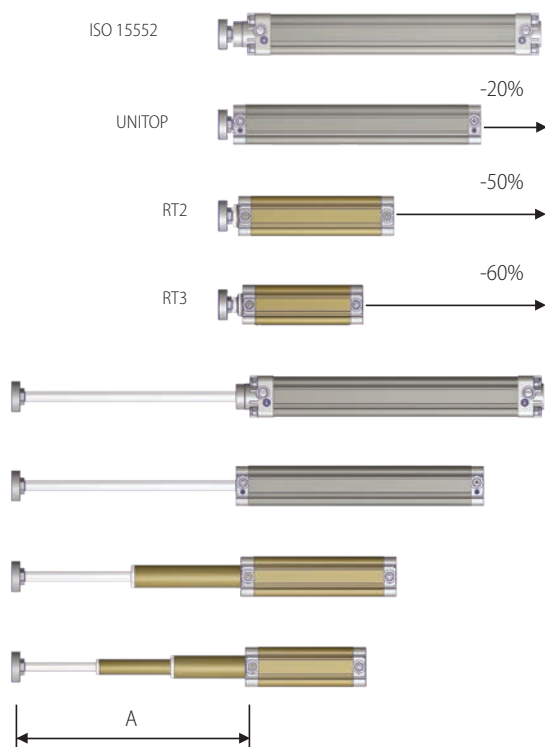


Comparison of overall dimensions stroke 300 mm (A)



Fluids compatibility
filtered air, with or without lubrication



UNIVER Original design and technology.
Industrialized components and advanced technology.
60% less than standard cylinders.
Non-rotation octagonal tube standard supplied



Temperature
-20 °C
+ 80 °C



Pressures
1,5 bar (0.15 MPa)
10 bar (1 MPa)



Reference Standard

ATEX
2014/34/UE



Sensors recommended
DF

TELESCOPIC PNEUMATIC CYLINDERS 2/3 - STAGE Ø 25 ÷ 63 MM

Telescopic cylinders work under optimal conditions when the load is in axial position, i.e. when the cylinder is placed vertically, working either upward or downward. They can obviously work also horizontally and cantilevered, but in this case it is needed to:

- Reduce the maximum stroke by 50% compared to nominal maximum strokes
- Request cylinders with slide units
- Support the radial load by means of other devices such as carriages, slides or sliding guides

Ø	Nominal tolerance on stroke (mm) and maximum applicable torque (Nm) for non-rotating piston rod			
	Tolerances (mm)		Applicable torque (Nm)	
	2 stage	3 stage	2 stage	3 stage
25	+2/0	-	0,5	-
32	+3,2/0	-	0,8	-
40	+3,2/0	+4/0	1	0,5
50	+3,2/0	+4/0	2	0,8
63	+3,2/0	+4/0	3	1

Ø	Theoretical forces at 6 bar (N) (2 stages)			
	Available surface mm²		Working pressure bar	
	thrust	traction	thrust	traction
25	201	111	123	65
32	314	201	192	123
40	490	377	300	231
50	804	603	492	369
63	1256	1055	769	649

Ø	Theoretical forces at 6 bar (N) (3 stages)			
	Available surface mm²		Working pressure bar	
	thrust	traction	thrust	traction
40	201	111	123	65
50	314	201	192	123
63	490	377	300	231

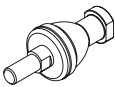
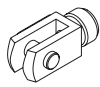
CHARACTERISTICS

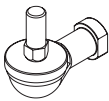
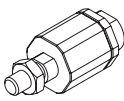
Fluid	filtered air, with or without lubrication
End-caps	die-cast aluminium
Barrel	internally/externally anodized aluminium
Piston	aluminium
Guide slide	acetalic resin
Piston rod	Non-rotating chrome-plated steel complete with flanges (female piston rod) Steel, Stainless steel on request
Piston seal	NBR
Guide bush for piston rod	acetalic resin
Shock absorber seals	NBR
Magnet	standard (stage 1)

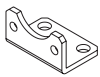


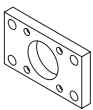
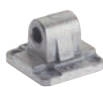
Series	Piston rod	Stage	Type	Bore (mm)	Stroke (mm)	Option
R T	2	2	0	0 3 2	0 6 0 0	L
RT Telescopic Pneumatic Cylinders (with non-rotating piston rod and elastic shock absorber seals)	2 Piston rod Chromium-plated steel On request 1 Chromium-plated steel piston rod	2 2 stages 3 3 stages	0 D.E. Female piston rod 3 D.E. Male piston rod	2 stage 025 = Ø25 032 = Ø32 040 = Ø40 050 = Ø50 063 = Ø63 3 stage 040 = Ø40 050 = Ø50 063 = Ø63	2 stage 0100 0600 0120 0700 0160 0800 0180 0900 0200 1000 0300 1100 0400 1200 0500 Max Stroke 0300 (Ø25) 0400 (Ø32) 0600 (Ø40) 0900 (Ø50) 1200 (Ø63) 3 stage 0150 0450 0180 0600 0210 0750 0240 0900 0270 1500 0300 1800 0360 Max Stroke 1200 (Ø40) 1500 (Ø50) 1800 (Ø63)	L Freely rotating piston rod M With telescopic magnetic shaft (stage 2° - 3°) except for Ø 25, only for female piston rod

FIXING ELEMENTS AND ACCESSORIES - TELESCOPIC PNEUMATIC CYLINDERS ISO 21287

Ø	Ø	SELF-LUBRICATING CONNECTING ROD ENDS			AXIAL JOINT		NUT FOR RODS		YOKE WITH LOCABLE PIN		
											
		Steel	Stainless steel	Steel	Steel	Steel	Steel	Steel	Steel	Stainless steel	Steel
		Aignep	Aignep	Univer	Aignep	Univer	Aignep	Univer	Aignep	Aignep	Univer
M10 x 1,25	25 - 32 - 40	TF 025	TFI 025	KF-17032	TS 025	KF-22025	0DA00 00 51 C9 ZI	KF - 16032	FC 025	FCI 025	KF-15032
M12 x 1,25	50 - 63	TF 040	TFI 040	KF-17040	TS 040	KF-22040	0DA00 00 51 D5 ZI	KF - 16040	FC 040	FCI 040	KF-15040

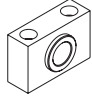
Ø	Ø	ROD ENDS SELF-LUBRICATING				SELF-ALIGNING JOINT			
									
		Aignep				Univer			
M10 x 1,25	25 - 32 - 40	-				KF-23025			
M12 x 1,25	50 - 63	-				KF-23040			

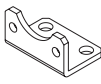
Ø	FEMALE HINGE			LOW FOOT			NARROW FEMALE HINGE FOR SQUARE JOINT WITH DIN648K SWIVEL HEAD			ALUMINIUM FEMALE HINGE with bushings		
												
	Aluminium	Steel	Aluminium	Steel	Stainless steel	Steel	Aluminium	Steel	Aluminium	Aluminium	Stainless steel	Aluminium
	Aignep	Aignep	Univer	Aignep	Aignep	Univer	Aignep	Aignep	Univer	Aignep	Aignep	Univer
32	VCH 032	VCHZ 032 NE	KF-10032	VCP 032	VCPI 032	KF-13032	VCD 032	VCDZ 032 NE	KF-10032S	VCF 032	VCFI 032	-
40	VCH 040	VCHZ 040 NE	KF-10040	VCP 040	VCPI 040	KF-13040	VCD 040	VCDZ 040 NE	KF-10040S	VCF 040	VCFI 040	-
50	VCH 050	VCHZ 050 NE	KF-10050	VCP 050	VCPI 050	KF-13050	VCD 050	VCDZ 050 NE	KF-10050S	VCF 050	VCFI 050	-
63	VCH 063	VCHZ 063 NE	KF-10063	VCP 063	VCPI 063	KF-13063	VCD 063	VCDZ 063 NE	KF-10063S	VCF 063	VCFI 063	-

Ø	ANTI-ROTATION PIN FOR NARROW FEMALE HINGE VCD			FLANGIA			NARROW MALE HINGE WITH SWIVEL HEAD DIN648K				MALE HINGE			
														
	Steel	Stainless steel		Steel	Stainless steel	Steel	Aluminium	Stainless steel	Steel	Aluminium	Aluminium	Stainless steel	Steel	Aluminium
	Aignep	Aignep	Univer	Aignep	Aignep	Univer	Aignep	Aignep	Aignep	Univer	Aignep	Aignep	Aignep	Univer
32	VPS 032	VPSI 032	KF-10032S	VFL 032	VFLI 032	KF-12032	VCS 032	VCSI 032	VCSZ 032 NE	KF-11032S	VCM 032	VCMI 032	VCMZ 032 NE	KF-11032
40	VPS 040	VPSI 040	KF-10040S	VFL 040	VFLI 040	KF-12040	VCS 040	VCSI 040	VCSZ 040 NE	KF-11040S	VCM 040	VCMI 040	VCMZ 040 NE	KF-11040
50	VPS 050	VPSI 050	KF-10050S	VFL 050	VFLI 050	KF-12050	VCS 050	VCSI 050	VCSZ 050 NE	KF-11050S	VCM 050	VCMI 050	VCMZ 050 NE	KF-11050
63	VPS 063	VPSI 063	KF-10063S	VFL 063	VFLI 063	KF-12063	VCS 063	VCSI 063	VCSZ 063 NE	KF-11063S	VCM 063	VCMI 063	VCMZ 063 NE	KF-11063

Ø	DF SENSOR AND DHF COVERING STRIP				CABLE CLAMPING FOR DF SENSOR			
								
	Aignep				Univer			
16 - 20 - 25 - 32 - 40 - 50 - 63	-				DHF-0020100			
	Aignep				Univer			
	-				DF-001			

FIXING ELEMENTS AND ACCESSORIES - TELESCOPIC PNEUMATIC CYLINDERS ISO 21287

Ø	SUPPORT FOR CLEVIS BRACKET		SQUARE JOINT			WIDE LOW FOOT		HINGE PIN WITH SEEGER RING		
										
	Steel	Steel	Aluminium	Stainless steel	Aluminium	Steel	Steel	Steel	Stainless steel	Steel
	Aignep	Univer	Aignep	Aignep	Univer	Aignep	Univer	Aignep	Aignep	Univer
32	VSI 032	KF-41032	VAS 032	VASI 032	KF-19032SCTA	VCB 032 NE	-	VPE 032	VPEI 032	KF-18032
40	VSI 040	KF-41040050	VAS 040	VASI 040	KF-19040SCTA	VCB 040 NE	-	VPE 040	VPEI 040	KF-18040
50	VSI 040	KF-41040050	VAS 050	VASI 050	KF-19050SCTA	VCB 050 NE	-	VPE 050	VPEI 050	KF-18050
63	VSI 063	KF-41063080	VAS 063	VASI 063	KF-19063SCTA	VCB 063 NE	-	VPE 063	VPEI 063	KF-18063
80	VSI 063	KF-41063080	VAS 080	VASI 080	KF-19080SCTA	-	-	-	-	-

Ø	ANGLE BRACKET		CLEVIS BRACKET POST. MALE		FRONT/REAR FLANGES		RM - ISO INTERMEDIATE HINGE		SQUARE JOINT WITH DIN648K ARTICULATED HEAD	
										
	Steel	Steel	Aluminium	Aluminium	Steel	Steel			Steel	Steel
	Aignep	Univer	Aignep	Univer	Aignep	Univer	Aignep	Univer	Aignep	Univer
25	QCP 025	RPF-13025	QCM 025	RPF-11025	QFL 025	RPF-12025				
32	-	-	-	-	-	-	-	KDF-14032	VADZ 032 NE	KF-19032SC
40	-	-	-	-	-	-	-	RPF-14040	VADZ 040 NE	KF-19040SC
50	-	-	-	-	-	-	-	RPF-14050	VADZ 050 NE	KF-19050SC
63	-	-	-	-	-	-	-	RPF-14063	VADZ 063 NE	KF-19063SC

Ø	Ø	MALE ROD ENDS	
			
		Steel	Steel
		Aignep	Univer
M6 x 1	25	TM 032	-
M8 x 1,25	32 - 40	TM 050	-
M10 x 1,25	50 - 63	TM 080	-