAWING
RB-5000-03.0



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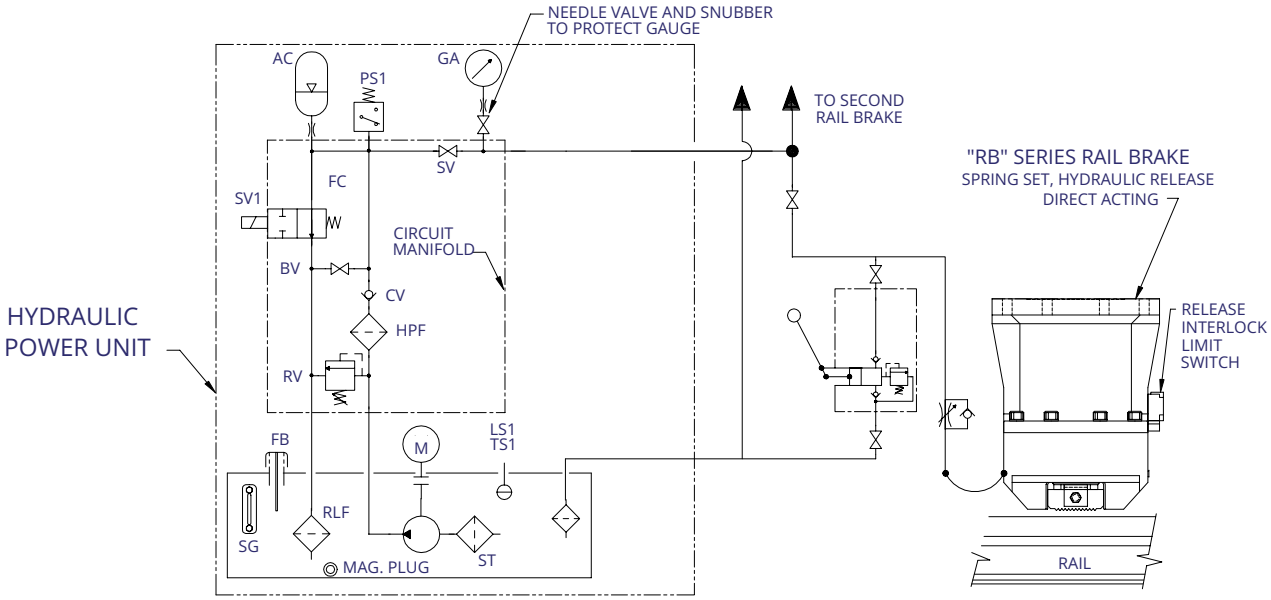
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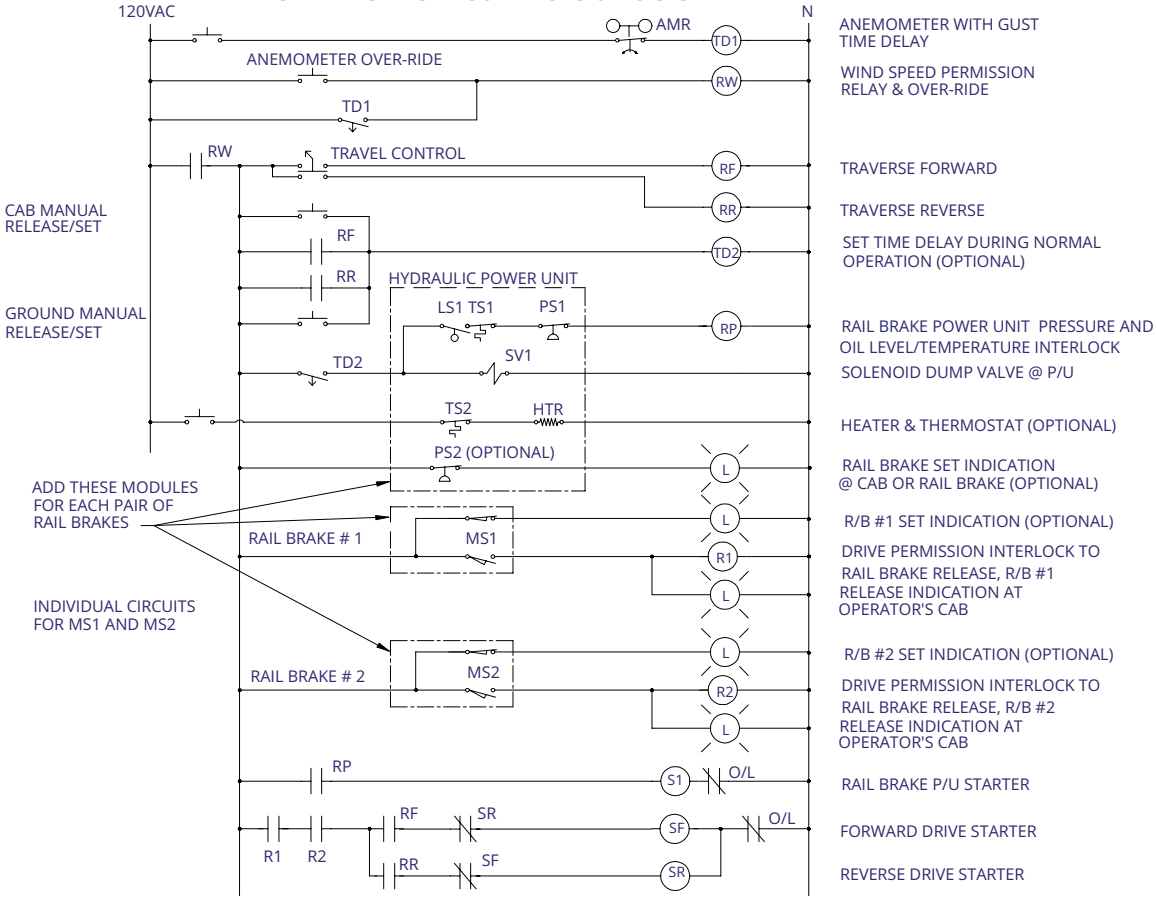
Rail Brake Release/Set Controls

Two rail brakes · one power unit · dual release circuits

DRAWING
RBC04-2.1



TYPICAL ELECTRICAL CONTROLS & LOGIC



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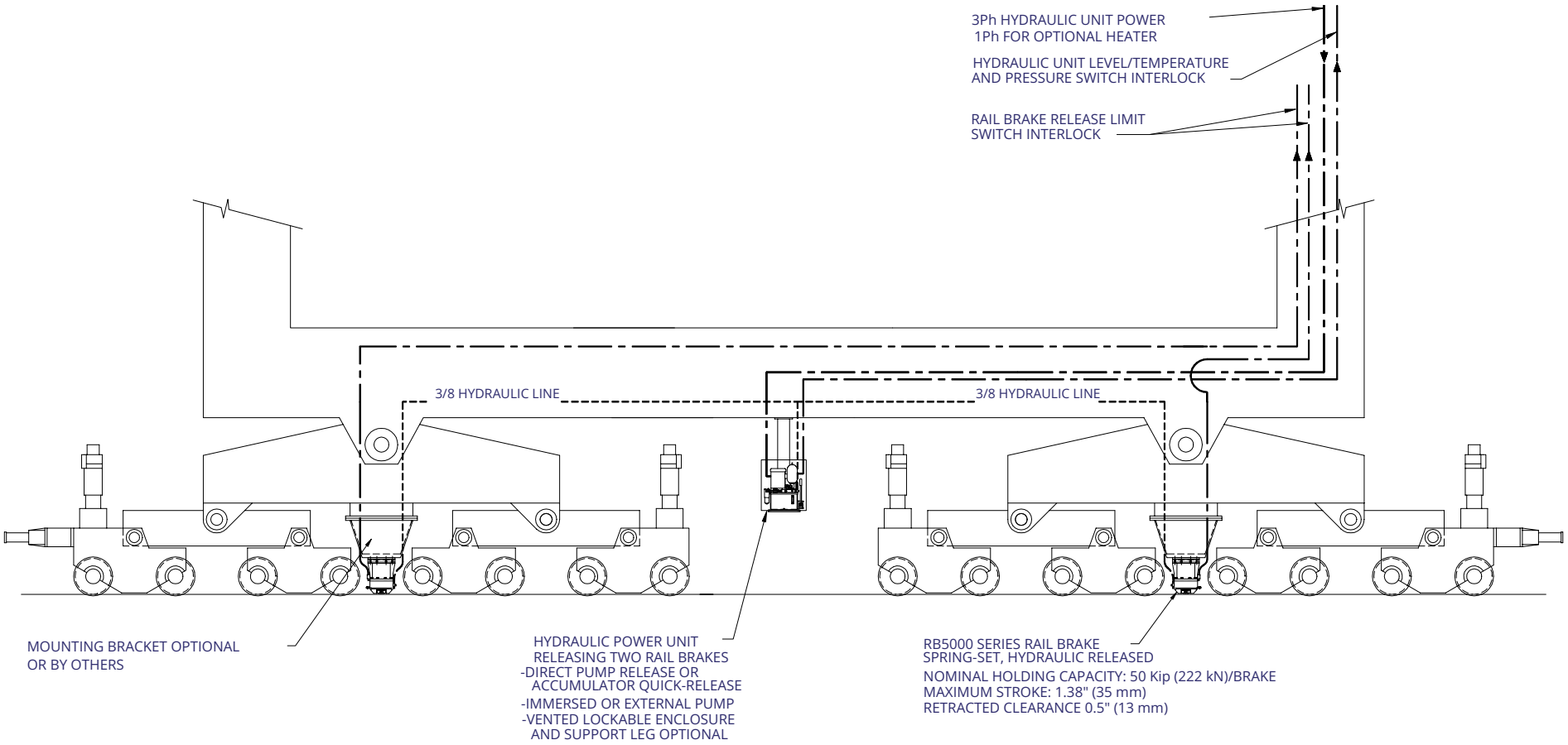
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RB5000 Static Rail Brake System

Typical 24-wheel container crane · one power unit, four rail brakes

DRAWING
RB-5000-04.1



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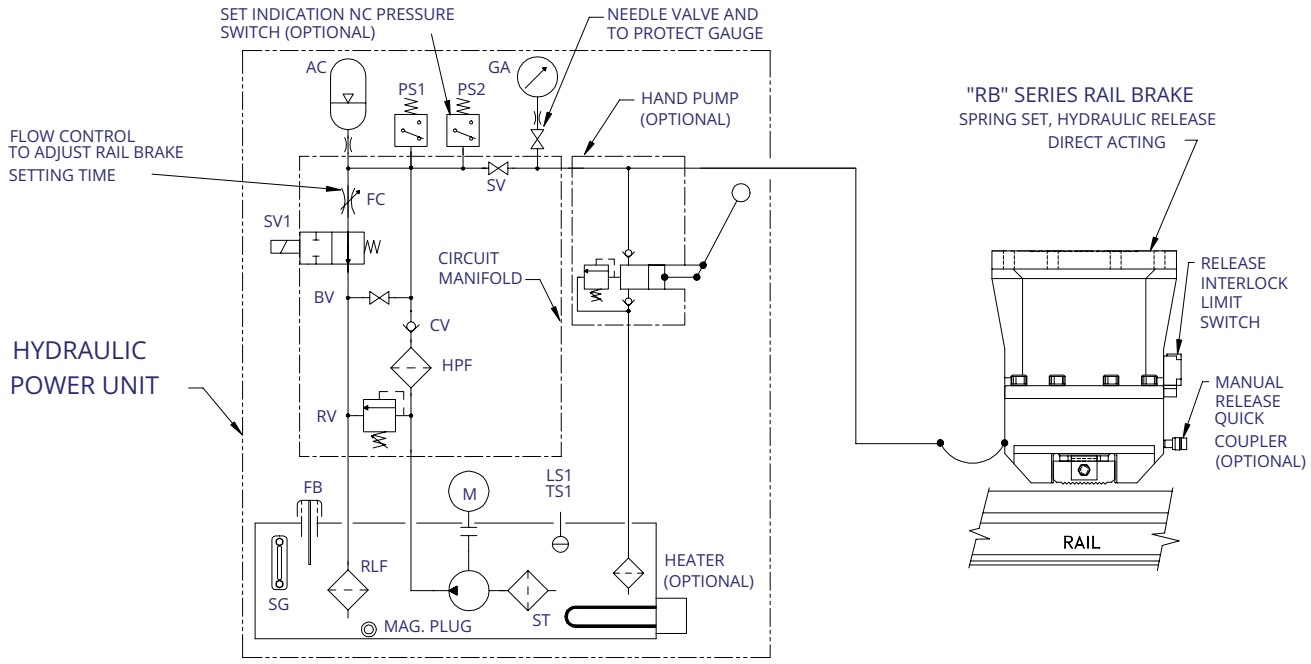
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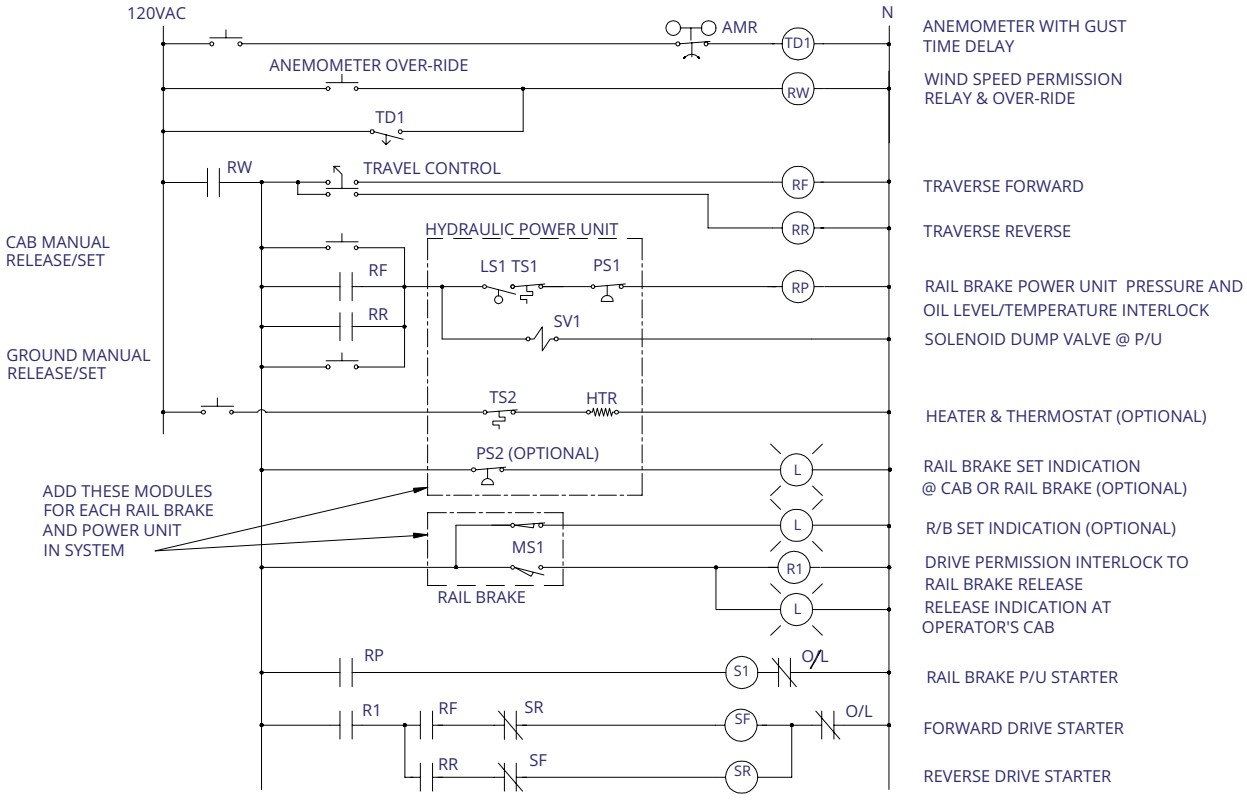
Rail Brake Release/Set Controls

One rail brake · one power unit

DRAWING
RBC05-2.0



TYPICAL ELECTRICAL CONTROLS & LOGIC



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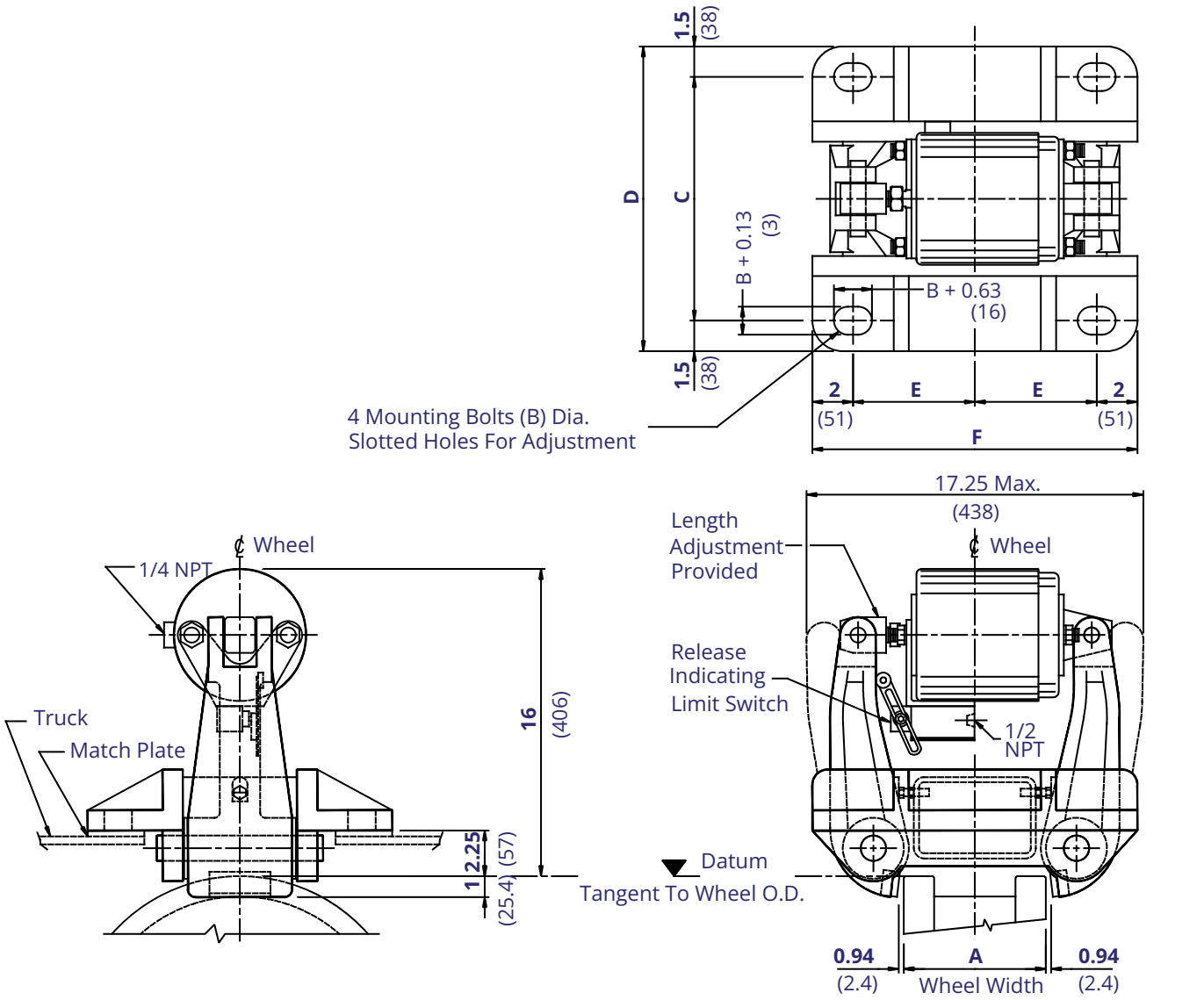
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Johnson Spring Set Wheel Clamps

Static or Dynamic Service

DRAWING
WC-01.4



Specifications

Dual imperial / metric (lb/N, psi/kPa, in³/cc, lb/kg, in./mm)

- Wheel clamps are spring-set, air or hydraulic released
- Serrated shoe is hardened steel; smooth shoe is hardened bronze alloy
- Maximum release pressures: 120 psi / 826 kPa air — 1800 psi / 12,400 kPa hydraulic
- 4 mounting bolts (B) dia., slotted holes for adjustment
- Length adjustment provided; release indicating limit switch
- 1/4 NPT air connection; 1/2 NPT electrical connection
- Datum tangent to wheel O.D.; 17.25 in (438 mm) max overall

Model no.	Holding force serrated shoes lb/N	Holding force smooth shoes lb/N	Air release psi/kPa	Air hold-off psi/kPa	Hydraulic release psi/kPa	Hydraulic hold-off psi/kPa	Air volume in³/cc	Hydraulic volume in³/cc	Weight lb/kg	Min A	Max A	B	C	D	E	F	Mounting bolt dia. in./mm
WC050	5000 / 22240	1700 / 7562	53 / 370	47 / 325	640 / 4410	570 / 3930	118 / 1930	7.5 / 123	130 / 59	6/152	7/178	0.75/20	11/279	14/356	5.5/140	15/381	0.75 / 20
WC075	7500 / 33600	2500 / 11120	68 / 470	62 / 430	820 / 5650	750 / 5170	118 / 1930	7.5 / 123	138 / 63	6/152	7/178	0.75/20	11/279	14/356	5.5/140	15/381	0.75 / 20
WC100	10000 / 44480	3400 / 15120	86 / 595	80 / 550	800 / 5510	725 / 5000	142 / 2330	11 / 180	175 / 80	7/178	8/203	1/25	12/305	15/381	6/152	16/406	1 / 27
WC150	15000 / 66720	5000 / 22240	98 / 675	92 / 640	1185 / 8160	1110 / 7650	142 / 2330	11 / 180	190 / 86	7/178	8/203	1/25	12/305	15/381	6/152	16/406	1 / 27

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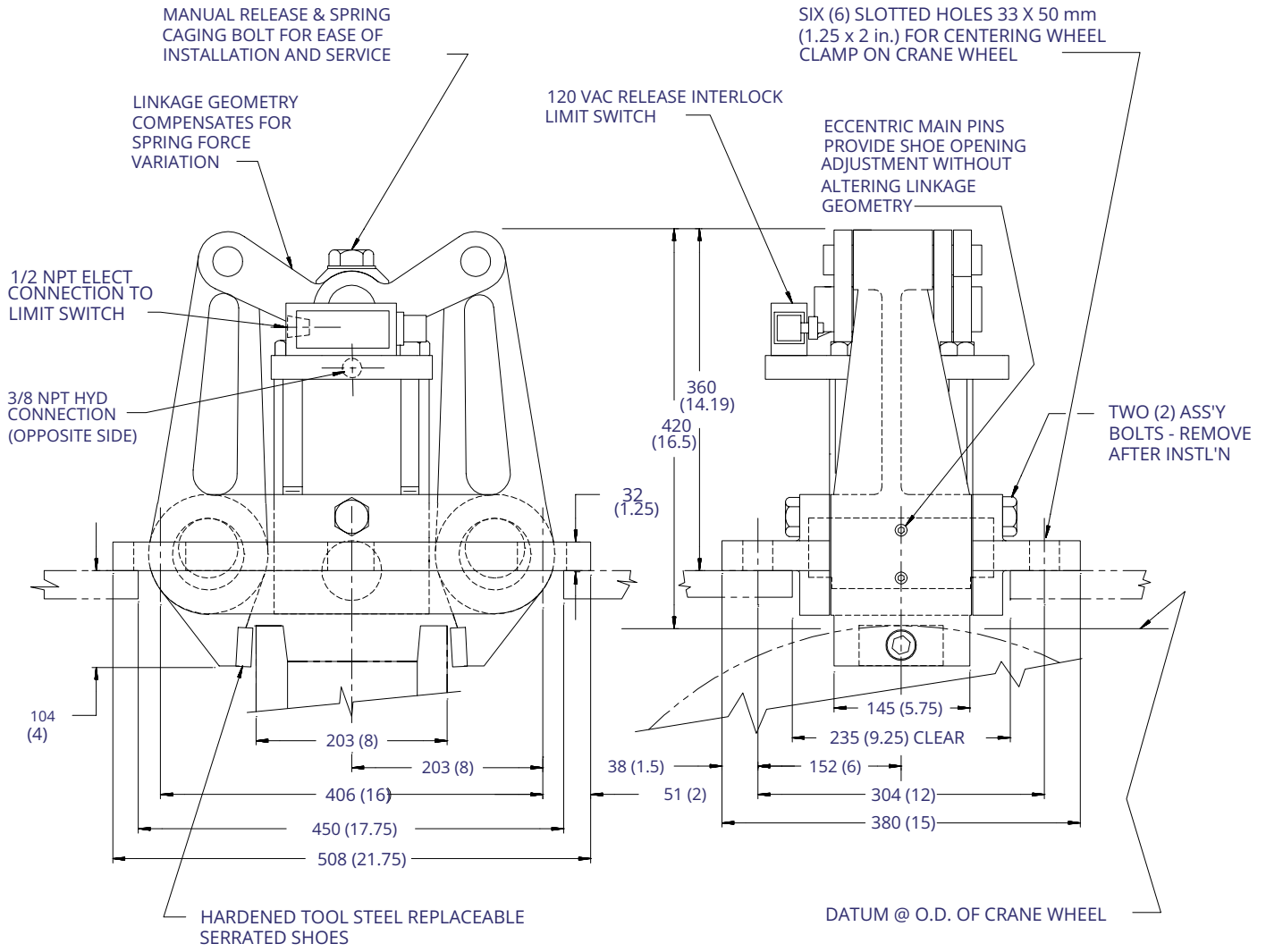
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WCL250 Wheel Clamp

Spring-set, hydraulic release

DRAWING
WC-02.0



Notes

- WHEEL CLAMP HOLDING FORCE = 25,000 LB = 112,000 N
- ACTUATION = SPRING-SET, HYDRAULIC RELEASE
- MIN RELEASE PRESSURE = 82 BAR (1200 PSI)
- MAX WORKING PRESSURE = 136 BAR (2000 PSI)

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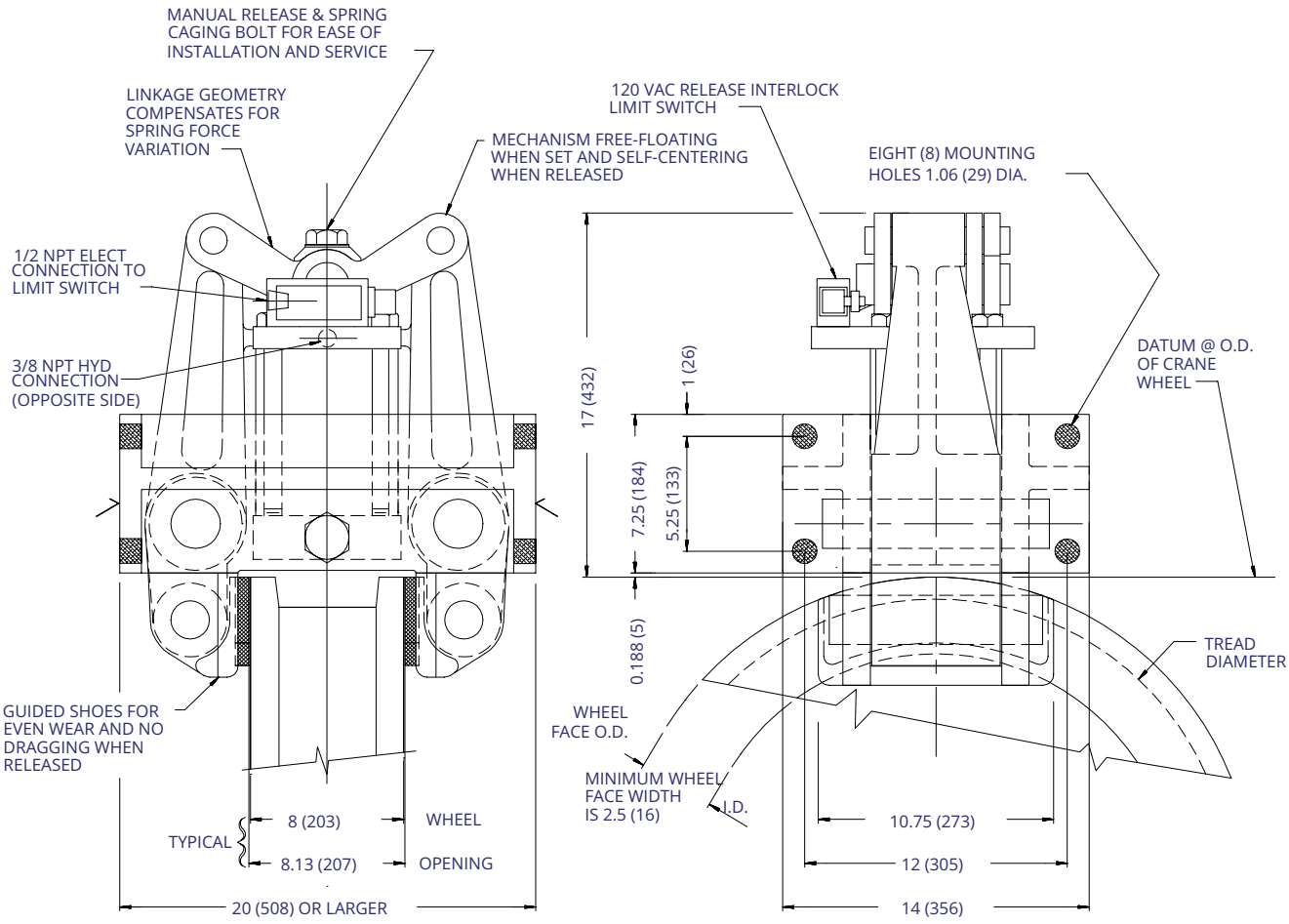
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WLB10B Dynamic Wheel Brake

Bogie Side-Plate Mounted

DRAWING
WLB10B-01.1



Specifications

Dual imperial / metric (lb/N, psi/bar, in./mm)

- Actuation: spring-set, hydraulic pressure released; varying spring force compensated for by toggle linkage
- BD = dynamic brake force @ friction pads = 12,500 lb (55,600 N)
- BS = static brake force @ friction pads = 10,000 lb (44,500 N)
- Brake forces at the rail (assuming no slipping or skidding):
- FD = dynamic brake force = (BD/2) × (wheel face O.D. + I.D.) / tread diameter, lb (N)
- FS = static brake force = (BS/2) × (wheel face O.D. + I.D.) / tread diameter, lb (N)
- Pressures: release 1300 psi (90 bar), hold-off 1200 psi (82 bar), max working 2000 psi (136 bar)
- Manual release & spring caging bolt for ease of installation and service
- Linkage geometry compensates for spring force variation
- Mechanism free-floating when set and self-centering when released
- Guided shoes for even wear and no dragging when released
- 120 VAC release interlock limit switch; 1/2 NPT electrical connection to limit switch
- 3/8 NPT hydraulic connection (opposite side)
- Minimum wheel face width is 2.5 in (16 mm)
- Datum @ O.D. of crane wheel
- Eight (8) mounting holes 1.06 in (29 mm) dia.
- Overall height 17 in (432 mm); wheel opening 8.13 in (207 mm) typical for 8 in (203 mm) wheel
- Overall width 20 in (508 mm) or larger; 14 in (356 mm) across mounting

Model	Actuation	BD dynamic brake force @ pads	BS static brake force @ pads	Release psi (bar)	Hold-off psi (bar)	Max working psi (bar)	Mounting	Overall height
WLB10B	Spring-set, hydraulic pressure released	12,500 lb (55,600 N)	10,000 lb (44,500 N)	1300 (90)	1200 (82)	2000 (136)	Bogie side-plate, 8 holes 1.06 in (29 mm) dia.	17 in (432 mm)

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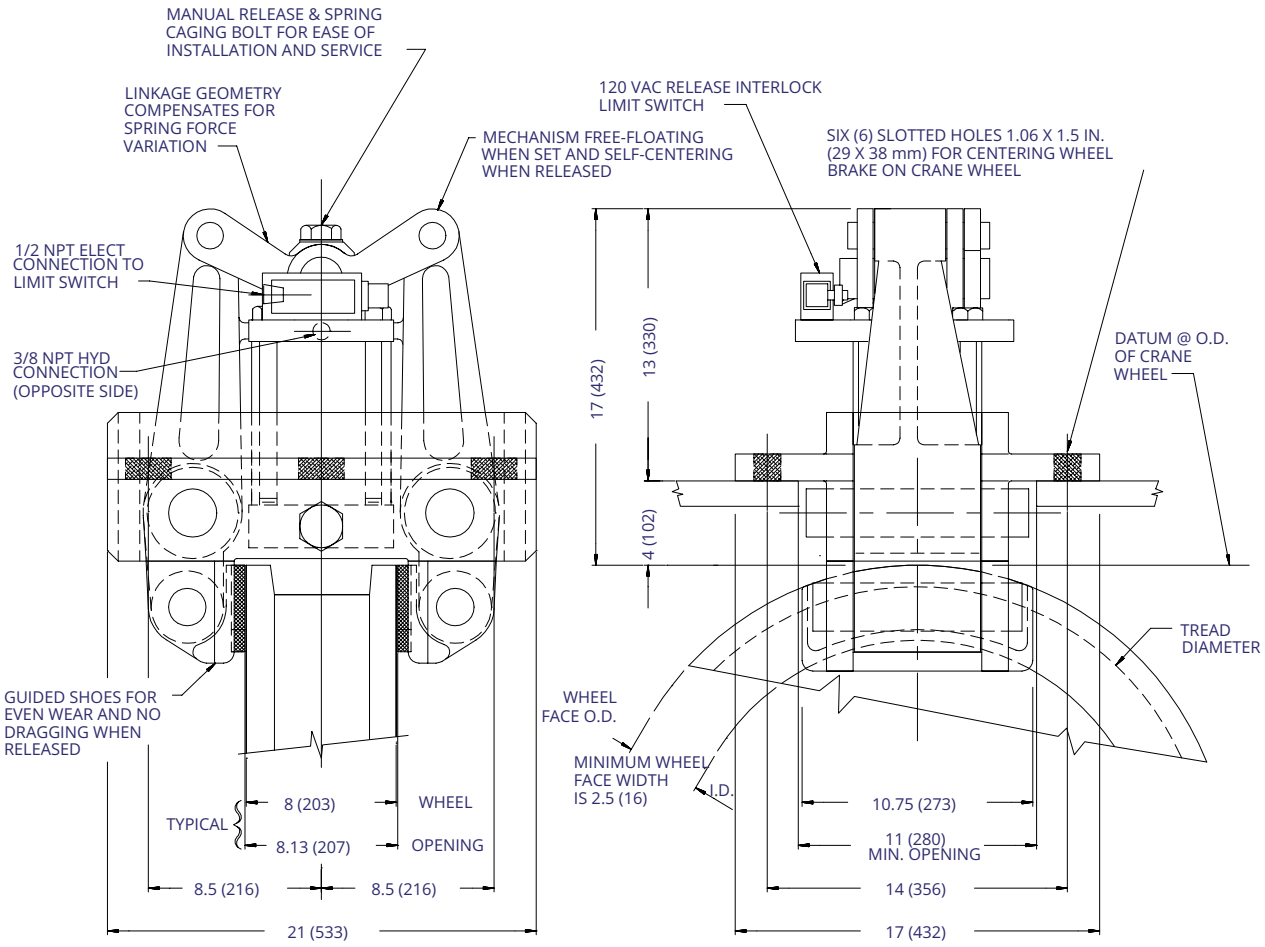
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WLB10F Dynamic Wheel Brake

Flange Mounted

DRAWING
WLB10F-01.1



Specifications

Dual imperial / metric (lb/N, psi/bar, in./mm)

- Actuation: spring-set, hydraulic pressure released; varying spring force compensated for by toggle linkage
- BD = dynamic brake force @ friction pads = 12,500 lb (55,600 N)
- BS = static brake force @ friction pads = 10,000 lb (44,500 N)
- Brake forces at the rail (assuming no slipping or skidding):
- FD = dynamic brake force = (BD/2) × (wheel face O.D. + I.D.) / tread diameter, lb (N)
- FS = static brake force = (BS/2) × (wheel face O.D. + I.D.) / tread diameter, lb (N)
- Pressures: release 1300 psi (90 bar), hold-off 1200 psi (82 bar), max working 2000 psi (136 bar)
- Manual release & spring caging bolt for ease of installation and service
- Linkage geometry compensates for spring force variation
- Mechanism free-floating when set and self-centering when released
- Guided shoes for even wear and no dragging when released
- 120 VAC release interlock limit switch; 1/2 NPT electrical connection to limit switch
- 3/8 NPT hydraulic connection (opposite side)
- Minimum wheel face width is 2.5 in (16 mm)
- Datum @ O.D. of crane wheel
- Six (6) slotted holes 1.06 × 1.5 in (29 × 38 mm) for centering wheel brake on crane wheel
- Overall height 17 in (432 mm); wheel opening 8.13 in (207 mm) typical for 8 in (203 mm) wheel
- Overall width 21 in (533 mm); 11 in (280 mm) minimum opening

Model	Actuation	BD dynamic brake force @ pads	BS static brake force @ pads	Release psi (bar)	Hold-off psi (bar)	Max working psi (bar)	Mounting	Overall height
WLB10F	Spring-set, hydraulic pressure released	12,500 lb (55,600 N)	10,000 lb (44,500 N)	1300 (90)	1200 (82)	2000 (136)	Flange, 6 slotted holes 1.06 × 1.5 in (29 × 38 mm)	17 in (432 mm)

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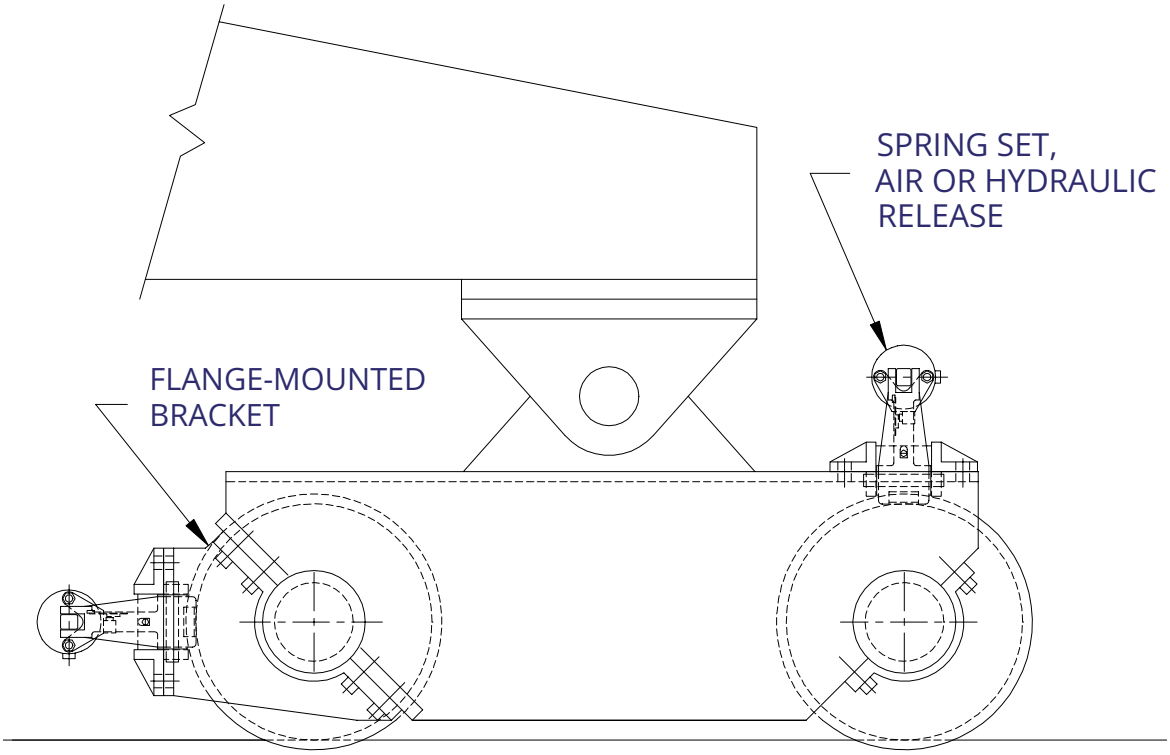
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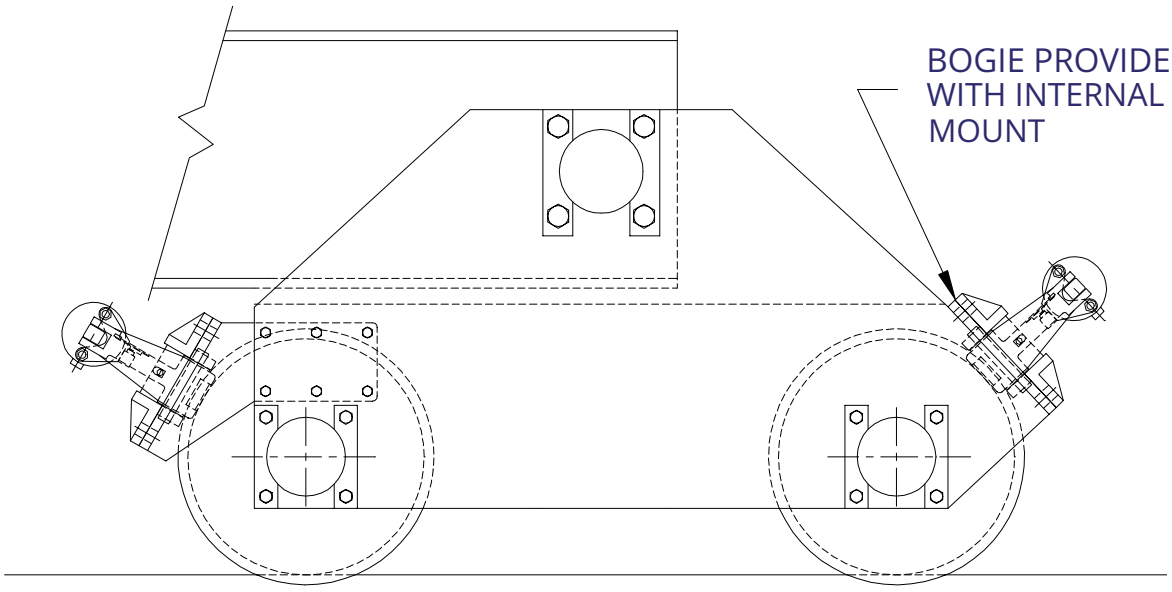
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Johnson Wheel Clamps

Standard features and mounting styles

DRAWING
WLC01-1.0





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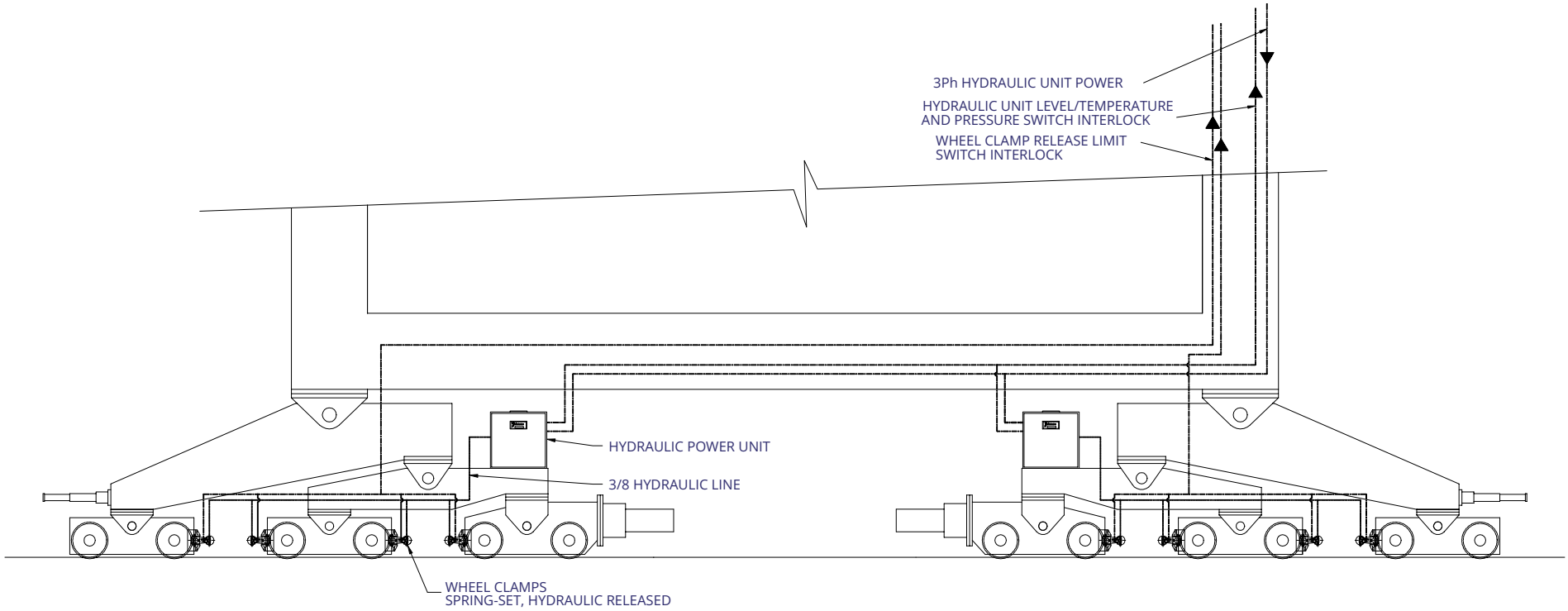
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Johnson Wheel Clamps

Spring-set, hydraulic released · typical 24-wheel container crane

DRAWING
WLC02-1.0



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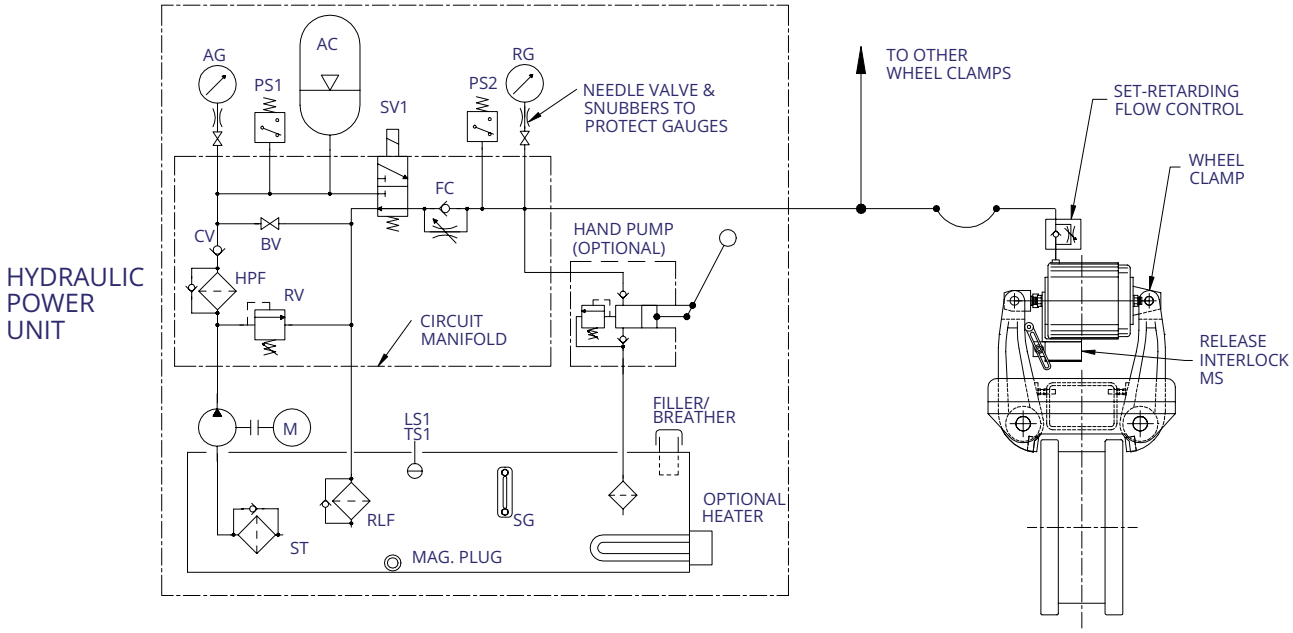
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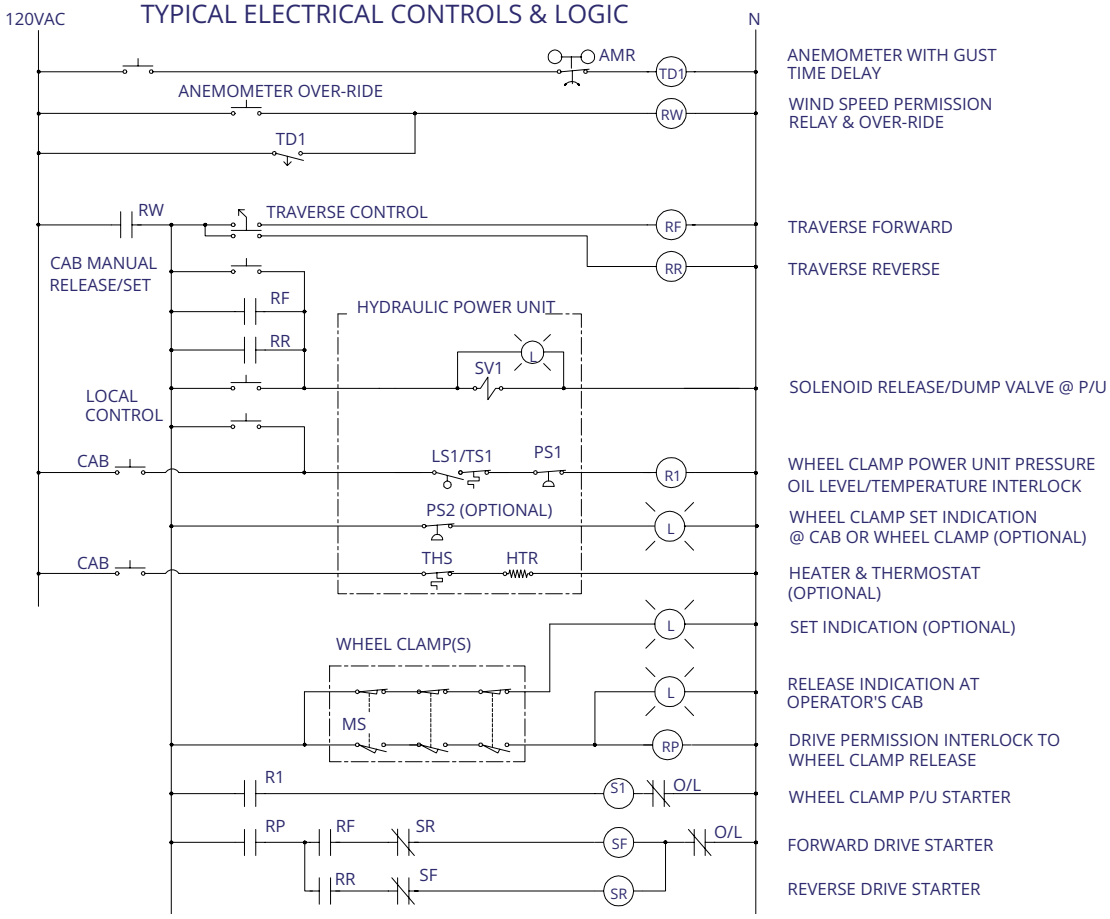
Wheel Clamp Release/Set Controls

Several wheel clamps · one power unit

DRAWING
WCC01-1.0



TYPICAL ELECTRICAL CONTROLS & LOGIC



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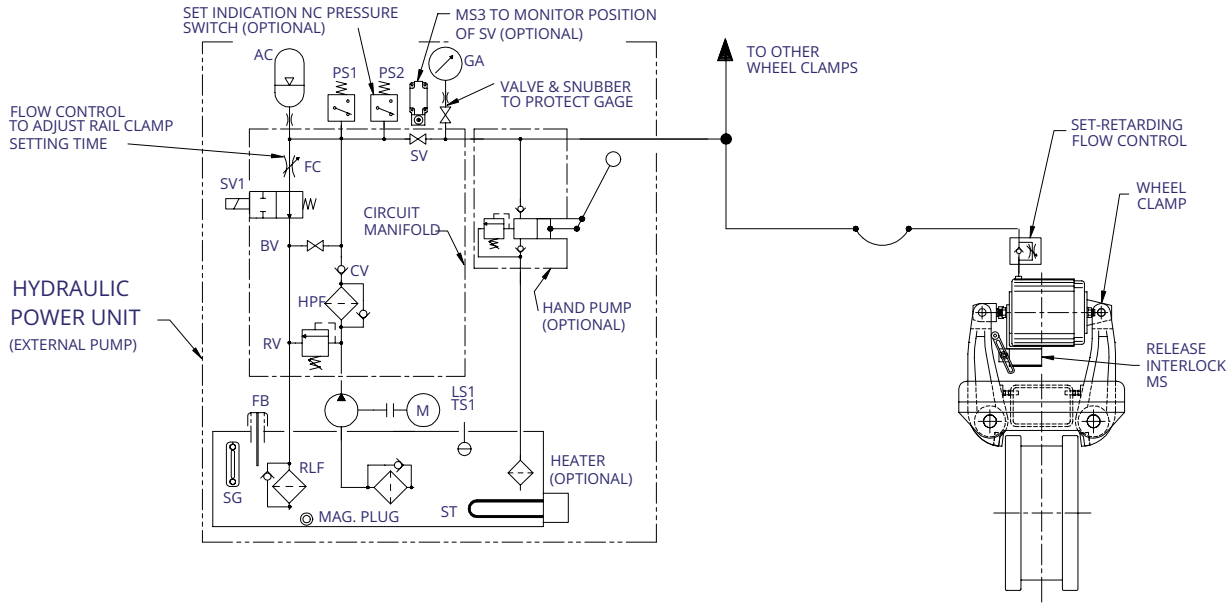
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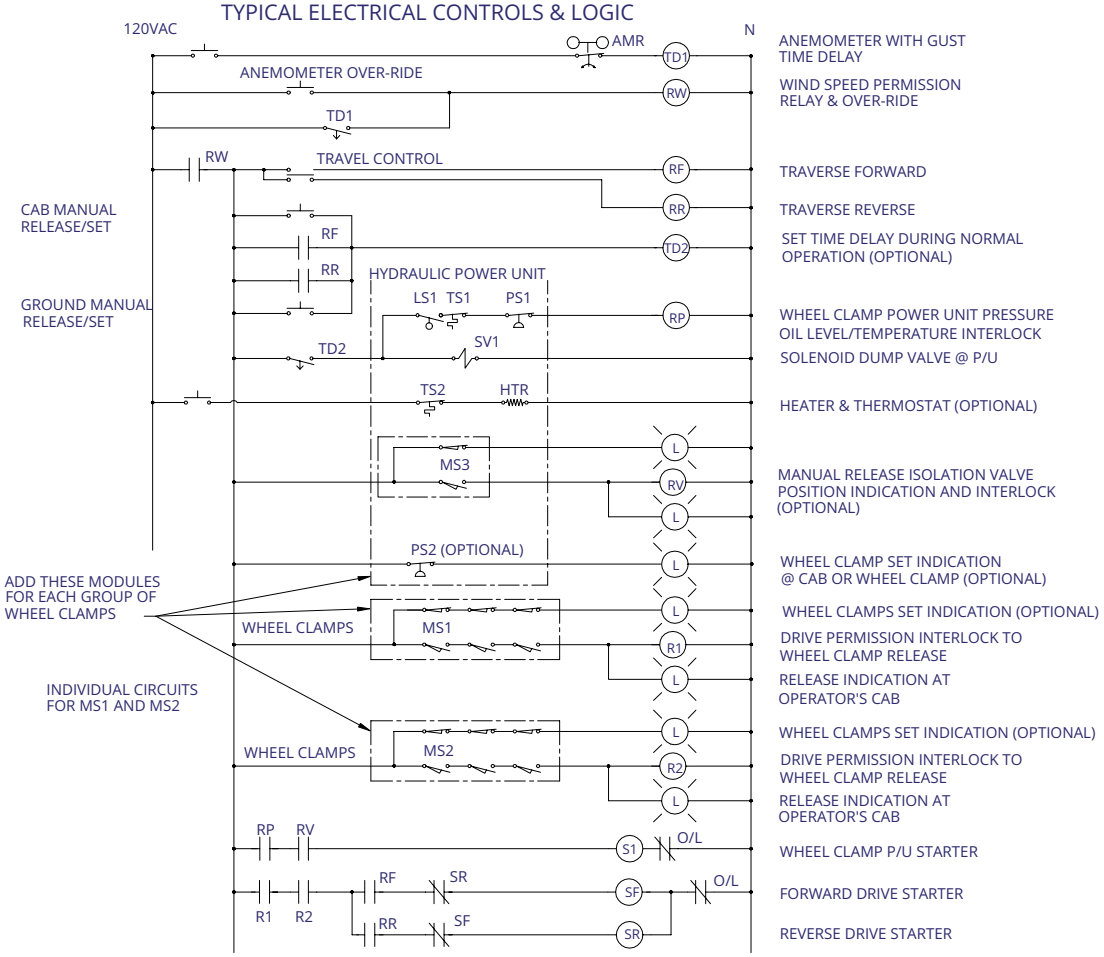
Wheel Clamp Release/Set Controls

Several wheel clamps · one power unit · dual release circuits

DRAWING
WCC02-1.0



TYPICAL ELECTRICAL CONTROLS & LOGIC



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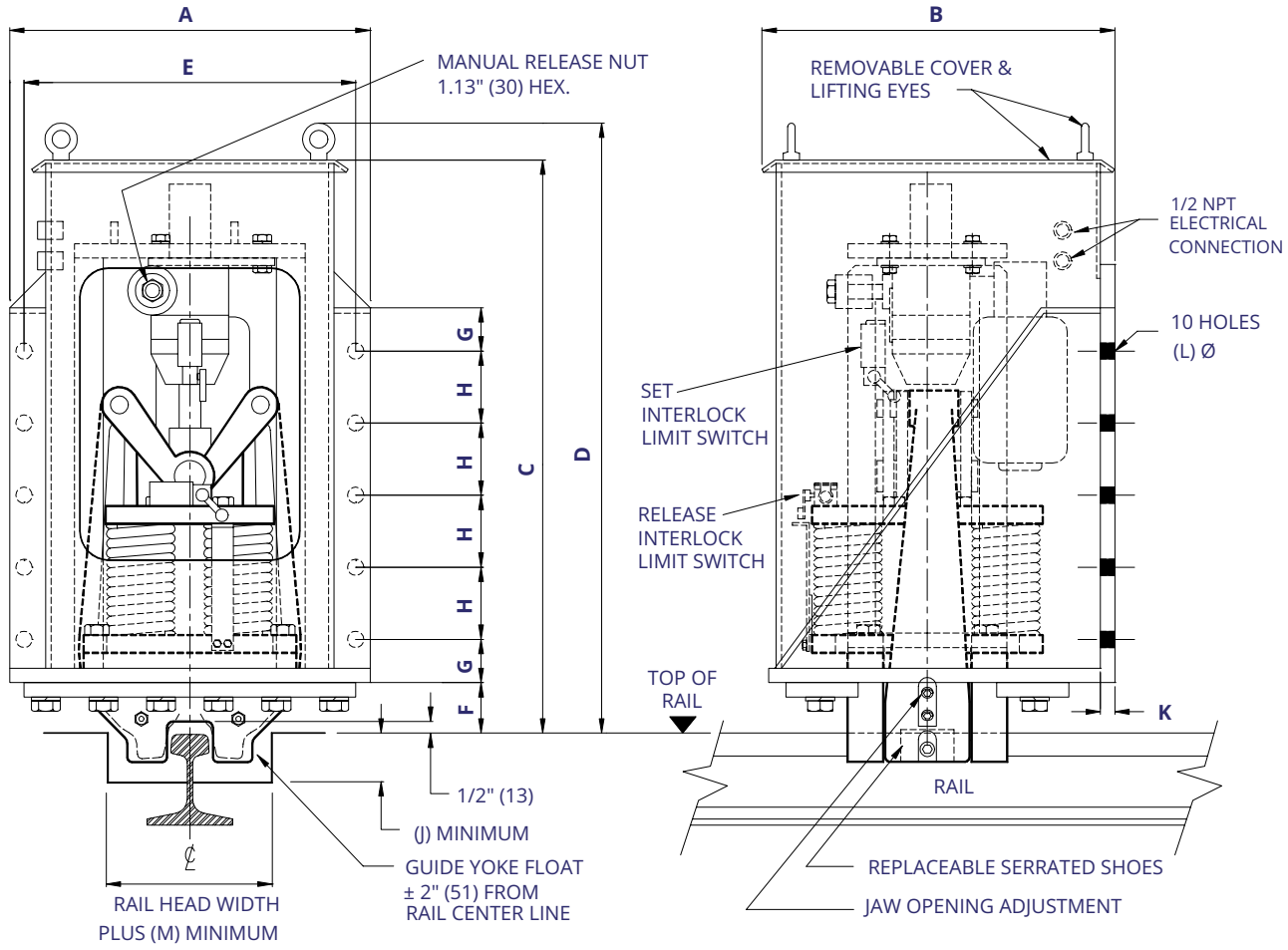
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ETS Truck End Mounted Rail Clamps

Spring-applied, electric release

DRAWING
ETS-01.2



Specifications

Dual imperial / metric (lb/n, in./mm, lb/kg)

- Spring-applied & electric release
- Standard motor: 1 HP / 230–460 V / 3ø / 60 Hz / 1750 RPM / TENV (other motors available)
- This rail clamp is set and released by an electromechanical actuator. In the SET mode the actuator retracts, allowing the springs to set the clamp to a predetermined stroke and clamping force; the actuator continues retracting for the full clamp working stroke until the set limit switch stops the actuator motor. In the RELEASE mode the actuator cages the springs until the release interlock switch stops the actuator motor and permits travel.
- Manual release nut 1.13 in (30 mm) hex
- Set interlock limit switch and release interlock limit switch
- 1/2 NPT electrical connection
- Replaceable serrated shoes; jaw opening adjustment
- Guide yoke float ±2 in (51 mm) from rail centre line
- Rail head width plus (M) minimum
- 10 holes (L) Ø
- Removable cover & lifting eyes

Rail clamp model	Holding force lb/n	Mounting bolt dia. in./mm	Approx. weight lb/kg	A	B	C	D	E	F	G	H	J	K	L	M
ETS025	25000 / 111000	0.75 / 20	600 / 273	22.5/572	21.5/546	36.5/927	38.5/978	21/533	2.5/64	2/51	3.25/83	2/51	0.75/19	0.88/22	5/127
ETS050	50000 / 222000	1.00 / 27	750 / 340	26/660	23/584	39/991	40.5/1029	24/610	3/76	2.5/64	3.5/89	2/51	1.00/25	1.13/29	6.25/159
ETS075	75000 / 334000	1.125 / 30	950 / 432	29.25/743	24.5/622	41.5/1054	44/1118	27/686	3.5/89	3/76	5/127	2.25/57	1.12/29	1.25/32	7.5/191
ETS100	100000 / 445000	1.25 / 33	1200 / 545	32.5/826	26/660	45/1143	47.5/1206	30/762	4/102	3.25/83	6/152	2.25/57	1.25/32	1.38/35	8/203

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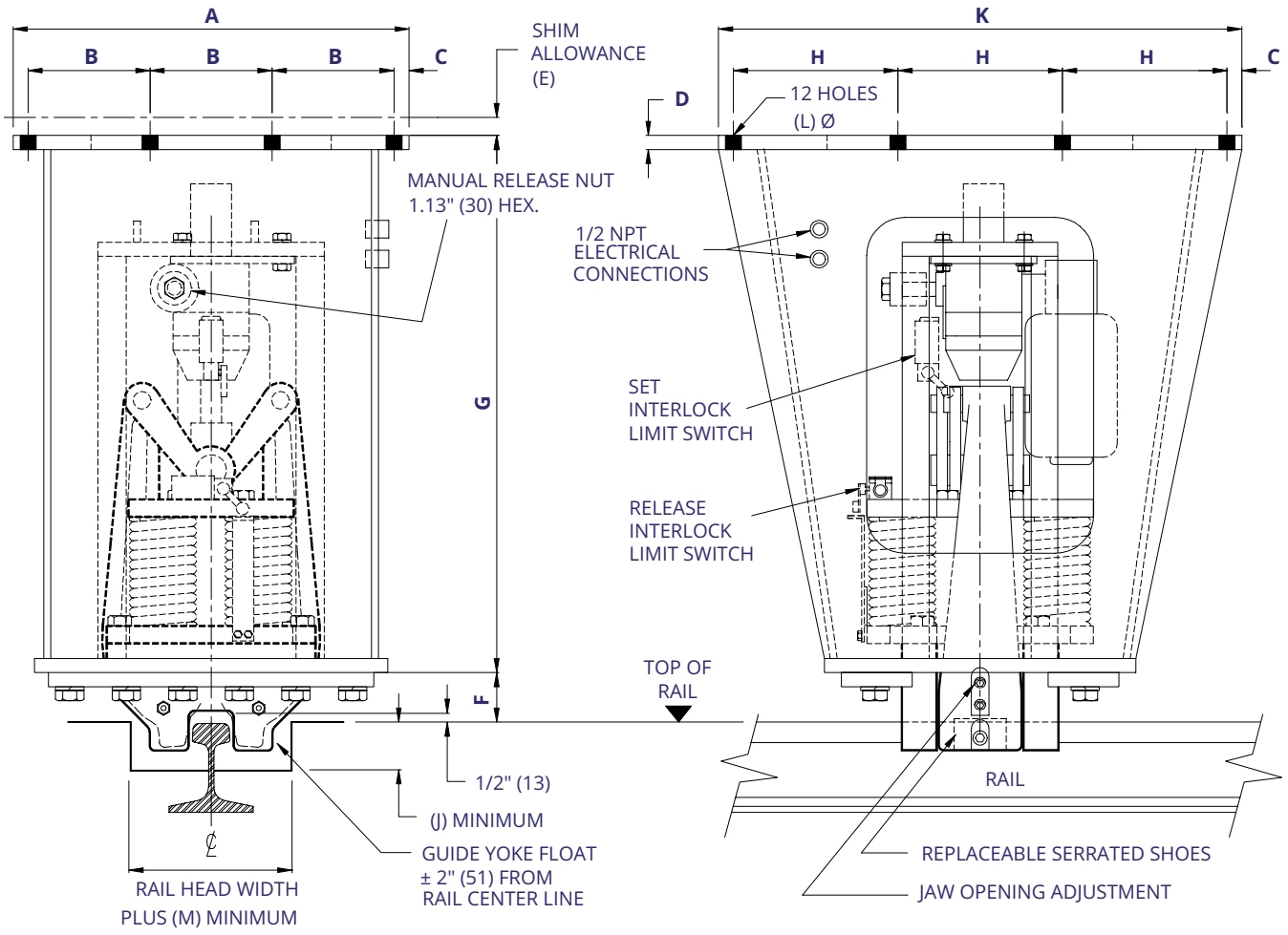
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EBS Sill Beam Mounted Rail Clamps

Spring-applied, electric release

DRAWING
EBS-01.2



Specifications

Dual imperial / metric (lb/n, in./mm, lb/kg)

- Spring-applied & electric release
- Standard motor: 1 HP / 230–460 V / 3ø / 60 Hz / 1750 RPM / TENV (other motors available)
- This rail clamp is set and released by an electromechanical actuator. In the SET mode the actuator retracts, allowing the springs to set the clamp to a predetermined stroke and clamping force; the actuator continues retracting for the full clamp working stroke until the set limit switch stops the actuator motor. In the RELEASE mode the actuator cages the springs until the release interlock switch stops the actuator motor and permits travel.
- Manual release nut 1.13 in (30 mm) hex
- Set interlock limit switch and release interlock limit switch
- 1/2 NPT electrical connection
- Replaceable serrated shoes; jaw opening adjustment
- Guide yoke float ±2 in (51 mm) from rail centre line
- Rail head width plus (M) minimum
- 12 holes (L) Ø; shim allowance (E)

Rail clamp model	Holding force lb/n	Mounting bolt dia. in./mm	Approx. weight lb/kg	A	B	C	D	E	F	G	H	J	K	L	M
EBS025	25000 / 111000	0.875 / 22	900 / 409	25/635	7.75/197	0.88/22	0.88/22	2/51	2.5/64	38.5/978	10.75/273	38/51	34/864	1.00/25	5/127
EBS050	50000 / 222000	1.00 / 27	1050 / 477	28/711	8.63/219	1.06/25	1/25	2/51	3/76	41/1041	11.63/295	41/1041	37/940	1.13/29	6.25/159
EBS075	75000 / 334000	1.125 / 30	1250 / 568	32/813	9.88/251	1.19/29	1.13/29	2.25/57	3.5/89	45/1143	12.88/327	45/1143	41/1041	1.25/32	7.5/191
EBS100	100000 / 445000	1.25 / 33	1450 / 659	36/914	11.13/283	1.31/32	1.25/32	2.25/57	4/102	50/1270	15.13/384	50/1270	48/1219	1.38/35	8/203

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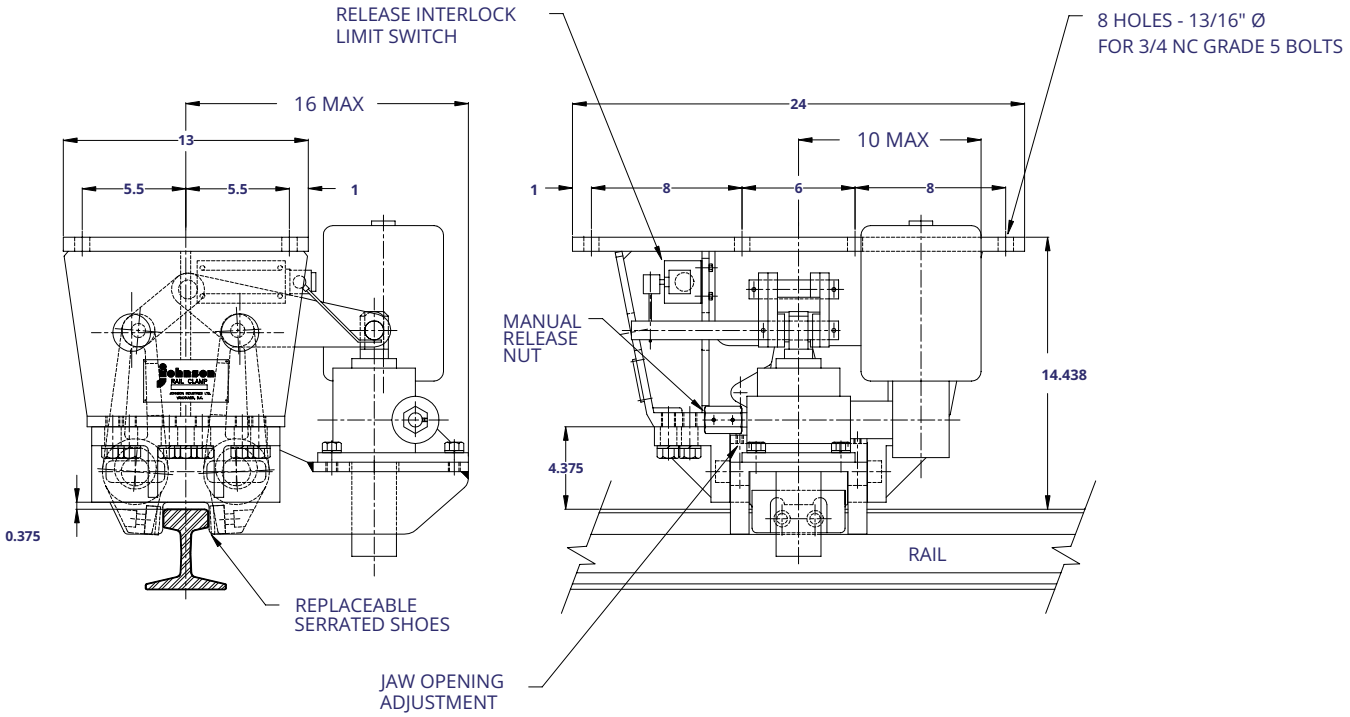
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EBS-020 Sill-Mounted Rail Clamp

DRAWING
EBS020-8.6



Specifications

Imperial (in., lb, amps)

- Release interlock limit switch; manual release nut
- Replaceable serrated shoes; jaw opening adjustment
- 8 holes — 13/16 in Ø for 3/4 NC grade 5 bolts
- Overall 16 in max × 24 in; height 14.438 in
- Paint: one coat zinc chromate primer, two coats grey machinery enamel

Model	Actuation	Clamp holding force	Rail size	Jaw & yoke float	Working actuator stroke	Max stroke	Actuator motor	Max cut-out amperage	Limit switch trip	Limit switch rating	Approx. weight
EBS-020	Electrically set & released	20,000 lb	40–179 lb/yd	+/− 0.75 in	1.5 in to 2.5 in	3 in	1 HP 1750 RPM TENV design "D" 460 V 3 Ph 60 Hz	2.15 amps	0.375 in	120 VAC with NO & NC contacts	460 lb

04

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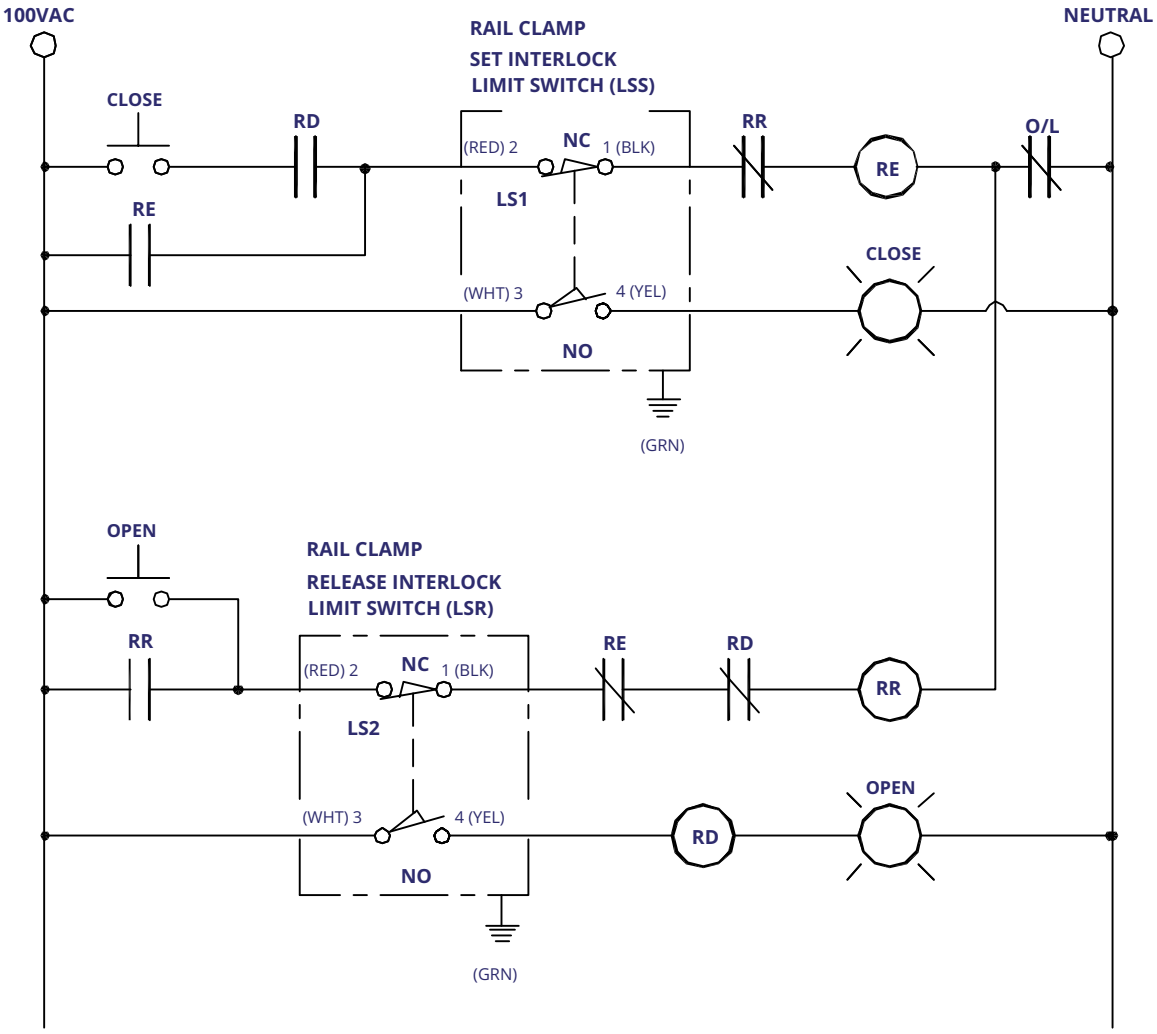
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ETS050 Rail Clamp

Electrical schematic

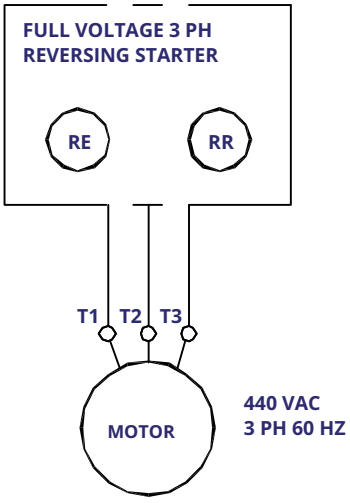
DRAWING
A5881-21.1



RR = STARTER RELEASE

RE = STARTER ENGAGE

RD = DRIVE INTERLOCK



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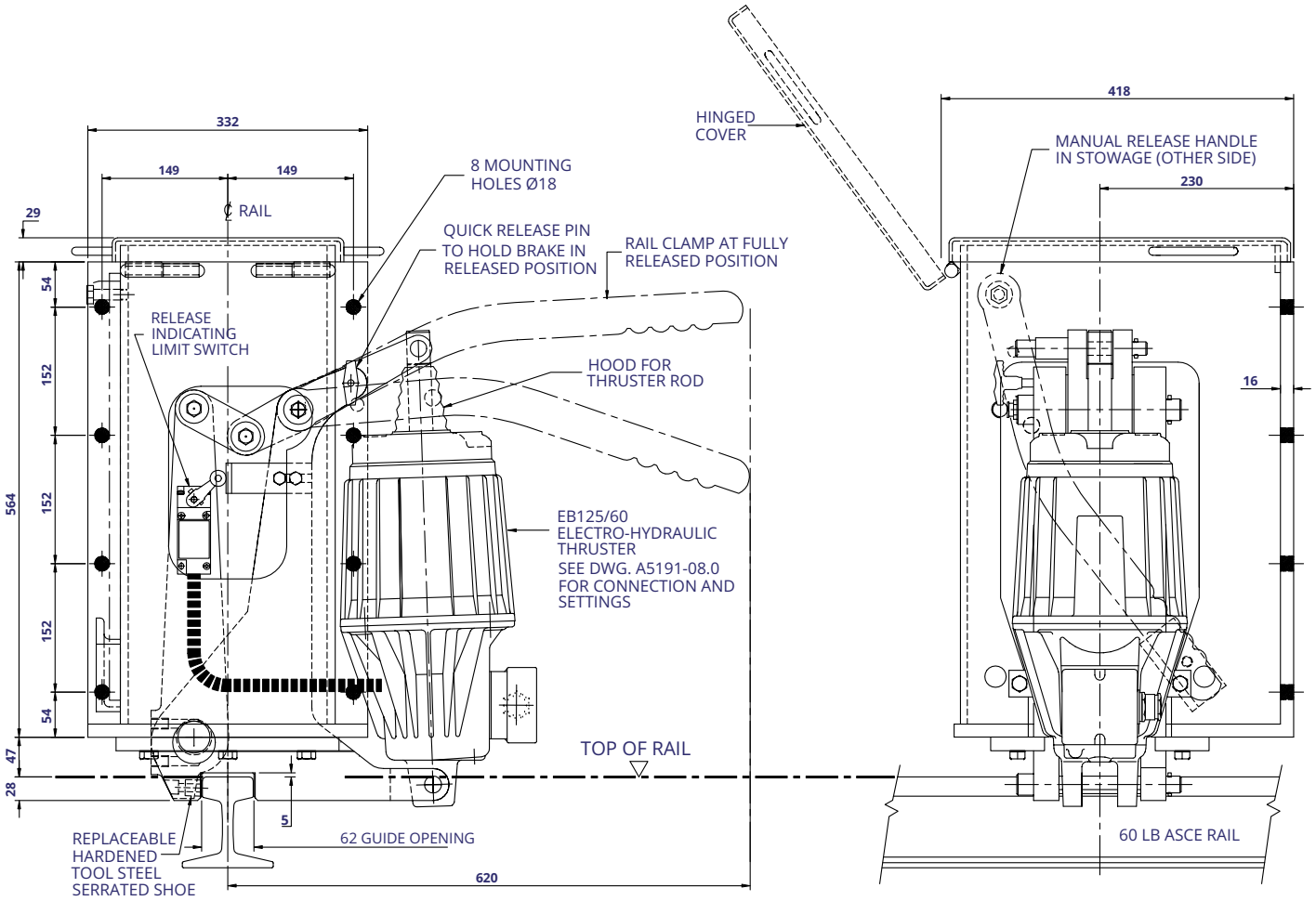
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TMTRB-A30-EB125/60 Rail Clamp

Truck End Mounted, For Parking Only

DRAWING
B5191-01.1



Specifications

Metric (mm) with imperial equivalents

- DIMENSIONS: mm
- Spring set / thruster release
- EB125/60 electro-hydraulic thruster (see dwg. A5191-08.0 for connection and settings)
- Manual hand release also; manual release handle in stowage (other side)
- Quick release pin to hold brake in released position; hinged cover; hood for thruster rod
- Release indicating limit switch
- Replaceable hardened tool steel serrated shoe
- 8 mounting holes Ø18 mm; 62 mm guide opening
- Overall 620 mm long × 564 mm high; 418 mm wide
- Quantity supplied as two: one as shown, one mirror image

Model	Actuation power	Holding force	Flow control	Mounting	Operation	Limit switch
TMTRB-A30-EB125/60	0.5 HP [0.37 kW] 460 V / 3 PH / 60 Hz, 0.66 amp	2,500 lb [11.4 kN]	Internal thruster adjustable, allowing soft application of tripper clamp	Truck end mount	Spring applied, electrically released — manual hand release also	6 A @ 120 VAC

Model	VA ratings	Weight total	Rail size
TMTRB-A30-EB125/60	Make = 7200 VA, break = 720 VA (IEC947-5-1, EN60947-5-1)	145 kg [320 lb]	60-lb A.S.C.E., 2.375 in head width

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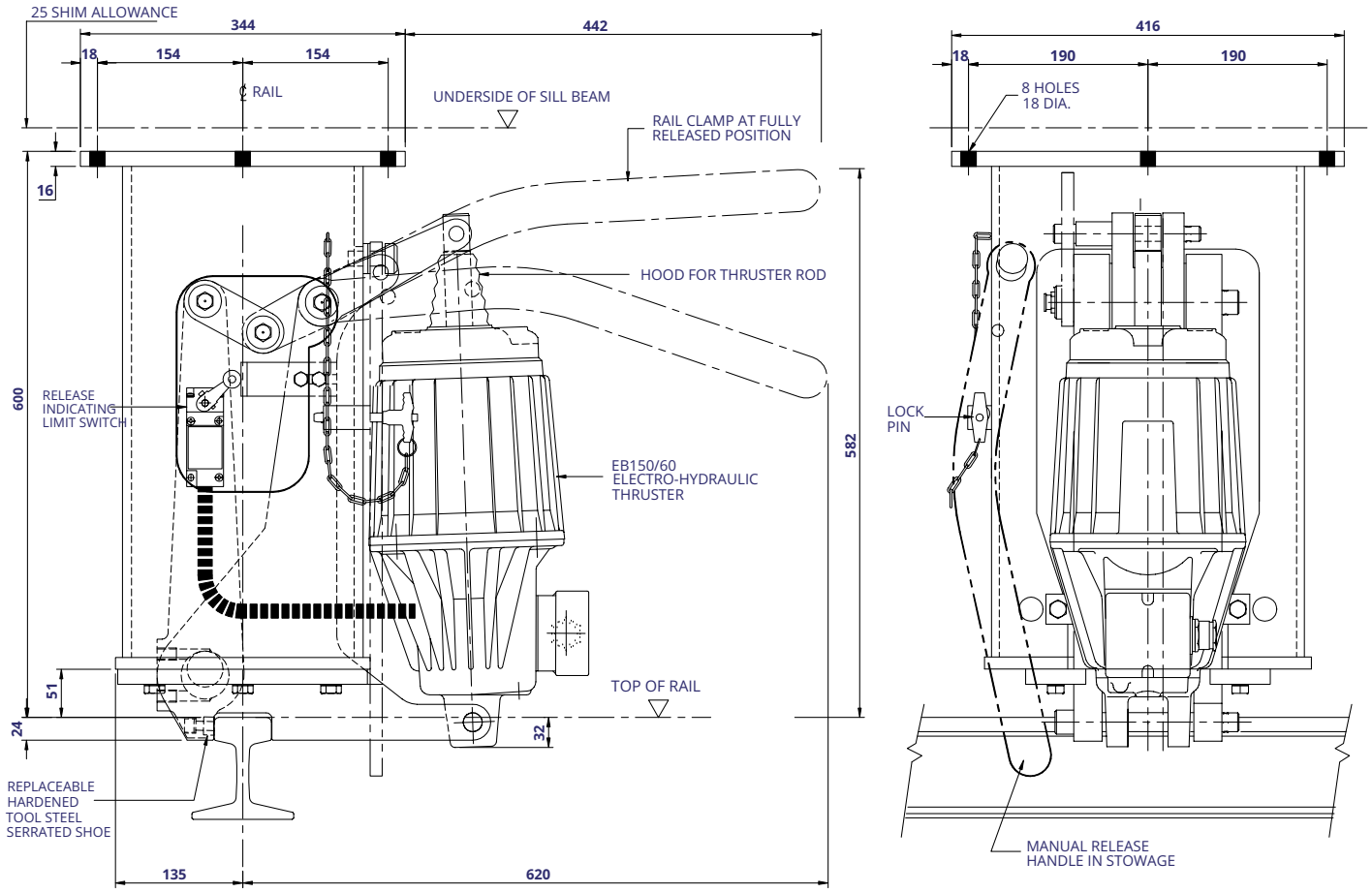
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TRB-A30-EB150/60 Rail Clamp (sill beam mounted)

DRAWING
BTRBT-1.5



Specifications

Metric (mm) with imperial equivalents

- DIMENSIONS: mm
- Spring set / thruster release
- EB150/60 electro-hydraulic thruster; hood for thruster rod
- Release indicating limit switch; lock pin; manual release handle in stowage
- Replaceable hardened tool steel serrated shoe
- 8 holes 18 mm dia.; 25 mm shim allowance
- Overall 620 mm long × 600 mm high; 416 mm wide
- Mounts to the underside of sill beam

Model	Actuation power	Holding force	Flow control	Mounting	Operation	Limit switch
TRB-A30-EB150/60	0.5 HP [0.37 kW]	3000 LB [13.3 kN]	Internal thruster adjustable, allowing soft application of tripper clamp	Sill beam	Spring applied, electrically released — manual hand release also	6 A @ 120 VAC

Model	VA ratings	Weight total	Thruster
TRB-A30-EB150/60	Make = 7200 VA, break = 720 VA (IEC947-5-1, EN60947-5-1)	145 kg [320 lb]	EB150/60 electro-hydraulic thruster

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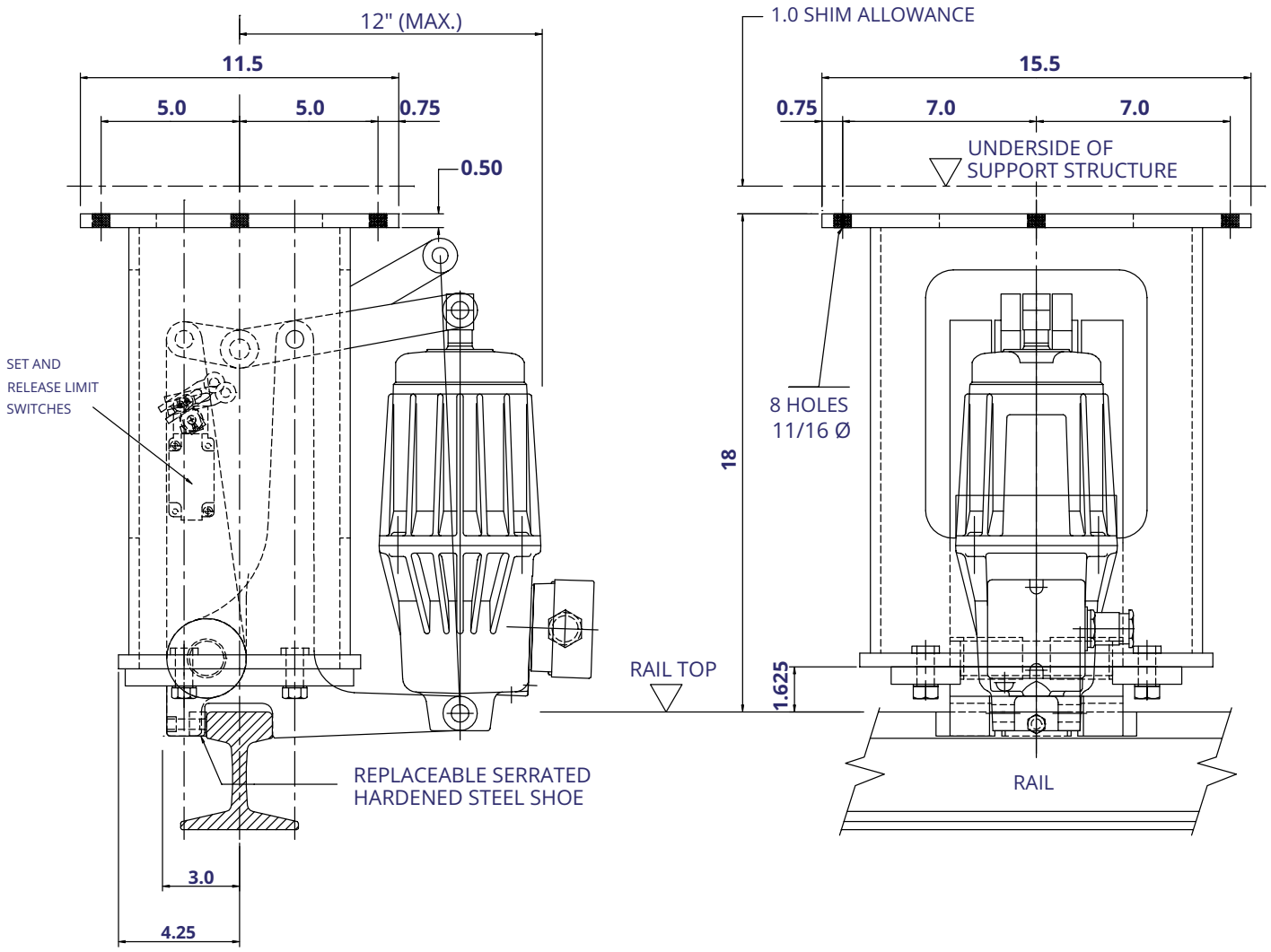
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TRB003T Tripper Rail Clamp

DRAWING
TTB01-01.0



Specifications

Imperial (in., lb)

- DIMENSIONS: INCHES
- Spring set / thruster release
- Set and release limit switches
- Replaceable serrated hardened steel shoe
- 8 holes 11/16 in Ø; 1.0 in shim allowance
- Overall 12 in (max) × 18 in high; mounts to underside of support structure

Model	Actuation	Actuator strokes working range	Max stroke	Nominal rating	Assembly lateral float	Approx. weight
TRB003T	Spring set, thruster release	1.25 to 1.75 in	2 in	1000 lb holding (parked)	+/− 0.5 in	260 lb

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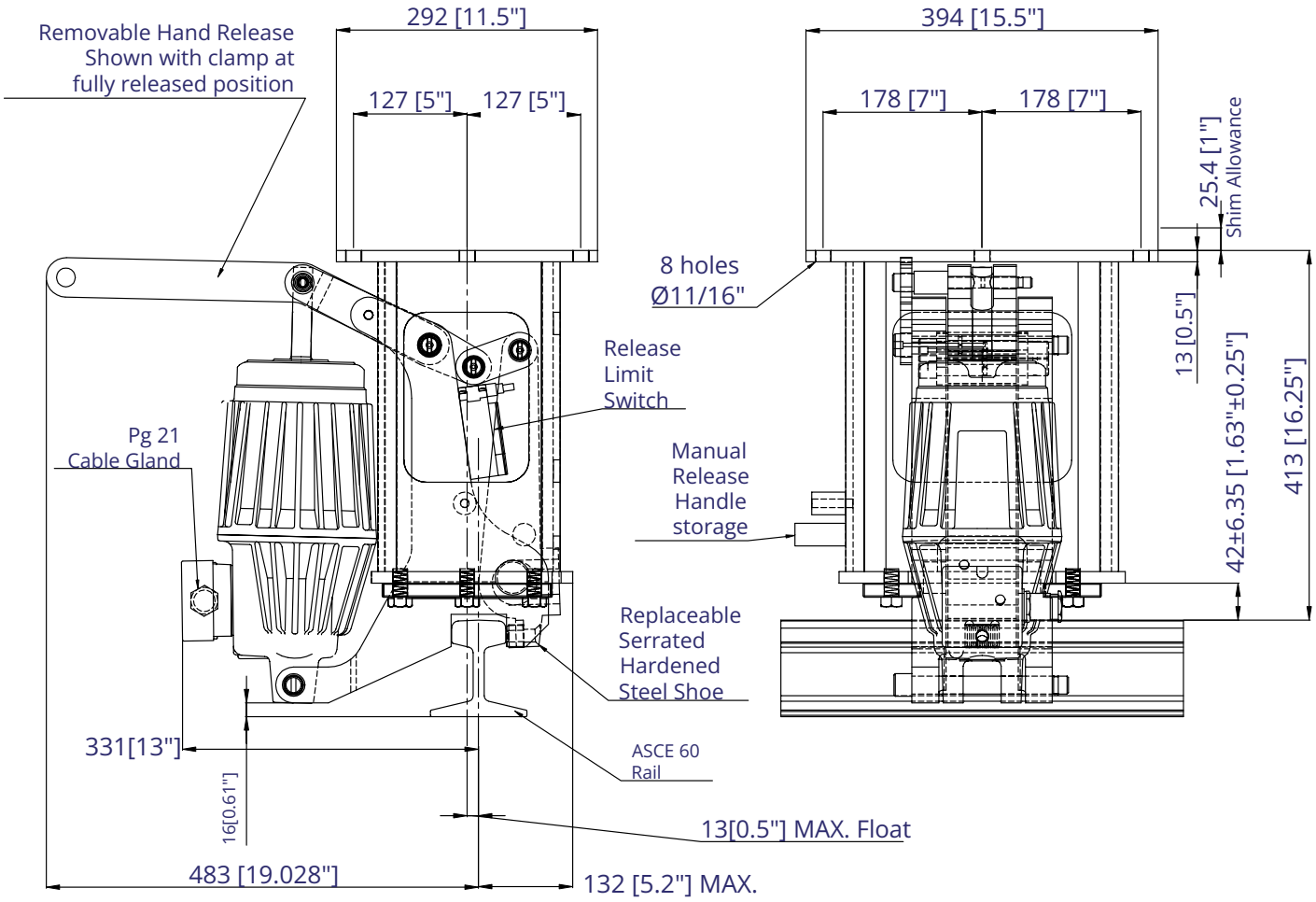
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TRB-A60-EB50/50 Thruster Rail Clamp

DRAWING
B-469401-1.1



Specifications

Metric (mm) with imperial equivalents

- Spring set, thruster release rail clamp brake
- Removable hand release (shown with clamp at fully released position)
- Release limit switch; manual release handle storage; Pg 21 cable gland
- Replaceable serrated hardened steel shoe
- 8 holes Ø11/16 in; 25.4 mm [1 in] shim allowance
- Overall 483 mm [19.028 in] long; 413 mm [16.25 in] high; 394 mm [15.5 in] wide
- 13 mm [0.5 in] max float
- Options: release indicator switch — yes; manual hand release — yes
- Paint: standard gray enamel

Model	Holding force	Thruster stroke released	Thruster stroke set	Thruster power	Duty	Lateral float	Rail size	Approx. weight
TRB-A60-EB50/50 C50	1000 LB (4.43 kN)	50 mm	5 to 15 mm	0.20 kW	Parking only	± 0.5 in horizontal	ASCE 60 rail	100 kg (220 lb) each

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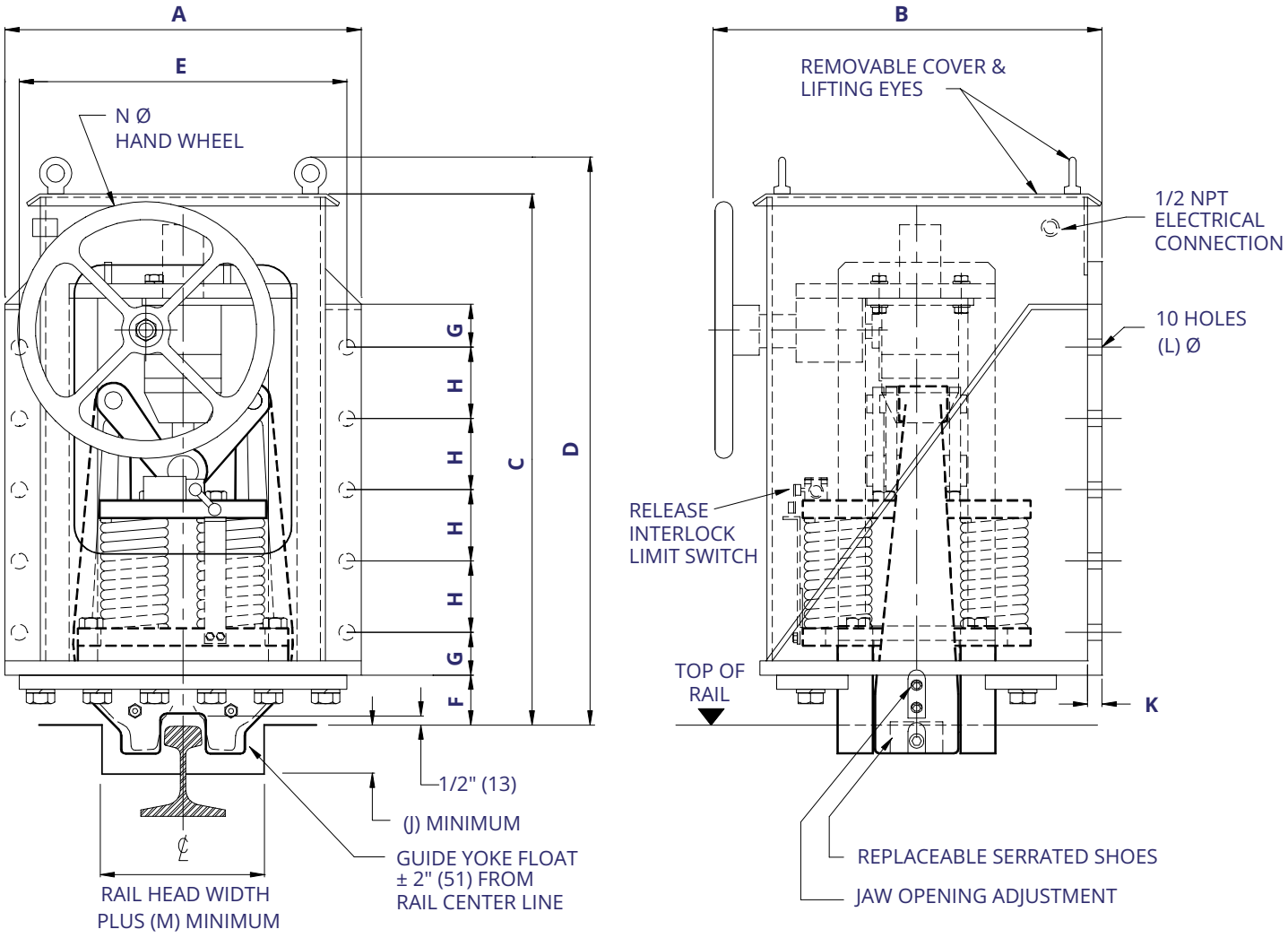
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MTS Truck End Mounted Rail Clamps

Spring-applied, manual release

DRAWING
MTS-01.0



Specifications

Dual imperial / metric (lb/n, in./mm, lb/kg)

- Spring-applied & manual release
- N Ø hand wheel
- Release interlock limit switch
- 1/2 NPT electrical connection
- Replaceable serrated shoes; jaw opening adjustment
- Guide yoke float ±2 in (51 mm) from rail centre line
- Rail head width plus (M) minimum
- 10 holes (L) Ø
- Removable cover & lifting eyes

Rail clamp model	Holding force lb/n	Mounting bolt dia. in./mm	Approx. weight lb/kg	A	B	C	D	E	F	G	H	J	K	L	M	N
MTS025	25000 / 111000	0.75 / 20	600 / 273	22.5/572	24/610	33.5/851	35.5/902	21/533	2.5/64	2/51	3.25/83	2/51	0.75/19	0.81/22	5/127	14/356
MTS050	50000 / 222000	1.00 / 24	750 / 340	26/660	25.5/648	35/889	37.5/952	24/610	3/76	2.5/64	3.5/89	2/51	1.00/25	1.06/27	6.25/159	18/457
MTS075	75000 / 334000	1.125 / 27	950 / 432	29.25/743	27/686	37.5/952	40/1016	27/686	3.5/89	3/76	5/127	2.25/57	1.12/29	1.19/30	7.5/191	24/610
MTS100	100000 / 445000	1.25 / 30	1200 / 545	32.5/826	28.5/724	40/1016	42.5/1080	30/762	4/102	3.25/83	6/152	2.25/57	1.25/32	1.31/33	8/203	30/762

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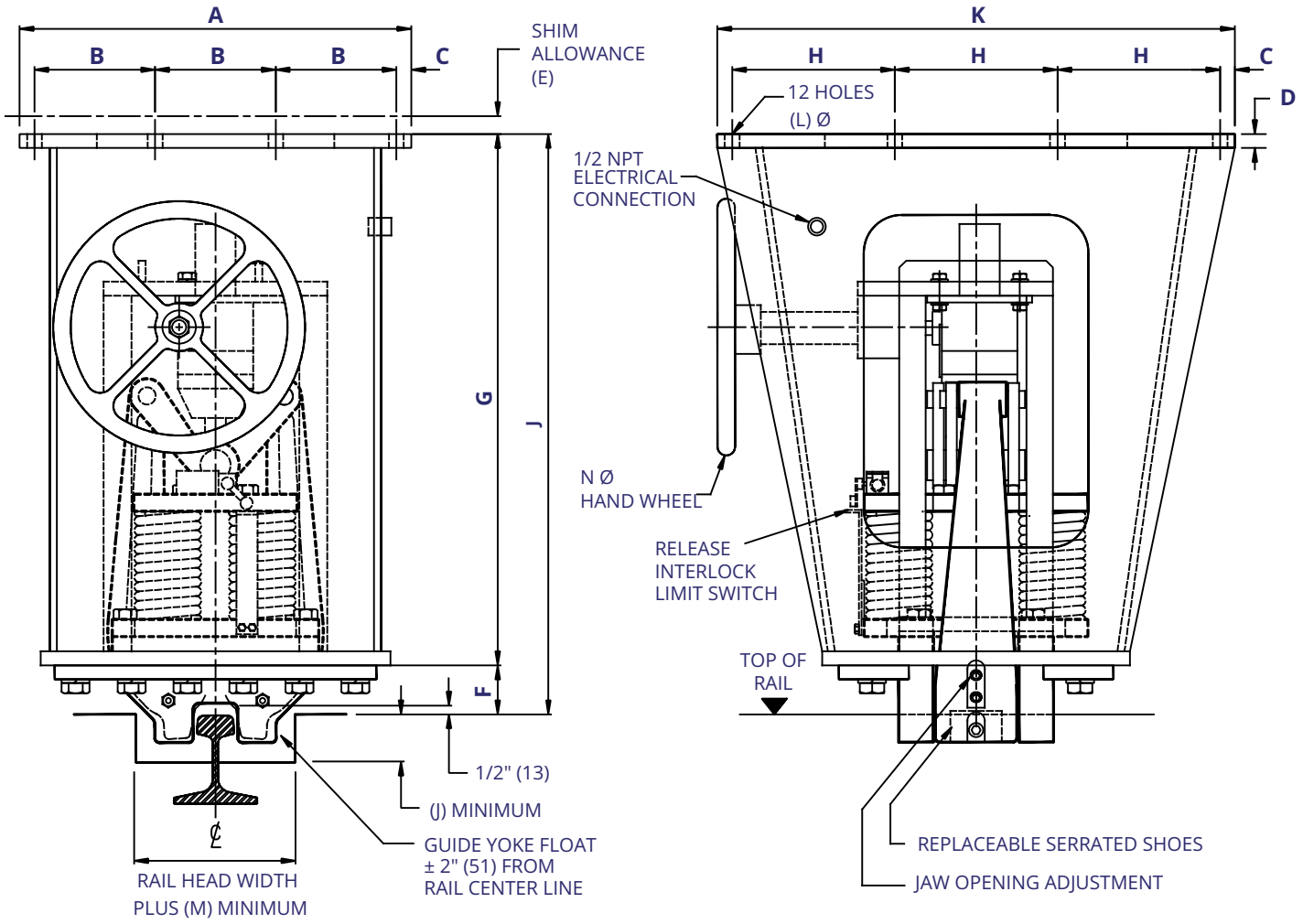
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MBS Sill Beam Mounted Rail Clamps

Spring-applied, manual release

DRAWING
MBS-01.1



Specifications

Dual imperial / metric (lb/n, in./mm, lb/kg)

- Spring-applied & manual release
- N Ø hand wheel
- Release interlock limit switch
- 1/2 NPT electrical connection
- Replaceable serrated shoes; jaw opening adjustment
- Guide yoke float ±2 in (51 mm) from rail centre line
- Rail head width plus (M) minimum
- 12 holes (L) Ø; shim allowance (E)

Rail clamp model	Holding force lb/n	Mounting bolt dia. in./mm	Approx. weight lb/kg	A	B	C	D	E	F	G	H	J	K	L	M	N
MBS025	25000 / 111000	0.875 / 22	900 / 409	25/635	7.75/197	0.88/22	0.88/22	2/51	2.5/64	35.5/902	10.75/273	38/965	34/864	1.00/25	5/127	14/356
MBS050	50000 / 222000	1.00 / 27	1050 / 477	28/711	8.63/219	1.06/25	1/25	2/51	3/76	38/965	11.63/295	41/1041	37/940	1.13/28	6.25/159	18/457
MBS075	75000 / 334000	1.125 / 30	1250 / 568	32/813	9.88/251	1.19/29	1.13/29	2.25/57	3.5/89	41.5/1054	12.88/327	45/1143	41/1041	1.25/35	7.5/191	24/610
MBS100	100000 / 445000	1.25 / 33	1450 / 659	36/914	11.13/283	1.31/32	1.25/32	2.25/57	4/102	46/1168	15.13/384	50/1270	48/1219	1.38/38	8/203	30/762

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