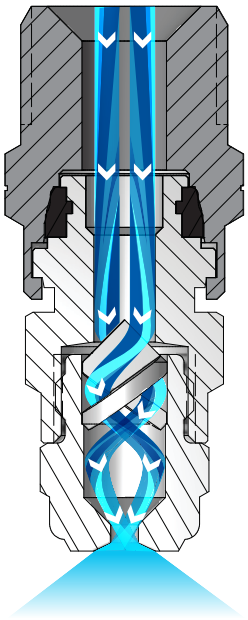
OVERVIEW: QUICK FULLJET AND PROMAX QUICK FULLJET

- Reduce maintenance time – bodies remain on pipe/header; quick quarter-turn removes/installs spray tips with automatic alignment
- Save on nozzle replacement costs – bodies can be reused, only spray tips are replaced
- Spray angles: Standard – 43° to 91°, Narrow – 15° or 30°, Wide – 102° to 120°
- Uniform spray distribution from .10 to 19.4 gpm (.38 to 72 lpm)
- Operating pressures up to 300 psi (20 bar)
- Choice of metal or ProMax materials. ProMax features:
  - ProMax material, a special grade of polypropylene, resists build-up and chemical attack; for use up to 150 psi (10 bar)
  - Internal O-ring provides a positive seal between the body and tip; seal remains attached to tip eliminating accidental loss
  - Optional external O-ring protects nozzle from contaminants
  - Tips are color-coded for easy flow rate identification



Quick FullJet and ProMax Quick FullJet Nozzles

The liquid enters the nozzle and proceeds through the vane. The vane causes the liquid to swirl. The design of the nozzle ensures the liquid continues to swirl as it enters the orifice. The liquid breaks up as it exits the nozzle orifice forming a well-defined cone pattern. The drops are uniform in size and distributed equally throughout the spray pattern.

QUICK FULLJET OPTIONS

QGA Spray Tip + QJA Body
1/8" to 1/2" female conn.
Removable cap and vane

QJLA Body
3/8" to 1/2" female conn.

QJJA Body
1/8" to 1/2" male conn.

QJJLA Body
3/8" to 1/2" male conn.

QLGA Spray Tip
Removable cap and vane/ Large conn.
Use with QJLA and QJJLA bodies

QHA Spray Tip
Non-removable vane
Use with QJA and QJJA bodies

QLHA Spray Tip
Non-removable vane/ Large conn.
Use with QJLA and QJJLA bodies

QGA-15 Spray Tip
Removable cap and vane
Use with QJA and QJJA bodies

QLGA-15 Spray Tip
Removable cap and vane/ Large conn.
Use with QJLA and QJJLA bodies

QGA-30 Spray Tip
Removable cap and vane
Use with QJA and QJJA bodies

QLGA-30 Spray Tip
Removable cap and vane/ Large conn.
Use with QJLA and QJJLA bodies

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
QJA and QJLA bodies	F	1/8 to 1/2	Brass, 303 stainless steel (SS)	–	B19
QJJA and QJJLA bodies	M	1/8 to 1/2		–	
QGA, QLGA, QHA and QLHA spray tips	NA	NA		B17	
QPPA body	M	1/4 to 3/8	ProMax	–	
QPHA spray tips	NA	NA		B17	
QGA-W, QLGA-W, QHA-W and QLHA-W spray tips	NA	NA	Brass, 303 stainless steel (SS)	B18	
QPHA-W spray tips	NA	NA	ProMax		
QGA-15, QLGA-15, QGA-30 and QLGA-30 spray tips	NA	NA	Brass, 303 stainless steel (SS)		

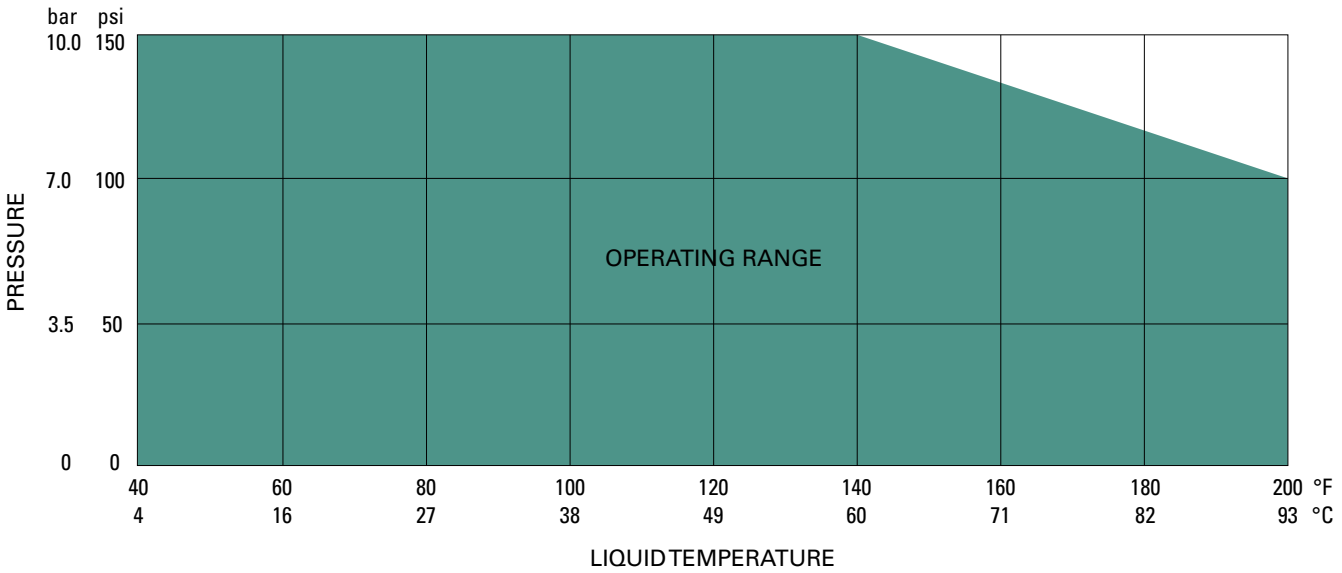
F = female thread; M = male thread. NA = not applicable. There is no material code for brass. Leave material code blank when ordering. For ProMax, the material code is built into part number. Other materials available upon request.

Brass Quick FullJet nozzles have Buna-N seal. Stainless steel FullJet nozzles have a Viton® seal.

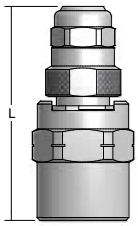
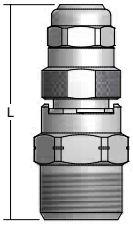
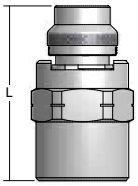
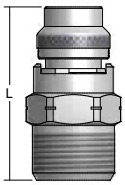
For more dimensions and sizes, contact your sales engineer.

PROMAX QUICKJET NOZZLE MAXIMUM PRESSURES AT VARIOUS TEMPERATURES

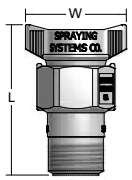
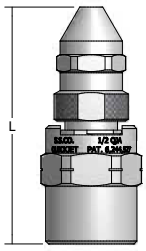
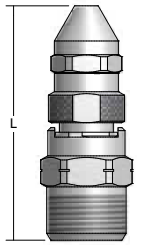
The recommended maximum operating pressure for ProMax QuickJet nozzles varies based on temperature. As temperature increases, the recommended operating pressure decreases. Do not use outside of operating range.



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in)	L (in.)	Hex. (in.)	W (Width) (in.)	Net Weight (oz.)
	**QJA (F) + QGA**	1/8, 1/4, 3/8, 1/2	2.352	1	–	4.2
	QJA (F) + QGA-W	1/8, 1/4, 3/8, 1/2	2.662	1	–	4.3
	QJLA (F) + QLGA	3/8, 1/2	3.078	1-1/8	–	8.7
	QJLA (F) + QLGA-W	3/8, 1/2	3.265	1-1/8	–	9.3
	**QJJA (M) + QGA**	1/8, 1/4, 3/8, 1/2	2.250	7/8	–	3.8
	QJJA (M) + QGA-W	1/8, 1/4, 3/8, 1/2	2.565	7/8	–	4.2
	QJJLA (M) + QLGA	3/8, 1/2	3.115	1-1/8	–	8.2
	QJJLA (M) + QLGA-W	3/8, 1/2	3.290	1-1/8	–	8.9
	**QJA (F) + QHA**	1/8, 1/4, 3/8, 1/2	1.980	1	–	3.8
	QJA (F) + QHA-W	1/8, 1/4, 3/8, 1/2	1.895	1	–	3.5
	QJLA (F) + QLHA	3/8, 1/2	2.368	1-1/8	–	5.9
	QJLA (F) + QLHA-W	3/8, 1/2	2.140	1-1/8	–	5
	**QJJA (M) + QHA**	1/8, 1/4, 3/8, 1/2	1.773	7/8	–	3.2
	QJJA (M) + QHA-W	1/8, 1/4, 3/8, 1/2	1.802	7/8	–	3.5
	QJJLA (M) + QLHA	3/8, 1/2	2.375	1-1/8	–	5.4
	QJJLA (M) + QLHA-W	3/8, 1/2	2.171	1-1/8	–	5

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in)	L (in.)	Hex. (in.)	W (Width) (in.)	Net Weight (oz.)
	**QPPA (M) + QPHA or QPHA-W**	1/8, 1/4, 3/8, 1/2	1.899	7/8	1.250	0.5
	**QJA (F) + QGA-15 or QGA-30**	1/8, 1/4, 3/8, 1/2	2.736	1	–	5.5
	QJLA (F) + QLGA-15 or QLGA-30	3/8, 1/2	3.425	1-1/8	–	9.7
	**QJJA (M) + QGA-15 or QGA-30**	1/8, 1/4, 3/8, 1/2	2.635	7/8	–	4.6
	QJJLA (M) + QLGA-15 or QLGA-30	3/8, 1/2	3.465	1-1/8	–	9.2

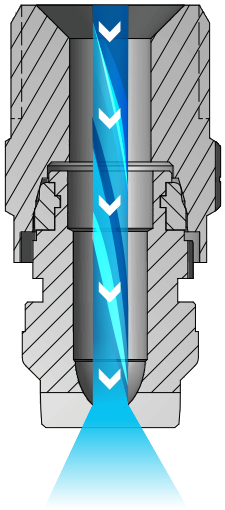
Based on the largest/heaviest version of each type.

BODY TYPES

Inlet Conn. (in.)	QuickJet and ProMax QuickJet Bodies				
	Conn. F		Conn. M		
	QJA	QJLA	QJJA	QJJLA	QPPA
1/8	●		●		●
1/4	●		●		●
3/8	●	●	●	●	●
1/2	●	●	●	●	●

OVERVIEW: QUICK VEEJET AND PROMAX QUICK VEEJET

- Ideal for high-maintenance operations – bodies remain on pipe/header; quick quarter-turn removes/installs spray tips in seconds
- Automatic alignment feature saves time
- Miniature versions are ideal when smaller physical size and lower weight are important
- Flat fan type, tapered edge spray pattern
- Spray angles from 0° to 110°
- Uniform spray distribution with flow rates from .035 to 68 gpm (.14 to 255 lpm)
- Operating pressures up to 300 psi (20 bar)
- Choice of metal or ProMax. ProMax features:
  - ProMax material, a special grade of polypropylene, resists build-up and chemical attack; for use up to 150 psi (10 bar)
  - Internal O-ring provides a positive seal between the body and tip; seal remains attached to tip eliminating accidental loss
  - Optional external O-ring protects nozzle from contaminants
  - Tips are color-coded for easy flow rate identification



Quick VeeJet and ProMax Quick VeeJet Nozzles
As the liquid exits through the sharp V shape cut of the orifice, it forms into a flat spray pattern. The distribution is tapered from the center of the spray.

QUICK VEEJET AND MINIATURE QUICK VEEJET OPTIONS

S

QLUA Spray Tip + QJJLA Body
3/8" to 1/2" male conn.

QJLA Body
3/8" to 1/2" female conn.

QJA Body
1/8" to 1/2" female conn.

QJJA Body
1/8" to 1/2" male conn.

QJJS Body – Miniature version
1/8" to 1/4" male conn.

S

QUA Spray Tip
Flow rates of 1 to 8 gpm at 40 psi
(3.9 to 32 lpm at 2.8 bar)
Use with QJA or QJJA bodies

S

QVVA Spray Tip
Flow rates below 1 gpm at 40 psi
(3.9 lpm at 2.8 bar)
Use with QJA or QJJA bodies

S

QSVV Spray Tip – Miniature version
Flow rates below 1 gpm at 40 psi
(3.9 lpm at 2.8 bar)
Use with QJJS body

ORDERING INFORMATION

METAL QUICK VEEJET

NOZZLE BODY — SPRAY TIP

Inlet Conn.	Body Type	–	Material Code	+	Tip Type	–	Material Code	Spray Angle	Capacity Size

Example

1/4	QJJA	–	SS	+	QVVA	–	SS	110	10

BSPT connections require the addition of a "B" prior to the inlet connection.

PROMAX QUICK VEEJET

NOZZLE BODY — SPRAY TIP

Inlet Conn.	Body Type	+	Tip Type	Spray Angle	Capacity Size

Example

1/4	QPPM	+	QMVV	50	02

Options for miniature ProMax Quick VeeJet nozzles:
1/8" conn.: Kynar body strainer: CP39212-1-KY
1/4" conn.: Kynar body strainer: CP39212-2-KY
Kynar tip strainer: CP45095
External O-ring: CP7717-2/13-VI
Optional external O-ring for standard ProMax Quick VeeJet nozzle: CP7717-2/17-VI

BSPT connections require the addition of a "B" prior to the inlet connection.

QUICK REFERENCE GUIDE

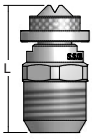
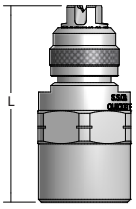
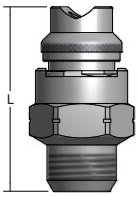
Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
QJJS body	M	1/8 to 1/4	Brass, 303 stainless steel (SS)	–	C23
QSVV spray tip	NA	NA		C17–C22	
QJA and QJLA bodies	F	1/8 to 1/2		–	
QJJA and QJJLA bodies	M	1/8 to 1/2		–	
QLUA, QUA and QVVA spray tips	NA	NA		C17–C22	
QPPM body	M	1/8 to 1/4	ProMax	–	
QMVV spray tips	NA	NA		C17–C22	
QPPA body	M	1/8 to 1/2		–	
QPTA spray tips	NA	NA		C17–C22	

F = female thread; M = male thread; NA = not applicable. There is no material code for brass. Leave material code blank when ordering. For ProMax, the material code is built into part number. Other materials available upon request.

For more dimensions and sizes, contact your sales engineer.

See page B16 for maximum operating pressures for ProMax QuickJet nozzles at various temperatures.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	W (Width) (in.)	Net Weight (oz.)
	**QJJS (M) + QSVV**	1/8, 1/4	1.094	9/16	–	1.0
	**QJA (F) + QVVA**	1/8, 1/4, 3/8, 1/2	2.156	1	–	2.0
	QJJA (M) + QVVA	1/8, 1/4, 3/8, 1/2	2.063	7/8	–	2.8
	**QJA (F) + QUA**	1/8, 1/4, 3/8, 1/2	2.000	1	–	3.5
	QJJA (M) + QUA	1/8, 1/4, 3/8, 1/2	1.906	7/8	–	3.7
	QJLA (F) + QLUA	3/8, 1/2	2.313	1-1/8	–	4.8
	QJJLA (M) + QLUA	3/8, 1/2	2.313	1-1/8	–	4.8

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	W (Width) (in.)	Net Weight (oz.)
	**QPPM (M) + QMVV**	1/8, 1/4	1.188	5/8	0.687	0.1
	**QPPA (M) + QPTA**	1/8, 1/4, 3/8, 1/2	1.750	7/8	1.250	0.4

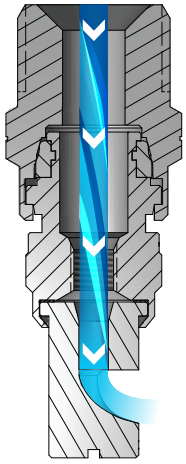
Based on the largest/heaviest version of each type.

BODY TYPES

Inlet Conn. (in.)	Quick VeeJet and ProMax Quick VeeJet Bodies						
	Conn. F		Conn. M				
	QJA	QJLA	QJJS	QJJA	QJJLA	QPPM	QPPA
1/8	●		●	●		●	●
1/4	●		●	●		●	●
3/8	●	●		●	●		●
1/2	●	●		●	●		●

OVERVIEW: QUICK FLOODJET

- Ideal for high-maintenance operations – bodies remain on pipe/header; quick quarter-turn removes/installs spray tips in seconds
- Automatic alignment feature saves time
- Miniature versions are ideal when smaller physical size and lower weight are required
- Wide angle, deflected type flat fan spray pattern
- Spray angles from 73° to 153°
- Uniform spray distribution with flow rates from .01 to 14.7 gpm (.037 to 55 lpm)
- Operating pressures up to 60 psi (4 bar)



Quick FloodJet Nozzles
As liquid passes through the nozzle, it hits the deflector surface and spreads out to form a flat spray pattern. The distribution is even from the center of the spray. The deflector surface enables the formation of very wide spray angles compared to other flat spray nozzles.

QUICK FLOODJET OPTIONS

W

QTKA Spray Tip + QJA Body
1/8" to 1/2" female conn.
Use with QJA or QJJA body

QJJA Body
1/8" to 1/2" male conn.

QJJS Body
Miniature version
1/8" to 1/4" male conn.

W

QSTK Spray Tip
Miniature version
Flow rates below 1 gpm at 40 psi (3.9 lpm at 2.8 bar)
Use with seal and QJJS body

ORDERING INFORMATION

QUICK FLOODJET

NOZZLE BODY				SPRAY TIP			
Inlet Conn.	Body Type	– Material Code	+	Tip Type	– Material Code	Capacity Size

Example: 3/8 QJA – SS + QTKA – SS 1.5

BSPT connections require the addition of a "B" prior to the inlet connection.

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
K nozzle	M	1/8 to 1	Brass, 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	C43–C44	C46
TEK nozzle	M	1/8 to 1/4	Brass, 303 stainless steel (SS)	C44	
QJA body	F	1/8 to 1/2		–	
QJJA body	M	1/8 to 1/2		–	
QTKA spray tip	NA	NA		C45	
QJJS body	M	1/8 or 1/4		–	
QSTK spray tip	NA	NA		C45	
T body	F	1/8 to 1/2		–	
TT body	M	1/8 to 1/2		–	
TK spray tip	NA	NA		C45–C46	

F = female thread; M = male thread; NA = not applicable. There is no material code for brass. Leave material code blank when ordering. Other materials available upon request.
For more dimensions and sizes, contact your sales engineer.

W PERFORMANCE DATA: WIDE ANGLE SPRAY

Nozzle Type	Inlet Conn. (in.)						Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)							Spray Angle (°)		
K	1/8	1/4	3/8	1/2	3/4	1			3 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	7 psi	20 psi	60 psi
●	●						.25	.017	–	–	–	.04	.04	.05	.06	–	83	117
●	●						.50	.023	–	–	–	.07	.09	.10	.12	–	89	122
●	●						.75	.029	–	–	.075	.11	.13	.15	.18	–	106	125
●	●						1	.033	–	–	.10	.14	.17	.20	.24	–	103	128
●	●						1.5	.040	–	.13	.15	.21	.26	.30	.37	73	103	125
●	●	●					2	.047	–	.17	.20	.28	.35	.40	.49	83	113	129
●	●	●					2.5	.052	–	.21	.25	.35	.43	.50	.61	98	122	133
●	●	●					3	.057	–	.25	.30	.42	.52	.60	.73	86	112	126
●	●						4	.066	–	.33	.40	.57	.69	.80	.98	97	123	132
●	●	●					5	.074	.27	.42	.50	.71	.87	1.0	1.2	114	128	142
●	●	●					7.5	.091	.41	.63	.75	1.1	1.3	1.5	1.8	101	119	134
●	●	●					10	.105	.55	.84	1.0	1.4	1.7	2.0	2.4	115	133	145
●	●	●					12	.115	.66	1.0	1.2	1.7	2.1	2.4	2.9	128	139	153
●	●	●					15	.128	.82	1.3	1.5	2.1	2.6	3.0	3.7	98	113	123
●	●	●					18	.140	.99	1.5	1.8	2.5	3.1	3.6	4.4	106	120	131
●	●	●					20	.148	1.1	1.7	2.0	2.8	3.5	4.0	4.9	110	122	133

Highlighted column shows the rated pressure.

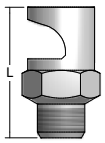
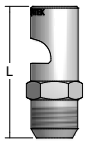
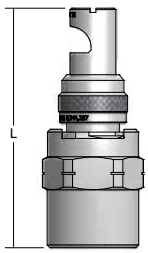
W PERFORMANCE DATA: WIDE ANGLE SPRAY

Inlet Conn. (in.)	UniJet® FloodJet Tip Type	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)							Spray Angle (°)		
	TK			3 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	7 psi	20 psi	60 psi
1/4	●	7.5	.091	.41	.63	.75	1.1	1.3	1.5	1.8	101	119	134
	●	10	.105	.55	.84	1.0	1.4	1.7	2.0	2.4	115	133	145
	●	12	.115	.66	1.0	1.2	1.7	2.1	2.4	2.9	128	139	153
	●	15	.128	.82	1.3	1.5	2.1	2.6	3.0	3.7	98	113	123
	●	18	.140	.99	1.5	1.8	2.5	3.1	3.6	4.4	106	120	131
	●	20	.148	1.1	1.7	2.0	2.8	3.5	4.0	4.9	110	122	133
	●	24	.162	1.3	2.0	2.4	3.4	4.2	4.8	5.9	115	131	144
	●	30	.181	1.6	2.5	3.0	4.2	5.2	6.0	7.3	100	110	121
	●	40	.209	2.2	3.3	4.0	5.7	6.9	8.0	9.8	111	126	136
	●	50	.234	2.7	4.2	5.0	7.1	8.7	10.0	12.2	117	131	140

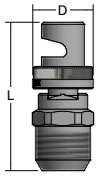
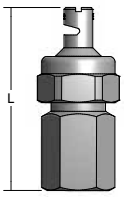
Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	D (Dia.) (in.)	Net Weight (oz.)
	**K (M)**	1/8	1.281	7/16	–	0.5
		1/4	1.343	9/16	–	1
		3/8	1.750	11/16	–	2
		1/2	2.000	7/8	–	4
		3/4	2.563	1-1/2	–	14
		1	3.625	1-7/8	–	32
	**TEK (M)**	1/8	1.125	7/16	–	0.6
		1/4	1.520	9/16	–	1.5
	**QJA (F) + QTKA**	1/8, 1/4, 3/8, 1/2	2.531	1	–	5
	QJJA (M) + QTKA	1/8, 1/4, 3/8, 1/2	2.438	7/8	–	4.5

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	D (Dia.) (in.)	Net Weight (oz.)
	**QJJS (M) + QSTK**	1/8, 1/4, 3/8, 1/2	1.469	9/16	0.594	1.5
	**T (F) + TK**	1/4	2.000	13/16	–	2.5
	TT (M) + TK	1/4	2.000	13/16	–	2.3

Based on the largest/heaviest version of each type.