



**AIR - CONDITIONING SYSTEMS & REFRIGERATION VALVES**

These valves are used for air - conditioning systems and refrigeration. Valves are available in three kinds of materials, i.e., Brass, aluminium and steel.

**• 5V1 Thread Standard Valve Series – Brass or Aluminium**

Parts: C1 - SF or C1-SA Valve Core.



AV122



AV121

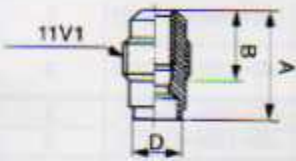


C1-SF

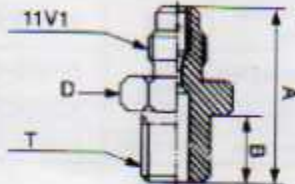


C1-SA

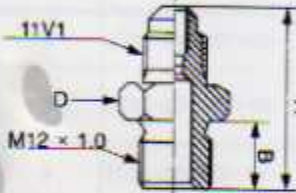
A-1 TYPE



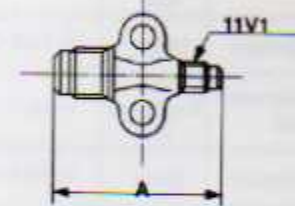
A-2 TYPE



A-3 TYPE



A-4 TYPE



NDC NO.	PACIFIC NO.	A (mm /in)	B(Ref) (mm /in)	D dia. (mm /in)
AV111	A-1 TYPE	17.5/0.69	10.5/0.41	8/0.31
AV112	A-1 TYPE	22/0.87	10.5/0.41	8/0.31

NDC NO.	PACIFIC NO.	A (mm /in)	B(Ref) (mm /in)	D hex. (mm /in)	T
AV121	A-2 TYPE	26/1.02	8/0.31	14/0.55	PFI/8
AV122	A-2 TYPE	26.5/1.04	8/0.31	12/0.47	PFI/8

NDC NO.	PACIFIC NO.	A (mm /in)	B (mm /in)	D dia. (mm /in)
AV131	A-3 TYPE	31/1.22	9/0.35	19/0.75

NDC NO.	PACIFIC NO.	A (mm /in)		
AV141	A-4 TYPE	62/2.44		

**• 6V1/ M6x0.75 Thread Valve Series – Aluminium or Brass**

R134a Resistant



AV211



AV212



AV221



AV222



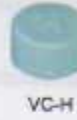
IC3-A



IC3-F



VC-L



VC-H



VC-LB



VC-HB

NDC NO.	REF NO.	A (mm /in)	B (mm /in)	D dia. (mm /in)	d dia. (mm /in)
AV211		30/1.18	22/0.87	8/0.31	13/0.51
AV212		30/1.18	22/0.87	7/0.28	16/0.63

NDC NO.	REF NO.	A (mm /in)	B (mm /in)	D dia. (mm /in)	d dia. (mm /in)
AV221		32/1.26	8/0.31	17/0.67	13/0.51
AV222		32/1.26	8/0.31	17/0.67	16/0.63

\*AV211 & AV221 consists of a IC3 -A core mounted in a S211 or S221 valve stem which is sealed with a VC-L cap.

\*AV212 & AV222 consists of a IC3 -A core mounted in a S212 or S222 valve stem which is sealed with a VC-H cap.

**SPECIAL QUICK COUPLERS – R134a Resistant**



QC201



QC202



### VALVE CORES - For All Types of Tire & Air-Conditioner Valves

#### Standard Valve Cores



NDC NO. (TR NO.)	Feature (Resistant)	Barrel Gasket Color	Operating Pressure Range kg/cm <sup>2</sup> (psi)	Operating Temperature Range °C (°F)	Recommended Tightening Torque kgf.cm
C1-SB C1-SBY	Standard	Black	0~15(0~220)	-40~100(40~212)	3
C1-SR C1-SRY	Heat and Cold	Red	0~15(0~220)	-54~150(-65~302)	3
C1-SF C1-SA	Freon R-134a	White Green	0~35(0~500)	-20~100(-4~212)	3
C1-SG	Gas	White	0~15(0~220)	-40~100(-40~212)	3
C1-LB C1-LBY	Standard	Black	0~15(0~220)	-40~100(40~212)	3
C1-LR C1-LRY	Heat and Cold	Red	0~15(0~220)	-54~150(-65~302)	3
C1-LN C1-LF	Filtrating Net	Red White	0~15(0~220)	-40~100(-40~212)	3
C1-SLO	Low Opening 0.2~1.4	Yellow	0~15(0~220)	-10~100(-10~212)	3
C1-SE	Some-Short	Red or BL	0~35(0~500)	-40~100(-40~212)	3

#### Large Bore Valve Cores



IC1-BL IC1-AL IC1-BYL IC1-B IC1-BY IC1-RL	Italy Type	Black Grey Black Black Black Red	0~15(0~220)	-40~100(-40~212)	3
C2-SB C2-SBY	Standard	Black	0~15(0~220)	-40~100(-40~212)	4
C2-SR C2-SY C2-SRY	Heat and Cold	Red Red/Yellow Red	0~15(0~220)	-54~150(-65~302)	4
C2-LB C2-LBY	Standard	Black	0~15(0~220)	-40~100(-40~212)	4
C2-LR C2-LRY	Heat and Cold	Red	0~15(0~220)	-54~150(-65~302)	4
IC2-M IC2-R	Italy Type	Metal Red	0~15(0~220)	-54~150(-65~302)	4
IC3-F IC3-A	R-134a	Black Green	0~35(0~500)	-40~100(-40~302)	4
EP2 EP3	Germany,Quick Quick,Patentor	Black	0~15(0~220)	-40~100(-40~212)	3
FP1 FP2 FP3	France Type	Red	0~15(0~220)	-40~150(-40~302)	3
IP1 IP2	Italy Type	Black White	0~15(0~220)	-40~150(-40~302)	3

#### Bicycle & Motorcycle Valve Cores



#### Valve Extension Valve Cores — Brass / Stainless



NDC NO.	Length (mm /in)	Description
EXC30/EXC30L	30/1.18	For Metal Valve Extensions Fits Truck & Bus Extensions EXC30 is Short core style EXC30L is Long core style
EXC50/EXC50L	50/1.97	
EXC66/EXC66L	66/2.60	
EXC76/EXC76L	76/3.00	
EXC90/EXC90L	90/3.54	
EXC100/EXC100L	100/3.94	
EXC110/EXC110L	110/4.33	
EXC115/EXC115L	115/4.53	
EXC120/EXC120L	120/4.72	
EXC130/EXC130L	130/5.12	
EXC140/EXC140L	140/5.51	
EXC152/EXC152L	152/5.96	

NDC NO.	Length (mm /in)	Description
EXC146SB/SR	136/5.34	Fits EX146LS / VE534LS Extension
EXC152SB/SR	142/5.60	Fits EX152LS / VE600LS Extension
EXC178SB/SR	168/6.60	Fits EX179LS / VE700LS Extension
EXC197SB/SR	187/7.34	Fits EX197LS / VE734LS Extension
EXC216SB/SR	206/8.12	Fits EX216LS / VE850LS Extension
EXC229SB/SR	219/8.60	Fits EX229LS / VE900LS Extension
EXC254SB/SR	244/9.60	Fits EX254LS / VE1000LS Extension
EXC305SB/SR	295/11.60	Fits EX305LS / VE1200LS Extension
EXC330SB/SR	320/12.60	Fits EX330LS / VE1300LS Extension
EXC356SB/SR	346/13.60	Fits EX350LS / VE1400LS Extension



• Metal Sealing Type Caps

Sample	NDC NO.	TR NO. (REF. NO.)	Part NO. (Finish/plated)				Description (Fits Thread)	Sample	NDC NO.	TR NO. (REF. NO.)	Part NO. (Finish/plated)				Description (Fits Thread)
			Dip	Ni	Cr						Dip	Ni	Cr		
	AT	N-1202	AT	AT1	AT2			ET	PVC16	ET	ET1	ET2		Flattop All-Hex (8V1)	
	ANT	5998	ANT	ANT1	ANT2			FT	VC3S	FT	FT1	FT2		Short Skirt Net Knure (8V1)	
	BT		BT	BT1	BT2			FST	VC3S	FST	FST1	FST2		Short Skirt Str. Knure (8V1)	
	CT	VC2 V9.04.4	CT	CT1	CT2			GT		GT	GT1	GT2		Flattop Half Hex (8V1)	
	CKT	VC2	CKT	CKT1	CKT2			HT		HT	HT1	HT2		Half dome Str. Knure (8V1)	
	DT	VC3	DT	DT1	DT2	DT-E Black		IT	VC5	IT (VC5)	IT1 (VC5Ni)	IT2 (VC5Cr)	Yellow IT-Y (VC5YP)	Flattop 2-Tier Hex (8V1)	
	DST	VC3	DST	DST1	DST2			IMT	VC5M 2525	Seal Gasket With Rubber & metal			Yellow IMT-Y (VC5YM)	Lacquer 2-Tier Hex (8V1)	
	DFT	VC3 7572	DFT	DFT1	DFT2	DFT-E Black		KT	VC4 1759	KT (VC4)	KT1 (VC4Ni)	KT2 (VC4Cr)	KST Str.	Large Bore Screwdriver (8V1)	
	VC12 (N-1121) Double Seal Inflater Ext. (8V1)		VC6 (Dip) VC6Ni (NIP.) Large Bore Screwdriver (12V1)		VC7 (Dip) VC7Ni (NIP.) Large Bore 10/9.5 Hex (12V1)		VC10 (Dip) VC10Ni (NIP.) Large bore Flattop (12V1)		Adapter Converts Large Bore to Standard Valve Mouth (Dip) (12V1)				AD2 (Dip) See AD1 (12V1)		

• Plastic & Plastic Sealing Caps – Black & Color (R–Red, Y–Yellow, B–Blue, G–Green)

							Standard Type S-Sealing Caps (8V1)	Screw-driver (8V1)		Fits TR618. TR618A. TR218A. TR220A. TR621A ~TR623A (12V1)
				Germany Type S-Sealing (8V1)						

• Aluminium Sealing Caps – Color (AL–Nature, R–Red, Y–Yellow, B–Blue, G–Green, P–Purple, BL–Black)




**VALVE SLEEVES**

• **Chrome Brass Sleeves—Straight Type**



NDC NO.	H (mm)	I.D. (mm)	Description
CS12	12~13		Fits TR413 Valve
CS16	16~17		Fits TR414 or TR413 Valve
CS18	18~20	$\phi 10.1 - \phi 10.5$	Fits TR414 or TR414L Valve
CS22	22~24		Fits TR414L or TR418 Valve
CS30	30~32		Fits TR418 or TR423 Valve

• **Chrome Brass All-Sleeve—Loudhailer Type**



NDC NO.	H (mm)	I.D. (mm)	Description
CAS12	12~14		Fits TR412 Valve
CAS13	19~21		Fits TR413 Valve
CAS14	26~28	$\phi 10.4 - \phi 10.6$	Fits TR414 Valve
CAS14L	34~36		Fits TR414L Valve
CAS18	39~41		Fits TR418 Valve
CAS600	20~22	$\phi 8.5 - \phi 8.8$	Fits TR600HP Valve

• **Brass & Plastic Cap-Sleeves**



NDC NO.	H (mm)	I.D. (mm)	Description
CS413	30		Brass Chrome Plated.
CS414	36	$\phi 11.5$	Fits TR 413, TR414, TR418.
CS418	49		
NS413	30		Brass Nickel Plated.
NS414	36	$\phi 11.5$	Fits TR 413, TR414, TR418.
NS418	49		
GS413	30		Brass Gold Plated.
GS414	36	$\phi 11.5$	Fits TR 413, TR414, TR418.
GS418	49		

\*Plastic Cap - Sleeves NDCNO.: PS413, PS414, PS418.

• **Aluminium Color—Sleeves**

\*AL—Nature, R—Red, Y—Yellow, B—Blue, G—Green, P—Purple.

Straight Type



NDC NO.: AS12-AL/R/Y/B/G/P;  
AS16-AL/R/Y/B/G/P;  
AS18-AL/R/Y/B/G/P;  
AS22-AL/R/Y/B/G/P;  
AS30-AL/R/Y/B/G/P.

Loudhailer Type



NDC NO.: AS412-AL/R/Y/B/G/P;  
AS413-AL/R/Y/B/G/P;  
AS414-AL/R/Y/B/G/P;  
AS414L-AL/R/Y/B/G/P;  
AS418-AL/R/Y/B/G/P.



### VALVE GROMMETS

#### • Rubber Grommets – EPDM / SI / NBR

NDC NO. (TR NO.)	OD (mm)	ID (mm)	H (mm)
RG7	22	12	9
RG7711	25.4	17	5
RG22	25.4	17	6.5
RG46	22.5	10	8
RG59	14	7	4
RG V-1	11	5.6	3
RG 7711	15	8.3	9
RG 540	16.8	9.1	3.2
RG15/R	19	10	13
RG39	18	10	8
RG54	17	10	6.5
HRG1	16	7	6.5
HRG2	14	7	6
HRG4	15	8	5.5
RG522	19	10	10.5
RG453	14.5	7.6	8.5



NDC NO. (TR NO.)	OD (mm)	ID (mm)	H (mm)
HG1/R	7.8	3.5	1.8
HG2	16	7	3.5
HG3	14	7	3.5
HG4	15	8	3
HG7	12	7.2	2.5
HG8	12	7	4
HG540	16.5	9.1	2
HG1298	21	15.8	2.5
V9.05.1	24	8	3

### VALVE WASHERS – Brass/Steel(Plated)

NDC NO. (TR NO.)	OD (mm)	Fits Thread	H (mm)
RW11	23	12V1	3.2
RW12(R11)	16-14	8V1	2.5
RW4	30	12V1	3.5
R13	19	10V2	3
R21	18	8V1	3
R31	21	10V2	3
Do8C	31	12V1	3.5
Do9C	24	12V1	2.5
R8(V9.01.4)	20	10V2	2.5
RW8	19	10V2	2.5
RW13	19	10V2	1.5
RW1600	15	8V1	4.5
RWV-5	14	8V1	3
RWV-1	11	6V1	2



#### • O-Ring – EPDM / SI / NBR

NDC NO. (TR NO.)	ETRTO NO.	ID (mm)	C/S (mm)
RG81	-	15.6	1.8
RG80	-	7.6	2.6
RG67	V9.11.6	4.5	1.8
RG66	V9.11.3	6	1.8
RG65	-	7.6	1.8
RG60	V9.11.5	9	1.9
V9.11.1	-	6.4	1.9
V9.11.2	V9.11.2	20.7	2.6
V9.11.4	V9.11.4	15.6	2.6
V9.11.7	V9.11.7	11	2
V9.11.8	V9.11.8	8	1.9

NDC NO. (TR NO.)	OD (mm)	Fits Thread	H (mm)
RW15	15	10V2	1.5
WS1(RW453)	14	8V1	1.2

#### • Bridge washers – Steel(Plated)

NDC NO. (TR NO.)	L (mm)	B (mm)	H (mm)	Fits Thread
B5	48	24	9.5	12V1
B6	54	28.5	9.5	12V1
B7	57	33	9.5	12V1
B8	70	51	6.5	12V1
BW3	58	33	6	18XS16
BW18	70	51	6.5	17V2
D12C	47	19	8.5	8V1

### VALVE NUTS & RIM NUTS – Brass/Steel(Plated)

NDC NO. (TR NO.)	Hex (mm)	Fits Thread	H (mm)
HN1	16	12V1	4.8
HN2	12	8V1	4
HN4	14	12V2	5
HN13	14	10V2	7.8
HN4B	14	12V1	3.8
HNV-1(V9.02.1)	9	6V1	2.8
LM1(E03C)	17	12V1	4.5
LM6(E01)/B	10	8V1/8CV	3.5



NDC NO. (TR NO.)	OD (mm)	Fits Thread	H (mm)
YM6/B	10	8V1/8CV	3.2
V9.03.1	10	6V1	3.0
LN10	19	12V1	6.5
LN10EQ	19	12V1	6.5
YP6/B	9.5	8V1/8CV	7



NDC NO. (TR NO.)	Hex (mm)	OD (mm)	H (mm)	Fits Thread
HN14	25	23.8	4.8	17V2
HN15	24	20.3	6.4	17V3
HN16	25	20.4	4.6	16V1
HN17	19	15.5	6.4	10V2
HN21	16	15.5	8	9V1
HN22	16	15.5	10	9V1
HN80	24	20.3	4.8	17V2
SN5	14	13.5	5	9V1
V9.07.1	14	14	10	10V2
V9.07.2	14	12	10	10V1
V9.07.4	14	12	5.5	10V1
V9.09.3	11	11	5	8V1
V9.13.1	23	19	14	15V1
HN1600(453)	11	10.5	15	8V1
HN1600S	11	10.5	8	8V1
HN522	14	14	16	10V2
HN416E	11	14.5/12.7	21	10V2
HN7711	11	14	16.5	10V2
HN7712	12	14	17	10V2
HN943	14	19/15	8	10V2
HN513	14	19	9.5	10V2



**VALVE EXTENSIONS**

• Passenger Car Extension Caps

Valve Extensions provide a seal against contaminants while extending the valve mouth for convenient access

Plastic Type



Plastic-Metal Type



Metal Type



• Truck & Bus Extensions

• • Straight Metal Type



**HE-370 Light Weight Extensions**

Series has the short collar for use on tube type or tubeless valves. Available in 2" - 3" - 4" - 5" effective Lengths. Has a double seal feature to assure a positive seal.



**HE-390 Light Weight Extensions**

Light weight extensions are the same as above except with a Available in 2" - 3" - 5" - 6" effective Lengths.



**HE-380 Straight Metal Extensions**

These screw on the standard valve stem (.305-32cap thread) and make the valve mouth accessible for service.

• • Bent Metal Type—Nickel / Chrome / Dip(Brass)



VE36-45 (VE36-45B) VE36-135 (VE36-135B) VE36-45NI (VE36-45CR) VE36-90NI (VE36-90CR) VE36-135NI (VE36-135CR)

**LARGE BORE VALVE METAL(BRASS)EXTENSIONS**

Parts:C2, HN1 & VC6 or VC7. Dip (Brass) / Nickel Plated./Zinc Plated.

EXJ127M Eff. Length is 127mm.  
NDC NO: EXJ86M-EXJ615M,17Sizes  
Eff.Length:86-615mm.Dip(Brass);  
Nicked Plated NDC NO.: EXJ86M-Ni-EXJ615M-NI.  
Zinc Plated NDC NO.:EXJ86M-ZN-EXJ615M-ZN.

• • Plastic(Nylon)Type

NDC NO.	Eff.Length (mm/in )	Description
EX13P/EX13PM	13/1/2	Plastic For
EX19P/EX19PM	19/3/4	EX13P Series
EX25P/EX25PM	25/1	Live Stem;
EX32P/EX32PM	32/1-1/4	Metal For
EX38P/EX38PM	38/1-1/2	Ex13PM Series
EX50P/EX50PM	51/2	Live Stem.

• • Metal(Brass)Type-Ni(Nicked)Plated

NDC NO.	Eff.Length (mm/in )	Description
EX13M/VE13M	13/1/2	EX13M Series—
EX18M/VE18M	14-17/65-55	Double Sealing
EX19M/VE19M	19/3/4	Extension Caps;
EX25M/VE25M	25/1	VE13M Series—
EX32M/VE32M	32/1-1/4	Single Sealing
EX38M/VE38M	38/1-1/2	Extension Caps.

\*EX13M Series-Double Sealing Extension cap

• • Straight Metal Type-Long

NDC NO.	Description	Collar Type (in )	Eff.Length (in )
HE-370	Truck extension	Short 3/8"	2"
HE-371	Truck extension	Short 3/8"	2-15/16"
HE-372	Truck extension	Short 3/8"	3-15/16"
HE-373	Truck extension	Short 1"	5-1/8"
HE-389	Truck extension	Long 1"	1-1/16"
HE-390	Truck extension	Long 1"	2"
HE-391	Truck extension	Long 1"	2-15/16"
HE-392	Truck extension	Long 1"	5-1/8"
HE-393	Truck extension	Long 1"	6"
HE-381	Truck extension	Long 1"	3-1/16"
HE-382	Truck extension	Long 1"	5-1/16"
HE-383	Truck extension	Long 1"	6-1/16"

NDC NO.	REF.NO. (RC NO.)	Vertical Height (mm/in )	Bent Angle	Finish
VE36-45NI/CR	HE201	24/1-15/16	45°	Nickel or Chrome Plated
VE36-90NI/CR	HE200	24/1-15/16	90°	
VE36-135NI/CR	HE202	24/1-15/16	135°	Dip (Brass)
VE36-45(B)	V2550.45	24	45°	
VE36-90(B)	V2550.90	24	90°	
VE36-135(B)	V2550.135	24	135°	





• Tire Valve Extensions Rigid For TRUCK

• Plastic Extensions—Germany Type



NDC NO. (TR NO.)	Eff. Length (mm)	Length (mm)
EX33PT/PT-B	33.5	51
EX53PT/PT-B	53.5	71
EX77PT/PT-B	77.5	95
EX97PT/PT-B	97.5	115
EX107PT/PT-B	107.5	125
EX132PT/PT-B	132.5	150
EX152PT/PT-B	152.5	170
EX162PT/PT-B	162.5	180
EX169PT/PT-B	169.5	187

• Plastic Extensions—Italy Type



NDC NO. (TR NO.)	Eff. Length (mm)	Length (mm)
EX33PI/PI-B	33.5	51
EX53PI/PI-B	53.5	71
EX77PI/PI-B	77.5	95
EX97PI/PI-B	97.5	115
EX107PI/PI-B	107.5	125
EX132PI/PI-B	132.5	150
EX152PI/PI-B	152.5	170
EX162PI/PI-B	162.5	180
EX169PI/PI-B	169.5	187

• Flexible Extension And Holders For Truck & Bus

• Extensions With Rubber (R) / Stainless-Braided Rubber (RS) / Stainless-Braided PTFE (S) Hose  
Parts: C1, VC8 or VC3 or VC2.



NDC NO. (TR NO.)	Length (mm)	Hose Dia (mm)
VE/EX75R/RS/S	75	
VE/EX105R/RS/S	105	VE-R Series:
VE/EX125R/RS/S	125	φ 10~11
VE/EX140R/RS/S	140	
VE/EX160R/RS/S	160	EX-R Series:
VE/EX180R/RS/S	180	φ 11.5~12.5
VE/EX210R/RS/S	210	
VE/EX250R/RS/S	250	EX-RS Series:
VE/EX270R/RS/S	270	φ 10.5~12.5
VE/EX300R/RS/S	300	
VE/EX335R/RS/S	335	
VE/EX370R/RS/S	370	
VE/EX430R/RS/S	430	EX-S Series:
VE/EX475R/RS/S	475	φ 8~9.5
VE/EX500R/RS/S	500	
VE/EX695R/RS/S	695	



NDC NO. (TR NO.)	Length (mm)	Hose Dia (mm)
VE/EX125R/RS/S-90	125	
VE/EX140R/RS/S-90	140	
VE/EX180R/RS/S-90	180	
VE/EX210R/RS/S-90	210	
VE/EX280R/RS/S-90	280	See Left Tabulation
VE/EX340R/RS/S-90	340	
VE/EX360R/RS/S-90	360	
VE/EX430R/RS/S-90	430	
VE/EX460R/RS/S-90	460	
VE/EX500R/RS/S-90	500	

• Adapter Section Bend Angle is 90° as illustrated but optional bent angle of 45° or 135° is also available.  
Such as: EX180R-45, EX180S-45, EX180RS-45, EX180R-135, EX180RS-135, EX180S-135 etc.

• Holders / Fasteners For Flexible Valve Extensions

FVE1 (V2660) Simple Holder;  
FVE2 (V2665) Double Holder;  
FVE3 (V2688) Double Holder;





• **Dual Wheel Flexible Valve Extensions**

Provides easy access to the inner dual tire found on campers, recreational vehicles and trucks. Fits standard valve cap threads. Comes with clamp to secure extension to wheel cut-out.  
Parts: C1, FVE4, HN2 & VC3 or VC3S or VC2.

NDC NO.	Eff. Length (mm/in)	Length	Hose Dia (mm)
EX185RF/RSF/SF	178 / 7	185	See
EX235RF/RSF/SF	228 / 9	235	Page27
EX285RF/RSF/SF	278 / 11	285	Tabulation



• **Flexible Braided Wire / Textile Rubber Hose Extensions – Swivel Clamp Type**

Extensions screw onto the inner valve stem and come out thru the outside wheel and, depending on type, they fasten under lug nut or clamp onto the rim.  
Parts: C1, HN2 & VC3 or VC3S or VC2.

NDC NO.	Length (mm)	Hose Dia. (mm)
EX125SE/RE/RSE	125	See Page27 Tabulation
EX150SE/RE/RSE	150	
EX175SE/RE/RSE	175	
EX185SE/RE/RSE	185	
EX200SE/RE/RSE	200	
EX210SE/RE/RSE	210	
EX250SE/RE/RSE	250	
EX350SE/RE/RSE	350	
EX400SE/RE/RSE	400	
EX450SE/RE/RSE	450	
EX500SE/RE/RSE	500	
EX250SE-45/RSE-45	250	



• **Flexible Braided Wire Extensions – Rigid Type**



NDC NO.	Length (mm)	Hose Dia (mm)
EX125RSW	125	φ 10.5– φ 12.5
EX175RSW	175	
EX250RSW	250	
EX350RSW	350	
EX450RSW	450	

Parts: C1, W-EX1/2, HN2 & VC3S or VC3.  
With FVE6L or FVE6Z.

• **Flexible Large Bore Valve Extensions – Rubber Hose (φ 12– φ 14Dia.)**

NDC NO.: EXJ150R–EXJ630R, 11 Sizes.  
Length: 150–630mm.  
Parts: C2, HN1 & VC6 or VC7.







• Flexible Extensions With Stainless-Braided PTFE Hose & Stabilizer

Fits Long Valve Cores With Stainless-Spring Hose. EXC146SR Series. HN2 & GT.



NDC NO.	Eff.Length (mm/in)	Length (mm/in)
EX146LS	136/5.34	146/5-3/4
EX197LS	187/7.34	197/7-3/4
EX216LS	206/8.12	216/8.50
STA3	dia. $\phi$ 12	146/5.75
STA4	dia. $\phi$ 12	90/3.50

• Flexible Extensions With Stainless-Braided PTFE Hose & Brackets

Fits Short Valve Cores C1, HN2 & GT.



NDC NO.	Eff.Length (mm/in)	Length (mm/in)	Bend Angle
EX3300SS	320/12.60	330/13	-
EX251SS-45	248/9.75	251/9.9	45°
VBK-L	dia. $\phi$ 8.5/ $\phi$ 23	H84/3.3	90°
VBK-M	dia. $\phi$ 8.5/ $\phi$ 24	H84/3.3	90°
VBK-H	dia. $\phi$ 8.5/ $\phi$ 35	H84/3.3	90°

• TRUCK & BUS VALVE EXTENSIONS KIT

Truck & Bus Valve Bent Metal Extensions



NDC KIT NO.	PH PART NO.	Description	PARTS REQ'D
AP3	AP3	135DEG. Valve Extension	2

• Inner Dual Valve Extension & Stabilizer Kit – Airplus

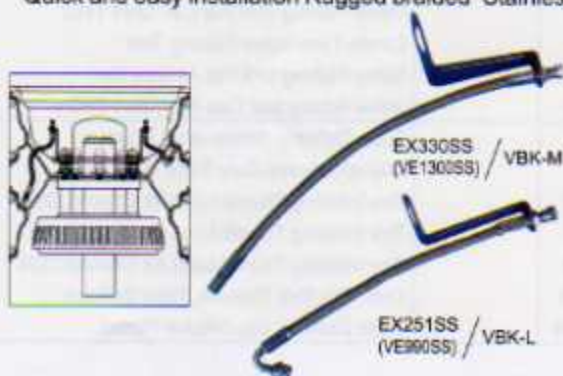
AIRPLUS Install as shown to make filling and checking air pressure quick & easy. Wire stabilizer prevents movement, ideal for use with any brand of wheel simulators. Live stem design prevents air leaks even if damaged.



NDC NO. (PH NO.)	PH PART NO.	Description	PARTS REQ'D	Kit Fits (Air-Plus live stem set)
AP4	VE534LS (EX146LS) STA3	5-3/4" Live Stem (Valve Core)Hoses Long Stabilizer	2	Fits all except '92+Ford E-350 dual wheels.
AP5	VE534LS (EX146LS) STA4	5-3/4" Live Stem (Valve Core)Hoses Short Stabilizer	2	Fits '92+Ford E-350 dual wheels with round hand holes.
AP6	VE734LS (EX197LS) STA3	7-3/4" Live Stem (Valve Core)Hoses Long Stabilizer	2	Fits '92+Ford F-450-F-550 with 19.5" wheels.
AP7	VE850LS (EX216LS) STA3	8.50" Live Stem (Valve Core)Hoses Long Stabilizer	2	Fits '99+Ford Motorhome chassis with 19.5" wheels.

• Four Hose Dual Wheel Valve Stem Extensions With Brackets – AirMax

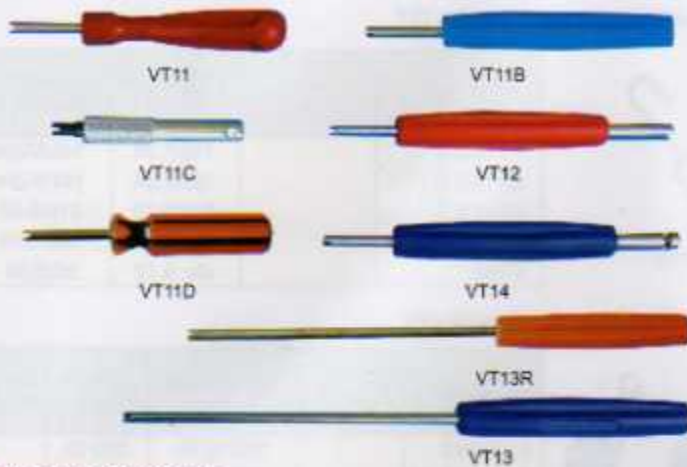
Quick and easy installation Rugged braided Stainless Steel Two pair of extensions. With brackets makes checking air and filling easier.



NDC NO. (PH NO.)	PH PART NO.	Description	PARTS REQ'D	Kit Fits (Air-Max live stem set)
AML1	VE990SS VE1300SS VBK-L	9" Hose 13" Hose Light Duty B.K.	2 2 4	Light Duty Air Max Kit Fits Dual wheels up to 19.5" with stud extender attachment.
AMM1	VE990SS VE1300SS VBK-M	9" Hose 13" Hose Med. Duty B.K.	2 2 4	Med. Duty Air Max Kit Fits Dual wheels up to 19.5" with jamnut attachment.
AMH1	VE990SS E1300SS VBK-H	9" Hose 13" Hose Heavy Duty B.K.	2 2 4	Heavy Duty Air Max Kit. Fits Dual wheels 19.5" through 24.5" with stud extender attachment.



**VALVE CORE TOOLS**



NDC NO.	Description
VT11	Standard Bore Core Remove
VT11B	Screwdriver With Plastic Handle
VT11C	Screwdriver With Metal(AL)Handle
VT11D	See VT11
VT12	Large/Standard Bore Core Remove
VT13	Long Type,Standard Bore Core Remove
VT13R	See VT13,Red-Handle
VT14	Valve Core / Caps Screwdriver

**VALVE TOOLS**



NDC NO.	Description
VT21	4-Way Valve Tool,Zn or Cr Plated
VT21B	4-Way Valve Repair Tool
VT22	4-Way Valve Tool,Black Hardened
VT22B	Heavy-Duty 4-Way Valve Repair Tool
VT22C	For Large Bore Valve,B.H./Zn Plated
VTJ23	2-Way Valve Repair Tool.
VTJ24	4-Way Large Bore Valve Tool, Zn Plated
VTJ25	4-Way Large Bore Valve Tool,B.H.
VTJ26	Multi-way Large Bore Valve Tool, Zn plated

**VALVE INSTALLATION TOOLS**



NDC NO.	Description
VT31	Snap-in Valve Installation tool,Zn Plated.
VT31C	Snap-in Valve Installation tool,Cr Plated.
VT31B	Lever Mounting Tool For Snap-in Valves
VT31P	Valve Mounting Tool , Plastic Handle-Blue/Green
VT31PA	Pang valve tool for snap-in Tubeless Valve
VT31MD	Quick mount/dmounting Valve tool for Valve
VT32	Hex Nut Driver for 500 Series Truck Valves
VT32C	Chrome Hex Nut Driver for Truck Valves

**VALVE SPECIAL TOOLS**



NDC NO.	Description
VT33	Cable-Type Valve Fishing Tool
VT33B	Valve Service tool,Germany Type ,NI Plated
VT33C	Valve Fishing Tool For L.B. 12V1 THD.
VT34	Chain-Type Valve Fishing Tool
VT34B	Valve Fishing tool Fits All Size Rim
VT34C	Valve fishing tool,Cap Fits 12V1 THD.
VT35	Tube Deflator, Screw-on S.B.Valve.
VT36	Clip-on, Heavy-Duty Tube Deflator.
VT36-6	Tire Inflating Thumb Lock Air Chucks,OD6
VT36-7	Tire Inflating Thumb Lock Air Chucks,OD7
VT36-8	Tire Inflating Thumb Lock Air Chucks,OD8
VT36-S	Od6, Fits 5V2 Threads,Tube Deflator.
VT37/NI	Tube Deflator, Dip / Nickel Plated.



**EUROPEAN STYLE CLIP-ON AIR CHUCKS**



NDC NO.	Type	Description
AC51	Open	D= $\phi$ 6mm Air chuck, Ni Plated
AC51C	Closed	D= $\phi$ 6mm Air chuck, Ni Plated
AC52	Open	D= $\phi$ 8mm Air chuck, Ni Plated
AC52C	Closed	D= $\phi$ 8mm Air chuck, Ni Plated
AC52Y	Open	D= $\phi$ 8mm Air chuck, Yellow Dip
AC52T	Open	8V1 THD Air chuck, Ni plated
AC53	Closed	D= $\phi$ 7mm long, Air chuck, Yellow Dip
AC54	Closed	D= $\phi$ 8mm long, Air chuck, Ni Plated
AC55	Open	1/4" NPT, Air chuck, Ni Plated
AC55C	Closed	1/4" NPT, Air chuck, Ni Plated
ACJ56	Open	D= $\phi$ 8mm Large Bore Air chuck, Ni Plated.

**TIRE INFLATING AIR CHUCKS - CLIP / BALL FOOT / STRAIGHT - USA STYLE**



NDC NO.	Type	Description
AC691	Open	Check ball foot air chuck and clip, 1/4" FPT
AC691C	Closed	Ball foot air chuck and clip, 1/4" FPT
AC692	Open	Clip-on chuck, $\phi$ 6- $\phi$ 12.5 I.D. Hose Barb
AC692C	Closed	Clip-on chuck, $\phi$ 6- $\phi$ 12.5 I.D. Hose Barb
AC693	-	Air chuck clip, fits all std. air chucks
AC694	Open	Air chuck clip, R1/4" BSP. par (1/4" NPT)
AC694C	Closed	Air chuck clip, R1/4" BSP. par (1/4" NPT)
AC690-1	Open	Ball foot air chuck (1/4" FPT)
AC690-1C	Closed	Ball foot air chuck (1/4" FPT)
AC690-2	Open	Air chuck, $\phi$ 6- $\phi$ 12.5 I.D. Hose Barb
AC690-2C	Closed	Air chuck, $\phi$ 6- $\phi$ 12.5 I.D. Hose Barb
AC690-4	Open	Air chuck, R1/4" BSP. par (1/4" NPT)
AC690-4C	Closed	Air chuck, R1/4" BSP. par (1/4" NPT)
AC695	Open	Check lock-on chuck, 1/4" FPT
AC695C	Closed	Check lock-on chuck, 1/4" FPT
ACJ6105		Clip-on Air chuck, for L.B. 1/4" FPT

**DUAL FOOT AIR CHUCKS / LARGE BORE CHUCKS**



NDC NO.	Description
AC696	Dual foot extension chuck 6" (1/4" FPT)
AC698	Dual foot str.-on & 30° Reverse angle lock-on chucks
AC696L	Long dual foot (13") chuck, 1/4" FPT
AC698L	Long dual foot chuck str.-on & 30° Reverse angle
AC618/C	Dual head Air chuck, $\phi$ 9 mm Hose barb.
ACJ6100	Right angle chuck for L.B. / Sta. 1/4" FPT
ACJ6102	L.B. (long) Lock-on Air Chuck, 1/4" FPT



**PENCIL TIRE AIR GAUGES (POCKET AIR GAUGES)**

**NDC 01**

Radial and high pressure spare tire gauge. Calibrated 10-75 psi in 1-lb units. Also ideal for all cars, mobile homes, R/V's, light trucks, cycles and other vehicles. Packed 10 Per box.

**NDC 02**

Standard 10-50 psi gauge calibrated in 1-lb units for service and glove compartment sales. Packed 10 Per box.

**NDC 03**

High pressure 20-120 psi gauge calibrated in 2-lb units for truck and bicycle tires. Packed 10 Per box.

**NDC 04**

Extra low pressure 1-20 psi in 1/2lb units. Ideal for air lifts and extra low pressure tires. Packed 10 Per box.

**NDC 05**

Standard low pressure 10-75 psi gauge in 1-lb units. Has Nylon slide bar. Packed 10 Per box.

**NDC 06**

High pressure gauge for truck and bicycle tires. Calibrated 20-120 psi in 5-lb units. Has Delrin indicator. Packed 10 Per box.

**NDC 07**

Tractor air / liquid gauge 4-50 psi in 1-lb units. Internal parts not affected by calcium chloried solutions if gauge is flushed out after each use. Has special pump out and oiling features. Packed 10 Per box.

**Brass Barrel and Chuck  
Has nylon or metal bar**



NDC 01



NDC 02



NDC 03



NDC 04

**Aluminum Barrel and Chuck  
Has nylon bar**



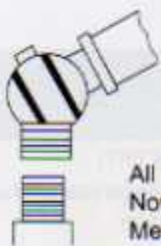
NDC 05



NDC 06



NDC 07



All pencil Gauges  
Now Have  
Metal Chuck Guide



Personalized  
Hot Stamp  
Imprinting

Sleeve smoothly guides chuck squarely onto valve. Assures correct pressure reading the first time.

Company name and/or Logo can be permanently imprinted on barrel. Ideal premium gift certain to be used often. Choice of several colors.



**Counter Display Pack**  
 Attractive display package contains ten gauges. Important tire life message help customers sell themselves on need for personal gauge.



**TREAD DEPTH GAUGES / LARGE BORE GAUGES**



NDC NO.	Description
TG666	Tread Depth Gauge-Pencil Type Calibrated 0-1" in 1/32" / 0-25 mm
TG666S	Truck Tire Tread Depth Gauge (Stainless-steel). Calibrated in 1/32" and 0 to 25 mm
TGJ6110	Swivel Foot Gauge For Large Bore Gauge. Calibrated 10-150 psi / 100-1050 kPa.
TGJ6111	Straight-On Pencil Gauge For Large Bore Gauge. Calibrated 10-130 psi / 100-900 kPa.
TGJ6112	Two-piece gauge spans tread lugs calibrated 0"-6" in 1/32 increments.

**PREMIUM AIR GAUGES**

- Premium Pocket Tire Air Gauges: TGP659-TGP663 (Calibrated same as p.32 NDC 01 to NDC 04).
  - Premium Dual Foot Tire Air Gauges: TGP664, TGP669, TGP665M, TGP668M, TGP665, TGP668.
- Each of NDC premium pocket and dual foot air gauges has industry use chrome plated. Truck gauges are recalibratable air gauge. Pocket gauge with metal bar available.



**INFLATOR GAUGES**



NDC NO.	Description
TG651	Lever Type Inflator W/3' Hose. 4-sided bar, calibrated 10-80 lbs. / 70-550 kPa,
TG652	Lever Type Inflator W/6' Hose. 4-sided bar, calibrated 10-80 lbs. / 70-550 kPa, with clip-on air chuck.
TG653 TG653K	Dual Foot Chuck Inflator, W/3' Hose. 4-sided bar, calibrated 10-150 lbs. / 70-1000 kPa, with dual-foot chuck. Hose length optional.



**Recalibratable Truck Gauges**

Recalibration pressure reading without disassembling the gauge.  
 Metal or nylon bar calibrated 10 to 150 psi in 2-psi increment.



TG 644N, TG644M



TG 665N, TG665M



TG 666N, TG666M



TG 668N, TG668M



Turn the adjustment screw

Calibration adjustment screw on end of indicator bar, turn the screw-in to increase pressure reading, turn the screw-out to decrease the pressure reading, until it matches with Master Gauge.

**Digital Truck Tire Air Gauge**

Gauge automatic bleed air out for the next measurement.  
 Gauge structure fits into the existing dual foot gauge.  
 Automatic shut off after 60 seconds if not used.  
 Average battery life 10,000 checks.  
 Accuracy  $\pm 1\%$  full scale (FS).  
 Calibration 10 psi-150 psi in 0.5-psi increment.  
 Pass 0 °F and 100 °F Temperature and 3-1/2 feet horizontal drop test.



NDC 20D

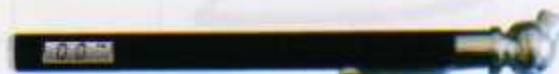


NDC 21D

When the gauge is not used it stay in "sleep mode" .The user can "wake-up" the gauge by depressing the on/off button momentarily.The user can switch the unit by depressing the on/off button momentarily. Depressed the on/off button and hold for 2-seconds to force turn off the power.

**Pencil T ype Digital Pressure Gauge**

Calibration:5-80 psi  
 Package:Molded PC with chrome plated brass chuck  
 Power:3 Volts lithium coin cell battery  
 Accuracy:  $\pm 1$ -psi full scale  
 Capable: displaying in psi or Kpa.



NDC 10D

Power on/off:  
 When the gauge is not used it stays in "sleep mode" power automatic turn off after 30 seconds from the last measurement, depress the button for 2-seconds force to turn off the power.

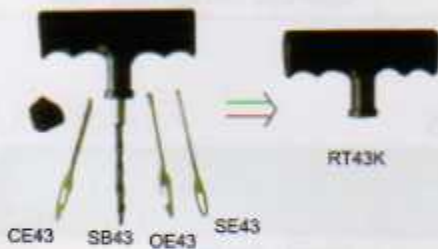


**SCRAPER & STITCHER**



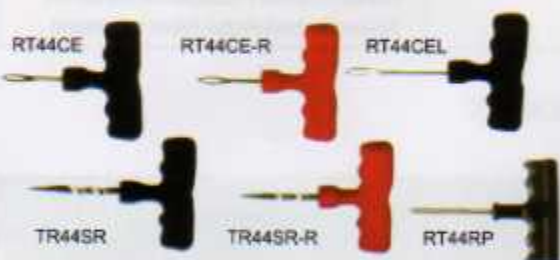
NDC NO.	Description
RT40	Rubber Scraper
RT40B	Inner Liner Scraper
RT41	Blade Style Inner Liner Scraper
RT41B	Stitcher/Buffer
RT42	1-1/2" x 1/8" Wood Handle Stitcher, dust-metal
RT42C	1-1/2" x 1/8" Stitcher, Steel Ni Plated
RT42D	1-1/2" x 1/4" Stitcher, Steel Ni Plated
RT42-132	1-1/2" x 1/32" Stitcher, Steel Cr Plated
RT42-116	1-1/2" x 1/16" Stitcher, Steel Cr Plated
RT42-118	1-1/2" x 1/8" Stitcher, Steel Cr Plated
RT42-114	1-1/2" x 1/4" Stitcher, Steel Cr Plated
RT42-214	2" x 1/4" Stitcher, Steel Cr Plated

**4-IN-1 PLASTIC T-HANDLE INSERTING TOOLS**



NDC NO.	Description
RT40K	Professional Inserting CE43— Closed-Eye Inserting Needle, Rep. OE43— Open-Eye Inserting Needle, Rep. SE43— Split-Eye Inserting Needle, Rep. SB43— Screw-Barbed Probe, Rep

**PLASTIC T-HANDLE INSERTING TOOLS**



NDC NO.	Description
RT44CE/OE/SE RT44SP/RP RT44SR/SB RT44CEL RT44OE/SEL RT44SBL	Closed / Open / Split-Eye Needles Smooth Probe (Awl) / Power-Rasp Probe Screw Reamer / Screw-Barbed Probe Closed -Eye Long Needles Open/Split-Eye Long Needles Screw-Barbed Probe, Long

**PROFESSIONAL CHROME-HANDLE INSERTING TOOLS & DURABLE REPLACEMENT NEEDLES**



NDC NO.	Description
RT45	Replacement T-Handle
RT45CE/OE/SE RT45SR/SB RT45SEL	Closed / Open/Split-Eye Needles Screw Reamer / Screw-Barbed Probe 412SE, Split-Eye Long Needle
312CE/OE/SE 412CE/OE/SE 514CE/OE/SE 514SR/SB 712CE/OE/SE	3-1/2" Closed / Open / Split-Eye Needles 4-1/2" Closed / Open / Split-Eye Needles 5-1/4" Closed / Open / Split-Eye Needles 5-1/4" Screw Reamer / Screw-Barbed Probe 7-1/2" Closed / Open / Split-Eye Needles
HW25	Hexagon (Allen) wrench, S2.5 mm



**4-in-1 CHROME-HANDLE INSERTING TOOLS**

NDC NO.	Description
RT46K	Professional Inserting CE46 - Closed-Eye Needle, Rep. OE46 - Open-Eye Needle, Rep. SE46 - Split-Eye Needle, Rep. SB46 - Screw-Barbed Probe, Rep



**PISTOL-GRIP-HANDLE INSERTING TOOLS**



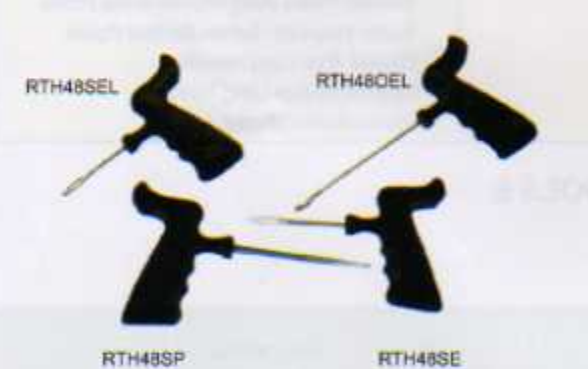
NDC NO.	Description
RT47CE/OE/SE	Closed/ Open/ Split-Eye Needle
RT47SP/RP	Smooth Probe(Awl) /Power-Rasp Probe
RT47SR/SB	Screw Reamer/ Screw-Barbed Probe
RT47CEL	Closed-Eye Long Needle
RT47OEL/SEL	Open-Eye/ Split-Eye Long Probe

**HEAVY-DUTY, SUPER-GRIP, T-HANDLE INSERTING TOOLS**



NDC NO.	Description
RTH44CE	Closed / -Eye Needle
RTH44OE	Open-Eye Needle
RTH44SE	Split-Eye Needle
RTH44SR	Screw-Reamer Probe, Black Hardened
RTH44SB	Screw-Barbed Probe, Black Hardened

**HEAVY-DUTY PISTOL-GRIP - HANDLE INSERTING TOOLS**



NDC NO.	Description
RT48CE/OE/SE	Closed/ Open/ Split-Eye Needle
RT48SP/RP	Smooth Probe(Awl) /Power-Rasp Probe
RT48SR/SB	Screw Reamer/ Screw-Barbed PROBE
RT48CEL/OEL	Closed/Open-Eye Long Needle For Truck
RT48SEL	Split-Eye Long Needle, For Truck

**PERMACURE/HEAVY-DUTY PISTOL-GRIP-HANDLE INSERTING TOOLS & DURABLE REPLACEMENT NEEDLES**



NDC NO.	Description
RTP48	H.D Pistol-grip-handle, Replaceable
RTP48CE/OE/SE	Closed/ Open/ Split-Eye Needle
RTP48SP/RP	Smooth Probe(Awl)/Power-Rasp Probe
RTP48SR/SB	Screw Reamer/Screw-Barbed Probe
RTP48CEL	Closed-Eye Long Needle, For Truck
RTP48OEL	Open-Eye Long Needle, For Truck
RTP48SEL	Split-Eye Long Needle, For Truck





SCREW DRIVER-TYPE-HANDLE INSERTING TOOLS



NDC NO.	Description
RT49CE/OE/SE RT49SP/RP RT49SR/SB RT49SPL RT49OEL/OEXL	Closed / Open / Split-Eye Needle Smooth Probe (Awl) / Power-Rasp Probe Screw Reamer / Screw-Barbed Probe RT49SPL-Long Open-Eye Long Needle, 6" (150mm)
RT49SR-3 RT49SR-4 RT49SR-6 RT49SR-7 RT49SR-8 RT49SR-9 RT49SR-12 RT49SR-13	Stickie-back Reamer, 3 3/4" (95mm) Length // 1/8" dia. Stickie-back Reamer, 4 1/2" (115mm) Length // 1/8" dia. Stickie-back Reamer, 6 1/2" (165mm) Length // 3/16" dia. Stickie-back Reamer, 7" (180mm) Length // 3/16" dia. Stickie-back Reamer, 8 3/4" (225mm) Length // 1/4" dia. Stickie-back Reamer, 9 1/2" (240mm) Length // 1/4" dia. Stickie-back Reamer, 12 5/8" (320mm) Length // 5/16" dia. Stickie-back Reamer, 13" (330mm) Length // 5/16" dia.

HEAVY-DUTY SCREW DRIVER-TYPE-HANDLE INSERTING TOOLS



NDC NO.	Description
RT50CE/OE/SE RT50SP/RP RT50SR/SB RT50CEL/OEL RT50SEL RT50CE-5 RT50OE-5 RT50SE-5	Closed / Open / Split-Eye Needle Smooth Probe (Awl) / Power-Rasp Probe Screw Reamer/Screw-Barbed Probe Closed/Open-Eye Long (4") Needle Split-Eye, Long (4") Needle Closed-Eye Needle, 5" Length Open-Eye Needle, 5" Length Split-Eye, Needle, 5" Length
RTW50OE RTW50SR	Open-Eye Needle, 9" (225mm) Length Split Reamer(Giant Spiral Cement tool)
RTP50-1 RTP50-2 RTP50-3	Skive packing tool, 1/4" x2" Skive packing tool, 3/8" x2" Skive packing tool, 3/8" x3-1/2"

SKIVING KNIVES

NDC NO.	Description
RTK50-1	X2T Taper Skiving knife
RTK50-2	X1Y Extra curve sharp skiving knife
RTK50-3	X3N Round Point flexible blade skiving knife



RUBBER AXLE TREATH—RAS01



RAS01



**NDC** Novus Device Corporation

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