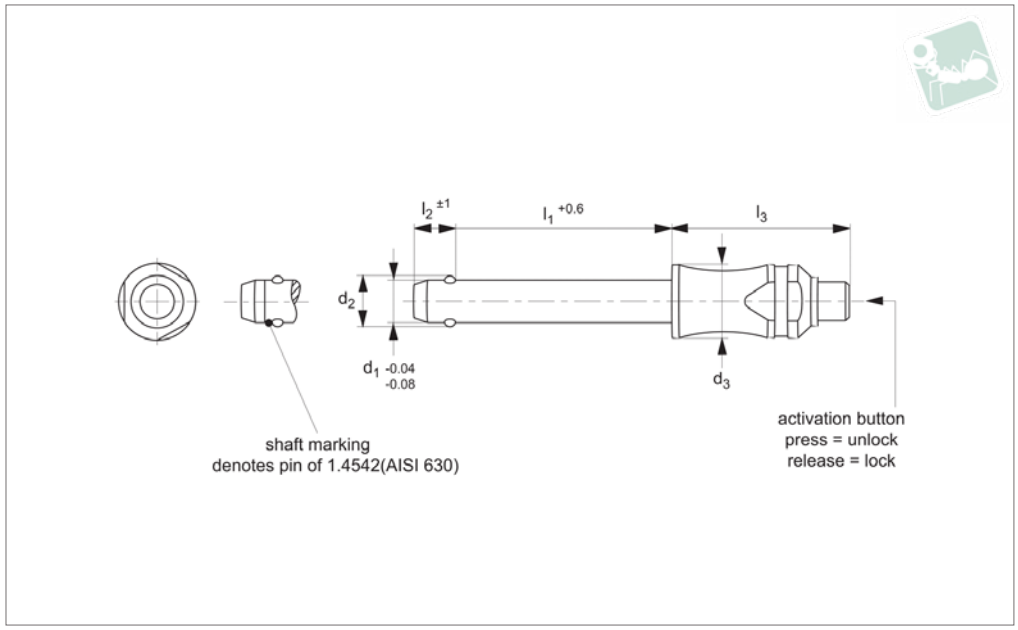
Ball Lock Pins - Contoured Handle

self-locking - single acting - stainless 1.4542



QR1606

Material

Pin: stainless steel 1.4542 (AISI 630), precipitation-hardened, blast finish. Offering extreme load capacity (marked at end of shaft to denote 1.4542 material).
End of shaft marked for material type 1.4542.
Spring: stainless steel.

Technical Notes

Pressing = unlocking.
Releasing = locking.
Single piece contoured design for limited space applications.
Temperature resistance up to 250°C.
For quick fastening and locking of frequently repeated connections.
For suitable lanyards see part no. LA1066.
W0970 and .W0974 only. Easy install locating bushes available see part no. LA1310.

Tips

Single piece design, no danger of parts coming away from pin - ideal for applications with F.O.B (Foreign Object Body) issues.

Important Notes

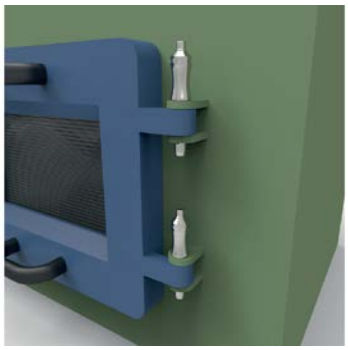
*Shearing resistance similar to DIN 50141.

Order No.	Material	d_1	d_2	d_3	l_1	l_2	l_3	Location hole dia. tol. H11	Shearing resistance, double kN min.	Weight g
QR1606.M05-010-T	Stainless 1.4542	5	5.5	10	10	6.0	26.2	5	24	10
QR1606.M05-015-T	Stainless 1.4542	5	5.5	10	15	6.0	26.2	5	24	11
QR1606.M05-020-T	Stainless 1.4542	5	5.5	10	20	6.0	26.2	5	24	12
QR1606.M05-025-T	Stainless 1.4542	5	5.5	10	25	6.0	26.2	5	24	13
QR1606.M05-030-T	Stainless 1.4542	5	5.5	10	30	6.0	26.2	5	24	13
QR1606.M06-010-T	Stainless 1.4542	6	7.0	10	10	7.0	26.2	6	35	11
QR1606.M06-015-T	Stainless 1.4542	6	7.0	10	15	7.0	26.2	6	35	12
QR1606.M06-020-T	Stainless 1.4542	6	7.0	10	20	7.0	26.2	6	35	13
QR1606.M06-025-T	Stainless 1.4542	6	7.0	10	25	7.0	26.2	6	35	14
QR1606.M06-030-T	Stainless 1.4542	6	7.0	10	30	7.0	26.2	6	35	15
QR1606.M06-035-T	Stainless 1.4542	6	7.0	10	35	7.0	26.2	6	35	16
QR1606.M06-040-T	Stainless 1.4542	6	7.0	10	40	7.0	26.2	6	35	17
QR1606.M06-045-T	Stainless 1.4542	6	7.0	10	45	7.0	26.2	6	35	18
QR1606.M06-050-T	Stainless 1.4542	6	7.0	10	50	7.0	26.2	6	35	19
QR1606.M08-020-T	Stainless 1.4542	8	9.6	14	20	8.2	33.1	8	63	33
QR1606.M08-025-T	Stainless 1.4542	8	9.6	14	25	8.2	33.1	8	63	34
QR1606.M08-030-T	Stainless 1.4542	8	9.6	14	30	8.2	33.1	8	63	36
QR1606.M08-035-T	Stainless 1.4542	8	9.6	14	35	8.2	33.1	8	63	38
QR1606.M08-040-T	Stainless 1.4542	8	9.6	14	40	8.2	33.1	8	63	40
QR1606.M08-045-T	Stainless 1.4542	8	9.6	14	45	8.2	33.1	8	63	42
QR1606.M08-050-T	Stainless 1.4542	8	9.6	14	50	8.2	33.1	8	63	44
QR1606.M10-020-T	Stainless 1.4542	10	12.0	14	20	9.6	33.1	10	100	39
QR1606.M10-025-T	Stainless 1.4542	10	12.0	14	25	9.6	33.1	10	100	42
QR1606.M10-030-T	Stainless 1.4542	10	12.0	14	30	9.6	33.1	10	100	45
QR1606.M10-035-T	Stainless 1.4542	10	12.0	14	35	9.6	33.1	10	100	48

Ball Lock Pins - Contoured Handle

self-locking - single acting - stainless 1.4542

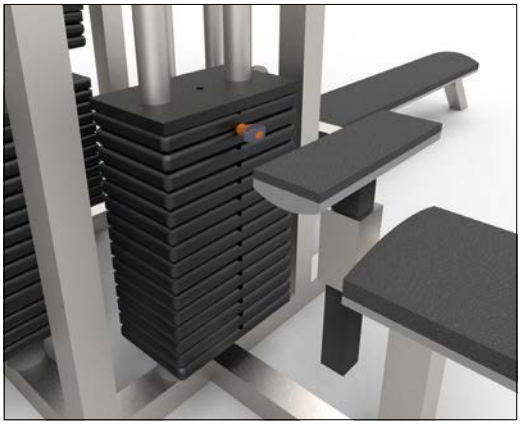
Order No.	Material	d_1	d_2	d_3	l_1	l_2	l_3	Location hole dia. tol. H11	Shearing resistance, double kN min.	Weight g
QR1606.M10-040-T	Stainless 1.4542	10	12.0	14	40	9.6	33.1	10	100	51
QR1606.M10-045-T	Stainless 1.4542	10	12.0	14	45	9.6	33.1	10	100	54
QR1606.M10-050-T	Stainless 1.4542	10	12.0	14	50	9.6	33.1	10	100	57
QR1606.M10-060-T	Stainless 1.4542	10	12.0	14	60	9.6	33.1	10	100	63
QR1606.M12-025-T	Stainless 1.4542	12	14.5	20	25	10.6	39.5	12	144	84
QR1606.M12-030-T	Stainless 1.4542	12	14.5	20	30	10.6	39.5	12	144	88
QR1606.M12-035-T	Stainless 1.4542	12	14.5	20	35	10.6	39.5	12	144	92
QR1606.M12-040-T	Stainless 1.4542	12	14.5	20	40	10.6	39.5	12	144	96
QR1606.M12-045-T	Stainless 1.4542	12	14.5	20	45	10.6	39.5	12	144	101
QR1606.M12-050-T	Stainless 1.4542	12	14.5	20	50	10.6	39.5	12	144	105
QR1606.M12-060-T	Stainless 1.4542	12	14.5	20	60	10.6	39.5	12	144	113
QR1606.M12-070-T	Stainless 1.4542	12	14.5	20	70	10.6	39.5	12	144	122
QR1606.M12-080-T	Stainless 1.4542	12	14.5	20	80	10.6	39.5	12	144	130
QR1606.M16-030-T	Stainless 1.4542	16	19.0	20	30	14.0	39.5	16	257	120
QR1606.M16-035-T	Stainless 1.4542	16	19.0	20	35	14.0	39.5	16	257	127
QR1606.M16-040-T	Stainless 1.4542	16	19.0	20	40	14.0	39.5	16	257	135
QR1606.M16-045-T	Stainless 1.4542	16	19.0	20	45	14.0	39.5	16	257	143
QR1606.M16-050-T	Stainless 1.4542	16	19.0	20	50	14.0	39.5	16	257	150
QR1606.M16-060-T	Stainless 1.4542	16	19.0	20	60	14.0	39.5	16	257	166
QR1606.M16-070-T	Stainless 1.4542	16	19.0	20	70	14.0	39.5	16	257	181
QR1606.M16-080-T	Stainless 1.4542	16	19.0	20	80	14.0	39.5	16	257	196
QR1606.M20-060-T	Stainless 1.4542	20	25.0	28	60	20.5	49.9	20	403	322
QR1606.M20-080-T	Stainless 1.4542	20	25.0	28	80	20.5	49.9	20	403	370
QR1606.M20-100-T	Stainless 1.4542	20	25.0	28	100	20.5	49.9	20	403	414
QR1606.M20-120-T	Stainless 1.4542	20	25.0	28	120	20.5	49.9	20	403	466



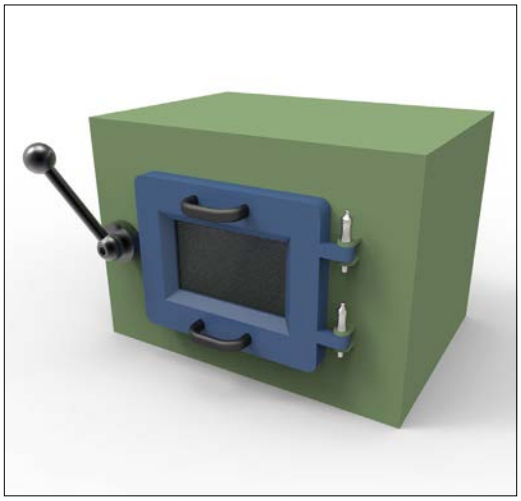
Sound Rigging Systems

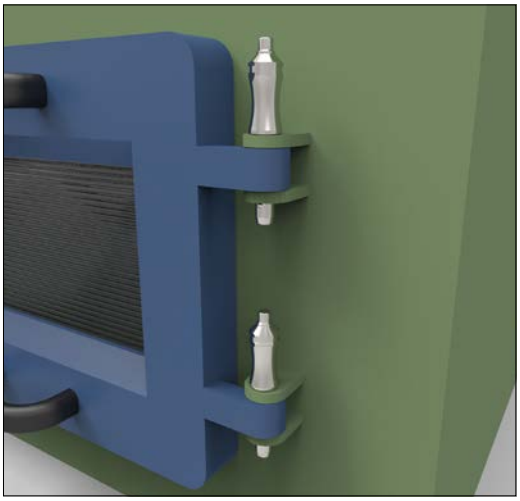
Ball lock pins on a sound rigging system. Offering secure fixing with high shear forces and easy fitting for operators at heights.

In addition full black powder coating of grip and actuation button eliminates glare from other stage lighting.



Gym Equipment





Scientific and Medical

Teknipart AN ESSENTRA COMPANY
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Wixroyd Ball Lock Pins

features

Pin Material

1.4305 (AISI 303) - shear force approx. 60% of higher material version 1.4542

1.4542 (AISI 630) - identified by the ridge on the pin

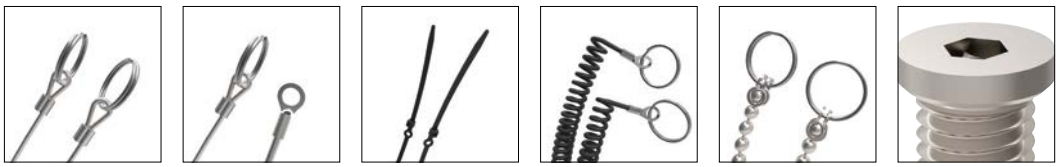
CRES 17-4PH (AMS 5643) aviation standard

Handle Style

Plastic tri-star | T-handled, metal | L-handled, metal | Mushroom, metal | Single piece metal, contoured

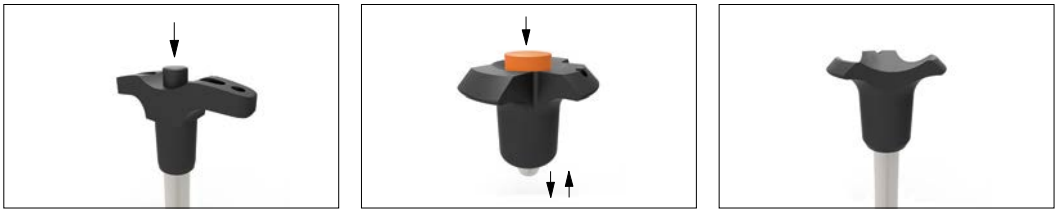
Special plastic self-spring | Adjustable grip length, plastic | Key ring | Safety, metal | Mushroom Type B aviation | Type R aviation

Lanyards and Locating Bushes



Stainless wire - (coated) - 2 x key ring | Stainless wire - Key ring and fixing loop | Plastic - 2 x cable tie | Steel wire - (coated) - 2 x key ring | Stainless bead chain - 2 x key ring | Locating bushes

Actuation



Press = unlock
Release = lock
(standard)

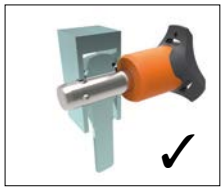
Press = unlock and position
Release = lock and simultaneous clamp

Simple spring loaded balls "pullout pin"

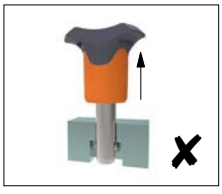
Important Note

Important Note: Ball lock pins are not suited to lifting applications!

For quick release lifting pins, see part 33400.



Shear force

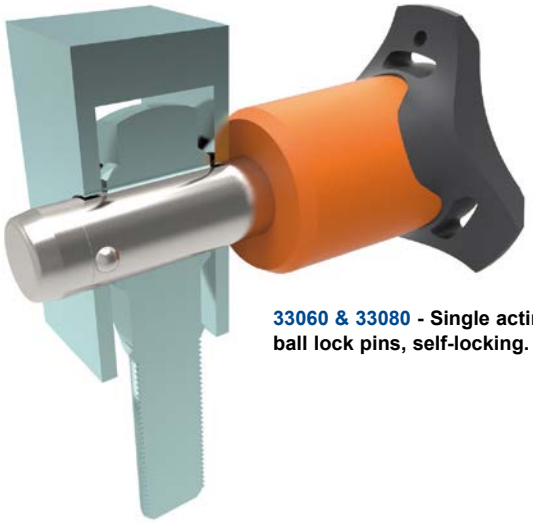


Lifting force

Special Variations

Variations on our standard designs are possible, please contact our sales team for technical assistance. Quick production on specials can be as little as 3 weeks.

ov-W33060_BK-A-TOR1706-W33250-A-TLA1066-bInh - Updated - 27-10-2022



33060 & 33080 - Single acting ball lock pins, self-locking.

33194 - Single acting ball lock pins, self locking, simple finish.

Applications

- Positioning.
- Lifting.
- Locking.
- Indexing.
- Joining.

33140 - Socket pins, non-locking, spring loaded balls.

33100 - Single acting ball lock pin, self locking.

33180 - Clamping pins, with span compensation, self-locking.

33220 - Ball lock pins, single acting - L-handle

33250 & 33270 - Lanyards.