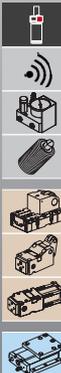




- ▶ Excellent protection against both liquid and solid pollution
- ▶ Facilitates having gas springs working in any position
- ▶ Cost savings



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MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP
CYLINDER

STOP
CYLINDER

TPSR

TPSRS

TPNS

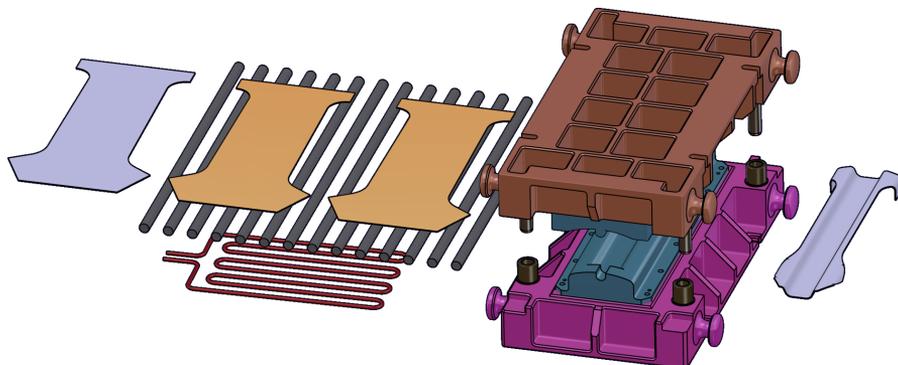
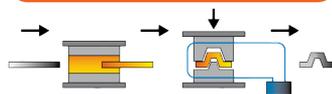
TPHT



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 environmental conditions, the **TECAPRES** research team has studied, designed and subsequently developed a range of specific products for both liquid and solid extreme pollution mechanic environmental conditions.



HOT STAMPING



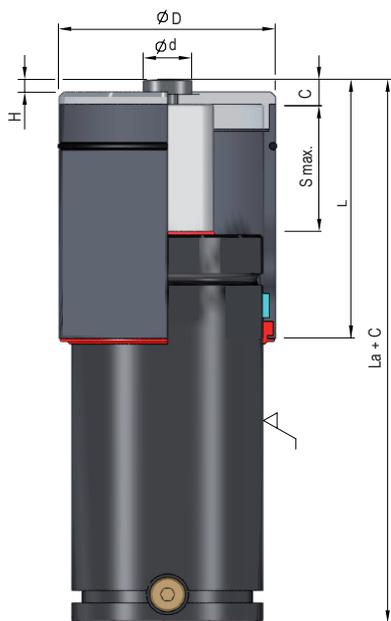
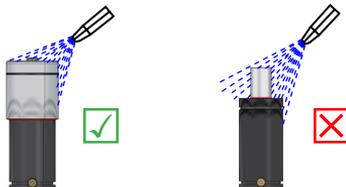
- ✓ Sealed rod protection cup
- ✓ Surfaces protected against corrosion in metal components
- ✓ Designed to work in any position
- ✓ VDI safety features



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 there are extreme pollution or corrosive working environments, 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 environments
- ✓ It facilitates having the gas spring working in any position
- ✓ Cost savings.
- ✓ Surface protection against corrosion in metal components.



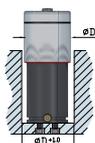
Gas spring	Smax mm	ØD mm	Ød mm	L mm	C mm	H mm
TPS 750	100% Smax	60	22.5	44 + S	10	5
MICRO 50VS	Smax (-4)	60	22.5	36 + S	10	5
MICRO 63V	Smax (-4)	74	22.5	43 + S	10	5
TPS 1500.1	100% Smax	86	35	53 + S	11	5
MICRO 75.1	100% Smax	86	35	42 + S	11	5
TPS 3000	100% Smax	106	35	58 + S	13	5
MICRO 95	Smax (-4)	106	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	x	100	RP
Model		Stroke	With rod-protection

Assembly possibilities



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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.

MICRO

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

TITAN

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.

TPH

✓ Excellent protection against both liquid and solid pollution with medium incidence

TPS

✓ Simple assembly in the gas spring (page 308)

TPSP

✓ It facilitates having the gas spring working in any position

TPF

✓ Cost savings

TPK

✓ Minimal loss of working stroke length

TPC

✓ Compatible with all kind of flanges

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP CYLINDER

STOP CYLINDER

TPSR

TPSRS

TPNS

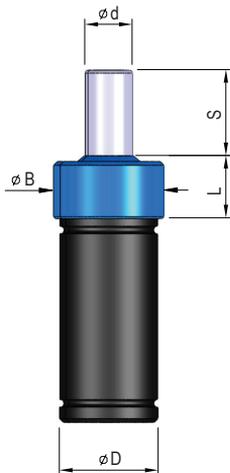
TPHT

TPHT

TPHT

TPHT

TPHT



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
	MICRO 32VS			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
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

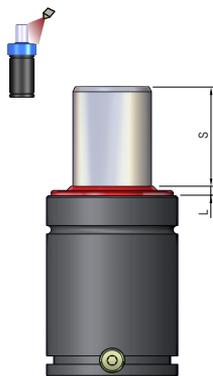
TPC 25 x 50 RE BL
 Model Stroke With Shield-scraper Color code
 GAS SPRING WITH SHIELD SCRAPER

RE-12-25

Code

ONLY SHIELD SCRAPER

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



How to order

MICRO 63V x 75 RE

Model	Stroke	With Shield-scaper
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GAS SPRING WITH SHIELD-SCRAPER

RE-36-50

Code

ONLY SHIELD-SCRAPER

MICRO 95 x 50 CR RE

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





ASSEMBLY ILLUSTRATIONS · ILUSTRACIONES DE MONTAJE

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MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP
CYLINDER

STOP
CYLINDER

TPSR

TPSRS

TPNS

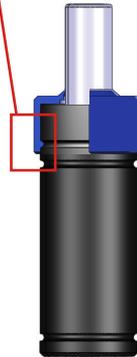
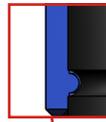
TPHT



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



Introduce the SHIELD-SCRAPER into the stem.

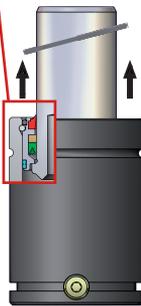
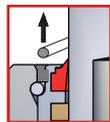


Press the SHIELD-SCRAPER into the correct position.

ASSEMBLY ILLUSTRATIONS · ILUSTRACIONES DE MONTAJE



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.