



### P0136

#### Material

Blackened alloy steel, high grade strength 012,9.  
Hardness 38 HRC, tensile strength 1200 N/mm<sup>2</sup>.

#### Technical notes

To ISO 7379. Temperature range -50°C to +300°C.

#### Tips

Torque to:  
M5 = 7,5Nm. M6 = 13 Nm. M8 = 33 Nm. M10 = 60 Nm. M12 = 120 Nm. M16 = 270 Nm.

Order No.	d <sub>1</sub> f9	l <sub>1</sub> +0,25	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub>	h	A/F
P0136.040-005	4	5	M 3	7	7	3	2
P0136.040-008	4	8	M 3	7	7	3	2
P0136.040-010	4	10	M 3	7	7	3	2
P0136.040-012	4	12	M 3	7	7	3	2
P0136.040-016	4	16	M 3	7	7	3	2
P0136.040-020	4	20	M 3	7	7	3	2
P0136.040-025	4	25	M 3	7	7	3	2
P0136.040-030	4	30	M 3	7	7	3	2
P0136.050-006	5	6	M 4	9	8	4	2,5
P0136.050-008	5	8	M 4	9	8	4	2,5
P0136.050-010	5	10	M 4	9	8	4	2,5
P0136.050-012	5	12	M 4	9	8	4	2,5
P0136.050-016	5	16	M 4	9	8	4	2,5
P0136.050-020	5	20	M 4	9	8	4	2,5
P0136.050-025	5	25	M 4	9	8	4	2,5
P0136.050-030	5	30	M 4	9	8	4	2,5
P0136.060-006	6	6	M 5	10	9,5	4,5	3
P0136.060-008	6	8	M 5	10	9,5	4,5	3
P0136.060-010	6	10	M 5	10	9,5	4,5	3
P0136.060-012	6	12	M 5	10	9,5	4,5	3
P0136.060-016	6	16	M 5	10	9,5	4,5	3
P0136.060-020	6	20	M 5	10	9,5	4,5	3
P0136.060-025	6	25	M 5	10	9,5	4,5	3
P0136.060-030	6	30	M 5	10	9,5	4,5	3
P0136.060-035	6	35	M 5	10	9,5	4,5	3
P0136.060-040	6	40	M 5	10	9,5	4,5	3
P0136.060-045	6	45	M 5	10	9,5	4,5	3
P0136.060-050	6	50	M 5	10	9,5	4,5	3
P0136.060-055	6	55	M 5	10	9,5	4,5	3

Order No.	d <sub>1</sub> f <sub>9</sub>	l <sub>1</sub> +0,25	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub>	h	A/F
P0136.060-060	6	60	M 5	10	9,5	4,5	3
P0136.060-065	6	65	M 5	10	9,5	4,5	3
P0136.060-070	6	70	M 5	10	9,5	4,5	3
P0136.060-075	6	75	M 5	10	9,5	4,5	3
P0136.060-080	6	80	M 5	10	9,5	4,5	3
P0136.060-090	6	90	M 5	10	9,5	4,5	3
P0136.060-100	6	100	M 5	10	9,5	4,5	3
P0136.080-008	8	8	M 6	13	11	5,5	4
P0136.080-010	8	10	M 6	13	11	5,5	4
P0136.080-012	8	12	M 6	13	11	5,5	4
P0136.080-016	8	16	M 6	13	11	5,5	4
P0136.080-020	8	20	M 6	13	11	5,5	4
P0136.080-025	8	25	M 6	13	11	5,5	4
P0136.080-030	8	30	M 6	13	11	5,5	4
P0136.080-035	8	35	M 6	13	11	5,5	4
P0136.080-040	8	40	M 6	13	11	5,5	4
P0136.080-045	8	45	M 6	13	11	5,5	4
P0136.080-050	8	50	M 6	13	11	5,5	4
P0136.080-055	8	55	M 6	13	11	5,5	4
P0136.080-060	8	60	M 6	13	11	5,5	4
P0136.080-065	8	65	M 6	13	11	5,5	4
P0136.080-070	8	70	M 6	13	11	5,5	4
P0136.080-075	8	75	M 6	13	11	5,5	4
P0136.080-080	8	80	M 6	13	11	5,5	4
P0136.080-090	8	90	M 6	13	11	5,5	4
P0136.080-100	8	100	M 6	13	11	5,5	4
P0136.100-010	10	10	M 8	16	13	7	5
P0136.100-012	10	12	M 8	16	13	7	5
P0136.100-016	10	16	M 8	16	13	7	5
P0136.100-020	10	20	M 8	16	13	7	5
P0136.100-025	10	25	M 8	16	13	7	5
P0136.100-030	10	30	M 8	16	13	7	5
P0136.100-035	10	35	M 8	16	13	7	5
P0136.100-040	10	40	M 8	16	13	7	5
P0136.100-045	10	45	M 8	16	13	7	5
P0136.100-050	10	50	M 8	16	13	7	5
P0136.100-055	10	55	M 8	16	13	7	5
P0136.100-060	10	60	M 8	16	13	7	5
P0136.100-065	10	65	M 8	16	13	7	5
P0136.100-070	10	70	M 8	16	13	7	5
P0136.100-075	10	75	M 8	16	13	7	5
P0136.100-080	10	80	M 8	16	13	7	5
P0136.100-090	10	90	M 8	16	13	7	5
P0136.100-100	10	100	M 8	16	13	7	5
P0136.100-120	10	120	M 8	16	13	7	5
P0136.120-012	12	12	M10	18	16	9	6
P0136.120-016	12	16	M10	18	16	9	6
P0136.120-020	12	20	M10	18	16	9	6
P0136.120-025	12	25	M10	18	16	9	6
P0136.120-030	12	30	M10	18	16	9	6
P0136.120-035	12	35	M10	18	16	9	6
P0136.120-040	12	40	M10	18	16	9	6
P0136.120-045	12	45	M10	18	16	9	6
P0136.120-050	12	50	M10	18	16	9	6
P0136.120-055	12	55	M10	18	16	9	6
P0136.120-060	12	60	M10	18	16	9	6
P0136.120-065	12	65	M10	18	16	9	6
P0136.120-070	12	70	M10	18	16	9	6

Order No.	d <sub>1</sub> f9	l <sub>1</sub> +0,25	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub>	h	A/F
P0136.120-075	12	75	M10	18	16	9	6
P0136.120-080	12	80	M10	18	16	9	6
P0136.120-090	12	90	M10	18	16	9	6
P0136.120-100	12	100	M10	18	16	9	6
P0136.120-110	12	110	M10	18	16	9	6
P0136.160-020	16	20	M12	24	18	11	8
P0136.160-025	16	25	M12	24	18	11	8
P0136.160-030	16	30	M12	24	18	11	8
P0136.160-035	16	35	M12	24	18	11	8
P0136.160-040	16	40	M12	24	18	11	8
P0136.160-045	16	45	M12	24	18	11	8
P0136.160-050	16	50	M12	24	18	11	8
P0136.160-055	16	55	M12	24	18	11	8
P0136.160-060	16	60	M12	24	18	11	8
P0136.160-065	16	65	M12	24	18	11	8
P0136.160-070	16	70	M12	24	18	11	8
P0136.160-075	16	75	M12	24	18	11	8
P0136.160-080	16	80	M12	24	18	11	8
P0136.160-090	16	90	M12	24	18	11	8
P0136.160-100	16	100	M12	24	18	11	8
P0136.160-120	16	120	M12	24	18	11	8
P0136.200-020	20	20	M16	30	22	14	10
P0136.200-025	20	25	M16	30	22	14	10
P0136.200-030	20	30	M16	30	22	14	10
P0136.200-035	20	35	M16	30	22	14	10
P0136.200-040	20	40	M16	30	22	14	10
P0136.200-045	20	45	M16	30	22	14	10
P0136.200-050	20	50	M16	30	22	14	10
P0136.200-055	20	55	M16	30	22	14	10
P0136.200-060	20	60	M16	30	22	14	10
P0136.200-065	20	65	M16	30	22	14	10
P0136.200-070	20	70	M16	30	22	14	10
P0136.200-075	20	75	M16	30	22	14	10
P0136.200-080	20	80	M16	30	22	14	10
P0136.200-090	20	90	M16	30	22	14	10
P0136.200-100	20	100	M16	30	22	14	10
P0136.200-120	20	120	M16	30	22	14	10
P0136.240-020	24	20	M20	36	27	16	12
P0136.240-025	24	25	M20	36	27	16	12
P0136.240-030	24	30	M20	36	27	16	12
P0136.240-035	24	35	M20	36	27	16	12
P0136.240-040	24	40	M20	36	27	16	12
P0136.240-045	24	45	M20	36	27	16	12
P0136.240-050	24	50	M20	36	27	16	12
P0136.240-055	24	55	M20	36	27	16	12
P0136.240-060	24	60	M20	36	27	16	12
P0136.240-065	24	65	M20	36	27	16	12
P0136.240-070	24	70	M20	36	27	16	12
P0136.240-075	24	75	M20	36	27	16	12
P0136.240-080	24	80	M20	36	27	16	12
P0136.240-090	24	90	M20	36	27	16	12
P0136.240-100	24	100	M20	36	27	16	12
P0136.240-120	24	120	M20	36	27	16	12

### Steel shoulder screws

These are our least expensive option. They are produced to ISO 7379 standards. Thread sizes from Ø4 M3 to Ø24 M20. We manufacture special shoulder screws to customer drawings with a minimum batch size.



### Stainless steel shoulder screws

We have three different grades of stainless steel shoulder screws:

**A2 series** – these are our standard grade of stainless. They are strong and resistant to corrosion but not to very harsh environments such as salt water.

For standard sizes Ø6 M5 up to Ø16 M12, see our part no P0137. For miniature sizes down to Ø4 M3 see parts numbers P0130 and P0132.

**416 series** – these are made from harder stainless steel with improved shear strengths but the parts are more prone to corrosion (see part no. P0131 and P0133).

**A4 series** – these shoulder screws (P0143) are very resistant to corrosion but are considerably more expensive than other stainless versions.



A2 Stainless



416 Stainless



A4 Stainless

### Shoulder bolts

Our range of precision shoulder bolts with hexagonal heads come in both steel and stainless steel.

**Steel** – our standard part number P0138 is produced to DIN 609. We also have the same part with slightly longer thread size (P0140) – which is to DIN 610 standards.

**Stainless** – our standard part number P0139 is produced to DIN 609. We also have the same part with slightly longer thread size (P0141) – which is to DIN 610 standards.

Two different versions. Our most popular version is to DIN 609.



Steel



A2 Stainless



Steel



P0138 + P0139  
DIN 609 (long thread)



P0140 + P0141  
DIN 610 (short thread)



P0142  
DIN 7968 (short thread)

Part No.		Material	Head	Corrosion resistance	Strength	Ø/thread	DIN/ISO
P0130		Stainless A2	Hex socket	3 3	3	Min: Ø4/M3 Max: Ø12/M10	-
P0131		Stainless 416	Hex socket	3	3 3	Min: Ø4/M3 Max: Ø12/M10	-
P0132		Stainless A2	Slotted	3 3	3	Min: Ø4/M3 Max: Ø12/M10	-
P0133		Stainless 416	Slotted	3	3 3	Min: Ø4/M3 Max: Ø12/M10	-
P0134		Stainless A2	Hex socket	3 3	3	Min: Ø4/M3 Max: Ø8/M6	-
P0135		Stainless A2	Hex head	3 3	3	Min: Ø4/M3 Max: Ø12/M10	-
P0136		Steel 12,9	Hex socket	7	3 3	Min: Ø4/M3 Max: Ø24/M20	ISO 7379
P0137		Stainless A2	Hex socket	3 3	3	Min: Ø6/M5 Max: Ø20/M16	ISO 7379
P0138		Steel 8,8	Hex head	7	3	Min: Ø9/M8 Max: Ø44/M42	DIN 610
P0139		Steel 10,9	Hex head (long thread)	7	3 3	Min: Ø9/M8 Max: Ø38/M36	DIN 610
P0140		Steel 8,8	Hex socket (short thread)	7	3 3	Min: Ø9/M8 Max: Ø44/M42	DIN 609
P0141		Steel 10,9	Hex socket (short thread)	7	3 3	Min: Ø9/M8 Max: Ø38/M36	DIN 609
P0142		Steel 8,8	Hex head	7	3 3	Min: Ø12/M12 Max: Ø27/M27	DIN 7968
P0143		Stainless A4	Hex socket	3 3 3	3	Min: Ø4/M3 Max: Ø12/M10	ISO 7379
P0144		Stainless A2	Pan head	3 3	3 3	Min: Ø4/M3 Max: Ø10/M8	DIN 923