



Clevis Joints

Stocked to DIN 71752 in steel and stainless steel. Plain clevis joints or clevis joints and pin assemblies available in right and left hand threads zinc plated steel and stainless steel.

Sizes Steel from M4 up to M48, stainless from M4 up to M27.



Pages 16 - 38

Male Clevis Joints

Stocked in zinc plated steel and stainless steel, right and left hand threads.

Sizes M6 up to M20.

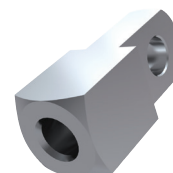


Pages 40 - 43

Clevis Mating Pieces

These are designed to fit in between our clevis joints to create a linkage where an angular offset is required. Available in zinc plated steel and stainless steel.

Sizes M4 up to M20.

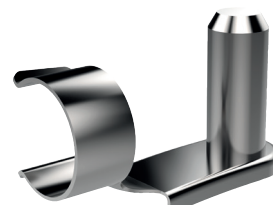


Pages 44 - 47

Clevis Retention Clips

These are the most popular type of clip used with our clevis joints. They create a neat compact assembly, only available in zinc plated steel.

Sizes Available for clevis joints from 4mm up to 20mm.

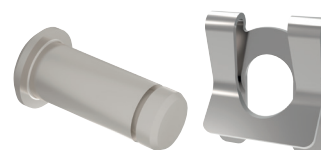


Pages 49 - 50

Clevis Pins and Clips

Various styles of pins and clips to suit clevis joints in zinc plated steel and stainless steel.

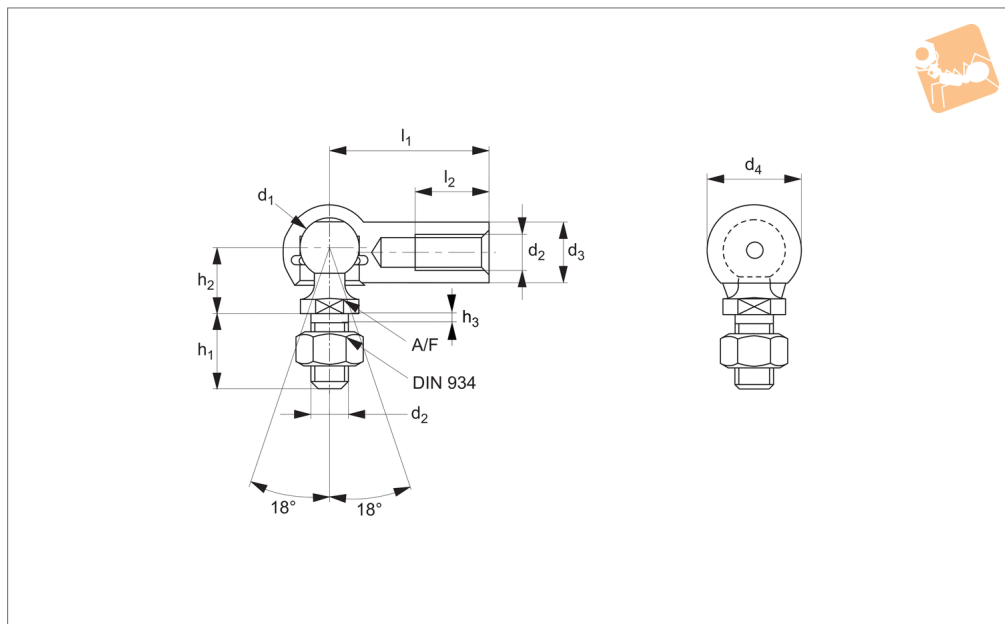
Sizes Available to suit all sizes of clevis joints we offer.



Pages 51 - 62



R3460



Material

Steel, silver zinc plated, ball stud:
minimum tensile strength $R_m=600N/mm^2$.
Housing: minimum tensile strength
 $R_m=500N/mm^2$.

Technical Notes

To DIN 71802 form CS, supplied with
hexagon nut.

Safety ring aids the retention of the ball
stud in the housing.

*M14x1,5 is a fine pitch thread.

Male Stud part is to DIN 71803 with
diameter 14, Tolerance is 11 and length is
between 5.0 - 10.8

Tips

For sealing cap version, see R3470.

Standard thread is right hand, (for left
hand thread see R3461).

Important Notes

Thread is not full length. There is a min
1.5mm unthreaded shank. If using part
without the supplied nut, then please
consider a counterbore to accommodate
the unthreaded shank.

Order No.	Thread hand	d_1	l_1 ± 0.3	d_2	d_3	d_4	h_1 ± 0.3	Weight g
R3460.R005	Right	8	22	M 5	8	12.8	10.2	15.2
R3460.R006	Right	10	25	M 6	10	14.8	12.5	25.2
R3460.R008	Right	13	30	M 8	13	19.3	16.5	53.1
R3460.R010	Right	16	35	M10	16	24.0	20.0	103.8
R3460.R012	Right	16	35	M12	16	24.0	20.0	103.8
R3460.R014	Right	19	45	M14x1,5*	22	30.0	28.0	220.9
R3460.R015	Right	19	45	M14	22	30.0	28.0	220.9
R3460.R016	Right	19	45	M16	22	30.0	28.0	220.9

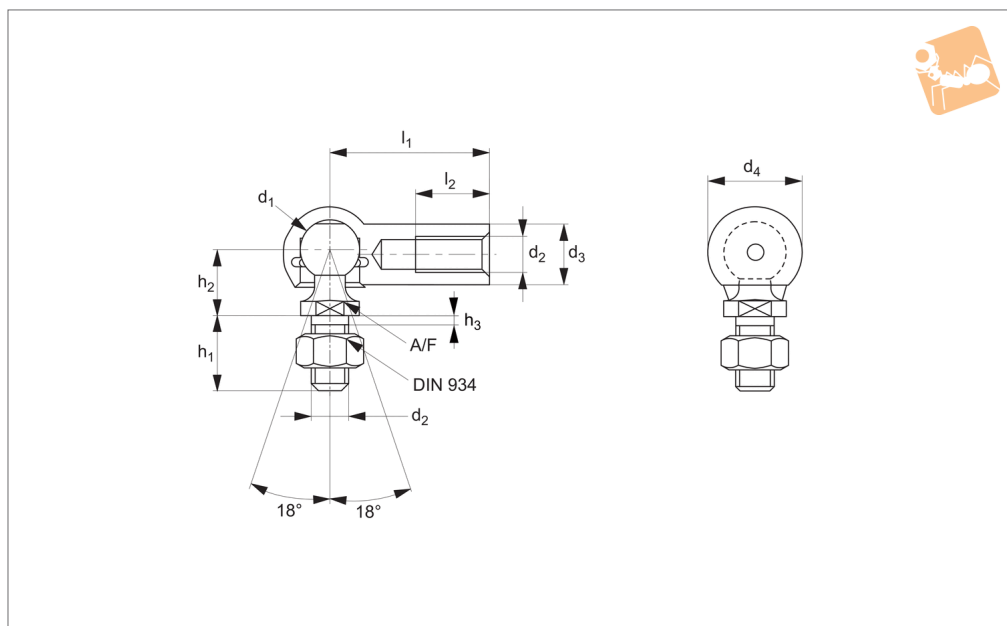
Order No.	h_2 ± 0.3	l_2 min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3460.R005	9	10.2	7	3	50	20	3
R3460.R006	11	11.5	8	4	100	40	4
R3460.R008	13	14.0	11	6	200	80	6
R3460.R010	16	15.5	13	8	400	160	8
R3460.R012	16	15.5	13	8	400	160	8
R3460.R014	22	21.5	16	10	800	320	10
R3460.R015	22	21.5	16	10	800	320	10
R3460.R016	22	21.5	16	10	800	320	10



Ball and Socket Joints

left hand thread

Ball & Socket Joints



R3461

BALL & SOCKET JOINTS

Material

Steel, silver zinc plated, ball stud:
minimum tensile strength $R_m=600N/mm^2$.
Housing: minimum tensile strength
 $R_m=500N/mm^2$.

hexagon nut.

Safety ring aids the retention of the ball
stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

Stud: right hand thread.

Housing: left hand thread.

For sealing cap version, see R3471.

Important Notes

Thread is not full length. There is a min
1.5mm unthreaded shank. If using part
without the supplied nut, then please
consider a counterbore to accommodate
the unthreaded shank.

Technical Notes

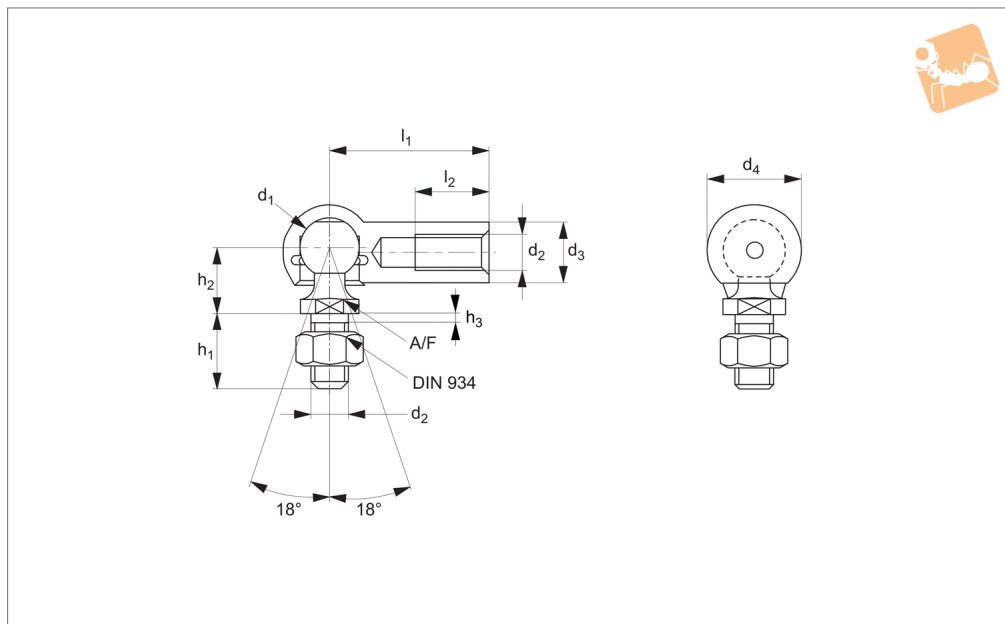
To DIN 71802 form CS, supplied with

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃	d ₄	h ₁ ±0.3	Weight g
R3461.L005	Left	8	22	M 5	8	12.8	10.2	15.2
R3461.L006	Left	10	25	M 6	10	14.8	12.5	25.2
R3461.L008	Left	13	30	M 8	13	19.3	16.5	53.1
R3461.L010	Left	16	35	M10	16	24.0	20.0	103.8
R3461.L012	Left	16	35	M12	16	24.0	20.0	103.8
R3461.L014	Left	19	45	M14x1,5*	22	30.0	28.0	220.9
R3461.L015	Left	19	45	M14	22	30.0	28.0	220.9
R3461.L016	Left	19	45	M16	22	30.0	28.0	220.9

Order No.	h ₂ ±0.3	l ₂ min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3461.L005	9	10.2	7	3	50	20	3
R3461.L006	11	11.5	8	4	100	40	4
R3461.L008	13	14.0	11	6	200	80	6
R3461.L010	16	15.5	13	8	400	160	8
R3461.L012	16	15.5	13	8	400	160	8
R3461.L014	22	21.5	16	10	800	320	10
R3461.L015	22	21.5	16	10	800	320	10
R3461.L016	22	21.5	16	10	800	320	10



R3466



Material

Stainless steel (A2, AISI 303).

Technical Notes

To DIN 71802 form CS, supplied with hexagon nut.

Safety ring aids the retention of the ball

stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

For sealing cap version, see R3476, standard thread is right hand, (for left hand thread see R3467).

Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃	d ₄	h ₁ ±0.3	Weight g
R3466.R005	Right	8	22	M 5	8	12.8	10.2	15.2
R3466.R006	Right	10	25	M 6	10	14.8	12.5	25.2
R3466.R008	Right	13	30	M 8	13	19.3	16.5	53.1
R3466.R010	Right	16	35	M10	16	24.0	20.0	103.8
R3466.R012	Right	16	35	M12	16	24.0	20.0	103.8
R3466.R014	Right	19	45	M14x1,5*	22	30.0	28.0	220.9
R3466.R015	Right	19	45	M14	22	30.0	28.0	220.9
R3466.R016	Right	19	45	M16	22	30.0	28.0	220.9

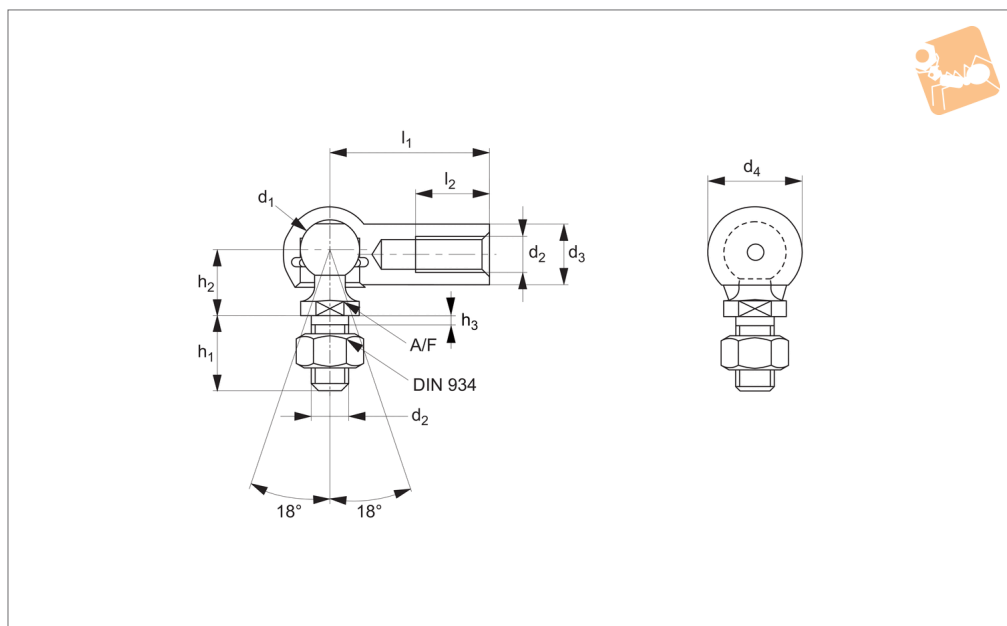
Order No.	h ₂ ±0.3	l ₂ min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3466.R005	9	10.2	7	3	50	20	3
R3466.R006	11	11.5	8	4	100	40	4
R3466.R008	13	14.0	11	6	200	80	6
R3466.R010	16	15.5	13	8	400	160	8
R3466.R012	16	15.5	13	8	400	160	8
R3466.R014	22	21.5	16	10	800	320	10
R3466.R015	22	21.5	16	10	800	320	10
R3466.R016	22	21.5	16	10	800	320	10



Stainless Ball and Socket Joints

left hand thread

Ball & Socket Joints



R3467

BALL & SOCKET JOINTS

Material

Stainless steel (A2, AISI 303).

Technical Notes

To DIN 71802 form CS, supplied with hexagon nut.

Safety ring aids the retention of the ball

stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

Stud: right hand thread.

Housing: left hand thread

For sealing cap version, see R3477.

Important Notes

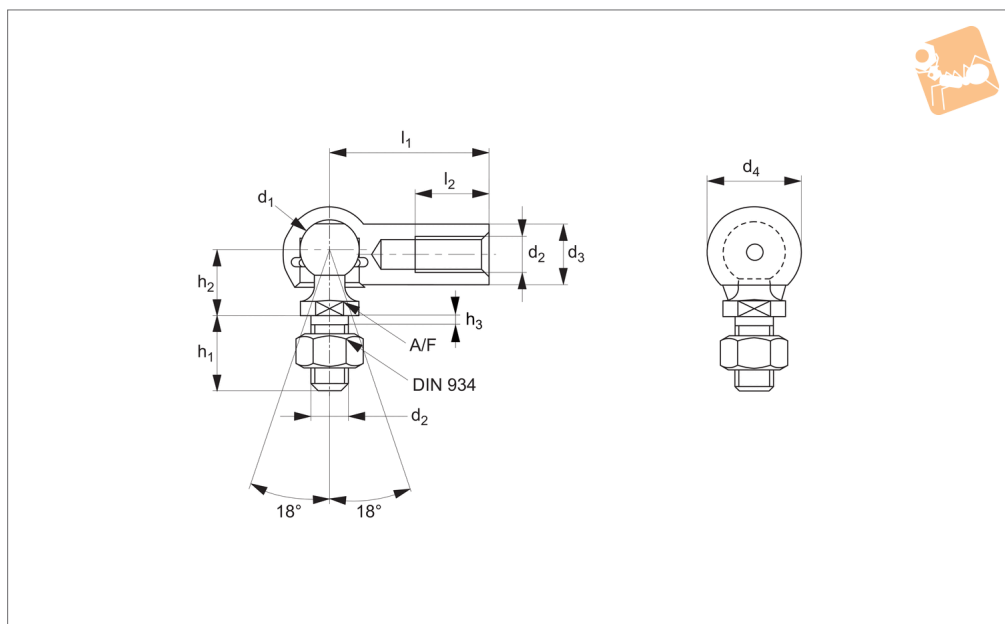
Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃	d ₄	h ₁ ±0.3	Weight g
R3467.L005	Left	8	22	M 5	8	12.8	10.2	15.2
R3467.L006	Left	10	25	M 6	10	14.8	12.5	25.2
R3467.L008	Left	13	30	M 8	13	19.3	16.5	53.1
R3467.L010	Left	16	35	M10	16	24.0	20.0	103.8
R3467.L012	Left	16	35	M12	16	24.0	20.0	103.8
R3467.L014	Left	19	45	M14x1,5*	22	30.0	28.0	220.9
R3467.L015	Left	19	45	M14	22	30.0	28.0	220.9
R3467.L016	Left	19	45	M16	22	30.0	28.0	220.9

Order No.	h ₂ ±0.3	l ₂ min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3467.L005	9	10.2	7	3	50	20	3
R3467.L006	11	11.5	8	4	100	40	4
R3467.L008	13	14.0	11	6	200	80	6
R3467.L010	16	15.5	13	8	400	160	8
R3467.L012	16	15.5	13	8	400	160	8
R3467.L014	22	21.5	16	10	800	320	10
R3467.L015	22	21.5	16	10	800	320	10
R3467.L016	22	21.5	16	10	800	320	10



R3468



Material

Stainless steel (A4, AISI 316).

Technical Notes

To DIN 71802 form CS, supplied with hexagon nut.

Safety ring aids the retention of the ball

stud in the housing.

Tips

For sealing cap version, see R3476, standard thread is right hand, (for left hand thread see R3467).

Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

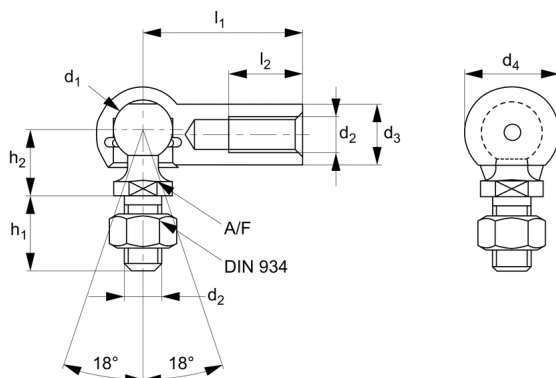
Order No.	Thread hand	d_1	l_1 ± 0.3	d_2	d_3	d_4	h_1 ± 0.3	Weight g
R3468.R005	Right	8	22	M 5	8	12.8	10.2	15.2
R3468.R006	Right	10	25	M 6	10	14.8	12.5	25.2
R3468.R008	Right	13	30	M 8	13	19.3	16.5	53.1
R3468.R010	Right	16	35	M10	16	24.0	20.0	103.8

Order No.	h_2 ± 0.3	l_2 min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3468.R005	9	10.2	7	3	50	20	3
R3468.R006	11	11.5	8	4	100	40	4
R3468.R008	13	14.0	11	6	200	80	6
R3468.R010	16	15.5	13	8	400	160	8



Ball and Socket Joints with sealing cap

Ball & Socket Joints



R3470

BALL & SOCKET JOINTS

Material

Steel, silver zinc plated, ball stud: steel minimum tensile strength $R_m=600N/mm^2$.
Housing: steel minimum tensile strength $R_m=500N/mm^2$, sealing cap: neoprene.

hexagon nut.

Safety ring aids the retention of the ball stud in the housing.

*M14x1,5 is a fine pitch thread.

Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Technical Notes

To DIN 71802 form CS, supplied with

Tips

Standard thread is right hand, (for left hand thread see R3471).

Order No.	Thread hand	d_1	l_1 ± 0.3	d_2	d_3	d_4	h_1 ± 0.3	Weight g
R3470.R005	Right	8	22	M 5	8	12.8	10.2	15.2
R3470.R006	Right	10	25	M 6	10	14.8	12.5	25.2
R3470.R008	Right	13	30	M 8	13	19.3	16.5	53.1
R3470.R010	Right	16	35	M10	16	24.0	20.0	103.8
R3470.R012	Right	16	35	M12	16	24.0	20.0	103.8
R3470.R014	Right	19	45	M14x1,5*	22	30.0	28.0	220.9
R3470.R015	Right	19	45	M14	22	30.0	28.0	220.9
R3470.R016	Right	19	45	M16	22	30.0	28.0	220.9

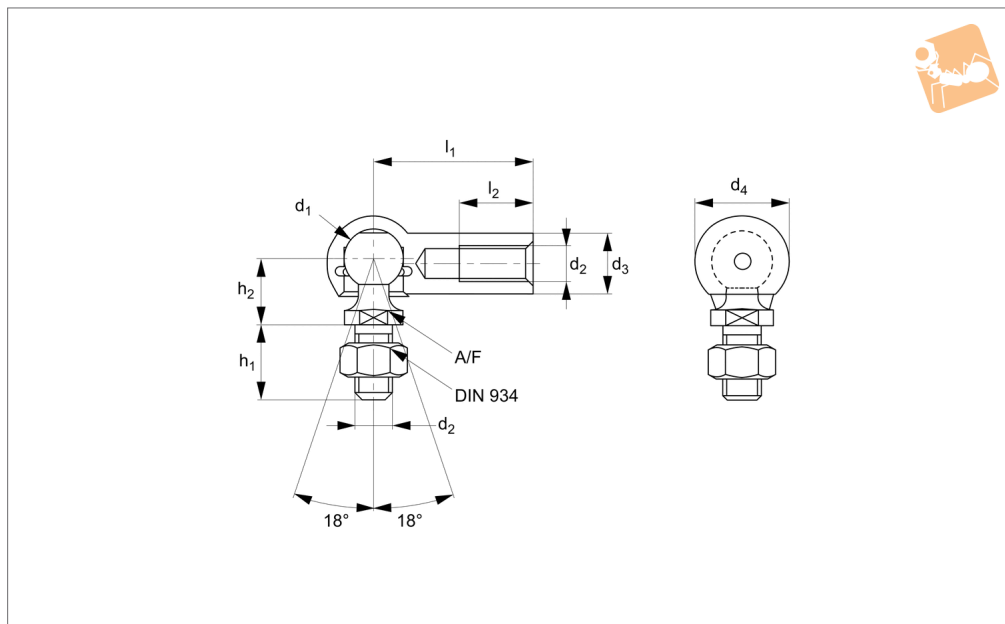
Order No.	h_2 ± 0.3	l_2 min.	A/F tol. h_{14}	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3470.R005	9	10.2	7	3	50	20	3
R3470.R006	11	11.5	8	4	100	40	4
R3470.R008	13	14.0	11	6	200	80	6
R3470.R010	16	15.5	13	8	400	160	8
R3470.R012	16	15.5	13	8	400	160	8
R3470.R014	22	21.5	16	10	800	320	10
R3470.R015	22	21.5	16	10	800	320	10
R3470.R016	22	21.5	16	10	800	320	10

Ball & Socket Joints

Ball and Socket Joints with sealing cap - left hand thread



R3471



Material

Silver zinc plated, ball stud: minimum tensile strength $R_m=600N/mm^2$.
Housing: minimum tensile strength $R_m=500N/mm^2$, sealing cap: Neoprene.

hexagon nut.

Safety ring aids the retention of the ball stud in the housing.

*M14x1,5 is a fine pitch thread.

Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Technical Notes

To DIN 71802 form CS, supplied with

Tips

Stud: right hand thread.

Housing: left hand thread

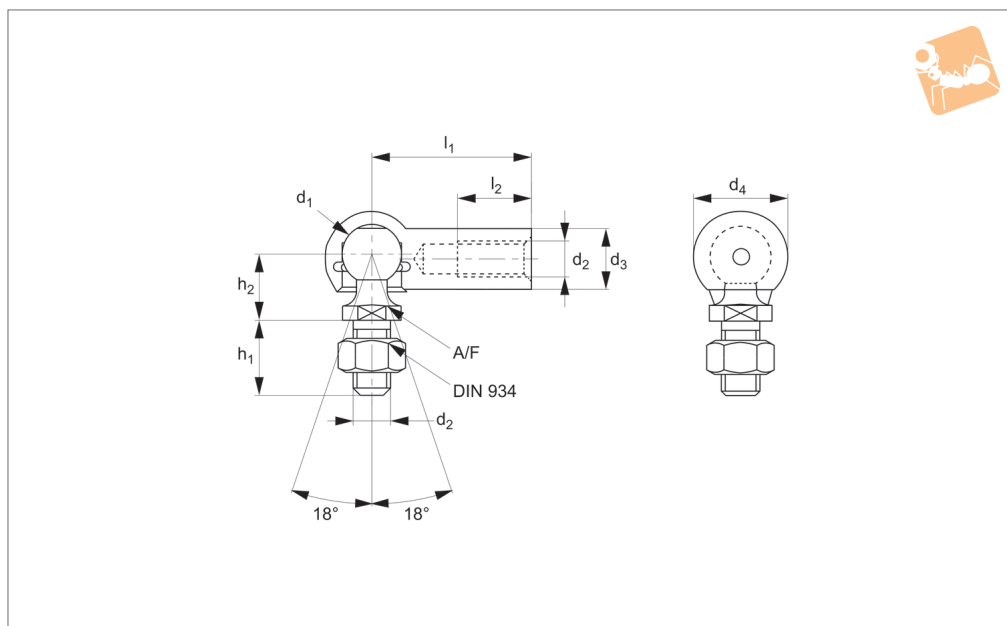
Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃	d ₄	h ₁ ±0.3	Weight g
R3471.L005	Left	8	22	M 5	8	12.8	10.2	15.2
R3471.L006	Left	10	25	M 6	10	14.8	12.5	25.2
R3471.L008	Left	13	30	M 8	13	19.3	16.5	53.1
R3471.L010	Left	16	35	M10	16	24.0	20.0	103.8
R3471.L012	Left	16	35	M12	16	24.0	20.0	103.8
R3471.L014	Left	19	45	M14x1,5*	22	30.0	28.0	220.9
R3471.L015	Left	19	45	M14	22	30.0	28.0	220.9
R3471.L016	Left	19	45	M16	22	30.0	28.0	220.9

Order No.	h ₂ ±0.3	l ₂ min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3471.L005	9	10.2	7	3	50	20	3
R3471.L006	11	11.5	8	4	100	40	4
R3471.L008	13	14.0	11	6	200	80	6
R3471.L010	16	15.5	13	8	400	160	8
R3471.L012	16	15.5	13	8	400	160	8
R3471.L014	22	21.5	16	10	800	320	10
R3471.L015	22	21.5	16	10	800	320	10
R3471.L016	22	21.5	16	10	800	320	10



Stainless Ball and Socket Joint with sealing cap

Ball & Socket Joints



R3476

BALL & SOCKET JOINTS

Material

Stainless steel (A2, AISI 303), sealing cap: neoprene.

Technical Notes

Supplied with hexagon nut.

Safety ring aids the retention of the ball

stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

Standard thread is right hand, (for left hand see R3477).

Important Notes

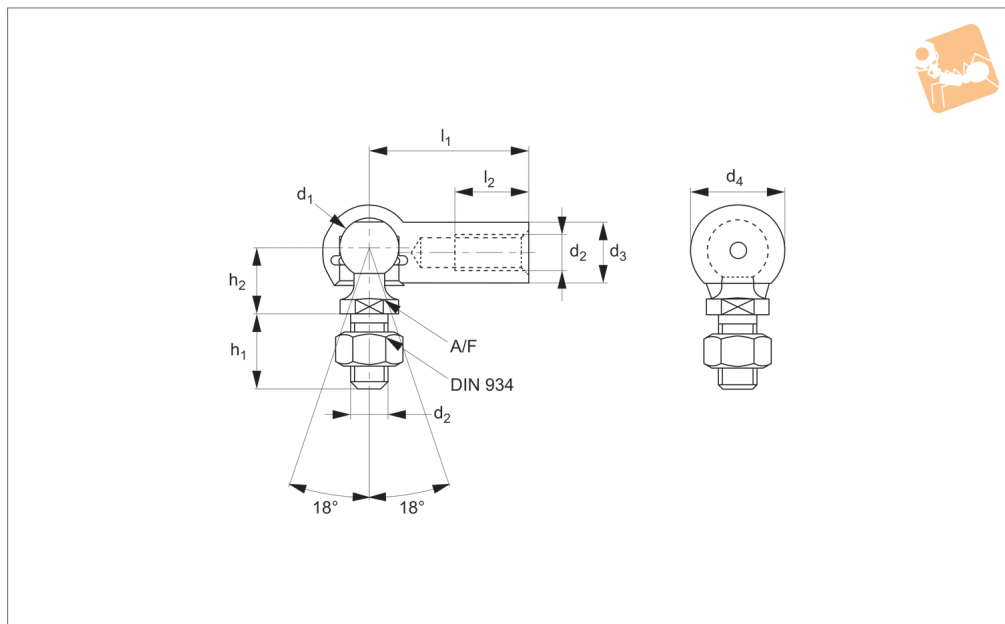
Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃	d ₄	h ₁ ±0.3	Weight g
R3476.R005	Right	8	22	M 5	8	12.8	10.2	15.2
R3476.R006	Right	10	25	M 6	10	14.8	12.5	25.2
R3476.R008	Right	13	30	M 8	13	19.3	16.5	53.1
R3476.R010	Right	16	35	M10	16	24.0	20.0	103.8
R3476.R012	Right	16	35	M12	16	24.0	20.0	103.8
R3476.R014	Right	19	45	M14x1,5*	22	30.0	28.0	220.9
R3476.R015	Right	19	45	M14	22	30.0	28.0	220.9
R3476.R016	Right	19	45	M16	22	30.0	28.0	220.9

Order No.	h ₂ ±0.3	l ₂ min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3476.R005	9	10.2	7	3	50	20	3
R3476.R006	11	11.5	8	4	100	40	4
R3476.R008	13	14.0	11	6	200	80	6
R3476.R010	16	15.5	13	8	400	160	8
R3476.R012	16	15.5	13	8	400	160	8
R3476.R014	22	21.5	16	10	800	320	10
R3476.R015	22	21.5	16	10	800	320	10
R3476.R016	22	21.5	16	10	800	320	10



R3477



Material

Stainless steel (A2, AISI 303), sealing cap: neoprene.

Technical Notes

Supplied with hexagon nut.

Safety ring aids the retention of the ball

stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

Stud: right hand thread.

Housing: left hand thread

Important Notes

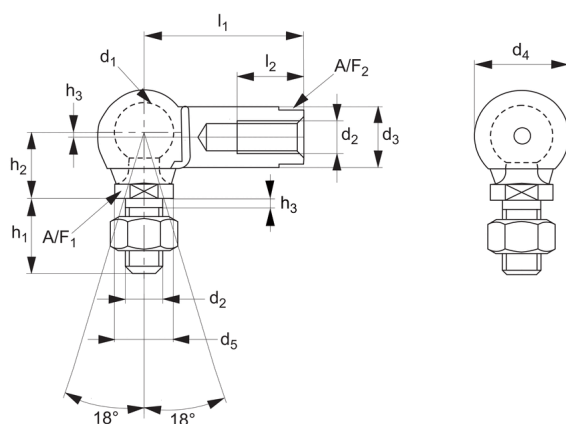
Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃	d ₄	h ₁ ±0.3	Weight g
R3477.L005	Left	8	22	M 5	8	12.8	10.2	15.2
R3477.L006	Left	10	25	M 6	10	14.8	12.5	25.2
R3477.L008	Left	13	30	M 8	13	19.3	16.5	53.1
R3477.L010	Left	16	35	M10	16	24.0	20.0	103.8
R3477.L012	Left	16	35	M12	16	24.0	20.0	103.8
R3477.L014	Left	19	45	M14x1,5*	22	30.0	28.0	220.9
R3477.L015	Left	19	45	M14	22	30.0	28.0	220.9
R3477.L016	Left	19	45	M16	22	30.0	28.0	220.9

Order No.	h ₂ ±0.3	l ₂ min.	A/F tol. h14	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3477.L005	9	10.2	7	3	50	20	3
R3477.L006	11	11.5	8	4	100	40	4
R3477.L008	13	14.0	11	6	200	80	6
R3477.L010	16	15.5	13	8	400	160	8
R3477.L012	16	15.5	13	8	400	160	8
R3477.L014	22	21.5	16	10	800	320	10
R3477.L015	22	21.5	16	10	800	320	10
R3477.L016	22	21.5	16	10	800	320	10

Ball and Socket Joint with flats on housing

Ball & Socket Joints



R3490

Material

Stud: carbon steel, sealing cap: neoprene.
Housing: steel (9sMnPB28), silver zinc plated.

Technical Notes

To DIN 71802 form CS, supplied without hexagon nut.

Safety ring aids the retention of the ball stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

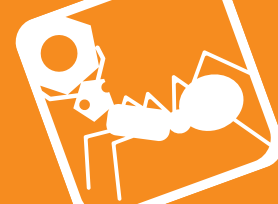
Standard thread is right hand, (for left hand thread see R3491).

Important Notes

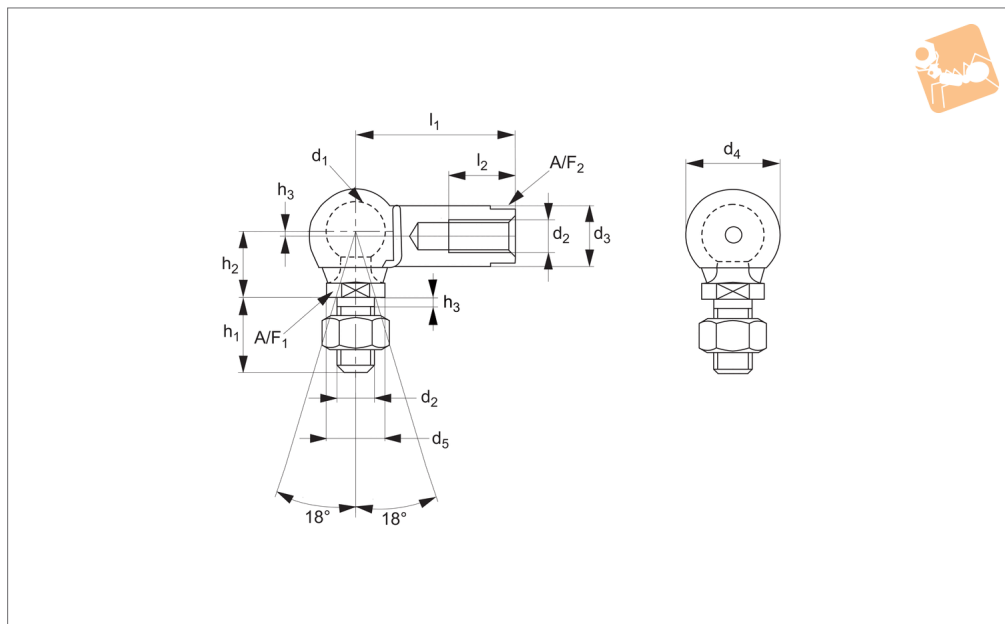
Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without a nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃ ±0.5	d ₄ ±0.5	d ₅ ±0.5	Weight g
R3490.R005	Right	8	22	M 5	8	12.8	8	15.2
R3490.R006	Right	10	25	M 6	10	14.8	10	25.2
R3490.R008	Right	13	30	M 8	13	19.3	13	53.1
R3490.R010	Right	16	35	M10	16	24.0	16	103.8
R3490.R012	Right	16	35	M12	16	24.0	16	103.8
R3490.R014	Right	19	45	M14x1,5*	22	30.0	22	220.9
R3490.R015	Right	19	45	M14	22	30.0	22	220.9
R3490.R016	Right	19	45	M16	22	30.0	22	220.9

Order No.	h ₁ ±0.3	h ₂ ±0.3	h ₃	l ₂ min.	A/F ₁	A/F ₂	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3490.R005	10.0	9	0.65	10.2	7	-	3	50	20	3
R3490.R006	12.5	11	0.70	11.5	8	-	4	100	40	4
R3490.R008	16.5	13	1.15	14.0	11	-	6	200	80	6
R3490.R010	20.0	16	1.15	15.5	13	-	8	400	160	8
R3490.R012	20.0	16	1.15	15.5	13	-	8	400	160	8
R3490.R014	28.0	20	0.50	21.5	16	19	10	800	320	10
R3490.R015	28.0	20	0.50	21.5	16	19	10	800	320	10
R3490.R016	28.0	20	0.50	21.5	16	19	10	800	320	10



R3491



Material

Stud: carbon steel, sealing cap: neoprene.
Housing: steel (9sMnPb28), silver zinc plated.

Technical Notes

To DIN 71802 form CS, supplied with hexagon nut.

Safety ring aids the retention of the ball stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

Stud: right hand thread.

Housing: left hand thread

Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

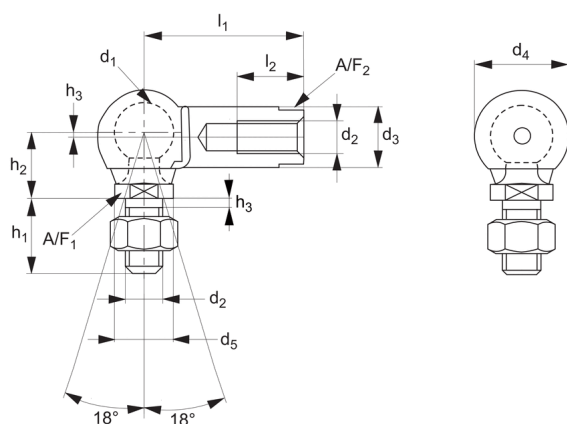
Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃ ±0.5	d ₄ ±0.5	d ₅ ±0.5	Weight g
R3491.L005	Left	8	22	M5	8	12.8	8	15.2
R3491.L006	Left	10	25	M6	10	14.8	10	25.2
R3491.L008	Left	13	30	M8	13	19.3	13	53.1
R3491.L010	Left	16	35	M10	16	24.0	16	103.8
R3491.L012	Left	16	35	M12	16	24.0	16	103.8
R3491.L014	Left	19	45	M14x1,5	22	30.0	22	220.9
R3491.L015	Left	19	45	M14	22	30.0	22	220.9
R3491.L016	Left	19	45	M16	22	30.0	22	220.9

Order No.	h ₁ ±0.3	h ₂ ±0.3	h ₃	l ₂ min.	A/F ₁	A/F ₂	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3491.L005	10.0	9	0.65	10.2	7	-	3	50	20	3
R3491.L006	12.5	11	0.70	11.5	8	-	4	100	40	4
R3491.L008	16.5	13	1.15	14.0	11	-	6	200	80	6
R3491.L010	20.0	16	1.15	15.5	13	-	8	400	160	8
R3491.L012	20.0	16	1.15	15.5	13	-	8	400	160	8
R3491.L014	28.0	20	0.50	21.5	16	19	10	800	320	10
R3491.L015	28.0	20	0.50	21.5	16	19	10	800	320	10
R3491.L016	28.0	20	0.50	21.5	16	19	10	800	320	10



Stainless Ball and Socket Joint with flats on housing

Ball & Socket Joints



R3496

BALL & SOCKET JOINTS

Material

Stainless steel (A2, AISI 303), sealing cap: neoprene.

Technical Notes

To DIN 71802 form CS, supplied with hexagon nut.

Safety ring aids the retention of the ball

stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

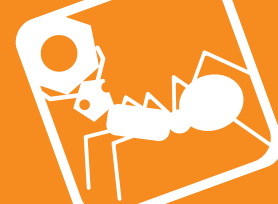
Standard thread is right hand, (for left hand thread see R3497).

Important Notes

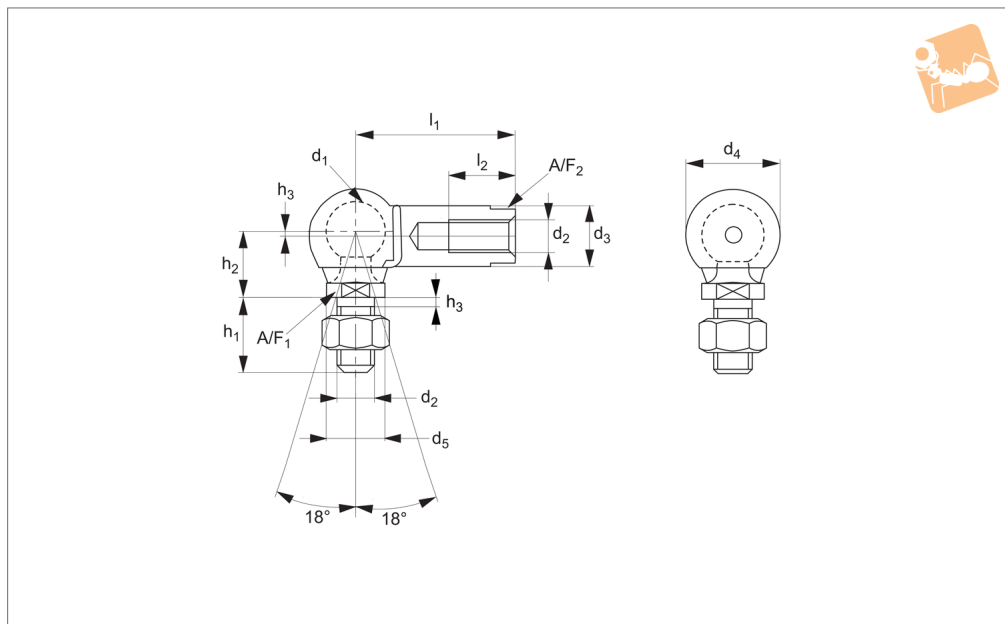
Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃ ±0.5	d ₄ ±0.5	d ₅ ±0.5	h ₁ ±0.3	h ₂ ±0.3	h ₃	Weight g
R3496.R005	Right	8	22	M5	8	12.8	8	10.0	9	0.65	15.2
R3496.R006	Right	10	25	M6	10	14.8	10	12.5	11	0.70	25.2
R3496.R008	Right	13	30	M8	13	19.3	13	16.5	13	1.15	53.1
R3496.R010	Right	16	35	M10	16	24.0	16	20.0	16	1.15	103.8
R3496.R012	Right	16	35	M12	16	24.0	16	20.0	16	1.15	103.8
R3496.R014	Right	19	45	M14x1,5*	22	30.0	22	28.0	20	0.50	220.9
R3496.R015	Right	19	45	M14	22	30.0	22	28.0	20	0.50	220.9
R3496.R016	Right	19	45	M16	22	30.0	22	28.0	20	0.50	220.9

Order No.	l ₂ min.	A/F ₁	A/F ₂	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3496.R005	10.2	7	-	3	50	20	3
R3496.R006	11.5	8	-	4	100	40	4
R3496.R008	14.0	11	-	6	200	80	6
R3496.R010	15.5	13	-	8	400	160	8
R3496.R012	15.5	13	-	8	400	160	8
R3496.R014	21.5	16	19	10	800	320	10
R3496.R015	21.5	16	19	10	800	320	10
R3496.R016	21.5	16	19	10	800	320	10



R3497



Material

Stainless steel (A2, AISI 303), sealing cap: neoprene.

Technical Notes

To DIN 71802 form CS, supplied with hexagon nut.

Safety ring aids the retention of the ball stud in the housing.

*M14x1,5 is a fine pitch thread.

Tips

Stud: right hand thread.

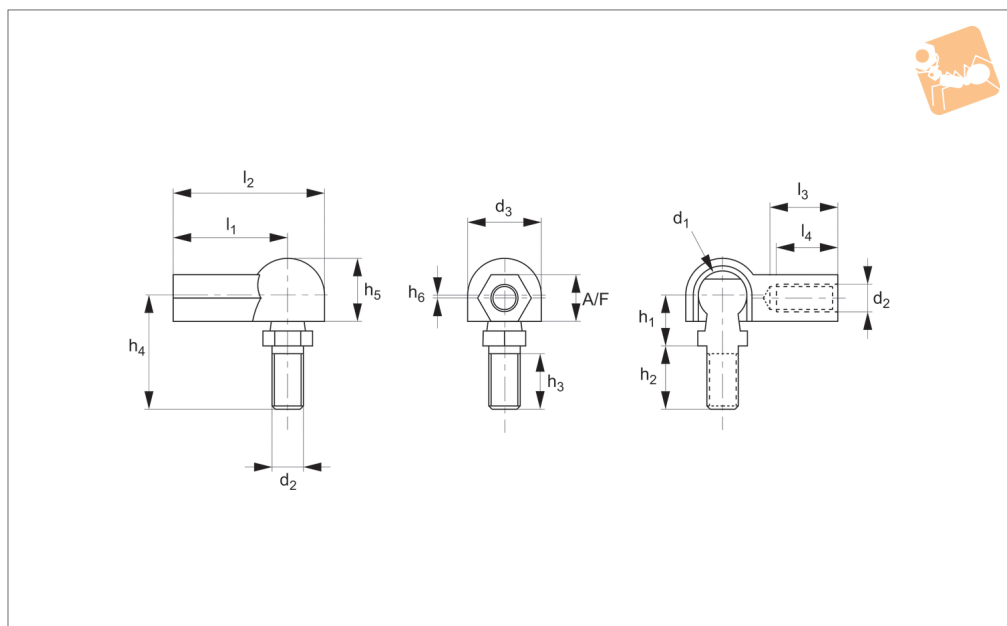
Housing: left hand thread

Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁ ±0.3	d ₂	d ₃ ±0.5	d ₄ ±0.5	d ₅ ±0.5	h ₁ ±0.3	h ₂ ±0.3	h ₃	Weight g
R3497.L005	Left	8	22	M5	8	12.8	8	10.0	9	0.65	15.2
R3497.L006	Left	10	25	M6	10	14.8	10	12.5	11	0.70	25.2
R3497.L008	Left	13	30	M8	13	19.3	13	16.5	13	1.15	53.1
R3497.L010	Left	16	35	M10	16	24.0	16	20.0	16	1.15	103.8
R3497.L012	Left	16	35	M12	16	24.0	16	20.0	16	1.15	103.8
R3497.L014	Left	19	45	M14x1,5*	22	30.0	22	28.0	20	0.50	220.9
R3497.L015	Left	19	45	M14	22	30.0	22	28.0	20	0.50	220.9
R3497.L016	Left	19	45	M16	22	30.0	22	28.0	20	0.50	220.9

Order No.	l ₂ min.	A/F ₁	A/F ₂	Extraction force kg min.	Static load kg max.	Dyn. load C kg max.	Force required for movement kg max.
R3497.L005	10.2	7	-	3	50	20	3
R3497.L006	11.5	8	-	4	100	40	4
R3497.L008	14.0	11	-	6	200	80	6
R3497.L010	15.5	13	-	8	400	160	8
R3497.L012	15.5	13	-	8	400	160	8
R3497.L014	21.5	16	19	10	800	320	10
R3497.L015	21.5	16	19	10	800	320	10
R3497.L016	21.5	16	19	10	800	320	10



R3520

Material

Housing: Black plastic (Igumid G).
Stud: Steel, silver zinc plated.

Technical Notes

Low weight.
Maintenance free.

Tips

Thread. Stud: Right Hand. Housing: .L for left hand, .R for right hand

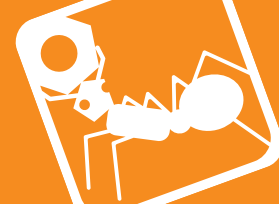
Important Notes

Plastic stud available on request, (add -PS to part number). Thread is not full

length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread (housing)	d ₁ ±0.1	l ₁ ±0.3	d ₂	d ₃ ±0.5	h ₁ ±0.2	h ₂ ±0.3	h ₃ min.	h ₄ ±0.5	h ₅ ±0.4	Weight g
R3520.R005	Right	8.0	22.0	M 5	12.8	9.0	10.2	8.2	25.6	10.8	2.6
R3520.R006	Right	10.0	25.0	M 6	14.8	11.0	12.5	10.5	30.9	12.3	4.0
R3520.R008	Right	13.0	30.0	M 8	19.3	13.0	16.5	13.5	38.8	16.2	8.2
R3520.R010	Right	16.0	35.0	M10	24.0	16.0	20.0	16.0	47.0	20.0	13.8
R3520.L005	Left	8.0	22.0	M 5	12.8	9.0	10.2	8.2	25.6	10.8	2.6
R3520.L006	Left	10.0	25.0	M 6	14.8	11.0	12.5	10.5	30.9	12.3	4.0
R3520.L008	Left	13.0	30.0	M 8	19.3	13.0	16.5	13.5	38.8	16.2	8.2
R3520.L010	Left	16.0	35.0	M10	24.0	16.0	20.0	16.0	47.0	20.0	13.8

Order No.	h ₆ ±0.5	l ₂ ±0.5	l ₃	l ₄ ±0.5	A/F	Recommended pivot angle	Pivot angle max.
R3520.R005	0.65	28.4	14.0	11.0	8	18°	25°
R3520.R006	0.70	32.4	16.0	13.0	9	18°	25°
R3520.R008	1.15	39.7	18.0	16.0	12	18°	25°
R3520.R010	1.15	47.0	20.0	18.0	14	18°	25°
R3520.L005	0.65	28.4	14.0	11.0	8	18°	25°
R3520.L006	0.70	32.4	16.0	13.0	9	18°	25°
R3520.L008	1.15	39.7	18.0	16.0	12	18°	25°
R3520.L010	1.15	47.0	20.0	18.0	14	18°	25°



Ball and Socket Joints

Ball and socket joints to DIN 71802 available in zinc plated steel and stainless steel. Right and left hand threads available.

Sizes M5 up to M16.



Pages 65 - 68

Ball and Socket Joints - with sealing caps

Ball and socket joints to DIN 71802 available in zinc plated steel and stainless steel. Right and left hand threads available.

Sizes M5 up to M16.



Pages 69 - 72

Ball and Socket Joints - with sealing caps and spanner flats

Ball and socket joints to DIN 71802 available in zinc plated steel and stainless steel. Right and left hand threads available. Spanner flats on housing to aid installation.

Sizes M5 up to M16.



Pages 73 - 76

Axial Ball and Socket Joints

In-line ball and socket joints to DIN 71802 available in zinc plated steel and stainless steel.

Sizes M5 up to M14 x 1,5.



Pages 77 - 80

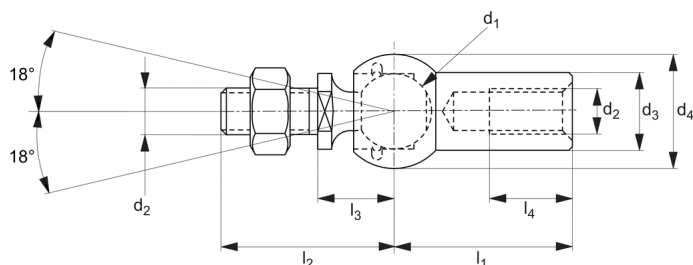
Threaded Ball Studs

Threaded ball studs to DIN 71803 form C available in zinc plated steel.

Sizes M5 up to M14.



Pages 87



R3500

Material

Steel, silver zinc plated, ball stud:
minimum tensile strength $R_m=600\text{N/mm}^2$.
Housing: minimum tensile strength
 $R_m=500\text{N/mm}^2$.

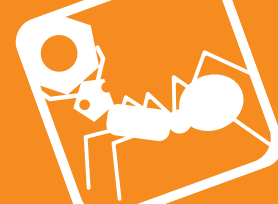
Technical Notes

Similar to DIN 71802, *M14x1,5 is a fine pitch thread.

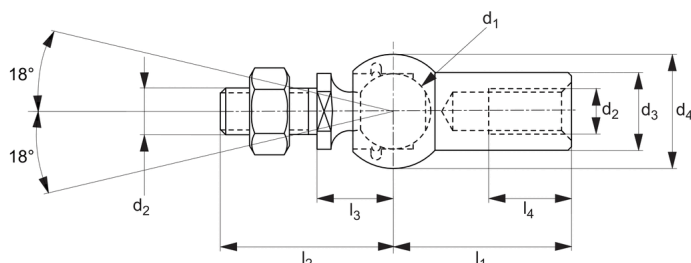
Tips

Standard thread is right hand, (for left hand thread see R3501).
For stainless steel version see R3506.

Order No.	Thread hand	d_1 tol. h9	d_2	l_1	d_3 ± 0.5	d_4 ± 0.5	l_2	l_3	l_4	Extraction force N	Weight g
R3500.R005	Right	8	M 5	22	8	12.8	19.2	9	10.2	30	15.2
R3500.R006	Right	10	M 6	25	10	14.8	23.5	11	11.5	40	25.2
R3500.R008	Right	13	M 8	30	13	19.3	29.5	13	14.0	60	53.1
R3500.R010	Right	16	M10	35	16	24.0	36.0	16	15.5	80	103.8
R3500.R014	Right	19	M14x1,5*	45	22	30.0	48.0	20	21.5	100	220.9



R3501



Material

Steel, silver zinc plated, ball stud:
minimum tensile strength $R_m=600N/mm^2$.
Housing: minimum tensile strength

$R_m=500N/mm^2$.

Technical Notes

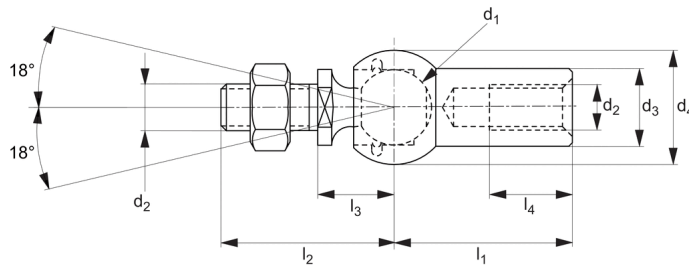
Similar to DIN 71802, *M14x1,5 is a fine

pitch thread.

Tips

For stainless steel version see R3507.

Order No.	Thread hand	d_1 tol. h9	d_2	l_1	d_3 ± 0.5	d_4 ± 0.5	l_2	l_3	l_4	Extraction force N	Weight g
R3501.L005	Left	8	M5	22	8	12.8	19.2	9	10.2	30	15.2
R3501.L006	Left	10	M6	25	10	14.8	23.5	11	11.5	40	25.2
R3501.L008	Left	13	M8	30	13	19.3	29.5	13	14.0	60	53.1
R3501.L010	Left	16	M10	35	16	24.0	36.0	16	15.5	80	103.8
R3501.L014	Left	19	M14x1,5*	45	22	30.0	48.0	20	21.5	100	220.9



R3506

Material

Stainless steel (AISI 303).

pitch thread.

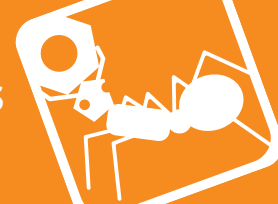
Technical Notes

Similar to DIN 71802, *M14x1,5 is a fine

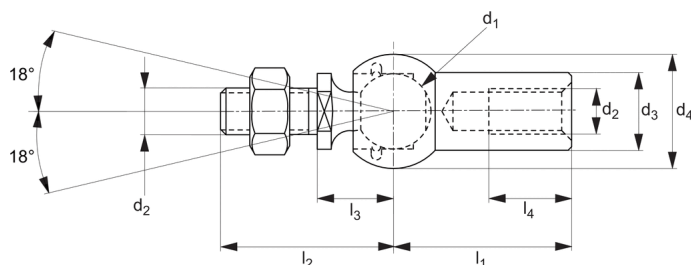
Tips

Standard thread is right hand, (for left hand thread see R3507).

Order No.	Thread hand	d ₁ tol. h9	d ₂	l ₁	d ₃ ±0.5	d ₄ ±0.5	l ₂	l ₃	l ₄	Extraction force N	Weight g
R3506.R005	Right	8	M5	22	8	12.8	19.2	9	10.2	30	15.2
R3506.R006	Right	10	M6	25	10	14.8	23.5	11	11.5	40	25.2
R3506.R008	Right	13	M8	30	13	19.3	29.5	13	14.0	60	53.1
R3506.R010	Right	16	M10	35	16	24.0	36.0	16	15.5	80	103.8
R3506.R014	Right	19	M14x1,5*	45	22	30.0	48.0	20	21.5	100	220.9



R3507



Material

Stainless steel (AISI 303).

Technical Notes

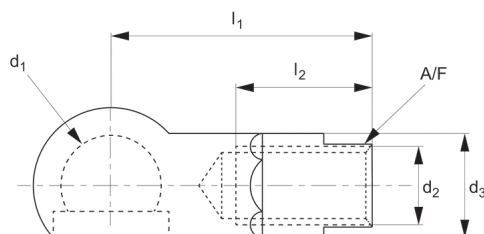
Similar to DIN 71802, *M14x1,5 is a fine pitch thread.

Order No.	Thread hand	d ₁ tol. h9	d ₂	l ₁	d ₃ ±0.5	d ₄ ±0.5	l ₂	l ₃	l ₄	Extraction force N	Weight g
R3507.L005	Left	8	M5	22	8	12.8	19.2	9	10.2	30	15.2
R3507.L006	Left	10	M6	25	10	14.8	23.5	11	11.5	40	25.2
R3507.L008	Left	13	M8	30	13	19.3	29.5	13	14.0	60	53.1
R3507.L010	Left	16	M10	35	16	24.0	36.0	16	15.5	80	103.8
R3507.L014	Left	19	M14x1,5*	45	22	30.0	48.0	20	21.5	100	220.9



Ball Joint - Housing Only

Ball & Socket Joints



R3524

BALL & SOCKET JOINTS

Material

Low carbon steel, silver zinc plated.

Technical Notes

To DIN 71802.

Tips

Standard thread is right hand thread.

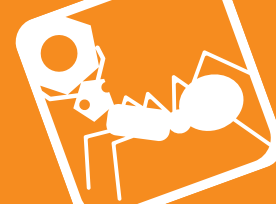
Important Notes

These ball joints are used in light linkage applications where it is desired to have the ability to be able to remove the ball stud.

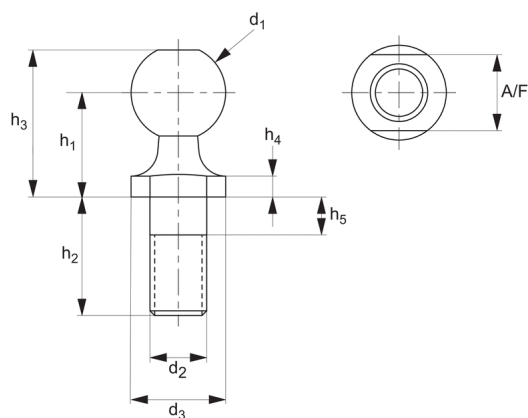
The ball joint is supplied WITHOUT the ball stud and retaining clip.

Order No.	Thread hand	d_1	d_2	l_1	l_2	d_3	A/F
R3524.R005	Right	8	M 5	22	10.2	8	7
R3524.R006	Right	10	M 6	25	11.5	10	9
R3524.R008	Right	13	M 8	30	14.0	13	11
R3524.R010	Right	16	M10	35	15.5	16	13
R3524.R012	Right	16	M12	35	15.5	16	13





R3526



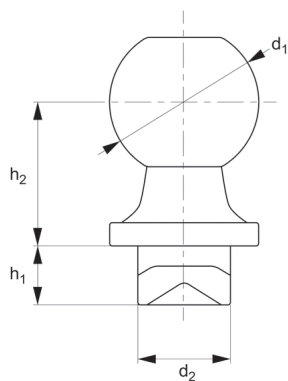
Material

Low carbon steel (1018), silver zinc plated.

Technical Notes

To DIN 71803 Form C, *M14x1.5 is a fine pitch thread.

Order No.	d ₁ tol. h9	d ₂	d ₃ +0.0 -0.2	h ₁ ±0.3	h ₂ ±0.3	h ₃ ±0.3	h ₄ +0.4 -0.0	h ₅ max.	A/F	Weight g
R3526.005	8.0	M5	8.0	9.0	10.2	12.5	2.0	4.0	7.0	4.5
R3526.006	10.0	M6	10.0	11.0	12.5	15.5	2.2	4.0	8.0	8.5
R3526.008	13.0	M8	13.0	13.0	16.5	18.5	2.4	5.3	11.0	17.7
R3526.010	16.0	M10	16.0	16.0	20.0	23.0	2.7	7.3	13.0	35.0
R3526.012	16.0	M12	16.0	16.0	20.0	23.0	2.7	7.3	13.0	35.0
R3526.014	19.0	M14 x 1.5*	19.0	20.0	28.0	28.5	3.0	10.8	16.0	71.2
R3526.015	19.0	M14	19.0	20.0	28.0	28.5	3.0	10.8	16.0	71.2
R3526.016	19.0	M16	19.0	20.0	28.0	28.5	3.0	10.8	16.0	71.2



R3527

Material

Low carbon steel (1018), silver zinc plated.

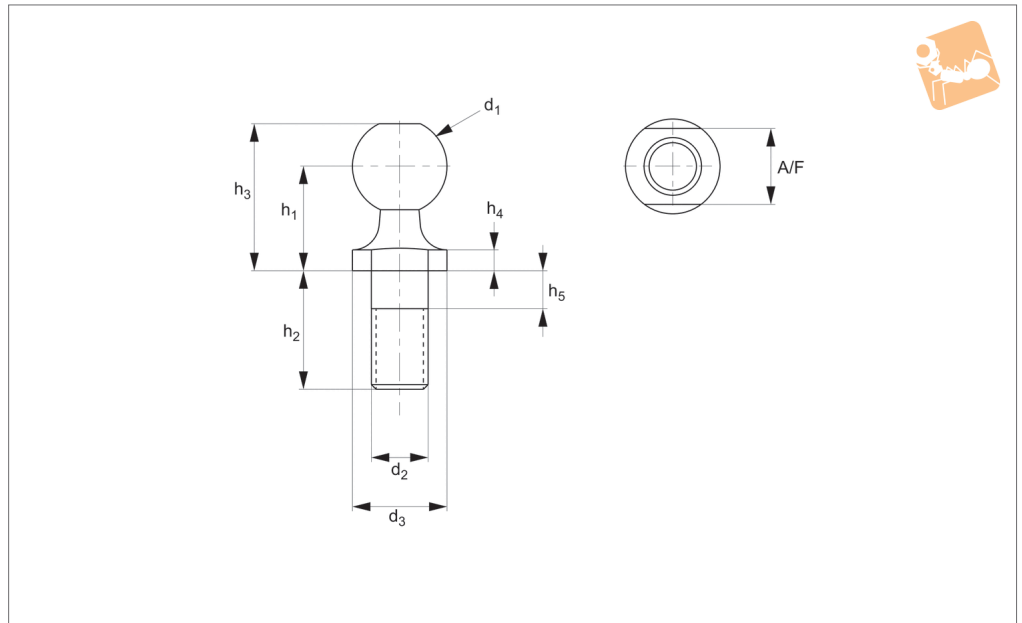
Technical Notes

To DIN 71803 Form B
*M14x1.5 is a fine pitch thread.

Order No.	d_1	d_2 tol. h11	h_1 ± 0.2	h_2 ± 0.3
R3527.080-040	8.0	5.0	4.0	9.0
R3527.080-075	8.0	5.0	7.5	9.0
R3527.100-045	10.0	6.0	4.5	11.0
R3527.100-080	10.0	6.0	8.0	11.0
R3527.130-050	13.0	8.0	5.0	13.0
R3527.130-100	13.0	8.0	10.0	13.0
R3527.160-060	16.0	10.0	6.0	16.0
R3527.160-130	16.0	10.0	13.0	16.0



R3528



Material

Stainless steel (AISI 304)

Technical Notes

To DIN 71803 Form C

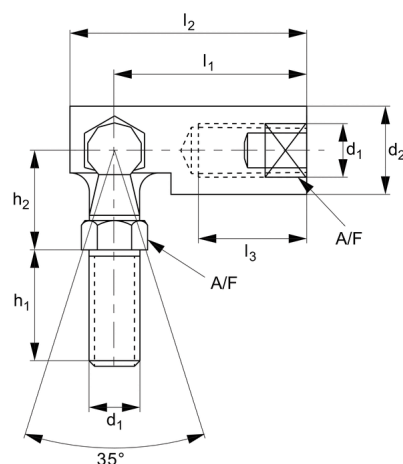
*M14x1.5 is a fine pitch thread.

Order No.	d ₁ tol. H9	d ₂	d ₃ +0.0 -0.2	h ₁ ±0.3	h ₂ ±0.3	h ₃ ±0.3	h ₄ +0.4 -0.0	h ₅ max.	A/F	Weight g
R3528.005	8.0	M5	8.0	9.0	10.2	12.5	2.0	4.0	7.0	4.5
R3528.006	10.0	M6	10.0	11.0	12.5	15.5	2.2	4.0	8.0	8.5
R3528.008	13.0	M8	13.0	13.0	16.5	18.5	2.4	5.3	11.0	17.7
R3528.010	16.0	M10	16.0	16.0	20.0	23.0	2.7	7.3	13.0	35.0
R3528.012	16.0	M12	16.0	16.0	20.0	23.0	2.7	7.3	13.0	35.0
R3528.014	19.0	M14 x 1.5*	19.0	20.0	28.0	28.5	3.0	10.8	16.0	71.2
R3528.015	19.0	M14	19.0	20.0	28.0	28.5	3.0	10.8	16.0	71.2
R3528.016	19.0	M16	19.0	20.0	28.0	28.5	3.0	10.8	16.0	71.2



DMG Ball and Socket Joints

Ball & Socket Joints



R3530

BALL & SOCKET JOINTS

Material

Yellow zinc plated, ball stud is case hardened.
Body and ball stud low carbon steel (BS.970230M07Pb) or equivalent.

Technical Notes

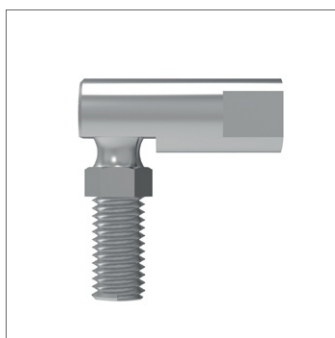
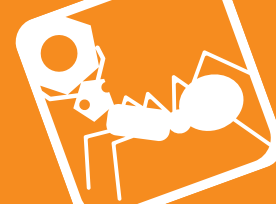
The swaging of the body produces a permanent assembly and the fitted sealing cap helps resist dirt ingress.
The hexagon form of studs facilitates assembly, these are metric equivalents to

SAE J490 Style 1.

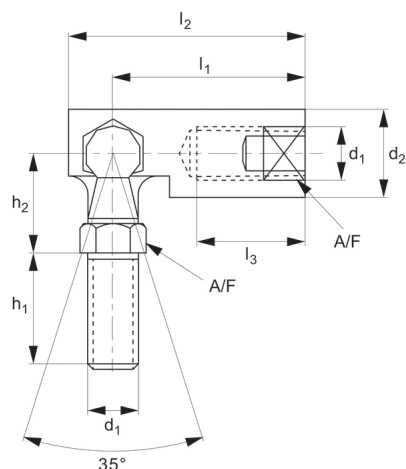
Tips

Standard thread is right hand thread.

Order No.	Thread hand	d ₁	d ₂	l ₁	l ₂	h ₁	h ₂	l ₃	A/F
R3530.R006	Right	M 6	11.13	24.61	30.96	14.30	11.91	12.70	9.53
R3530.R008	Right	M 8	12.70	28.58	35.71	17.48	13.49	14.30	11.13
R3530.R010	Right	M10	15.88	34.93	42.88	22.23	17.48	19.05	12.70
R3530.R012	Right	M12	19.05	49.23	60.33	28.58	22.23	25.40	15.88
R3530.L006	Left	M 6	11.13	24.61	30.96	14.30	11.91	12.70	9.53
R3530.L008	Left	M 8	12.70	28.58	35.71	17.48	13.49	14.30	11.13
R3530.L010	Left	M10	15.88	34.93	42.88	22.23	17.48	19.05	12.70
R3530.L012	Left	M12	19.05	49.23	60.33	28.58	22.23	25.40	15.88



R3532



Material

Stainless steel (AISI 303).

Technical Notes

The swaging of the body produces a perma-

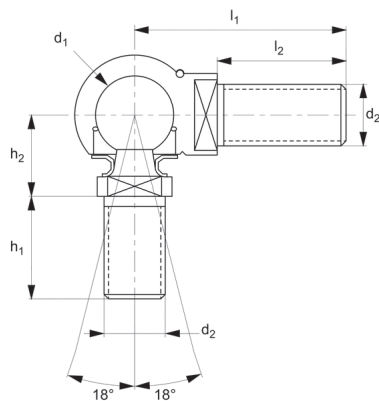
nent assembly and the fitted sealing cap helps resist dirt ingress.

The hexagon form of studs facilitates assembly.

Tips

Standard thread is right hand thread.

Order No.	Thread hand	d ₁	d ₂	l ₁	l ₂	h ₁	h ₂	l ₃	A/F
R3532.R006	Right	M 6	11.13	24.61	30.96	14.30	11.91	12.70	9.53
R3532.R008	Right	M 8	12.70	28.58	35.71	17.48	13.49	14.30	11.13
R3532.R010	Right	M10	15.88	34.93	42.88	22.23	17.48	19.05	12.70
R3532.R012	Right	M12	19.05	49.23	60.33	28.58	22.23	25.40	15.88
R3532.L006	Left	M 6	11.13	24.61	30.96	14.30	11.91	12.70	9.53
R3532.L008	Left	M 8	12.70	28.58	35.71	17.48	13.49	14.30	11.13
R3532.L010	Left	M10	15.88	34.93	42.88	22.23	17.48	19.05	12.70
R3532.L012	Left	M12	19.05	49.23	60.33	28.58	22.23	25.40	15.88



R3538

Material

Low carbon steel, silver zinc plated.

stud in the housing.

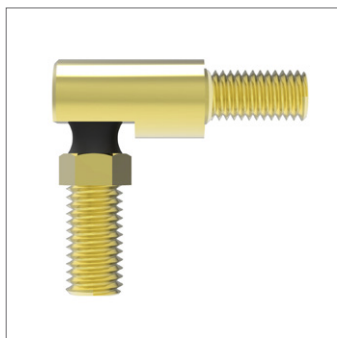
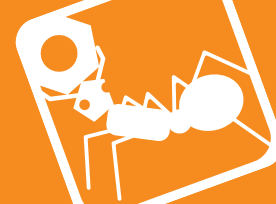
Technical Notes

Safety ring aids the retention of the ball

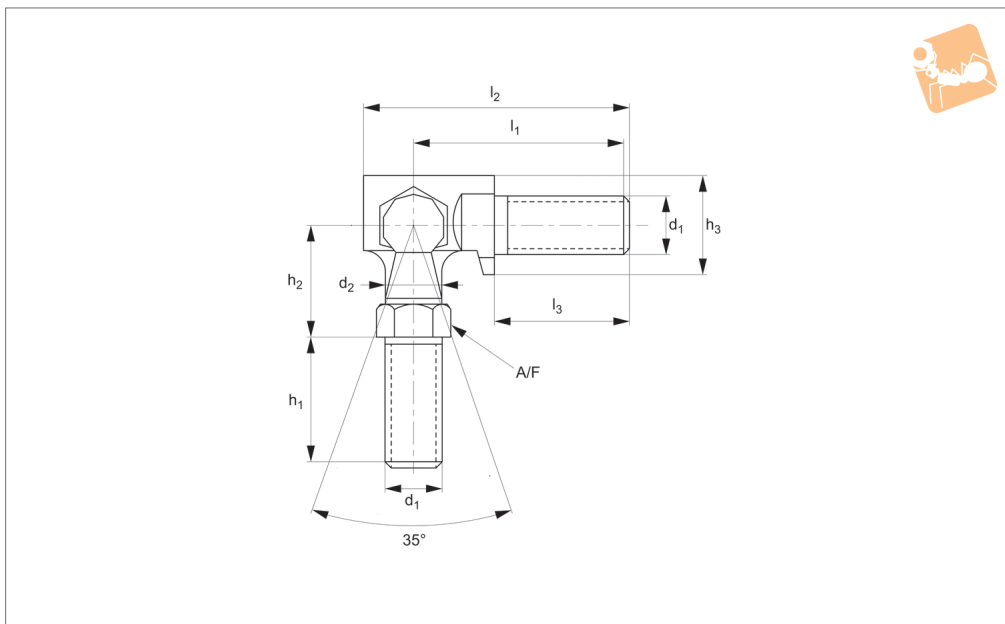
Tips

Standard thread is right hand thread.

Order No.	Thread hand	d ₁	d ₂	l ₁	l ₂	h ₁	h ₂
R3538.R005	Right	8	M 5	22.5	12.0	10.2	9
R3538.R006	Right	10	M 6	25.0	13.5	12.5	11
R3538.R008	Right	13	M 8	31.5	17.5	16.5	13
R3538.R010	Right	16	M10	37.5	21.5	20.0	16
R3538.R012	Right	16	M12	42.0	25.5	20.0	16
R3538.L005	Left	8	M 5	22.5	12.0	10.2	9
R3538.L006	Left	10	M 6	25.0	13.5	12.5	11
R3538.L008	Left	13	M 8	31.5	17.5	16.5	13
R3538.L010	Left	16	M10	37.5	21.5	20.0	16
R3538.L012	Left	16	M12	42.0	25.5	20.0	16



R3539



Material

Low carbon steel (1018), yellow zinc plated.

Technical Notes

The swaging of the body produces a perma-

nent assembly and the fitted sealing cap helps resist dirt ingress.

The hexagon form of studs facilitates assembly.

Tips

Standard thread is right hand thread.

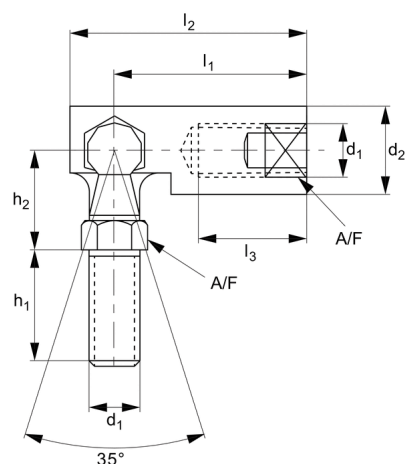
Order No.	Thread hand	d ₁	d ₂	l ₁	l ₂	h ₁	h ₂	h ₃	l ₃	A/F
R3539.R005	Right	M 5	4.37	22.23	27.00	11.13	11.13	9.53	12.04	7.95
R3539.R006	Right	M 6	4.90	24.61	30.96	14.30	11.91	11.13	12.85	9.53
R3539.R008	Right	M 8	5.89	28.58	35.71	17.48	13.49	12.70	16.03	11.13
R3539.R010	Right	M10	7.54	34.93	42.88	22.23	17.48	15.88	19.05	12.70
R3539.R012	Right	M12	10.59	49.23	60.33	28.58	22.23	19.05	25.40	15.88
R3539.L005	Left	M 5	4.37	22.23	27.00	11.13	11.13	9.53	12.04	7.95
R3539.L006	Left	M 6	4.90	24.61	30.96	14.30	11.91	11.13	12.85	9.53
R3539.L008	Left	M 8	5.89	28.58	35.71	17.48	13.49	12.70	16.03	11.13
R3539.L010	Left	M10	7.54	34.93	42.88	22.23	17.48	15.88	19.05	12.70
R3539.L012	Left	M12	10.59	49.23	60.33	28.58	22.23	19.05	25.40	15.88



Ball and Socket Joints

Imperial (DIG)

Ball & Socket Joints



R3530.i

BALL & SOCKET JOINTS

Material

Yellow zinc plated steel, ball stud is case hardened.

Technical Notes

The swaging of the body produces a perma-

nent assembly and the fitted sealing cap helps resist dirt ingress.

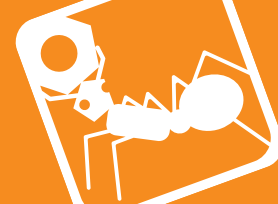
The hexagon form of studs facilitates assembly, yellow zinc is not RoHS Compliant.

Tips

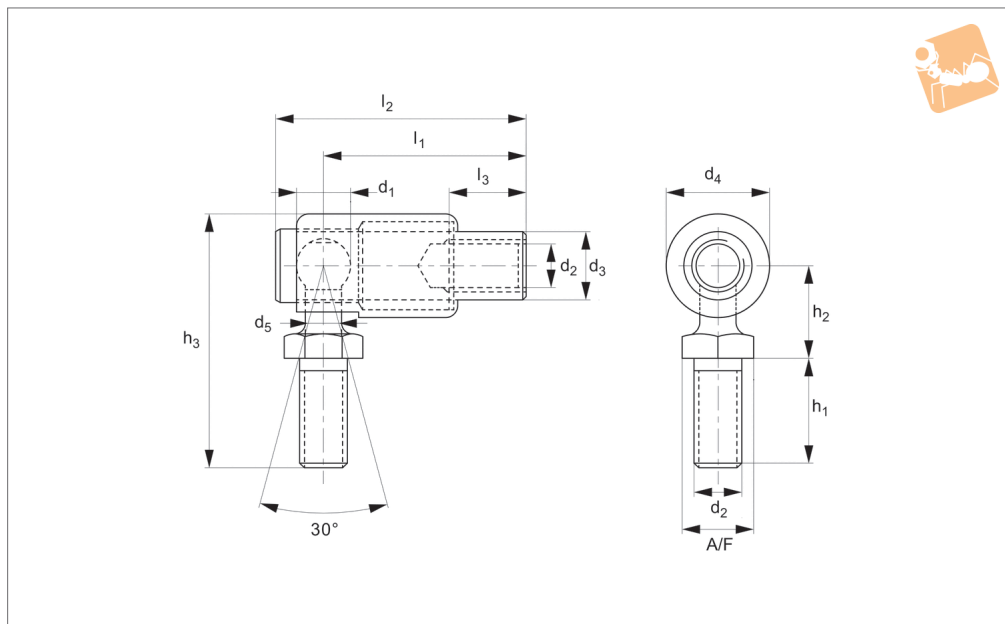
Standard Thread is Right hand thread, equivalent to Springfix DIG joints.

Order No.	Thread hand	d ₁	d ₂	l ₁	l ₂	h ₁	h ₂	l ₃	A/F
R3530.I187	Right	10-32	0.375	0.875	1.063	0.438	0.438	0.438	0.313
R3530.I250	Right	1/4-28	0.438	0.969	1.219	0.563	0.469	0.500	0.375
R3530.I312	Right	5/16-24	0.500	1.125	1.406	0.688	0.531	0.563	0.438
R3530.I375	Right	3/8-24	0.625	1.375	1.688	0.875	0.688	0.750	0.500
R3530.I438	Right	7/16-20	0.750	1.938	2.375	1.125	0.875	1.000	0.625
R3530.I500	Right	1/2-20	0.750	1.938	2.375	1.125	0.875	1.000	0.625
R3530.I625	Right	5/8-18	0.875	2.063	2.578	1.125	1.000	1.000	0.750
R3530.IL187	Left	10-32 LH	0.375	0.875	1.063	0.438	0.438	0.438	0.313
R3530.IL250	Left	1/4-28 LH	0.438	0.969	1.219	0.563	0.469	0.500	0.375
R3530.IL312	Left	5/16-24 LH	0.500	1.125	1.406	0.688	0.531	0.563	0.438
R3530.IL375	Left	3/8-24 LH	0.625	1.375	1.688	0.875	0.688	0.750	0.500
R3530.IL438	Left	7/16-20 LH	0.750	1.938	2.375	1.125	0.875	1.000	0.625
R3530.IL500	Left	1/2-20 LH	0.750	1.938	2.375	1.125	0.875	1.000	0.625
R3530.IL625	Left	5/8-18 LH	0.875	2.063	2.578	1.125	1.000	1.000	0.750





R3535.i



Material

Silver/Clear zinc plated steel

Technical Notes

The spring loaded outer shield allows both

rapid release and reconnection of the ball stud.

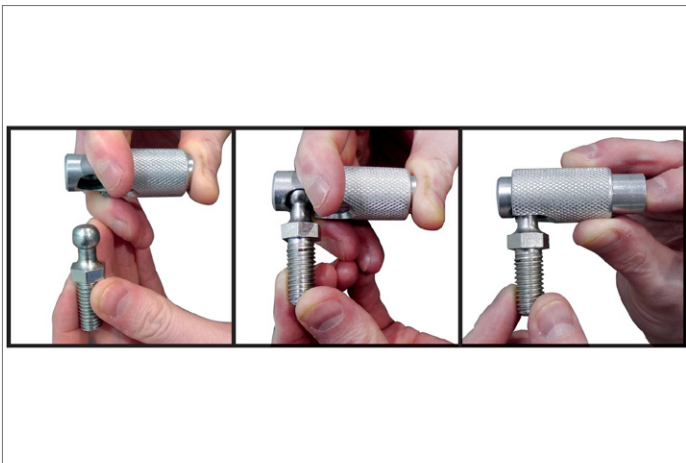
Linkage assemblies can be installed or removed without disturbing pre-set

centres.

Tips

Equivalent to Springfix QI ball joints

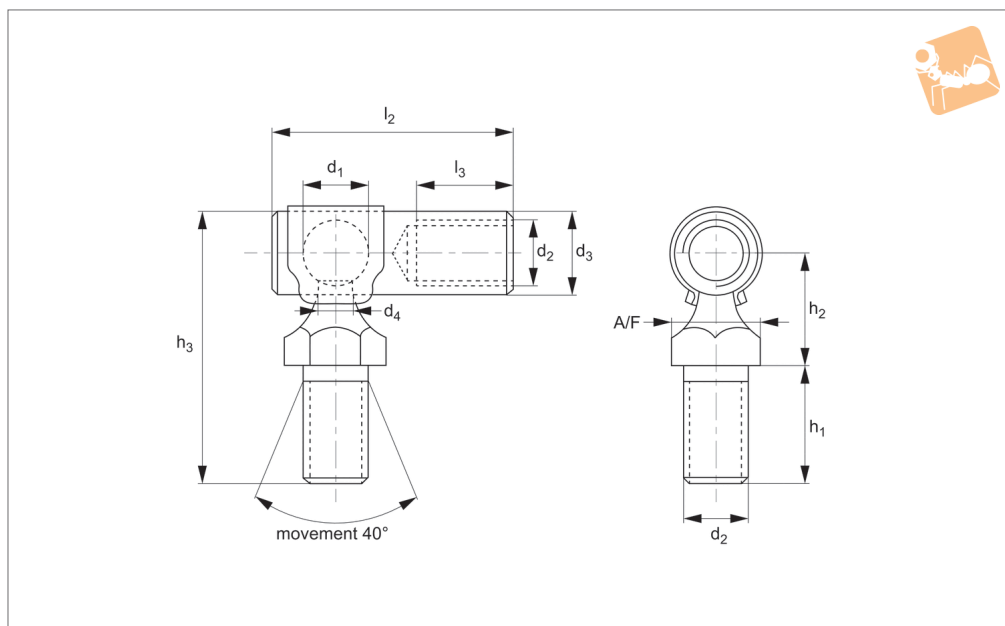
Order No.	d ₁	d ₂	l ₁	l ₂	d ₃	d ₄	d ₅	h ₁	h ₂	h ₃	l ₃	A/F
R3535.I187	0.250	10-32	0.906	1.094	0.310	0.438	0.171	0.438	0.438	1.125	0.438	0.312
R3535.I250	0.311	1/4-28	0.969	1.250	0.370	0.562	0.194	0.562	0.469	1.312	0.531	0.375
R3535.I312	0.339	5/16-24	1.125	1.453	0.439	0.687	0.228	0.625	0.531	1.594	0.605	0.437
R3535.I375	0.421	3/8-24	1.375	1.750	0.556	0.875	0.269	0.750	0.687	1.969	0.812	0.500





Light Duty Quick Release Ball Joint

Ball & Socket Joints



R3536.i

BALL & SOCKET JOINTS

Material

Yellow zinc plated steel.

Technical Notes

Quick disconnect ball joints are used in light duty applications where the ball stud

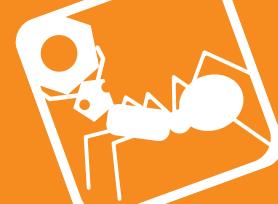
needs to be easily disconnected from the housing.

This is accomplished simply by pulling the ball stud out of the housing, (takes approximately 10 to 20 pounds of

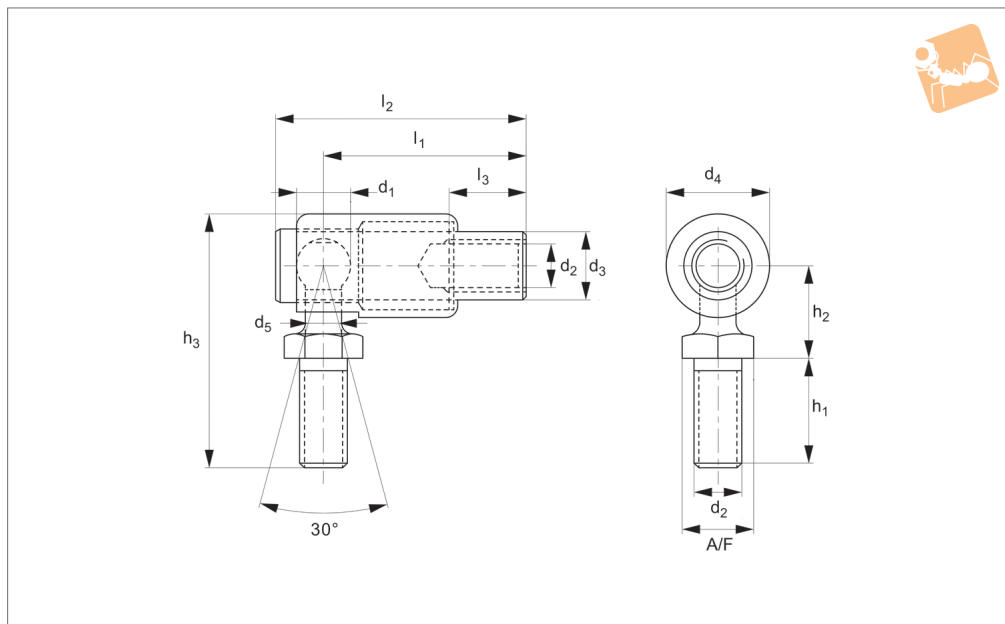
force to remove the ball stud).

Quick disconnect ball joints are typically assembled in push-pull cables or rod linkages.

Order No.	d ₁	d ₂	l ₁	l ₂	d ₃	d ₄	h ₁	h ₂	h ₃	l ₃	A/F	Weight g
R3536.3-4	0.250	10-32	0.875	1.156	0.312	0.138	0.437	0.420	1.032	0.484	0.312	1300
R3536.4-4	0.250	10-32	0.875	1.156	0.312	0.138	0.562	0.420	1.156	0.484	0.312	1400
R3536.4-3	0.250	1/4	0.969	1.250	0.312	0.138	0.562	0.420	1.156	0.531	0.312	1300
R3536.4L-4L	0.250	1/4	0.969	1.250	0.312	0.138	0.437	0.420	1.032	0.531	0.312	1200
R3536.3-3	0.312	5/16	0.875	1.187	0.394	0.177	0.562	0.537	1.312	0.484	0.437	7200



R3535



Material

Body: stainless steel (A2, AISI 303) or steel zinc-plated.
 Shield and ball stud: carbon steel.
 Body and ball stud: case hardened.
 Spring: (302 S26) stainless steel or equivalent, zinc plated.

Technical Notes

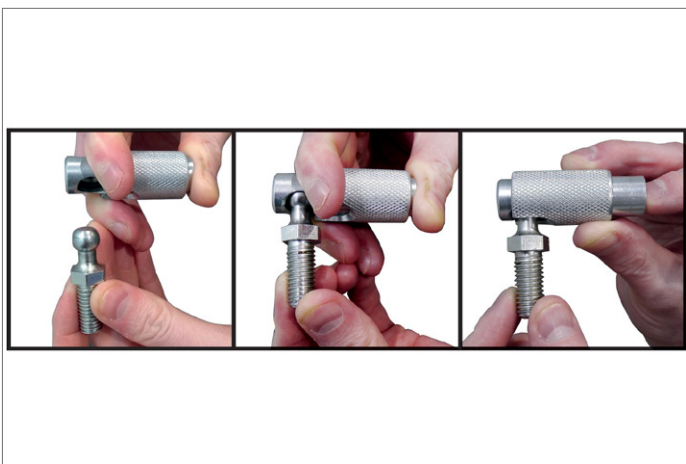
The spring loaded outer shield allows both rapid release and reconnection of the ball stud.
 Linkage assemblies can be installed or removed without disturbing pre-set centres.

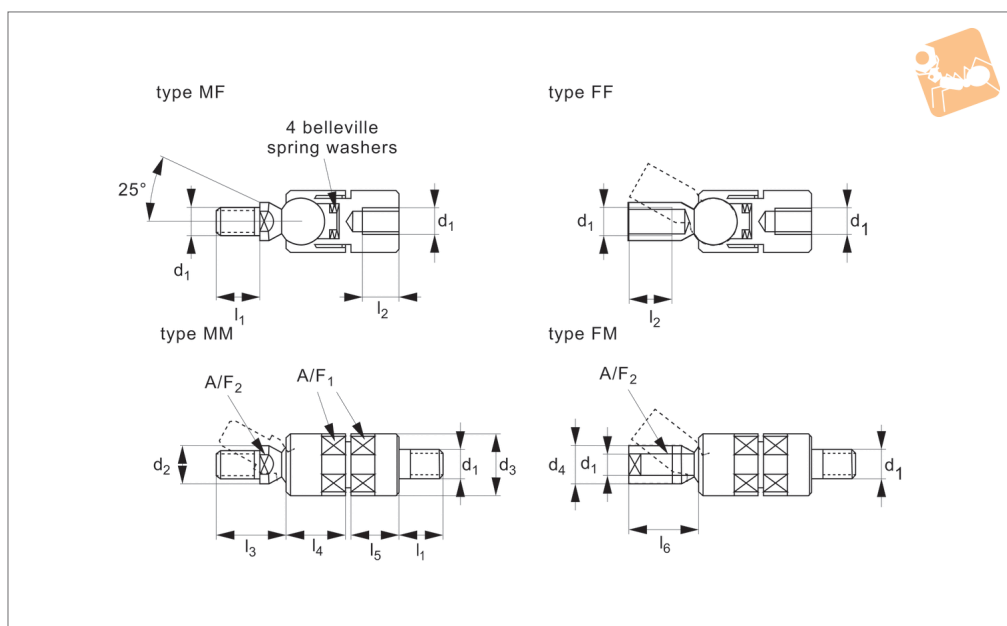
These are metric equivalents to SAE J 490 Style 1 quick release detachable ball joints.

Tips

Standard thread is a right hand thread.

Order No.	Thread hand	d ₁	d ₂	l ₁	l ₂	d ₃	d ₄	d ₅	h ₁	h ₂	h ₃	l ₃	A/F	Weight g
R3535.005-ZP	Right	6.35	M 5	23.0	28	7.9	11.1	4.35	11.1	11.9	28.6	11.1	8	17
R3535.006-ZP	Right	7.9	M 6	24.6	30	9.4	13.0	4.95	12.6	12.6	33.4	13.0	10	25
R3535.008-ZP	Right	8.6	M 8	31.7	40	11.1	16.0	5.8	15.2	15.2	40.6	14.3	11	48
R3535.010-ZP	Right	10.7	M10	39.7	49	14.1	19.0	6.85	19.8	19.8	51.4	27.0	13	78
R3535.011-ZP	Right	10.7	M10	39.7	49	14.1	19.0	6.85	19.8	19.8	51.4	20.0	13	78
R3535.005-A2	Right	6.35	M 5	23.0	28	7.9	11.1	4.35	11.1	11.9	28.6	11.1	8	17
R3535.006-A2	Right	7.9	M 6	24.6	30	9.4	13.0	4.95	12.6	12.6	33.4	13.0	10	25
R3535.008-A2	Right	8.6	M 8	31.7	40	11.1	16.0	5.8	15.2	15.2	40.6	14.3	11	48
R3535.010-A2	Right	10.7	M10	39.7	49	14.1	19.0	6.85	19.8	19.8	51.4	27.0	13	78
R3535.011-A2	Right	10.7	M10	39.7	49	14.1	19.0	6.85	19.8	19.8	51.4	20.0	13	78





R3540

Material

Steel, (silver zinc plated). Brake piece technopolymer (polyamide PA).

Technical Notes

The clamping nut can be set to give a

required thrust on the Belleville spring washers, in order to increase resistance to the movement of the ball stud, the spring washers act as safety washers for the

screws.

Once the max. thrust to the spring washers is reached the ball stud is firmly fixed in position.

Order No.	Type	d ₁	l ₁	d ₂	d ₃	l ₂	l ₃	l ₄	l ₅	l ₆	A/F ₁	A/F ₂
R3540.MF008	MF	M8	12	11	19	10	19.5	18.5	15	-	17	9
R3540.MF010	MF	M10	15	13	21	12	23.5	21.5	17	-	19	11
R3540.MM008	MM	M8	12	11	19	-	19.5	18.5	15	-	17	9
R3540.MM010	MM	M10	15	13	21	-	23.5	21.5	17	-	19	11
R3540.FF008	FF	M8	-	11	19	10	19.5	18.5	15	-	17	9
R3540.FF010	FF	M10	-	13	21	12	23.5	21.5	17	-	19	11
R3540.FM008	FM	M8	12	11	19	-	19.5	18.5	15	18.5	17	9
R3540.FM010	FM	M10	15	13	21	-	23.5	21.5	17	20.5	19	11