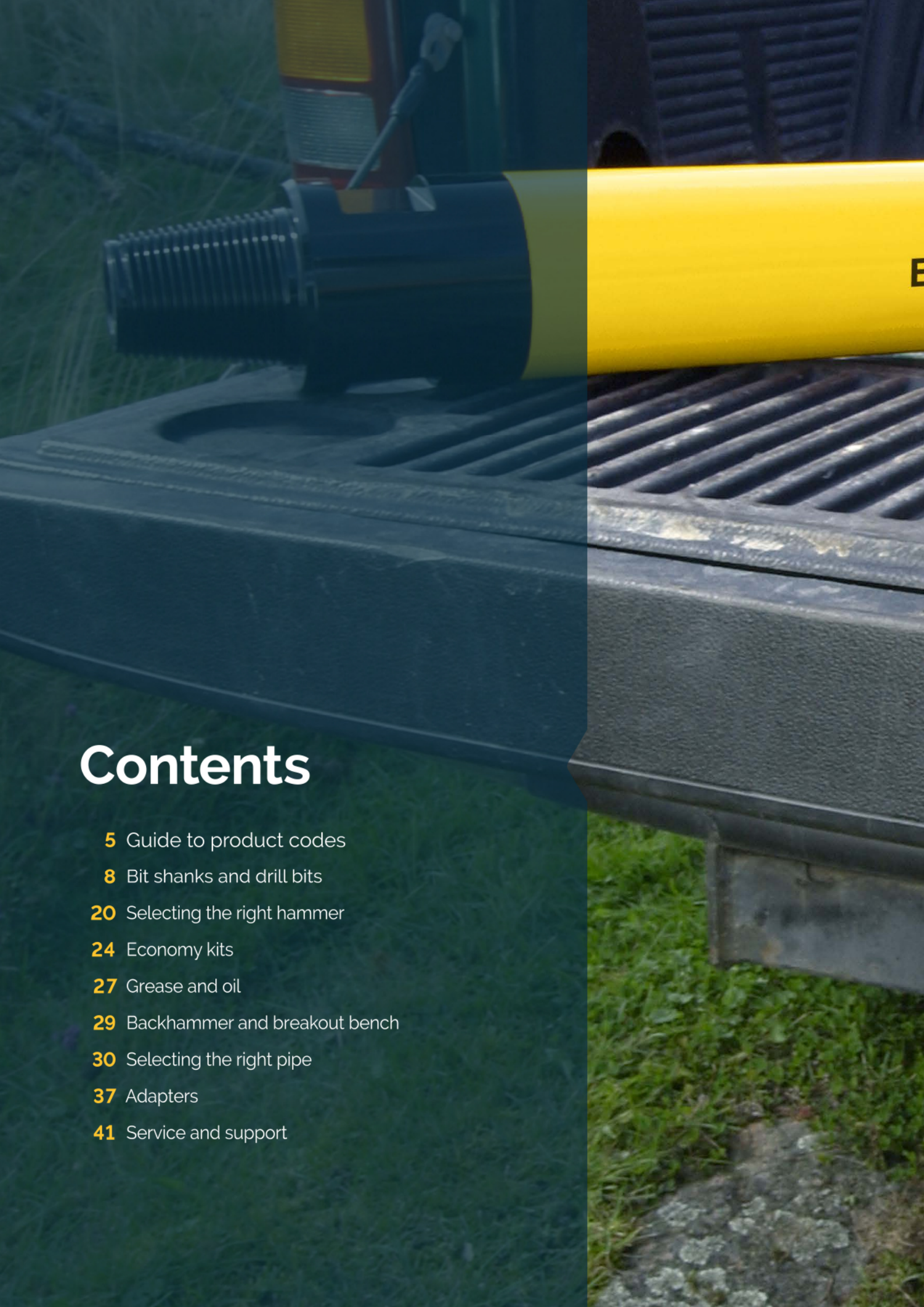


DTH equipment

Product catalogue





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EPIROC COP 54 GOLD



Epiroc

has the broadest range of hammers, bits, and related equipment of any supplier in the world. This means more choices for you. It means you can work with the strongest support network in the industry, regardless of your equipment needs.

It means that you can look to one reliable and time-tested source for all your equipment needs. Of course, you'd expect Epiroc to have the most productive DTH hammers in the world. And we do. But maybe your situation calls for the utmost in reliability. Or perhaps your application demands technology that has been tested and proven through years of field use. Whatever your needs, check out our many choices before settling for less.

Each of our DTH hammers is designed for optimum performance in one or more of seventeen typical applications on a price vs. performance basis. We are the only manufacturer to offer both first and second choice solutions in every single application.

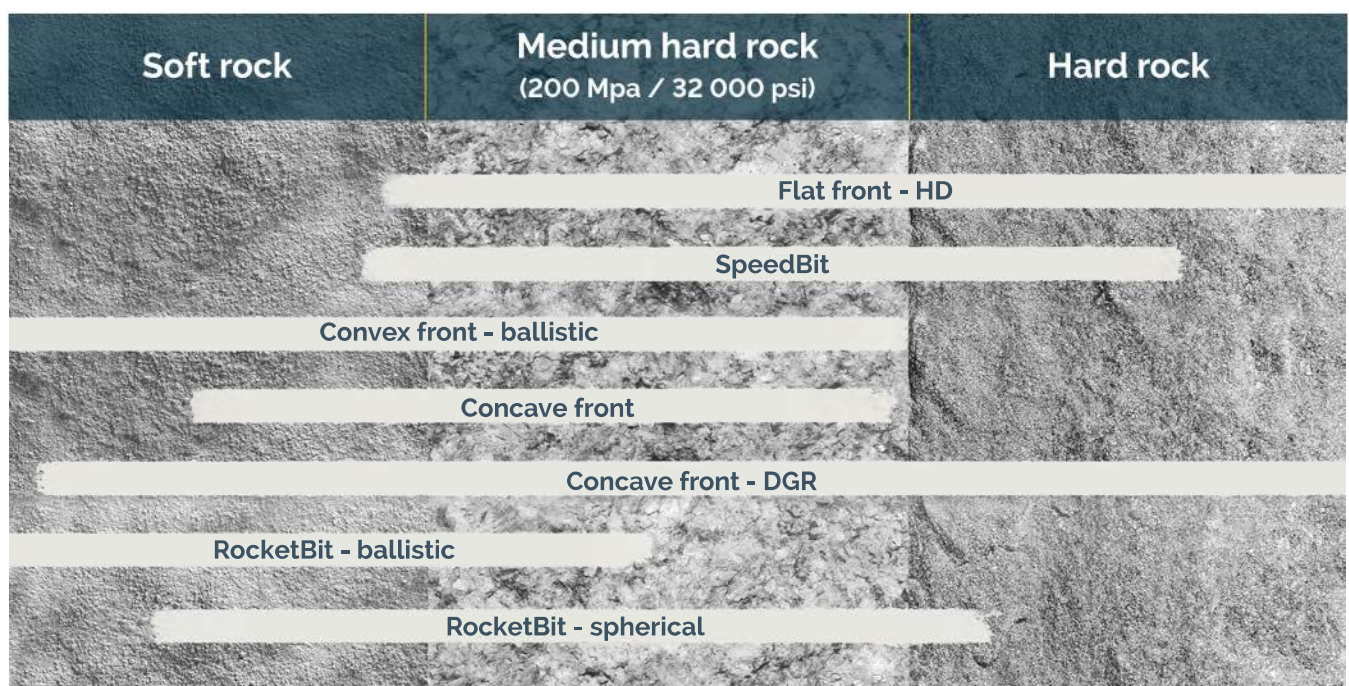
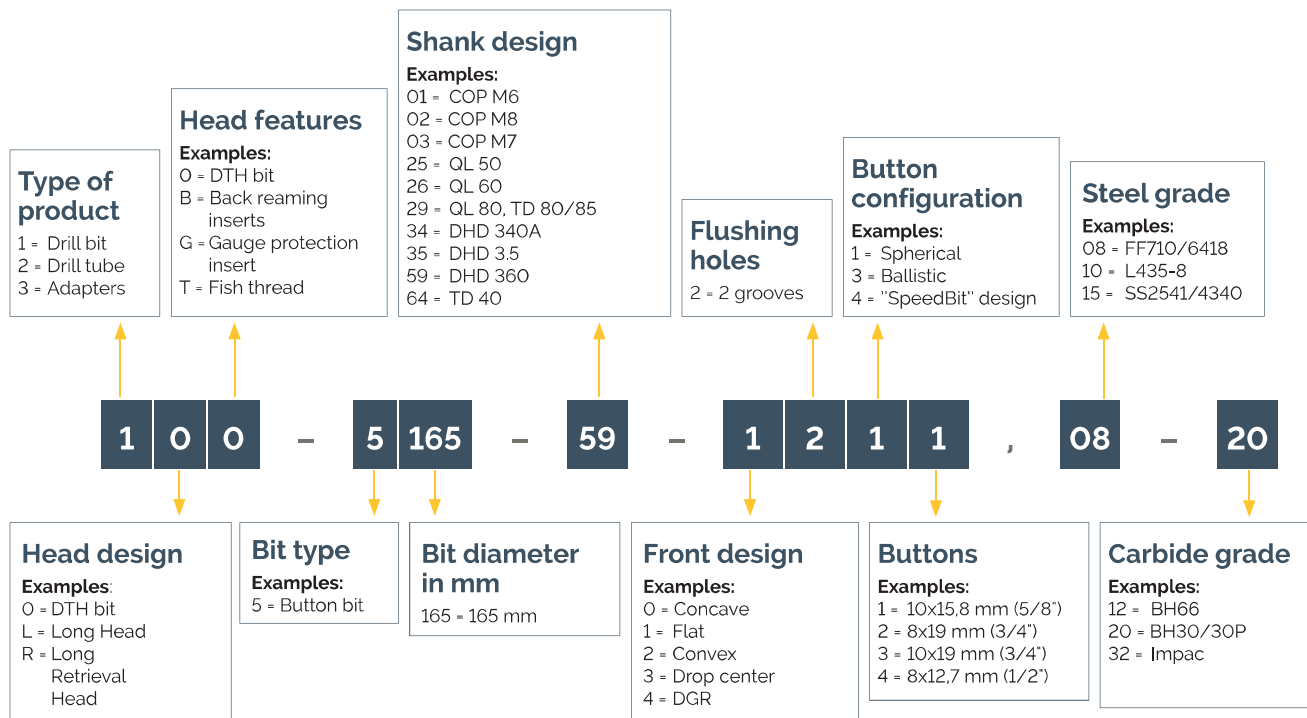
It's all right here. At Epiroc.



Product codes are a valuable tool to describe and identify the product. In the code structure we have tried to describe the product features with Alfa-numerical system and although not always 100% logical, with the attached key you will be able find the product you are looking for or an alternative product.

Codes for DTH bits

Example: 100-5165-59-1211,08-20 = 165 mm DHD 360



Bit designs and rock types

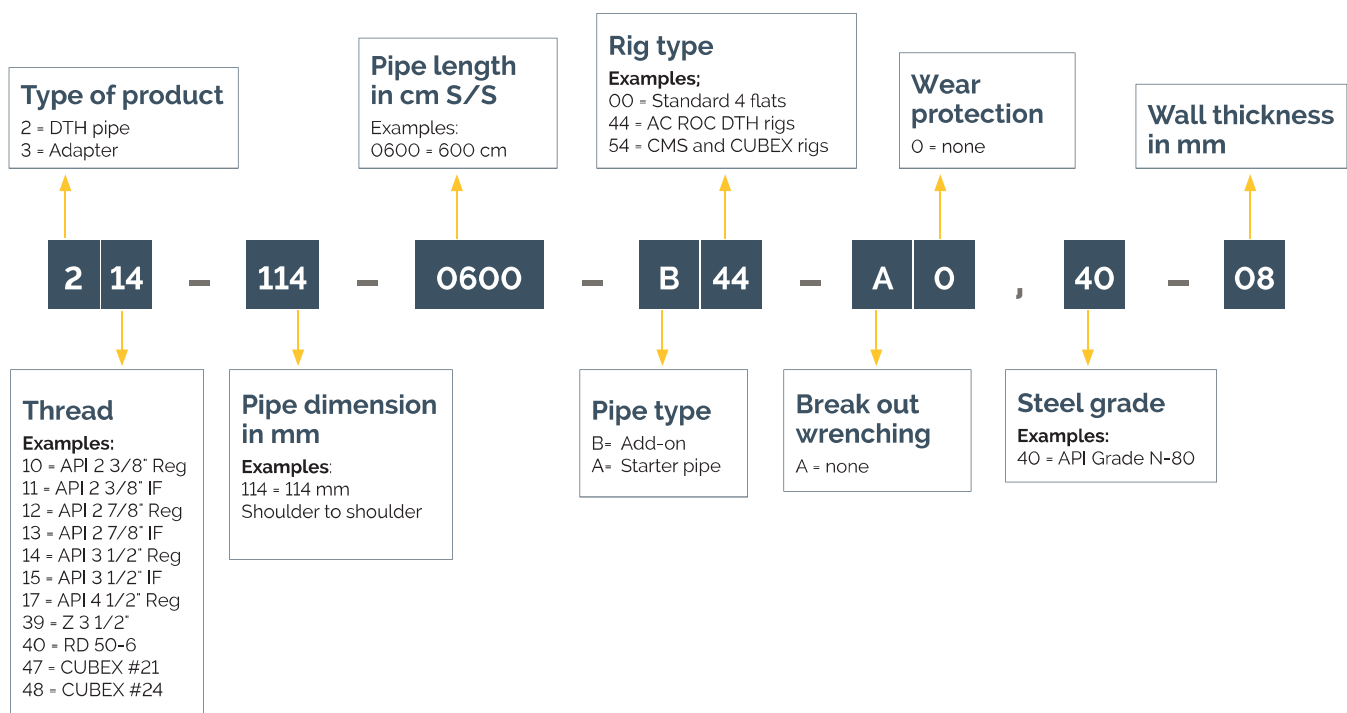
Codes for DTH hammers

Example: 9706-CG-00-14P-26-HBO-000 = COP 64 Gold, comp QM, 3 1/2" API Reg Pin

Product	Size	Family	Execution	Type of connection
97	06	CG	00	14
97= DTH hammer Examples: 02 = 2" 03 = 3" 04 = 4" 05 = 5" 06 = 6" 07 = 7" 08 = 8"	Examples: 02 = 2" 03 = 3" 04 = 4" 05 = 5" 06 = 6" 07 = 7" 08 = 8"	Examples: 0 = Standard BH = Back hammer CG = COP Gold CM = COP M CO = COP QL = QL QT = TD QX = QLX WW = COP W4	Examples: 00 = Standard DH = Deep hole DS = Dimensional Stone DT = Directional Tool HF = High Flow LH = Left hand threaded LP = Low pressure MI = Mizer SH = Slot hole drilling	Examples: 00 = Thread not specified 10 = API 2 3/8" Reg 11 = API 2 3/8" IF 12 = API 2 7/8" Reg 13 = API 2 7/8" IF 14 = API 3 1/2" Reg 15 = API 3 1/2" IF 16 = API 3 1/2" FH 17 = API 4 1/2" Reg 18 = API 6 5/8" Reg 19 = API 4" IF 20 = API 4 1/2" FH 21 = API 4" FH 22 = API 5 1/2" FH 31 = NC 44 31 = API 5 1/2" FH 32 = API 7 5/8" Reg 38 = API 8-5/8" Reg 39 = Metzke 4" RC 40 = RD 50-6 41 = API 4 1/2" IF 42 = RD 70-4 43 = LT 275 44 = LT 312 45 = LT 425 1 x 4 flats 46 = LT 425 2 x 4 flats 47 = Cubex #21 48 = Cubex #24 49 = Cubex #26

Codes for DTH pipes

Example: 214-114-0600-B44-A0,40-08 = OD 114 mm, L 6 m, ROC L8, wall 8,8 mm



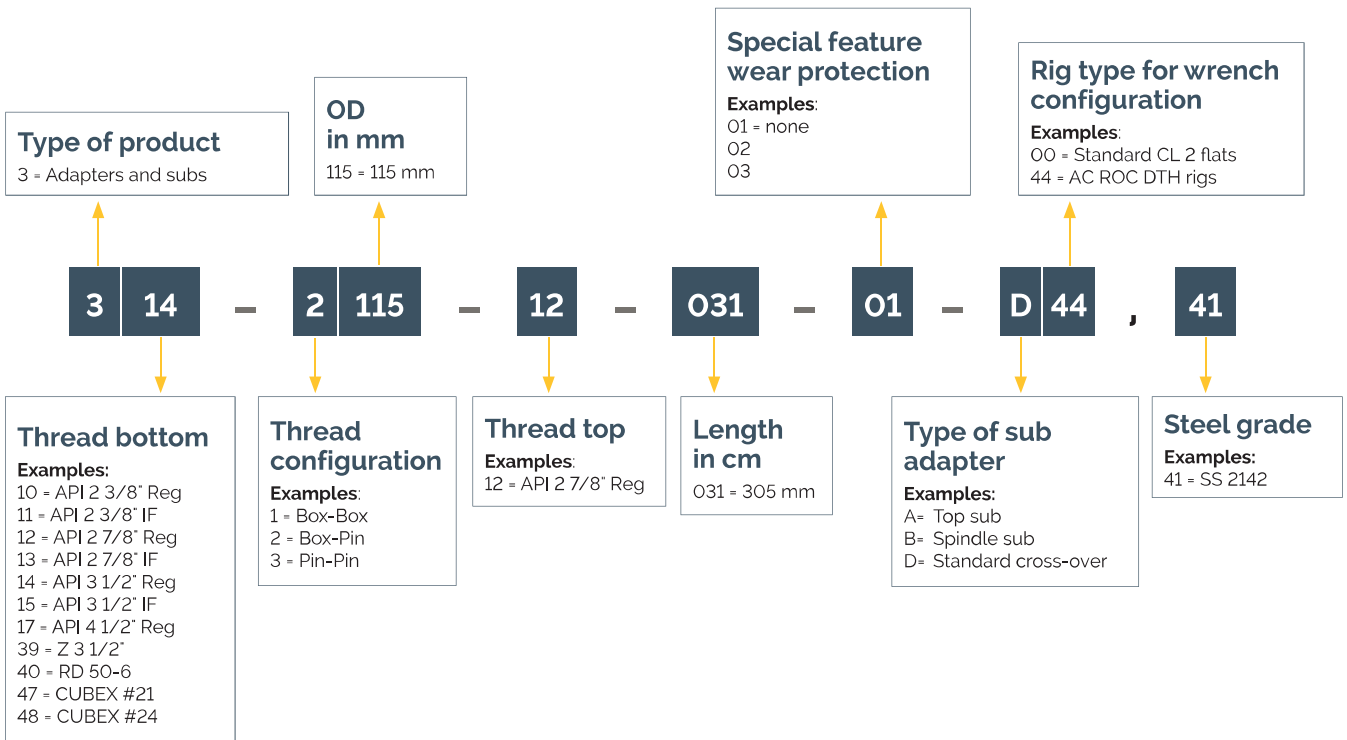
Cont. Codes for DTH hammers

Example: 9706-CG-00-14P-26-HBO-000 = COP 64 Gold, comp QM, 3 1/2" API Reg Pin

Connection config	Shank	Feature	Feature	Feature	Spare part /Kit
P	26	H	B	O	000
Examples: O = No Thread B = Box H = Hexagonal N = Blank P = Pin T = Top and bottom	Examples: 01 = COP M6 02 = COP M8 03 = COP M7 24 = QL40 25 = QL50 26 = QL60 29 = QL80 34 = DHD 340 A 35 = DHD 3,5 36 = DHD 112 37 = DHD 350 R 38 = DHD 380 42 = DHD 112 S. 44 = COP 20 (BR2) 59 = DHD 360 63 = TD 90 64 = TD 40	Examples: O = STD/No Feature G = Guided casing H = Thick casing P = Shot peened thick casing S = Reduced OD T = Tough casing U = Shot peened threads X = Super Thick Casing	Examples: O = STD/No Feature B = Back reaming buttons D = Back reaming & custom flats F = Custom flats R = Back Reaming & Thread Relief Cut T = Non std two start thread W = Break out washers	Examples: O = STD/No Feature D = Drive pins E = D + W F = D + R G = Guided chuck L = Left handed N = Non std triple start thread R = Retrieval system S = Super chuck incl D T = Two piece chuck W = Break out washers V = Vented bit Bearings X = R+V Z = Hard Faced Chuck 2 = Duel lead or non std. Chuck	Examples: Chuck = 001 Kits = Kxx E-kit = K40 A-kit = K10 Assembly = Axx

Codes for adapters

Example: 314-2115-12-031-01-D44,41 = Box-Pin 3 1/2" x 2 7/8" API Reg, OD 115 mm, L 305 mm, ROC



Bit shanks and drill bits

Epiroc has a comprehensive range of DTH drill bits to match all conceivable applications. Each bit is made from quality alloy steel, and has been precision machined to produce a perfect body, heat treated to the required hardness, given surface compression for fatigue resistance, and fitted with precision buttons manufactured in-house.

Five basic designs are available: Convex, Flat front, SpeedBit, Concave, and RocketBit. These are designed for specific applications for all rock types, hardness's and conditions.

Bit life and rate of penetration are the most important criteria in selecting the right bit for a particular application. In most cases, the focus is on productivity, so the fast cuttings removal features of the SpeedBit and Convex/Ballistic designs are preferable, to ensure the buttons are cutting clean, with the minimum of re-crushing.

In hard and abrasive formations, however, the flat front design offers best bit life, having strong gauge rows with large spherical buttons which are easy to regrind and maintain.

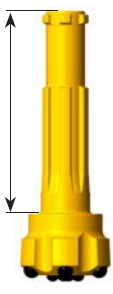
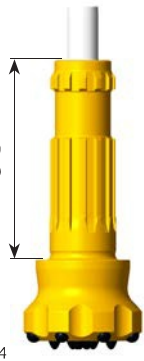
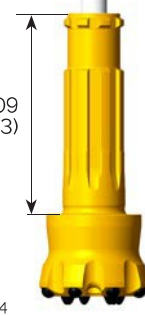
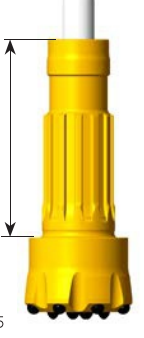
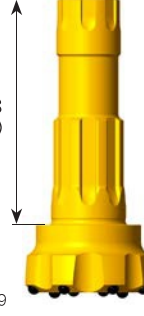
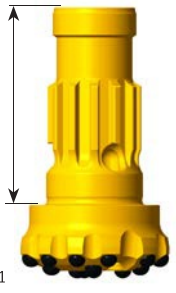
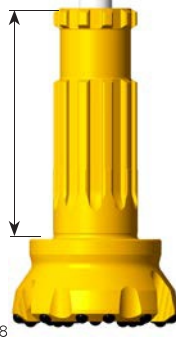
The SpeedBit offers improved productivity with the same gauge as the Flat front, but with ballistic buttons in the front for faster penetration. An alternative is the Concave design with spherical buttons.

The RocketBit can be dressed with ballistic buttons for use in soft to medium hard formations where fractured rock can be expected, or can be supplied with spherical buttons for hard and abrasive formations.

Bits are manufactured to match all diameters of Epiroc hammers.

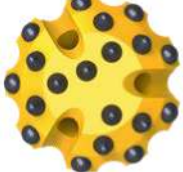
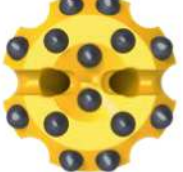


Epiroc bit shanks

BR 2 COP 20  165 (6.50) 6 spline Shank code 44	DHD 3.5 COP 35 TD 35.2 QLX 35 DHD 3.5  180.9 (7.12) 8 spline Shank code 35	TD 40 COP 44 G QLX 40  209 (8.23) 12 spline Shank code 64	DHD 340A COP 44 DHD 4 QL 340  209 (8.23) 8 spline Shank code 34
DHD 350R COP 54 DHD 5  260 (10.24) 8 spline Shank code 37	QL 50 QL 50 TD 50 COP 54 G  239.6 (9.43) 12 spline Shank code 25	DHD 360 COP 64 DHD 6  308 (12.13) 8 spline Shank code 59	COP M6 COP M6  225 (8.86) 12 spline Shank code 01
COP M7 COP M7  303 (11.93) 12 spline Shank code 03	COP M8 COP M8  303 (11.93) 12 spline Shank code 02	QL 60 QL 60 TD 60/65/70 COP 64 G  253.3 (9.97) 12 spline Shank code 26	DHD 380 DHD 8  350 (13.78) 10 spline Shank code 38
QL 80 QL 80 TD 80 TD 85  332 (13.07) 16 spline Shank code 29			

Bit shanks and drill bits

Drill bits – standard assortment

				
Flat front Applications: Hard and abrasive formations, all round. Typical formations: Granite, hard limestone, basalt.	SpeedBit Applications: Medium hard to hard and abrasive formations. For higher productivity. Design feature: Ballistic buttons in front. Typical formations: Granite, hard limestone, basalt.	Convex front, ballistic Applications: Soft to medium hard rock. Non abrasive formations. High penetration rate. Typical formations: Limestone, hard limestone, shale.	Concave front Applications: Medium hard to hard formations. Less abrasive, fractured formations. Excellent control over hole deviation. Design feature: HD - larger gauge buttons. DGR - double (overlap-Ping) gauge row. Only from 8". Typical formations: Granite, hard limestone, basalt.	RocketBit Applications: Soft to medium hard formations. For exceptional productivity. Fractured rock. Design feature: Spherical buttons for hard and abrasive formations. Ballistic buttons for soft formations. Typical formations: Limestone, hard limestone

BR2 shank (COP 20 hammer)

Diameter		Product no.	Product code	No. × button diameter, mm			Gauge buttons angle*		Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Outer	Inner		kg	lbs
Flat front											
70	2 3/4	93501726	100-5070-44-121E,33-22	6x10, Spherical	–	5x10, Spherical	35	–	2	2,2	4,9
72	2 7/8	93501002	100-5072-44-121E,33-22	6x10, Spherical	–	4x10, Spherical	35	–	2	2,2	4,9
76	3	93501005	100-5076-44-1B1F,33-22	6x12, Spherical	–	4x10, Spherical	35	–	2	2,3	5,1
76	3	93501006	100-5076-44-1B2F,33-22	6x12, Semi-Ballistic	–	4x10, Semi-Ballistic	35	–	2	2,3	5,1
76	3	93501446	100-5076-44-1B4F,33-22	6x12, Ballistic	–	4x10, Semi-Ballistic	35	–	2	2,3	5,1
80	3 3/16	93501008	100-5080-44-1B1F,33-22	6x12, Spherical	–	5x10, Spherical	35	–	2	2,5	5,5
89	3 1/2	93501725	100-5089-44-121F,33-22	6x12, Spherical	–	6x10, Spherical	35	–	2	2,7	6,0
Convex											
70	2 3/4	93501000	100-5070-44-221E,33-22	6x10, Spherical	–	5x10, Spherical	35	–	2	2,2	4,9
70	2 3/4	93501001	100-5070-44-224E,33-22	6x10, Spherical	–	5x10, Semi-Ballistic	35	–	2	2,2	4,9
76	3	93501004	100-5076-44-224F,33-22	6x12, Spherical	–	5x10, Semi-Ballistic	35	–	2	2,3	5,1
96	3 3/4	93501012	100-5096-44-223A,33-22	7x12, Ballistic	–	6x12, Ballistic	35	–	2	2,7	6,0

COP M6 shank (COP M6 hammer)

Diameter		Product No.	Product code	No. × Button diameter mm (inch)				Gauge/Button angle°		Flushing holes	Weight approx.	
Diameter	inch			Outer	Inner	Front	Cone	Outer	Inner		kg	lbs
Flat front												
165	6 1/2	90030098	100-5165-01-1312.08-20'	9x19	–	10x16	–	35	–	3	22.8	50.3
165	6 1/2	90030088	100-5165-01-1312-.08-12''	9x19	–	10x16	–	35	–	3	22.8	50.3
171	6 3/4	90030086	100-5171-01-1313.08-20	12x19	–	10x19	–	35	–	3	23.7	52.2
171	6 3/4	90030089	100-5171-01-1313.08-12	12x19	–	10x19	–	35	–	3	23.7	52.2
178	7	5697001237	100-5178-01-131B.08-20	12x19	–	12x19	–	35	–	3	24.2	53.4
178	7	5697001248	100-5178-01-131B.08-12	12x19	–	12x19	–	35	–	3	24.2	53.4
Convex spherical												
165	6 1/2	90030090	100-5165-01-2312.08-20	9x19	6x16	5x16	–	35	20	3	22.4	49.4
165	6 1/2	90030091	100-5165-01-2312.08-12	9x19	6x16	5x16	–	35	20	3	22.4	49.4
171	6 3/4	90030095	100-5171-01-2313.08-20	12x19	6x19	5x19	–	35	20	3	23.3	51.4
171	6 3/4	90030094	100-5171-01-2313.08-12	12x19	6x19	5x19	–	35	20	3	23.3	51.4
203	6 3/4	5697000556	100-5203-01-231B.08-20	12x19	6x19	6x19	–	35	20	3	27.57	60.82

*20 For hard – medium hard rock

**12 For iron ore

COP M7 shank (COP M7 hammer)

Diameter		Product No.	Product code	No. × Button diameter mm (inch)				Gauge/Button angle°		Flushing holes	Weight approx.	
Diameter	inch			Outer	Inner	Front	Cone	Outer	Inner		kg	lbs
Convex spherical												
200	7 7/8	90030105	100-5200-03-2313.08-20'	12x19	9x19	9x19	–	35	15	3	45,3	99,9
200	7 7/8	90030106	100-5200-03-2313.08-12''	12x19	9x19	9x19	–	35	15	3	45,3	99,9
203	8	90030103	100-5203-03-2313.08-20	12x19	9x19	9x19	–	35	15	3	45,8	100,9
203	8	90030104	100-5203-03-2313.08-12	12x19	9x19	9x19	–	35	15	3	45,8	100,9
216	8 1/2	90030101	100-5216-03-2313.08-20	12x19	9x19	11x19	–	35	15	3	47,4	104,5
216	8 1/2	90030102	100-5216-03-2313.08-12	12x19	9x19	11x19	–	35	15	3	47,4	104,5
222	8 3/4	5697000612	100-5222-03-2313.08-20	12x19	9x19	11x19	–	35	15	3	50	110,2
222	8 3/4	5697000878	100-5222-03-2313.08-12	12x19	9x19	11x19	–	35	15	3	50	110,2
229	9	90030099	100-5229-03-2313.08-20	12x19	9x19	15x19	–	35	15	3	50,8	111,9
229	9	90030100	100-5229-03-2313.08-12	12x19	9x19	15x19	–	35	15	3	50,8	111,9

*20 For hard – medium hard rock

**12 For iron ore

COP M8 shank (COP M8 hammer)

Diameter		Product No.	Product code	No. × Button diameter mm (inch)				Gauge/Button angle°		Flushing holes	Weight approx.	
Diameter	inch			Outer	Inner	Front	Cone	Outer	Inner		kg	lbs
Speed bit												
216	8 1/2	90030117	100-5216-02-2343.08-20	12x19	9x19	11x19	–	35	15	3	54,2	119,5
Convex spherical												
216	8½	90030115	100-5216-02-2313.08-20	12x19	9x19	11x19	–	35	15	3	53,9	118,8
216	8 1/2	90030116	100-5216-02-2313.08-12	12x19	9x19	11x19	–	35	15	3	53,9	118,8
222	8 3/4	90030113	100-5222-02-2313.08-20'	12x19	9x19	11x19	–	35	15	3	54,6	120,4
222	8 3/4	90030114	100-5222-02-2313.08-12''	12x19	9x19	11x19	–	35	15	3	54,6	120,4
229	9	5697000880	10B-5229-02-2313.08-20	12x19	9x19	11x19	–	35	15	3	55,4	122,1
229	9	5697001324	10B-5229-02-2313.08-12	12x17	9x17	11x17	–	35	15	3	55,4	122,1
229	9	90030111	100-5229-02-2313.08-20	12x19	9x19	11x19	–	35	15	3	55,4	122,1
229	9	90030112	100-5229-02-2313.08-12	12x19	9x19	11x19	–	35	15	3	55,4	122,1
251	9 7/8	90030109	100-5251-02-2313.08-20	12x19	9x19	18x19	–	35	15	3	59,6	131,4
251	9 7/8	90030110	100-5251-02-2313.08-12	12x19	9x19	18x19	–	35	15	3	59,6	131,4
251	9 7/8	5697001490	10B-5251-02-2313.08-12	12x19	9x19	18x19	–	35	15	3	59,6	131,4
254	10	90030107	100-5254-02-2313.08-20	12x19	9x19	18x19	–	35	15	3	60,0	132,2
254	10	5697000353	10B-5254-02-2313.08-20	12x19	9x19	18x19	–	35	15	3	60,0	132,2
254	10	90030108	100-5254-02-2313.08-12	12x19	9x19	18x19	–	35	15	3	60,0	132,2
Concave Convex												
229	9	5697000873	10B-5229-02-4313.08-20	12x19	9x19	11x19	–	35	15	3	55,4	122,1
229	9	5697001325	10B-5229-02-4313.08-12	12x18	9x18	11x18	–	35	15	3	55,4	122,1
270	10 5/8	5697001329	10B-5270-02-4313.08-12	12x19	9x19	16x19	–	35	15	3	74,4	164

*20 For hard – medium hard rock

**12 For iron ore

DHD 3.5 (DHD 3.5, COP 35, QLX 35)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)				Gauge buttons angle°		Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Cone	Outer	Inner		kg	lbs
Flat front												
90	3 9/16	90515317	100-5090-35-1214,10-20	8x12,7 (1/2)	–	7x11 (7/16)	–	35	–	2	5,8	12,8
92	3 5/8	90515318	100-5092-35-1214,10-20	8x12,7 (1/2)	–	7x11 (7/16)	–	35	–	2	5,8	12,8
95	3 3/4	90515319	100-5095-35-1214,10-20	8x12,7 (1/2)	–	7x11 (7/16)	–	35	–	2	5,9	13,0
100	3 15/16	90515320	100-5100-35-121A,10-20	8x12,7 (1/2)	–	7x12,7 (1/2)	–	35	–	2	6,1	13,4
105	4 1/8	90515321	100-5105-35-1210,10-20	8x14,5 (9/16)	–	7x12,7 (1/2)	–	35	–	2	6,3	13,9
Speedbit												
92	3 5/8	90515322	100-5092-35-1254,10-20	8x12,7 (1/2)	–	7x11 (7/16)	–	35	–	2	5,8	12,8
95	3 3/4	90515323	100-5095-35-1254,10-20	8x12,7 (1/2)	–	7x11 (7/16)	–	35	–	2	5,9	13,0
100	3 15/16	90515324	100-5100-35-125A,10-20	8x12,7 (1/2)	–	7x12,7 (1/2)	–	35	–	2	6,1	13,4
105	4 1/8	90515325	100-5105-35-1250,10-20	8x14,5 (9/16)	–	7x12,7 (1/2)	–	35	–	2	6,3	13,9
Concave												
100	3 15/16	90515330	100-5100-35-021A,10-20	8x12,7 (1/2)	–	4x12,7 (1/2)	2x12,7 (1/2)	35	-20	2	5,2	11,4
Rocket bit												
90	3 9/16	90515757	100-5090-35-623A,10-20	7x12,7 (1/2)	4x12,7 (1/2)	2x12,7 (1/2)	–	40	20	2	5,1	11,2
95	3 3/4	90515700	100-5095-35-623A,10-20	7x12,7 (1/2)	4x12,7 (1/2)	2x12,7 (1/2)	–	40	20	2	5,3	11,7
100	3 15/16	90003690	100-5100-35-6224,10-20	8x12,1 (1/2)	6x10,95 (1/2)	2x10,95 (1/2)	–	45	30 (15)	2	5,2	11,4
105	4 1/8	90003691	100-5105-35-6224,10-20	8x12,1 (1/2)	6x10,95 (1/2)	2x10,95 (1/2)	–	40	30 (15)	2	5,3	11,7
Foot valve		90515375	9091-90515375									
Assembly tool		90515511	9110-90515511									

Bit shanks and drill bits

DHD 340 shank (COP 44 STD, DHD 4, QL340)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)					Gauge buttons angle°				Flushing holes	Weight approx		
mm	inch			Outer	Outer	Inner	Front	Cone	Outer	Middle	Inner	Cone		kg	lbs	
Flat front																
105	4 1/8	90513713	100-5105-34-1210,10-20	8x14.5 (9/16)	–	–	7x12.7 (1/2)	–	35	–	–	–	2	8,6	19,0	
110	4 5/16	90513714	100-5110-34-1210,10-20	8x14.5 (9/16)	–	–	7x12.7 (1/2)	–	35	–	–	–	2	8,8	19,4	
115	4 1/2	90513715	100-5115-34-1210,10-20	8x14.5 (9/16)	–	–	8x12.7 (1/2)	–	35	–	–	–	2	9,0	19,8	
125	5	90513716	100-5125-34-1210,10-20	8x14.5 (9/16)	–	–	10x12.7 (1/2)	–	35	–	–	–	2	9,5	20,9	
130	5 1/8	90515203	100-5130-34-1218,10-20	8x15.8 (5/8)	–	–	8x14.5 (9/16)	–	35	–	–	–	2	9,9	21,8	
130	5 1/8	90513717	100-5130-34-1210,10-20	8x14.5 (9/16)	–	–	8x12.7 (1/2)	–	35	–	–	–	2	9,9	21,8	
140	5 1/2	90515560	100-5140-34-1218,10-20	8x15.8 (5/8)	–	–	8x14.5 (9/16)	–	35	–	–	–	2	10,5	23,1	
152	6	90515559	100-5152-34-1217,10-20	8x16 (5/8)	–	–	9x16 (5/8)	–	35	–	–	–	2	11,5	25,4	
165	6 1/2	90513612	100-5165-34-1211,08-20	10x16 (5/8)	–	–	10x16 (5/8)	–	35	–	–	–	2	13,6	29,9	
Speedbit																
105	4 1/8	90513718	100-5105-34-1250,10-20	8x14.5 (9/16)	–	–	7x12.7 (1/2)	–	35	–	–	–	2	8,6	19,0	
110	4 5/16	90513719	100-5110-34-1250,10-20	8x14.5 (9/16)	–	–	7x12.7 (1/2)	–	35	–	–	–	2	8,8	19,4	
115	4 1/2	90513720	100-5115-34-1250,10-20	8x14.5 (9/16)	–	–	8x12.7 (1/2)	–	35	–	–	–	2	9,0	19,8	
125	4 15/16	90513721	100-5125-34-1250,10-20	8x14.5 (9/16)	–	–	10x12.7 (1/2)	–	35	–	–	–	2	9,7	21,4	
130	5 1/8	90513722	100-5130-34-1250,10-20	8x14.5 (9/16)	–	–	10x12.7 (1/2)	–	35	–	–	–	2	9,7	21,4	
Concave																
115	4 1/2	90514996	100-5115-34-0210,10-20	8x14.5 (9/16)	–	–	4x12.7 (1/2)	2x12.7 (1/2)	35	–	–	-20	2	9,0	19,8	
115	4 1/2	90515255	10b-5115-34-0210,10-20	8x14.5 (9/16)	–	–	4x12.7 (1/2)	2x12.7 (1/2)	35	–	–	-20	2	9,0	19,8	
115	4 1/2	90515226	100-5115-34-0227,10-20	8x15.8 (5/8)	–	–	4x15.8 (5/8)	3x15.8 (5/8)	35	–	–	-20	2	9,0	19,8	
121	4 3/4	90514999	100-5121-34-0210,10-20	8x14.5 (9/16)	–	–	4x12.7 (1/2)	4x12.7 (1/2)	35	–	–	-20	2	9,1	20,1	
121	4 3/4	90515286	100-5121-34-0250,10-20	8x14.5 (9/16)	–	–	4x12.7 (1/2)	4x12.7 (1/2)	35	–	–	-20	2	9,1	20,1	
Convex ballistic																
105	4 1/8	90513723	100-5105-34-2239,10-20	7x14.5 (9/16)	–	4x14.5 (9/16)	2x14.5 (9/16)	–	40	–	20	–	2	8,3	18,3	
115	4 1/2	90513725	100-5115-34-2239,10-20	7x14.5 (9/16)	–	4x14.5 (9/16)	3x14.5 (9/16)	–	40	–	20	–	2	8,6	19,0	
125	4 15/16	90513726	100-5125-34-223A,10-20	9x12.7 (1/2)	–	6x12.7 (1/2)	5x12.7 (1/2)	–	40	–	20	–	2	8,8	19,4	
130	5 1/8	90513727	100-5130-34-223A,10-20	9x12.7 (1/2)	–	6x12.7 (1/2)	5x12.7 (1/2)	–	40	–	20	–	2	9,2	20,3	
Rocket bit ballistic																
110	4 5/16	90515306	100-5110-34-623A-10-20	8x12.7 (1/2)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	–	45	30	15	–	2	8,7	19,2	
115	4 1/2	90515305	100-5115-34-623A-10-20	8x12.7 (1/2)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	–	45	30	15	–	2	8,9	19,6	
Rocket bit spherical																
110	4 5/16	90003674	100-5110-34-6210,10-20	8x14.5 (9/16)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	–	45	30	15	–	2	8,7	19,2	
115	4 1/2	90515548	100-5115-34-6210,10-20	8x14.5 (9/16)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	–	45	30	15	–	2	8,9	19,6	
Foot valve		86002883	9227													
Assembly tool		89001223	9226													

DHD 350R shank (COP 54 STD, DHD 5)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)				Gauge buttons angle°			Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Cone	Outer	Inner	Cone		kg	lbs
Flat front													
130	5	90515101	100-5130-37-1218,10-20	8x16 (5/8)	–	8x14.5 (9/16)	–	35	–	–	2	15,9	35,1
134	5 1/4	90514419	100-5134-37-1218,10-20	8x16 (5/8)	–	8x14.5 (9/16)	–	35	–	–	2	16,2	35,7
140	5 1/2	90515009	100-5140-37-1218,10-20	8x16 (5/8)	–	10x14.5 (9/16)	–	35	–	–	2	16,6	36,6
146	5 3/4	90515086	100-5146-37-1218,10-20	8x16 (5/8)	–	10x14.5 (9/16)	–	35	–	–	2	17,0	37,5
149	5 7/8	90515090	100-5149-37-1218,10-20	8x16 (5/8)	–	10x14.5 (9/16)	–	35	–	–	2	17,0	37,5
152	6	90514957	100-5152-37-1217,10-20	8x16 (5/8)	–	8x16 (5/8)	–	35	–	–	2	17,8	39,2
165	6,5	90515769	100-5165-37-1217,08-20	8x16 (5/8)	–	8x16 (5/8)	–	35	–	–	2	19,0	41,8
Speedbit													
140	5 1/2	90515012	100-5140-37-1248,10-20	8x16 (5/8)	–	10x14.5 (9/16)	–	35	–	–	2	16,6	36,6
Concave													
140	5 1/2	90515008	100-5140-37-0218,10-20	8x16 (5/8)	–	4x14.5 (9/16)	4x14.5 (9/16)	35	–	-15	2	16,4	36,2
146	5 3/4	90515006	100-5146-37-0211,10-20	10x16 (5/8)	–	6x16 (5/8)	6x16 (5/8)	35	–	-15	2	17,2	37,9
152	6	90514973	100-5152-37-0217,10-20	8x16 (5/8)	–	4x14.5 (9/16)	4x14.5 (9/16)	35	–	-15	2	17,3	38,1
Convex ballistic													
130	5	90515516	100-5130-37-2339,10-20	9x14.5 (9/16)	6x14.5 (9/16)	4x14.5 (9/16)	–	40	20	–	3	15,7	34,6
140	5 1/2	90515423	100-5140-37-2339,10-20	9x14.5 (9/16)	6x14.5 (9/16)	4x14.5 (9/16)	–	40	20	–	3	16,3	35,9
Foot valve		86008296	9164										
Assembly tool		89001185	9163										



Bit shanks and drill bits

DHD 360 shank (COP 64 STD, DHD 6)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)				Gauge buttons angle°			Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Cone	Outer	Inner	Cone		kg	lbs
Flat front													
152	6	90515693	100-5152-59-1217,08-20	8x16 (5/8)	–	8x16 (5/8)	–	35	–	–	2	23,3	51,4
159	6 1/4	90515687	100-5159-59-1217,08-20	8x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	23,8	52,5
165	6 1/2	90515612	100-5165-59-1217,08-20	8x16 (5/8)	–	10x16 (5/8)	–	35	–	–	2	25,2	55,6
165	6 1/2	90515592	100-5165-59-1211,08-20	10x16 (5/8)	–	10x16 (5/8)	–	35	–	–	2	25,4	56,0
171	6 3/4	90515594	100-5171-59-1211,08-20	10x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	25,8	56,9
178	7	90504501	100-5178-59-1211,08-20	10x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	26,4	58,1
191	7 1/2	90504502	100-5191-59-1211,08-20	10x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	28,4	62,5
203	8	90504092	100-5203-59-1211,08-20	10x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	30,4	66,9
Concave													
152	6	90515676	100-5152-59-0217,08-20	8x16 (5/8)	–	4x16 (5/8)	4x16 (5/8)	35	–	-15	2	23,1	50,9
154	6	90515680	100-5154-59-0217,08-20	8x16 (5/8)	–	4x16 (5/8)	4x16 (5/8)	35	–	-15	2	23,2	51,2
165	6 1/2	90515596	100-5165-59-0211,08-20	10x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	2	25,2	55,6
165	6 1/2	90515657	100-5165-59-021b,08-20	10x19 (3/4)	–	6x19 (3/4)	19x19 (3/4)	35	–	-15	2	25,2	55,6
178	7	90504711	100-5178-59-0217,08-20	8x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	2	26,4	58,1
191	7 1/2	90509911	100-5191-59-0217,08-20	8x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	2	28,4	62,5
203	8	90505128	100-5203-59-0411,08-20	10x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	4	30,4	66,9
216	8 1/2	90505129	100-5216-59-0411,08-20	10x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	4	32,4	71,3
219	8 3/5	90509688	100-5219-59-0411,08-20	10x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	4	32,7	71,9
Convex spherical													
171	6 3/4	90515623	100-5171-59-231b,08-20	9x19 (3/4)	6x19 (3/4)	4x19 (3/4)	–	–	–	–	3	25,5	56,2
Foot valve		86002893	9235										
Assembly tool		89000845	9182										

DHD 380 shank (DHD 380)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)				Gauge buttons angle°			Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Cone	Outer	Inner	Cone		kg	lbs
Concave													
203	8	90516062	10T-5203-38-021b,08-20	8x19 (3/4)	–	12x19 (3/4)	–	–	–	–	2	48,1	105,9
222	8 3/4	90516068	10T-5222-38-021b,08-20	10x19 (3/4)	–	15x19 (3/4)	–	–	–	–	2	53,1	117,0
241	9 1/2	90516241	10T-5241-38-021b,08-20	10x19 (3/4)	–	16x19 (3/4)	–	–	–	–	2	58,7	129,3
254	10	90516146	10T-5254-38-0313,08-20	12x19 (3/4)	6x19 (3/4)	12x19 (3/4)	–	–	–	–	3	65,0	143,2
305	12	90516232	10T-5305-38-421b,08-20	10x19 (3/4)	6x19 (3/4)	19x19 (3/4)	–	–	–	–	2	83,5	183,9
Convex concave													
225	8 7/8	90516056	10T-5225-38-4213,08-20	12x19 (3/4)	6x19 (3/4)	8x19 (3/4)	–	–	–	–	2	54,7	120,5
254	10	90516151	10T-5254-38-421b,08-20	10x19 (3/4)	5x19 (3/4)	10x19 (3/4)	–	–	–	–	2	61,0	134,4
279	11	90516244	10T-5279-38-421b,08-20	10x19 (3/4)	6x19 (3/4)	15x19 (3/4)	–	–	–	–	2	77,9	171,6
Foot valve		90509855	9224										
Assembly tool		89000848	9184										



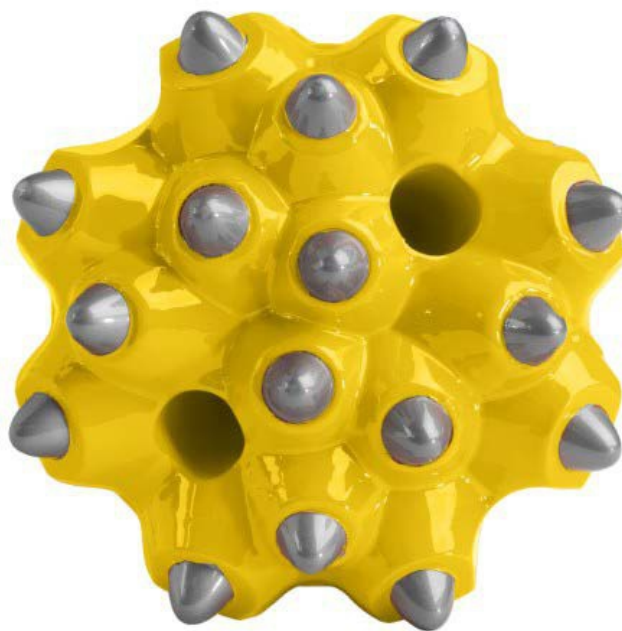
TD 40 shank (COP 44 Gold, COP W4 2.0, QLX 40 hammers)

Diameter		Product no.	Product code	No. x button diameter, mm (inch)					Gauge buttons angle*				Flushing holes	Weight approx	
mm	inch			Outer	Outer	Inner	Front	Cone	Outer	Middle	Inner	Cone		kg	lbs
Flat front															
110	4 5/16	90516005	100-5110-64-1210.10-20	8x14.5 (9/16)	-	-	7x12.7 (1/2)	-	35	-	-	-	2	9.1	20.1
115	4 1/2	90516006	100-5115-64-1210.10-20	8x14.5 (9/16)	-	-	7x12.7 (1/2)	-	35	-	-	-	2	9.3	20.5
120	4 3/4	90516506	100-5120-64-1210.10-20	8x14.5 (9/16)	-	-	8x12.7 (1/2)	-	35	-	-	-	2	9.5	21.0
125	4 15/16	90516227	100-5125-64-1210.10-20	8x14.5 (9/16)	-	-	10x12.7 (1/2)	-	35	-	-	-	2	9.8	21.6
130	5 1/8	90516007	100-5130-64-1218.10-20	8x15.8 (5/8)	-	-	8x14.5 (9/16)	-	35	-	-	-	2	10.2	22.5
140	5 1/2	90516447	100-5140-64-1218.10-20	8x15.8 (5/8)	-	-	10x14.5 (9/16)	-	35	-	-	-	2	10.9	24.1
152	6	90516446	100-5152-64-1217.10-20	8x15.8 (5/8)	-	-	8x15.8 (5/8)	-	35	-	-	-	2	11.5	25.4
Speedbit															
110	4 1/3	90003521	100-5110-64-1250.10-20	8x14.5 (9/16)	-	-	8x12.7 (1/2)	-	35	-	-	-	2	9.1	20.1
115	4 1/2	90516008	100-5115-64-1250.10-20	8x14.5 (9/16)	-	-	8x12.7 (1/2)	-	35	-	-	-	2	9.3	20.5
115	4 1/2	90516450	100-5115-64-1228.10-20	8x15.8 (5/8)	-	-	6x12.7 (1/2)	-	35	-	-	-	2	9.4	20.8
120	4 3/4	90516516	100-5120-64-1250.10-20	8x14.5 (9/16)	-	-	8x12.7 (1/2)	-	35	-	-	-	2	9.5	21.0
125	4 15/16	90516364	100-5125-64-1250.10-20	8x14.5 (9/16)	-	-	10x12.7 (1/2)	-	35	-	-	-	2	9.7	21.4
130	5 1/8	90516365	100-5130-64-1250.10-20	8x14.5 (9/16)	-	-	10x12.7 (1/2)	-	35	-	-	-	2	9.7	21.4
Concave															
115	4 1/2	90029164	100-5115-64-0227.10-20	8x15.8 (5/8)	-	-	4x15.8 (5/8)	3x15.8 (5/8)	35	-	-	-20	2	9.1	20.1
130	5 1/8	90029022	100-5130-64-0218.10-20	8x15.8 (5/8)	-	-	4x14.5 (9/16)	3x14.5 (9/16)	35	-	-	-20	2	9.4	20.7
Convex ballistic															
127	5	90029253	100-5127-64-2359.10-20	7x14.5 (9/16)	-	4x14.5 (9/16)	3x14.5 (9/16)	-	40	-	20	-	3	8.9	16.6
Rocket bit ballistic															
110	4 5/16	90516010	100-5110-64-623A.10-20	8x12.7 (1/2)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	-	40	30	15	-	2	8.5	18.8
115	4 1/2	90516011	100-5115-64-623A.10-20	8x12.7 (1/2)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	-	40	30	15	-	2	8.6	19.0
Rocket bit spherical															
110	4 5/16	90003709	100-5110-64-6210.10-20	8x14.5 (9/16)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	-	40	30	15	-	2	8.6	19.0
115	4 1/2	90516012	100-5115-64-6210.10-20	8x14.5 (9/16)	4x12.7 (1/2)	2x12.7 (1/2)	2x12.7 (1/2)	-	40	30	15	-	2	8.7	19.2
Flat front x-tra bit. spherical Pcd															
115	4 1/2	90029239	100-5115-64-1210.10-B1	8x14.5 (9/16)	-	-	7x12.7 (1/2)	-	35	-	-	-	2	9.9	21.8
Foot valve		90516004	9115												
Assembly tool		90516013	9141												



QL 50 shank (QL 50/55, QL 50.2/QL 55.2, QLX 50/55, COP 54 Gold hammers)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)				Gauge buttons angle*			Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Cone	Outer	Inner	Cone		kg	lbs
Flat front													
134	5 1/4	90514420	100-5134-25-1218,10-20	8x16 (5/8)	–	8x14.5 (9/16)	–	35	–	–	2	16.2	35.7
140	5 1/2	90514382	100-5140-25-1218,10-20	8x16 (5/8)	–	10x14.5 (9/16)	–	35	–	–	2	16.6	36.6
146	5 3/4	90515087	100-5146-25-1218,10-20	8x16 (5/8)	–	9x14.5 (9/16)	–	35	–	–	2	17.2	37.9
149	5 7/8	90515091	100-5149-25-1218,10-20	8x16 (5/8)	–	9x14.5 (9/16)	–	35	–	–	2	17.1	37.7
152	6	90514958	100-5152-25-1217,10-20	8x16 (5/8)	–	8x16 (5/8)	–	35	–	–	2	17.8	39.3
165	6 1/2	90515770	100-5165-25-1217,08-20	8x16 (5/8)	–	10x16 (5/8)	–	35	–	–	2	19.0	41.8
Speedbit													
130	5 1/8	90515775	100-5130-25-1248,10-20	8x16 (5/8)	–	8x14.5 (9/16)	–	35	–	–	2	15.9	35.1
134	5 1/4	90514674	100-5134-25-1248,10-20	8x16 (5/8)	–	8x14.5 (9/16)	–	35	–	–	2	16.2	35.7
Concave													
134	5 1/4	90516229	100-5134-25-0218,10-12	8x16 (5/8)	–	4x14.5 (9/16)	3x14.5 (9/16)	35	–	-15	2	16.1	35.5
140	5 1/2	90514387	100-5140-25-0218,10-20	8x16 (5/8)	–	4x14.5 (9/16)	4x14.5 (9/16)	35	–	-15	2	16.4	36.2
140	5 1/2	90515095	100-5140-25-0238,10-20	9x16 (5/8)	–	6x14.5 (9/16)	5x14.5 (9/16)	35	–	-15	2	16.4	36.2
140	5 1/2	90516398	100-5140-25-0248,10-12	9x16 (5/8)	–	6x14.5 (9/16)	5x14.5 (9/16)	35	–	-15	2	16.4	36.2
146	5 3/4	90515720	100-5146-25-0211,10-12	10x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	2	17.2	37.9
152	6	90514974	100-5152-25-0217,10-20	8x16 (5/8)	–	4x16 (5/8)	4x16 (5/8)	35	–	-15	2	17.7	39.0
152	6	90516348	100-5152-25-0247,10-12	8x16 (5/8)	–	4x14.5 (9/16)	4x14.5 (9/16)	35	–	-15	2	17.7	39.0
Convex ballistic													
130	5 1/8	90515517	100-5130-25-2339,10-20	9x14.5 (9/16)	6x14.5 (9/16)	4x14.5 (9/16)	–	40	20	–	3	15.7	34.6
140	5 1/2	90515424	100-5140-25-2339,10-20	9x14.5 (9/16)	6x14.5 (9/16)	4x14.5 (9/16)	–	40	20	–	3	16.3	35.9
Convex spherical													
152	6	90003613	100-5152-25-2212,10-20	8x19 (3/4)	4x16 (5/8)	4x16 (5/8)	–	35	20	–	2	17.0	37.4
Convex / concave, spherical													
146	5 3/4	90003655	100-5146-25-421b,10-20	8x19 (3/4)	4x19 (3/4)	3x19 (3/4)	–	35	20	–	2	16.1	35.4
Convex x-tra bit. spherical Pcd													
140	5 1/2	90029240	100-5140-25-2217,10-B1	8x16 (5/8)	4x16 (5/8)	3x16 (5/8)	–	35	20	–	2	17.1	37.6
Foot valve		90515427	9257										
Assembly tool		89000993	9190										





QL 60 shank (QL 60/65, QLX 60/65 hammers)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)				Gauge buttons angle°			Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Cone	Outer	Inner	Cone		kg	lbs
Flat front													
152	6	90515694	100-5152-26-1217.08-20	8x16 (5/8)	–	8x16 (5/8)	–	35	–	–	2	22.3	49.2
156	6 1/8	90515691	100-5156-26-1217.08-20	8x16 (5/8)	–	8x16 (5/8)	–	35	–	–	2	22.5	49.6
159	6 1/4	90515688	100-5159-26-1217.08-20	8x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	22.8	50.3
165	6 1/2	90515613	100-5165-26-1217.08-20	8x16 (5/8)	–	10x16 (5/8)	–	35	–	–	2	24.2	53.4
165	6 1/2	90515589	100-5165-26-1211.08-20	10x16 (5/8)	–	10x16 (5/8)	–	35	–	–	2	24.4	53.8
165	6 1/2	90515706	100-5165-26-1312.08-20	9x19 (3/4)	–	9x16 (5/8)	–	35	–	–	3	24.8	54.7
171	6 3/4	90515595	100-5171-26-1211.08-20	10x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	24.8	54.7
171	6 3/4	90515665	100-5171-26-1212.08-20	10x19 (3/4)	–	9x16 (5/8)	–	35	–	–	2	25.0	55.1
203	8	90514314	100-5203-26-1211.08-20	10x16 (5/8)	–	16 (5/8")	–	35	–	–	–	31.5	69.4
Speedbit													
165	6 1/2	90515609	100-5165-26-1241.08-20	10x16 (5/8)	–	10x16 (5/8)	–	35	–	–	2	24.4	53.8
171	6 3/4	90515710	100-5171-26-1241.08-20	10x16 (5/8)	–	9x16 (5/8)	–	35	–	–	2	24.8	54.7
Concave													
152	6	90515677	100-5152-26-0217.08-20	8x16 (5/8)	–	4x16 (5/8)	4x16 (5/8)	35	–	-15	2	22.1	48.7
156	6 1/8	90515684	100-5156-26-0217.08-20	8x16 (5/8)	–	4x16 (5/8)	4x16 (5/8)	35	–	-15	2	22.3	49.2
159	6 1/4	90515673	100-5159-26-0217.08-20	8x16 (5/8)	–	4x16 (5/8)	4x16 (5/8)	35	–	-15	2	22.6	49.8
165	6 1/2	90515616	100-5165-26-0217.08-20	8x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	2	24.0	52.9
165	6 1/2	90515598	100-5165-26-0211.08-20	10x16 (5/8)	–	6x16 (5/8)	4x16 (5/8)	35	–	-15	2	24.2	53.4
171	6 3/4	90515621	100-5171-26-0211.08-20	10x16 (5/8)	–	6x16 (5/8)	6x16 (5/8)	35	–	-15	2	24.2	53.4
171	6 3/4	90515662	100-5171-26-0212.08-20	10x19 (3/4)	–	6x16 (5/8)	6x16 (5/8)	35	–	-15	2	24.8	54.7
203	8	90515013	100-5203-26-0411.08-20	10x16 (5/8)	–	16 (5/8)	–	35	–	–	–	30.4	67.0
Convex ballistic													
165	6 1/2	90515641	100-5165-26-2337.08-20	9x16 (5/8)	6x16 (5/8)	5x16 (5/8)	–	35	20	–	3	23.8	52.3
171	6 3/4	90515635	100-5171-26-232b.08-20	9x19 (3/4)	6x19 (3/4)	4x19 (3/4)	–	40	25	–	3	24.5	54.0
Convex spherical													
165	6 1/2	90515652	100-5165-26-221b.08-20	10x19 (3/4)	4x19 (3/4)	4x19 (3/4)	–	35	20	–	2	24.3	53.6
171	6 3/4	90515634	100-5171-26-231b.08-20	9x19 (3/4)	6x19 (3/4)	4x19 (3/4)	–	40	25	–	3	24.5	54.0
Foot valve		90514253	9283										
Assembly tool		89001189	9170										

QL 80 shank (QL 80/85, TD 80/85 hammers)

Diameter		Product no.	Product code	No. × button diameter, mm (inch)			Gauge buttons angle°			Flushing holes	Weight approx	
mm	inch			Outer	Inner	Front	Outer	Inner	Cone		kg	lbs
Flat front												
241	9 1/2	90516147	10T-5241-29-121b.08-20	12x19 (3/4)	–	13x19 (3/4)	–	–	–	2	60.1	132.4
254	10	90516145	10T-5254-29-1213.08-20	12x19 (3/4)	–	17x19 (3/4)	–	–	–	2	62.5	137.7
Concave												
203	8	90516061	10T-5203-29-021b.08-20	8x19 (3/4)	–	12x19 (3/4)	–	–	–	2	48.5	106.8
222	8 3/4	90516067	10T-5222-29-021b.08-20	10x19 (3/4)	–	15x19 (3/4)	–	–	–	2	53.5	117.8
251	9 7/8	90516248	10T-5251-29-021b.08-20	10x19 (3/4)	–	17x19 (3/4)	–	–	–	2	59.1	130.2
Convex concave												
200	7 7/8	90515847	10T-5200-29-421b.08-12	10x19 (3/4)	6x19 (3/4)	7x19 (3/4)	–	–	–	2	48.4	106.6
203	8	90516064	10T-5203-29-421b.08-20	10x19 (3/4)	6x19 (3/4)	6x19 (3/4)	–	–	–	2	48.7	107.3
216	8 1/2	90516070	10T-5216-29-421b.08-20	10x19 (3/4)	6x19 (3/4)	8x19 (3/4)	–	–	–	2	50.1	110.4
219	8 5/8	90516072	10T-5219-29-421b.08-20	10x19 (3/4)	6x19 (3/4)	8x19 (3/4)	–	–	–	2	50.7	111.7
222	8 3/4	90516002	10T-5222-29-4213.08-12	12x19 (3/4)	6x19 (3/4)	8x19 (3/4)	–	–	–	2	54.4	119.8
225	8 7/8	90516003	10T-5225-29-4213.08-20	12x19 (3/4)	6x19 (3/4)	8x19 (3/4)	–	–	–	2	55.1	121.4
254	10	90516150	10T-5254-29-421b.08-20	10x19 (3/4)	5x19 (3/4)	10x19 (3/4)	–	–	–	2	61.4	135.2
279	11	90516243	10T-5279-29-421b.08-20	10x19 (3/4)	6x19 (3/4)	15x19 (3/4)	–	–	–	2	78.3	172.5
305	12	90516231	10T-5305-29-421b.08-20	10x19 (3/4)	6x19 (3/4)	19x19 (3/4)	–	–	–	2	83.9	184.8
305	12	90516231	10T-5305-29-421b.08-20	10x19 (3/4)	6x19 (3/4)	19x19 (3/4)	–	–	–	2	83.9	184.8
Foot valve		90515792	9114									
Assembly tool		90516137	9142									