

Compatibility Tables

40A-100A (Except R50A / NR50A / FR50A)

Die-head Table

	Compatibility	(Old model)
S40A		(N40A)
FP50A		(N50A, P50A, NP50A)
NP80A		(N80A, S80A)
N100A		

Colour shows compatibility with various machines.

Thread Type	Die-head Type	Capacity	Code No.	Plate	Width
BSPT	Manual	¼" - ¾"	290000 *1	B238	23 mm
		½" - 1½"	290820 *2	L290	27 mm
			295633 *3	G891	27 mm
		½" - 2"	295649 **32	2904	27 mm
			295643 *5	L291	27 mm
			295652 *6	G892	27 mm
		1" - 2"	290020	L292	27 mm
		2½" - 3"	290030 **38	L293	27 mm
			295660 *4	L181	27 mm
	Uni-Auto	½" - 1½"	292820	G830	27 mm
		½" - 2"	292810 *31	N731	27 mm
	NV-Auto	½" - 2"	292814 *40	NR56	27 mm
	Self-Open	½" - ¾"	292850 *20	7747	27 mm
		1" - 1½"	29A870	G831	27 mm
		1" - 2"	292020 *21	L189	38 mm
		2½" - 3"	292030 **33	7744	38 mm
	Self-Profiling	2½" - 3"	29A901	7744	27 mm SP
	Profiling	2½" - 4"	293040 **34	J079	20 mm
NPT	Manual	¼" - ¾"	290000 *1	B238	23 mm
		¼" - 1½"	295630	9203	27 mm
		¼" - 2"	295655	N740	27 mm
		½" - 1½"	295633 *3	G891	27 mm
		½" - 2"	295652 *6	G892	27 mm
			295643 *5	L291	27 mm
		2½" - 3"	295660 *4	L181	27 mm
	Uni-Auto	½" - 2"	292812 **36	N731	27 mm
			292810 *31	N731	27 mm
	NV-Auto	½" - 2"	292816 **41	NR56	27 mm
	Self-Open	½" - ¾"	292850 *20	7747	27 mm
		1" - 2"	292020 *21	L189	38 mm
	Profiling	2½" - 4"	293050 **37	J102	20 mm

Compatibility Tables

Thread Type	Die-head Type	Capacity	Code No.	Plate	Width
NPSM	Manual	½" - 2"	295656 -	L182	27 mm
BSW	Manual	W ⅝" - ⅞"	290000 *1	B238	23 mm
		W1" - 1¼"	290820 *2	L290	27 mm
			295643 *5	L291	27 mm
UNC	Manual	⅝" - 1½"	29562U	G841	27 mm
		⅝" - 2"	29001B	9204	27 mm
Metric	Manual	M8 - 48	29082A	G842	27 mm
		M8 - 52	29002A	2903	27 mm
		M20 - 32 P1.5	29003A	L281	27 mm
BSPP	Manual	G½" - 2"	295652 *6	G892	27 mm
		G2½" - 3"	295660 *4	L181	27 mm
	Uni-Auto	G½" - 2"	292810 *31	N731	27 mm
PF	Manual	PF16 - 42	290823 *10	G843	27 mm
		PF16 - 54	290023 *11	G848	27 mm
		PF70 - 82	290033 *12	3330	27 mm
		PF92 - 104	293041(discontinued)	J605	38 mm
Conduit	Manual	C15 - 39	290823 *10	G843	27 mm
		C15 - 51	290023 *11	G848	27 mm
		C63 - 75	290033 *12	3330	27 mm
Grooving/ Bevelling	Handle	¾" - 2"	292026	L187	20 mm
		2½" - 3"	292036	7744	20 mm
		2½" - 4"	293047	J088/J086	20 mm

Note: Where the number is the same, * indicates it can be used for different types of thread.

Die-head

**32: Standard Equipment with FP50A, NP80A BSPT version
 *31: Standard Equipment with FP50AV, NP80AV, NP80AVⅢ, N100A BSPT version
 **38: Standard Equipment with NP80A, NP80AV BSPT version
 **33: Standard Equipment with NP80AVⅢ BSPT version
 **34: Standard Equipment with N100A BSPT version
 *6: Standard Equipment with NP80A NPT version

**36: Standard Equipment with NP80AV, N100A NPT version
 *4: Standard Equipment with NP80AV NPT version
 **37: Standard Equipment with N100A NPT version
 **40: Standard Equipment with FP50AV, BSPT version
 **41: Standard Equipment with FP50AV, NPT version

Compatibility Tables

Compatibility

(Old model)

S40A					(N40A)
FP50A					(N50A, P50A, NP50A)
NP80A					(N80A, S80A)
N100A					

Colour shows compatibility
with various machines.

40A-100A (Except R50A / FR50A)

Dies Table

ISO 7-1 (JIS B 0203) <R> British Standard Pipe thread: Tapered

BSPT	Tpi	Angle	Width	Alloy	HSS	"SUS"	Die Head
1/4" - 3/8"	19	55	23 mm	160003	166003	-	290000
1/2" - 3/4"	14	55	27 mm	161907 *1	166007	166351 *5	290820 295633
							292820 292850
							295643 295649
							295652
1" - 1 1/2"	11	55	27 mm	161910	166010	166352 *5	292810 292814
							290820 295633
							292820 29A870
1 1/2" - 2"	11	55	27 mm	161930	166030	166353 *5	295643 290020
							295649 295652
1" - 2"	11	55	27 mm	16K030 *1	16K230	166357 *5	292810 292814
1" - 2"	11	55	38 mm	16B430	16E030	-	292020
2 1/2" - 3"	11	55	27 mm	161950 *2	166050	166354 *5	290030 295660
2 1/2" - 3"	11	55	38 mm	16B450 *3	16E050	-	292030
2 1/2" - 3"	11	55	27 mm SP	16A501	16A511	-	29A901
2 1/2" - 4"	11	55	20 mm	162460 *4	16C060	-	293040



Dies

*1: Standard Equipment with FP50A series, NP50A series, NP80A series, N100A BSPT version

*2: Standard Equipment with NP80A, NP80AV BSPT version

*3: Standard Equipment with NP80AVIII BSPT version

*4: Standard Equipment with N100A BSPT version

*5: Available Only in Selected Countries

40A-100A (Except R50A / FR50A)

ANSI / ASME B 1.20.1 (American) National Pipe thread: Tapered

NPT	Tpi	Angle	Width	Alloy	HSS	Die Head	
1/4" - 3/8"	18	60	23 mm	160303	166303	290000	
1/4" - 3/8"	18	60	27 mm	161303	-	295630	295655
1/2" - 3/4"	14	60	27 mm	161307 *6	166307	295630	295633
						292850	
						295655	295652
						295643	292812
1" - 1 1/2"	11.5	60	27 mm	161310	166310	292810	292816
						295630	295633
						29A870	295643
1 1/2" - 2"	11.5	60	27 mm	161330	166330	295643	
1" - 2"	11.5	60	27 mm	16K330 *6	16K430	295655	295652
						292810	
						292812	292814
1" - 2"	11.5	60	38 mm	16B030	16E330	292020	
2 1/2" - 3"	8	60	27 mm	161350 *7	166350	295660	
2 1/2" - 4"	8	60	20 mm	162360 *8	16C360	293050	



Dies

*6: Standard Equipment with FP50A series, NP50A series, NP80A series, N100A NPT version

*7: Standard Equipment with NP80A, NP80AV NPT version

*8: Standard Equipment with N100A NPT version

Compatibility Tables

40A-100A (Except R50A / NR50A / FR50A)

ISO 228-1 (JIS B 0202) <G> British Standard Pipe thread: Parallel

JIS C 8305 appendix <CTG>, former JIS B 0204

Conduit, thick steel pipe thread (parallel) for electrical wiring

BSPP	Tpi	Angle	Width	Alloy	Die Head	
G½ - ¾	14	55	27 mm	162083	295652	292810
G1 - 2	11	55	27 mm	16K040	295652	292810
G2½ - 3	11	55	27 mm	162084	295660	

PF	Tpi	Angle	Width	Alloy	Die Head	
PF16 - 22	14	55	27 mm	161107	290823	290023
PF28 - 36	11	55	27 mm	161110	290823	290023
PF42 - 54	11	55	27 mm	161130	290823*	290023
PF70 - 82	11	55	27 mm	161150	290033	
PF92 - 104	11	55	38 mm	163160	293041 (discontinued)	

*DH 290823 can set PF42 only.

JIS C 8305 appendix <CTC>, former JIS B 0204

Conduit, thin steel pipe thread (parallel) for electrical wiring

Conduit	Tpi	Angle	Width	Alloy	Die Head	
C19 - 25	16	80	27 mm	161209	290823	290023
C31 - 51	16	80	27 mm	161230	290823	290023
C63 - 75	16	80	27 mm	161250	290033	

ANSI/ASME B 1.20.1 (American) National Pipe thread: Straight Mechanical

NPSM	Tpi	Angle	Width	Alloy	Die Head	
¼" - ¾"	18	60	23 mm	161360	(290000)	
½" - ¾"	14	60	27 mm	161362	295656	
1" - 1¼"	11.5	60	27 mm	161364	295656	
1½" - 2"	11.5	60	27 mm	161366	295656	
2½" - 4"	8	60	20 mm	162360	293050**	

**Optional profiling board J109 is required.

Compatibility

(Old model)

S40A					(N40A)
FP50A					(N50A, P50A, NP50A)
NP80A					(N80A, S80A)
N100A					

Colour shows compatibility with various machines.

BSPP (Alloy)

27mm



PF (Alloy)

27mm



38mm



Conduit (Alloy)

27mm



NPSM (Alloy)

27mm



40A-100A (Except R50A / NR50A / FR50A)

ISO 68-1/261 (JIS B 0205) <M> Metric thread for bolt: parallel

Metric	Pitch	Angle	Width	Alloy	HSS	Die Head
M8	1.25	60	27 mm	167702	167722	29082A 29002A
M10	1.5	60	27 mm	167703	167723	29082A 29002A
M12	1.75	60	27 mm	167705	167725	29082A 29002A
M14-16	2.0	60	27 mm	167706	167726	29082A 29002A
M18-22	2.5	60	27 mm	167707	167727	29082A 29002A
M24-27	3.0	60	27 mm	167709	167729	29082A 29002A
M30-33	3.5	60	27 mm	16770A	16772A	29082A 29002A
M36-39	4.0	60	27 mm	16770B	16772B	29082A 29002A
M42-45	4.5	60	27 mm	16770C	16772C	29082A 29002A
M48-52	5.0	60	27 mm	16770D	16772D	29002A
M20P1.5	1.5	60	27 mm	16770E	-	29003A
M25P1.5	1.5	60	27 mm	16770F	-	29003A
M32P1.5	1.5	60	27 mm	16770G	-	29003A

BS84 British Standard Whitworth for bolt: parallel

BSW	Tpi	Angle	Width	Alloy	HSS	Die Head
W $\frac{5}{16}$ "	18	55	23 mm	160502	160521	290000
W $\frac{3}{8}$ "	16	55	23 mm	160503	160522	290000
W $\frac{1}{2}$ "	14	55	23 mm	160504	160530	290000
W $\frac{5}{8}$ "	12	55	23 mm	160505	160523	290000
W $\frac{3}{4}$ "	11	55	23 mm	160506	160524	290000
W $\frac{7}{8}$ "	10	55	23 mm	160507	160525	290000
W $\frac{15}{16}$ "	9	55	23 mm	160508	160526	290000
W1"	8	55	27 mm	160509	160527	290820 295643
W1 $\frac{1}{4}$ "	7	55	27 mm	160510	160528	290820 295643

ISO 263 (ANSI B 1.1, JIS B 0206)

<UNC> Unified National Coarse thread for bolt: parallel

UNC	Tpi	Angle	Width	Alloy	Die Head
$\frac{5}{16}$ "	18	60	27 mm	167502	29562U 29001B
$\frac{3}{8}$ "	16	60	27 mm	167503	29562U 29001B
$\frac{1}{2}$ "	14	60	27 mm	167504	29562U 29001B
$\frac{5}{8}$ "	13	60	27 mm	167505	29562U 29001B
$\frac{3}{4}$ "	11	60	27 mm	167506	29562U 29001B
$\frac{7}{8}$ "	10	60	27 mm	167507	29562U 29001B
1"	9	60	27 mm	167508	29562U 29001B
1"	8	60	27 mm	167509	29562U 29001B
1 $\frac{1}{8}$ - 1 $\frac{1}{4}$ "	7	60	27 mm	167510	29562U 29001B
1 $\frac{3}{8}$ - 1 $\frac{1}{2}$ "*	6	60	27 mm	167520	29562U 29001B
2"	4.5	60	27 mm	167530	29001B

*No size indication on DH.

Metric/ BSW / UNC
(Alloy / HSS)



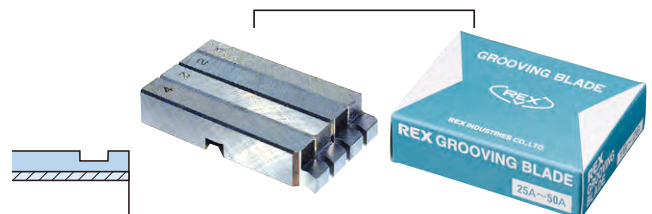
Bevelling (Alloy)



Bevelling	Angle	Width	Alloy	Die Head
$\frac{3}{4}$ "	-	30	16H707	292026
$\frac{3}{4}$ "	-	37.5	16H807	292026
1" - 2"	-	30	16H730	292026
1" - 2"	-	37.5	16H830	292026
2 $\frac{1}{2}$ " - 3"	-	30	16H750	292036
2 $\frac{1}{2}$ " - 3"	-	37.5	16H850	292036
2 $\frac{1}{2}$ " - 4"	-	30	162760	293047
2 $\frac{1}{2}$ " - 4"	-	37.5	162860	293047
2 $\frac{1}{2}$ " - 4"	-	45	162862*	293047

* discontinued

Grooving (Alloy)



Grooving	Gv.W.	Width	Alloy	Die Head
$\frac{3}{4}$ "	8	20 mm	16G607	292026
1" - 2"	8	20 mm	16G630	292026
2 $\frac{1}{2}$ " - 3"	8	20 mm	16G650	292036
2 $\frac{1}{2}$ " - 3 $\frac{1}{2}$ "	9.5	20 mm	162650	293047
4"	9.5	20 mm	162660	293047

Compatibility Tables

F25A / NS25A / N25A

Die-head Table

*1: Standard Equipment with F25A C version

*3: Standard Equipment with F25A BSPT version

**6: Standard Equipment with F25AⅢ BSPT version

Thread Type	Die Head Type	Capacity	Code No.	Plate	Width
BSPT	Manual	¼" - 1"	295250 *1	KY22	27 mm
	Manual	¼" - 1"	295254 *3	KY30	27 mm
	Self-Open	¼" - ¾"	290129 *5	MY63	27 mm
	Self-Open	½" - 1"	290130 **6	MY81	27 mm
NPT	Manual	¼" - 1"	295252 *2	KY26	27 mm
	Manual	¼" - 1"	295250 *1	KY22	27 mm
	Self-Open	¼" - ¾"	290129 *5	MY63	27 mm
	Self-Open	½" - 1"	290128	MY81	27 mm
NPSM	Manual	½" - 1"	295252 *2	KY26	27 mm
BSW	Manual	W¾" - ¾"	295254 *3	KY30	27 mm
Conduit	Manual	C19 - 39	295250 *1	KY22	27 mm

Note: Where the number is the same, * indicates it can be used for different types of thread.



Self-opening Die Head for F/NS25A



Manual Die Head for F/NS25A

Dies Table

ISO 7-1 (JIS B 0203) <R> British Standard Pipe thread: Tapered

BSPT	Tpi	Angle	Width	Alloy	HSS	Die Head
¼" - ¾"	19	55	27 mm	16P000	160030	295250 295252 295254 290129
½" - ¾"	14	55	27 mm	16P407 *1	166P07 *2	295250 295252 295254 290130
1"	11	55	27 mm	160025 *1	166025 *2	295250 295252 295254 290130

*1: Standard Equipment with F25A, F25AⅢ BSPT version

*2: Standard Equipment with F25AⅢ BSPT/HSS version

ANSI/ASME B 1.20.1 (American) National Pipe thread: Tapered

NPT	Tpi	Angle	Width	Alloy	HSS	Die Head
¼" - ¾"	18	60	27 mm	16P100	166292	295252 295250 290129
½" - ¾"	14	60	27 mm	161305	166294	295252 295250 290128
1"	11.5	60	27 mm	161610	166296	295252 295250 290128

BS84 British Standard Whitworth for bolt: parallel

BSW	Tpi	Angle	Width	Alloy	HSS	Die Head
W¾"	16	55	27 mm	166720	166730	295254
W½"	12	55	27 mm	166721	166731	295254
W¾"	11	55	27 mm	166722	166732	295254
W¾"	10	55	27 mm	166723	166733	295254

JIS C 8305 appendix <CTC>, former JIS B 0204

Conduit, thin steel pipe thread (parallel) for electrical wiring

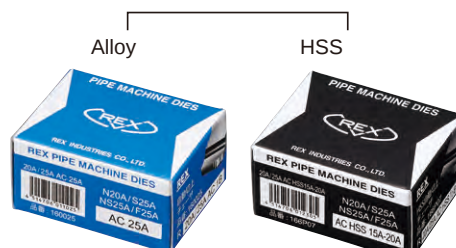
Conduit	Tpi	Angle	Width	Alloy	HSS	Die Head
C19 - 25	16	80	27 mm	161612 *3	-	295250
C31 - 39	16	80	27 mm	161613 *3	-	295250

*3: Standard Equipment with F25A C version

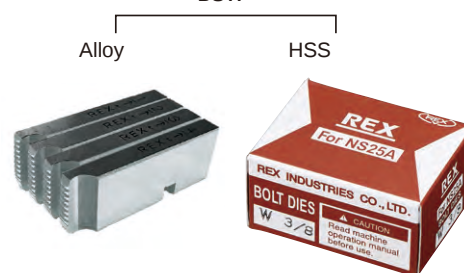
ANSI / ASME B 1.20.1 (American) National Pipe thread: Straight Mechanical

NPSM	Tpi	Angle	Width	Alloy	HSS	Die Head
½" - ¾"	14	60	27 mm	161372	-	295252
1"	11.5	60	27 mm	161374	-	295252

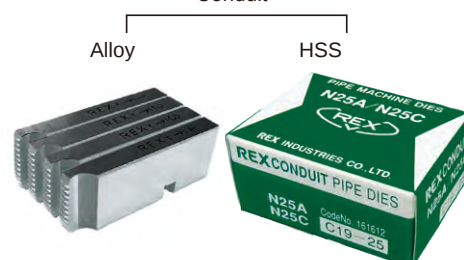
27mm BSPT / NPT



27mm BSW



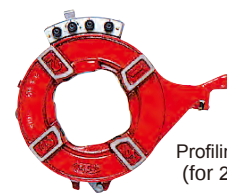
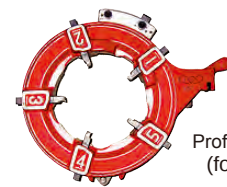
27mm Conduit



150A

Die-head Table

Thread Type	Die Head Type	Capacity	Code No.	Plate	Width
BSPT	Profiling	2½" - 4"	291045 *1	E613/E614	20 mm
	Profiling	5" - 6"	291065 *1	E606/E607	20 mm
NPT	Profiling	2½" - 4"	293055 *2	E616/E617	20 mm
	Profiling	5" - 6"	293057 *2	E609/E610	20 mm
Grooving/ Bevelling	Handle	2½" - 4"	293048	A712	20 mm
	Handle	5" - 6"	293049	E709	20 mm

Profiling Die Head
(for 2½"-4" pipe)Profiling Die Head
(for 5"-6" pipe)

Dies Table

ISO 7-1 (JIS B 0203) <R> British Standard Pipe thread: Tapered

BSPT	Tpi	Angle	Width	Alloy	HSS	Die Head
2½" - 4"	11	55	20 mm	162460 *1	16C060	291045
5" - 6"	11	55	20 mm	162470 *1	16C070	291065

ANSI / ASME B 1.20.1 (American) National Pipe thread: Tapered

NPT	Tpi	Angle	Width	Alloy	HSS	Die Head
2½" - 4"	8	60	20 mm	162360 *2	16C360	293055
5" - 6"	8	60	20 mm	162370 *2	16C370	293057

ANSI / ASME B 1.20.1 (American) National Pipe thread: Straight Mechanical

NPSM	Tpi	Angle	Width	Alloy	HSS	Die Head
2½" - 4"	8	60	20 mm	162360	16C360	293055 *3
5" - 6"	8	60	20 mm	162370	16C370	293057 *3

*1: Standard Equipment with 150A BSPT version

*2: Standard Equipment with 150A NPT version

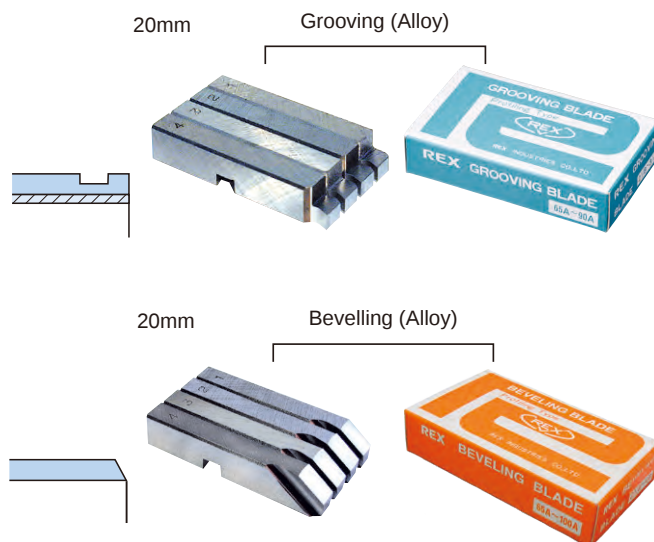
*3: Optional profiling board A129 is required



Grooving	Gv.W.	-	Width	Alloy	HSS	Die Head
2½" - 3½"	9.5	-	20 mm	162650	-	293048
4"	9.5	-	20 mm	162660	-	293048
5" - 6"	9.5	-	20 mm	162670	-	293049

Bevelling	-	Angle	Width	Alloy	HSS	Die Head
2½" - 4"	-	30	20 mm	162760	-	293048
2½" - 4"	-	37.5	20 mm	162860	-	293048
2½" - 4"	-	45	20 mm	162862	-	293048
5" - 6"	-	30	20 mm	162770	-	293049
5" - 6"	-	37.5	20 mm	162870	-	293049
5" - 6"	-	45	20 mm	162872	-	293049

N100A adaptable



Compatibility Tables

Old Model Profiling Dies (50A-II/80A-II/80ADX(Old type)100ADXII)

Dies Table

ISO 7-1 (JIS B 0203) <R> British Standard Pipe thread: Tapered

BSPT	Tpi	Angle	Width	Alloy	HSS	Die Head
½" - ¾"	14	55	20 mm	16A407*	16D007*	297020** / 291020**
1" - 2"	11	55	20 mm	16A430*	16D030*	297020** / 291020**
2½" - 3"	11	55	20 mm	16A450*	16D050*	297030** / -
2½" - 4"	11	55	20 mm	162460	16C060	- / 291045



ANSI / ASME B 1.20.1 (American) National Pipe thread: Tapered

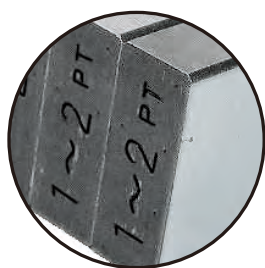
NPT	Tpi	Angle	Width	Alloy	HSS	Die Head
½" - ¾"	14	60	20 mm	162307*	16D307*	297624** / 296624**
1" - 2"	11.5	60	20 mm	162330*	16D330*	297624** / 296624**
2½" - 3"	8	60	20 mm	16A350**	16D350*	PD-NPT** / -
2½" - 4"	8	60	20 mm	162360	16C360	- / 293055

*subject to stock **discontinued



Dies Marking

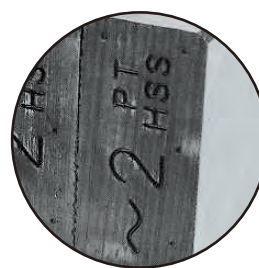
Identify Correct One ; Check the Markings to Ensure



Alloy Dies marking



HSS Dies marking



FR50A / NR50A / R50A (R-type)

Die-head Table

Thread Type	Die Head Type	Capacity	#300	REX	Plate	Width
			eq. DH	Code No		
BSPT	Manual R	½"-2"	811A BSPT	295680	RH03	27 mm
	Uni-Auto R	½"-2"	815A BSPT	290802*	N696	27 mm
	NV-Auto R	½"-2"	815A BSPT	292804	NR86	27 mm
NPT	Manual R	½"-2"	811A NPT	295680	RH03	27 mm
	Uni-Auto R	½"-2"	815A NPT	292800*	N677	27 mm
	NV-Auto R	½"-2"	815A NPT	292802	NR86	27 mm

* discontinued



FR50AV

Dies Table

ISO 7-1 (JIS B0203) <R> British Standard Pipe thread:Tapered

BSPT	Tpi	Angle	Width	#300	REX	#300	REX	Die Head
				RH.Alloy	Alloy	RH.HSS	HSS	
½"-¾"	14	55	27 mm	66665	161353	18980	161357	295680 290802* 292804
1"-2"	11	55	27 mm	66670	161354	18985	161358	295680 290802* 292804

* discontinued



ANSI/ASME B 1.20.1 (American) National Pipe thread:Tapered

NPT	Tpi	Angle	Width	RH.Alloy	Alloy	RH.HSS	HSS	Die Head
½"-¾"	14	60	27 mm	47745	161351	47785	161355	295680 292800* 292802
1"-2"	11.5	60	27 mm	47750	161352	47790	161356	295680 292800* 292802

* discontinued