



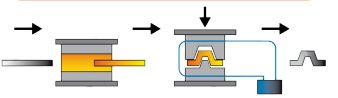


- ► Excellent protection against both liquid and solid pollution
- ► Facilitates having gas springs working in any position
- ► Cost savings

i
MICRO
TITAN
TPH
TPS
TPSP
TPF
TPK
TPC
TPR
TPB
TPHC
TPA
TPG
TPCT
TPSL
STOP CYLINDER
STOP CYLINDER
TPSR
TPSRS
TPNS
TPHT

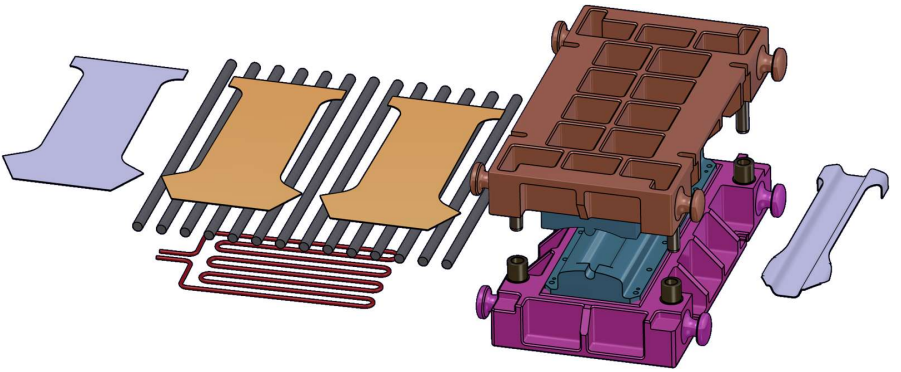
Due to the increasingly frequent use of high-elastic-limit steels in hot forming processes in the automobile industry, and to the consequent increase in demand for gas springs working under adverse enviromental conditions, the **TECAPRES** research team has studied, designed and subsequently developed a range of specific products for both liquid and solid extreme pollution mechanic enviromental conditions.

HOT STAMPING









- ✓ **Sealed rod protection cup**
- ✓ **Surfaces protected against corrosion in metal components**
- ✓ **Designed to work in any position**
- ✓ **VDI safety features**





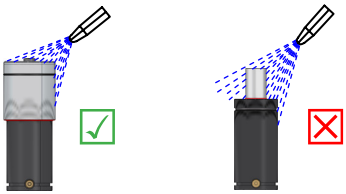
ROD-PROTECTION CAP

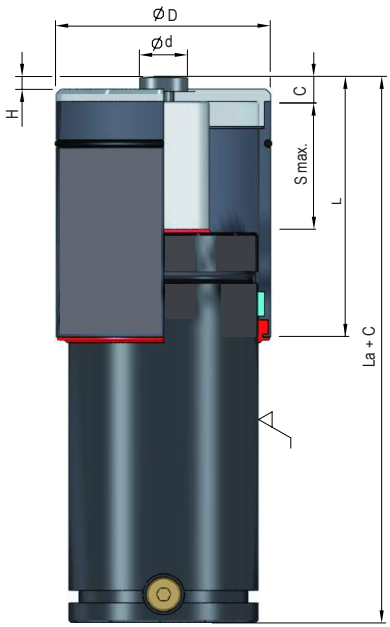
TECAPRES offers the possibility of incorporating this device onto TPS and MICRO series gas springs in order to protect rods.

This is particularly recommendable in those cases in which where there are extreme pollution or corrosive working enviroments, in order to ensure proper functioning of gas springs, thus guaranteeing a longer service life.



- ✓ Excellent protection against both liquid and solid pollution
- ✓ Excellent protection in corrosive working enviroments
- ✓ It facilitates having the gas spring working in any position
- ✓ Cost savings.
- ✓ Surface protection against corrosion in metal components.





Gas spring	Smax mm	ØD mm	Ød mm	L mm	C mm	H mm
TPS 750	100% Smax	60	22.5	44 + S	10	5
MICRO 50VS	Smax (-4)	60	22.5	36 + S	10	5
MICRO 63V	Smax (-4)	74	22.5	43 + S	10	5
TPS 1500.1	100% Smax	86	35	53 + S	11	5
MICRO 75.1	100% Smax	86	35	42 + S	11	5
TPS 3000	100% Smax	106	35	58 + S	13	5
MICRO 95	Smax (-4)	106	35	56 + S	13	5
TPS 5000	100% Smax	136	35	65 + S	15	5
MICRO 120V	Smax (-4)	136	35	61.5 + S	15	5

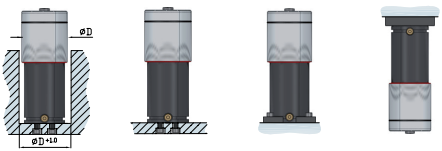
Please check the Smax specification for each model in the catalogue (Other models under order)

How to order

TPS 3000 (Model) **x** **100** (Stroke) **RP** (With rod-protection)

Assembly possibilities

Follow guidelines Page 287



DROP-IN SCREWS FP FLANGE FB FLANGE

SHIELD-SCRAPER

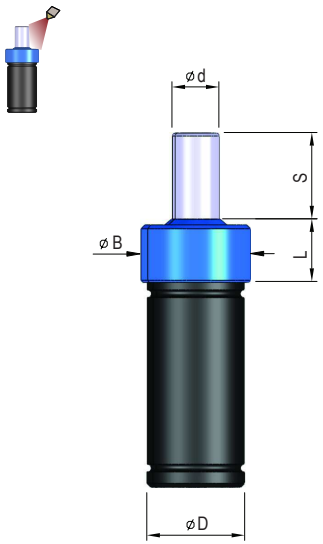
The function of the shield-scraper is to avoid penetration of particles and substances inside the cylinder, like liquids, metal specks, impurities, etc, thus significantly lengthening gas spring useful life when it is working in highly-polluted conditions.

This cleaning function is attained thanks to an over-dimensioning of diameters, which ensures a tight fit of the scraper onto the cylinder wall.

This polyurethane shield-scraper provides a technically clean tight fit on the stem. Besides, the cleaning lip allows for excess lubricant to seep out from the inside of the gas spring.



- ✓ Excellent protection against both liquid and solid pollution with medium incidence
- ✓ Simple assembly in the gas spring (page 308)
- ✓ It facilitates having the gas spring working in any position
- ✓ Cost savings
- ✓ Minimal loss of working stroke length
- ✓ Compatible with all kind of flanges



Code	Gas spring code	Ød mm	ØD mm	S mm	L mm	ØB mm
RE-6-12	TPC 12	6	12	Smax (-3)	13	14,8
RE-6-14	TPC 14	6	14	Smax (-3)	13	16,8
RE-8-15	MICRO 15	8	15	Smax (-3)	13	17,8
RE-8-19	TPC 19.1	8	19	Smax (-3)	13	21,9
RE-11-19	MICRO 19V1	11	19	Smax (-3)	13	21,9
RE-12-25	TPF 420	12	25	Smax (-2,5)	16,5	28,8
	TPC 25			Smax (-2,5)	16,5	28,8
	TPCT 25			Smax (-2,5)	16,5	28,8
	TPA 25			Smax (-2,5)	16,5	28,8
	TPG 25			Smax (-4,5)	16,5	28,8
RE-14-25	MICRO 25	14	25	Smax (-2,5)	16,5	29,0
	MICRO 25H			Smax (-2,5)	16,5	29,0
	MICRO 25R			Smax (-2,5)	16,5	29,0
RE-15-25	MICRO 25V1	15	25	Smax (-2,5)	16,5	29,0
RE-16-32	MICRO 32VS	16	32	Smax (-4,0)	16,0	36,4
	MICRO 32V			Smax (-4,0)	16,0	36,4
	MICRO 32C			Smax (-4,0)	16,0	36,4
	TPSP 300.1			Smax (-4,0)	16,0	36,4
	TPKR 32			Smax (-3,0)	16,0	36,4
	TPKN 32			Smax (-3,0)	16,0	36,4
	TPCT 300			Smax (-3,0)	16,0	36,4
	TPG 32			Smax (-4,0)	16,0	36,4
RE-18-32	MICRO 32	18	32	Smax (-4,0)	18,0	36,4
	MICRO 32R			Smax (-4,0)	18,0	36,4
	MICRO 32H			Smax (-4,0)	18,0	36,4
	TITAN 32			Smax (-4,0)	18,0	36,4
	TPF 750			Smax (-3,0)	18,0	36,4
	TPK 32			Smax (-3,0)	18,0	36,4
	TPC 350.1			Smax (-3,0)	18,0	36,4
	TPGP 32			Smax (-4,0)	18,0	36,4

How to order

TPC 25 x 50 RE BL

Model | Stroke | With Shield-scraper | Color code

GAS SPRING WITH SHIELD SCRAPER

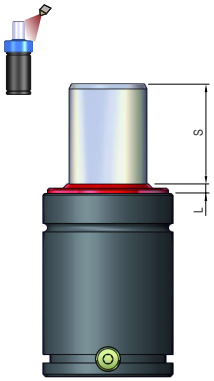
RE-12-25

Code

ONLY SHIELD SCRAPER

Please check the Smax specification for each model in the catalogue
(Other models under order)

SHIELD-SCRAPER



How to order

MICRO 63V x 75 RE

- MICRO 63V — Model
- 75 — Stroke
- RE — With Shield-scraper

GAS SPRING WITH SHIELD-SCRAPER

RE-36-50

- RE-36-50 — Code

ONLY SHIELD-SCRAPER

MICRO 95 x 50 CR RE

- MICRO 95 — Model
- 50 — Stroke
- CR — With chromed stem
- RE — With Shield-scraper

GAS SPRING WITH SHIELD-SCRAPER AND CHROMED STEM TO PROTECT AGAINST CORROSION

Please check the Smax specification for each model in the catalogue (Other models under order)

- ✓Excellent protection against both liquid and solid pollution with medium incidence
- ✓ Simple assembly in the gas spring (page 308)
- ✓ It makes it possible to have gas springs working in any position
- ✓ Cost savings.
- ✓ Compatible with all kinds of flanges
- ✓ (CR) optional chromed stem.



Code	Gas spring code	L mm	S mm
RE-15-32	TPS 250	4,5	Smax (-4,5)
RE-20-32	MICRO 38V MICRO 38VS MICRO 38C TPSP 500.1 TPR 38.1	4,5	Smax (-4,5)
RE-20-35	TPS 500.2 TPKF 500	4,5	Smax (-4,5)
RE-22-32	MICRO 38 MICRO 38R MICRO 38H TITAN 38 TPK 600 TPC 500 TPCR 500 TPCT 500 TPG 500	4,5	Smax (-4,5)
RE-25-35	MICRO 45 MICRO 45V MICRO 45C MICRO 45CF TPSP 750 TPKS 750 TPR 45	5,0	Smax (-5,0)
RE-25-40	TPS 750 TPKF 750	5,0	Smax (-5,0)
RE-28-38	TITAN 45	5,0	Smax (-5,0)
RE-28-40	MICRO 50VS MICRO 50CS MICRO 50CF TPSP 1000.1 TPKFR 1000	5,0	Smax (-5,0)
RE-28-40.1	MICRO 50.1	5,0	Smax (-5,0)
RE-30-40	TPKS 1000 TPC 1000 TPSP 1000.1 TPR 50 MICRO 50V MICRO 50C.1	5,0	Smax (-5,0)
RE-32-43	TITAN 50	5,5	Smax (-5,5)
RE-36-50	MICRO 63V MICRO 63CF MICRO 63C TPK 1500.1 TPKN 1500 TPC 1500 TPSP 1500	6,0	Smax (-6,0)
RE-36-63	TPS 1500.1	6,0	Smax (-6,0)
RE-40-55	MICRO 63	5,5	Smax (-5,5)
RE-42-55	TITAN 63	5,5	Smax (-5,5)
RE-45-63	MICRO 75.1 TPSP 2400 TPKFR 2400	6,0	Smax (-6,0)
RE-45-65	MICRO 75CF MICRO 75CS TPK 2500 TPC 2500 TPMCS 1500 TPSB 1500 TPMCS 2400 TPSB 2400	7,5	Smax (-7,5)
RE-50-65	TPK 3000 TITAN 75 TPC 3000 TPCT 2500 TPCT 3000	7,5	Smax (-7,5)
RE-50-80	TPS 3000 TPKF 3000	7,5	Smax (-7,5)
RE-60-80	MICRO 95 TPKFR 4200 TPK 4250 TPC 4000 TPCT 5000 TPSP 4200 TPMCS 3000 TPSB 3000 TPMCA 4500 TPSB 4000	7,5	Smax (-7,5)
RE-65-100	TPS 5000	6,0	Smax (-6,0)
RE-75-100	MICRO 120V MICRO 120.1 TPC 6500 TPSP 6600 TPMCA 6500 TPSB 6000	6,0	Smax (-6,0)
RE-80-125	TPS 7500	7,5	Smax (-7,5)
RE-90-125	MICRO 150 TPC 10000	7,5	Smax (-7,5)

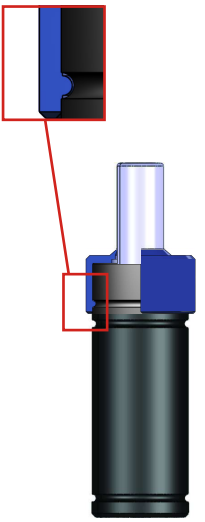
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Select the correct gas spring and the SHIELD-SCRAPER model.



Introduce the SHIELD-SCRAPER into the stem.

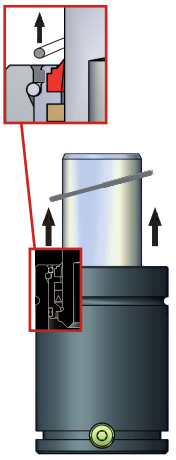


Press the SHIELD-SCRAPER into the correct position.

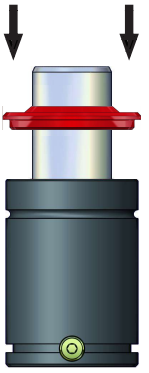
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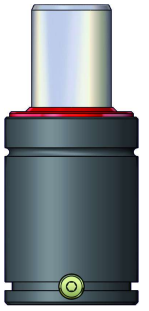
Select the correct gas spring and the SHIELD-SCRAPER model.



Remove the dust cover o-ring.



Introduce the SHIELD-SCRAPER into the stem.



Press the SHIELD-SCRAPER to the correct position.