

Hardware/ End Fittings



Hardware/ End Fittings Industrial & Performance

Wide range of hardware available for most applications.
Please contact us for further information.

Description:

Hardware/End Fittings
Industrial & Performance

Applications:

- Wide range

Features:

- See individual descriptions

Other Related Products:

- Linkages
- Control Cable Assemblies
- Control Heads
- Hand Control Assemblies
- Foot Control Assemblies
- Manual Transmission Shifter



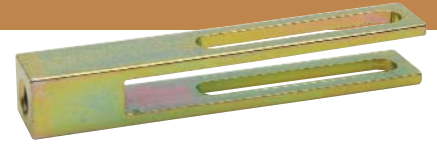
Linking Motion & Control...

The Tuthill Solution

Hardware / End Fittings

Slip Clevis

Part Number	Thread	Pin Dia.	Length	Inside Opening	Inside Depth
AC310	1/4-28 UNF	1/4"	3.25	.28"	2.5"



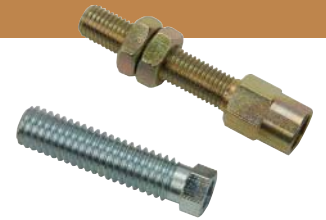
Female Threaded Eye Ends

Part Number	Internal Threads	Pin Hole	Thickness
EE9061	5/16 - 24	1/4"	.438
EE9069	10-32	1/4"	.344
EE9151	1/4 - 28	1/4"	.344
185-051-001	5/16 - 24	9/32"	.250



End Rod Thread Adapters

Part Number	From (Internal)	To (External)
161-009-001	1/4-28	3/8-28
161-009-003	10-32	5/16-24
161-009-005	1/4-28	3/8-16
161-009-006	5/16-24	3/8-24
161-009-007	10-32	1/4-28



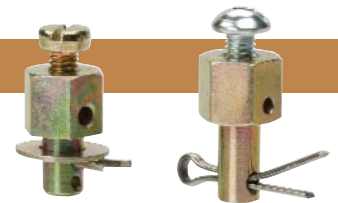
Threaded Pivots

Part Number	Internal Threads	Pin Dia.	Material Thickness
161-091-000	10-32	1/4"	1/4"
161-093-002	1/4-28	1/4"	1/4"
161-093-003	1/4-28	1/4"	5/16"



Wire Stop/Pivot

Part Number	Wire	Pin Dia.	Material Thickness	Set Screw
160-450-001	.075	1/4"	3/16"	10-32 UNF
160-450-002	.075	1/4"	5/16"	10-32 UNF



Wire Stop

Part Number	Hole Size	Set Screw
156-416-001	.138"	8-31 UNC Hex Socket
156-416-002	.093"	8-32 UNC Hex Socket
160-429-001	.138"	8-32 UNC Slotted
160-429-002	.093"	8-32 UNC Slotted



U-Bolts (furnished with 2 hex nuts)

Part Number	From (Internal)	To (External)
161-010-001	10-32 UNF	VLD
161-010-002	1/4-28	LD
161-010-003	5/16-24	MD
161-010-004	3/8-24	HD



VLD/LD Mounting (fits grooved conduit fitting)



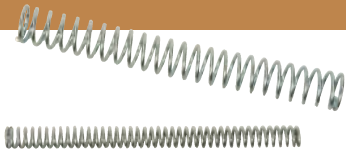
Part Number
ST3652

Strap Clamps and Shims



Use With	Strap	Shim
VLD	161-011-001	175-435-050
LD	161-011-002	175-435-051

Compression Springs (for brake cables)



Part Number	Inside Dia.	Outside Dia.	Length	Solid Height	Spring Rate
175-923-001	.30	.437	12.0	4.6	3.93lb/inch
175-923-002	.30	.437	6.4	3.20	5.75lb/inch
175-923-006	.30	.437	5.7	2.87	6.23lb/inch
175-923-001	.26	.437	10.0	6.62	15.97lb/inch
175-923-003	.40	.500	4.3	1.00	4.47lb/inch

Bellows (trim to length)



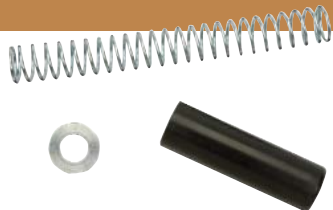
Adapter Ring

Part Number	For Use With Cable Size
175-435-072	VLD
175-435-081	LD
175-435-082	MD

Part Number	For Use With Cable Size	Compressed Length	Extended Length	Max Travel
175-522-001	VLD	3.0"	8.0	6.0
175-524-001	LD	3.4"	9.7	6.0
175-525-001	MD	4.5"	11.3	6.0

Maximum recommended travel is shown.
Must be trimmed shorter for use on shorter travel cables.
See cutting matrix #CC-111. Adapter rings to mount bellows to conduit fittings.

Spring Return Kit



Convert any LD size, 2" travel threaded swivel end to spring loaded to extended position
Force with end rod extended - 4.6lbs
Force with end rod retracted - 15.2lbs

Part Numbers:	Spring	175-930-001
	Collar	175-435-118
	Outer Guide	160-071-025

Umbrella Seal



Part Number	For Use With Cable Size
160-071-005	VLD, 2"
160-071-006	VLD, 3"
160-071-007	VLD, 4"
160-071-008	LD, 2"
160-071-009	LD, 3"
160-071-010	LD, 4"
160-071-011	MD, 2"
160-071-012	MD, 3"
160-071-013	MD, 4"

Knobs/Handles

Part Number	Type	Thread Size
165-183-001	PTO	1/4-28
165-183-002	PTO	1/4-20
165-183-003	PTO	5/16-18
165-183-004	PTO	5/16-24
165-103-001	2" Mushroom	1/4-28
165-103-002	2" Mushroom	1/4-20
165-103-004	2" Mushroom	3/8-24
165-103-006	2" Mushroom	5/16-18
165-038-124	2" Mushroom	1/2-13
165-038-106	1-3/8" dia. x 4-3/8" tall	1/2-13
165-172-201	3-1/2" Aluminum T	1/4-20
165-172-202	3-1/2" Aluminum T	1/4-28
165-172-203	3-1/2" Aluminum T	5/16-28
165-172-206	3-1/2" Alum./Black T	1/4-20
300-057-008	3-1/2" Alum. Twist Lock T	N/A



Hydroback

Part Number	Travel	Spring Force at Center	For Use With Cable Size
165-073-210	2"	10lb	LD
165-073-220	2"	20lb	LD
165-073-310	3"	10lb	LD
165-073-320	3"	20lb	LD
165-072-210	2"	10lb	MD
165-072-220	2"	20lb	MD
165-072-310	3"	10lb	MD
165-072-320	3"	20lb	MD



Spool Valve Adapters - Open Style Mount

Part Number	For Use On
185-101-001	Comm. Shearing 505
185-101-002	Comm. Shearing D50
185-101-003	Comm. Shearing A35
185-101-004	Comm. Shearing A20
185-101-005	Comm. Shearing VA20
185-101-006	Husco 6000
185-101-007	Husco 7120
185-101-008	Gresen V20, Husco 5000 V10, V31P, V42, CP, CT, CPT, CS, 25P, 25PK



Modulator Assemblies and Replacement Cables

Cable Output End	MODULATOR UNIT WITH CABLE		Cable Only
	Pull To Operate	Push To Operate	
A. Grooved Mount			
173 Utility	CA 343-3-001-L	CA 343-3-002-L	CA 343-3-L
174 Utility	CA 343-4-001-L	CA 343-4-002-L	CA 343-4-L
B. Threaded Mount			
173 Utility	CA 341-3-001-L	CA 341-3-002-L	CA 341-3-L
174 Utility	CA 341-4-001-L	CA 341-4-002-L	CA 341-4-L



REPLACEMENT CABLES ONLY FOR OTHER USA MANUFACTURED MODULATORS

Cable Output End	173 Utility	174 Utility
Grooved Mount	CA 213 G-L	CA 214 G-L
Threaded Mount	CA 213 T-L	CA 214 G-L



All dimensions are represented in inches

- Please refer to the cautions/warnings and appropriate installation usage information in the Technical/Application Data sheet
- For application assistance/technical questions, please contact us at the appropriate location listed below or through our website at www.tuthillcontrols.com



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